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JULY & AUGUST

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VOLUME 670

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# Official Gazette

## UNITED STATES PATENT OFFICE

Department of Commerce

SINCLAIR WEEKS, *Secretary*

U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

## Condition of Applications Under Examination at Close of Business June 19, 1953

Total number of patent applications awaiting action, 98,656. Date of oldest new application, September 10, 1952; date of oldest amended application, September 10, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| *(C. E. D.) KEELY, J. E. | | | |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 9-16-52 | 9-15-52 | 1449 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 10-17-52 | 10-8-52 | 1109 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 10-29-52 | 10-28-52 | 1942 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 10-1-52 | 10-1-52 | 1463 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates. | 10-10-52 | 10-10-52 | 993 |
| 6. SURLE, H., Carbon Chemistry (part) | 9-10-52 | 9-12-52 | 2611 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 10-10-52 | 10-10-52 | 1620 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 10-9-52 | 10-6-52 | 1669 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 10-9-52 | 10-9-52 | 1230 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 10-22-52 | 10-20-52 | 1320 |
| 11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 10-4-52 | 10-8-52 | 1135 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 10-21-52 | 10-8-52 | 1214 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 9-11-52 | 9-10-52 | 1232 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 10-16-52 | 10-16-52 | 1447 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 9-22-52 | 9-22-52 | 1060 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 9-26-52 | 9-29-52 | 1634 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 9-27-52 | 9-29-52 | 1556 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 10-17-52 | 10-15-52 | 659 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 9-30-52 | 9-30-52 | 1185 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 10-20-52 | 10-16-52 | 1276 |
| 21. MADER, R. C., Textiles | 9-29-52 | 9-24-52 | 1309 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 10-14-52 | 10-11-52 | 959 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 9-23-52 | 9-20-52 | 851 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 11-25-52 | 11-15-52 | 1024 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 9-18-52 | 9-15-52 | 1281 |
| 26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 10-20-52 | 10-20-52 | 1851 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 10-7-52 | 10-7-52 | 1206 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 10-13-52 | 10-6-52 | 1092 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 9-24-52 | 9-27-52 | 1156 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 11-26-52 | 11-26-52 | 1320 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 9-20-52 | 9-22-52 | 2453 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-4-52 | 11-4-52 | 1237 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 10-1-52 | 10-1-52 | 1858 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 9-27-52 | 9-20-52 | 1245 |
| 35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles | 11-12-52 | 10-28-52 | 1155 |
| 36. McFADYEN, A. D., Measuring and Testing | 10-16-52 | 10-20-52 | 1070 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 10-23-52 | 11-4-52 | 1692 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 10-10-52 | 10-10-52 | 1543 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 12-4-52 | 11-25-52 | 1671 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 1-2-53 | 1-2-53 | 942 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | 10-18-52 | 10-16-52 | 1516 |

*Commissioner's Examiners' Division.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
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| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 9-30-52 | 9-27-52 | 1919 |
| 43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-1-52 | 10-1-52 | 1780 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 10-20-52 | 10-22-52 | 1323 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 9-29-52 | 9-19-52 | 1088 |
| 47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 10-1-52 | 9-29-52 | 1639 |
| 48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting. | 9-20-52 | 9-19-52 | 1889 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 10-20-52 | 10-8-52 | 1309 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 12-3-52 | 12-9-52 | 1568 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 9-30-52 | 9-27-52 | 1590 |
| 52. WHITNEY, F. L., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 11-7-52 | 11-10-52 | 1871 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 10-17-52 | 10-11-52 | 981 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications. | 10-7-52 | 10-6-52 | 1824 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 10-13-52 | 10-14-52 | 933 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 11-8-52 | 11-5-52 | 1268 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 10-27-52 | 10-16-52 | 1678 |
| 58. HOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittons. | 9-25-52 | 9-22-52 | 1394 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 10-15-52 | 10-17-52 | 1400 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 10-24-52 | 10-8-52 | 962 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 10-21-52 | 10-21-52 | 1198 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 9-30-52 | 9-25-52 | 1794 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 9-26-52 | 9-25-52 | 1810 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316). | | | |
| 66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales | 10-24-52 | 10-21-52 | 804 |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 10-13-52 | 10-15-52 | 1713 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 11-12-52 | 11-14-52 | 1414 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 10-7-52 | 10-6-52 | 1628 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 9-15-52 | 9-12-52 | 3325 |
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Total number of trade-mark applications awaiting action (including renewals and republications), 10,296. Date of oldest new application, January 27, 1953; date of oldest amended application, January 27, 1953.

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| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 1-27-53 | 1-27-53 | 2462 |
| II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 2-9-53 | 2-16-53 | 2427 |
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| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 2-9-53 | 2-7-53 | 2467 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107. | 1-30-53 | 1-30-53 | 2162 |

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Adco Limited, London and Harpenden, England. Compost activators and accelerating materials and fertilising materials. Serial No. 637,102, July 7. Class 10.

Aktiebolaget Leo, Helsingborg, Sweden. Pharmaceutical preparations. Serial No. 638,681, July 7. Class 18.

American Anthracite & Bituminous Coal Corporation, New York, N. Y. Coal. Serial No. 639,147, July 7. Class 1.

American Chicle Company, Long Island City, N. Y. Medicated chewing gum. Serial No. 637,980, July 7. Class 18.

American Lecithin Co. Inc., New York and Woodside, N. Y. Dietary supplements. Serial No. 627,659, July 7. Class 18.

American-Marietta Company, Chicago, Ill. Paint. Serial No. 640,995, July 7. Class 16.

Anesite Company, Chicago, Ill. Pipe and pipe fittings. Serial No. 640,422, July 7. Class 13.

Ansul Chemical Company, Marinette, Wis. Coil-flushing gun. Serial No. 639,600, July 7. Class 23.

Antell, Charles, Inc., Baltimore, Md. Shampoo. Serial No. 636,760, July 7. Class 52.

Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Fatty alcohols. Serial No. 631,139, July 7. Class 6.

Argie Brian Cosmetics: *See*—
Nathanson, Esther A.

Ariens Company, Brillion, Wis. Wheeled, motor operated tillage machine. Serial No. 639,732, July 7. Class 23.

Associated Manufacturers International Corporation, Chicago, Ill. Agricultural equipment. Serial No. 619,225, July 7. Class 23.

Ateliers de la Motobecane, Pantin (Seine), France. Motorcycles. Serial No. 617,072, July 7. Class 19.

Attorney General of the United States, Office of Alien Property, Department of Justice, Washington, D. C. Seasoning. Serial No. 587,461, July 7. Class 46.

Babcock, V. S., doing business as V. S. Babcock Sales Co., San Francisco, Calif. Pest control pads—namely, chemically treated pads for killing insects. Serial No. 630,570, July 7. Class 6.

Babcock, V. S., Sales Co.: *See*—
Babcock, V. S.

Baker Castor Oil Company, The, Jersey City, N. J., and New York, N. Y. Aliphatic alcohol esters of ricinoleic acid which are used as upper cylinder lubricants. Serial No. 621,446, July 7. Class 15.

Bally Manufacturing Company, Chicago, Ill. Coin-controlled amusement device. Serial No. 640,063, July 7. Class 22.

Barbara Diane, New York, N. Y. Insulated heat-retaining baby-bottle zipper bags. Serial No. 641,540, July 7. Class 2.

Baxter Laboratories, Inc., Morton Grove, Ill. Parenteral solutions. Serial No. 640,901, July 7. Class 18.

Belrug Mill, Inc., Greenville, S. C., now by change of name, Belrug Mills of South Carolina. Foam rubber pads or mats. Serial No. 631,598, July 7. Class 50.

Belrug Mills of South Carolina: *See*—
Belrug Mill, Inc.

Bensdorp N. V., Bussum, Netherlands. Cocoa. Serial No. 613,154, July 7. Class 46.

Bert Mills Corporation, The, Lombard, Ill. Coffee vending machine. Serial No. 605,250, July 7. Class 23.

Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y. Vacuum bottles. Serial No. 637,814, July 7. Class 2.

Binswanger & Co., Incorporated, Richmond, Va. Double hung windnw units. Serial No. 632,591, July 7. Class 12.

Bond-Howell Lumber Company, assignor to Con-Dor Corporation of America, Jacksonville, Fla. Packaged door units. Serial No. 635,681, July 7. Class 12.

Booth Radio & Television Stations, Inc., Detroit, Mich. Radio program broadcasting. Serial No. 627,800, July 7. Class 104.

Borden Company, The, New York, N. Y. Butter. Serial No. 638,398, July 7. Class 46.

Borden Company, The, New York, N. Y. Epoxide resin for glues. Serial No. 642,342, July 7. Class 5.

Bostrom, Gustav J., doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Open-type flooring. Serial No. 557,724, July 7. Class 12.

Boatwick Laboratories, Inc., Bridgeport, Conn. Shaving cream. Serial No. 628,187, July 7. Class 51.

Brach, E. J., & Sons, Chicago, Ill. Candy. Serial No. 643,277, July 7. Class 46.

Brenner, Alexander E., Columbus, Ohio. Portable fire extinguishers. Serial No. 585,697, July 7. Class 23.

Broil-Away Corporation, Venice, Fla. Disposable broiling pan. Serial No. 638,686, July 7. Class 13.

Butterworth System, Incorporated, Bayonne, N. J. Tank cleaning machines. Serial No. 589,422, July 7. Class 23.

Cafa-Roll, Inc., Carthage, Mo. Electrically driven apparatus comprising a continuous conveyor belt, etc. Serial No. 634,681, July 7. Class 23.

California Tax Agency: *See*—
California Tax and Assessment Corporation of San Francisco.

California Tax and Assessment Corporation of San Francisco, doing business under the firm name and style of California Tax Agency, San Francisco, Calif. Services rendered to insurance companies, etc. Serial No. 605,892, July 7. Class 101.

Campbell, Henry C., doing business as El-Bo-Ex Company, Skaneateles, N. Y. Polishing powder. Serial No. 637,264, July 7. Class 4.

Carolina Mirror Corporation, North Wilkesboro, N. C. Wall and furniture mirrors. Serial No. 638,062, July 7. Class 32.

Casco Products Corporation, Bridgeport, Conn. Wire wheel hubs. Serial No. 644,010, July 7. Class 19.

Caterpillar Tractor Co., Peoria, Ill. Toy replicas of wheel tractors, track-type tractors, bulldozers, etc. Serial No. 637,111, July 7. Class 22.

Center Products Co.: *See*—
Snyder, Dora C.

Cheatham Chemical Company, Atlanta, Ga. Perfumes, bay rum, hair dressings, etc. Serial No. 635,348, July 7. Class 51.

Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Polyvinyl alcohol. Serial No. 641,247, July 7. Class 6.

Cherry-Burrell Corporation, Chicago, Ill. Automatic and hand operated bottle filling and capping machinery. Serial No. 638,938, July 7. Class 23.

Citra Products: *See*—
Forster, Irving A.

Clark Bros. Co., Inc., assignor to Dresser Operations, Inc., Olean, N. Y. Centrifugal compressors, axial flow compressors, gas turbines, etc. Serial No. 610,246, July 7. Class 23.

Clark Equipment Company, Buchanan, Mich. Power operated fork trucks. Serial No. 633,660, July 7. Class 23.

Columbia-Bedford Corporation, New York, N. Y. Lubricating oil. Serial No. 637,864, July 7. Class 15.

Columbia Protektosite Company, Inc., Carlstadt, N. J. Sun glasses. Serial No. 624,228, July 7. Class 26.

Columbia River Packers Association, Inc., Astoria, Oreg. Canned, fresh, and frozen fish. Serial No. 640,671, July 7. Class 46.

Conant Bros. Company: *See*—
Lewis, Stanley M.

Con-Dor Corporation of America, assignee: *See*—
Bond-Howell Lumber Company.

Consolidated Cosmetics, Chicago, Ill. Shampoo. Serial No. 642,526, July 7. Class 52.

Continental Copper & Steel Industries, Inc., New York, N. Y., and Perth Amboy, N. J. Lifeboats. Serial No. 620,871, July 7. Class 19.

Cossman, Donald E., doing business as Parfums Donat, Chicago, Ill. Cologne and perfume. Serial No. 626,983, July 7. Class 51.

Cowles Company, The, Cayuga, N. Y. Slushing, defiberling, and refining machine. Serial No. 630,763, July 7. Class 23.

Crown Cork & Seal Company, Inc., Baltimore, Md. Container caps. Serial No. 602,931, July 7. Class 50.

Crown Zellerbach Corporation, San Francisco, Calif. Waxed paper bags. Serial No. 642,390, July 7. Class 2.

Dairypak, Incorporated, Cleveland, Ohio. Paper cartons. Serial No. 637,866, July 7. Class 2.

Daniel Feed and Seed Co., Douglas, Ga. Fresh eggs. Serial No. 636,882, July 7. Class 46.

Davidson Corporation, Chicago, Ill. Small unwoven cellulose pads. Serial No. 631,150, July 7. Class 29.

Davis, Dorothea A., Wilmette, Ill. Face powder, perfumes, lipsticks, etc. Serial No. 627,867, July 7. Class 51.

Deerfield Groves Company, Wabasso, Fla. Fresh citrus fruits. Serial No. 641,370, July 7. Class 46.

Dehymel, Leo B., Pasadena, Calif. Cookies. Serial No. 633,491, July 7. Class 46.

Detroit Gasket & Manufacturing Company, Detroit, Mich. Metal sheets intended for making gaskets. Serial No. 640,502, July 7. Class 35.

Diversey Corporation, The, Chicago, Ill. Combination package of a moth repellent closet deodorant. Serial No. 603,772, July 7. Class 6.

Dresser Operations, Inc., assignee: *See*—
Clark Bros. Co., Inc.

Drew, E. F., & Co., Inc., New York, N. Y. Mixture of detergents. Serial No. 630,834, July 7. Class 52.

Drink-O-Tap: *See*—
Kra-Mag Products.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Thin, transparent sheeting of cellulosic composition and thin, translucent sheeting of cellulosic composition. Serial No. 631,476, July 7. Class 1.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Motion picture projectors, and projection screens. Serial No. 640,788, July 7. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film, sensitized photographic paper, sensitized photographic plates, etc. Serial No. 640,922, July 7. Class 26.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film, sensitized motion-picture film, etc. Serial No. 640,923, July 7. Class 26.

El-Bo-Ez Company: *See*—
Campbell, Henry C.

Ellis Popcorn Company, The, Murray, Ky. Packaged, unpopped popcorn. Serial No. 630,652, July 7. Class 46.

Elna Brands, Inc., Chicago, Ill. Dog food. Serial No. 644,398, July 7. Class 46.

Emco Cement Products, Inc., Paxinos, Pa. Mixture of sand, cement waterproofing agent, hardener, and mineral coloring to be used in making artificial building stone. Serial No. 636,225, July 7. Class 12.

Eterne Manufacturing Corporation, New York, N. Y. Hair tints. Serial No. 620,777, July 7. Class 51.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Resinous composition. Serial No. 630,484, July 7. Class 6.

Exomet, Incorporated, Conneaut, Ohio. Exothermic compound. Serial No. 643,034. July 7. Class 6.

Extraction and Chemical Company, Inc., New York, N. Y. Toilet water. Serial No. 634,529, July 7. Class 51.

Fabergé, Inc., New York, N. Y. Soap. Serial No. 640,152, July 7. Class 52.

Federal Products Corporation, Providence, R. I. Dial gages. Serial No. 636,169, July 7. Class 26.

Federated Department Stores, Inc., Cincinnati, Ohio. Hair driers, electric heating pads, manicure scissors and syringes. Serial No. 634,936, July 7. Class 44.

Feedstuffs Processing Company, Oakland, Calif. Mineral supplement. Serial No. 626,939, July 7. Class 18.

Ferguson, J. L., Company, Joliet, Ill. Packaging machinery, container opening apparatus, container loading apparatus, etc. Serial No. 527,493–4, July 7. Class 23.

Ferro Corporation, Cleveland, Ohio. Friable glass-like substances in finely divided form containing essential plant foods for use as a fertilizer. Serial No. 626,027, July 7. Class 10.

Finch, H. G., Rocky Mount, N. C. Venetian blinds. Serial No. 638,293, July 7. Class 32.

Fleming Co., Incorporated, The, Topeka, Kans. Coffee. Serial No. 635,529, July 7. Class 46.

Forrest, Fred F., trading and doing business as Forrest's Greenhouses, Waxahachie, Tex. Chemical compound. Serial No. 618,350, July 7. Class 6.

Forrest's Greenhouses: *See*—
Forrest, Fred F.

Forster, Irving A., doing business under the name of Citra Products, Chicago, Ill. Antiacid analgesic tablets. Serial No. 627,679, July 7. Class 18.

G. B. Products, Inc., Utica, N. Y. Sweet-spread for bread, toast, muffins, etc. Serial No. 622,256, July 7. Class 46.

Gairee Products Company, Inc., New York, N. Y. Room deodorant. Serial No. 622,648, July 7. Class 6.

Gairee Products Company, Inc., New York, N. Y. Insecticides. Serial No. 622,889 July 7. Class 6.

General Dyestuff Corporation, New York, N. Y. Composition of solvents and detergents. Serial No. 642,812, July 7. Class 52.

General Electric Company: *See*—
General Electric X-Ray Corporation.

General Electric X-Ray Corporation, Milwaukee, Wis., now by merger General Electric Company. Leasing of electrical equipment. Serial No. 589,309, July 7. Class 100.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Motion picture cameras, motion picture film processors, etc. Serial No. 635,762, July 7. Class 26.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Motion picture cameras, motion picture film processors, etc. Serial No. 635,961, July 7. Class 26.

Gerber Products Company, Fremont, Mich. Baby cosmetics. Serial No. 627,332, July 7. Class 51.

Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Metal cutting tools, generally boring tools, and block-type cutters; etc. Serial No. 618,740, July 7. Class 23.

Gilbert & Bennett Mfg. Co., The, Georgetown, Conn. Welded galvanized wire mesh fabric. Serial No. 632,205, July 7. Class 13.

Gladding, B. F., & Company, Inc., South Otselic, N. Y. Fishing lines. Serial No. 645,980–1, July 7. Class 22.

Globe-Wernicke Co., The, Cincinnati, Ohio. Steel desks, steel tables, steel constumers, etc. Serial No. 590,151, July 7. Class 32.

Goldtone Razor Blade Co., Inc., Newark, N. J. Razor blades. Serial No. 583,433, July 7. Class 23.

Goodrich, B. F., Company, The, Akron, Ohio. Buckets. Serial No. 582,294, July 7. Class 2.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Coated and impregnated fabrics. Serial No. 582,297, July 7. Class 42.

Gordon Chemical Co., Inc., Kansas City, Mo. Liquid wood preservative. Serial No. 626,503, July 7. Class 6.

Gottfried, Paul M., doing business under the name Paulen Chemical Company, Berwyn, Md. Detergent. Serial No. 640,337, July 7. Class 52.

Graton & Knight Company, Worcester, Mass. Leather belt dressing and conditioner. Serial No. 631,286, July 7. Class 6.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Candy. Serial No. 642,347, July 7. Class 46.

Great Lakes Carbon Corporation, New York, N. Y. Expanded perlite. Serial No. 614,624, July 7. Class 12.

Great Lakes Carbon Corporation, New York, N. Y. Filter aids. Serial No. 635,765, July 7. Class 31.

Greif Bros. Cooperage Corporation, The, Delaware, Ohio. Barrels, boxes, drums, etc. Serial No. 623,461, July 7. Class 2.

Gribben, Walter, Los Angeles, Calif. Characters of relatively thin flexible material in the nature of plastic letters and numerals. Serial No. 625,418, July 7. Class 50.

Haering, Goldach: *See*—
Haering, Hans J.

Haering, Hans J., doing business as Haering, Goldach, Saint Gall, Switzerland. Cosmetic preparations. Serial No. 629,383, July 7. Class 51.

Hansen Manufacturing Company, Incorporated, Princeton, Ind. Small direct current electric motors. Serial No. 630,710, July 7. Class 21.

Hardesty, W. C., Co., Inc., New York, N. Y. Double distilled animal fatty acids, double distilled corn oil fatty acids, etc. Serial No. 639,114, July 7. Class 6.

Harris, D. P., Hardware & Manufacturing Co., Inc., New York, N. Y. Children's bicycles. Serial No. 524,979, July 7. Class 22.

Harting, Wesley A., doing business as United States Soft Water Company, Kansas City, Mo. Water softener. Serial No. 635,363, July 7. Class 31.

Hartz Mountain Products, New York, N. Y. Bird feeds. Serial No. 625,798, July 7. Class 46.

Healthways, Los Angeles, Calif. Swivels for overhead suspension of punching bags. Serial No. 624,487, July 7. Class 22.

Hemphill Company, Pawtucket, R. I. Textile knitting machines and parts thereof. Serial No. 623,713, July 7. Class 23.

Henning Electric Motor Co.: *See*—
Henning, Frederick E.

Henning, Frederick E., doing business as Henning Electric Motor Co., Fargo, N. Dak. Earth drilling augers. Serial No. 631,930, July 7. Class 23.

Hercules Powder Company, Wilmington, Del. Cellulose gum. Serial No. 637,312, July 7. Class 1.

Heritage Furniture, Inc., High Point, N. C. Furniture. Serial No. 497,309, July 7. Class 32.

Hilker & Bietsch Company, Chicago, Ill., and Cincinnati, Ohio. Pancake flour, bran muffin mix, biscuit mix, etc. Serial No. 646,631, July 7. Class 46.

Hixon-Peterson Lumber Company, Toledo, Ohio. Lumber, millwork, wooden flooring, etc. Serial No. 636,293, July 7. Class 12.

Hoak Packing Company, Inc., Fresno, Calif. Fresh grapes. Serial No. 633,364, July 7. Class 46.

Hobson, J. H., Company, Philadelphia, Pa. Food coating. Serial Nos. 639,051–2, July 7. Class 46.

Honey Bear Farm: *See*—
Krafft, Julia S.

House of Stuart Incorporated, The, Newark, N. Y. Antiseptic foot powder. Serial No. 605,258, July 7. Class 18.

Hunneman, William C., Jr., Philadelphia, Pa. Device consisting of a combination of rollers for massaging tired feet. Serial No. 643,162, July 7. Class 44.

I. D. Company, New York, N. Y. Decorated metallic receptacles. Serial No 611,227, July 7. Class 13.

Illes, A. E., Company, Dallas, Tex. Syrup. Serial No. 632,087, July 7. Class 46.

Imperial Chemical Industries Limited, London, England. Chemicals and chemical substances. Serial No. 594,778, July 7. Class 6.

Indian Trail Ranch, Inc., West Palm Beach, Fla. Agricultural materials. Serial No. 635,477, July 7. Class 1.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Lubricating oils. Serial No. 612,497, July 7. Class 15.

Insulation Manufacturing Company, Inc., Brooklyn, N. Y. Molded plastic tops for tables, desks and counters. Serial No. 623,193, July 7. Class 32.

International Silver Company, The, Meriden, Conn. Stainless steel flatware. Serial No. 632,786, July 7. Class 23.

Jackson & Church Company, Saginaw, Mich. Heating furnaces. Serial No. 622,498, July 7. Class 34.

Jackson & Walton, Modesto, Calif. Fresh deciduous fruits and fresh vegetables. Serial No. 645,486, July 7. Class 46.

Johnson & Johnson, New Brunswick, N. J. Bandages. Serial No. 643,963, July 7. Class 44.

Justi, H. D., & Son, Inc., Philadelphia, Pa. Artificial teeth. Serial No. 632,251, July 7. Class 44.

Juvenile Shoe Corporation of America, The, Aurora, Mo. Tanned leather. Serial No. 607,252, July 7. Class 1.

K & L Drug Company: *See*—
Kornfield, Sanford.

Katlen, Jessie, doing business as Roo-Amin Co., Rochester, N. Y. Medicinal tablets. Serial No. 637,710, July 7. Class 18.



Kemp, E. F., Corp., Somerville and Winter Hill, Somerville, Mass. Salted nuts. Serial No. 639,939, July 7. Class 46.

Kiefer, Augustine J., doing business as Kiefer Manufacturing Co., Pittsburgh, Pa. Storm windows, storm doors, window screens, etc. Serial No. 622,262, July 7. Class 12.

Kiefer Manufacturing Co.: *See*—
Kiefer, Augustine J.

Kimura, Minoru, Seattle, Wash. Canned mandarin oranges. Serial No. 639,430, July 7. Class 46.

Kirby, Herbert R., doing business as Kirby Industries, Temple City, Calif. Roofing mops and mop-like applicators. Serial No. 629,611, July 7. Class 29.

Kirby Industries: *See*—
Kirby, Herbert R.

Kolmer Laboratories: *See*—
Lovely, Sanford.

Kornfield, Sanford, doing business under the name and style of K & L Drug Company, Oakland, Calif. Vaginal suppositories. Serial No. 627,266, July 7. Class 18.

Krafft, Julia S., doing business as Honey Bear Farm, Genoa City, Wis. Dolls. Serial No. 637,452, July 7. Class 22.

Kra-Mag Products, also trading as Drink-O-Tap, Baltimore, Md. Combination bottle cap and cup. Serial No. 523,525, July 7. Class 2.

Laminated Shim Company, Incorporated, Glenbrook, Conn. Shims. Serial No. 633,545, July 7. Class 35.

La Motoconfort, Pantin (Seine), France. Motorcycles. Serial No. 617,086, July 7. Class 19.

Landis Machine Company, Waynesboro, Pa. Cutter heads, thread-cutting machines, and cutters therefor, etc. Serial No. 567,637, July 7. Class 23.

Larco Nuclear Instrument Company: *See*—
Ruderman, Irving W.

Larus & Brother Company, Richmond, Va. Smoking tobacco. Serial No. 620,809, July 7. Class 17.

Lepetit S. p. A., Milan, Italy. Chemical-pharmaceutical products. Serial No. 618,586, July 7. Class 18.

Leslie Co., Lyndhurst, N. J. Diaphragm-operated valves, diaphragm-operated reducing valves, diaphragm-operated pilot regulating valves, etc. Serial No. 600,542, July 7. Class 23.

Les Parfums de Dana, Inc., New York, N. Y. Vanity cases, compacts, and lipstick holders. Serial No. 634,258, July 7. Class 2.

Les Parfums de Dana, Inc., New York, N. Y. Toilet soaps. Serial No. 634,259, July 7. Class 52.

Lever Brothers Company, New York, N. Y. Eau-de-cologne. Serial No. 628,407, July 7. Class 51.

Lewis, Stanley M., doing business as Conant Bros. Company, Somerville, Mass. Weighing scales. Serial No. 622,666, July 7. Class 26.

Libby, Arthur W., doing business under the name of Two Rivers Poultry Farms, Steep Falls, Maine. Hatching eggs and live baby chicks. Serial No. 636,132, July 7. Class 1.

Lien Chemical Company, Franklin Park, Ill. Powdered hand soap. Serial No. 610,696, July 7. Class 52.

Lien Chemical Company, Franklin Park, Ill. Self polishing floor wax. Serial No. 610,700, July 7. Class 4.

Lightner, Larry, Inc., Brownsville, Tex. Fresh citrus fruit. Serial No. 639,478, July 7. Class 46.

Litchfield Creamery Co., Litchfield, Ill. Butter. Serial No. 631,930, July 7. Class 46.

Lovely, Sanford, doing business as Kolmer Laboratories, Madison, Tenn. Solution for the temporary relief of minor simple earache. Serial No. 631,243, July 7. Class 18.

Lower, Ferol A., doing business as Pappy's Products, House Springs, Mo. Sassafras tea concentrate. Serial No. 636,240, July 7. Class 46.

Magnaflux Corporation, Chicago, Ill. Material for use in locating cracks and defects in porous bodies. Serial No. 624,959, July 7. Class 6.

Manufacturing Laboratories, Inc., Boston, Mass. Liquid soap. Serial No. 635,603, July 7. Class 52.

Marathon Corporation, Menasha, Wis. Laminated cardboard trays. Serial No. 636,241, July 7. Class 2.

Mattox and Moore, Inc., Indianapolis, Ind. Injectable estrogen-containing composition. Serial No. 626,039, July 7. Class 18.

Meridian Distributors: *See*—
Biddle Purchasing Company.

Milgram Food Stores, Inc., Kansas City, Mo. Bread, fresh, canned, and frozen fruits and vegetables. Serial No. 601,503, July 7. Class 46.

Milne-O'Berry Packing Co. Inc., St. Petersburg, Fla. Fresh oranges and grapefruit. Serial No. 636,856, July 7. Class 46.

Modern Sales Company, Los Angeles, Calif. Combination ice pick, bottle opener, seal breaker, etc. Serial No. 640,950, July 7. Class 23.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins and synthetic resinous compositions. Serial No. 627,309, July 7. Class 6.

Morris, E., Manufacturing Company, Detroit, Mich. Razor strops. Serial No. 512,521, July 7. Class 4.

Multnomah Plywood Corporation, Portland, Oreg. Plywood. Serial No. 633,315, July 7. Class 12.

Munising Wood Products Company, Inc., Chicago, Ill. Bowls, lazy Susans, trays, etc. Serial No. 627,302, July 7. Class 2.

Nathanson, Esther A., doing business under the name of Argle Brian Cosmetics, Washington, D. C. Cream shampoo and a liquid-cream shampoo. Serial No. 638,267, July 7. Class 52.

National Tuberculosis Association, New York, N. Y. Disseminating information concerning the causes, treatment and prevention of tuberculosis, etc. Serial No. 633,854, July 7. Class 100.

New England Overall Co. Inc., Boston, Mass. Dungarees. Serial No. 638,598, July 7. Class 39.

New England Overall Co, Inc., Boston, Mass. Women's and girls' dungarees. Serial No. 638,599, July 7. Class 39.

New Jersey Machine Corporation, Hoboken, N. J. Electrically operated, automatic machines. Serial No. 549,942, July 7. Class 23.

Northern Milling Company, Wausau, Wis. Formula mixed feeds. Serial No. 627,829, July 7. Class 46.

Northwest Plastics, Inc., St. Paul, Minn. Cigarette package dispensers. Serial No. 631,218, July 7. Class 2.

Northwestern Elevator & Mill Co., The, Mount Vernon and Toledo, Ohio. White wheat flour. Serial No. 588,449, July 7. Class 46.

Ocean Photo Supply Co., Inc., New York, N. Y. Cameras. Serial No. 640,956, July 7. Class 26.

Odell Company, Inc., The, Newark, N. J. Shampoo. Serial No. 643,045, July 7. Class 52.

Oswego Soy Products Corporation, Oswego, N. Y. Combination plant food and soil conditioner. Serial No. 641,635, July 7. Class 10.

Pacific Lubricants Company, Montebello, Calif. Lubricating oil additives. Serial No. 637,393, July 7. Class 15.

Pan American Trade Development Corp., New York, N. Y. Vehicle engine bearings and mufflers. Serial No. 605,867, July 7. Class 23.

Pappy's Products: *See*—
Lower, Ferol A.

Parfums Donat: *See*—
Cossman, Donald E.

Paulen Chemical Company: *See*—
Gottfried, Paul M.

Peerless Plastics, Culver City, Calif. Interior decorative wall tile. Serial No. 638,551, July 7. Class 12.

Perma-Stone Company, Columbus, Ohio. Casting of stone-like facings of a cementitious material. Serial No. 631,435, July 7. Class 103.

Personal Products Corporation, North Brunswick Township, N. J. Sanitary napkin belts. Serial No. 625,816, July 7. Class 44.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicaments. Serial No. 638,095, July 7. Class 18.

Pick, Albert, Hotella, Inc., Miami Beach, Fla. Restaurant services and providing lodgings for travelers. Serial No. 626,217, July 7. Class 100.

Piper Brace Co., Kansas City, Mo. Sacroiliac supports. Serial No. 642,088, July 7. Class 44.

Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Coal. Serial No. 637,461, July 7. Class 1.

Plas-Kem Corporation, Burbank, Calif. Plastic coating. Serial No. 641,206, July 7. Class 16.

Price Candy Company, Kansas City, Mo. Candy. Serial No. 627,701, July 7. Class 46.

Progressive Industries, Inc., Long Island City, N. Y. Spraying liquid plastic on wood, plaster, stucco, etc. Serial No. 630,381, July 7. Class 103.

Rand Rubber Company, Inc., Brooklyn, N. Y. Light controlling attachments for eyeglasses. Serial No. 619,950, July 7. Class 26.

Reed, Claude A., assignor to Whirl A-Whip, Inc., Omaha, Nebr. Frozen milk confection. Serial No. 580,429, July 7. Class 46.

Reefer-Gailer, Incorporated, New York, N. Y. Room deodorant. Serial No. 622,655, July 7. Class 6.

Reeves, Peter, Markets, Inc., New York, N. Y. Coffee and tea. Serial No. 628,875, July 7. Class 46.

Reflective Insulation Company, Detroit, Mich. Metallic insulation material. Serial No. 607,398, July 7. Class 12.

Regal Products Company, Inc., Chicago, Ill. Drinking straws. Serial No. 629,322, July 7. Class 50.

Replacement Unit Company, Cleveland, Ohio. Automotive clutch units, clutch pressure assemblies, clutch plates, etc. Serial No. 613,239, July 7. Class 23.

Revlon Products Corporation, New York, N. Y. Lotion face cream. Serial No. 636,736, July 7. Class 51.

Revlon Products Corporation, New York, N. Y. Lipstick and nail enamel. Serial No. 637,401, July 7. Class 51.

Rice Growers Association of California, Sacramento, Calif. Rice. Serial No. 636,308, July 7. Class 46.

Richmond-Chase Company, San Jose, Calif. Canned fruits, canned vegetables, and canned juices. Serial No. 622,312, July 7. Class 46.

Riker Laboratories, Inc., Los Angeles, Calif. Medicinal tablets. Serial No. 640,964, July 7. Class 18.

Roo-Amin Co.: *See*—
Katlen, Jessie.

Ross, Will, Inc., Milwaukee, Wis. Sanitary belts. Serial No. 630,445, July 7. Class 44.

Rothmans Limited, also trading as Weinberg & Company, London, England. Cigarettes, cigars and smoking tobacco. Serial No. 634,920, July 7. Class 17.

Royal Hair Pin Corporation, New York, N. Y. Industrial sewing machine needles, home sewing machine needles, and band sewing needles. Serial No. 638,438, July 7. Class 23.

Ruderman, Irving W., doing business as Larco Nuclear Instrument Company, Palisades Park, N. J. Instruments and apparatus for detection, indication, or measurement of nuclear or other radiation. Serial No. 637,724, July 7. Class 26.

Sage Laboratories, Inc., New York, N. Y. Cheesecloth. Serial No. 626,049, July 7. Class 42.

Sage Laboratories, Inc., New York, N. Y. Personal deodorant. Serial No. 626,052, July 7. Class 51.

Schlage Lock Company, San Francisco, Calif. Boring jigs, boring bits, metal templates, etc. Serial No. 640,413, July 7. Class 23.

Schlough, Leon H., St. Cloud, Minn. Split concrete building blocks and bricks. Serial No. 636,541, July 7. Class 12.

Schmid, Julius, Inc., New York, N. Y. Prophylactic rubber articles. Serial No. 633,124, July 7. Class 44.

Schmid, Julius, Inc., New York, N. Y. Vaginal jelly applicators. Serial No. 639,193, July 7. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Brushless shaving cream, lather shaving cream, shave bowl (shaving soap). Serial No. 622,034, July 7. Class 51.

Security Milling Co., Inc., The, Abilene, Kans. Flour. Serial No. 642,374, July 7. Class 46.

Sharp & Dohme Incorporated, Philadelphia, Pa. Anticholinergic preparation. Serial No. 639,662, July 7. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa. Antibiotic preparation. Serial No. 639,663, July 7. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa. Anticholinergic preparation. Serial No. 639,665, July 7. Class 18.

Sherman Products, Inc., Royal Oak, Mich. Change speed transmissions, power operated diggers. Serial No. 633,336, July 7. Class 23.

Silent Sentry, Inc., Hollywood, Calif. Fire extinguisher brackets. Serial No. 641,095, July 7. Class 13.

Simon, Bessie M., Chicago, Ill. Skin lotion, essential cream, cleansing cream, and brilliantine. Serial No. 620,626, July 7. Class 51.

Snap Products Corp., Syracuse, N. Y., assignor, by mesne assignments, to Snap Products Corp., Chicago, Ill. Replacement faucet seats. Serial No. 620,627, July 7. Class 13.

Snyder, Dora C., doing business as Center Products Co., Ilion, N. Y. Foot cream. Serial No. 639,787, July 7. Class 18.

Staley Milling Company, North Kansas City, Mo. Feed for animals. Serial No. 641,644, July 7. Class 46.

Stanley Home Products, Inc., Westfield, Mass. Liquid cleaning disinfectant. Serial No. 629,967, July 7. Class 52.

Starline Inc., Harvard, Ill. Pens and corrals and gates therefor, stalls and partitions therefor, etc. Serial No. 638,036, July 7. Class 12.

Steel Service, Inc., Steubenville, Ohio. Metal clothes cabinets or lockers. Serial No. 630,358, July 7. Class 32.

Storkline Furniture Corporation, Chicago, Ill. Baby strollers, baby carriages, baby coaches, etc. Serial No. 638,169, July 7. Class 19.

Sun Chemical Corporation, Long Island City, N. Y. Chemical composition. Serial No. 637,731, July 7. Class 6.

Sunkist Growers, Inc., Los Angeles, Calif. Fresh citrus fruits; natural strength and concentrated, frozen and unfronzen citrus juices; and citrus oils, etc. Serial No. 626,010, July 7. Class 46.

Supergrate Open Steel Flooring Co.: *See*—
Bostrom, Gustav J.

Swiss Pine Importing Co., Inc., New York, N. Y. Toilet soap. Serial No. 642,579, July 7. Class 52.

Sydney-Thomas Corporation, The, Cincinnati, Ohio. Transparent bags, freezer bags, and paper and plastic boxes, bags, etc. Serial No. 622,130, July 7. Class 2.

Tablax Company: *See*—
Weiner, Louis I.

Takamine Laboratory, Inc., Clifton, N. J. Enzyme preparation. Serial Nos. 643,051–2, July 7. Class 6.

Taylor Instrument Companies, Rochester, N. Y. Pneumatic, automatic controllers for controlling temperature, pressure, etc. Serial No. 631,073, July 7. Class 26.

Tenco, Inc., Winona, Minn. Plastic pipe fittings. Serial No. 638,785, July 7. Class 13.

Texas Boiler & Machinery Company, Dallas, Tex. Butane storage and shipping tanks. Serial No. 633,227, July 7. Class 2.

Thomson, R. H., & Co (Distillers) Limited, Leith, Edinburgh, Scotland. Scotch whisky. Serial No. 633,339, July 7. Class 49.

Tide Water Associated Oil Company, New York, N. Y. Tires. Serial No. 643,197, July 7. Class 35.

Two Rivers Poultry Farms: *See*—
Libby, Arthur W.

United Meat Packers, Rotterdam, Netherlands. Canned ham. Serial No. 636,574, July 7. Class 46.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. Serial No. 626,125, July 7. Class 22.

United States Rubber Company, New York, N. Y. Pneumatic automobile tires. Serial No. 628,016, July 7. Class 35.

United States Soft Water Company: *See*—
Harting, Wesley A.

Universal Form Clamp Co., Chicago, Ill. Concrete construction forms and parts for the forms. Serial No. 628,376, July 7. Class 12.

Upjohn Company, The, Kalamazoo, Mich. Lipotropic preparation. Serial No. 639,679, July 7. Class 18.

Valco Manufacturing Company, Huntington Park, Calif. Dairy equipment—namely, tanks. Serial No. 629,828, July 7. Class 2.

Victrylite Candle Company, Oshkosh, Wis. Holders of a plurality of candles. Serial No. 628,590, July 7. Class 34.

Von Ruden Manufacturing Co., Claremont, Minn. Hydraulic chain saws. Serial No. 627,724, July 7. Class 23.

Webb, Jervis B., Company, Detroit, Mich. Trolleys for conveyors. Serial No. 619,116, July 7. Class 23.

Weil & Company, Cleveland, Ohio. Coffee. Serial No. 571,626, July 7. Class 46.

Weinberg & Company: *See*—
Rothmans Limited.

Weiner, Louis I., doing business under the firm name and style, Tablax Company, New York, N. Y. Vaginal antiseptics and antiseptic compounds. Serial No. 634,021, July 7. Class 18.

Well InstrumentDeveloping Co., Houston, Tex. Well logging apparatus for indicating and recording the earth formation penetrated in the course of the drilling for oil and gas wells and the like. Serial No. 631,832, July 7. Class 26.

West Bend Aluminum Co., West Bend, Wis. Coffee makers. Serial No. 641,160, July 7. Class 13.

Weyerhaeuser Timber Company, Tacoma, Wash. Wood fiber. Serial No. 581,544, July 7. Class 12.

Wheeldex Manufacturing Co., Inc., White Plains, N. Y. Portable filing trays. Serial No. 636,395. July 7. Class 32.

Whirla-Whip, Inc., assignee: *See*—
Reed, Claude A.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Wax candles. Serial No. 618,948, July 7. Class 15.

Williams, C. K., & Co., Easton, Pa. Low grade limestone. Serial No. 639,092, July 7. Class 1.

Wittek Manufacturing Co., Chicago, Ill. Hose clamps. Serial No. 640,990, July 7. Class 13.

Wolf Brothers, Inc., Philadelphia, Pa. Paper bags. Serial Nos. 638,178–9, July 7. Class 2.

Woodrow, Jack, Indianapolis, Ind. Metal traps, and metal baffle traps. Serial No. 636,396, July 7. Class 12.

Wooster Brush Company, The, Wooster, Ohio. Paint applying devices. Serial No. 613,951, July 7. Class 29.

X-ray Products Corporation, North Hollywood, Calif. Industrial fluoroscopic and radiographic apparatus, and parts thereof. Serial No. 640,705, July 7. Class 26.

Young, Stephen A., Corporation, Flora, Ind. Plumbing fixtures. Serial No. 617,976, July 7. Class 13.

# LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Composition containing d-desoxyephedrine hydrochloride and vitamins prepared for use as a cerebral stimulant and source of vitamins. 577,061, July 7; Serial No. 635,508, published Apr. 7, 1953. Class 18.

Adams-Mills Corporation: *See*—
Textile Mills Corporation, The.

Affiliated Retailers, Inc., New York, N. Y. Carpet sweepers, food choppers, can openers, etc. 576,924, July 7; Serial No. 612,886, published Mar. 31, 1953. Class 23.

Agrashell, Inc., Los Angeles, Calif. Granulated abrasives. 576,961, July 7; Serial No. 622,136, published Apr. 21, 1953. Class 4.

Aktiebolaget Iggesunds Bruk, Iggesund, Sweden. Wood pulp. 303,907, renewed June 13, 1953. O. G. July 7. Class 1.

Aktiengesellschaft Chocolat Tobler, also trading as Chocolat Tobler, Limited, and Societe Anonyme Chocolat Tobler, Berne, Switzerland. Chocolate bars. 576,930, July 7; Serial No. 616,219, published Apr. 21, 1953. Class 46.

Aladdin Industries, Incorporated, Nashville, Tenn. Picnic carrying containers. 576,938, July 7; Serial No. 618,314, published Apr. 14, 1953. Class 50.

Aldens, Inc., Chicago, Ill. Men's and boys' outer suits and overcoats. 577,057, July 7; Serial No. 635,211, published Mar. 31, 1953. Class 39.



Allen & Hanburys, Limited, London, England. Medicinal laxative preparation. 304,065, renewed June 20, 1953. O. G. July 7. Class 13.

Allen Products Company: *See*—
Hunsicker, Robert F.

Allen, S. L., & Co., Inc., Philadelphia, Pa. Garden cultivators. 306,116, renewed Sept. 5, 1953. O. G. July 7. Class 23.

Alliance Manufacturing Company, The, Alliance, Ohio. Motors, electric turn-tables, antenna rotators, etc. 576,949, July 7; Serial No. 620,853, published Apr. 14, 1953. Class 21.

Altman, B., & Co., New York, N. Y. Dresses, coats, and suits. 306,281, renewed Sept. 12, 1953. O. G. July 7. Class 39.

Altorfer, Edward J., Peoria, Ill. Nonabrasive ground corucob meal for use in industry as a cleaning and polishing preparation. 577,024, July 7; Serial No. 632,007, published Apr. 21, 1953. Class 4.

American Bemberg Corp., assignee: *See*—
I. P. Bemberg Aktiengesellschaft.

American Brush Co., Inc., Roxbury, Mass. Paint brushes. 577,094, July 7; Serial No. 637,472, published Mar. 17, 1953. Class 29.

American Character Doll Co., New York, N. Y. Dolls. 577,104, July 7; Serial No. 638,483, published Apr. 21, 1953. Class 22.

American Crayon Company, The: *See*—
Sandusky Crayon Company, Inc.

American Home Products Corporation: *See*—
S. M. A. Corporation.

American Fluresit Company, Inc., Cincinnati, Ohio, formerly The American Fluresit Company. Solution of resin, oil, and volatile solvent as a surface coating or sealant. 576,886, July 7; Serial No. 557,173, published Apr. 21, 1953. Class 16.

American Fluresit Company, The: *See*—
American Fluresit Company, Inc.

American Instrument Company, Inc., Silver Spring, Md Hygrometers. 577,013, July 7; Serial No. 630,109, published Feb. 24, 1953. Class 26.

American Silver Company, The, Bristol, to The International Silver Company, Meriden, Conn. Silver and plated articles of tableware. 40,724, re-renewed July 7, 1953. O. G. July 7. Class 28.

American Toy and Furniture Company, Inc., Chicago, Ill. Children's toys. 577,115, July 7; Serial No. 640,386, published Apr. 21, 1953. Class 22.

American Writing Paper Co., to American Writing Paper Corporation, Holyoke, Mass. Book-paper. 92,388, re-renewed July 8, 1953. O. G. July 7. Class 37.

American Writing Paper Corporation: *See*—
American Writing Paper Co.

Angus, George, and Company, Limited, Newcastle-upon-Tyne, Northumberland, England. Textile roller coverings and drafting aprons for textile machinery. 576,934, July 7; Serial No. 617,599, published Apr. 14, 1953. Class 23.

Anthony Costumes, Inc., New York, N. Y. Ladies', misses' and children's tights, leotards, dance dresses, ballet skirts, etc. 577,052, July 7; Serial No. 634,963, published Apr. 14, 1953. Class 39.

Arden, Elizabeth: *See*—
Lewis, Florence N.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Cosmetic creams, lotions, sunburn ointment, etc. 279,960, Feb. 10, 1931. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks. 292,825, Mar. 29, 1932. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lotion. 308,049, Nov. 21, 1933. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Set of toilet preparations. 373,058, Nov. 21, 1939. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks, rouges, and nail polishes, etc. 377,652, May 7, 1940. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks, rouge, nail polish, etc. 381,966, Oct. 15, 1940. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipstick, rouge, and nail polish. 382,899, Nov. 12, 1940. Republished July 7. Class 51.

Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Compacts. 396,303, July 7, 1942. Republished July 7. Class 2.

Arden, Elizabeth, Inc., assignor to Elizabeth Arden Sales Corporation, by Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks, rouge, eye shadow, etc. 412,620, Mar. 20, 1945. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Lewis, Florence N.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Skin lotions. 388,616, July 1, 1941. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Deodorant stick. 390,188, Sept. 9, 1941. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Perfumes and toilet waters. 391,307, Oct. 28, 1941. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Soaps. 393,688, Feb. 24, 1942. Republished July 7. Class 52.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Traveling bags. 394,838, Apr. 28, 1942. Republished July 7. Class 3.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Nail polish, cream and compact rouges, and lipstick. 398,415, Oct. 27, 1942. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, foundation cream, foundation lotion, etc. 398,775, Nov. 24, 1942. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Face cream. 399,170, Dec. 22, 1942. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Nail polish, lipsticks, and rouges. 406,968, May 9, 1944. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Cream and compact rouges, lipstick, face and dusting powders, etc. 414,151, May 29, 1945. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Perfumes, eau de cologne, toilet water, etc. 414,745, June 26, 1945. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lotion for the legs. 419,174, Feb. 5, 1946. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Face and body creams. 419,175, Feb. 5, 1946. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipsticks, lip pencils, rouge, etc. 419,213, Feb. 5, 1946. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Perfumed powder. 419,768, Mar. 5, 1946. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Rouge, lipstick and nail polish. 420,020, Mar. 19, 1946. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Sachet powders. 426,913, Jan. 21, 1947. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipsticks, lip pencils, rouge, etc. 437,528, Mar. 30, 1948. Republished July 7. Class 51.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Nail polish. 439,038, June 1, 1948. Republished July 7. Class 51.

Arkwright Merchandising Corporation, New York, N. Y. Ironing boards, ironing board covers, press covers, etc. 576,964, July 7; Serial No. 622,524, published Apr. 7, 1953. Class 24.

Armour and Company: *See*—
Crane, Willard G.

Armstrong Cork Company, Lancaster, Pa. Molded bottle and jar closures or caps. 577,081, July 7; Serial No. 636,675, published Apr. 14, 1953. Class 50.

Associated Merchandising Corporation, The, New York, N. Y. Golf balls. 577,120–2, July 7; Serial Nos. 641,891–3, published Apr. 21, 1953. Class 22.

Augusta Knitting Corporation, Utica, N. Y. Women's underwear. 577,082, July 7; Serial No. 636,762, published Apr. 14, 1953. Class 39.

Avoset Company, San Francisco, Calif. Gelatin dessert preparation. 576,970, July 7; Serial No. 624,010, published Apr. 21, 1953. Class 46.

Bailey Meter Company, Cleveland, Ohio. Fluid pressure control instrument, unit comprising automatic-manual selector valve with indicator, etc. 577,135, July 7; Serial No. 603,280. Class 26.

Barber, Donald B., doing business as The Barber-Webb Company, South Gate, Calif. Plastic coatings in the nature of a paint. 576,881, July 7; Serial No. 528,905, published Apr. 7, 1953. Class 16.

Barber-Webb Company, The: *See*—
Barber, Donald B.

Barnes-Hind Laboratories, San Francisco, Calif. Specially processed, micronized barium sulfate. 577,035, July 7; Serial No. 632,866, published Apr. 7, 1953. Class 18.

Barnette, Guy, & Company, Inc., Memphis, Tenn. Ambulance bodies and funeral car bodies. 577,096, July 7; Serial No. 637,538, published Apr. 21, 1953. Class 19.

Barrell, William L., Co., Inc., New York, N. Y. Waterproofed fabrics. 305,210, renewed Aug. 8, 1953. O. G. July 7. Class 42.

Barth & Dreyfuss, Los Angeles, Calif. Bath towels, hand or guest towels, and wash cloths. 577,039, July 7; Serial No. 633,097, published Apr. 21, 1953. Class 42.

Beaunit Mills, Inc.: *See*—
I. P. Bemberg Aktiengesellschaft.

Belch, Paul F., Company, Bloomington, Ill. Candy. 305,991, renewed Aug. 29, 1953. O. G. July 7. Class 46.

Bendix Aviation Corporation, Detroit, Mich., and Teterboro, N. J. Voltage regulating tubes. 577,076, July 7; Serial No. 636,583, published Apr. 14, 1953. Class 21.

Bendix Home Appliances Division Avco Manufacturing Corporation, South Bend, Ind. Textile drying machines. 577,086, July 7; Serial No. 637,106, published Apr. 7, 1953. Class 24.

Bendix Home Appliances Division Avco Manufacturing Corporation, South Bend, Ind. Textile ironing machines. 577,087, July 7; Serial No. 637,107, published Apr. 7, 1953. Class 24.

Bendix Home Appliances Division Avco Manufacturing Corporation, South Bend, Ind. Textile washing machines. 577,088, July 7; Serial No. 637,108, published Apr. 7, 1953. Class 24.

Beryllium Corporation, The, Reading, Pa. Hand wire brushes. 577,037, July 7; Serial No. 632,916, published Apr. 21, 1953. Class 29.

Birbeck, F. V., Co., Watsonville, Calif. Fresh vegetables. 577,097, July 7; Serial No. 637,566, published Apr. 7, 1953. Class 46.

Birmingham Paper Company, Birmingham, Ala. School tablets, paper pads, blank books, etc. 576,957, July 7; Serial No. 622,007, published Dec. 30, 1952. Class 37.

Biturine Company of America, The, to General Paint Corporation, San Francisco, Calif. Paints. 93,064, renewed Aug. 19, 1953. O. G. July 7. Class 16.

Blau, M., Manufacturing Co.: *See*—
Blau, Max.

Blau, Max; doing business as M. Blau Manufacturing Co., Altamonte Spring, Fla. Motor-driven dry cleaning machinery. 577,042, July 7; Serial No. 633,251, published Apr. 7, 1953. Class 24.

Blue Bell, Inc., Greensboro, N. C. Western style jackets and jeans. 577,023, July 7; Serial No. 631,917, published Feb. 10, 1953. Class 39.

Borg & Beck Company, The, to Borg-Warner Corporation, Chicago, Ill. Mechanical clutches, clutch plates, and parts thereof. 300,396, renewed Jan. 17, 1953. O. G. July 7. Class 23.

Borg-Warner Corporation: *See*—
Borg & Beck Company, The.

Borun Bros., Los Angeles, Calif. Pharmaceutical preparations. 302,428, renewed Apr. 18, 1953. O. G. July 7. Class 51.

Bowman Brothers Drug Co., The, Canton, Ohio. Medicinal preparations. 576,969, July 7; Serial No. 623,300, published Apr. 21, 1953. Class 18.

Bozeman Canning Company, Inc., Bozeman, Mont. Canned peas. 577,030, July 7; Serial No. 632,596, published Apr. 14, 1953. Class 46.

Brady, Philip J., New York, to Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Aluminum cleansers. 93,517, re-renewed Sept. 23, 1953. O. G. July 7. Class 52.

Brillo Manufacturing Company, Inc.: *See*—
Brady, Philip J.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin derivative. 577,084, July 7; Serial No. 636,965, published Apr. 7, 1953. Class 18.

Brooklyn Blower & Pipe Co., Brooklyn, N. Y. Repairing, servicing, and maintaining of exhaust and blower systems. 577,156, July 7; Serial No. 600,876. Class 103.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarette tobacco. 306,574, renewed Sept. 26, 1953. O. G. July 7. Class 17.

Browne, E. T., Drug Company Inc., New York, N. Y. Ointment and whitening cream. 305,601, renewed Aug. 22, 1953. O. G. July 7. Class 51.

Browne, E. T., Drug Company, Inc., New York, N. Y. Ointment. 305,635, renewed Aug. 22, 1953. O. G. July 7. Class 18.

Bullen Chemical Company, Inc., The: *See*—
Bullen, J. Warren.

Bullen Chemical Company, The: *See*—
Bullen, J. Warren.

Bullen, J. Warren, doing business as The Bullen Chemical Company, to The Bullen Chemical Company, Inc., Folcroft, Pa. Insecticide and disinfectant. 304,514, renewed July 11, 1953. O. G. July 7. Class 6.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. 576,974, July 7; Serial No. 624,222, published Apr. 7, 1953. Class 39.

Burrow, Jones & Dyer Shoe Co., St. Louis, Mo., to Craddock-Terry Shoe Corporation, Lynchburg, Va. Misses' and children's leather shoes. 93,161, re-renewed Aug. 26, 1953. O. G. July 7. Class 39.

California Date Growers Association, Indio, Calif. Fresh dates. 577,139, July 7; Serial No. 617,106. Class 46.

California Underwear Company, Inc., Dallas, Tex. Women's hosiery. 576,992, July 7; Serial No. 626,852, published Apr. 14, 1953. Class 39.

Cantine, Martin, Company, The, Saugerties, N. Y. Clay coated paper. 301,233, renewed Feb. 21, 1953. O. G. July 7. Class 37.

Capewell Manufacturing Company, The, Hartford, Conn. Hand hack saw blades, hack saw frames, power hack saw blades, etc. 577,017–18, July 7; Serial Nos. 631,142–3, published Mar. 10, 1953. Class 23.

Caravan Trading Co., Inc.: *See*—
Van Valkenburgh, Hugh C.

Carbide and Carbon Chemicals Corporation, to Union Carbide and Carbon Corporation, New York, N. Y. Solvents for use in oil refining. 305,207, renewed Aug. 8, 1953. O. G. July 7. Class 6.

Cardwell Westinghouse Company, Chicago, Ill. Railway friction draft gears and friction bolster springs. 577,111, July 7; Serial No. 639,314, published Apr. 21, 1953. Class 19.

Carey, Robert M., doing business under the name of Universal Pulleys Company, Wichita, Kans. Concrete mixing units. 577,020, July 7; Serial No. 631,401, published Mar. 31, 1953. Class 23.

Central National Bank of Cleveland: *See*—
Central United National Bank of Cleveland.

Central United National Bank of Cleveland, to Central National Bank of Cleveland, Cleveland, Ohio. Publications. 301,763, renewed Mar. 14, 1953. O. G. July 7. Class 38.

Central United National Bank of Cleveland, to Central National Bank of Cleveland, Cleveland, Ohio. Publications. 301,809, renewed Mar. 14, 1953. O. G. July 7. Class 38.

Chemical Specialties Co., Inc., New York, N. Y. Medicinal hormone preparation. 577,059, July 7; Serial No. 635,401, published Apr. 7, 1953. Class 18.

Chenille Rug Company, Minneapolis, Minn. Woven rugs. 577,109, July 7; Serial No. 638,693, published Apr. 21, 1953. Class 42.

Chocolat Tobler, Limited: *See*—
Aktiengesellschaft Chocolat Tobler.

Citra Packing Company, Incorporated, Citra, Fla. Oranges, lemons, grape-fruit, etc. 300,403, renewed Jan. 17, 1953. O. G. July 7. Class 46.

Citra Packing Company, Incorporated, Citra, Fla. Oranges, lemons, grape-fruit, etc. 300,489, renewed Jan. 24, 1953. O. G. July 7. Class 46.

Cleevelandit Corporation, New York, N. Y. Smokers' articles. 577,012, July 7; Serial No. 629,988, published Apr. 21, 1953. Class 8.

Cleveland Mills Co., Lawndale, N. C. Casting lines for fishing. 576,973, July 7; Serial No. 624,182, published Apr. 21, 1953. Class 22.

Cleveland Mills Co., Lawndale, N. C. Shoe laces. 577,032, July 7; Serial No. 632,659, published Feb. 17, 1953. Class 40.

Clipper Manufacturing Company, Kansas City, Mo. Power driven masonry saws. 577,071, July 7; Serial No. 636,206, published Mar. 31, 1953. Class 23.

Coast Side Produce: *See*—
Molle, Thomas.

Coats & Clark Inc., assignee: *See*—
Patons & Baldwins, Inc.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Dental cream. 302,851, renewed May 2, 1953. O. G. July 7. Class 51.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Dental cream. 305,874, renewed Aug. 29, 1953. O. G. July 7. Class 51.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. 306,504, renewed Sept. 26, 1953. O. G. July 7. Class 51.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 306,690, renewed Sept. 26, 1953. O. G. July 7. Class 52.

Colonial Boat Works, Inc., Millville, N. J. Boats. 577,105, July 7; Serial No. 638,522, published Apr. 21, 1953. Class 19.

Columbia Graphophone Company, Washington, D. C., to Columbia Records Inc., Bridgeport, Conn. Talking-machines and talking-machine records. 93,428, re-renewed Sept. 16, 1953. O. G. July 7. Class 36.

Columbia Records Inc.: *See*—
Columbia Graphophone Company.

Commercial Controls Corporation, Rochester, N. Y. Ink impregnated fabric ribbons and carbon coated paper ribbons. 576,940, July 7; Serial No. 618,482, published Mar. 31, 1953. Class 11.

Consolidated Distilleries, Limited, Montreal, Quebec, Canada, to Gooderham & Worts Limited, Detroit, Mich. Whisky and other potable distilled liquors. 305,882, renewed Aug. 29, 1953. O. G. July 7. Class 49.

Continental-Diamond Fibre Company: *See*—
Diamond State Fibre Company.

Continental Sales & Sewing Machine Co.: *See*—
Schneider, Dorothy.

Corbett, John M., doing business as Dairy Products Group, Boston, Mass. Food products. 538,382, Feb. 20, 1951. Canceled May 22, 1953. O. G. July 7. Class 46.

Cortland Line Company, Inc., Cortland, N. Y. Fish lines. 577,124, July 7; Serial No. 642,068, published Apr. 21, 1953. Class 22.

Craddock-Terry Shoe Corporation: *See*—
Burrow, Jones & Dyer Shoe Co.

Crane, Clarence A., Cleveland, Ohio, to Life Savers Corporation, Port Chester, N. Y. Candy. 93,080, re-renewed Aug. 19, 1953. O. G. July 7. Class 46.

Crane, Willard G., Auburn, N. Y., to Armour and Company, Chicago, Ill. White laundry soap. 40,024, renewed Mar. 31, 1953. O. G. July 7. Class 52.

Crawford, Carol, Inc., New York, N. Y. Women's and misses' dresses. 577,083, July 7; Serial No. 636,878, published Apr. 14, 1953. Class 39.

Crete Mills, The, Crete, Nebr. Cereal flours, pancake flour, cake flour, etc. 576,921, July 7; Serial No. 610,544, published Apr. 14, 1953. Class 46.



Cross Company, The, Detroit, Mich. Drilling machines, milling machines, boring machines, etc. 576,889, July 7; Serial No. 565,046, published Mar. 24, 1953. Class 23.

Crown Zellerbach Corporation, San Francisco, Calif. Printing paper. 577,069, July 7; Serial No. 636,000, published Apr. 21, 1953. Class 37.

Crucible Steel Company of America, Jersey City, N. J., and New York, N. Y., to Crucible Steel Company of America, New York, N. Y. Tool-steel. 40,841, renewed July 28, 1953. O. G. July 7. Class 14.

Dairy Products Group: *See*—
Corbett, John M.

Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Prepared fish. 577,132, July 7; Serial No. 588,165. Class 46.

Davis, W. A., Milling Company, High Point, N. C. Cereal products. 577,107–8, July 7; Serial Nos. 638,637–8, published Apr. 21, 1953. Class 46.

Dawes Products Company, Chicago, Ill. Feed supplements. 577,029, July 7; Serial No. 632,507, published Apr. 7, 1953. Class 18.

Day & Young, Santa Clara, Calif. Assorted dried fruits. 577,154, July 7; Serial No. 633,717. Class 46.

Dayton Rubber Company, The, Dayton, Ohio. Loom checkstraps. 576,928, July 7; Serial No. 616,083, published Apr. 7, 1953. Class 23.

Dazey Corporation, St. Louis, Mo. Can openers. 567,004, Nov. 18, 1952. Canceled May 22, 1953. O. G. July 7. Class 23.

De Normand, George: *See*—
Hour Glass Productions.

De Vlieg Machine Company, Ferndale, Detroit, Mich. Machine tools and parts thereof. 577,008, July 7; Serial No. 629,235, published Mar. 3, 1953. Class 23.

Diamond State Fibre Company, Elsmere, to Continental-Diamond Fibre Company, Newark, Del. Goods made of vulcanized fiber for electrical purposes. 93,267, re-renewed Sept. 2, 1953. O. G. July 7. Class 21.

Dictaphone Corporation, Bridgeport, Conn. Electrically-operated central dictation systems. 576,983, July 7; Serial No. 625,465, published Apr. 14, 1953. Class 21.

Dietzgen, Eugene, Co., Chicago, Ill. Slide rules. 576,882, July 7; Serial No. 531,452, published Sept. 6, 1949. Class 26.

Dirigo Sales Corporation, Boston, Mass. Processed meal. 576,998, July 7; Serial No. 627,870, published Apr. 21, 1953. Class 46.

Distributors Trucking Corporation, doing business under the name Tanner Milling Company, New York, N. Y. Wheat flour. 576,901, July 7; Serial No. 595,124, published Apr. 21, 1953. Class 46.

Divine Brothers Company, Utica, N. Y. Buffing and polishing wheels, sheets of polishing felt, and buffing composition. 576,903, July 7; Serial No. 599,369, published Jan. 22, 1952. Class 4.

Dow Corning Corporation, Midland, Mich. Silanes, siloxanes, silicon chemicals, etc. 576,945, July 7; Serial No. 619,808, published Apr. 7, 1953. Class 6.

Dow Corning Corporation, Midland, Mich. Silanes, siloxanes, silicon chemicals, etc. 576,946, July 7; Serial No. 619,815, published Apr. 7, 1953. Class 6.

Doyle Packing Company, assignor to Doyle Packing Company, Los Angeles, Calif. Canned dog food. 577,149, July 7; Serial No. 627,563. Class 46.

Drew, E. F., & Co., Inc., New York, N. Y. Oleomargarine. 577,006, July 7; Serial No. 635,691, published Mar. 31, 1953. Class 46.

Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Nets for use in the fishing industry. 577,010, July 7; Serial No. 629,778, published Apr. 21, 1953. Class 22.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Sulfonated alcohols. 304,032, renewed June 20, 1953. O. G. July 7. Class 6.

Dupont Pharmacy, Inc., assignor to David Nathanson, to 40 Below Beverage Company, Washington, D. C. Maltless, non-alcoholic beverages. 306,812, renewed Sept. 26, 1953. O. G. July 7. Class 45.

E. M. I. Factories Limited, Hayes, England. Magnetic dictating and transcribing machines. 576,975, July 7; Serial No. 624,333, published Apr. 14, 1953. Class 21.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 303,444, May 23, 1933. Republished July 7. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 303,447, May 23, 1933. Republished July 7. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 354,078-9, Feb. 1, 1938. Republished July 7. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 438,939–42, May 18, 1948. Republished July 7. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. 439,115, June 1, 1948. Republished July 7. Class 1.

Eastern Air Lines, Inc., New York, N. Y. Air transportation, and for arranging all-expense vacation tours. 577,127, July 7; Serial No. 633,043, published Apr. 21, 1953. Class 105.

Eastern Seaboard Plastics, Inc., Newark, N. J. Wallets and pocketbooks. 576,950, July 7; Serial No. 620,666, published Apr. 21, 1953. Class 3.

Edgewater Paper Company, Menasha, Wis. Waterproof papers. 576,899, July 7; Serial No. 589,202, published Apr. 14, 1953. Class 37.

Edison, Thomas A., Incorporated, West Orange, N. J. Electric motors. 305,381, renewed Aug. 15, 1953. O. G. July 7. Class 21.

Eisenberg, Philip, doing business under the name Packet Milk Products, Steubenville, Ohio. Fluid milk, buttermilk, ice cream, etc. 576,919, July 7; Serial No. 610,315, published Apr. 21, 1953. Class 46.

Eldorado Tool and Manufacturing Corp., Wilford, Conn. Metal working tools. 572,908, Apr. 7, 1953. Corrected. O. G. July 7. Class 23.

Enger-Kress Company, West Bend, Wis. Billfolds. 577,067, July 7; Serial No. 635,750, published Apr. 14, 1953. Class 3.

Englestad, Matilda, doing business under the name and style of The Floramint Co., Palms, assignor, by mesne assignments, to W. G. Hendricks, doing business as Hendricks Research Foundation, Los Angeles, Calif. Ammoniated chewing gum. 576,914, July 7; Serial No. 606,283, published Mar. 10, 1953. Class 46.

Englishtown Cutlery, Ltd., New York, N. Y. Tableware. 444,781, July 7; Serial No. 507,311, published Mar. 31, 1953. Class 23.

Ercona Camera Corporation, New York, N. Y. Photographic lenses. 577,014, July 7; Serial No. 630,320, published Feb. 24, 1953. Class 26.

Essex Rubber Company, Trenton, N. J. Rubber household wares. 577,007, July 7; Serial No. 629,095, published Mar. 10, 1953. Class 50.

Etablissements Bohin, Société Anonyme, Paris, France. Hand sewing needles. 576,906, July 7; Serial No. 601,259, published Feb. 17, 1953. Class 40.

Ever Tick Corporation, Floral Park, N. Y. Toy watches. 577,133, July 7; Serial No. 593,863. Class 22.

Faber-Castell, A. W., Pencil Co., Inc., Newark, N. J. Rubber erasers. 577,021, July 7; Serial No. 631,552, published Apr. 7, 1953. Class 37.

Falls Industries, Inc., assignee: *See*—
General Ceramics and Steatite Corp.

Feel-Fine Hosiery Company: *See*—
Felix, Walter.

Felix, Walter, doing business as Feel-Fine Hosiery Company, Reading, Pa. Ladies and men's hosiery. 576,931, July 7; Serial No. 617,023, published Apr. 14, 1953. Class 39.

Fenn Bros., Inc., Sioux Falls, S. Dak. Horehound-flavored stick candy. 577,155, July 7; Serial No. 640,154. Class 46.

Finch, Jos. S., & Company, to Joseph S. Finch and Company, New York, N. Y., and Schenley, Pa. Whiskey. 303,162, renewed May 16, 1953. O. G. July 7. Class 49.

Finch, Joseph S., and Company: *See*—
Finch, Jos. S., & Company.

Fisher-Denver Company, Inc., sometimes doing business as Fisher Hardware Company, Denver, Colo. Knife sheaths, knife sheaths containing knife sets, knife and axe sheaths, etc. 576,900, July 7; Serial No. 591,025, published Mar. 3, 1953. Class 23.

Fisher Hardware Company: *See*—
Fisher-Denver Company, Inc.

Flintkote Company, The: *See*—
Flintkote Corporation, The.

Flintkote Company, The, New York, N. Y. Paperboard boxes. 577,141, July 7; Serial No. 621,879. Class 2.

Flintkote Corporation, The, to The Flintkote Company, New York, N. Y. Bituminous emulsions and emulsion compounds for use as protective coatings. 305,188, renewed Aug. 8, 1953. O. G. July 7. Class 16.

Floramint Co., The: *See*—
Englestad, Matilda.

Flour Mills of America, Inc., Kansas City, Mo. Wheat flour. 577,004, July 7; Serial No. 629,010, published Apr. 14, 1953. Class 46.

Fluegelman, N., & Co., Inc., New York, N. Y. Dresses, underwear, waists, etc. 305,540, renewed Aug. 22, 1953. O. G. July 7. Class 39.

Forest Interiors Manufacturing Co.: *See*—
Leutzinger, John F.

40 Below Beverage Company: *See*—
Dupont Pharmacy, Inc.

"4711" Limited: *See*—
Mülhens, Ferd, Inc.

Frank, S. M., & Co., Inc., New York, N. Y. Tobacco pipes, filters, and cigar and cigarette holders. 304,764, renewed July 18, 1953. O. G. July 7. Class 8.

Frank, S. M., & Co., Inc., New York, N. Y. Tobacco pipes, cigar and cigarette holders and filters. 304,767, renewed July 18, 1953. O. G. July 7. Class 8.

Fratelli Borletti Società per Azioni, Milan, Italy. Dash board instruments. 576,955, July 7; Serial No. 621,623, published Mar. 3, 1953. Class 26.

Frederics, E., Inc., New York, to E. Frederics, Inc., Brooklyn, N. Y. Pads used in the permanent waving of human hair. 303,441, renewed May 23, 1953. O. G. July 7. Class 44.

Freeman & Freeman, Inc., Denver, Colo. Liquid automobile cleaner. 577,043, July 7; Serial No. 633,260, published Apr. 21, 1953. Class 52.

Fruitland Canning Association, Inc., Fruitland, Idaho. Canned fruits. 577,143, July 7; Serial No. 622,588. Class 46.

Gabree Products Company, Inc.: *See*—
Odors Company, Inc.

Galigher Company, The, Salt Lake City, Utah. Industrial flotation and aeration machines. 576,911, July 7; Serial No. 603,678, published Apr. 7, 1953. Class 23.

Garcia, Chas., & Co., Inc., New York, N. Y. Spinning reel for fishing tackle. 576,963, July 7; Serial No. 622,434, published Apr. 21, 1953. Class 22.

General Ceramics and Steatite Corp., Keasbey, N. J., assignor to Falls Industries, Inc., Solon, Ohio. Fractionating towers. 576,929, July 7; Serial No. 616,167, published Mar. 10, 1953. Class 23.

General Dyestuff Corporation, New York, N. Y. Dyestuffs. 306,207, renewed Sept. 12, 1953. O. G. July 7. Class 6.

General Floorcraft, Inc., New York, N. Y. Electric floor brushing, scrubbing, rubbing and polishing machines, parts and accessories. 576,923, July 7; Serial No. 612,738, published Apr. 14, 1953. Class 21.

General Motors Corporation, Detroit, Mich. Electrically operated sounding horns, signals, alarms, and parts thereof, etc. 576,943, July 7; Serial No. 619,339, published Apr. 14, 1953. Class 21.

General Paint Corporation: *See*—
Biturine Company of America, The.

Gnome Bakers, Inc.: *See*—
Gnome Bakery, Inc.

Gnome Bakery, Inc., to Gnome Bakers, Inc., New York, N. Y. Bread. 302,299, renewed Apr. 11, 1953. O. G. July 7. Class 46.

Goldman, Myer: *See*—
Stine & Goldman.

Gooderham & Worts Limited: *See*—
Consolidated Distilleries, Limited.

Goodrich, B. F., Company, The: *See*—
Hood Rubber Company, Inc.

Goof's: *See*—
Graham, Edward L.

Gorgeous George, Beaumont, Calif. Frozen turkeys. 576,997, July 7; Serial No. 627,742, published Mar. 31, 1953. Class 46.

Gotham Hosiery Company, Inc., New York, N. Y. Women's hosiery. 577,028, July 7; Serial No. 632,298, published Apr. 7, 1953. Class 39.

Grady-Travers Company, Inc., The: *See*—
Kelley, Henry C., Company.

Graham, Edward L., doing business as Goof's, Kingstree, S. C. Fishing tackle. 577,102, July 7; Serial No. 638,361, published Apr. 21, 1953. Class 22.

Gray, Robert, doing business as Shasta Trailer Company, Los Angeles, Calif. House trailers. 577,100, July 7; Serial No. 637,992, published Apr. 21, 1953. Class 19.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Candy. 577,072, July 7; Serial No. 636,356, published Apr. 7, 1953. Class 46.

Gruhn, M. Mitchell, New York, N. Y. Radio receiving sets, radio television sets, and parts therefor. 302,172, renewed Apr. 4, 1953. O. G. July 7. Class 21.

Ourian, Edward E., & Co., Inc., Chicago, Ill. Rubber sponges. 577,129, July 7; Serial No. 560,702. Class 1.

Haber, J. L., & Company, New York, N. Y. Thermoplastic film, etc. 420,407, Apr. 9, 1946. Cancelled May 22, 1953. O. G. July 7. Class 1.

Hall Hardware Company, to Our Own Hardware Company, Minneapolis, Minn. Dry, paste, and ready-mixed paints and varnishes. 305,819, renewed Aug. 22, 1953. O. G. July 7. Class 16.

Harris-Lipsitz Co., Dallas, Tex., and New York, N. Y., to Higginbotham Bailey Company, Dallas, Tex. Children's rompers. 90,885, re-renewed Apr. 1, 1953. O. G. July 7. Class 39.

Harris-Smith, Inc.: *See*—
Levin & Harris Shirt Co, Inc.

Harrison-Simpson Co. Inc., Boston, Mass. Writing paper and mailing envelopes. 577,022, July 7; Serial No. 631,734, published Apr. 7, 1953. Class 37.

Harry and David, Medford, Oreg. Gift packages containing fresh deciduous fruits, canned fruits, etc. 576,896, July 7; Serial No. 586,035, published Apr. 21, 1953. Class 46.

Hawkinson, Paul E., Company, Minneapolis, Minn. Tire repair materials and tools. 576,966, July 7; Serial No. 622,826, published Mar. 10, 1953. Class 23.

Health Products Corporation, Newark, N. J., to White Laboratories, Inc., Kenilworth, N. J. Cod liver oil concentrate. 306,754, renewed Sept. 26, 1953. O. G. July 7. Class 18.

Heidenberg Lace Net Curtain Co., Closter, N. J. Window curtains and draperies. 577,106, July 7; Serial No. 638,580, published Apr. 21, 1953. Class 42.

Helme, George W., Company, New York, N. Y. Snuff. 576,918, July 7; Serial No. 610,248, published Apr. 21, 1953. Class 17.

Helms, Bakeries, Los Angeles, Calif. Bakery goods. 577,134, July 7; Serial No. 596,226. Class 46.

Hendricks Research Foundation, assignee: *See*—
Englestad, Matilda.

Hendricks, Wendell G., assignee: *See*—
Englestad, Matilda.

Herfort, Frank, to Frank Herfort Canning Co., Inc., Baraboo, Wis. Canned vegetables. 92,795, re-renewed July 29, 1953. O. G. July 7. Class 46.

Herfort, Frank, Canning Co., Inc.: *See*—
Herfort, Frank.

Higginbótham Bailey Company: *See*—
Harris-Lipsitz Co.

Himalaya Knitwear Co., Inc., New York, N. Y. Men and women's sweaters, hose, mufflers, etc. 576,922, July 7; Serial No. 610,969, published Apr. 14, 1953. Class 39.

Hollander, A., & Son, Inc., Newark, N. J. Fur skins. 301,400, renewed Feb. 28, 1953. O. G. July 7. Class 1.

Hollander, A., & Son, Inc., Newark, N. J. Fur skins. 301,404, renewed Feb. 28, 1953. O. G. July 7. Class 1.

Hollingshead, R. M., Corporation, Camden, N. J. Chemical compounds for cleaning and preserving fuel systems, etc. 576,977, July 7; Serial No. 624,542, published Apr. 21, 1953. Class 52.

Hood Rubber Company, Inc., Watertown, Mass., to The B. F. Goodrich Company, Akron, Ohio. Wall covering. 303,356, renewed May 23, 1953. O. G. July 7. Class 50.

Hour Glass Productions, Los Angeles, Calif., assignee of W. Tuchock and G. de Normand. Finished motion picture films. 576,927, July 7; Serial No. 616,066, published Mar. 10, 1953. Class 26.

Howard Hosiery Mills, Inc., Sinking Spring, Pa., and New York, N. Y. Hosiery. 576,908, July 7; Serial No. 602,402, published Apr. 7, 1953. Class 39.

Hulman & Company: *See*—
Layton Pure Food Company.

Hunsicker, Robert F., doing business under the name and style of Allen Products Company, Allentown, Pa. Dog food. 577,153, July 7; Serial No. 632,523. Class 46.

Hurd, George B., Inc., New York, N. Y. Writing paper and envelopes. 576,883, July 7; Serial No. 541,844, published Apr. 7, 1953. Class 37.

Huyck, F. C., & Sons: *See*—
Huyck, F .C., and Sons.

Huyck, F. C., and Sons, Rensselaer and Albany, to F. C. Huyck & Sons, Albany, N. Y. Paper-makers' jackets, woolen cloths for mechanical purposes, and color-cloths for carrying the color on wall-paper. 90,892, re-renewed Apr. 1, 1953. O. G. July 7. Class 50.

Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Preparation containing the uterine relaxing factor of the corpus luteum. 577,063, July 7; Serial No. 635,596, published Apr. 7, 1953. Class 18.

I. P. Bemberg Aktiengesellschaft, Wuppertal Oberbarmen, Germany, assignor to American Bemberg Corp., to Beaunit Mills, Inc., New York, N. Y., Knitted, netted and textile materials. 302,186, renewed Apr. 4, 1953. O. G. July 7. Class 42.

Independent Milwaukee Brewery, Milwaukee, Wis. Malt beverage. 300,866, renewed Feb. 14, 1953. O. G. July 7. Class 48.

Industrial Gloves Company, Danville, Ill. Steel reenforced gloves, steel reenforced mittens, leather spring leggings, etc. 576,935, July 7; Serial No. 618,088, published Apr. 14, 1953. Class 39.

Industrial Rayon Corporation, Cleveland, Ohio. Rayon fabrics. 303,715, renewed June 6, 1953. O. G. July 7. Class 42.

Inter-Collegiate Press, to Inter-Collegiate Press, Inc., Kansas City, Mo. Unfinished, printed, engraved, and lithographed greeting cards; enclosure cards and printed invitations. 305,736, renewed Aug. 22, 1953. O. G. July 7. Class 38.

Inter-Collegiate Press, Inc.: *See*—
Inter-Collegiate Press.

International Cellucotton Products Company, Chicago, Ill. All-purpose absorbent paper tissues. 577,005, July 7; Serial No. 629,020, published Feb. 17, 1953. Class 37.

International Cellucotton Products Company, Chicago, Ill. All-purpose absorbent paper tissues. 577,006, July 7; Serial No. 629,022, published Feb. 17, 1953. Class 37.

International Corset Company, Aurora, Ill. Girdles. 577,089, July 7; Serial No. 637,129, published Apr. 14, 1953. Class 39.

International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros. Mattresses and box springs. 576,887, July 7; Serial No. 557,455, published Apr. 21, 1953. Class 32.

International Milling Company: *See*—
Shellabarger Mill & Elevator Company.

International Shoe Company, St. Louis, Mo. Boots and shoes. 305,703, renewed Aug. 22, 1953. O. G. July 7. Class 39.

International Silver Company, The: *See*—
American Silver Company, The.

International Typesetting Machine Company, New York, to Intertype Corporation, Brooklyn, N. Y. Type casting, setting, and composing machines. 91,876, re-renewed June 3, 1953. O. G. July 7. Class 23.

Intertype Corporation: *See*—
International Typesetting Machine Company.

Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Knitting machines. 576,904, July 7; Serial No. 599,437, published Mar. 3, 1953. Class 23.

Janda, Joseph J., doing business under the name of Janda's Drive-In Restaurant, Lyons, Ill. Prepared dinners. 576,996, July 7; Serial No. 627,510, published Apr. 21, 1953. Class 46.

Janda's Drive-In Restaurant: *See*—
Janda, Joseph J.

Jelenko, J. F., & Co., Inc., New York, N. Y. Dental gold. 302,696, renewed Apr. 25, 1953. O. G. July 7. Class 44.

Johnson, E. F., Company, Waseca, Minn. Radio transmitters, radio knobs and dials, variable frequency oscillators, etc. 577,073, July 7; Serial No. 636,421, published Apr. 14, 1953. Class 21.



Johnson, Gordon, Company, Kansas City, Mo. Poultry plucking machines and parts thereof. 577,031, July 7; Serial No. 632,616, published Mar. 10, 1953. Class 23.

Kaiser Gypsum Company, Oakland, Calif., assignee of Henry J. Kaiser Company, formerly Kaiser Industries, Inc., now by merger and change of name Kaiser Gypsum Company, Inc. Gypsum wall board and lath; gauging and casting plaster; fibered and unifibered hardwall plaster, etc. 576,915, July 7; Serial No. 607,550, published Mar. 10, 1953. Class 12.

Kaiser Gypsum Company, Inc.: *See*—
Kaiser Gypsum Company.

Kaiser, Henry J., Company: *See*—
Kaiser Gypsum Company.

Kaiser Industries, Inc.: *See*—
Kaiser Gypsum Company.

Karlson-Scott Chemical Corporation, Fort Lauderdale, Fla. Soil conditioning material. 577,099, July 7; Serial No. 637,927, published Apr. 21, 1953. Class 10.

Karpen, S., & Bros: *See*—
International Furniture Company.

Kaufmann Department Stores: *See*—
May Department Stores Company, The.

Kelley, Henry C., Company, to The Grady-Travers Company, Inc., New York, N. Y. Cords, twines, ropes and lines. 91,971, re-renewed June 10, 1953. O. G. July 7. Class 7.

Kelley, Henry C., Company, to The Grady-Travers Company, Inc., New York, N. Y. Cords, twines, ropes, and lines. 92,560–1, re-renewed July 15, 1953. O. G. July 7. Class 7.

Kelley, Henry C., Company, to The Grady-Travers Company, Inc., New York, N. Y. Cords, twines, ropes, and clothes-lines. 93,184, re-renewed Aug. 26, 1953. O. G. July 7. Class 7.

Kencroft Malleable Co., Inc., Buffalo, N. Y. Malleable castings, cast iron castings, etc. 577,137, July 7; Serial No. 608,547. Class 14.

Key Fish Market: *See*—
Key, Shelley A.

Key, Shelley A., doing business as Key Fish Market, Port Lavaca, Tex. Frozen seafood products. 576,981, July 7; Serial No. 624,954, published Apr. 21, 1953. Class 46.

Kleen-Pup Laboratories: *See*—
Pergament, Marcus N.

Kohler Co., Kohler, Wis. Internal combustion engines. 577,058, July 7; Serial No. 635,365, published Mar. 17, 1953. Class 23.

Kremers-Urban Company, Milwaukee, Wis. Anti-spasmodic. 576,984, July 7; Serial No. 625,743, published Apr. 7, 1953. Class 18.

Kronke Co., Oakland, Calif. Outdoor type hammocks. 576,895, July 7; Serial No. 584,064, published Apr. 21, 1953. Class 22.

La Industrial de Ensenada, S. de R. L., Ensenada, Lower California, Mexico. Canned tomato paste. 577,118, July 7; Serial No. 640,942, published Apr. 21, 1953. Class 46.

Lanning, Clair, doing business as Vette Company, Lincoln, Nebr. Potato chips, cheese-flavored chips and food chips. 576,898, July 7; Serial No. 588,177, published Apr. 14, 1953. Class 46.

Layton Pure Food Company, East St. Louis, Ill., to Hulman & Company, Rumford, R. I. Baking-powder and baking-soda. 90,352, re-renewed Feb. 18, 1953. O. G. July 7. Class 46.

Layton Pure Food Company, Providence, R. I., and East St. Louis, Ill., to Hulman & Company, Rumford, R. I. Baking powder. 300,736, renewed Feb. 7, 1953. O. G. July 7. Class 46.

Lear, Incorporated, Grand Rapids, Mich. Radio direction finding apparatus, automatic pilot apparatus, electronic temperature control apparatus, etc. 576,912, July 7; Serial No. 603,888, published Mar. 3, 1953. Class 26.

Lee-Wald Garment Company, Kansas City, Mo. Child's tailored overall garment. 577,060, July 7; Serial No. 635,480, published Apr. 21, 1953. Class 39.

Lelong, Lucien, Inc., Chicago, Ill. Cologne. 577,145, July 7; Serial No. 625,478. Class 51.

Lenson, U. & J., Corp., Brooklyn, N. Y. Teas. 577,011, July 7; Serial No. 629,948, published Apr. 14, 1953. Class 46.

Leutzinger, John F., doing business as Forest Interiors Manufacturing Co., Seattle, Wash. Putty. 577,142, July 7; Serial No. 622,548. Class 12.

Lever Brothers Company, New York, N. Y. Oleomargarine. 576,917, July 7; Serial No. 609,732, published Apr. 21, 1953. Class 46.

Levin & Harris Shirt Co, Inc., to Harris-Smith, Inc., New York, N. Y. Men's and boys' dress shirts and men's and boys' pajamas. 306,703, renewed Sept. 26, 1953. O. G. July 7. Class 39.

Levy, Moe & Son, Inc., New York, N. Y. Men's suits, overcoats, etc. 385,002, Feb. 11, 1941. Amended. O. G. July 7. Class 39.

Lewis, Florence N., by Elizabeth Arden Sales Corporation, New York, N. Y. Depilatory. 123,441, Nov. 12, 1918. Republished July 7. Class 51.

Lewis, Florence N., by Elizabeth Arden Sales Corporation, New York, N. Y. Educational appliances, comprising illustrated charts and instructions printed thereon and supplemented by instructions recorded upon sound reproducing devices. 185,807, June 24, 1924. Republished July 7. Class 36.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Eyelash lotion. 200,848, July 14, 1925. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Astringent. 205,537, Nov. 10, 1925. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Skin-cleansing cream. 205,788, Nov. 17, 1925. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Eye lotion. 205,859. Nov. 17, 1925. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Skin lotion. 205,860, Nov. 17, 1925. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Deodorants. 210,274, Mar. 9, 1926. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Cosmetics. 211,102, Apr. 6, 1926. Republished July 7. Class 51.

Lewis, Florence N., doing business as Elizabeth Arden, by Elizabeth Arden Sales Corporation, New York, N. Y. Perfumes and toilet waters. 244,645, July 24, 1928. Republished July 7. Class 51.

Lewis-Shepard Products, Inc., Watertown, Mass. Materials-handling equipment. 576,953, July 7; Serial No. 621,370, published Mar. 31, 1953. Class 23.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Continuous drawn strands and yarns. 577,110, July 7; Serial No. 630,060, published Apr. 21, 1953. Class 43.

Life Savers Corporation: *See*—
Crane, Clarence A.

Lumured Plastic Corp., New York, N. Y. Handbags and wallets. 577,064, July 7; Serial No. 635,801, published Apr. 21, 1953. Class 3.

M. V. C. Lab.: *See*—
Mountain Varnish & Color Works, Inc.

M. V. C. Laboratories, Inc.: *See*—
Mountain Varnish & Color Works, Inc.

Macon Grocery Company, Macon, Ga. Canned fruits and vegetables. 576,980, July 7; Serial No. 624,890, published Apr. 21, 1953. Class 46.

Mallard Pencil Co., Inc., Georgetown, Ky. Wood cased lead pencils. 576,988, July 7; Serial No. 626,800, published Feb. 17, 1953. Class 37.

Mallard Pencil Co. Inc., Georgetown, Ky. Wood cased lead pencils. 576,989, July 7; Serial No. 626,802, published Feb. 17, 1953. Class 37.

Mallard Pencil Co. Inc., Georgetown, Ky. Wood cased lead pencils. 576,990, July 7; Serial No. 626,804, published Feb. 17, 1953. Class 37.

Mallard Pencil Co. Inc., Georgetown, Ky. Wood cased lead pencils. 576,991, July 7; Serial No. 626,805, published Feb. 17, 1953. Class 37.

Marshall Railway Equipment Corporation, New York, N. Y. Railroad cars and structural railroad car parts. 577,116, July 7; Serial No. 640,864, published Apr. 21, 1953. Class 19.

Marvel Specialty Company, Incorporated, Paducah, Ky. Hosiery mending machine. 576,968, July 7; Serial No. 623,283, published Mar. 10, 1953. Class 23.

Masonry Resurfacing & Construction Co., Inc., Baltimore, Md. Portable coffer-dams. 577,138, July 7; Serial No. 614,093. Class 12.

May Department Stores Company, The, doing business under the name of Kaufmann Department Stores, St. Louis, Mo., and Pittsburgh, Pa. Facial tissue and toilet tissue. 577,003, July 7; Serial No. 628,772, published Feb. 17, 1953. Class 37.

McGraw Electric Company, Chicago, Ill. Electrical appliances. 576,925, July 7; Serial No. 613,597, published Apr. 14, 1953. Class 21.

Meat Industry Suppliers, Inc., Chicago, Ill. Chemical composition for use in curing meats, etc. 523,644, Apr. 4, 1950. Canceled June 5, 1953. O. G. July 7. Class 46.

Meisel, C., Inc., New York, N. Y., to C. Meisel Music Co. Inc., Union, N. J. Violins, violas, violoncellos, double basses, etc. 302,220, renewed Apr. 4, 1953. O. G. July 7. Class 36.

Meisel, C., Music Co. Inc.: *See*—
Meisel, C., Inc.

Meimar, Inc., Hoboken, N. J. Finger ring boxes. 577,128, July 7; Serial No. 556,807. Class 2.

Menendez Garcia y Compania Limitada: *See*—
Upmann, H., & Co.

Miller Brewing Company: *See*—
Miller High Life Company.

Miller High Life Company, to Miller Brewing Company, Milwaukee, Wis. Beer. 305,870, renewed Aug. 29, 1953. O. G. July 7. Class 48.

Miron Mills, Inc., Clinton, Mass. Woolen piece goods. 576,985, July 7; Serial No. 626,098, published Apr. 21, 1953. Class 42.

Miss Petite, Inc., New York, N. Y. Panties. 577,045, July 7; Serial No. 633,625, published Apr. 14, 1953. Class 39.

Miss Swank, Inc., New York, N. Y. Women's, misses', and girls' slips, petticoats, pajamas, etc. 576,933, July 7; Serial No. 617,413, published Apr. 21, 1953. Class 39.

Molle, Thomas, doing business as Coast Side Produce, Oakland, Calif. Packaged fresh vegetables. 576,952, July 7; Serial No. 621,079, published Apr. 21, 1953. Class 46.

Monroe Food Products Co.: *See*—
Soffer, Harry L.

Morrison, John, Franconia, N. H. Hammer toy. 577,136, July 7; Serial No. 606,624. Class 22.

Mountain Varnish & Color Works, Inc., doing business as M. V. C. Lab., to M. V. C. Laboratories, Inc., Toledo, Ohio. Manicure preparations. 306,010, renewed Sept. 20, 1953. O. G. July 7. Class 51.

Mülhens, Ferd, Inc., by "4711" Limited, New York, N. Y. Eau de cologne. 300,379, Jan. 24, 1933. Republished July 7. Class 51.

Multi-Aid Computer Corp., New York, N. Y. Slide-rule type calculator. 576,936, July 7; Serial No. 618,176, published Mar. 3, 1953. Class 26.

Mutual Pharmacal Company, Inc., Syracuse, N. Y. Formula for the relief of pain and muscle spasm. 577,070, July 7; Serial No. 636,087, published Apr. 14, 1953. Class 18.

N. V. Textielfabriek "Holland," Enschede, Netherlands. Cotton and rayon fabrics and made-up fabrics. 576,965, July 7; Serial No. 622,637, published Apr. 21, 1953. Class 42.

Naco Fertilizer Company, New York, N. Y. Soluble plant food. 577,150, July 7; Serial No. 629,313. Class 10.

Nathanson, David, assignee: *See*—
Dupont Pharmacy, Inc.

National Bellas Hess, Inc., North Kansas City, Mo. Women's and girls' hosiery. 576,979, June 7; Serial No. 624,847, published Apr. 14, 1953. Class 39.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 91,011, re-renewed Apr. 8, 1953. O. G. July 7. Class 46.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 91,113, re-renewed Apr. 15, 1953. O. G. July 7. Class 46.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 91,227, re-renewed Apr. 22, 1953. O. G. July 7. Class 46.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 92,447, re-renewed July 8, 1953. O. G. July 7. Class 46.

National Cash Register Company, The, Dayton, Ohio. Ink dispensing devices. 576,956, July 7; Serial No. 621,777, published Apr. 21, 1953. Class 11.

National Hosiery Mills, Inc.: *See*—
National Silk Hosiery Mills, Inc.

National Silk Hosiery Mills, Inc., to National Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. 302,246, renewed Apr. 4, 1953. O. G. July 7. Class 39.

National Steel Construction Co., Seattle, Wash. Automatic electric water heaters. 576,909, July 7; Serial No. 603,410, published Apr. 14, 1953. Class 21.

National System of Garage Ventilation Inc., The, assignee: *See*—
Tenney, Frank M.

Naugatuck Chemical Company, The, to United States Rubber Company, New York, N. Y. Latex composition. 304,318, renewed June 27, 1953. O. G. July 7. Class 1.

Needle Industries Limited, Birmingham, England. Needles for hand sewing. 576,954, July 7; Serial No. 621,372, published Feb. 17, 1953. Class 40.

New England Fish Company, Seattle, Wash. Frozen fish products. 576,910, July 7; Serial No. 603,411, published Apr. 14, 1953. Class 46.

New York Belting & Packing Co. Ltd., assignor to New York Belting and Packing Company, to United States Rubber Company, New York, N. Y. Belting, hose, and packing. 91,013, re-renewed Apr. 8, 1953. O. G. July 7. Class 35.

New York Belting and Packing Company, assignee: *See*—
New York Belting & Packing Co. Ltd.

Nopco Chemical Company, Harrison, N. J. Stabilized vitamin concentrates. 577,008, July 7; Serial No. 635,972, published Apr. 14, 1953. Class 18.

Northern Paper Mills, Green Bay, Wis. Toilet paper. 304,775, renewed July 18, 1953. O. G. July 7. Class 37.

Northern Paper Mills, Green Bay, Wis. Toilet paper. 305,106, renewed Aug. 1, 1953. O. G. July 7. Class 37.

Odora Company, Inc., to Gabree Products Company, Inc., New York, N. Y. Moth repellant. 301,518, renewed Mar. 7, 1953. O. G. July 7. Class 6.

Oldfield Equipment Company, Cincinnati, Ohio. Automatic hose reel. 577,098, July 7; Serial No. 637,666, published Apr. 7, 1953. Class 23.

Omega Machine Company, Providence, R. I. Power driven laboratory stirrer. 576,932, July 7; Serial No. 617,055, published Mar. 10, 1953. Class 26.

Ontelaunee Orchards: *See*—
Thun Investment Company.

Opelika Manufacturing Corporation, Chicago, Ill., assignee of M. Snower & Company. White duck fabrics and white drill fabrics, etc. 576,920, July 7; Serial No. 610,502, published Apr. 21, 1953. Class 42.

Orchard Paper Co., St. Louis, Mo. Paper merchandise bags. 577,146, July 7; Serial No. 625,485. Class 2.

Our Own Hardware Company: *See*—
Hall Hardware Company.

Outwest Company: *See*—
Tomlin, Amos S.

Packet Milk Products: *See*—
Eisenberg, Philip.

Page Milk Company, The, Merrill, Wis. Canned evaporated milk. 577,048, July 7; Serial No. 634,543, published Apr. 21, 1953. Class 46.

Pan American Trade Development Corp., New York, N. Y. Leaf springs and coil springs for vehicles and tie rod ends. 577,123, July 7; Serial No. 642,043, published Apr. 21, 1953. Class 19.

Patons & Baldwins, Inc., New York, N. Y., assignor to Coats & Clark Inc. Yarn. 576,916, July 7; Serial No. 609,192, published Apr. 14, 1953. Class 43.

Pelron Corporation, Lyons, Ill. Paint booth coatings, paint coagulators, and oil and resin base paint. 577,050, July 7; Serial No. 634,755, published Mar. 17, 1953. Class 16.

Peiron Corporation, Lyons, Ill. Buffing compounds. 577,051, July 7; Serial No. 634,757, published Apr. 7, 1953. Class 4.

Penn-Carol Hosiery Mills, Inc., Wyncote, Pa. Women's hosiery. 576,993, July 7; Serial No. 626,905, published Apr. 7, 1953. Class 39.

Pergament, Marcus N., doing business as Kleen-Pup Laboratories, Arabi, La. Soap. 577,131, July 7; Serial No. 586,061. Class 52.

Perolin Company, Inc., The, Dover, Del., and New York, N. Y. Chemical compositions employed as fuel oil additives. 577,009, July 7; Serial No. 629,317, published Apr. 14, 1953. Class 15.

Phillips-Hendon Co., to Phillips-Lester Manufacturing Company, Inc., Birmingham, Ala. Men's, youths', and boys' overalls, coats, trousers, etc. 92,258, re-renewed June 24, 1953. O. G. July 7. Class 39.

Phillips-Lester Manufacturing Company, Inc.: *See*—
Phillips-Hendon Co.

Pierce, F. O., Company, Long Island City, N. Y. Rubber latex paint. 577,079, July 7; Serial No. 636,650, published Apr. 21, 1953. Class 16.

Pierce, F. O., Company, Long Island City, N. Y. Mildewcide used in protective coatings. 577,080, July 7; Serial No. 636,651, published Apr. 21, 1953. Class 16.

Pilgrim Novelty Corporation, New York, N. Y. Ironing pads and covers. 577,049, July 7; Serial No. 634,712, published Apr. 14, 1953. Class 24.

Pioneer Coat Manufacturing Company, Minneapolis, Minn. Children's stormcoats. 577,000, July 7; Serial No. 628,291, published Apr. 7, 1953. Class 39.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint lacquers and paint and baking enamels. 576,884, July 7; Serial No. 544,275, published Apr. 7, 1953. Class 16.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Ladies' hosiery. 577,036, July 7; Serial No. 632,898, published Apr. 7, 1953. Class 39.

Poirette Corsets, Inc., New York, N. Y. Corsets, girdles, brassières, and combinations of brassières and girdles. 577,085, July 7; Serial No. 636,999, published Apr. 14, 1953. Class 39.

Posner, Harold, Brooklyn, N. Y. Ladies' hosiery, knitted underwear, ladies' nylon or rayon slips, etc. 576,947, July 7; Serial No. 620,169, published Apr. 21, 1953. Class 39.

Pressing Supply Company, Philadelphia, Pa. Ironing board pads and ironing board pad covers. 577,077, July 7; Serial No. 636,604, published Apr. 14, 1953. Class 24.

Price, Kenneth B., doing business as The Tenna-Trailer Company, Pontiac, Ill. Vehicle for transporting, erecting, and supporting a television antenna. 577,025, July 7; Serial No. 632,175, published Apr. 21, 1953. Class 19.

Proctor Electric Company, Philadelphia, Pa. Ironing board covers. 577,091, July 7; Serial No. 637,327, published Apr. 14, 1953. Class 24.

Puhl, John, Products Company, The, Chicago, Ill. Ammonia cleaning compound. 577,016, July 7; Serial No. 630,681, published Apr. 21, 1953. Class 52.

Pullman-Standard Car Manufacturing Company, Chicago, Ill. End door locks. 576,913, July 7; Serial No. 605,269, published Apr. 14, 1953. Class 25.

Pyramid Mills Company, Bessemer City, N. C. Crochet, knitting and weaving yarn. 576,982, July 7; Serial No. 624,970, published Apr. 14, 1953. Class 43.

Ransom & Randolph Company, The, Toledo, Ohio. Dental burs, impression compounds, sealing instruments, etc. 300,906, Feb. 14, 1933. Republished July 7. Class 44.



Rawlings Manufacturing Company, St. Louis, Mo. Baseball gloves. 576,987, July 7; Serial No. 620,592, published Apr. 21, 1953. Class 22.

Rayco Mfg. Co., Paterson, N. J. Automobile seat covers. 576,999, July 7; Serial No. 628,170, published Apr. 21, 1953. Class 19.

Reddi-Wip, Inc., St. Louis, Mo. Cream containing vanilla, sugar, and stabilizer. 577,074–5, July 7; Serial Nos. 636,495–6, published Apr. 21, 1953. Class 46.

Redman, Frank R., Yardley, Pa. Underwear and outerwear. 576,967, July 7; Serial No. 622,953, published Apr. 14, 1953. Class 39.

Redman, Frank R., Yardley, Pa. Underwear and outerwear. 577,002, July 7; Serial No. 628,647, published Apr. 14, 1953. Class 39.

Reilly Tar & Chemical Corporation, Indianapolis, Ind. Surface tar emulsion sealer. 576,926, July 7; Serial No. 615,413, published Apr. 21, 1953. Class 16.

Reflinger Raincoat Mfg. Co., New York, N. Y. Men's and boys' rainwear. 577,001, July 7; Serial No. 628,429, published Apr. 14, 1953. Class 39.

Rich Products Corp., Buffalo, N. Y. Liquid foodstuff. 577,130, July 7; Serial No. 584,155. Class 46.

Ringers' Cacao- en Chocoladefabrieken, N. V., Alkmaar, Netherlands. Cocoa, cocoabutter, cocoa powder, etc. 576,939, July 7; Serial No. 618,404, published Apr. 21, 1953. Class 46.

Ringler, F. A., Company, New York, N. Y. Printing plates. 576,888, July 7; Serial No. 564,741, published Mar. 10, 1953. Class 50.

Roberts, Harry, Philadelphia, Pa. Hair cream. 577,152, July 7; Serial No. 630,794. Class 51.

Robinson Syrup & Canning Co.: *See*—
Robinson Syrup Company, Inc.

Robinson Syrup Company, Inc., doing business as Robinson Syrup & Canning Co., Cairo, Ga. Table syrups. 577,151, July 7; Serial No. 629,389. Class 46.

S. M. A. Corporation, Cleveland, Ohio, to American Home Products Corporation, doing business as Wyeth Laboratories, New York, N. Y., and Philadelphia, Pa. Milk. 303,476, renewed May 23, 1953. O. G. July 7. Class 46.

Sahyun Laboratories: *See*—
Sahyun, Melville.

Sahyun, Melville, doing business as Sahyun Laboratories, Santa Barbara, Calif. Vitamin mixture. 576,902, July 7; Serial No. 598,433, published Apr. 7, 1953. Class 18.

Saks & Company, New York, N. Y. Trunks, handbags, suit-cases, etc. 303,053, renewed May 9, 1953. O. G. July 7. Class 3.

Sanctuary, Inc., The, Effingham, Ill. Educational or recreational game. 577,015, July 7; Serial No. 630,515, published Apr. 21, 1953. Class 22.

Sandusky Crayon Company, Inc., to The American Crayon Company, Sandusky, Ohio. Crayons. 302,231, renewed Apr. 4, 1953. O. G. July 7. Class 37.

Sawyer's Inc., Portland, Oreg. Cameras. 577,040, July 7; Serial No. 633,170, published Mar. 3, 1953. Class 26.

Schneider, Dorothy, doing business as Continental Sales & Sewing Machine Co., Brooklyn, N. Y. Electric sewing machines. 577,041, July 7; Serial No. 633,171, published Apr. 14, 1953. Class 23.

Scholl Mfg. Co., Inc., The, New York, N. Y., and Chicago, Ill., to The Scholl Mfg. Co., Inc., Chicago, Ill. Analgesic cream. 305,473, renewed Aug. 15, 1953. O. G. July 7. Class 18.

Schweppes (Colonial & Foreign) Limited, to Schweppes (Overseas) Limited, London, England. Natural mineral and aerated drinking waters and ginger beer. 304,177, renewed June 27, 1953. O. G. July 7. Class 45.

Schweppes (Overseas) Limited: *See*—
Schweppes (Colonial & Foreign) Limited.

Seagram-Distillers Corporation: *See*—
Seagram, Joseph E., & Sons Limited.

Seagram, Joseph E., & Sons Limited, Waterloo, Ontario, Canada, to Seagram-Distillers Corporation, New York, N. Y. Whiskey and potable spirits. 300,769, renewed Feb. 7, 1953. O. G. July 7. Class 49.

Seagram, Joseph E., & Sons Limited, Waterloo, Ontario, Canada, to Seagram-Distillers Corporation, New York, N. Y. Whiskey and potable spirits. 301,726, renewed Mar. 14, 1953. O. G. July 7. Class 49.

Seagram, Joseph E., & Sons Limited, Waterloo, Ontario, Canada, to Seagram-Distillers Corporation, New York, N. Y. Whisky. 302,182, renewed Apr. 4, 1953. O. G. July 7. Class 49.

Seamprufe Incorporated, New York, N. Y. Women's apparel. 577,090, July 7; Serial No. 637,192, published Apr. 14, 1953. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Electrical goods. 576,891, July 7; Serial No. 570,657, published Mar. 31, 1953. Class 21.

Sears, Roebuck and Co., Chicago, Ill. Women's and misses' hosiery. 576,892, July 7; Serial No. 574,057, published Apr. 14, 1953. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Photographic and drawing equipment and supplies. 576,897, July 7; Serial No. 587,656, published Nov. 11, 1952. Class 26.

Sears, Roebuck and Co., Chicago, Ill. Cleansing tissues and toilet tissue. 576,958, July 7; Serial No. 622,031, published Feb. 17, 1953. Class 37.

Sears, Roebuck and Co., Chicago, Ill. Dresser sets. 576,959, July 7; Serial No. 622,032, published Feb. 10, 1953. Class 40.

Sears, Roebuck and Co., Chicago, Ill. Brushes. 577,112, July 7; Serial No. 639,901, published Apr. 14, 1953. Class 29.

Selcraft Products Co.: *See*—
Selsky, Albert.

Selsky, Albert, doing business as Selcraft Products Co., Brooklyn, N. Y. Games. 576,972, July 7; Serial No. 624,161, published Apr. 21, 1953. Class 22.

Seneca, Stephen J., to Chas. B. Silver & Son, Havre de Grace, Md. Canned vegetables and fruits. 50,291, Mar. 6, 1906. New certificate. O. G. July 7. Class 46.

Shack, Stephen G., Pittsburgh, Pa. Cast metal scrolls used for decorations. 552,911, Jan. 1, 1952. Cancelled May 22, 1953. O. G. July 7. Class 13.

Shasta Trailer Company: *See*—
Gray, Robert.

Shellabarger Mill & Elevator Company, Salina, Kans., to International Milling Company, Minneapolis, Minn. Grey shorts, wheat mixed feed and bran, and poultry feeds. 304,268, renewed June 27, 1953. O. G. July 7. Class 46.

Sherwin-Williams Company, The, Cleveland, Ohio. Paint enamels, paint primers, and thinners for use in paints, etc. 577,147, July 7; Serial No. 625,925. Class 16.

Siegel, Morris, Wilkes-Barre, Pa. Coffee. 576,948, July 7; Serial No. 620,172, published Mar. 31, 1953. Class 46.

Silex Company, The, Hartford, Conn. Stoves. 302,212, renewed Apr. 4, 1953. O. G. July 7. Class 34.

Siliphane Corp. of America, New York, N. Y. Silicone base protective coating. 576,986, July 7; Serial No. 626,271, published Apr. 21, 1953. Class 16.

Silver, Chas. B., & Son: *See*—
Seneca, Stephen J.

Simplex Time Recorder Co., Gardner, Mass. Card racks and card file boxes. 576,937, July 7; Serial No. 618,308, published Apr. 21, 1953. Class 32.

Singer Manufacturing Company, The, Elizabeth, N. J. 577,125, July 7. Renting of sewing machines to the public, and for engineering and consulting services, etc., Serial No. 629,694, published Mar. 31, 1953, Class 100; management engineering, Serial No. 629,693, published Mar. 31, 1953, Class 101; service, maintenance, and repair of home appliances, Serial No. 629,695, published Mar. 31, 1953, Class 103; fashion services, Serial No. 638,164, published Mar. 31, 1953, Class 106; teaching of hand and machine sewing, Serial No. 629,696, published Mar. 31, 1953, Class 107. (Consolidated certificate, Classes 100, 101, 103, 106 and 107.)

Singer Manufacturing Company, The, Elizabeth, N. J. 577,126, July 7. Renting of sewing machines to the public, and for engineering and consulting services, etc., Serial No. 629,699, published Mar. 31, 1953, Class 100; management engineering, Serial No. 629,698, published Mar. 31, 1953, Class 101; service, maintenance, and repair of home appliances, Serial No. 629,700, published Mar. 31, 1953, Class 103; fashion services, Serial No. 637,957 published Mar. 31, 1953, Class 106; teaching of hand and machine sewing, Serial No. 629,701, published Mar. 31, 1953, Class 107. (Consolidated certificate, Classes 100, 101, 103, 106 and 107.)

Smokador Manufacturing Co., Inc., Bloomfield, N. J. Ash receiver. 300,816, renewed Feb. 7, 1953. O. G. July 7. Class 8.

Snower, M., & Company: *See*—
Opelika Manufacturing Corporation.

Societe Anonyme Chocolat Tobler: *See*—
Aktiengesellschaft Chocolat Tobler.

Societe Anonyme des Nouveaux Etablissements Adolphe Puget, Marseille, France. Olive oil. 576,941, July 7; Serial No. 618,659, published Apr. 14, 1953. Class 46.

Societe a Responsabilite Limitee Champagne George Goulet: *See*—
Vve. George Goulet & Cie.

Societe a Responsabilite Limitee: Galland & Brochard Nantes-Chantenay (Loire-Inferieure), France. Stencils. 576,803, July 7; Serial No. 576,595, published Apr. 7, 1953. Class 37.

Society Brand Clothes, Inc., Chicago, Ill. Overcoats and topcoats. 576,944, July 7; Serial No. 619,481, published Feb. 24, 1953. Class 39.

Society for Visual Education, Inc., Chicago, Ill. Projector. 577,027, July 7; Serial No. 632,275, published Feb. 24, 1953. Class 26.

Soffer, Harry L., doing business under the name Monroe Food Products Co., Monroe, N. Y. Ready to use pancake batter. 577,114, July 7; Serial No. 640,171, published Apr. 21, 1953. Class 46.

Southwestern Broom Mfg. Co., Inc., The: *See*—
Southwestern Broom Mfg. Co., The.

Southwestern Broom Mfg. Co., The, to The Southwestern Broom Mfg. Co., Inc., Evansville, Ind. Brooms. 306,416, renewed Sept. 19, 1953. O. G. July 7. Class 29.

Squarey, Edward M., West Orange, N. J. Cellulose sponge dish mops. 577,119, July 7; Serial No. 641,219, published Apr. 21, 1953. Class 29.

Standard Brands Incorporated, New York, N. Y. Mixture of egg material and other substances suitable for use as an ingredient in making cakes and other food products. 306,750, renewed Sept. 26, 1953. O. G. July 7. Class 46.

Standard Brands Incorporated, New York, N. Y. Tea. 576,995, July 7; Serial No. 627,360, published Apr. 21, 1953. Class 46.

Standard Brands Incorporated, New York, N. Y. Tea and instant cocoa. 577,056, July 7; Serial No. 635,156, published Mar. 24, 1953. Class 46.

Stearns' Electric Paste Co.: *See*—
Stearns' Electric Paste Company, Inc.

Stearns' Electric Paste Company, Inc., to Stearns' Electric Paste Co., Chicago, Ill. Poison for rats, mice, etc. 304,350, renewed July 4, 1953. O. G. July 7. Class 6.

Stein, A., & Company, Chicago, Ill. Girdles and pantie girdles. 577,078, July 7; Serial No. 636,615, published Apr. 14, 1953. Class 39.

Stephano Brothers, Philadelphia, Pa. Cigarettes. 577,044, July 7; Serial No. 633,593, published Apr. 14, 1953. Class 17.

Stephens & Stephens, Fort Smith, Ark. Hosiery. 577,054, July 7; Serial No. 635,066, published Apr. 7, 1953. Class 39.

Stine & Goldman, Philadelphia, Pa., to Myer Goldman, Wilmington, Del. Men's, women's and children's leather, fabric and rubber shoes. 305,803, renewed Aug. 22, 1953. O. G. July 7. Class 39.

Stoddard Associated Milling Company, Napa, Calif. Prepared feeds. 576,976, July 7; Serial No. 624,428, published Apr. 14, 1953. Class 46.

Stork-Bound, Inc., New York, N. Y. Maternity wearing apparel. 577,062, July 7; Serial No. 635,557, published Apr. 14, 1953. Class 39.

Straub, W. F., & Company, Chicago, Ill. Table syrup. 576,951, July 7; Serial No. 620,752, published Apr. 21, 1953. Class 46.

Stuart Company, The, Pasadena, Calif. Lipotropic composition. 577,026, July 7; Serial No. 632,231, published Apr. 14, 1953. Class 18.

Sun-Pacific Inc., San Diego, Calif. Food products. 577,101, July 7; Serial No. 638,222, published Apr. 21, 1953. Class 46.

Tanner Milling Company: *See*—
Distributors Trucking Corporation.

Tattoo, Inc.: *See*—
Younghusband, James L.

Taylor Brothers, Inc., Winston-Salem, N. C. Plug, twist, and smoking tobacco. 576,880, July 7; Serial No. 525,443, published Oct. 30, 1951. Class 17.

Tempeco, Groves, Tempe, Ariz. Fresh citrus fruits, orange marmalade, and fruit preserves. 577,144, July 7; Serial No. 625,440. Class 46.

Tenna-Trailer Company, The: *See*—
Price, Kenneth B.

Tenney, Frank M., assignor to The National System of Garage Ventilation Inc., Decatur, Ill. Ventilating systems. 577,148, July 7; Serial No. 627, 286. Class 34.

Textile Mills Corporation, The, to Adams-Mills Corporation, High Point, N. C. Hosiery. 304,923, renewed July 25, 1953. O. G. July 7. Class 39.

Thun Investment Company, doing business as Gntelaunee Orchards, Reading and Leesport, Pa. Deciduous fruits. 576,890, July 7; Serial No. 568,879, published Mar. 31, 1953. Class 46.

Titanine Inc., Union, N. J. Cellulosic lacquer. 576,905, July 7; Serial No. 600,930, published Apr. 21, 1953. Class 16.

Todd Company, Inc., The: *See*—
Todd, G. W., & Company.

Todd, G. W., & Company, by The Todd Company, Inc., Rochester, N. Y. Machines, known as check-protectors. 92,147, June 17, 1913; republished July 7. Class 23.

Tomlin, Amos S., doing business under the trade name of Outwest Company, Houston, Tex. Meat sauce. 557,019, July 7; Serial No. 631,183, published Mar. 31, 1953. Class 46.

Tonk Manufacturing Co., by Tonk Manufacturing Co., Chicago, Ill. Piano-benches. 150,142, Dec. 27, 1921; republished July 7. Class 32.

Towlsaver, Inc., Los Angeles, Calif. Paper towel dispensing machines. 303,323, renewed May 23, 1953. O. G. July 7. Class 23.

Tract-R-Lift Corporation, Chicago, Ill. Fork lift type gasoline powered truck. 518,866, Dec. 13, 1949. Canceled June 5, 1953. O. G. July 7. Class 23.

Tryon Processing Co., Tryon, N. C. All types of natural and synthetic yarns. 577,055, July 7; Serial No. 635,155, published Apr. 14, 1953. Class 43.

Türhock, Wanda: *See*—
Hour Glass Productions.

Union Carbide and Carbon Corporation: *See*—
Carbide and Carbon Chemicals Corporation.

Union Special Machine Company, Chicago, Ill. Sewing machine needles. 301,996, Mar. 21, 1933; republished July 7. Class 23.

Union Special Machine Company, Chicago, Ill. Magazine. 304,292, June 27, 1933; republished July 7. Class 38.

United Biscuit Company of America, Chicago, Ill. Cookies and crackers. 576,960, July 7; Serial No. 622,045, published Apr. 21, 1953. Class 46.

United Injector Co., The, New York, N. Y. Valves, strainers and cocks. 59,681, Jan. 15, 1907. Amended. O. G. July 7. Class 13.

United States Rubber Company: *See*—
Naugatuck Chemical Company, The.
New York Belting & Packing Co. Ltd.

United States Rubber Company, New York, N. Y. Yarns. 577,095, July 7; Serial No. 637,509, published Apr. 21, 1953. Class 43.

Universal Dental Company, Philadelphia, Pa. Artificial teeth. 303,682, renewed June 6, 1953. O. G. July 7. Class 44.

Universal Pulleys Company: *See*—
Carey, Robert M.

Upmann, H., & Co., to Menendez Garcia y Compania Limitada, Habana, Cuba. Cigars. 89,518, re-renewed Dec. 17, 1952. O. G. July 7. Class 17.

Vve. George Goulet & Cie, to Societe a Responsabilite Limitee Champagne George Goulet, Reims, France. Champagne and wines. 304,706, renewed July 18, 1953. O. G. July 7. Class 47.

Valencia Heights Orchards Association: *See*—
Valencia Heights Orchards, Inc.

Valencia Heights Orchards, Inc., to Valencia Heights Orchards Association, Covina, Calif. Fresh citrus fruits. 302,306, renewed Apr. 11, 1953. O. G. July 7. Class 46.

Vanity Fair Mills, Inc.: *See*—
Vanity Fair Silk Mills.

Vanity Fair Silk Mills, to Vanity Fair Mills, Inc., Reading, Pa. Knitted and textile underwear and hosiery. 305,748, renewed Aug. 22, 1953. O. G. July 7. Class 39.

Vanity Fair Silk Mills, to Vanity Fair Mills, Inc., Reading, Pa. Hosiery and knitted and textile underwear. 305,802, renewed Aug. 22, 1953. O. G. July 7. Class 39.

Van Valkenburgh, Hugh C., Seattle, Wash., assignee of Caravan Trading Co., Inc. Bottled natural fruit juice. 576,885, July 7; Serial No. 347,426, published Apr. 14, 1953. Class 46.

Vette Company: *See*—
Lanning, Clair.

Victory Optical Manufacturing Co., Newark, N. J. Spectacle frames. 577,046, July 7; Serial No. 633,825, published Mar. 10, 1953. Class 26.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Wines. 305,048, renewed Aug. 22, 1953. O. G. July 7. Class 47.

Virginia Maid Hosiery Mills, Inc., Pulaski, Va. Women's full fashioned hosiery. 576,994, July 7; Serial No. 626,024, published Apr. 7, 1953. Class 39.

Wagner Tool & Supply Corp., Long Island City, N. Y. Replacement electric wire terminals. 576,894, July 7; Serial No. 583,625, published Apr. 7, 1953. Class 21.

Wald Manufacturing Company, Mayaville, Ky. Bicycle and motorcycle parts and accessories. 576,907, July 7; Serial No. 601,855, published Apr. 21, 1953. Class 19.

Walgreen Co., Chicago, Ill. Golf balls. 302,302, renewed Apr. 11, 1953. O. G. July 7. Class 22.

Walgreen Co., Chicago, Ill. Golf balls. 302,356, renewed Apr. 11, 1953. O. G. July 7. Class 22.

Walker, Alvin J., Sr., Delphos, Ohio. Money bags. 577,140, July 7; Serial No. 619,416. Class 2.

Wander Company, The, Chicago, Ill. Analgesic preparation. 577,033, July 7; Serial No. 632,762, published Apr. 7, 1953. Class 18.

Wander Company, The, Chicago, Ill. Therapeutic preparation. 577,034, July 7; Serial No. 632,763, published Apr. 7, 1953. Class 18.

Waynesburg Milling Company, Waynesburg, Pa. Dog and cat food, poultry and stock feed. 576,942, July 7; Serial No. 618,768, published Apr. 14, 1953. Class 46.

Wear-Right Gloves, Inc., New York, N. Y. Fabric gloves. 577,038, July 7; Serial No. 633,094, published Apr. 14, 1953. Class 39.

West Bend Aluminum Co., West Bend, Wis. Electric immersion heaters. 305,055, renewed July 25, 1953. O. G. July 7. Class 21.

West Bend Aluminum Co., West Bend, Wis. Base metal cooking hollow ware. 305,163, renewed Aug. 8, 1953. O. G. July 7. Class 13.

White Laboratories, Inc.: *See*—
Health Products Corporation.

Whiteman Food Products Company, Philadelphia, Pa. Fancy sweet mixed pickles, sweet dill strips, sweet pickle chips, etc. 577,092, July 7; Serial No. 637,413, published Apr. 7, 1953. Class 46.

Whitewater Flour Mills Company, The, Whitewater, Kans. Wheat flour and self-rising wheat flour. 576,978, July 7; Serial No. 624,578, published Apr. 21, 1953. Class 46.

Wolfson & Greenbaum, Inc., New York, N. Y. Ladies' and misses' dresses, blouses and outer shirts. 577,053, July 7; Serial No. 635,012, published Apr. 14, 1953. Class 39.

Woodill Motor Company, Downey, Calif. Sport motor cars. 577,117, July 7; Serial No. 640,878, published Apr. 21, 1953. Class 19.

Woolfe, Aaron E., Miami Beach, Fla. Artificial fishing lures. 577,047, July 7; Serial No. 634,356, published Mar. 31, 1953. Class 22.

Woolson Spice Company, The, Toledo, Ohio. Tea. 93,576, re-renewed Sept. 23, 1953. O. G. July 7. Class 46.



Wright Manufacturing Company, Houston, Tex. Instruments to visually detect the presence and the source of harmful gamma or X radiation. 576,971, July 7; Serial No. 624,065, published Mar. 3, 1953. Class 26.

Wyeth Laboratories: *See*—
S. M. A. Corporation.

Yocum Bros., Inc., Reading, Pa. Cigars. 577,093, July 7; Serial No. 637,416, published Apr. 21, 1953. Class 17.

Younghusband, James L., Chicago, Ill., to Tattoo, Inc., New York, N. Y. Lipsticks. 306,254, renewed Sept. 12, 1953. O. G. July 7. Class 51.

Youth Mode Bags, Inc., New York, N. Y. Misses' and children's handbags, pocketbooks and purses. 577,065, July 7; Serial No. 635,068, published Apr. 21, 1953. Class 3.

Zion Industries, Inc., Zion, Ill. Cookies and cakes. 577,113, July 7; Serial No. 639,974, published Apr. 14, 1953. Class 46.

Zuckerman Mandeville Inc., Stockton, Calif. Fresh celery. 576,962, July 7; Serial No. 622,288, published Apr. 21, 1953. Class 46.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Fur skins. A. Hollander & Son, Inc. 301,400, renewed Feb. 28, 1953. O. G. July 7.

Fur skins. A. Hollander & Son, Inc. 301,404, renewed Feb. 28, 1953. O. G. July 7.

Latex composition. The Naugatuck Chemical Company. 304,318, renewed June 27, 1953. O. G. July 7.

Leather. Eagle-Ottawa Leather Company. 303,444, May 23, 1933. Republished July 7.

Leather. Eagle-Ottawa Leather Company. 303,447, May 23, 1933. Republished July 7.

Leather. Eagle-Ottawa Leather Company. 354,078–9, Feb. 1, 1938. Republished July 7.

Leather. Eagle-Ottawa Leather Company. 438,939–42, May 18, 1948. Republished July 7.

Leather. Eagle-Ottawa Leather Company. 439,115, June 1, 1948. Republished July 7.

Rubber sponges. Edward E. Gurian & Co., Inc. 577;129, July 7; Serial No. 560,702.

Thermoplastic film, etc. J. L. Haber & Company. 420,407, Apr. 9, 1946. Canceled May 22, 1953. O. G. July 7.

Wood pulp. Aktiebolaget Iggesunds Bruk. 303,907, renewed June 13, 1953. O. G. July 7.

## CLASS 2

Bags, Money. A. J. Walker, Sr. 577,140, July 7; Serial No. 619,416.

Bags, Paper merchandise. Orchard Paper Co. 577,146, July 7; Serial No. 625,485.

Boxes, Finger ring. Melmar, Inc. 577,128, July 7; Serial No. 550,807.

Boxes, Paperboard. The Flintkote Company. 577,141, July 7; Serial No. 621,879.

Compacts. Elizabeth Arden, Inc. 396,303, July 7, 1942. Republished July 7.

## CLASS 3

Billfolds. Enger-Kress Company. 577,067, July 7; Serial No. 635,750, published Apr. 14, 1953.

Handbags and wallets. Lumured Plastic Corp. 577,064, July 7; Serial No. 635,601, published Apr. 21, 1953.

Handbags, pocketbooks and purses, Misses' and children's, Youth Mode Bags, Inc. 577,065, July 7; Serial No. 635,068, published Apr. 21, 1953.

Traveling bags. Elizabeth Arden Sales Corporation. 394,838, Apr. 28, 1942. Republished July 7.

Trunks, handbags, suit-cases etc. Saks & Company. 303,053, renewed May 9, 1953. O. G. July 7.

Wallets and pocketbooks. Eastern Seaboard Plastics, Inc. 576,950, July 7; Serial No. 620,666, published Apr. 21, 1953.

## CLASS 4

Abrasives, Granulated. Agrashell, Inc. 576,961, July 7; Serial No. 622,136, published Apr. 21, 1953.

Buffing and polishing wheels, sheets of polishing felt, and buffing composition. Divine Brothers Company. 576,903, July 7; Serial No. 590,369, published Jan. 22, 1952.

Buffing compounds. Pelron Corporation. 577,051, July 7; Serial No. 634,757, published Apr. 7, 1953.

Nonabrasive ground corncob meal for use in industry as a cleaning and polishing preparation. E. J. Altorfer. 577,024, July 7; Serial No. 632,007, published Apr. 21, 1953.

## CLASS 6

Dyestuffs. General Dyestuff Corporation. 306,207, renewed Sept. 12, 1953. O. G. July 7.

Insecticide and disinfectant. J. W. Bullen. 304,514, renewed July 11, 1953. O. G. July 7.

Moth repellant. Odora Company, Inc. 301,518, renewed Mar. 7, 1933. O. G. July 7.

Poison for rats, mice, etc. Stearns' Electric Paste Company, Inc. 304,350, renewed July 4, 1953. O. G. July 7.

Silanes, siloxanes, silicon chemicals, etc. Dow Corning Corporation. 576,945, July 7; Serial No. 619,808, published Apr. 7, 1953.

Silanes, siloxanes, silicon chemicals, etc. Dow Corning Corporation. 576,946, July 7; Serial No. 619,815, published Apr. 7, 1953.

Solvents for use in oil refining. Carbide and Carbon Chemicals Corporation. 305,207, renewed Aug. 8, 1953. O. G. July 7.

Sulfonated alcohols. E. I. du Pont de Nemours and Company. 304,032, renewed June 20, 1953. O. G. July 7.

## CLASS 7

Cords, twines, ropes and clothes-lines. Henry C. Kelley Company. 93,184, re-renewed Aug. 26, 1953. O. G. July 7.

Cords, twines, ropes and lines. Henry C. Kelley Company. 91,971, re-renewed June 10, 1953. O. G. July 7.

Cords, twines, ropes, and lines. Henry C. Kelley Company. 92,560–1, re-renewed July 15, 1953. O. G. July 7.

## CLASS 8

Ash receivers. Smokador Manufacturing Co., Inc. 300,816, renewed Feb. 7, 1953. O. G. July 7.

Pipes, Tobacco, cigar and cigarette bolders and filters. S. M. Frank & Co., Inc. 304,767, renewed July 18, 1953. O. G. July 7.

Pipes, Tobacco, filters, and cigar and cigarette holders. S. M. Frank & Co., Inc. 304,764, renewed July 18, 1953. O. G. July 7.

Smokers' articles. Cleevelandt Corporation. 577,012, July 7; Serial No. 629,988, published Apr. 21, 1953.

## CLASS 10

Plant food, Soluble. Naco Fertilizer Company. 577,150, July 7; Serial No. 629,313.

Soil conditioning material. Karlson-Scott Chemical Corporation. 577,099, July 7; Serial No. 637,927, published Apr. 21, 1953.

## CLASS 11

Ink dispensing devices. The National Cash Register Company. 576,956, July 7; Serial No. 621,777, published Apr. 21, 1953.

Ink impregnated fabric ribbons and carbon coated paper ribbons. Commercial Controls Corporation. 576,940, July 7; Serial No. 618,482, published Mar. 31, 1953.

## CLASS 12

Coffer-dams, Portable. Masonry Resurfacing & Construction Co., Inc. 577,138, July 7; Serial No. 614,093.

Gypsum wall board and lath; gauging and casting plaster; fibered and unfibered hardwall plaster, etc. Kaiser Gypsum Company. 576,915, July 7; Serial No. 607,550, published Mar. 10, 1953.

Putty. J. F. Lentzinger. 577,142, July 7; Serial No. 622,548.

## CLASS 13

Base metal cooking hollow ware. West Bend Aluminum Co. 305,163, renewed Aug. 8, 1953. O. G. July 7.

Scrolls used for decorations, Cast metal. S. G. Shack. 552,911, Jan. 1, 1952. Canceled May 22, 1953. O. G. July 7.

Valves, strainers and cocks. The United Injector Co. 59,681, Jan. 15, 1907. Amended. O. G. July 7.

## CLASS 14

Malleable castings, cast iron castings, etc. Kencroft Malleable Co., Inc. 577,137, July 7; Serial No. 608,547.

Tool-steel. Crucible Steel Company of America. 40,841, re-renewed July 28, 1953. O. G. July 7.

## CLASS 15

Chemical compositions employed as fuel oil additives. The Perolin Company, Inc. 577,009, July 7; Serial No. 629,317, published Apr. 14, 1953.

## CLASS 16

Bituminous emulsions and emulsion compounds for use as protective coatings. The Flintkote Corporation. 305,188, renewed Aug. 8, 1953. O. G. July 7.

Coating, Silicone base protective. Sillphane Corp. of America. 576,986, July 7; Serial No. 626,271, published Apr. 21, 1953.

Coatings in the nature of a paint, Plastic. D. B. Barber. 576,881, July 7; Serial No. 528,905, published Apr. 7, 1953.

Coatings, Paint booth, paint coagulators, and oil and resin base paint. Pelron Corporation. 577,050, July 7; Serial No. 634,755, published Mar. 17, 1953.

Lacquer, Cellulosic. Titanine Inc. 576,905, July 7; Serial No. 600,930, published Apr. 21, 1953.

Mildewride used in protective coatings. F. O. Pierce Company. 577,080, July 7; Serial No. 636,651, published Apr. 21, 1953.

Paint enamels, paint primers, and thinners for use in paints, etc. The Sherwin-Williams Company. 577,147, July 7; Serial No. 625,925.

Paint lacquers and paint and baking enamels. Pittsburgh Plate Glass Company. 576,884, July 7; Serial No. 544,275, published Apr. 7, 1953.

Paint, Rubber latex. F. O. Pierce Company. 577,079, July 7; Serial No. 636,650, published Apr. 21, 1953.

Paints. The Bituring Company of America. 93,064, re-renewed Aug. 19, 1953. O. G. July 7.

Paints, Dry, paste, and ready-mixed, and varnishes. Hall Hardware Company. 305,819, renewed Aug. 22, 1953. O. G. July 7.

Solution of resin, oil, and volatile solvent as a surface coating or sealant. American Fluresit Company, Inc. 576,886, July 7; Serial No. 557,173, published Apr. 21, 1953.

Surface tar emulsion sealer. Reilly Tar & Chemical Corporation. 576,926, July 7; Serial No. 615,413, published Apr. 21, 1953.

CLASS 17

Cigarettes. Stephano Brothers. 577,044, July 7; Serial No. 633,593, published Apr. 14, 1953.

Cigars. H. Upmann & Co. 89,518, re-renewed Dec 17, 1952. O. G. July 7.

Cigars. Yocum Bros., Inc. 577,093, July 7; Serial No. 637,416, published Apr. 21, 1953.

Snuff. George W. Helme Company. 576,918, July 7; Serial No. 610,248, published Apr. 21, 1953.

Tobacco, Cigarette. Brown & Williamson Tobacco Corporation. 306,574, renewed Sept. 26, 1953. O. G. July 7.

Tobacco, Plug, twist, and smoking. Taylor Brothers, Inc. 576,880, July 7; Serial No. 525,443, published Oct. 30, 1951.

CLASS 18

Analgesic cream. The Scholl Mfg. Co., Inc. 305,473, renewed Aug. 15, 1953. O. G. July 7.

Analgesic preparation. The Wander Company. 577,033, July 7; Serial No. 632,762, published Apr. 7, 1953.

Anti-spasmodic. Kremers-Urban Company. 576,984, July 7; Serial No. 625,743, published Apr. 7, 1953.

Cod liver oil concentrate. Health Products Corporation. 306,754, renewed Sept. 26, 1953. O. G. July 7.

Composition containing d-desoxyephedrine hydrochloride and vitatoins prepared for use as a cerebral stimulant and source of vitamins. Abbott Laboratories. 577,061, July 7; Serial No. 635,508, published Apr. 7, 1953.

Feed supplements. Dawes Products Company. 577,020, July 7; Serial No. 632,507, published Apr. 7, 1953.

Formula for the relief of pain and muscle spasm. Mutual Pharmacal Company, Inc. 577,070, July 7; Serial No. 636,087, published Apr. 14, 1953.

Lipotropic composition. The Stuart Company. 577,026, July 7; Serial No. 632,231, published Apr. 14, 1953.

Medicinal hormone preparation. Chemical Specialties Co., Inc. 577,059, July 7; Serial No. 635,401, published Apr. 7, 1953.

Medicinal laxative preparation. Allen & Hanburys, Limited. 304,065, renewed June 20, 1953. O. G. July 7.

Medicinal preparations. The Bowman Brothers Drug Co. 576,969, July 7; Serial No. 623,300, published Apr. 21, 1953.

Ointment. E. T. Browne Drug Company, Inc. 305,635, renewed Aug. 22, 1953. O. G. July 7.

Penicillin derivative. Bristol Laboratories Inc. 577,084, July 7; Serial No. 636,965, published Apr. 7, 1953.

Preparation containing the uterine relaxing factor of the corpus luteum. Hynson, Westcott & Dunning, Incorporated. 577,063, July 7; Serial No. 635,596, published Apr. 7, 1953.

Specially processed, micronized barium sulfate. Barnes-Hind Laboratories. 577,035, July 7; Serial No. 632,866, published Apr. 7, 1953.

Therapeutic preparation. The Wander Company. 577,034, July 7; Serial No. 632,763, published Apr. 7, 1953.

Vitamin concentrates, Stabilized. Nopco Chemical Company. 577,068, July 7; Serial No. 635,972, published Apr. 14, 1953.

Vitamin mixture. M. Sahyun. 576,902, July 7; Serial No. 538,433, published Apr. 7, 1953.

CLASS 19

Ambulance bodies and funeral car bodies. Guy Harnette & Company, Inc. 577,096, July 7; Serial No. 637,538, published Apr. 21, 1953.

Automobile seat covers. Rayco Mfg. Co. 576,999, July 7; Serial No. 628,170, published Apr. 21, 1953.

Bicycle and motorcycle parts and accessories. Wald Manufacturing Company. 576,907, July 7; Serial No. 601,855, published Apr. 21, 1953.

Boats. Colonial Boat Works, Inc. 577,105, July 7; Serial No. 638,522, published Apr. 21, 1953.

Cars, Railroad, and structural railroad car parts. Marshall Railway Equipment Corporation. 577,116, July 7; Serial No. 640,864, published Apr. 21, 1953.

Cars, Sport motor. Woodill Motor Company. 577,117, July 7; Serial No. 640,878, published Apr. 21, 1953.

Leaf springs and coil springs for vehicles and tie rod ends. Pan American Trade Development Corp. 577,123, July 7; Serial No. 642,043, published Apr. 21, 1953.

Railway friction draft gears and friction bolster springs. Cardwell Westinghouse Company. 577,111, July 7; Serial No. 639,314, published Apr. 21, 1953.

Trailers, House. R. Gray. 577,100, July 7; Serial No. 637,992, published Apr. 21, 1953.

Vehicle for transporting, erecting, and supporting a television antenna. K. R. Price. 577,025, July 7; Serial No. 632,175, published Apr. 21, 1953.

CLASS 21

Electric floor brushing, scrubbing, rubbing and polishing machines, parts and accessories. General Floorcraft, Inc. 576,923, July 7; Serial No. 612,738, published Apr. 14, 1953.

Electric immersion heaters. West Bend Aluminum Co. 305,035, renewed July 25, 1953. O. G. July 7.

Electric motors. Thomas A. Edison, Incorporated. 305,381, renewed Aug. 15, 1953. O. G. July 7.

Electric water heaters, Automatic. National Steel Construction Co. 576,909, July 7; Serial No. 603,410, published Apr. 14, 1953.

Electric wire terminals, Replacement. Wagner Tool & Supply Corp. 576,894, July 7; Serial No. 583,625, published Apr. 7, 1953.

Electrical appliances. McGraw Electric Company. 576,925, July 7, Serial No. 613,597, published Apr. 14, 1953.

Electrical goods. Sears, Roebuck and Co. 576,891, July 7; Serial No. 570,657, published Mar. 31, 1953.

Electrically-operated central dictation systems. Dictaphone Corporation. 576,983, July 7; Serial No. 625,465, published Apr. 14, 1953.

Electrically operated sounding horns, signals, alarms and parts thereof, etc. General Motors Corporation. 576,943, July 7; Serial No. 619,339, published Apr. 14, 1953.

Goods made of vulcanized fiber for electrical purposes. Diamond State Fibre Company. 93,267, re-renewed Sept. 2, 1953. O. G. July 7.

Magnetic dictating and transcribing machines. E. M. I. Factories Limited. 576,975, July 7; Serial No. 624,333, published Apr. 14, 1953.

Motors, electric turn-tables, antenna rotators, etc. The Alliance Manufacturing Company. 576,949, July 7; Serial No. 620,655, published Apr. 14, 1953.

Radio receiving sets, radio television sets, and parts therefor. M. M. Gruhn. 302,172, renewed Apr. 4, 1953. O. G. July 7.

Radio transmitters, radio knobs and dials, variable frequency oscillators, etc. E. F. Johnson Company. 577,073, July 7; Serial No. 636,421, published Apr. 14, 1953.

Tubes, Voltage regulating. Bendix Aviation Corporation. 577,076, July 7; Serial No. 636,583, published Apr. 14, 1953.

CLASS 22

Balls, Golf. The Associated Merchandising Corporation. 577,120–2, July 7; Serial Nos. 641,891–3, published Apr. 21, 1953.

Baseball gloves. Rawlings Manufacturing Company. 576,987, July 7; Serial No. 626,592, published Apr. 21, 1953.

Casting lines for fishing. Clevelaud Mills Co. 576,973, July 7; Serial No. 624,182, published Apr. 21, 1953.

Dolls. American Character Doll Co. 577,104, July 7; Serial No. 638,463, published Apr. 21, 1953.

Fish lines. Cortland Line Company, Inc. 577,124, July 7; Serial No. 642,068, published Apr. 21, 1953.

Fishing lures, Artificial. A. E. Woolfe. 577,047, July 7; Serial No. 634,356, published Mar. 31, 1953.

Fishing tackle. E. L. Graham. 577,102, July 7; Serial No. 638,361, published Apr. 21, 1953.

Game, Educational or recreational. The Sanctuary, Inc. 577,015, July 7; Serial No. 630,515, published Apr. 21, 1953.

Games. A. Selsky. 576,972, July 7; Serial No. 624,161, published Apr. 21, 1953.

Golf balls. Walgreen Co. 302,302, renewed Apr. 11, 1953. O. G. July 7.

Golf balls. Walgreen Co. 302,356, renewed Apr. 11, 1953. O. G. July 7.

Nets for use in the fishing industry. Drummondville Cotton Company, Limited. 577,010, July 7; Serial No. 620,778, published Apr. 21, 1953.

Outdoor type hammocks. Kronke Co. 576,895, July 7; Serial No. 584,064, published Apr. 21, 1953.

Reel for fishing tackle, Spinning. Chas. Garcia & Co., Inc. 576,963, July 7; Serial No. 622,434, published Apr. 21, 1953.

Toy, Hammer. J. Morrison. 577,136, July 7; Serial No. 606,d24.

Toy watches. Ever Tick Corporation. 577,133, July 7; Serial No. 593,863.

Toys, Children's. American Toy and Furniture Company, Inc. 577,115, July 7; Serial No. 640,386, published Apr. 21, 1953.

CLASS 23

Can openers. Daxey Corporation. 567,004, Nov. 18, 1952. Canceled May 22, 1953. O. G. July 7.

Carpet sweepers, food choppers, can openers, etc. Affiliated Retailers, Inc. 576,924, July 7; Serial No. 612,886, published Mar. 31, 1953.



Concrete mixing units. R. M. Carey. 577,020, July 7; Serial No. 631,401, published Mar. 31, 1953.

Cultivators, Garden. S. L. Allen & Co., Inc. 306,116, renewed Sept. 5, 1953. O. G. July 7.

Dispensing machines, Paper towel. Towlsaver, Inc. 303,323, renewed May 23, 1953. O. G. July 7.

Drilling machines, milling machines, boring machines, etc. The Cross Company. 576,889, July 7; Serial No. 565,046, published Mar. 24, 1953.

Flotation and aeration machines, Industrial. The Gallgher Company. 576,911, July 7; Serial No. 603,678, published Apr. 7, 1953.

Fork lift type gasoline powered truck. Tract-R-Lift Corporation. 518,866, Dec. 13, 1949. Canceled June 5, 1953. O. G. July 7.

Fractionating towers. General Ceramics and Steatite Corp. 576,929, July 7; Serial No. 616,167, published Mar. 10, 1953.

Hose reel, Automatic. Oildfield Equipment Company. 577,098, July 7; Serial No. 637,666, published Apr. 7, 1953.

Internal combustion engines. Kohler Co. 577,058, July 7; Serial No. 635,365, published Mar. 17, 1953.

Knife sheaths, knife sheaths containing knife sets, knife and axe sheaths, etc. Fisher-Denver Company, Inc. 576,900, July 7; Serial No. 591,025, published Mar. 3, 1953.

Knitting machines. Jacquard Knitting Machine Co., Inc. 576,904, July 7; Serial No. 599,437, published Mar. 3, 1953.

Loom checkstraps. The Dayton Rubber Company. 576,928, July 7; Serial No. 616,083, published Apr. 7, 1953.

Machines, known as check-protectors. G. W. Todd & Company. 92,147, June 17, 1913. Republished July 7, 1953.

Materials-handling equipment. Lewis-Shepard Products, Inc. 576,953, July 7; Serial No. 621,370, published Mar. 31, 1953.

Mechanical clutches, clutch plates, and parts thereof. The Borg & Beck Company. 300,396, renewed Jan. 17, 1953. O. G. July 7.

Mending machine, Hosiery. Marvel Specialty Company, Incorporated. 576,968, July 7; Serial No. 623,283, published Mar. 10, 1953.

Poultry plucking machines and parts thereof. Gordon Johnson Company. 577,031, July 7; Serial No. 632,616, published Mar. 10, 1953.

Saw blades, Hand back, hack saw frames, power hack saw blades, etc. The Capewell Manufacturing Company. 577,017–18, July 7; Serial Nos. 631,142–3, published Mar. 10, 1953.

Saws, Power driven masonry. Clipper Manufacturing Company. 577,071, July 7; Serial No. 636,206, published Mar. 31, 1953.

Sewing machine needles. Union Special Machine Company. 301,996, Mar. 21, 1933. Republished July 7, 1953.

Sewing machines, Electric. D. Schneider. 577,041, July 7; Serial No. 633,171, published Apr. 14, 1953.

Tableware. Englishtown Cutlery, Ltd. 444,781, July 7; Serial No. 507,311, published Mar. 31, 1953.

Textile roller coverings and drafting aprons for textile machinery. George Angus and Company, Limited. 576,934, July 7; Serial No. 617,599, published Apr. 14, 1953.

Tire repair materials and tools. Paul E. Hawkinson Company. 576,966, July 7; Serial No. 622,826, published Mar. 10, 1953.

Tools and parts thereof, Machine. De Vleg Machine Company. 577,008, July 7; Serial No. 629,235, published Mar. 3, 1953.

Tools, Metal working. Eldnrado Tool and Manufacturing Corp. 572,908, Apr. 7, 1953. Corrected. O. G. July 7.

Type casting, setting, and composing machines. International Typesetting Machine Company. 91,876, re-renewed June 3, 1953. O. G. July 7.

CLASS 24

Dry cleaning machinery, Motor-driven. M. Blau. 577,042, July 7; Serial No. 633,251, published Apr. 7, 1953.

Drying machines, Textile. Bendix Home Appliances Division Avco Manufacturing Corporation. 577,086, July 7; Serial No. 637,106, published Apr. 7, 1953.

Ironing board covers. Proctor Electric Company. 577,091, July 7; Serial No. 637,327, published Apr. 14, 1953.

Ironing board pads and ironing board pad covers. Pressing Supply Company. 577,077, July 7; Serial No. 636,604, published Apr. 14, 1953.

Ironing boards, ironing board covers, press covers, etc. Arkwright Merchandising Corporation. 576,964, July 7; Serial No. 622,524, published Apr. 7, 1953.

Ironing machines, Textile. Bendix Home Appliances Division Avco Manufacturing Corporation. 577,087, July 7; Serial No. 637,107, published Apr. 7, 1953.

Ironing pads and covers. Pilgrim Novelty Corporation. 577,049, July 7; Serial No. 634,712, published Apr. 14, 1953.

Washing machines, Textile. Bendix Home Appliances Division Avco Manufacturing Corporation. 577,088, July 7; Serial No. 637,108, published Apr. 7, 1953.

CLASS 25

Locks, End door. Pullman-Standard Car Manufacturing Company. 576,913, July 7; Serial No. 605,269, published Apr. 14, 1953.

CLASS 26

Cameras. Sawyer's, Inc. 577,040, July 7; Serial No. 633,170, published Mar. 3, 1953.

Dash board instruments. Fratelli Borletti Societâ per Azioni. 576,955, July 7; Serial No. 621,623, published Mar. 3, 1953.

Fluid pressure control instrument, unit comprising automatic-manual selector valve with indicator, etc. Bailey Meter Company. 577,135, July 7; Serial No. 603,280.

Hygrometers. American Instrument Company, Inc. 577,013, July 7; Serial No. 630,109, published Feb. 24, 1953.

Instruments to visually detect the presence and the source of harmful gamma or X radiation. Wright Manufacturing Company. 576,971, July 7; Serial No. 624,065, published Mar. 3, 1953.

Laboratory stirrer, Power driven. Omega Machine Company. 576,932, July 7; Serial No. 617,055, published Mar. 10, 1953.

Motion picture films, Finished. Hour Glass Productions. 576,927, July 7; Serial No. 616,066, published Mar. 10, 1953.

Photographic and drawing equipment and supplies. Sears, Roebuck and Co. 576,897, July 7; Serial No. 587,656, published Nov. 11, 1952.

Photographic lenses. Ercona Camera Corporation. 577,014, July 7; Serial No. 630,320, published Feb. 24, 1953.

Projector. Society for Visual Education, Inc. 577,027, July 7; Serial No. 632,275, published Feb. 24, 1953.

Radio direction finding apparatus, automatic pilot apparatus, electronic temperature control apparatus, etc. Lear, Incorporated. 576,912, July 7; Serial No. 603,888, published Mar. 3, 1953.

Rules, Slide. Eugene Dietzgen Co. 576,882, July 7; Serial No. 531,452, published Sept. 6, 1949.

Slide-rule type calculator. Multi-Aid Computer Corp. 576,936, July 7; Serial No. 618,176, published Mar. 3, 1953.

Spectacle frames. Victory Optical Manufacturing Co. 577,046, July 7; Serial No. 633,825, published Mar. 10, 1953.

CLASS 28

Silver and plated articles of tableware. The American Silver Company. 40,724, re-renewed July 7, 1953. O. G. July 7.

CLASS 29

Brooms. The Southwestern Broom Mfg. Co. 306,416, renewed Sept. 19, 1953. O. G. July 7.

Brushes. Sears, Roebuck and Co. 577,112, July 7; Serial No. 639,901, published Apr. 14, 1953.

Brushes, Hand wire. The Beryllium Corporation. 577,037, July 7; Serial No. 632,916, published Apr. 21, 1953.

Brushes, Paint. American Brush Co., Inc. 577,094, July 7; Serial No. 637,472, published Mar. 17, 1953.

Dish mops, Cellulose sponge. E. M. Squarey. 577,119, July 7; Serial No. 641,219, published Apr. 21, 1953.

CLASS 32

Card racks and card file boxes. Simplex Time Recorder Co. 576,937, July 7; Serial No. 618,308, published Apr. 21, 1953.

Mattresses and box springs. International Furniture Company. 576,887, July 7; Serial No. 557,455, published Apr. 21, 1953.

Piano-benches. Tonk Manufacturing Co. 150,142, Dec. 27, 1921. Republished July 7.

CLASS 34

Stoves. The Silex Company. 302,212, renewed Apr. 4, 1953. O. G. July 7.

Ventilating systems. F. M. Tenney. 577,148, July 7; Serial No. 627,286.

CLASS 35

Belting, hose, and packing. New York Belting & Packing Co. Ltd. 91,013, re-renewed Apr. 8, 1953. O. G. July 7.

CLASS 36

Educational appliances, comprising illustrated charts and instructions printed thereon and supplemented by instructions recorded upon sound reproducing devices. F. M. Lewis. 185,807, June 24, 1924. Republished July 7.

Talking-machines and talking-machine records. Columbia Graphophone Company. 93,428, re-renewed Sept. 16, 1953. O. G. July 7.

Violins, violas, violoncellos, double basses, etc. C. Meisel, Inc. 302,220, renewed Apr. 4, 1953. O. G. July 7.

CLASS 37

Book-paper. American Writing Paper Co. 92,388, re-renewed July 8, 1953. O. G. July 7.

Crayons. Sandusky Crayon Company, Inc. 302,231, renewed Apr. 4, 1953. O. G. July 7.

Erasers, Rubber. A. W. Faber-Castell Pencil Co., Inc. 577,021, July 7; Serial No. 631,552, published Apr. 7, 1953.
Paper, Clay coated. The Martin-Cantine Company. 301,233, renewed Feb. 21, 1953. O. G. July 7.
Paper, Printing. Crown Zellerbach Corporation. 577,069, July 7; Serial No. 636,000, published Apr. 21, 1953.
Paper, Toilet. Northern Paper Mills. 304,775, renewed July 18, 1953. O. G. July 7.
Paper, Toilet. Northern Paper Mills. 305,106, renewed Aug. 1, 1953. O. G. July 7.
Paper, Writing, and envelopes. George B. Hurd, Inc. 576,883, July 7; Serial No. 541,844, published Apr. 7, 1953.
Paper, Writing, and mailing envelopes. Harrison-Simpson Co. Inc. 577,022, July 7; Serial No. 631,734, published Apr. 7, 1953.
Papers, Waterproof. Edgewater Paper Company. 576,899, July 7; Serial No. 589,202, published Apr. 14, 1953.
Pencils, Wood cased lead. Mallard Pencil Co. Inc. 576,988, July 7; Serial No. 626,800, published Feb. 17, 1953.
Pencils, Wood cased lead. Mallard Pencil Co. Inc. 576,989, July 7; Serial No. 626,802, published Feb. 17, 1953.
Pencils, Wood cased lead. Mallard Pencil Co., Inc. 576,990, July 7; Serial No. 626,804, published Feb. 17, 1953.
Pencils, Wood cased lead. Mallard Pencil Co. Inc. 576,991, July 7; Serial No. 626,805, published Feb. 17, 1953.
School tablets, paper pads, blank books, etc. Birmingham Paper Company. 576,957, July 7; Serial No. 622,007, published Dec. 30, 1952.
Stencils. Societe a Responsabilite Limitee: Galland & Brochard. 576,893, July 7; Serial No. 576,595, published Apr. 7, 1953.
Tissue, Facial, and toilet tissue. The May Department Stores Company. 577,003, July 7; Serial No. 628,772, published Feb. 17, 1953.
Tissues, All-purpose absorbent paper. International Cellucotton Products Company. 577,005, July 7; Serial No. 629,020, published Feb. 17, 1953.
Tissues, All-purpose absorbent paper. International Cellucotton Products Company. 577,006, July 7; Serial No. 629,022, published Feb. 17, 1953.
Tissues, Cleansing, and toilet tissue. Sears, Roebuck and Co. 576,958, July 7; Serial No. 622,031, published Feb. 17, 1953.

CLASS 38

Greeting cards; Unfinished, printed, engraved, and lithographed, enclosure cards and printed invitations. Inter-Collegiate Press. 305,736, renewed Aug. 22, 1953. O. G. July 7.
Magazine. Union Special Machine Company. 304,292, June 27, 1933. Republished July 7.
Publications. Central United National Bank of Cleveland. 301,763, renewed Mar. 14, 1953. O. G. July 7.
Publications. Central United National Bank of Cleveland. 301,809, renewed Mar. 14, 1953. O. G. July 7.

CLASS 39

Apparel, Women's. Seamprufe Incorporated. 577,090, July 7; Serial No. 637,192, published Apr. 14, 1953.
Boots and shoes. International Shoe Company. 305,703, renewed Aug. 22, 1953. O. G. July 7.
Corsets, girdles, brassières, and combinations of brassières and girdles. Poirette Corsets, Inc. 577,085, July 7; Serial No. 636,999, published Apr. 14, 1953.
Dresses, blouses and outer shirts, Ladies' and misses'. Wolfson & Greenbaum, Inc. 577,053, July 7; Serial No. 635,012, published Apr. 14, 1953.
Dresses, coats, and suits. H. Altman & Co. 306,281, renewed Sept. 12, 1953. O. G. July 7.
Dresses, underwear, waists, etc. N. Fluegelman & Co., Inc. 305,540, renewed Aug. 22, 1953. O. G. July 7.
Dresses, Women's and misses'. Carol Crawford, Inc. 577,083, July 7; Serial No. 636,878, published Apr. 14, 1953.
Girdles. International Corset Company. 577,089, July 7; Serial No. 637,129, published Apr. 14, 1953.
Girdles and pantie girdles. A. Stein & Company. 577,078, July 7; Serial No. 636,615, published Apr. 14, 1953.
Gloves, Fabric. Wear-Right Gloves, Inc. 577,038, July 7; Serial No. 633,094, published Apr. 14, 1953.
Gloves, Steel reenforced, steel reenforced mittens, leather spring leggings, etc. Industrial Gloves Company. 576,935, July 7; Serial No. 618,088, published Apr. 14, 1953.
Hosiery. Howard Hosiery Mills, Inc. 576,908, July 7; Serial No. 602,402, published Apr. 7, 1953.
Hosiery. National Silk Hosiery Mills, Inc. 302,246, renewed Apr. 4, 1953. O. G. July 7.
Hosiery. Stephens & Stephens. 577,054, July 7; Serial No. 635,066, published Apr. 7, 1953.
Hosiery. The Textile Mills Corporation. 304,923, renewed July 25, 1953. O. G. July 7.
Hosiery and knitted and textile underwear. Vanity Fair Silk Mills. 305,802, renewed Aug. 22, 1953. O. G. July 7.
Hosiery, Ladies'. Plymouth Wholesale Dry Goods Corporation. 577,036, July 7; Serial No. 632,898, published Apr. 7, 1953.
Hosiery, Ladies' and men's. W. Felix. 576,931, July 7; Serial No. 617,023, published Apr. 14, 1953.
Hosiery, Ladies', knitted underwear, ladies' nylon or rayon slips, etc. H. Posner. 576,947, July 7; Serial No. 620,169, published Apr. 21, 1953.
Hosiery Women's. Burlington Mills Corporation. 576,974, July 7; Serial No. 624,222, published Apr. 7, 1953.
Hosiery, Women's. California Underwear Company, Inc. 576,992, July 7; Serial No. 626,852, published Apr. 14, 1953.
Hosiery, Women's. Gotham Hosiery Company, Inc. 577,028, July 7; Serial No. 632,298, published Apr. 7, 1953.
Hosiery, Women's. Penn-Carol Hosiery Mills, Inc. 576,993, July 7; Serial No. 626,905, published Apr. 7, 1953.
Hosiery, Women's and girls'. National Bellas Hess, Inc. 576,979, June 7; Serial No. 624,847, published Apr. 14, 1953.
Hosiery, Women's and misses'. Sears, Roebuck and Co. 576,892, July 7; Serial No. 574,057, published Apr. 14, 1953.
Hosiery, Women's full fashioned. Virginia Maid Hosiery Mills, Inc. 576,994, July 7; Serial No. 626,924, published Apr. 7, 1953.
Jackets and jeans, Western style. Blue Bell, Inc. 577,023, July 7; Serial No. 631,917, published Feb. 10, 1953.
Overall garment, Child's tailored. Lee-Wald Garment Company. 577,060, July 7; Serial No. 635,480, published Apr. 21, 1953.
Overalls, coats, trousers, etc., Men's, youths', and boys'. Phillips-Hendon Co. 92,258, re-renewed June 24, 1953. O. G. July 7.
Overcoats and topcoats. Society Brand Clothes, Inc. 576,944, July 7; Serial No. 619,481, published Feb. 24, 1953.
Panties. Miss Petite, Inc. 577,045, July 7; Serial No. 633,625, published Apr. 14, 1953.
Rainwear, Men's and boys'. Rettinger Raincoat Mfg. Co. 577,001, July 7; Serial No. 628,429, published Apr. 14, 1953.
Rompers, Children's. Harris-Lipsitz Co. 90,885, re-renewed Apr. 1, 1953. O. G. July 7.
Shirts, Men's and boys' dress, and men's and boys' pajamas. Levin & Harris Shirt Co. Inc. 306,703, renewed Sept. 26, 1953. O. G. July 7.
Shoes, Men's, women's and children's leather, fabric and rubber. Stine & Goldman. 305,803, renewed Aug. 22, 1953. O. G. July 7.
Shoes, Misses' and children's leather. Burrow, Jones & Dyer Shoe Co. 93,161, re-renewed Aug. 26, 1953. O. G. July 7.
Slips, petticoats, pajamas, etc., Women's, misses', and girls'. Miss Swank, Inc. 576,933, July 7; Serial No. 617,413, published Apr. 21, 1953.
Stormcoats, Children's. Pioneer Coat Manufacturing Company. 577,000, July 7; Serial No. 628,291, published Apr. 7, 1953.
Suits and overcoats, Men's and boys' outer. Aldens, Inc. 577,057, July 7; Serial No. 635,211, published Mar. 31, 1953.
Suits, overcoats, etc., Men's. Moe Levy & Son, Inc. 385,002, Feb. 11, 1941. Amended. O. G. July 7.
Sweaters, hose, mufflers, etc., Men and women's. Himalaya Knitwear Co., Inc. 576,922, July 7; Serial No. 610,969, published Apr. 14, 1953.
Tights, leotards, dance dresses, ballet skirts, etc., Ladies', misses' and children's. Anthony Costumes, Inc. 577,052, July 7; Serial No. 634,963, published Apr. 14, 1953.
Underwear and outerwear. F. R. Redman. 576,967, July 7; Serial No. 622,953, published Apr. 14, 1953.
Underwear and outerwear. F. R. Redman. 577,002, July 7; Serial No. 628,647, published Apr. 14, 1953.
Underwear, Knitted and textile, and hosiery. Vanity Fair Silk Mills. 305,748, renewed Aug. 22, 1953. O. G. July 7.
Underwear, Women's. Augusta Knitting Corporation. 577,082, July 7; Serial No. 636,762, published Apr. 14, 1953.
Wearing apparel Maternity. Stork-Hound, Inc. 577,062, July 7; Serial No. 635,557, published Apr. 14, 1953.

CLASS 40

Dresser sets. Sears, Roebuck and Co. 576,959, July 7; Serial No. 622,032, published Feb. 10, 1953.
Needles for hand sewing. Needle Industries Limited. 576,954, July 7; Serial No. 621,372, published Feb. 17, 1953.
Needles, Hand sewing. Etablissements Bohin Société Anonyme. 576,906, July 7; Serial No. 601,259, published Feb. 17, 1953.
Shoe laces. Cleveland Mills Co. 577,032, July 7; Serial No. 632,659, published Feb. 17, 1953.



CLASS 42

Curtains and draperies, Window. Heidenberg Lace Net Curtain Co. 577,106, July 7; Serial No. 638,580, published Apr. 21, 1953.
Fabrics, Cotton and rayon, and made-up fabrics. N. V. Textielfabriek "Holland." 576,965, July 7; Serial No. 622,637, published Apr. 21, 1953.
Fabrics, Rayon. Industrial Rayon Corporation. 303,715, renewed June 6, 1953. O. G. July 7.
Fabrics, Water-proofed. William L. Barrell Co. Inc. 305,210, renewed Aug. 8, 1953. O. G. July 7.
Fabrics, White duck, and white drill fabrics, etc. Opelika Manufacturing Corporation. 576,920, July 7; Serial No. 610,502, published Apr. 21, 1953.
Knitted, netted, and textile materials. J. P. Bemberg Aktiengesellschaft. 302,186, renewed Apr. 4, 1953. O. G. July 7.
Piece goods, Woolen. Miron Mills, Inc. 576,985, July 7; Serial No. 626,098, published Apr. 21, 1953.
Rugs, Woven. Chenille Rug Company. 577,109, July 7; Serial No. 638,693, published Apr. 21, 1953.
Towels, Bath, hand or guest towels, and wash cloths. Barth & Dreyfuss. 577,039, July 7; Serial No. 633,097, published Apr. 21, 1953.

CLASS 43

Continuous drawn strands and yarns. Libbey-Owens-Ford Glass Company. 577,110, July 7; Serial No. 639,060, published Apr. 21, 1953.
Yarn. Patons & Baldwins, Inc. 576,916, July 7; Serial No. 609,192, published Apr. 14, 1953.
Yarn, Crochet, knitting and weaving. Pyramid Mills Company. 576,982, July 7; Serial No. 624,970, published Apr. 14, 1953.
Yarns. United States Rubber Company. 577,095, July 7; Serial No. 637,509, published Apr. 21, 1953.
Yarns, All types of natural and synthetic. Tryon Processing Co. 577,055, July 7; Serial No. 635,155, published Apr. 14, 1953.

CLASS 44

Artificial teeth. Universal Dental Company. 303,682, renewed June 6, 1953. O. G. July 7.
Dental burs, Impression compounds, scaling instruments, etc. The Ransom & Randolph Company. 300,906, Feb. 14, 1933. Republished July 7.
Dental gold. J. F. Jelenko & Co., Inc. 302,696, renewed Apr. 25, 1953. O. G. July 7.
Pads used in the permanent waving of human hair. E. Frederics Inc. 303,441, renewed May 23, 1953. O. G. July 7.

CLASS 45

Beverages, Maltless, non-alcoholic. Dupont Pharmacy, Inc. 306,812, renewed Sept. 26, 1953. O. G. July 7.
Natural mineral and aerated drinking waters and ginger beer. Schweppes (Colonial & Foreign) Limited. 304,177, renewed June 27, 1953. O. G. July 7.

CLASS 46

Bakery goods. Helms Bakeries. 577,134, July 7; Serial No. 596,226.
Baking powder. Layton Pure Food Company. 300,736, renewed Feb. 7, 1953. O. G. July 7.
Baking-powder and baking-soda. Layton Pure Food Company. 90,352, re-renewed Feb. 18, 1953. O. G. July 7.
Biscuit. National Biscuit Company. 91,011, re-renewed Apr. 8, 1953. O. G. July 7.
Biscuit. National Biscuit Company. 91,113, re-renewed Apr. 15, 1953. O. G. July 7.
Biscuit. National Biscuit Company. 91,227, re-renewed Apr. 22, 1953. O. G. July 7.
Biscuit. National Biscuit Company. 92,447, re-renewed July 8, 1953. O. G. July 7.
Bread. Gnome Bakery, Inc. 302,299, renewed Apr. 11, 1953. O. G. July 7.
Candy. Paul F. Beich Company. 305,991, renewed Aug. 29, 1953. O. G. July 7.
Candy. C. A. Crane. 93,080, re-renewed Aug. 19, 1953. O. G. July 7.
Candy. The Great Atlantic and Pacific Tea Company. 577,072, July 7; Serial No. 636,356, published Apr. 7, 1953.
Candy, Horehound-flavored stick. Fenn Bros., Inc. 577,155, July 7; Serial No. 640,154.
Canned dog food. Doyle Packing Company. 577,149, July 7; Serial No. 627,563.
Canned evaporated milk. The Page Milk Company. 577,048, July 7; Serial No. 634,543, published Apr. 21, 1953.
Canned fruits. Fruitland Canning Association, Inc. 577,148, July 7; Serial No. 622,588.
Canned fruits and vegetables. Macon Grocery Company. 576,980, July 7; Serial No. 624,800, published Apr. 21, 1953.
Canned peas. Bozeman Canning Company, Inc. 577,030 July 7; Serial No. 632,596, published Apr. 14, 1953.
Canned tomato paste. La Industrial de Ensenada, S. de R. L. 577,118, July 7; Serial No. 640,942, published Apr. 21, 1953.
Canned vegetables. F. Herfort. 92,795, re-renewed July 29, 1953. O. G. July 7.
Canned vegetables and fruits. S. J. Seneca. 50,291, Mar. 6, 1906. New certificate. O. G. July 7.
Celery, Fresh. Zuckerman Mandeville Inc. 576,962, July 7; Serial No. 622,288, published Apr. 21, 1953.
Cereal products. W. A. Davis Milling Company. 577,107–8, July 7; Serial Nos. 638,637–8, published Apr. 21, 1953.
Chemical composition for use in curing meats, etc. Meat Industry Suppliers, Inc. 523,644, Apr. 4, 1950. Canceled June 5, 1953. O. G. July 7.
Chewing gum, Ammoniated. M. Englestad. 576,914, July 7; Serial No. 606,283, published Mar. 10, 1953.
Chocolate bars. Aktiengesellschaft Chocolat Tobler. 576,930, July 7; Serial No. 616,219, published Apr. 21, 1953.
Cocoa, cocoabutter, cocoa powder, etc. Ringers' Cacao- en Chocoladefabrieken, N. V. 576,939, July 7; Serial No. 618,404, published Apr. 21, 1953.
Coffee. M. Siegel. 576,948, July 7; Serial No. 620,172, published Mar. 31, 1953.
Cookies and cakes. Zion Industries, Inc. 577,118, July 7; Serial No. 639,974, published Apr. 14, 1953.
Cookies and crackers. United Biscuit Company of America. 576,960, July 7; Serial No. 622,045, published Apr. 21, 1953.
Cream containing vanilla, sugar, and stabilizer. Reddi-Wip, Inc. 577,074–5, July 7; Serial No. 636,495–6, published Apr. 21, 1953.
Dates, Fresh. California Date Growers Association. 577,139, July 7; Serial No. 617,106.
Dinners, Prepared. J. J. Janda. 576,996, July 7; Serial No. 627,510, published Apr. 21, 1953.
Dog food. R. F. Hunsicker. 577,153, July 7; Serial No. 632,528.
Feeds, Prepared. Stoddard Associated Milling Company. 576,976, July 7; Serial No. 624,428, published Apr. 14, 1953.
Fish, Prepared. Davis Bros. Fisheries Co., Inc. 577,132, July 7; Serial No. 588,165.
Fish products, Frozen. New England Fish Company. 576,910, July 7; Serial No. 603,411, published Apr. 14, 1953.
Flour, Wheat. Distributors Trucking Corporation. 576,901, July 7; Serial No. 595,124, published Apr. 21, 1953.
Flour, Wheat. Flour Mills of America, Inc. 577,004, July 7; Serial No. 629,010, published Apr. 14, 1953.
Flour, Wheat, and self-rising wheat flour. The Whitewater Flour Mills Company. 576,978, July 7; Serial No. 624,578, published Apr. 21, 1953.
Flours, Cereal, pancake flour, cake flour, etc. The Crete Mills. 576,921, July 7; Serial No. 610,544, published Apr. 14, 1953.
Food, Dog and cat, poultry and stock feed. Waynesburg Milling Company. 576,942, July 7; Serial No. 618,788, published Apr. 14, 1953.
Food products. J. M. Corbett. 538,382, Feb. 20, 1951. Canceled May 22, 1953. O. G. July 7.
Food products. Sun-Pacific Inc. 577,101, July 7; Serial No. 638,222, published Apr. 21, 1953.
Foodstuff, Liquid. Rich Products Corp. 577,130, July 7; Serial No. 584,155.
Fruit juice, Bottled natural. H. C. Van Valkenburgh. 576,885, July 7; Serial No. 547,426, published Apr. 14, 1953.
Fruits, Assorted dried. Day & Young. 577,154, July 7; Serial No. 633,717.
Fruits, Deciduous. Thun Investment Company. 576,890, July 7; Serial No. 568,879, published Mar. 31, 1953.
Fruits, Fresh citrus. Valencia Heights Orchards, Inc. 362,306, renewed Apr. 11, 1953. O. G. July 7.
Fruits, Fresh citrus, orange marmalade, and fruit preserves. Tempeco Groves. 577,144, July 7; Serial No. 625,440.
Gelatin dessert preparation. Avoset Company. 576,970, July 7; Serial No. 624,010, published Apr. 21, 1953.
Gift packages containing fresh deciduous fruits, canned fruits, etc. Harry and David. 576,896, July 7; Serial No. 586,035, published Apr. 21, 1953.
Grey shorts, wheat mixed feed and bran, and poultry feeds. Shellabarger Mill & Elevator Company. 304,268, renewed June 27, 1953. O. G. July 7.
Meal, Processed. Dirigo Sales Corporation. 576,998, July 7; Serial No. 627,870, published Apr. 21, 1953.
Meat sauce. A. S. Tomlin. 577,019, July 7; Serial No. 631,183, published Mar. 31, 1953.
Milk. S. M. A. Corporation. 303,476, renewed May 23, 1953. O. G. July 7.
Milk, Fluid, buttermilk, ice cream, etc. P. Eisenberg. 576,919, July 7; Serial No. 610,315, published Apr. 21, 1953.
Mixture of egg material and other substances suitable for use as an ingredient in making cakes and other food products. Standard Brands Incorporated. 306,750, renewed Sept. 26, 1953. O. G. July 7.
Oleomargarine. E. F. Drew & Co., Inc. 577,066, July 7; Serial No. 635,691, published Mar. 31, 1953.
Oleomargarine. Lever Brothers Company. 576,917, July 7; Serial No. 609,732, published Apr. 21, 1953.
Olive oil. Societe Anonyme des Nouveaux Etablissements Adolphe Puget. 576,941, July 7; Serial No. 618,659, published Apr. 14, 1953.
Oranges, lemons, grape-fruit, etc. Citra Packing Company, Incorporated. 300,403, renewed Jan. 17, 1953. O. G. July 7.

Oranges, lemons, grape-fruit, etc. Citra Packing Company, Incorporated. 300,489, renewed Jan. 24, 1953. O. G. July 7.

Pancake batter, Ready to use. H. L. Soffer. 577,114, July 7; Serial No. 640,171, published Apr. 21, 1953.

Pickles, Fancy sweet mixed, sweet dill strips, sweet pickle chips, etc. Whiteman Food Products Company. 577,092, July 7; Serial No. 637,413, published Apr. 7, 1953.

Potato chips, cheese-flavored chips and food chips. C. Lanning. 576,898, July 7; Serial No. 588,177, published Apr. 14, 1953.

Seafood products, Frozen. S. A. Key. 576,981, July 7; Serial No. 624,954, published Apr. 21, 1953.

Syrup, Table. W. F. Straub & Company. 576,951, July 7; Serial No. 620,752, published Apr. 21, 1953.

Syrups, Table. Robinson Syrup Company, Inc. 577,151, July 7; Serial No. 629,389.

Tea. Standard Brands Incorporated. 576,995, July 7; Serial No. 627,360, published Apr. 21, 1953.

Tea. The Woolson Spice Company. 93,576, re-renewed Sept. 23, 1953. O. G. July 7.

Tea and instant cocoa. Standard Brands Incorporated. 577,056, July 7; Serial No. 635,156, published Mar. 24, 1953.

Teas. C. & J. Lenson, Corp. 577,011, July 7; Serial No. 629,948, published Apr. 14, 1953.

Turkeys, Frozen. Gorgeous George. 576,997, July 7; Serial No. 627,742, published Mar. 31, 1953.

Vegetables, Fresh. F. V. Birbeck Co. 577,097, July 7; Serial No. 637,566, published Apr. 7, 1953.

Vegetables, Packaged fresh. T. Molle. 576,952, July 7; Serial No. 621,079, published Apr. 21, 1953.

CLASS 47

Champagne and wines. Vve. George Goulet & Cie. 304,706, renewed July 18, 1953. O. G. July 7.

Wines. Virginia Dare Extract Company, Inc. 305,648, renewed Aug. 22, 1953. O. G. July 7.

CLASS 48

Beer. Miller High Life Company. 305,870, renewed Aug. 29, 1953. O. G. July 7.

Malt beverage. Independent Milwaukee Brewery. 300,866, renewed Feb. 14, 1953. O. G. July 7.

CLASS 49

Whiskey. Jos. S. Finch & Company. 303,162, renewed May 16, 1953. O. G. July 7.

Whiskey and potable spirits. Joseph E. Seagram & Sons Limited. 300,769, renewed Feb. 7, 1953. O. G. July 7.

Whiskey and potable spirits. Joseph E. Seagram & Sons Limited. 301,726, renewed Mar. 14, 1953. O. G. July 7.

Whisky. Joseph E. Seagram & Sons Limited. 302,182, renewed Apr. 4, 1953. O. G. July 7.

Whisky and other potable distilled liquors. Consolidated Distilleries, Limited. 305,882, renewed Aug. 29, 1953. O. G. July 7.

CLASS 50

Molded bottle and jar closures or caps. Armstrong Cork Company. 577,081, July 7; Serial No. 636,675, published Apr. 14, 1953.

Paper-makers' jackets, woolen cloths for mechanical purposes, and color-cloths for carrying the color on wall-paper. F. C. Huyck and Sons. 90,892, re-renewed Apr. 1, 1953. O. G. July 7.

Picnic carrying containers. Aladdin Industries, Incorporated. 576,938, July 7; Serial No. 618,314, published Apr. 14, 1953.

Printing plates. F. A. Ringler Company. 576,888, July 7; Serial No. 564,741, published Mar. 10, 1953.

Rubber household wares. Essex Rubber Company. 577,007, July 7; Serial No. 629,095; published Mar. 10, 1953.

Wall covering. Hood Rubber Company, Inc. 303,356, renewed May 23, 1953. O. G. July 7.

CLASS 51

Astringent. F. N. Lewis. 205,537, Nov. 10, 1925. Republished July 7.

Cologne. Lucien Lelong, Inc. 577,145, July 7; Serial No. 625,478.

Cosmetic creams, lotions, sunburn ointment, etc. Elizabeth Arden, Inc. 279,900, Feb. 10, 1931. Republished July 7.

Cosmetics. F. N. Lewis. 211,192, Apr. 6, 1926. Republished July 7.

Dental cream. Colgate-Palmolive-Peet Company. 302,851, renewed May 2, 1953. O. G. July 7.

Dental cream. Colgate-Palmolive-Peet Company. 305,874, renewed Aug. 29, 1953. O. G. July 7.

Deodorant stick. Elizabeth Arden Sales Corporation. 390,188, Sept. 9, 1941. Republished July 7.

Deodorants. F. N. Lewis. 210,274, Mar. 9, 1926. Republished July 7.

Depilatory. F. N. Lewis. 123,441, Nov. 12, 1918. Republished July 7.

Eau de cologne. Ferd Mülhens, Inc. 300,579, Jan. 24, 1933. Republished July 7.

Face and body creams. Elizabeth Arden Sales Corporation. 419,175, Feb. 5, 1946. Republished July 7.

Face cream. Elizabeth Arden Sales Corporation. 399,170, Dec. 22, 1942. Republished July 7.

Hair cream. H. Roberts. 577,152, July 7; Serial No. 630,794.

Lipstick, foundation cream, foundation lotion, etc. Elizabeth Arden Sales Corporation. 398,775, Nov. 24, 1942. Republished July 7.

Lipstick, rouge, and nail polish. Elizabeth Arden, Inc. 382,899, Nov. 12, 1940. Republished July 7.

Lipsticks. Elizabeth Arden, Inc. 292,825, Mar. 29, 1932. Republished July 7.

Lipsticks. J. L. Younghusband. 306,254, renewed Sept. 12, 1953. O. G. July 7.

Lipsticks, lip pencils, rouge, etc. Elizabeth Arden Sales Corporation. 419,213, Feb. 5, 1946. Republished July 7.

Lipsticks, lip pencils, rouge, etc. Elizabeth Arden Sales Corporation. 437,528, Mar. 30, 1948. Republished July 7.

Lipsticks, rouge, eye shadow, etc. Elizabeth Arden, Inc. 412,620, Mar. 20, 1945. Republished July 7.

Lipsticks, rouge, nail polish, etc. Elizabeth Arden, Inc. 381,966, Oct. 15, 1940. Republished July 7.

Lipsticks, rouges, and nail polishes, etc. Elizabeth Arden, Inc. 377,352, May 7, 1940. Republished July 7.

Lotion. Elizabeth Arden, Inc. 308,049, Nov. 21, 1933. Republished July 7.

Lotion, Eye. F. N. Lewis. 205,859, Nov. 17, 1925. Republished July 7.

Lotion, Eyelash. F. N. Lewis. 200,848, July 14, 1925. Republished July 7.

Lotion for the legs. Elizabeth Arden Sales Corporation. 419,174, Feb. 5, 1946. Republished July 7.

Lotion, Skin. F. N. Lewis. 205,860, Nov. 17, 1925. Republished July 7.

Lotions, Skin. Elizabeth Arden Sales Corporation. 388,616, July 1, 1941. Republished July 7.

Manicure preparations. Mountain Varnish & Color Works, Inc. 306,610, renewed Sept. 26, 1953. O. G. July 7.

Nail polish. Elizabeth Arden Sales Corporation. 439,038, June 1, 1948. Republished July 7.

Nail polish, cream and compact rouges, and lipstick. Elizabeth Arden Sales Corporation. 398,415, Oct. 27, 1942. Republished July 7.

Nail polish, lipsticks, and rouges. Elizabeth Arden Sales Corporation. 406,968, May 9, 1944. Republished July 7.

Ointment and whitening cream. E. T. Browne Drug Company Inc. 305,601, renewed Aug. 22, 1953. O. G. July 7.

Perfumed powder. Elizabeth Arden Sales Corporation. 419,768, Mar. 5, 1946. Republished July 7.

Perfumes and toilet waters. Elizabeth Arden Sales Corporation. 391,307, Oct. 28, 1941. Republished July 7.

Perfumes and toilet waters. F. N. Lewis. 244,645, July 24, 1928. Republished July 7.

Perfumes, eau de cologne, toilet water, etc. Elizabeth Arden Sales Corporation. 414,745, June 26, 1945. Republished July 7.

Pharmaceutical preparations. Borun Bros. 302,428, renewed Apr. 18, 1953. O. G. July 7.

Rouge, lipstick, and nail polish. Elizabeth Arden Sales Corporation. 420,020, Mar. 19, 1946. Republished July 7.

Rouges, Cream and compact, lipstick, face and dusting powders, etc. Elizabeth Arden Sales Corporation. 414,151, May 29, 1945. Republished July 7.

Sachet powders. Elizabeth Arden Sales Corporation. 426,913, Jan. 21, 1947. Republished July 7.

Shaving cream. Colgate-Palmolive-Peet Company. 306,594, renewed Sept. 26, 1953. O. G. July 7.

Skin-cleansing cream. F. N. Lewis. 205,788, Nov. 17, 1925. Republished July 7.

Toilet preparations. Set of. Elizabeth Arden, Inc. 373,058, Nov. 21, 1939. Republished July 7.

CLASS 52

Chemical compounds for cleaning and preserving fuel systems, etc. R. M. Hollingshead Corporation. 576,977, July 7; Serial No. 624,542, published Apr. 21, 1953.

Cleaner, Liquid automobile. Freeman & Freeman, Inc. 577,043, July 7; Serial No. 633,260, published Apr. 21, 1953.

Cleaning compound, Ammonia. The John Puhl Products Company. 577,010, July 7; Serial No. 630,681, published Apr. 21, 1953.

Cleansers, Aluminum. P. J. Brady. 93,517, re-renewed Sept. 23, 1953. O. G. July 7.

Soap. Colgate-Palmolive-Peet Company. 306,690, renewed Sept. 26, 1953. O. G. July 7.

Soap, M. N. Pergament. 577,131, July 7; Serial No. 586,061.

Soap, White laundry. W. G. Crane. 40,024, re-renewed Mar. 31, 1953. O. G. July 7.

Soaps. Elizabeth Arden Sales Corporation. 393,688, Feb. 24, 1942. Republished July 7, 1953.



CLASS 100

Renting of sewing machines to the public and for engineering and consulting services, etc. The Singer Manufacturing Company. 577,125, July 7; Serial No. 629,694, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

Renting of sewing machines to the public, and for engineering and consulting services, etc. The Singer Manufacturing Company. 577,126, July 7; Serial No. 629,699, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

CLASS 101

Management engineering. The Singer Manufacturing Company. 577,125, July 7; Serial No. 629,693, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

Management engineering. The Singer Manufacturing Company. 577,126, July 7; Serial No. 629,698, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

CLASS 103

Repairing, servicing, and maintaining of exhaust and blower systems. Brooklyn Blower & Pipe Co. 577,156, July 7; Serial No. 600,876.

Service, maintenance, and repair of home appliances. The Singer Manufacturing Company. 577,125, July 7; Serial No. 629,695, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

Service, maintenance, and repair of home appliances. The Singer Manufacturing Company. 577,126, July 7; Serial No. 629,700, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

CLASS 105

Air transportation, and for arranging all-expense vacation tours. Eastern Air Lines, Inc. 577,127, July 7; Serial No. 633,043, published Apr. 21, 1953.

CLASS 106

Fashion services. The Singer Manufacturing Company. 577,125, July 7; Serial No. 638,164, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

Fashion services. The Singer Manufacturing Company. 577,126, July 7; Serial No. 637,957, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

CLASS 107

Teaching of hand and machine sewing. The Singer Manufacturing Company. 577,125, July 7; Serial No. 629,696, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

Teaching of hand and machine sewing. The Singer Manufacturing Company. 577,126, July 7; Serial No. 629,701, published Mar. 31, 1953. (Consolidated Certificate, Classes 100, 101, 103, 106, and 107.)

# LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Charbonneau, Allan P., and E. W. Seeger, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electric tubular heater terminal seal. Re. 23,679, July 7.

Clayton, Benjamin, Pasadena, Calif., assignor, by mesne assignments, to B. Clayton, doing business as Refining, Unincorporated. Purification of glyceride oils. Re. 23,680, July 7.

Cornish, Harold E., Banktown, New South Wales, Australia. Folding baby carriage. Re. 23,681, July 7.

Cutler-Hammer, Inc., assignee: *See*—
Charbonneau, Allan P., and Seeger.

Merit Engineering, Inc., assignee: *See*—
Stevenson, Robert.

Refining, Unincorporated, assignee: *See*—
Clayton, Benjamin.

Seeger, Edwin W.: *See*—
Charbonneau, Allan P., and Seeger.

Segre, Mario, Quito, Ecuador, assignor to W. A. Sheaffer Pen Company, Fort Madison, Wis. Fountain pen. Re. 23,683, July 7.

Sheaffer, W. A., Pen Company, assignee: *See*—
Segre, Mario.

Stevenson, Robert, East Greenwich, R. I., assignor to Merit Engineering, Inc. Unloading valve. Re. 23,682, July 7.

# LIST OF DESIGN PATENTEES

Amana Refrigeration, Inc., assignee: *See*—
Budlong, Robert D.

Amwell Full Fashioned Hosiery Company, Inc., assignee: *See*—
Rickert, Melvin A.

Art Metal Company, The, assignee: *See*—
Glatthar, George E., and Matteson.

Autograf Brush & Plastics Co., Incorporated, assignee: *See*—
Mayer, Joseph W.

Baird Machine Company, The, assignee: *See*—
Lewis, Arthur J.

Baroumes, Nina, Juneau, Alaska. Shoe. 169,956, July 7.

Bausch & Lomb Optical Company, assignee: *See*—
Stegeman, Raymond F. E.

Berke Brothers Distilleries Inc., assignee: *See*—
Berkowitz, Hyman C.

Berkowitz, Hyman C., Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass. Decanter. 169,957, July 7.

Blunt, Royden A., Baltimore, Md. Milk bottle. 169,958, July 7.

Blunt, Royden A., Baltimore, Md. Milk bottle. 169,959, July 7.

Bo-Low Lamp Corp., assignee: *See*—
Goldman, Robert, and Nemzer.

Borg-Warner Corporation, assignee: *See*—
Kennedy, George P.

Brill, Harold A., Elkins Park, and M. S. Slotsky, assignors to Brill-Sloane Company, Philadelphia, Pa. Wall fixture for deodorizing lamps. 169,960, July 7.

Brill-Sloane Company, assignee: *See*—
Brill, Harold A., and Slotsky.

Budlong, Robert D., Skokie, Ill., assignor to Amana Refrigeration, Inc., Amana, Iowa. Control panel for freezers, refrigerators, and the like. 169,961, July 7.

Burnelli, Vincent J., Great Neck, N. Y. Airplane. 169,962, July 7.

Caldwell, Louis P., and P. C. Wohlt, Independence, Mo. Tray for typists' accessories. 169,963, July 7.

Cantor, Martin E., Bangor, Maine. Sport shirt. 169,964, July 7.

Cassell, Charles R., Oklahoma City, Okla. Lamp. 169,965, July 7.

Columbia Pictures Corporation, assignee: *See*—
Geisel, Theodor S.

Continental Can Company, Inc., assignee: *See*—
Freeman, Ernest W.

Del Mas, Christy M., assignor to Grace-Mas Enterprises, Inc., New York, N. Y. Canister. 169,966, July 7.

Development Research, Inc., assignee: *See*—
Soffer, Jack W., and Hunt.

Edlund, Walter W., Burlington, Vt. Can opener or the like. 169,967, July 7.

Feldman, Samuel, New York, N. Y. Cap. 169,968, July 7.

Franklin, Benjamin L., Tucson, Ariz. Sewing cabinet. 169,969, July 7.

Freeman, Ernest W., Belleville, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Powder dispensing can. 169,970, July 7.

Geisel, Theodor S., La Jolla, Calif., assignor to Columbia Pictures Corporation, New York, N. Y. Hat. 169,971, July 7.

Glatthar, George E., University Heights, and A. W. Matteson, Lakewood, assignors to The Art Metal Company, Cleveland, Ohio. Lighting fixture. 169,972, July 7.

Goins, Walter D., Sr., Birmingham, Ala. Combined desk and counter. 169,973, July 7.

Goldman, Robert, and R. R. Nemzer, South Hempstead, assignors to Bo-Low Lamp Corp., Brooklyn, N. Y. Music box nursery lamp. 169,974, July 7.

Goldman, Robert, and R. R. Nemzer, South Hempstead, assignors to Bo-Low Lamp Corp., Brooklyn, N. Y. Music box nursery lamp. 169,975, July 7.

Grace-Mas Enterprises, Inc., assignee: *See*—
Del Mas, Christy M.

Hettrick Manufacturing Company, The, assignee: *See*—
Smith, William I.

Hunt, George S.: *See*—
Soffer, Jack W., and Hunt.

Hutchison, Milburn R., La Jolla, Calif. Hobbyhorse. 169,976, July 7.

Jonesi, Lawrence, Chicago, Ill. Drawing board. 169,977, July 7.

Kennedy, George P., Conklin, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Combination freezer and refrigerator. 169,978, July 7.

Kesler, Herman, Jenkintown, Pa. Game board or similar article. 169,979, July 7.

Knapp, Mary C., Bradenton, Fla. Crayon sharpener. 169,980, July 7.

Lambert, Reuben B., New Haven, Conn. Flashlight casing. 169,981, July 7.

Lewis, Arthur J., assignor to The Baird Machine Company, Stratford, Conn. Tractor. 169,982, July 7.

Matteson, Arthur W.: *See*—
Glatthar, George E., and Matteson.

Mayer, Joseph W., Troy, N. Y., assignor to Autograf Brush & Plastics Co., Incorporated. Child's scrub brush. 169,983, July 7.

Miller, Kenneth K., assignor to Miller Protecto Producta Company, Kalamazoo, Mich. Spray-type dispenser for liquids. 169,984, July 7.

Miller Protector Products Company, assignee: *See*—
Miller, Kenneth K.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Reinecke, Jean O.

Musacchia, John B., Brooklyn, N. Y., and R. Nicyper, Bergenfield, N. J. Combined lamp and container or the like. 169,985, July 7.

Nemzer, Roy R.: *See*—
Goldman, Robert, and Nemzer.

Nicyper, Raymond: *See*—
Musacchia, John B., and Nicyper.

Orloff, Jack, New York, N. Y. Blouse. 169,986, July 7.

Orloff, Jack, New York, N. Y. Blouse. 169,987, July 7.

Orloff, Jack, New York, N. Y. Blouse. 169,988, July 7.

Plax Corporation, assignee: *See*—
Vuillemenot, Robert P., and St. Clair.

Reinecke, Jean O., Chicago, Ill., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Tape dispenser. 169,989, July 7.

Rickert, Melvin A., assignor to Amwell Full Fashioned Hosiery Company, Inc., Lambertville, N. J. Lady's stocking. 169,990, July 7.

Sager, Solomon M., Fort Wayne, Ind. Hat and coat hanger. 169,991, July 7.

St. Clair, Melvin E.: *See*—
Vuillemenot, Robert P., and St. Clair.

Schimmel, Madalyn M., Los Angeles, Calif. Shaped textile fabric. 169,992, July 7.

Slotsky, Morris S.: *See*—
Brill, Harold A., and Slotsky.

Smith, William I., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Awning. 169,993, July 7.

Soffer, Jack W., St. Louis, Mo., and G. S. Hunt, Pacific Palisades, Calif., assignors to Development Research, Inc., St. Louis, Mo. Closure cap for steel cans or similar articles. 169,994, July 7.

Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Front for spectacle frames. 169,995, July 7

Vuillemenot, Robert P., River Edge, N. J., and M. E. St. Clair, Hartford, assignors to Plax Corporation, West Hartford, Conn. Dropper for the ears, eyes, nose or the like. 169,996, July 7.

Witmer, Florence C., New York, N. Y. Brooch or similar article. 169,997, July 7.

Witt, Harry, New Rochelle, N. Y. Bed lamp. 169,998, July 7.

Wohlt, Philipp C.: *See*—
Caldwell, Louis P., and Wohlt.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 7TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A and K Safety Carton Cutter, Inc., assignee: *See*—
Anderson, Alfred H.

Abraham, David, Waltham, assignor to Hampden Brass and Aluminum Company, Springfield, Mass. Tiltable band saw machine. 2,644,491, July 7.

Abrahamsen, Donald, Harrington Park, N. J. Automatic screw machinery. 2,644,349, July 7.

Adams, Rhoda, assignee: *See*
Rockwell, Chauncey L.

Advance Pattern Co., Inc., assignee: *See*
Luisada, August G.

Aerojet-General Corporation, assignee: *See*
Coxe, Winthrop K., and Merhoth.

Agar, George W. A., Wellington, New Zealand. Method of and apparatus for the manufacture of roofing tiles and the like. 2,644,217, July 7.

Airheart Products, Inc., assignee: *See*
Cagle, Toby T.

Aktiebolaget Pharmacia, assignee: *See*
Grönwall, Anders J. T., and Ingelman.

Aladdin Industries, Incorporated, assignee: *See*
Bramming, Carl.

Albrecht, Harold W.: *See*—
Sutherland, Edwin M., and Albrecht.

Aleshin, William N., South Windsor, Conn. Fixed resilient clip to hold articles. 2,644,216, July 7.

Alexanderson, Ernst F. W., Schenectady, N. Y., and R. W. Kuenning, Berkeley, Calif., assignors to General Electric Company. Stabilizer for alternating current power transmission systems. 2,644,898, July 7.

Alexanderson, Ernst F. W., and S. P. Nixdorff, Schenectady, N. Y., assignors to General Electric Company. Electronic motor and commutating means therefor. 2,644,016, July 7.

Allegro, Giuseppe, Genoa, Italy. Welded ship construction. 2,644,418, July 7.

Allen, Edwin L., Cleveland Heights, assignor, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Control mechanism for door latches. 2,644,712, July 7.

Allen, Gene, assignee: *See*—
Oberholtz, Lester E., and Allen.

Allen, Rufus V., Chino, Calif. Fishing device. 2,644,263, July 7.

Allied Chemical & Dye Corporation, assignee: *See*—
Kise, Pearl A.

Allison, Lenora H., assignee: *See*—
Loccy, Harry A.

All-Steel Equipment Inc., assignee: *See*—
Saaf, Fritz A.

Altman, Peter, Detroit, and L. D. Bakke, Plymouth, assignors to Continental Motors Corporation, Detroit, Mich. Pot type engine oil heater. 2,644,544, July 7.

Aluminum Company of America, assignee: *See*—
McLaughlin, Joseph E.

Ambrosi, Louis F., Richmond Hill, N. Y. Leader drain trap. 2,644,585, July 7.

American Cyanamid Company, assignee: *See*—
Brendel, Armin G.
Cresswell, Arthur.
Harned, Ben K., and Cunningham.
Stirn, Frank E., and Taylor.
Weidenheimer, Joseph F., and Ritter.

American Hardware Corporation, The, assignee: *See*—
McConnell, Frank J.

American Locomotive Company, assignee: *See*—
Anderson, Karl V.
Berlyn, Martin J.
Kopp, Sigmund.
Ward, Edgar A.

American Steel Foundries, assignee: *See*—
Geddert, William J.

American Viscose Corporation, assignee: *See*—
Bauer, Ernest K.

Anderberg, Axel W., Los Angeles, Calif. Spring sash balance. 2,644,193, July 7.

Anderson, Alfred H., assignor to A and K Safety Carton Cutter, Inc., Los Angeles, Calif. Carton cutter having a retractable guard. 2,644,230, July 7.

Anderson, Karl V., Schenectady, assignor to American Locomotive Company, New York, N. Y. Combustion chamber for internal-combustion engines. 2,644,433, July 7.

Andrew, Robert L., Elmira, N. Y. Auxiliary roller for lawn mowers. 2,644,290, July 7.

Apel, George E.: *See*—
Collins, Don F., Apel, and Fuller.

Arceo, Louis, New York, N. Y. Music-box cabinet. 2,644,421, July 7.

Arkelyan, Adele M.: *See*—
Eskin, Samuel G., and Arkelyan.

Armitage, Joseph B., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Pattern controlled milling machine. 2,644,370, July 7.

Armour and Company, assignee: *See*—
Kennedy, Eugene P., and Grossnickle.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Nass, Walter R.
Rahinow, Jacob.

Arrow-Hart & Hegeman Electric Co., The, assignee: *See*—
Bentley, Robert H.

Arvilla, Joseph, Charlevoix, Mich. Child's swinging bed or pen. 2,644,172, July 7.

Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,644,412, July 7.

Aston, Georgianna G., assignee: *See*—
Rockwell, Chauncey L.

Atchison, Leonard W., Erie, Pa., assignor to General Electric Company. Heat reflecting hood. 2,644,738, July 7.

Ateliers de Constructions Electriques de Charlerol, assignee: *See*—
Hoyaux, Max.

Atwood, John B., Riverhead, N. Y., assignor to Radio Corporation of America. Diversity gating system. 2,644,885, July 7.

Auphan, Michel, Paris, France, assignor to Societe Generale d'Electronique, Monaco (Principality of Monaco). Manufacture of a screen for a television apparatus or the like. 2,644,208, July 7.

Averill, Harold P., Aberdeen, Md., and R. Pfanstiel, Cleveland Heights, Ohio, assignors to the United States of America as represented by the Secretary of War. Composition of matter. 2,644,796, July 7.

Avil, Frank S., Avondale Estates, Ga. Machine for weighing and packaging potato chips or the like. 2,644,661, July 7.

Ayres, Waldemar A., Kew Gardens Hills, N. Y. Apparatus for producing stereoscopic pictures. 2,644,382, July 7.

Bachle, Carl F., assignor to Continental Motors Corporation, Detroit, Mich. Pressurized chamber for air-cooled engines. 2,644,541, July 7.

Bailey, Malcolm, Sr., assignor of one-half to V. G. Stead, Tampa, Fla. Cleaning attachment for internal-combustion engines. 2,644,440, July 7.

Bailey, Robert A., Sarona, Wis. Dust seal. 2,644,729, July 7.

Bailey, Thomas W., Hammondsport, assignor to Corning Glass Works, Corning, N. Y. Burn-off machine. 2,644,274, July 7.

Baker, Allister L., Denville, assignor to Keuffel & Esser Company, Hoboken, N. J. Drafting machine. 2,644,238, July 7.

Baker, Benjamin P., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-speed compressed-air circuit breaker. 2,644,876, July 7.

Baker, Craig C., Los Angeles, Calif. Router with adjustably mounted drill for stereotype plates. 2,644,371, July 7.

Baker, John R., Pasadena, and E. H. Clark, Jr., Huntington Park, assignors to Baker Oil Tools, Inc., Vernon, Calif. Expansible drill bit and cutter blade. 2,644,670, July 7.

Baker, John R., Pasadena, assignor to Baker Oil Tools, Inc., Vernon, Calif. Expansible rotary drill bit and cutter. 2,644,673, July 7.

Baker Oil Tools, Inc., assignee: *See*—
Baker, John R.
Baker, John R., and Clark.
Baker, Reuben C.
Lee, Francis H.
Mater, Bernardus E.
Ragan, Thomas M.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Tubing and well tool coupling. 2,644,524, July 7.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Device for controlling well flow. 2,644,527, July 7.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Cushioned gas-operated well apparatus. 2,644,529, July 7.

Baker, Reuben C., Coalinga, assignor to Baker Oil Tools, Inc., Vernon, Calif. Gas-operated well apparatus with expansion-retarding device. 2,644,530, July 7.

Bakke, Laurence D.: *See*—
Altman, Peter, and Bakke.

Balzer, Abram P., Mountain Lake, Minn. Drive transmission for steerable tractor wheels. 2,644,540, July 7.

Barnsteiner, Alfons, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Oven liner. 2,644,443, July 7.

Barrie, Arthur J.: *See*—
Miller, John W., and Barrie.

Barry, Joseph F., Summit, and D. M. Ruggles, Mount Tabor, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crystal unit. 2,644,904, July 7.

Barton, Loy E., Princeton, N. J., assignor to Radio Corporation of America. Stabilized semiconductor amplifier circuits. 2,644,859, July 7.

Bassuff, Arthur, assignor to National Broach & Machine Company, Detroit, Mich. Feed chute. 2,644,564, July 7.

Bauer, Ernest K., Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Marking device for strand material. 2,644,423, July 7.

Baxter, John E., Maywood, Calif., assignor to Parker Rust Proof Company, Detroit, Mich. Sulfide coating. 2,644,774, July 7.

Baxter, William C., assignor to Trimble, Inc., Rochester, N. Y. Folding stand and tray. 2,644,590, July 7.

Bayerische Motoren Werke AG., assignee: *See*—
Behringer, Hermann.

Beacham, Robert C., Richmond, Calif., assignor to Cutter Laboratories, Inc. Bottle stopper. 2,644,453, July 7.

Beadle, Eugene E., Waterbury, Conn. Box for phamaceutical preparations. 2,644,259, July 7.

Beaunit Mills, Inc., assignee: *See*—
Eycleshimer, Ralph W.

Becker, John E., Darlington Township, Durham County, Ontario, Canada. Fluid circulation control for fluid couplings. 2,644,304, July 7.

Beckman, Gustaf S., Cranston, R. I. Silk reeling machine. 2,644,200, July 7.

Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Television carrier control system. 2,644,942, July 7.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Locking stud type molding fastener. 2,644,213, July 7.

Beecher, Blanche C., executrix: *See*—
Beecher, Henry W.

Beecher, Henry W., deceased, Seattle, Wash.; B. C. and H. W. Beecher, Jr., executors of said H. W. Beecher. Hearth type furnace. 2,644,431, July 7.

Beecher, Henry W., Jr., executor: *See*—
Beecher, Henry W.

Behr, Henry, assignee: *See*—
Burke, Stephen T., Jr.

Behringer, Hermann, assignor to Bayerische Motoren Werke AG., Munich, Germany. Change speed and starting gearing for motorcycles. 2,644,439, July 7.

Bell Aircraft Corporation, assignee: *See*—
Kelley, Bartram.

Bellstaedt, Gustav, New York, N. Y. Internal measuring instrument. 2,644,239, July 7.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Barry, Joseph F., and Ruggles.
Kircher, Reymond J.
Thurber, Elmer A., and Wooten.

Bem, Joseph P., San Jose, Calif. Mop and shaker rod. 2,644,184, July 7.

Bendix Aviation Corporation, assignee: *See*—
Fricke, Guy C., Bimberg, and Schaffer.
Miller, Donald L.
Mock, Frank C.
Price, Earl R., and Thomas.
Tapke, Kenneth W.
Waterman, Herbert C., and Kuzmitz.

Benmax, Sydney, Chiswick, London, England. Upholstery supporting means and using the same. 2,644,510, July 7.

Bennes, William J., Irvington, and C. E. Leyes, Union, N. J., assignor to Celanese Corporation of America, New York, N. Y. Method and apparatus for forming films. 2,644,195, July 7.

Bennett, Elbert V., and H. Renn, Albany, assignors to M and M Wood Working Company, Portland, Oreg. Routing machine for removing defects from wood. 2,644,495, July 7.

Benoit, Jeanoe A., Anthony, R. I. Surgical instrument. 2,644,455, July 7.

Bentley, Robert H., assignor to The Arrow-Hart & Hegeman Electric Co., Hartford Conn. Snap switch. 2,644,865, July 7.

Beretvas, Helen S., assignor to Standard Oil Company, Chicago, Ill. Sulfurizing esters. 2,644,810, July 7.

Beretvas, Helen S., assignor to Standard Oil Company, Chicago, Ill. Sulfurization of oxygenated aliphatic compounds. 2,644,811, July 7.

Beretvas, Helen S., assignor to Standard Oil Company, Chicago, Ill. Sulfurizing fats and fatty acids. 2,644,825, July 7.

Berger Brothers Company, The, assignee: *See*—
Champagne, Emory C.

Bergmann, Richard F.: *See*—
Musschoot, Albert, Bergmann, and Young.

Berlyn, Martin J., Suffield, Conn., assignor to American Locomotive Company, New York, N. Y. Valve actuating mechanism. 2,644,436, July 7.

Berninger, Ernest L., Peru, and D. L. Richards, La Salle, Ill., assignors to General Time Corporation, New York, N. Y. Casing for an electrical clock movement having a cord storage compartment. 2,644,853, July 7.

Bevevino, Angelo J., Petrolia, Pa., assignor to L. Sonneborn Sons, Inc. Wax slabbing method. 2,644,196, July 7.

Bevevino, Angelo J., Petrolia, Pa., assignor to L. Sonneborn Sons, Inc. Wax winding and slabbing device. 2,644,645, July 7.

Bill, Robert O., San Leandro, Calif. Convertible spring and hydraulic loading means for vehicles. 2,644,696, July 7.

Billman, Louis S., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Aerial missile. 2,644,396, July 7.

Bimberg, Elmer M.: *See*—
Fricke, Guy C., Bimberg, and Schaffer.

Birdsall, Edwin H., San Diego, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Projection plotting lens and optical system. 2,644,361, July 7.

Biribauer, Frank A.: *See*—
Carlson, Carl S., Biribauer, and Porter.

Bixby, Harry A., Brattleboro, Vt. Wallpaper pasting machine. 2,644,424, July 7.

Black, William A., Montclair, N. J., assignor to General Time Corporation. Electric clock. 2,644,293, July 7.

Blair, Walter, Detroit, Mich. Pneumatic hoist. 2,644,307, July 7.

Blinking Dool Enterprises, Incorporated, The, assignee: *See*—
Romano, Anthony.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Polyvinyl acetal resins. 2,644,807, July 7.

Bloch, Herman S., Chicago, and A. E. Hoffman, Clarendon Hills, assignors to Universal Oil Products Company, Chicago, Ill. Process and product of producing hydrocarbon drying oils. 2,644,847, July 7.

Blunt, Royden A., Baltimore, Md. Bottle. 2,644,599, July 7.

Boko, Roy A., Houston, Tex., assignor to Phillips Petroleum Company. Gas lift valve. 2,644,404, July 7.

Bondley, Ralph J., Scotia, N. Y., assignor to General Electric Company. Electron beam discharge device. 2,644,906, July 7.

Bonn, Theodore H., Philadelphia, and D. C. Wendell, Jr., Bryn Mawr, assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Electrodeposition of a magnetic coating. 2,644,787, July 7.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Wall mounted air conditioning unit. 2,644,321, July 7.

Borg-Warner Corporation, assignee: *See*—
Flinn, George E.
Warrick, Leland K., and Lf Flame.
Youngren, Harold J., and Hettinger.

Boston Woven Hose and Rubber Company, assignee: *See*—
Collins, Don F., Apel, and Fuller.

Bourne, Roland B., West Hartford, assignor to The Maxim Silencer Company, Hartford, Conn. Silencer with plural expansion chambers and outlet conduits. 2,644,642, July 7.

Bowditch, Hoel L., assignor to The Foxboro Company, Foxboro, Mass. Bourdon tube. 2,644,336, July 7.

Bradley, William E., Newtown, assignor to Philco Corporation, Philadelphia, Pa. Cathode-ray tube system utilizing indexing signals. 2,644,855, July 7.

Braker, William: *See*—
Lott, William A., Braker, and O'Keeffe.

Bramming, Carl, Anderson, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Container for a plurality of vacuum bottles. 2,644,578, July 7.

Brand, David: *See*—
Pollack, Hyman, and Brand.

Breeze, George E., and R. I. Mason, Waterford, Conn., assignors to the United States of America as represented by the Secretary of the Navy. Control compass. 2,644,243, July 7.

Breidert, G. C., Co., The, assignee: *See*—
Breidert, George M.

Breidert, George M., La Cresenta, assignor to The G. C. Breidert Co., Los Angeles, Calif. Smoke siphoning ash tray. 2,644,467, July 7.

Brendel, Armin G., Suffern, assignor to American Cyanamid Company, New York, N. Y. Apparatus for spray drying. 2,644,516, July 7.

Brennan, John E., Chicago, Ill. Denture retainer. 2,644,231, July 7.

Briscoe, Elmer G., Fresno, Calif. Adjustable mount for tool bars. 2,644,694, July 7.

British Celanese Limited, assignee: *See*—
Downing, John, and Drewitt.

Britt, Edwin H., Raleigh, N. C., assignor, by mesne assignments, to Harris Foundry and Machine Company, Cordele, Ga. Automatic crate loading machine. 2,644,626, July 7.





Broadwell, Herbert S.: *See*—
Peterson, Robert H., and Broadwell.

Broido, Daniel, Barnet, England. Calculating machine. 2,644,638, July 7.

Bronstein, Harry: *See*—
Shmukler, Albert, and Bronstein.

Brooks, Richard E., and R. C. Schreyer, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing alcohols from olefins. 2,644,844, July 7.

Brown, Charles H., Breckenridge, Tex. Levee building machine. 2,644,252, July 7.

Brown, Cicero C., Houston, Tex. Method and apparatus for connecting well casings to liners. 2,644,523, July 7.

Brown Citrus Machinery Corporation, assignee: *See*—
Harden, Carl.
Wells, Lloyd A.

Brown, Clifford S., Wauwatosa, assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Library shelf arrangement. 2,644,588, July 7.

Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Medicament vial. 2,644,452, July 7.

Brown, Howard S., Elyria, Ohio. Coin holder. 2,644,471, July 7.

Brown, John H., Springfield, Mass. Beer tap. 2,644,610, July 7.

Brown, Ralph L., and J. E. Vance, assignors to The Hoover Company, North Canton, Ohio. Suction cleaner casing assembly. 2,644,190, July 7.

Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Reversing and leveling means for two-way plows. 2,644,385, July 7.

Brubaker, Merlin M., Chadds Ford, Pa., and R. N. MacDonald, New Castle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. N-carbonhydrides and polymers therefrom. 2,644,808, July 7.

Brueder, Antoine, assignor to Societe Anonyme Andre Citroen, Paris, France. Device having the dual function of electromagnetic clutch and alternator. 2,644,805, July 7.

Bullock, Ward E.: *See*—
Lawson, Bert E., and Bullock.

Burke, Stephen T., Jr., Astoria, assignor of twenty-five per cent to Henry Behr, Jamaica, N. Y. Expansible core for coils of rope or the like. 2,644,650, July 7.

Burns, Jabez, & Sons, Inc., assignee: *See*—
Scull, William S., 2d, and Fisher.

Burroughs Adding Machine Company, assignee: *See*—
Butler, Thomas M.

Butler, Thomas M., assignor to Burroughs Adding Machine Company, Detroit, Mich. Accounting machine. 2,644,637, July 7.

Cadman, Colin Q., Silver City, N. Mex. Ash tray. 2,644,601, July 7.

Cagle, Toby T., assignor to Airheart Products, Inc., Long Beach, Calif. Brake disk wear compensating and indicating means. 2,644,549, July 7.

Cahill, Joseph J.: *See*—
Holly, Frederick W., Shunk, Cahill, and Folkers.

Calabrese, George V., assignor to Lumenite Electronic Company, Chicago, Ill. Control means for coffee-making apparatus. 2,644,478, July 7.

Calfee, John D., Manhasset, N. Y., and C. A. Kraus, Providence, R. I., assignors to Standard Oil Development Company. Hydroxylated aluminum halide polymerization catalyst. 2,644,798, July 7.

California Research Corporation, assignee: *See*—
Shiffler, William H.

Calkins Manufacturing Company, assignee: *See*—
Guyer, Morris W., and Calkins.

Calkins, Oscar C.: *See*—
Guyer, Morris W., and Calkins.

Callaway Mills Company, assignee: *See*—
Parker, Samuel P., and Thompson.

Calvin, Elizabeth C., Lenwood, Kans. Hand-supported suction brush for clothes. 2,644,189, July 7.

Campbell, George E.: *See*—
Hanes, James G., Jr., and G. S. and G. E. Campbell.

Campbell, George S.: *See*—
Hanes, James G., Jr., and G. S. and G. E. Campbell.

Campton, James F., Freeport, N. Y. Collapsible clothes drier. 2,644,592, July 7.

Canada Packers Limited, assignee: *See*—
Fill, Metro.

Cangemi, Luigi, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Article with passages. 2,644,665, July 7.

Cannon, Harry B., Chestertown, Md., and O. H. Trudeau, Manteno, Ill.; said Trudeau assignor to said Cannon. Concentration and separation of granular mixtures. 2,644,583, July 7.

Cantinieau, Jean: *See*—
Maillard, Francis, Laville, and Cantinieau.

Capitani, Arnold P., Detroit, Mich. Rearview for motor vehicles. 2,644,363, July 7.

Carbary, Richard J., Erie, Pa., assignor to General Electric Company. Frost indicator for refrigerators. 2,644,422, July 7.

Carborundum Company, The, assignee: *See*—
O'Neil, Joseph R., Jr.

Carlson, Carl S., Roselle, F. A. Biribauer, and C. E. Porter, Cranford, N. J., assignors to Standard Oil Development Company. Precipitation of nonvolatile substances in distillation of Fischer-Tropsch synthesis mixtures. 2,644,786, July 7.

Carpenter, Edgar L., Wichita Falls, Tex. Under reaming device. 2,644,668, July 7.

Carr, Clifford H., Kansas City, Mo. Insert nozzle. 2,644,720, July 7.

Case, J. I., Company, assignee: *See*—
Russell, Stanley D.

Casey, John C., San Francisco, Calif. Palate support for smokers' pipes. 2,644,405, July 7.

Castelfranco, James: *See*—
Sanz, Manuel C., and Castelfranco.

Castle, Joseph T., Cleveland, Ohio. Instrument for boring aligned holes. 2,644,348, July 7.

Castle, Karl E., Washington, D. C., assignor to Invincible Metal Furniture Company, Manitowoc, Wis. Edge binder for furniture with covered metal tops. 2,644,733, July 7.

Celanese Corporation of America, assignee: *See*—
Bennes, William J., and Leyes.

Certain-teed Products Corporation, assignee: *See*—
Miller, John E.

Champagne, Emory C., Woodbridge, assignor to The Berger Brothers Company, New Haven, Conn. Inflatable pad. 2,644,449, July 7.

Chatham Electronics Corporation, assignee: *See*—
Lehrer, Norman H.

Chatten, Clarence K., Jackson Heights, N. Y. Machine for preparing test samples of rubber and the like material. 2,644,277, July 7.

Chauveau, Louis, Paris, France, assignor to Societe Francaise Radio-Electrique. Apparatus for the transmission of alarm signals. 2,644,937, July 7.

Chempatents, Inc., assignee: *See*—
Cunningham, George L.

Chernlavsky, Alexander J.: *See*—
Johnson, Ava J., and Chernlavsky.

Chiapella, Giuseppe, assignor to Officine Viberti Societa per Azioni, Turin, Italy. Platform for connecting the contiguous sections of articulated vehicles. 2,644,714, July 7.

Chicago Metal Hose Corporation, assignee: *See*—
Schindler, Frank S., and Titus.

Chilcott, Adrian E., Detroit, and W. F. Grier, Royal Oak, assignors to Chrysler Corporation, Highland Park, Mich. Toolholder. 2,644,224, July 7.

Childress, Randall J., Norwalk, Calif., assignor to General Mills, Inc. Automatic diverter for pneumatic conveyers. 2,644,722, July 7.

Childress, William C., Oak Park, and A. I. Eriesson, assignors to Signode Steel Strapping Company, Chicago, Ill. Strap joint-forming mechanism. 2,644,356, July 7.

Childs, Walter H., Sr., St. Petersburg, Fla. Battery switch. 2,644,864, July 7.

Christensen, Byron C., assignor to Drilling Equipment Mfg. Co., Oklahoma City, Okla. Quick-opening valve. 2,644,486, July 7.

Christian, Raymond A., and J. R. Ganger, assignors to The National Cash Register Company, Dayton, Ohio. Control mechanism for accounting machines. 2,644,636, July 7.

Chrysler Corporation, assignee: *See*—
Cangemi, Luigi.
Chilcott, Adrian E., and Grier.

Ciaio, Joseph A., Corona, N. Y. Laminated shoe sole. 2,644,250, July 7.

Ciba Limited, assignee: *See*—
Jenny, Walter, and Kern.

Cluff, Clarence L., assignor to Norfolk Paper Company, Inc., Randolph, Mass. Box. 2,644,632, July 7.

Clark, Earnest H., Jr.: *See*—
Baker, John R., and Clark.

Clarkson, Alirk, Itasca, assignor of one-half to Vapor Heating Corporation, Chicago, Ill. Proportioning control system. 2,644,641, July 7.

Clements, Norman T., Pittsburgh, Pa. Structural building unit. 2,644,327, July 7.

Clevenger, Galen H., Newtonville, Mass., and L. A. Creglow, Salt Lake, Utah. Pouring apparatus for filtering operations. 2,644,743, July 7.

Cohen, Maximilian, Brooklyn, N. Y. Dental floss container and manipulator. 2,644,469, July 7.

Cohn, Irwin, Leominster, Mass. Drinking doll with movable members. 2,644,272, July 7.

Collins, Don F., Pontiac, Mich., G. E. Apel, Belmont, and R. W. Fuller, Wayland, assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass. Endless hand grinding machine. 2,644,278, July 7.

Collins, Fred V.: *See*—
Stahl, William F., and Collins.

Computer Research Corporation of California, assignee: *See*—
Wolfe, Albert E., Jr.

Connor, W. B., Engineering Corp., assignee: *See*—
Dauphinee, George S.

Continental Machines, Incorporated, assignee: *See*—
Crane, Robert L.

Continental Motors Corporation, assignee: *See*—
Altmao, Peter, and Bakke.
Bachle, Carl F.
Hixle, Ralph A.

Corey, George H., assignee: *See*—
Mercier, Pierre E.

Corning Glass Works, assignee: *See*—
Bailey, Thomas W.

Cotchett, Louis M., assignor to Textile Engineering Corporation, Whitman, Mass. Ball bearing top roll. 2,644,202, July 7.

Covington, Carl A.: *See*—
Earle, Clarence E., and Covington.

Cowgill, Harry B., Jr., Raeford, N. C. Airplane with auxiliary lifting rotor. 2,644,653, July 7.

Coxe, Winthrop K., Covina, and W. J. Merboth, Arcadia, Calif., assignors, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio. Device for jet propulsion through water. 2,644,297, July 7.

Craig, Louis E., Washington, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of cyclooctatriene. 2,644,848, July 7.

Craig, Louis E., Washington, N. J., and I. J. Ressa, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Preparation of cyclooctatriene. 2,644,849, July 7.

Crane Co., assignee: *See*—
Hansen, George.

Crane, Robert L., assignor to Continental Machines, Incorporated, Savage, Minn. Safety lock for band saw tensioning mechanism. 2,644,492, July 7.

Crary, Leonard R., Philadelphia, Pa. Overload protective system. 2,644,583, July 7.

Crawford, William B., South Bend, Ind., assignor to United States Rubber Company, New York, N. Y. Making containers. 2,644,198, July 7.

Creglow, Loran A.: *See*—
Clevenger, Galen H., and Creglow.

Cresswell, Arthur, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Spinning solutions comprising an acrylonitrile-allyl alcohol copolymer. 2,644,803, July 7.

Cross, Joseph A., Westerville, Ohio, assignor to Mojonnier Bros. Co., Inc., Chicago, Ill. Pasteurizing methods and apparatus. 2,644,758, July 7.

Crossley, Frank S., Collingdale, Pa., assignor to Merck & Co., Inc., Rahway, N. J. Alkylation of arylmethyl methyl ketones. 2,644,843, July 7.

Cryns, Joseph, Chicago, Ill. Baking frame. 2,644,444, July 7.

Cunningham, George L., Brooklyn, assignor, by mesne assignments, to Chempatents, Inc., New York, N. Y. Sulfite waste treatment process. 2,644,748, July 7.

Cunningham, Raymond W.: *See*—
Harned, Ben K., and Cunningham.

Currivan, John F., Hudson, N. Y., assignor, by mesne assignments, to Emhart Manufacturing Company. Carton loading device. 2,644,625, July 7.

Curtis Company, assignee: *See*—
Stedman, James A.

Curtis, John C., and H. F. Minnis, Claremont, N. H., assignors to Joy Manufacturing Company, Pittsburgh, Pa. Mobile drilling apparatus. 2,644,669, July 7.

Curtis, Myron S., and H. Schoepe, assignors to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,644,222, July 7.

Cushman, Walton W., Webb City, Mo. Panel fastening means. 2,644,553, July 7.

Cutter, Fred A., Oakland, assignor to Cutter Laboratories, Berkeley, Calif. Blood strainer and drip meter. 2,644,586, July 7.

Cutter Laboratories, assignee: *See*—
Cutter, Fred A.

Cutter Laboratories, Inc., assignee: *See*—
Beacham, Robert C.

Daboll, Don, Durango, Colo. Single lever saw swage. 2,644,347, July 7.

Dakis, Hercules D., San Diego, Calif. Fish canning process and pack. 2,644,757, July 7.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Sulfonated aryl-acetylene resins. 2,644,801, July 7.

Dall, Edward D., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Automobile door latch. 2,644,707, July 7.

Danielsen, August A., Rosedale, and A. P. Schleret, Babylon, assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y. Machine gun mount and shock absorber. 2,644,366, July 7.

Danison, Robert C., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Process and charge for manufacturing sodium silicate glasses. 2,644,742, July 7.

Danly Machine Specialties, Inc., assignee: *See*—
Georgeff, Vasil.

Dann, Herman, Brooklyn, N. Y. Inserting single sheets into folded sheets and apparatus for performing the same. 2,644,686, July 7.

Dauphinee, George S., Brooklyn, assignor to W. B. Connor Engineering Corp., New York, N. Y. Diffuser for air conditioning systems. 2,644,389, July 7.

Davis, Harold G., Denver, Colo. Waste receptacle. 2,644,737, July 7.

Davis, Harry R., Beverly Hills, assignor of one-half to H. A. Sanders, Smith River, Calif.; J. C. F. Merrifield executor of said H. A. Sanders, deceased. Wood wall structure. 2,644,204, July 7.

Dawson, Lewis J., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Device for preventing clogging in centrifugal pumps. 2,644,403, July 7.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Morpholine derivatives. 2,644,819, July 7.

De Beurs, Pieter H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit-arrangement comprising a cathode-ray tube. 2,644,909, July 7.

Debrie, André V. L. C., Paris, France. Film magazine. 2,644,646, July 7.

Deere & Company, assignee: *See*—
Brown, Theophilus.
Oehler, William P.

Deere Manufacturing Co., assignee: *See*—
Jirsa, Emil F.

Deering Milliken Research Trust, assignee: *See*—
Smith, Philip N.

De France, Henri G., assignor to Society "La Radio-Industrie," S. A., Paris, France. System for the electromagnetic spotting of movable targets. 2,644,940, July 7.

Delf, George A., Creve Cour, and G. A. Delf, University City, Mo. Reversible-flow window fan. 2,644,390, July 7.

Delf, Glenn A.: *See*—
Delf, George A. and Glenn A.

Denison, Henry W., and L. E. Johnson, assignors to Denison-Johnson, Inc., Mankato, Minn. Fishing reel. 2,644,647, July 7.

Denison-Johnson, Inc., assignee: *See*—
Denison, Henry W., and Johnson.

Derr, Willard A., and M. E. Reagan, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Supervisory control system. 2,644,931, July 7.

Detch, Lewis, Pittsburgh, Pa. Cartridge fuse. 2,644,871, July 7.

Détrez, René, Nogent-sur-Marne, France. System for controlling the movements of hydraulically operated pistons. 2,644,309, July 7.

Détrez, René, Nogent-sur-Marne, France. Plural motor hydraulic device for controlling the movements in machines and apparatus for washing, filling, stoppering, capsuling, and labeling bottles. 2,644,310, July 7.

Diamond, Abraham: *See*—
Williams, Jack, and Diamond.

Diamond Alkali Company, assignee: *See*—
Danison, Robert C.

Diamond Paper & Box Company, assignee: *See*—
Stopper, Charles A.

Dickie, Alan B., Bath, Somerset, England. Dial indicating mechanism for measuring instruments. 2,644,335, July 7.

Diesel, Richard H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Outside auxiliary door lock for automobiles. 2,644,709, July 7.

Dietz, Clifford H., assignor to Hall-Neal Furnace Company, Indianapolis, Ind. Forming a fin radiator assembly. 2,644,225, July 7.

Dikeman, Myron J., Grosse Pointe Woods, Mich. Fluid power drive and control unit. 2,644,561, July 7.

Dishal, Milton, and J. S. Le Grand, Nutley, N. J., assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y. Coupling circuits. 2,644,927, July 7.

Dittisheim, Robert, La Chaux-de-Fonds, Switzerland. Alarm wrist watch. 2,644,294, July 7.

Dr. Ing. h. c. F. Porsche K. G., assignee: *See*—
Rabe, Karl.

Dodds, Robert B., Woodbridge, A. N. Hibbs, Mount Carmel, and J. D. Napier, Hamden, Conn., assignors to The Safety Car Heating and Lighting Company, Inc. Method and apparatus for treating products, including destroying insect life, disintegrating, cleaning, and separating. 2,644,740, July 7.

Doeg, Ralph W., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Piston and rod connection. 2,644,731, July 7.

Donahue, Joseph F., assignor to General Building Materials, Inc., South Bend, Ind. Prefabricated bathroom structure. 2,644,203, July 7.

Doolan, William, Washington, D. C. Safety mechanism or control for elevators. 2,644,546, July 7.

Doolan, William, Washington, D. C. Elevator overload safety device. 2,644,547, July 7.

Dorey, George B., Westmont, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Gate closing and locking mechanism for discharge outlets of car hoppers. 2,644,408, July 7.

Dorton, John M., Bonner Springs, Kans. Automobile seat structure. 2,644,505, July 7.

Dorton, John M., Bonner Springs, Kans. Floating motion cushion for vehicles and furniture. 2,644,509, July 7.

Douil, Robert M., and M. Radonich, assignors to Piling Limited, Montreal, Quebec, Canada. Cement applying apparatus. 2,644,725, July 7.

Downing, John, and J. G. N. Drewitt, Spondon, near Derby, England, assignors to British Celanese Limited. Manufacture of cellulose ethers. 2,644,818, July 7.

Downs, Jack E., Schenectady, N. Y., assignor to General Electric Company. Feedwater heater arrangement for steam turbine power plants. 2,644,308, July 7.

Drager, Otto H., assignee: *See*—
Tietze, Hermann.





Drewitt, James G. N.: *See*—
Downing, John, and Drewitt.

Dreyfuss, Paul D.: *See*—
Gaspar, Bela, and Dreyfuss.

Drieschman, Donald F., Los Altos, and E. F. Wesenberg, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube. 2,644,907, July 7.

Drilling Equipment Mfg. Co., assignee: *See*—
Christensen, Byron C.

Drosdat, Herbert, assignee: *See*—
Spalding, Clarence A.

Drum Corporation, The, assignee: *See*—
Guimond, Charles W.

Dudley, Carl W., Beverly Hills, Calif. Tray support. 2,644,660, July 7.

Duke, Harry, W. B. Greenwood, and J. Thomas, Winston-Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y. Magnetic axis and polarity testing device. 2,644,910, July 7.

Duncan, Russell F., Berea, Ohio, assignor to Ferro Corporation. Ceramic pigment and manufacture of same. 2,644,767, July 7.

Dunlap, William C., Jr., Schenectady, N. Y., assignor to General Electric Company. Germanium photocell. 2,644,852, July 7.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Brooks, Richard E., and Schreyer.
Brubaker, Merlin M., and MacDonald.
Gresham, William F.
Hager, Glenn F.
Lontz, John F.
Schweitzer, Carl E.
Tabet, Georges E.

Duro-Test Corporation, assignee: *See*—
Williams, Rollo G.

Dürr, Walter, L. Huber and F. Haag, Uberlingen, assignors to Helzmotoren-Gesellschaft, Uberlingen am Bodensee, Germany. Burner device having heat exchange and gas flow control means for maintaining pyrophoric ignition therein. 2,644,512, July 7.

Duus, Ray, Beverly Hills, Calif. Liquid meter. 2,644,333, July 7.

Dyer, Edwin F.: *See*—
Smoluk, George and Dyer.

Earle, Clarence E., Washington, D. C., and C. A. Covington, Alexandria, Va. Fluid valve. 2,644,480, July 7.

Ebel, Francis L., Stanmore, and A. J. Maisey, Southall, assignors to The Fairey Aviation Company Limited, Hayes, England. Visible indicator. 2,644,939, July 7.

Ebert, Edward A., Snyder, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Automatic phonograph. 2,644,565, July 7.

Eckert-Mauchly Computer Corporation, assignee: *See*—
Bonn, Theodore H., and Wendell.

Economy Fuse and Manufacturing Co., assignee: *See*—
Laing, Gordon F.

Eder, Louise J., executrix, assignee: *See*—
Eder, Mathias L.

Eder, Mathias L., Canton, Ohio, L. J. Eder, executrix of said M. L. Eder, deceased, assignor to L. J. Eder, Canton, Ohio. Ferrous alloys. 2,644,747, July 7.

Eitel-McCullough, Inc., assignee: *See*—
Drieschman, Donald F., and Wesenberg.

Elgin Softener Corporation, assignee: *See*—
Mansen, Harry.

Elliott, Robert R., Sr., Pawtucket, R. I., assignor, by mesne assignments, to Whitin Machine Works. Textile roll assembling and disassembling apparatus. 2,644,226, July 7.

Ellis, Arthur M., Knoxville, Tenn. Separable button attaching device. 2,644,209, July 7.

Ellis-Foster Company, assignee: *See*—
Hammer, Irving P., and Rust.

Emhart Manufacturing Company, assignee: *See*—
Currivan, John F.

Emmett, Gertrude M. and M. W., Los Angeles, Calif. Ironing board cover. 2,644,257, July 7.

Emmett, Milton W.: *See*—
Emmett, Gertrude M., and M. W.

Emmi, James: *See*—
Tauscher, Vernon A., Slater, and Emmi.

Enders, William C., Oklahoma City, Okla. Nesting type store service carrier. 2,644,695, July 7.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.

Erickson, Clifford E.: *See*—
Hammell, Kemper M., and Erickson.

Eriesson, Arvid I.: *See*—
Childress, William C., and Ericsson.

Ericsson, Eric A., E. W. Hullegård, and A. C. Jacobaeus, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, England. Pulse amplitude responsive selective. 2,644,932, July 7.

Erwin Mills, Inc., assignee: *See*—
Harden, Milton R.

Eskin, Samuel G., Pittsburgh, Pa., and A. M. Arkelyan, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control device. 2,644,640, July 7.

Etablissements H. Saint-Maurice & Cie, Societe a Responsabilite Limitee, assignee: *See*—
Saint-Maurice, Henri.

Etc., Inc., assignee: *See*—
Foster, Cyril J.

Ethyl Corporation, assignee: *See*—
Neher, Clarence M., Padgitt and Weimer.

Evans, Emanuel E., assignee: *See*—
Gordon, Harold L.

Eyeglshimer, Ralph W., Troy, assignor to Beaunit Mills, Inc., New York, N. Y. Platform ramp. 2,644,180, July 7.

Failing, George E., assignor to George E. Failing Supply Company, Enid, Okla. Elevator grapple. 2,644,713, July 7.

Failing, George E., Supply Company, assignee: *See*—
Failing, George E.

Fairbank, Murry N.: *See*—
Wolff, Otto E., and Fairbank.

Fairey Aviation Company Limited, The, assignee: *See*—
Ebel, Francis L., and Maisey.

Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, assignee: *See*—
Fischer, Ernst.

Farmer, Horace E., Grosse Pointe Farms, Mich. Power-operated, gear-controlled multiple socket wrench. 2,644,357, July 7.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Dishal, Milton, and Le Grand.

Fellows Gear Shaper Company, The, assignee: *See*—
Miller, Edward W.
Praeg, Walter S.

Ferro Corporation, assignee: *See*—
Duncan, Russell F.

Fields, Joseph E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Hydrocarbon oil compositions. 2,644,794, July 7.

Fields, Joseph E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Hydrocarbon oil composition. 2,644,795, July 7.

Fill, Metro, West Kildonan, Manitoba, assignor to Canada Packers Limited, Saint Boniface, Manitoba, Canada. Aitchbone cutter. 2,644,194, July 7.

Finke, Herbert A., and A. H. Sonnenschein, New York, assignors to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Mode suppressor for external cavity klystron oscillators. 2,644,889, July 7.

Finlayson, Frank E., Ontario, Calif., assignor to General Electric Company. Retractable stand for flatirons. 2,644,256, July 7.

Fischer, Ernst, Offenbach am Main, assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt, Germany. Water-insoluble monoazodyestuffs. 2,644,814, July 7.

Fisher, George A.: *See*—
Scull, William S., 2nd, and Fisher.

Flick, Francis S., Chicago, Ill., assignor to Miller Motor Company. Piston rod seal. 2,644,701, July 7.

Flinn, George E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Overdrive transmission. 2,644,550, July 7.

Foley, James F., and F. C. Gleason, assignors to Remington Rand Inc., New York, N. Y. Visible card index file. 2,644,457, July 7.

Folkers, Karl: *See*—
Holly, Frederick W., Shunk, Cahill, and Folkers.

Food Machinery and Chemical Corporation, assignee: *See*—
Zettlemoyer, Albert C., Walker, and Stump.

Ford, Robert S., Pascagoula, Miss. Power-operated servomechanism for use in steering gears and the like. 2,644,428, July 7.

Forgett, Valmore J., Ridgefield, assignor to Sweco Products, Inc., Ridgefield Park, N. J. Developer for continuous strip of photographic paper. 2,644,384, July 7.

Foss, Curtis D., Bell, Calif. Vent plug. 2,644,609, July 7.

Foster, Cyril J., Chicago, Ill., assignor to Etc., Inc., Niles, Mich. Toaster. 2,644,302, July 7.

Foster, Edwin E., assignor to Majik-Ironers, Inc., Austin, Tex. Iron supporting linkage. 2,644,255, July 7.

Foster Wheeler Corporation, assignee: *See*—
Frisch, Martin, and Whitney.

Four-Way Awning Company, assignee: *See*—
McCormack, John C., and White.

Fox, Gerald B., and D. A. Meeker, assignors to The Hobart Manufacturing Company, Troy, Ohio. Dishwasher. 2,644,473, July 7.

Foxboro Company, The, assignee: *See*—
Bowditch, Hoel L.

Francisco, Marshall E., San Jose, Calif. Pitting and stuffing apparatus conveyer. 2,644,569, July 7.

Frankel, Theodore, New York, N. Y. Seal. 2,644,711, July 7.

Frankenburg, Walter G., Millersville, Pa., assignor to General Cigar Co., Inc., New York, N. Y. Tobacco treatment. 2,644,462, July 7.

Franklin Transformer Manufacturing Company, Inc., assignee: *See*—
Hammond, Jasper C.

Freeman, David A., assignee: *See*—
Schultz, Roy M.

Fricke, Guy C., E. M. Bimberg, and D. J. Schaffer, Detroit, Mich., assignors to Bendix Aviation Corporation, South Bend, Ind. Governor having spring rate and tension adjustment means. 2,644,682, July 7.

Friday, James D., and W. F. Stillwell, assignors of one-half to F. D. Mays and E. L. Williams, Dallas, N. C. Five-roll double-draft frame. 2,644,201, July 7.

Friden Calculating Machine Co., Inc., assignee: *See*—
Hawthorne, Nathaniel F.

Frisch, Martin, New York, and G. C. Whitney, Jr., Dansville, assignors to Foster Wheeler Corporation, New York, N. Y. Laminated-ring and multiple internal-roll mill. 2,644,643, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Paper making process utilizing modified locust bean gum. 2,644,749, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Paper making process utilizing modified locust bean gum. 2,644,750, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Paper making process utilizing modified locust bean gum. 2,644,751, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Paper making process utilizing modified locust bean gum. 2,644,752, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Modified locust bean gum, solution thereof and making a locust bean gum solution. 2,644,762, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Modified locust bean gum, solution thereof and making a locust bean gum solution. 2,644,763, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Modified locust bean gum, solution thereof and making a locust bean gum solution. 2,644,764, July 7.

Frisch, Nat, White Plains, and F. J. Sweeney, Forest Hills, assignors to Stein, Hall & Company, Inc., New York, N. Y. Modified locust bean gum, solution thereof and making a locust bean gum solution. 2,644,765, July 7.

Frisk, Walter E., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Centering device. 2,644,241, July 7.

Frost Company, assignee: *See*—
Russell, Robert E.

Fryklund, Robert A., Somerville, Mass., assignor to Raytheon Manufacturing Company. Electrical switch. 2,644,863, July 7.

Fuller, Richard W.: *See*—
Collins, Don F., Apel, and Fuller.

Gabrielsen, Christian, assignor to Rowe Manufacturing Co., Inc., Whippany, N. J. Beverage vending machine. 2,644,734, July 7.

Gadsden, Christopher P., Belmont, A. B. Macnee, Boston, H. Waltman, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. High-frequency wide band amplifier. 2,644,860, July 7.

Gaglio, Oswald, Nice, France. Semiautomatic ignition control device. 2,644,438, July 7.

Gammie, John E.: *See*—
Kommehar, Victor J., and Gammie.

Ganger, Jesse R.: *See*—
Christian, Raymond A., and Ganger.

Gantenbein, Robert P., assignee: *See*—
Rockwell, Chauncey L.

Gardner, George F., Scotia, N. Y., assignor to General Electric Company. Recording device. 2,644,738, July 7.

Gargisa, Marion: *See*—
Rudel, Harry W., and Gargisa.

Gaspar, Bela, Beverly Hills, and P. D. Dreyfuss, Van Nuys, Calif., assignors, by mesne assignments, to said Gaspar. Azo dyes and their use in color photography. 2,644,753, July 7.

Gazda, Antoine, Providence, R. I. Snow track for motor vehicles. 2,644,539, July 7.

Geddert, William J., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Tractor-trailer fifth wheel coupling mechanism. 2,644,693, July 7.

Gehman, John B., Haddonfield, N. J., assignor to Radio Corporation of America. Transitor pulse memory circuits. 2,644,892, July 7.

Gehman, John B., Haddonfield, N. J., assignor to Radio Corporation of America. Semiconductor pulse memory circuits. 2,644,893, July 7.

General Aniline & Film Corporation, assignee: *See*—
Craig, Louis E.
Craig, Louis E., and Ressn.

General Bronze Corporation, assignee: *See*
Danielsen, August A., and Schleret.

General Building Materials, Inc., assignee: *See*—
Donahue, Joseph F.

General Cigar Co., Inc., assignee: *See*—
Frankenburg, Walter G.

General Electric Company, assignee: *See*—
Alexanderson, Ernst F. W., and Kuenning.
Alexanderson, Ernst F. W., and Nizdorff.
Atchison, Leonard W.
Bondley, Ralph J.
Carbary, Richard J.
Downs, Jack E.
Dunlap, William C., Jr.
Finlayson, Frank E.
Gardner, George F.
Hammell, Kemper M., and Erickson.
Janos, Alfred G.
Kidd, Robert K.
Martin, Robert W.
Miller, Nicholas.
Paulsen, Paul L.
Reynolds, Merl T.
Robinson, John H.
Schumacher, Frank A., and Tucker.
Sebens, Carl R.
Worst, Joseph C.
Wyman, Howard A., Jr.

General Mills, Inc., assignee: *See*—
Childress, Randall J.

General Nailing Machine Corporation, assignee: *See*—
Paxton, Gerald C.

General Precision Laboratory Incorporated, assignee: *See*—
Luhrs, Charles H., and Tull.

General Time Corporation, assignee: *See*—
Berninger, Ernest L., and Richards.
Black, William A.

Georgeff, Vasil, La Grange Park, assignor to Danly Machine Specialties, Inc., Chicago, Ill. High-speed double-action press. 2,644,417, July 7.

Geppert, Clark H., assignee: *See*—
Paske, Wallace H.

Gerael, Peter P., San Jose, Calif. Free coil line winder. 2,644,648, July 7.

Gesellschaft zur Forderung der Forschung an der Eidg. Technischen Hochschule Zurich, assignee: *See*—
Hetzel, Max, Mast, and Thiemann.

Gevaert Photo-Producten N. V., assignee: *See*—
Jennen, Jacob J., and Vandenbroele.

Gillette Company, The, assignee: *See*—
Muros, Joseph.

Gillette, Edwin, Los Angeles, Calif. Hinge and gate construction. 2,644,258, July 7.

Gilmore, Carleton W., deceased, Pampa, Tex.; M. M. Gilmore, Independence, Tex., executrix of said C. W. Gilmore. Carburetor for internal-combustion engines. 2,644,678, July 7.

Gilmore, Mary M., executrix: *See*—
Gilmore, Carleton W.

Glazebrook, James R., New York, N. Y., and A. T. Wille, Waukegan, Ill., assignors to Johns-Manville Corporation, New York, N. Y. Brake shoe and assembling. 2,644,551, July 7.

Gleaner Harvester Corporation, assignee: *See*—
Oberholtz, Lester E.
Oberholtz, Lester E., and Allen.

Gleason, Frederick C.: *See*—
Foley, James F., and Gleason.

Globe Automatic Sprinkler Company of Pennsylvania, assignee: *See*
Rowley, Arthur C.

Globe-Wernicke Co., The, assignee: *See*—
MacDonald, Angus S.

Glover, Howard L., Chicago, Ill. Manufacturing cork gaskets. 2,644,197, July 7.

Gniadecki, Edward S., Chicago, Ill. Fishing line drying reel. 2,644,649, July 7.

Godfrey, George Sir, & Partners (Holdings) Limited, assignee: *See*—
Jamieson, Archie W. H.

Goetz, Carlos C., assignee: *See*—
Goetz, Paul C.

Goetz, Paul C., Omaha, Nebr., assignor of one-half to C. C. Goetz, New York, N. Y. Reviving pictures and the resultant articles. 2,644,261, July 7.

Goins, Robert R.: *See*—
Robinson, Sam P., and Goins.

Golay, Charles R., Cambridge City, Ind. Scrap metal baler. 2,644,351, July 7.

Gordon, Harold L., Youngstown, assignor to E. E. Evans, Poland, Ohio. Disinfectant dispenser. 2,644,167, July 7.

Gordon, Norman A., Oklahoma City, Okla. Saltcellar. 2,644,616, July 7.

Graber Company, The, assignee: *See*—
Graber, John N.

Graber, John N., Madison, assignor to The Graber Company, Middleton, Wis. Carriage anchorage for traverse cords in drapery fixtures. 2,644,517, July 7.

Graff, Joseph, assignee: *See*—
Spalding, Clarence A.

Graham, Matthew P., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Clamp positioner. 2,644,702, July 7.

Grant, Harry C., Jr., Ridgewood, assignor to Specialties Development Corporation, Belleville, N. J. Fluid sampling apparatus. 2,644,934, July 7.





Gray, Edward J., deceased, New York, N. Y.; I. C. Gray, executrix of said E. J. Gray. Razor blade magazine. 2,644,576, July 7.

Gray, Irene C., executrix: *See*—
Gray, Edward J.

Greco, John J., Brooklyn, N. Y. Lens adjusting tool. 2,644,355, July 7.

Greenwald, Max H., assignor to The Richmond Products Company, Cleveland, Ohio. Illuminated paging device. 2,644,935, July 7.

Greenwood, Walter B.: *See*—
Duke, Harry, Greenwood, and Thomas.

Gregg, Earle C., Jr., East Cleveland, Ohio, assignor to United States of America as represented by the Secretary of the Navy. Thermocouple wattmeter. 2,644,923, July 7.

Gregor, Frank J.: *See*—
Read, Robert C., and Gregor.

Gresham, William F., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Apparatus and method for preparing melamine. 2,644,820, July 7.

Grier, William F.: *See*—
Chilcott, Adrian E., and Grier.

Griggs, Nelson S., Northfield, Vt., assignor to Specialties Development Corporation, Belleville, N. J. Carbon dioxide storage. 2,644,313, July 7.

Grimshaw, Robert S., Detroit, Mich. Vehicle wheel ornamental trim ring construction. 2,644,721, July 7.

Grisoni, Angelo, Como, Italy. Artificial foot. 2,644,165, July 7.

Grönwall, Anders J. T., and B. G.-A. Ingelman, Uppsala, assignors to Aktiebolaget Pharmacia, Stockholm, Sweden. Producing dextran products having substantially uniform molecular size for pharmaceutical and therapeutic preparations. 2,644,815, July 7.

Grossnickle, Myron D.: *See*—
Kennedy, Eugene P., and Grossnickle.

Guaschino, Louis D., Hartford, Conn. Necktie dimpler. 2,644,163, July 7.

Guillaume, André, La Plaine Saint-Denis, Seine, assignor to Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Rotary circuit breaker. 2,644,877, July 7.

Gulmond, Charles W., Grosse Pointe Woods, assignor, by mesne assignments, to The Drum Corporation, Richmond, Mich. Sash and molding painting device. 2,644,186, July 7.

Gunter, Coley W., and J. W. Howe, Jr., assignors to Wright Machinery Company, Durham, N. C. Banding machine. 2,644,628, July 7.

Günthart, Jacques: *See*—
Peter, Albin, and Günthart.

Gutman, Ernest M. and M. E., New York, N. Y. Combined safety seat for windows and table structure. 2,644,507, July 7.

Gutman, Marie E.: *See*—
Gutman, Ernest M. and M. E.

Guyer, Morris W., and O. C. Calkins, assignors to Calkins Manufacturing Company, Spokane, Wash. Slurry handling device for seed treating machines. 2,644,676, July 7.

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Bottle carrier. 2,644,624, July 7.

Gwinn, Myron B., and D. E. Hopkin, Denver, Colo. Cover for garment hangers. 2,644,622, July 7.

Haag, Franz: *See*—
Dürr, Walter H., and Haag.

Hagen, Glenn E., Lawndale, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Amplifier for pulses. 2,644,910, July 7.

Hager, Glenn F., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Catalytic hydrogenation of nitriles. 2,644,842, July 7.

Hagstrom, Gotthard, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa. Door latch mechanism. 2,644,704, July 7.

Hagstrom, Gotthard, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa. Dead latching mechanism. 2,644,705, July 7.

Haines, Victor A., Evansville, Ind., assignor to International Harvester Company. Milk cooler. 2,644,604, July 7.

Hall-Neal Furnace Company, assignee: *See*—
Dietz, Clifford H.

Hamill, Raymond L., Grass Lake, Mich. Indexing work support. 2,644,372, July 7.

Hamilton Manufacturing Company, assignee: *See*—
Brown, Clifford S.

Hammell, Kemper M., Lombard, and C. E. Erickson, Chicago, Ill., assignors to General Electric Company. Clothes drier. 2,644,245, July 7.

Hammer, Irving P., Belleville, and J. B. Rust, East Hanover, N. J., assignors of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Control of wool shrinkage by polyamides. 2,644,773, July 7.

Hammond, Jasper C., assignor to Franklin Transformer Manufacturing Company, Inc., Minneapolis, Minn. Battery tester. 2,644,739, July 7.

Hampden Brass and Aluminum Company, assignee: *See*—
Abraham, David.

Hanes Hosiery Mills Co., assignee: *See*—
Hanes, James G., Jr., and G. S. and G. E. Campbell.

Hanes, James G., Jr., Winston-Salem, N. C., G. S. and G. E. Campbell, Chattanooga, Tenn., assignors to Hanes Hosiery Mills Co., Winston-Salem, N. C. Circular knitting machine. 2,644,325, July 7.

Hannay, Clifford B., & Son, Inc., assignee: *See*—
Hannay, Dwight C.

Hannay, Dwight C., assignor to Clifford B. Hannay & Son, Inc., Westerlo, N. Y. Hose reel frame. 2,644,652, July 7.

Hansen, George, assignor to Crane Co., Chicago, Ill. Valve. 2,644,664, July 7.

Harden, Carl, assignor to Brown Citrus Machinery Corporation, Whittier, Calif. Juice separator. 2,644,393, July 7.

Harden, Milton R., Stonewall, Miss., assignor to Erwin Mills, Inc., Durham, N. C. Auxiliary cloth winding means for looms. 2,644,490, July 7.

Harding, Clarke T., Hillside, M. W. Mayer, Summit, and R. O. Wright, Cranford, N. J., assignors to Standard Oil Development Company. Combination crude distillation and cracking process. 2,644,785, July 7.

Hardway, Edward V., Jr., Richmond, Va. Electrokinetic device. 2,644,900, July 7.

Hardway, Edward V., Jr., Richmond, Va. Electrokinetic angular accelerometer. 2,644,901, July 7.

Hardway, Edward V., Jr., Richmond, Va. Electrokinetic device and electrode arrangement therefor. 2,644,902, July 7.

Harless, Charles A., Riverside, Conn., assignor to R. Hoe & Co., Inc., New York, N. Y. Rotary intaglio doctor mechanism. 2,644,394, July 7.

Harned, Ben K., and R. W. Cunningham, Pearl River, assignors to American Cyanamid Company, New York, N. Y. Aureomycin for injection. 2,644,782, July 7.

Harper, Charles S., and F. N. Moerk, Philadelphia, Pa. Apparatus for handling sludge. 2,644,790, July 7.

Harris Foundry and Machine Company, assignee: *See*—
Britt, Edwin H.

Harrod, William D., Greensboro, N. C., assignor to Union Special Machine Company, Chicago, Ill. Work guide for sewing machines. 2,644,411, July 7.

Harshaw Chemical Company, The, assignee: *See*—
Shenk, Wilbur J., Jr.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
De Beurs, Pieter H.

Hartwig, Karl T., Glen Ellyn, and C. H. Watkins, Western Springs, assignors to Universal Oil Products Company, Chicago, Ill. Reactor for high-temperature cracking. 2,644,744, July 7.

Harvengt, Edmond, Moustier-sur-Sambre, Belgium, assignor to Link-Belt Company, Chicago, Ill. Method and apparatus for treating materials of different specific gravities. 2,644,582, July 7.

Hastings, John V., III: *See*—
Schoenberg, Andrew A., and Hastings.

Hauttmann, Hubert, assignor to Vereinigte Oesterreichische Eisen-und Stahlwerke Aktiengesellschaft, Linz (Danube), Austria. Refining steel with pure oxygen. 2,644,746, July 7.

Havens, Glenn G., assignor to Narmco, Inc., San Diego, Calif. Composite structural material. 2,644,777, July 7.

Hawkins, George E., Dummerston, Vt. Road treating machine. 2,644,377, July 7.

Hawthorne, Nathaniel F., Alameda, Calif., assignor to Friden Calculating Machine Co., Inc. Carriage shifting mechanism. 2,644,639, July 7.

Haywood, Harold D., Vancouver, British Columbia, Canada. Refrigerating storage apparatus. 2,644,317, July 7.

Hazen, Gretzolon L., assignor to James Manufacturing Company, Fort Atkinson, Wis. Swine feeder. 2,644,425, July 7.

Heldner, Richard C., Hartford, and H. D. Palmer, assignors to West Bend Aluminum Co., West Bend, Wis. Control mechanism for outboard motors. 2,644,419, July 7.

Heigl, John J.: *See*—
Jonach, Fredrick L., Wilson, and Heigl.

Heinlein, John L.: *See*—
Rogers, Clifford R., Kolzing, and Heinlein.

Heizmotoren-Gesellschaft, assignee: *See*—
Dürr, Walter, Huber, and Haag.

Hekl, William B., Lynnville, assignor of one-half to L. Verwers, Pella, Iowa. Fishhook. 2,644,264, July 7.

Helgeson, Thomas O., Milwaukee, Wis. Fish holder for fishhook removal. 2,644,267, July 7.

Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Production of gases from carbonaceous solids. 2,644,745, July 7.

Hempe, Harold H., Wauwatosa, Wis. Adjustable miter box. 2,644,493, July 7.

Henthorn, Marcus D., Roachdale, Ind. Harvester reel. 2,644,288, July 7.

Hertrich, Joseph, assignor to The Western States Machine Company, Hamilton, Ohio. Group controlled electric timer. 2,644,518, July 7.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Neutron borehole logging. 2,644,891, July 7.

Hettinger, Sidney V., Jr.: *See*—
Youngren, Harold J., and Hettinger.

Hetzel, Max, F. A. Mast, and H. E. W. Thiemann, assignors to Gesellschaft zur Forderung der Forschung an der Eidg. Technischen Hochschule Zurich, Zurich, Switzerland. Schlieren cathode-ray light modulator with modulating liquid on concave mirror. 2,644,938, July 7.

Hewitt, John C., Jr., Long Beach, Calif. Well surveying instrument. 2,644,242, July 7.

Hibbs, Arthur N.: *See*—
Dodds, Robert B., Hibbs, and Napier.

Higier, Edna, assignee: *See*—
Newbower, Leo.

Higier, Julius, assignee: *See*—
Newbower, Leo.

Hill & Griffith Company, The, assignee: *See*—
King, Edward H., and Schumacher.

Hill, Laurence B., and C. Walker, assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Line locking and margin releasing mechanism for typewriting machines. 2,644,566, July 7.

Hill, Max W., Somerville, N. J., assignor to Standard Oil Development Company. Compounded lubricating oil. 2,644,792, July 7.

Hill, William H.: *See*—
Robbins, Thomas E., Jr., and Hill.

Hinkel, Lester H., and J. R. Prosek, Evansville, Ind., assignors to International Harvester Company. Breaker strip construction. 2,644,603, July 7.

Hinkel, Lester H., Evansville, Ind., assignor to International Harvester Company. Breaker strip construction. 2,644,607, July 7.

Hinson, Earl K.: *See*—
Preble, Andrew Y., and Hinson.

Hobart Manufacturing Company, The, assignee: *See*—
Fox, Gerald B., and Meeker.

Hockery, John C., trustee, assignee: *See*—
McLean, Robert E.

Hoe, R., & Co., Inc., assignee: *See*—
Harless, Charles A.

Hofer, David L., Berkeley, Calif. Control circuit for emergency relief valve of a dredge. 2,644,400, July 7.

Hoffman, Alfred E.: *See*—
Bloch, Herman S., and Hoffman.

Hoffman, Max, Miami, Fla. Awning type window. 2,644,206, July 7.

Hogan, John P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Preconditioning hydrocarbon synthesis catalyst. 2,644,829, July 7.

Hoguet, Jules, Brest, assignor to Societe E. C. T. A. (Societe d'Entreprise de Construction et de Travaux d'Art), Paris, France. Water curtain projecting device for use with sand blasting apparatus. 2,644,275, July 7.

Holland, Ernest O., assignor to Pye Limited, Cambridge, England. Electronic counting circuit. 2,644,886, July 7.

Hollihan, Mathilda R., Chester, Pa. Amusement device. 2,644,890, July 7.

Holly, Frederick W., Cranford, C. H. Shunk, Westfield, J. J. Cahill, Princeton, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. 1-glycosido-5,6 dimethyl benzimidazoles and process therefor. 2,644,817, July 7.

Hood, Eugene J., assignor to F. B. and H. E. Williams, Carthage, Mo. Spring mattress construction. 2,644,174, July 7.

Hooker Electrochemical Company, assignee: *See*—
Spence, Harry R.
Stuart, Kenneth E.

Hoover Company, The, assignee: *See*—
Brown, Ralph L., and Vance.
Tamm, Emil S.

Hopkin, Donald E.: *See*—
Gwinn, Myron B., and Hopkin

Horton, Joseph W., Ipswich, and R. A. Wagner, Worcester, Mass., assignors to the United States of America as represented by the Secretary of the Navy. Orientation mechanism. 2,644,244, July 7.

Houchin, Frank M., assignor of one-half to W. C. Lauth, Miami, Fla. Means for flushing outboard motors. 2,644,474, July 7.

Houdaille-Hershey Corporation, assignee: *See*—
Dall, Edward D.

Howe, James W., Jr.: *See*—
Gunter, Coley W., and Howe.

Hoxie, Ralph A., assignor to Continental Motors Corporation, Detroit, Mich. Air cooling for internal-combustion engines. 2,644,435, July 7.

Hoyaux, Max, Jamlouix, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium. Voltage doubler. 2,644,918, July 7.

Huber, Ludwig: *See*—
Dürr, Walter, Huber, and Haag.

Huebner, William, assignee: *See*—
Spalding, Clarence A.

Huebsch, Harold G., San Diego, Calif. Apparatus for removing frozen confections from spurs. 2,644,409, July 7.

Hullegård, Erik W.: *See*—
Ericsson, Eric A., Hullegård, and Jacobaeus.

Hulseberg, Paul J., and C. W. Roehm, Memphis, Tenn., assignors to International Harvester Company. Cotton picker mechanism housing structure. 2,644,285, July 7.

Hultgren, Rudolph C., Chicago, Ill., assignor, by mesne assignments, to B. C. Pretzer, Detroit, Mich., and R. C. Hultgren, Chicago, Ill. Safety system for luminescent tubes. 2,644,911, July 7.

Hume, Horace D., Mendota, Ill. Harvester reel. 2,644,289, July 7.

Hummel, Frederick S., assignor to Triumph Dishwashers Limited, Toronto, Ontario, Canada. Hot water tank. 2,644,432, July 7.

Humphreys, Thomas F., Joliet, Ill. Flour sifter. 2,644,581, July 7.

Hunter, William P.: *See*
Wilmer, Emory M., and Hunter.

Hydro Blast Corporation, The, assignee: *See*
Webster, Roderick S.

Illinois Tool Works, assignee: *See*
Nielsen, Moritz H.

Ingalls, Ross D., New Providence, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Cantilever type bearing. 2,644,728, July 7.

Ingelman, Björn G.: *See*—
Grönwall, Anders J. T., and Ingelman.

Ingersoll-Rand Company, assignee: *See*—
Dawson, Lewis J.

Ingram, Martell D., Wichita Falls, Tex. Rock drilling bit. 2,644,671, July 7.

International Harvester Company, assignee: *See*—
Borgerd, William F.
Haines, Victor A.
Hinkel, Lester H.
Hinkel, Lester H., and Prosek.
Hulseberg, Paul J., and Roehm.
Johnston, Edward J.
Komuchar, Victor J., and Gammle.
Palmer, John S.
Peterson, Walter R.
Voda, John J.
Voda, John J., and Wallenbrock.

Invincible Metal Furniture Company, assignee: *See*—
Castle, Karl E.

Irgens, Finn T., Wauwatosa, Wis., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Outboard motor mounting for damping torsional vibration. 2,644,420, July 7.

Irvine, Stuart, Kalamazoo, Mich. Machine for wrapping rolls of paper and the like. 2,644,282, July 7.

Jacobaeus, Anton C.: *See*
Ericsson, Eric A., Hullegård, and Jacobaeus.

Jacobs, Joseph H., assignor to Jacobs Wind Electric Company, Minneapolis, Minn. Face and eye protective shield for welders. 2,644,159, July 7.

Jacobs, Joseph H., assignor to Jacobs Wind Electric Company, Minneapolis, Minn. Welding shield with offset lenses. 2,644,160, July 7.

Jacobs Wind Electric Company, assignee: *See*—
Jacobs, Joseph H.

James, Frazier N., assignor to Lone Star Vender Corp., Dallas, Tex. Package vending machine with dual conveyers arranged for alternate delivery. 2,644,735, July 7.

James Manufacturing Company, assignee: *See*—
Hazen, Gretzolon L.

James, Thomas P., U. S. Navy, Alameda, Calif. Radio navigation trainer. 2,644,247, July 7.

James, Wallace O., Jackson, Mich. Impervious sheet with inflatable sides. 2,644,173, July 7.

Jamieson, Archie W. H., assignor of one-half to Sir George Godfrey & Partners (Holdings) Limited, Hanworth, England. System for the supply of conditioned air in aircraft. 2,644,315, July 7.

Janos, Alfred G., Erie, Pa., assignor to General Electric Company. Cooling arrangement for refrigerating apparatus. 2,644,320, July 7.

Jardine, George W., Waltham, Mass. Foot sling. 2,644,448, July 7.

Jasper, Richard N.: *See*
Simkins, Thomas R., and Jasper.

Jeffrey Manufacturing Company, The, assignee: *See*—
Mercier, Stanley M.

Jennen, Jacob J., Antwerp, and O. H. Vandenbroele, Wilrijk-Antwerp, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Supersensitized photographic silver halide emulsions. 2,644,754, July 7.

Jennings, Wendell W., San Francisco, Calif., assignor, by mesne assignments, to Morris Kenes, Stratford, Conn. Cigarette rest and extinguisher. 2,644,466, July 7.

Jenny, Walter, Reinach, near Basel, and W. Kern, Sissach, assignors to Ciba Limited, Basel, Switzerland. Acylamino alkylsulphone anthraquinone vat dyestuffs. 2,644,824, July 7.

Jensen, Harry T., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Automatic torque compensator. 2,644,534, July 7.

Jirsa, Emil F., Waterloo, assignor to Deere Manufacturing Co., Dubuque, Iowa. Operator's station structure for tractors. 2,644,538, July 7.





Johns-Manville Corporation, assignee: *See*—
Glazebrook, James R., and Wille.
Simkins, Thomas R., and Jasper.
Smolak, George, and Dyer.

Johnson, Ava J., Oakland, and A. J. Cherniavsky, assignors to Shell Development Company, San Francisco, Calif. Hydrogen chloride oxidation. 2,644,846, July 7.

Johnson, Carl G. A., Jr., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley pole. 2,644,862, July 7.

Johnson, Charles E., North Muskegon, assignor to Johnson Products, Inc., Muskegon, Mich. Self-adjusting tappet. 2,644,437, July 7.

Johnson Fare Box Company, assignee: *See*—
Schommer, Oliver J.

Johnson, Harold L., Detroit, Mich. Oil separator. 2,644,584, July 7.

Johnson, John W., Minneapolis, Minn. Gun-type flashlight holder. 2,644,936, July 7.

Johnson, Lee S., Tulsa, Okla. Gin pole and universal top assembly therefor. 2,644,666, July 7.

Johnson, Lloyd E.: *See*—
Denison, Henry W., and Johnson.

Johnson Products, Inc., assignee: *See*
Johnson, Charles E.

Johnston, Edward J., Chicago, Ill., assignor to International Harvester Company. Feeding means for blowers. 2,644,723, July 7.

Joleco Corporation, assignee: *See*
Ledbetter, George W.

Jonach, Fredrick L., Richmond Hill, N. Y., J. A. Wilson, Linden, and J. J. Heigl, Cranford, N. J., assignors to Standard Oil Development Company. Fuel cleanliness determination. 2,644,330, July 7.

Jonban, Albert M., Lafayette, La. Telephone instrument mask. 2,644,861, July 7.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Conveyer-propelled supply truck for use with shaking conveyers. 2,644,573, July 7.

Joy Manufacturing Company, assignee: *See*—
Curtis, John C., and Minnis.
Joy, Joseph F.
McCallum, Robert A.
Simmons, Leon E.

Kahlert, Ernest, Santa Ana, Calif. Roller skate. 2,644,692, July 7.

Kamplade, Heinrich, Windsheim, assignor to Maschinenfabrik Schmotzer G. m. b. H., Windsheim, Bavaria, Germany. Lifting device for the tool-carrier of agricultural machines. 2,644,339, July 7.

Kamplade, Heinrich, Windsheim, assignor to Maschinenfabrik Schmotzer G. m. b. H., Windsheim, Bavaria, Germany. Parallelogram mounted carrier for cultivator tools. 2,644,387, July 7.

Kanady, William E., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Gun for perforating casing. 2,644,519, July 7.

Karlby, Henning, Pittsburgh, Pa. Bam Jet turbine. 2,644,301, July 7.

Karp, Max S., West Los Angeles, Calif. Sliding door structure. 2,644,205, July 7.

Katz, Leonhard, Dayton, Ohio. Projectile control system. 2,644,397, July 7.

Katz, Robert, Brooklyn, N. Y. Door. 2,644,554, July 7.

Kauck, Edward A., St. Paul, Minn., and J. H. Simons, Gainesville, Fla., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Cyclic fluorocarbon ethers. 2,644,823, July 7.

Kaye, William A., Berkeley, Calif., assignor to Pabco Products Inc. Coating mineral particles. 2,644,772, July 7.

Kearney & Trecker Corporation, assignee: *See*—
Armitage, Joseph B.

Keiner, Karl: *See*—
Ravizza, Gottfried, Keiner, and Klein.

Kelcon Corporation, assignee: *See*—
Kelly, Stephen A., Jr., and Lindsay.

Kellett, Leo L., Kansas City, Mo. Brush stripper attachment for liquid containers. 2,644,183, July 7.

Kelley, Bartram, Buffalo, assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Air displacement rotor with blade stabilizing weights. 2,644,536, July 7.

Kellogg, M. W., Company, The, assignee: *See*—
Rubin, Louis C.

Kellogg, Spencer, 2nd, Glen Head, N. Y., assignor to The Sperry Corporation. Flying aid for piloted aircraft. 2,644,941, July 7.

Kelly, Stephen A., Jr., Manhasset, and W. R. Lindsay, Floral Park, assignors to Kelcon Corporation, Flushing, N. Y. Convertible seat bed with forward-turning back. 2,644,170, July 7.

Kempthorne, James L., Montclair, N. J. Coating structural surfaces. 2,644,771, July 7.

Kenes, Morris, assignee: *See*—
Jennings, Wendell W.

Kenes, Morris, Stratford, Conn. Thermostatically controlled ash tray. 2,644,468, July 7.

Kennedy, Eugene P., and M. D. Grossnickle, assignors to Armour and Company, Chicago, Ill. Preparation of pepsinogen and pepsin. 2,644,784, July 7.

Kennison, Hugh F., Verona, assignor to Lock Joint Pipe Company, East Orange, N. J. Mold and method for forming the bell of a bell-ended pipe. 2,644,218, July 7.

Ken-Tool Manufacturing Company, The, assignee: *See*—
Lydle, John E.

Kern, Walter: *See*—
Jenny, Walter, and Kern.

Keuffel & Esser Company, assignee: *See*—
Baker, Allister L.

Kidd, Robert K., Schenectady, N. Y., assignor to General Electric Company. Combustion chamber having a flat wall liner with oppositely disposed apertures. 2,644,302, July 7.

King, Edward H., Cincinnati, and J. S. Schumacher, Mariemont, assignors to The Hill & Griffith Company, Cincinnati, Ohio. Carbonaceous additive for molding sand. 2,644,741, July 7.

King, George R., Houston, Tex. Magnetically biased fluid pressure responsive valve. 2,644,477, July 7.

Kircher, Reymond J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multicontact semiconductor translating device. 2,644,914, July 7.

Klse, Mearl A., Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Preparing a fertilizer containing water-insoluble nitrogen. 2,644,806, July 7.

Kitch, Darwin J., Chicago, Ill. Aerial cargo landing container. 2,644,655, July 7.

Klein, Walter: *See*—
Ravizza, Gottfried, Keiner, and Klein.

Klein, Walter, Dutenhofen (Kreis) Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H. Microscope objective. 2,644,943, July 7.

Kleinschmidt, Edward E., Highland Park, Ill. Latch operated clutch mechanism. 2,644,560, July 7.

Kleven, Arthur E., Augusta, Maine. Making lasted shoes with flanged insoles. 2,644,179, July 7.

Klingler, Karl A., assignor to Roth Rubber Company, Chicago, Ill. One-piece check valve of molded resilient material. 2,644,663, July 7.

Klinicki, Anthony S., Detroit, Mich. Fishhook extractor. 2,644,268, July 7.

Knowlton, Dallas C., Arlington, Va. Grenade all-ways fuze. 2,644,399, July 7.

Kolzing, Henry H.: *See*—
Rogers, Clifford R., Kolzing, and Heinlein.

Komuchar, Victor J., Brookfield, and J. E. Gammle, Chicago, Ill., assignors to International Harvester Company. Wagon unloader. 2,644,594, July 7.

Kopp, Sigmund, Fredonia, assignor to American Locomotive Company, New York, N. Y. Heat exchanger. 2,644,675, July 7.

Koppers Company, Inc., assignee: *See*—
D'Alelio, Gaetano F.
Robbins, Thomas E., Jr., and Hill.

Kopperschmidt, Wilhelm, Hamburg, Germany. Spray device for liquids, thermoplastics, molten metal or the like. 2,644,717, July 7.

Koros, Leslie L., Camden, N. J., assignor to Radio Corporation of America. Semiconductor amplitude modulation system. 2,644,925, July 7.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Alkali metal and ammonium sulfates of hydroxy ethers. 2,644,831, July 7.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Alkanol amine sulfates. 2,644,832, July 7.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Alkanolamine sulfates of hydroxy ethers. 2,644,833, July 7.

Koup, Alfred L., Stratford, and A. A. Wagner, Fairfield, assignors to United Aircraft Corporation, East Hartford, Conn. Fluid coupling clutch. 2,644,535, July 7.

Krag, Franz, K., Chicago, Ill. Tape guide, and presser for tape recorders, and the like. 2,644,690, July 7.

Kraus, Charles A.: *See*—
Calfee, John D., and Kraus.

Krewson, Josephine E., Muskegon, Mich. Holder and operator for hypodermic syringes. 2,644,450, July 7.

Kronstad, Haavard, near Mahoningtown, Pa. Feeder for fluid current conveyers. 2,644,724, July 7.

Kruse, Harry J., St. Louis, and H. C. Mounce, Ferguson, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Crystalline ferric ammonium citrate compounds. 2,644,828, July 7.

Kuenning, Robert W.: *See*—
Alexanderson, Ernst F. W., and Kuenning.

Kumpf, George A., Eriton, N. J., assignor to Radio Corporation of America. Shorting plug and wrench. 2,644,929, July 7.

Kuzmitz, Frank V.: *See*—
Waterman, Herbert C., and Kuzmitz.

Kyte, George H.: *See*—
Sedgfield, Hugh B., Summerlin, and Kyte.

Labbe, Roy J., Baltimore, Md. Coin dispensing machine. 2,644,470, July 7.

Lacy, John P., Pittsburgh, Pa. Winow wiper. 2,644,187, July 7.

Ladd, Elbert C., Passaic, and H. Sargent, Wood-Ridge, N. J., assignors to United States Rubber Company, New York, N. Y. Coupled products. 2,644,835, July 7.

La Flame, Frank E.: *See*—
Warrick, Leland K., and La Flame.

Laing, Gordon F., Delavan, Wis., assignor to Economy Fuse and Manufacturing Co., Chicago, Ill. Renewable fuse. 2,644,872, July 7.

Lakewood Manufacturing & Engineering Co., assignee: *See*—
Parker, Frank H.

Lampert, Albert J., Walnut, and E. A. Merritt, South Gate, assignors to Rheem Manufacturing Company, Richmond, Calif. Gas burner head with secondary air feed grooves. 2,644,515, July 7.

Lancaster, Edgar E., Cleveland, Ohio. Smoking pipe. 2,644,464, July 7.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic process for forming a positive transfer image. 2,644,756, July 7.

Lang, Walter B., Washington, D. C. Oil filling and breather pipe means for internal-combustion engines. 2,644,430, July 7.

Lanth, William C., assignee: *See*—
Houchin, Frank M.

Laville, André: *See*—
Maillard, Francis, Laville and Cantinleau.

Lawson, Bert E., Lakewood, and W. E. Bullock, Chautauqua, N. Y., assignors to Sylvania Electric Products Inc. Material handling device for punch presses. 2,644,521, July 7.

Lazarus, Hettye S., and P. L., New York, N. Y. Plunger with wiping fingers. 2,644,181, July 7.

Lazarus, Peter L.: *See*—
Lazarus, Hettye S., and P. L.

Leavitt, James Q., Company, assignee: *See*—
Velle, Orville D.

Ledbetter, George W., assignor to Joleco Corporation, St. Louis, Mo. Lighting fixture hinge construction. 2,644,556, July 7.

Lee, Francis H., San Pedro, assignor to Baker Oil Tools, Inc., Vernon, Calif. Well cementing apparatus. 2,644,525, July 7.

Lee, Francis H., San Pedro, assignor to Baker Oil Tools, Inc., Vernon, Calif. Casing collar for cementing wells. 2,644,526, July 7.

Lee, Henry Y., Honolulu, Hawaii. Spout cap for lighter fuel containers. 2,644,608, July 7.

Leeds and Northrup Company, assignee: *See*—
Ross, Raymund W.

Le Grand, Jesse S.: *See*—
Dishal, Milton, and Le Grand.

Lehman, Irvin H., Kentland, Ind. Self-sealing rotor for fluid transferring devices. 2,644,402, July 7.

Lehrer, Norman H., Bloomfield, assignor to Chatham Electronics Corporation, Newark, N. J. Self-starting electrostatic generator. 2,644,903, July 7.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Klein, Walter.
Ravizza, Gottfried, Kelner, and Klein.

l'Electronique Moderne S. A. R. L., assignee: *See*—
Pierre, Emile A.

Lemanski, Bernard, Bad Axe, Mich. Adjustable conveyer for harvester pickups. 2,644,291, July 7.

Levan, Walter W., Fleetwood, Pa. Crane arm for trucks. 2,644,595, July 7.

Levine, Bessie S., assignee: *See*—
Levine, Jacob L.

Levine, Betty, New York, N. Y. Garment bag. 2,644,589, July 7.

Levine, Jacob L., assignor to B. S. Levine, New York, N. Y. Composition for reconditioning used typewriter ribbons. 2,644,766, July 7.

Levine, Joseph, Irvington, N. J. Roller supporting cage for roller bearings. 2,644,730, July 7.

Lewis, Orrin E., Belleville, Kans. Dolly for handling single and dual truck wheels. 644,597, July 7.

Lewkowski, Walter J., Jr., Calumet City, Ill. Magnetic testing apparatus. 2,644,921, July 7.

Leyes, Charles E.: *See*—
Bennes, William J., and Leyes.

Lindell, Sigurd L., assignor to S & C Electric Company, Chicago, Ill. Switch construction. 2,644,878, July 7.

Lindsay, William R.: *See*—
Kelly, Stephen A., Jr., and Lindsay.

Link-Belt Company, assignee: *See*—
Harvengt, Edmond.
McCormick, Hubert J.
Musschoot, Albert, Bergmann, and Young.

Livermon, Carl R., Roxobel, N. C. Amphibious boat trailer. 2,644,176, July 7.

Lo, Arthur W., and R. P. Moore, Jr., Haddonfield, N. J., assignors to Radio Corporation of America. Monostable transistor circuits. 2,644,894, July 7.

Lo, Arthur W., Haddonfield, N. J., assignor to Radio Corporation of America. Monostable transistor triggered circuits. 2,644,895, July 7.

Lo, Arthur W., Haddonfield, N. J., assignor to Radio Corporation of America. Transistor bistable circuit. 2,644,896, July 7.

Lo, Arthur W., Haddonfield, N. J., assignor to Radio Corporation of America. Transistor ring counter. 2,644,897, July 7.

Locey, Harry A., assignor to L. H. Allison, Houston, Tex. Safety switch. 2,644,868, July 7.

Lock Joint Pipe Company, assignee: *See*—
Kennison, Hugh F.

Loecy, Joseph, Jr., Euclid, Ohio. Diamond tool assembly. 2,644,442, July 7.

Logan, Henry H., Chicago, Ill. Adjustable bench stop. 2,644,499, July 7.

Lone Star Vender Corp., assignee: *See*—
James, Frazier N.

Lontz, John F., Nutley, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Tetrafluoroethylene polymer compositions containing polyorganosiloxane lubricants. 2,644,802, July 7.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Nelson, Harry.

Lorenz, Anton, Buffalo, N. Y., and H. Nock, Elizabeth, N. J. Combined sofa seat and bed. 2,644,171, July 7.

Loring, Samuel J., Strafford, Conn. Vibration mode analyzer. 2,644,331, July 7.

Lott, William A., Maplewood, W. Braker, Newark, and A. E. O'Keeffe, Woodbridge, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md. Purification of antibiotics with water insoluble carboxylic acids. 2,644,816, July 7.

Lowe, Clarence A., Columbus, Ohio. Paving machine. 2,644,379, July 7.

Lubrs, Charles H., Teaneck, N. J., and W. J. Tull, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated. Microwave polarization rotating device and coupling network. 2,644,930, July 7.

Luisada, August G., assignor to Advance Pattern Co., Inc., New York, N. Y. Device for collating tissue paper garment patterns from stacks. 2,644,687, July 7.

Lülling, Adalbert: *See*—
Lülling, Alfred and Adalbert.

Lülling, Alfred and Adalbert, assignors to F. W. Lülling G. m. b. H., Volmarstein an der Ruhr, Germany. Hasp. 2,644,710, July 7.

Lülling, F. W., G. m. b. H., assignee: *See*—
Lülling, Alfred and Adalbert.

Lumenite Electronic Company, assignee: *See*—
Calabrese, George V.

Lundberg, Axel E., Sundsvall, Sweden. Smoothing saw blade. 2,644,494, July 7.

Lydle, John E., assignor to The Ken-Tool Manufacturing Company, Akron, Ohio. Socket wrench having swiveled grip sleeve. 2,644,359, July 7.

Lyttle, Douglas A.: *See*—
Welsblat, David I., and Lyttle.

M and M Wood Working Company, assignee: *See*—
Bennett, Elbert V., and Renn.

MacDonald, Angus S., near Rapidan, Va., assignor to The Globe-Wernicke Co. Metal plank. 2,644,552, July 7.

MacDonald, Robert N.: *See*—
Brubaker, Merlin M., and MacDonald.

Macnee, Alan B.: *See*—
Gadsden, Christopher P., Macnee, and Wallman.

Magic Hanger, Inc., assignee: *See*—
Urban, Frank J.

Maillard, Bernard, assignor to the Society Brevets Aero-Mechaniques, S. A., Geneva, Switzerland. Feed mechanism for automatic firearms cartridge belt feed type. 2,644,365, July 7.

Maillard, Francis, Issy-les-Moulineaux, A. Laville, Fontenay-aux-Roses, and J. Cantinleau, assignors to Societe Nationale de Constructions Aeronautiques des Sud-Ouest (Societe Anonyme), Paris, France. Means for steering aircraft with rotary wings. 2,644,533, July 7.

Maisey, Albert J.: *See*—
Ebel, Francis L., and Maisey.

Majik-Ironers, Inc., assignee: *See*—
Foster, Edwin E.

Malecki, William J., New York, N. Y. Automatically adjustable C clamp. 2,644,498, July 7.

Mallinckrodt Chemical Works, assignee: *See*—
Kruse, Harry J., and Mounce.

Malloy, Paul J., assignor of one-half to P. V. Malloy, Lakewood, Ohio. Self-propelled mine roof prop. 2,644,311, July 7.

Malloy, Paul V., assignee: *See*—
Malloy, Paul J.

Manning, Fred W., Palo Alto, Calif. Continuous molding of brassières and other three-dimensional articles. 2,644,779, July 7.

Mansen, Harry, Barrington, assignor to Elgin Softener Corporation, Elgin, Ill. Multiport valve. 2,644,484, July 7.

Markowitz, Albert A., Bronx, N. Y. Magnetic holder for pencils. 2,644,212, July 7.

Marong, Michael P., Warsaw, N. Y. Ball and runway toy. 2,644,270, July 7.

Marsh, Allan O., Los Angeles, Calif. Loose-leaf binder. 2,644,456, July 7.

Martin, Robert W., Lenox, Mass., assignor to General Electric Company. Boric acid-methyl polysiloxane composition. 2,644,805, July 7.

Maschinenfabrik Schmotzer G. m. b. H., assignee: *See*—
Kamphade, Heinrich.

Mason, Russell I.: *See*—
Breeze, George E., and Mason.

Mast, Fred A.: *See*—
Hetzel, Max, Mast, and Thiemann.

Mater, Bernardus E., Santa Monica, assignor to Baker Oil Tools, Inc., Vernon, Calif. Apparatus and method for conditioning oil and gas wells. 2,644,532, July 7.

Mathews, Ted C., Fairbanks, Alaska. Diamond bit protector. 2,644,672, July 7.

Mathieson Chemical Corporation, assignee: *See*—
Lott, William A., Braker, and O'Keeffe.

Max, Nicolaas, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Production of nitriles. 2,644,834, July 7.





Maxim Silencer Company, The, assignee: *See*—
Bourne, Roland B.

Mayer, Maurice W.: *See*—
Harding, Clarke T., Mayer, and Wright.

Mays, Forney D., assignee: *See*—
Friday, James D., and Stillwell.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McKee, Earl T., assignor to Purdue Research Foundation, West Lafayette, Ind. Halogenation of fluorocarbons. 2,644,845, July 7.

McCabe, Ira E., Chicago, Ill. Electric switch of the mercury type. 2,644,870, July 7.

McCallum, Robert A., Michigan City, Ind., assignor to Joy Manufacturing Company. Fluid flow regulator. 2,644,482, July 7.

McClellan, Ralph E., assignor to Mellink Steel Safe Company, Toledo, Ohio. Detachable hinge. 2,644,192, July 7.

McConnell, Frank J., assignor to The American Hardware Corporation, New Britain, Conn. Latch. 2,644,706, July 7.

McCormack, John C., Pensacola, Fla., and J. L. White, Montgomery, Ala., assignors to Four-Way Awning Company, Pensacola, Fla. Metal awning or like structure. 2,644,207, July 7.

McCormick, Hubert J., Chicago, Ill., assignor to Link-Belt Company. Quick release overhead trolley conveyer hook. 2,644,107, July 7.

McGirr, John P., assignor to T. G. McGirr, Brooklyn, N. Y. Metallized plastic foil. 2,644,761, July 7.

McGirr, Theodore G., assignee: *See*—
McGirr, John P.

McLaughlin, Joseph E., Pottsville, assignor to Aluminum Company of America, Pittsburgh, Pa. Cable sheathing. 2,644,353, July 7.

McLean, Paul L., Levelland, assignor of 15 per cent to M. L. Morgan, Hockley County, Tex. Flowing unit for oil well controllers. 2,644,531, July 7.

McLean, Robert E., Columbus, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Rotary drive wheel type can opener. 2,644,228, July 7.

McLeod, Roderick C., Cropston, Leicester, England, and K. Watson, Clarkston, Scotland, assignors to Power Jets (Research & Development) Limited, London, England. Propulsive thrust augmenter. 2,644,298, July 7.

McMahan, Roy F., near Louisville, Ky. Shelving and partition support. 2,644,591, July 7.

McNamee, Robert W., Westbury, N. Y. Clothespin device. 2,644,210, July 7.

McVicker, James C., Ligonier, Pa. Deflector plate. 2,644,716, July 7.

Meagher, Thomas F., West Newton, Mass. Card sorting machine. 2,644,458, July 7.

Meditz, Ludwig, New York, N. Y. Invertoscope for photographic cameras. 2,644,383, July 7.

Meeker, David A.: *See*—
Fox, Gerald B., and Meeker.

Mellink Steel Safe Company, assignee: *See*—
McClellan, Ralph E.

Mendelsohn, Samuel, Glen Ridge, N. J. Adjustable support for cameras and synchronizers. 2,644,380, July 7.

Mendelsohn, Samuel, Glen Ridge, N. J. Support and handle for cameras and synchronizers. 2,644,381, July 7.

Merboth, Warren J.: *See*—
Cove, Winthrop K., and Merboth.

Mercier, Pierre Ernest, assignor of one-half to G. H. Corey, New York, N. Y. Landing gear for aircraft. 2,644,654, July 7.

Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Cover means for belt conveyers. 2,644,572, July 7.

Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Flexible cover for belt conveyers. 2,644,574, July 7.

Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Multirubber tired adjustably spaced conveyer return idler assembly. 2,644,575, July 7.

Merck & Co., Inc., assignee: *See*—
Crossley, Frank S.
Holly, Frederick W., Shunk, Cahill, and Folkers.

Merrifield, John C. F., executor: *See*—
Davis, Harry R.

Merritt, Eldon A.: *See*—
Lampert, Albert J., and Merritt.

Meyer, Fred J., San Francisco, Calif. Fireplace screen support. 2,644,191, July 7.

Meyer, Leslie A., Mill Creek, Ind. Welder's helmet. 2,644,161, July 7.

Meyers, Donald N., Philadelphia, assignor, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa. Spar type rotor blade. 2,644,537, July 7.

Michle Printing Press and Manufacturing Company, assignee: *See*—
Peyrebrune, Henri E., Pasquinelli, and Sites.

Miller, Archie R., Easton, assignor, by mesne assignments, to Roller-Smith Corporation, Bethlehem, Pa. Air circuit breaker. 2,644,875, July 7.

Miller, Donald L., Horsehends, N. Y., assignor to Bendix Aviation Corporation. Engine starter gearing. 2,644,338, July 7.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Multiple spindle planetary gear generating machine. 2,644,308, July 7.

Miller, Henry E., Columbus, Ohio. Material lifting and transferring apparatus. 2,644,593, July 7.

Miller, Jack M., Carrollton, Va. Peanut vine stacking pole. 2,644,460, July 7.

Miller, John E., Maywood, Ill., assignor to Certain-teed Products Corporation, Ardmore, Pa. Method of and means for producing simulated-brick siding boards. 2,644,768, July 7.

Miller, John W., and A. J. Barrie, Toledo, Ohio, assignors to Oldberg Manufacturing Company, Grand Haven, Mich. Apparatus for forming tubes. 2,644,416, July 7.

Miller, Joseph R., Mesquite, Tex. Guide for flush tank valves. 2,644,166, July 7.

Miller, Lester C., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Lining bearings with molded bushings. 2,644,199, July 7.

Miller Motor Company, assignee: *See*—
Flick, Francis S.

Miller, Nicholas, Berwyn, Ill., assignor to General Electric Company. High-temperature bimetal thermostat. 2,644,874, July 7.

Miller, William E., Los Angeles, Calif. Collapsible sawhorse. 2,644,726, July 7.

Millman, Clinton, Greenville, Mich. Device for maintaining different temperatures in refrigerators. 2,644,319, July 7.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Kauck, Edward A., and Simons.

Minnis, Harold F.: *See*—
Curtis, John C., and Minnis.

Mintz, Victor W., Maplewood, N. J., assignor to Precious Metals Research Works, Inc., New York, N. Y. Dental paralleling instrument. 2,644,235, July 7.

Miskovsky, Anton: *See*—
Zimic, Michael, and Miskovsky.

Mitts, Hernon L., Washington, D. C. Support for storm windows. 2,644,659, July 7.

Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Gas turbine fuel feed and power control device responsive to speed and air density. 2,644,513, July 7.

Moerk, Frank N.: *See*—
Harper, Charles S., and Moerk.

Mojonnier Bros. Co. Inc., assignee: *See*—
Cross, Joseph A.

Monsanto Chemical Company, assignee: *See*—
Dazzi, Joachim.
Fields, Joseph E.
Kosmin, Milton.

Monsanto Chemicals Limited, assignee: *See*—
Morgan, William M.
Roebuck, David S. P.

Montclair Research Corporation, assignee: *See*—
Hammer, Irving P., and Rust.

Montgomery Ward & Co., Incorporated, assignee: *See*—
Frisk, Walter E.

Moore, Raymond P., Jr.: *See*—
Lo, Arthur W., and Moore.

Moore, Wayne B., San Diego, Calif. Electrically controlled follow-up system. 2,644,426, July 7.

Morgan, M. L., assignee: *See*—
McLean, Paul L.

Morgan, William McG., Amersham, assignor to Monsanto Chemicals Limited, London, England. Treatment of rubber. 2,644,850, July 7.

Morhard, Josef K., Heroldsberg, near Nurnberg, assignor to Vereinigte Papierwerke Schlickedanz & Co., Nurnberg, Germany. Sanitary towel or lady's band. 2,644,454, July 7.

Morton, Rose H., New York, N. Y. Umbrella tip. 2,644,475, July 7.

Mottern, Henry O., Bloomfield, and W. N. Philo, Cranford, N. J., assignors to Standard Oil Development Company. Shaped catalyst for packed catalytic reactor. 2,644,800, July 7.

Mounce, Henry C.: *See*—
Kruse, Harry J., and Mounce.

Muros, Joseph, Newtonville, assignor to The Gillette Company, Boston, Mass. Quick-opening razor. 2,644,220, July 7.

Musschoot, Albert, Park Ridge, R. F. Bergmann, Wilmetka, and C. M. Young, Jr., Chicago, Ill., assignors to Link-Belt Company. Drive arm assembly. 2,644,344, July 7.

Napier, James D.: *See*—
Dodds, Robert B., Hibbs, and Napier.

Narmco, Inc., assignee: *See*—
Havens, Glenn G.

Nash-Kelvinator Corporation, assignee: *See*—
Doeg, Ralph W.

Nass, Walter R., Nots China Lake, Calif., assignor to the United States of America as represented by the Secretary of the Army. Cartridge case containing propelling rocket igniting charge and rocket projectile. 2,644,364, July 7.

National Broach & Machine Company, assignee: *See*—
Bassoff, Arthur.
Praeg, Walter S.

National Cash Register Company, The, assignee: *See*—
Christian, Raymond A., and Ganger.

National Malleable and Steel Castings Company, assignee: *See*—
Spence, Hubert L., and Willison.
National Smelting Company Limited, The, assignee: *See*—
Woods, Stephen E., and Perry.
Navy, United States of America as represented by the Secretary of the, assignee: *See*
Birdsall, Edwin H.
Breeze, George E., and Mason.
Gadsden, Christopher P., Maemer, and Wallman.
Gregg, Earle C., Jr.
Horton, Joseph W., and Wagner.
Redfield, Alfred C.
Sutherland, Edwin M., and Albrecht.
Neher, Clarence M., F. L. Padgitt, and P. E. Weimer, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y. Manufacture of tetraethyllead. 2,644,827, July 7.
Nelson, George T., Lebanon, Tenn. Grooving and flexible form installing attachment for road paving machines. 2,644,378, July 7.
Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Length cutting machine. 2,644,520, July 7.
Newbold, Park L., Cedar Rapids, Iowa. Cigarette recaser with elevator unit and pusher mechanism. 2,644,627, July 7.
Newhower, Lee, Gloversville, assignors to E. and J. Higier, doing business as The Super Glove Company, Johnstown, N. Y. Glove construction. 2,644,164, July 7.
Nielsen, Moritz H., assignor to Illinois Tool Works, Chicago, Ill. Means for and methods of producing preassembled nuts and washers. 2,644,178, July 7.
Nisbet, John L., San Angelo, Tex. Cotton picking machine. 2,644,286, July 7.
Nixdorff, Samuel P.: *See*
Alexanderson, Ernst F. W., and Nixdorff.
Nock, Harry: *See*
Lorenz, Anton, and Nock.
Norfolk Paper Company, Inc., assignee: *See*
Claff, Clarence L.
North American Aviation, Inc., assignee: *See*
Sanz, Manuel C., and Castelfranco.
Tauscher, Vernon A., Slater, and Emmi.
North, Thomas C., assignor to Universal Manufacturing Corp., Zelienople, Pa. Elevator tower assembled from prefabricated panels. 2,644,545, July 7.
Northrop Aircraft, Inc., assignee: *See*
Hagen, Glenn E.
Vogel, Alvin R.
Norton, Lowell E., Princeton Junction, N. J., assignor to Radio Corporation of America. Directional transmission line transducer. 2,644,928, July 7.
Norton, Orrie W., executor: *See*
Velie, Orville D.
Oberholtz, Lester, E., and G. Allen, assignors to Gleaner Harvester Corporation, Independence, Mo. Self propelled combine. 2,644,281, July 7.
Oberholtz, Lester E., assignor to Gleaner Harvester Corporation, Independence, Mo. Detachably mounted counterbalanced windrower. 2,644,287, July 7.
Oberholtz, Lester E., and G. Allen, assignors to Gleaner Harvester Corporation, Independence, Mo. Feeding cylinder. 2,644,292, July 7.
Oehler, William P., assignor to Deere & Company, Moline, Ill. Bearing construction for disk harrows. 2,644,388, July 7.
Oehler, William P., assignor to Deere & Company, Moline, Ill. Fertilizer distributor. 2,644,618, July 7.
Oertli, Traugott: *See*
Valentini, Aldo, and Oertli.
Officine Viberti Societa per Azioni, assignee: *See*
Chiapella, Guiseppe.
Ohanian, Oscar J., Philadelphia, Pa. Reinforced luggage construction. 2,644,558, July 7.
Ohio Brass Company, The, assignee: *See*
Johnson, Carl G. A., Jr.
O'Keeffe, Andrew E.: *See*
Lott, William A., Braker, and O'Keeffe.
Oldberg Manufacturing Company, assignee: *See*
Miller, John W., and Barrie.
Oliver Corporation, The, assignee: *See*
Rogers, Clifford R., Kolzing, and Heinlein.
Oneida, Ltd., assignee: *See*
Rossegger, Lloyd E.
O'Neil, Joseph R., Jr., assignor to The Carborundum Company, Niagara Falls, N. Y. Sanding disk accessory. 2,644,280, July 7.
Orenick, Emil H., Cleveland, Ohio. Cosmetic holder. 2,644,577, July 7.
Ormesher, James E., Valentine, Nebr. Live bait container. 2,644,269, July 7.
Osborn, Leonard C., Salt Lake City, Utah. Safety wrench for tubes and pipes. 2,644,358, July 7.
Outboard, Marine & Manufacturing Company, assignee: *See*
Irgens, Finn T.
Watkins, Lucius D.
Pabco Products Inc., assignee: *See*
Kaye, William A.
Pachmayr, Frank A., Culver City, Calif. Eccentric mount for telescopic gun sights. 2,644,237, July 7.
Pacillo, Joseph C., Cicero, assignor to White Cap Company, Chicago, Ill. Pneumatic container cleaning apparatus. 2,644,188, July 7.
Packwood, George H., Jr., St. Louis, Mo. Soap dispenser. 2,644,615, July 7.
Padgitt, Frank L.: *See*—
Neher, Clarence M., Padgitt, and Weimer.
Pallos, John L., Gary, Ind. Cuff rule. 2,644,236, July 7.
Palmer, Herman D.: *See*—
Heidner, Richard C., and Palmer.
Palmer, John S., Evansville, Ind., assignor to International Harvester Company. Breaker strip construction. 2,644,605, July 7.
Palmer, Ralph F., Montclair, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stand for dress forms and the like. 2,644,620, July 7.
Parker, Frank H., Cleveland Heights, assignor of one half to S. C. Peplin, doing business as Lakewood Manufacturing & Engineering Co., Westlake, Ohio. Hot and cold water mixing valve. 2,644,183, July 7.
Parker Rust Proof Company, assignee: *See*
Baxter, John E.
Parker, Samuel P., and R. L. Thompson, assignors to Callaway Mills Company, La Grange, Ga. Bias cutting machine. 2,644,522, July 7.
Parke, Wallace H., Wells, Minn., assignor to C. H. Geppert, Des Moines, Iowa. Traction means for pneumatic tired wheels. 2,644,563, July 7.
Pasquinelli, Bruno B.: *See*
Peyrebrune, Henri E., Pasquinelli, and Sites.
Paulsen, Paul L., Bridgeport, Conn., assignor to General Electric Company. Hydraulic power unit for operating of press elements. 2,644,306, July 7.
Paxton, Gerald C., assignor to General Nailing Machine Corporation, Sanger, Calif. Cull checking system for multiple station grading or packing stands. 2,644,579, July 7.
Pearl, Irwin A., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. 2,3-bis-(oxybenzyl)-butane derivatives. 2,644,822, July 7.
Pearl, Irwin A., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. Vanillimino ethyl ether and its salts of anhydrous acids. 2,644,830, July 7.
Pease, Charles H., Canaan, Conn. Queen and drone trap. 2,644,175, July 7.
Pennsylvania Crusher Company, assignee: *See*—
West, Woodrow W.
Pepin, Joseph, Chicago, Ill., assignor to F. Seech, Los Angeles, Calif. Compressible means for collapsible tubes. 2,644,613, July 7.
Peplin, Stephen C., assignee: *See*
Parker, Frank H.
Perlman, David, New Orleans, La. Automatic fluid transfer valve. 2,644,181, July 7.
Perry, Bennett G.: *See*—
Woods, Stephen E., and Perry.
Perry, Elwood L., Hickory, N. C. Football training apparatus. 2,644,334, July 7.
Perry Flasher Syndicate, assignee: *See*
Perry, Robert S.
Perry, Price W., Encino, Calif. Cutting element for compositing machines or hay comminuting machines. 2,644,501, July 7.
Perry, Robert S., assignor, by mesne assignments, to Perry Flasher Syndicate, Westfield, N. J. Flasher. 2,644,899, July 7.
Peter, Albin, and J. Gilnthart, assignors to Sandoz A. G., Basel, Switzerland. Anthrapyridone dyestuffs. 2,644,821, July 7.
Peterson, Adolphe C., Minneapolis, Minn. Compound combustion engine. 2,644,295, July 7.
Peterson, Robert H., Camden, and H. S. Broadwell, Collingswood, N. J., assignors to Radio Corporation of America. Multichannel telemetering apparatus. 2,644,933, July 7.
Peterson, Walter R., Hinsdale, Ill., assignor to International Harvester Company. Reversible castering wheel structure. 2,644,697, July 7.
Petter, Noel A., assignor to Standard Paper Box Corp., Los Angeles, Calif. Disposable bottle container. 2,644,631, July 7.
Pettus, James L., Encino, Calif., assignor to Radio Corporation of America. Film sprocket clutch. 2,644,562, July 7.
Pettus, James L., Encino, Calif., assignor to Radio Corporation of America. Multiple head mounting structure. 2,644,856, July 7.
Peyrebrune, Henri E., River Forest, B. B. Pasquinelli, Chicago, and B. L. Sites, Elmhurst, assignors to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Reciprocating doctor blade mechanism. 2,644,395, July 7.
Pfanstiel, Robert: *See*—
Averill, Harold P., and Pfanstiel.
Pfarrwaller, Erwin, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Shedding mechanism for looms. 2,644,488, July 7.
Philco Corporation, assignee: *See*—
Bradley, William E.



Phillips Petroleum Company, assignee: *See*—
Bobo, Roy A.
Hogan, John P.
Robinson, Sam P.
Robinson, Sam P., and Goins.
Philo, Wesley N.: *See*—
Mottern, Henry O., and Philo.
Piasecki Helicopter Corporation, assignee: *See*—
Meyers, Donald N.
Pierce, John R., Foundation, assignee: *See*—
Vroom, Kenneth E., and Tidd.
Pierre, Emile A., Paris, assignor to l'Electronique Moderne S. A. R. L., Valenciennes, France. Recording and reproducing sound. 2,644,857, July 7.
Piling Limited, assignee: *See*—
Doull, Robert M., and Radonich.
Plywood Research Foundation, assignee: *See*—
Schubert, Dale L.
Pohle, Herman R., New York, N. Y. Roller device for moving loads. 2,644,691, July 7.
Polaroid Corporation, assignee: *See*—
Land, Edwin H.
Wolff, Otto E., and Fairbank.
Pollack, Hyman, Bronx County, and D. Brand, Kings County, N. Y. Convertible article of furniture. 2,644,506, July 7.
Polytechnic Research and Development Company Incorporated, assignee: *See*—
Finke, Herbert A., and Sonnenschein.
Poole, George R., Knighton, Leicester, England. Fastening for gates, doors, and the like. 2,644,708, July 7.
Porter, Carter E.: *See*—
Carlson, Carl S., Biribauer, and Porter.
Potter, George H., assignor of forty-nine per cent to R. D. Wrightam, Pontiac, Ill. Auxiliary fuel supply tank. 2,644,514, July 7.
Power Jets (Research & Development), Limited, assignee: *See*—
McLeod, Roderick C., and Watson.
Powers, Milton A., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Low rate oil flow valve. 2,644,662, July 7.
Praeg, Walter S., Detroit, Mich., assignor, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt. Cutting tool for gear shaping. 2,644,223, July 7.
Praeg, Walter S., Detroit, Mich., assignor, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt. Shaper cutting gears. 2,644,367, July 7.
Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Broaching machine. 2,644,369, July 7.
Preble, Andrew Y., and E. K. Hinson, El Centro, Calif. Atmospheric condenser apparatus. 2,644,322, July 7.
Precious Metals Research Works, Inc., assignee: *See*—
Mintz, Victor W.
Pretzer, Bert C., assignee: *See*—
Hultgren, Rudolph C.
Price, Earl R., and T. H. Thomas, assignors to Bendix Aviation Corporation, South Bend, Ind. Booster unit for hydraulic pressure systems. 2,644,305, July 7.
Prosek, John R.: *See*
Hinkel, Lester H., and Prosek.
Purdue Research Foundation, assignee: *See*—
McRee, Earl T.
Putnam, Harold R., Iowa City, Iowa. Adjustable golf club. 2,644,689, July 7.
Pye Limited, assignee: *See*
Holland, Ernest O.
Quick-Way Truck Shovel Co., assignee: *See*—
Smith, Lake E.
Rabe, Karl, Stuttgart, assignor, by mesne assignments, to Dr. Ing. h. c. F. Porsche K. G., Stuttgart-Zuffenhausen, Germany. Steering mechanism for motor vehicles and the like. 2,644,341, July 7.
Rabinow, Jacob, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Army. Constant torque clutch. 2,644,398, July 7.
Radio Corporation of America, assignee: *See*—
Atwood, John B.
Barton, Loy E.
Bedford, Alda V.
Gehman, John B.
Koros, Leslie J.
Kumpf, George A.
Lo, Arthur W.
Lo, Arthur W., and Moore.
Norton, Lowell E.
Peterson, Robert H., and Broadwell.
Pettus, James L.
Sadowsky, Meier.
Smith, John P.
Szikiai, George C.
Radonich, Marko: *See*—
Doull, Robert M., and Radonich.
Ragan, Thomas M., Downey, assignor to Baker Oil Tools, Inc., Vernon, Calif. Booster device for operating well tools. 2,644,528, July 7.
Ragland, Douglas, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Apparatus for pumping drilling fluids. 2,644,401, July 7.
Randol, Glenn T., Detroit, Mich. Automotive variable-ratio power transmission. 2,644,559, July 7.
Ravizza, Gottfried, Wetzlar, K. Kelner, Berghausen, and W. Klein, Dutenhofen, Germany, assignors to E. Leitz, G. m. b. H., Microscope objective. 2,644,362, July 7.
Raymond, Joseph H., Chicago, Ill. Paper tube winding apparatus. 2,644,376, July 7.
Raytheon Manufacturing Company, assignee: *See*—
Frykiund, Robert A.
Read, Robert C., Weston, and F. J. Gregor, Wilton, Conn. Sofa bed. 2,644,169, July 7.
Reagan, Maurice E.: *See*
Derr, Willard A., and Reagan.
Redfield, Alfred C., Woods Hole, Mass., assignor to the United States of America as represented by the Secretary of the Navy. Density meter. 2,644,329, July 7.
Reed, Daniel E., Norwalk, Conn., assignor to Supersite Corporation, New York, N. Y. Rearview mirror apparatus. 2,644,658, July 7.
Regimbald, Daniel A., Detroit, Mich. Drill bushing. 2,644,350, July 7.
Remington Rand Inc., assignee: *See*
Foley, James F., and Gleason.
Renn, Harrell: *See*—
Bennett, Elbert V., and Renn.
Republic Flow Meters Company, assignee: *See*—
Smoot, Charles H.
Research Corporation, assignee: *See*—
Soffer, Milton D.
Ressa, Irma J.: *See*—
Craig, Louis E., and Ressa.
Rossegger, Lloyd E., assignor to Oneida, Ltd., Oneida, N. Y. Cold coining. 2,644,352, July 7.
Reynolds, Harry L.: *See*—
Rohrscheib, George F., and Reynolds.
Reynolds, Merl T., Ballston Lake, N. Y., assignor to General Electric Company. Frequency modulation system. 2,644,924, July 7.
Rheem Manufacturing Company, assignee: *See*—
Lampert, Albert J., and Merritt.
Richard, Joseph O., Lake Worth, Fla. Sprinkling apparatus. 2,644,718, July 7.
Richards, Dale L.: *See*—
Berninger, Ernest L., and Richards.
Richmond Products Company, The, assignee: *See*—
Greenwald, Max H.
Ritter, Lawrence: *See*—
Weldenheimer, Joseph F., and Ritter.
Robbins, Thomas E., Jr., Nutley, N. J., and W. H. Hill, assignors to Koppers Company, Inc., Pittsburgh, Pa. Mineral flotation. 2,644,580, July 7.
Roberge, Philip F., Wethersfield, Conn. Exerciser and leg rest. 2,644,688, July 7.
Roberts, John T., Baton Rouge, La., assignor to Standard Oil Development Company. Storage tank facility. 2,644,612, July 7.
Robertshaw-Fulton Controls Company, assignee: *See*—
Eskin, Samuel G., and Arkelyan.
Robinson Furniture Company, assignee: *See*—
Ulrich, Sanford S.
Robinson, John H., Louisville, Ky., assignor to General Electric Company. Clothes drier lint trap. 2,644,246, July 7.
Robinson, Sam P., and R. R. Goins, Bartlesville, Okla., assignors to Phillips Petroleum Company. Pebble testing method and apparatus. 2,644,328, July 7.
Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Coating of ammonium nitrate fertilizer. 2,644,769, July 7.
Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Heat-exchange pebbles. 2,644,799, July 7.
Rockwell, Chauncey L., Portland, Oreg., assignor, by mesne assignments, of one-half to R. P. Gantenbein, G. G. Aston, and R. Adams. Feed delivery device for newspaper sections and the like. 2,644,685, July 7.
Rockwell Register Corporation, assignee: *See*—
Wheelbarger, Albert S.
Roebuck, David S. P., Wrexham, Wales, assignor, by mesne assignments, to Monsanto Chemicals Limited, London, England. Oxidation of hydrocarbons. 2,644,840, July 7.
Roehm, Charles W.: *See*
Hulseberg, Paul J., and Roehm.
Roesch, George R., assignor to The Rush Stamping Company, Toledo, Ohio. Brake lever. 2,644,342, July 7.
Roesch, George R., assignor to The Rush Stamping Company, Toledo, Ohio. Brake lever mechanism. 2,644,343, July 7.
Rogatchoff, Theodore, Baltimore, Md. Traction motor dolly. 2,644,406, July 7.
Rogers, Clifford R., H. H. Kolzing, and J. L. Heinlein, Shelbyville, Ill., assignors to The Oliver Corporation. Hydraulic pickup baler. 2,644,283, July 7.
Rohr Aircraft Corporation, assignee: *See*—
Tierney, Samuel, Jr.
Rohrscheib, George F., Pewaukee, Wis., and H. L. Reynolds, assignors to Verson Allsteel Press Company, Chicago, Ill. Hydraulic press control system having hydraulically operated main valve. 2,644,303, July 7.

Roller-Smith Corporation, assignee: *See*
Miller, Archie B.
Romano, Anthony, assignor to The Blinking Doll Enterprises, Incorporated, New Haven, Conn. Animated motor actuated walking doll. 2,644,273, July 7.
Root, John J., New York, N. Y. High-frequency antenna. 2,644,888, July 7.
Ross, Raymond W., assignor to Leeds and Northrup Company, Philadelphia, Pa. Enclosure formed by extruded side walls having an integral flange. 2,644,602, July 7.
Roth Rubber Company, assignee: *See*—
Klingler, Karl A.
Roubian, Vahé S., Manhasset, N. Y. Insulating and medicinal pad for dental cavities. 2,644,232, July 7.
Rowe Manufacturing Co., Inc., assignee: *See*
Gabrielsen, Christian
Rowley, Arthur C., Excel Hill, assignor to Globe Automatic Sprinkler Co., Inc., a corp. of Pennsylvania, Philadelphia, Pa. Dry pipe valve. 2,644,479, July 7.
Rubin, Louis C., West Caldwell, assignor to The M. W. Kellogg Company, Jersey City, N. J. Packing composition containing polytrifluorochloroethylene and an inorganic antifriction agent. 2,644,804, July 7.
Ruckstuhl, Hans, and W. Wehrli, assignors to Sandoz A. G., Basel, Switzerland. Cupriferous polyazo dyestuffs. 2,644,812, July 7.
Ruckstuhl, Hans, and W. Wehrli, assignors to Sandoz A. G., Basel, Switzerland. Cupriferous polyazo dyestuffs. 2,644,813, July 7.
Rudeen, Carl S., Pocatello, Idaho. Twine knotter. 2,644,703, July 7.
Rudel, Harry W., Roselle Park, and M. Gargisa, Elizabeth, N. J., assignors to Standard Oil Development Company. Rust inhibiting composition. 2,644,793, July 7.
Ruffle, William H., assignor to Speed Development Company Limited, Hayes, England. Fluid pressure operated switch. 2,644,867, July 7.
Ruggles, David M.: *See*
Barry, Joseph F., and Ruggles.
Rush Stamping Company, The, assignee: *See*—
Roesch, George R.
Russell, Frank J., Jr., Marquette, Mich. Metal foil matrix. 2,644,778, July 7.
Russell, Robert E., assignor to Frost Company, Kenosha, Wis. Waste fitting. 2,644,543, July 7.
Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Material elevator. 2,644,570, July 7.
Rust, John B.: *See*
Hammer, Irving P., and Rust
S & C Electric Company, assignee: *See*
Lindell, Sigurd I.
Saaf, Fritz A., Aurora, Ill., assignor to All Steel Equipment Inc. Doorpost construction. 2,644,555, July 7.
Sadowsky, Meier, Elkins Park, Pa., assignor to Radio Corporation of America. Applying films on cathode ray screens. 2,644,770, July 7.
Safe Padlock and Hardware Company, The, assignee: *See*
Hagstrom, Gotthard.
Safety Car Heating and Lighting Company, Inc., The, assignee: *See*
Dodds, Robert B., Hibbs, and Napier.
Saint-Maurice, Henri, assignor to Etablissements H. Saint-Maurice & Cie, Societe a Responsabilite Limitee, Paris, France. Sectional article of furniture. 2,644,511, July 7.
Sallido, Juan G., Central Preston, Cuba. Hoist shovel. 2,644,253, July 7.
Salvaneschi, Pino, Broni, Italy. Apparatus for the continuous production of cement-fiber sheets. 2,644,373, July 7.
Sammis, Herbert A., Huntington, N. Y. Pivoted side bars for mill wagons. 2,644,715, July 7.
Sanders, H. A., assignee: *See*—
Davis, Harry R.
Sanders, Helen E., Los Angeles, Calif. Posture correcting machine. 2,644,447, July 7.
Sandow, Albert A., Los Angeles, Calif. Unitary bed structure. 2,644,168, July 7.
Sandoz A. G., assignee: *See*
Peter, Albin, and Günthart.
Ruckstuhl, Hans, and Wehrli.
Sanz, Manuel C., Los Angeles, and J. Castelfranco, South Gate, Calif., assignors to North American Aviation, Inc. Laminated jet vane. 2,644,296, July 7.
Sargent, Herbert: *See*
Ladd, Elbert C., and Sargent.
Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Vibration isolating means for sewing machines. 2,644,413, July 7.
Sauer, George, Berwyn, and A. M. Schwedu, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine with drive and support therefor. 2,644,414, July 7.
Saylor, John S., Jr., Sinking Spring, Pa., assignor to Standard Oil Development Company. Friedel-crafts isobutylene polymerizations in chlorofluoroalkene solution. 2,644,809, July 7.
Schaffer, David J.: *See*—
Fricke, Guy C., Rimberg, and Schaffer.
Schaumer, Theo B., Los Angeles, Calif. Brassière having elastic cups. 2,644,162, July 7.
Schiemann, Fred J., Denver, Colo. Fluid bleeding apparatus. 2,644,548, July 7.
Schindler, Frank S., and R. K. Titus, Elgin, assignors to Chicago Metal Hose Corporation, Maywood, Ill. Reinforced flexible conduit. 2,644,487, July 7.
Schlageter, Harold J., Bremerton, Wash. Closure remover with jaw wheels controlled by intersecting cam and radial slots. 2,644,351, July 7.
Schleret, Armand P.: *See*
Danielsen, August A., and Schleret.
Schoenberg, Andrew A., Philadelphia, and J. V. Hastings, III, Gladwyne, Pa. Applying decorative design to leather. 2,644,262, July 7.
Schoenherr, Leonard W., Ludington, Mich. Spring-held decorative shade. 2,644,883, July 7.
Schoepe, Harry: *See*—
Curtis, Myron S., and Schoepe.
Schommer, Oliver J., Melrose Park, assignor to Johnson Fare Box Company, Chicago, Ill. Card sorting device. 2,644,459, July 7.
Schonitzer, Rudolph I., assignee: *See*
Allen, Edwin L.
Schörg, Carl C., Frankfurt am Main Hoechst, Germany. Inductively heated electrical contact furnace with preheater. 2,644,881, July 7.
Schreyer, Ralph C.: *See*
Brooks, Richard E., and Schreyer.
Schroeder, Arthur J., Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y. Printing ink. 2,644,759, July 7.
Schroeder, Arthur J., Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y. Printing ink. 2,644,760, July 7.
Schroeder, Simon E., Oshkosh, Wis. Liquid delivery spout assembly. 2,644,630, July 7.
Schubert, Dale L., assignor to Plywood Research Foundation, Tacoma, Wash. Edge gluing device. 2,644,496, July 7.
Schultz, Roy M., assignor to D. A. Freeman, Chicago, Ill. Garment pressing machine. 2,644,254, July 7.
Schumacher, Frank A., Erie, Pa., and J. R. Tucker, Marblehead, Mass., assignors to General Electric Company. Compensated control system. 2,644,314, July 7.
Schummacher, Joseph S.: *See*—
King, Edward H., and Schummacher.
Schwab, Louis, Astoria, N. Y. Paperbox covering machine. 2,644,374, July 7.
Schweda, Albert M.: *See*
Sauer, George, and Schweda.
Schweitzer, Carl E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Oxidation of olefinic compounds. 2,644,837, July 7.
Schwender, Anthony F., Ridley Park, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manually and fluid pressure operated valve. 2,644,485, July 7.
Schwester, Daniel P., East Orange, assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J. Spirally wound corrugated welded tubing. 2,644,879, July 7.
Scott, Charles G., Kingsport, Tenn. Pneumatically operated picker mechanism for looms. 2,644,489, July 7.
Scott, Joseph E., Pratt, Kans. Instrument for removing saliva. 2,644,234, July 7.
Scull, William S., 2nd, Bryn Mawr, and G. A. Fisher, Selinsgrove, Pa., assignors, by mesne assignments, to Jabez Burns & Sons, Inc. Apparatus for roasting vegetable materials. 2,644,681, July 7.
Sebel, Harry, London, England. Crank mechanism. 2,644,345, July 7.
Sebens, Carl R., Bridgeport, Conn., assignor to General Electric Company. Water cooler for refrigerator. 2,644,318, July 7.
Sedgfield, Hugh B., London, F. A. Summerlin, Lee, London, and G. H. Kyte, Ealing, London, England, assignors to The Sperry Corporation. Servo system. 2,644,427, July 7.
Seech, Fran, assignee: *See*—
Pepin, Joseph.
Seligman, Miriam, Philadelphia, Pa. Walking horse toy. 2,644,248, July 7.
Senif, Charles G., Rome, N. Y. Wall box and bracket. 2,644,600, July 7.
Sevison, Luther E., Toledo, Ohio. Voltage regulator and current control device for automotive vehicles. 2,644,869, July 7.
Sewell, Duane C., Concord, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Magnetic flux direction determining apparatus. 2,644,922, July 7.
Shapiro, William J., Brooklyn, N. Y. Toy glider and launching platform. 2,644,271, July 7.
Shaw, George E., Nellsville, Wis. Forced draft vacuum stack for milk driers. 2,644,391, July 7.
Shell Development Company, assignee: *See*—
Johnson, Ava J., and Cherniavsky.
Max, Nicolaas.
van Helmingen, Jan.
Shenk, Wilbur J., Jr., Shaker Heights, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Electrodeposition of nickel. 2,644,788, July 7.
Shenk, Wilbur J., Jr., Shaker Heights, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Electrodeposition of nickel. 2,644,789, July 7.
Shiffler, William H., assignor to California Research Corporation, San Francisco, Calif. Gasification of sulfuric acid wastes. 2,644,737, July 7.





Shmukler, Albert, and H. Bronstein, Philadelphia, Pa. Articulator. 2,644,233, July 7.
Shunk, Clifford H.: *See*—
Holly, Frederick W., Shunk, Cahill, and Folkers.
Siegel, Philip, New York, N. Y. Compressing or squeezing device for mops. 2,644,182, July 7.
Signode Steel Strapping Company, assignee: *See*—
Childress, William C., and Ericsson.
Simkins, Thomas R., East Williston, and R. N. Jasper, Baldwin, assignors, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Forming fluffed filamentary massea and article produced thereby. 2,644,780, July 7.
Simko, Andrew S., Passaic, N. J. Ball throwing sling. 2,644,441, July 7.
Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Cutter chain. 2,644,679, July 7.
Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Cutter chain. 2,644,680, July 7.
Simon, Hans L., London, England. Means for agitating liquids. 2,644,677, July 7.
Simons, Joseph H.: *See*—
Kanck, Edward A., and Simons.
Singer Manufacturing Company, The, assignee: *See*—
Inglas, Ross D.
Palmer, Ralph F.
Sites, Benjamin L.: *See*—
Peyrebrune, Henri E., Pasquinelli, and Sites.
Slater, John M.: *See*—
Tauscher, Vernon A., Slater, and Emmi.
Slominski, William L.: *See*—
Tanko, Kalman, and Slominski.
Small, Kenneth W., Independence, Mo. Steering wheel microphone. 2,644,858, July 7.
Smith, John P., Cranbury, N. J., assignor to Radio Corporation of America. Regulated high-voltage power supply system. 2,644,917, July 7.
Smith, L. C., & Corona Typewriters, Inc., assignee: *See*—
Hill, Laurence B., and Walker.
Smith, Luke E., assignor to Quick-Way Truck Shovel Co., Denver, Colo. Back filling attachment for power shovels. 2,644,251, July 7.
Smith, Philip N., Clemson, assignor to Deering Milliken Research Trust, Pendleton, S. C. Stop motion for textile machines. 2,644,221, July 7.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Flow control valve. 2,644,476, July 7.
Smith, Walter E., Ventura, Calif. Pitch changing device for musical instruments. 2,644,360, July 7.
Smolak, George and E. F. Dyer, Somerville, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Lightweight panel and manufacture. 2,644,781, July 7.
Smoot, Charles H., assignor to Republic Flow Meters Company, Chicago, Ill. Control system for a plurality of related variables. 2,644,642, July 7.
Societe Anonyme Andre Citroen, assignee: *See*—
Itrueder, Antoine.
Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*—
Guillaume, André.
Societe E. C. T. A. (Societe d'Entreprise de Construction et de Travaux d'Art), assignee: *See*—
Hoguet, Jules.
Societe Generale d'Electronique, assignee: *See*—
Auphan, Michel.
Societe Française Radio-Electrique, assignee: *See*—
Chauveau, Louis.
Societe Nationale de Constructions Aeronautiques des Sud-Ouest (Societe Anonyme), assignee: *See*—
Maillard, Francis, Laville, and Cantinieau.
Society Brevets Aero-Mecaniques, S. A., assignee: *See*—
Maillard, Bernard.
Society "La Radio-Industrie," S. A., assignee: *See*—
de France, Henri Georges.
Soffer, Milton D., Northampton, Mass., assignor to Research Corporation, New York, N. Y. L,1-disubstitution products of 2-tetralones. 2,644,836, July 7.
Sokolik, Edward, New Brighton, Minn. Colonic-vaginal irrigator. 2,644,451, July 7.
Sonneborn, L., Sons, Inc., assignee: *See*—
Bevevino, Angelo J.
Sonnenschein, Abraham H.: *See*—
Finke, Herbert A., and Sonnenschein.
Spalding, C. A., Company, assignee: *See*—
Spalding, Clarence A.
Spalding, Clarence A., Elkins Park, assignor to C. A. Spalding, H. Drosdat, J. Graff, and W. Huebner, copartners trading as C. A. Spalding Co., Philadelphia, Pa. Receptacle capping machine. 2,644,415, July 7.
Specialties Development Corporation, assignee: *See*—
Grant, Harry C., Jr.
Griggs, Nelson S.
Speed Development Company Limited, assignee: *See*—
Ruffle, William H.
Spence, Harry R., Lewiston, assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Bright annealing and cleaning. 2,644,775, July 7.
Spence, Hubert L., East Cleveland, and D. Willison, Shaker Heights, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Cushioning mechanism. 2,644,684, July 7.
Spencer, Lloyd, South Pasadena, Calif. Knitting needle. 2,644,324, July 7.
Sperry Corporation, The, assignee: *See*—
Kellogg, Spencer, 2nd.
Sedgfield, Hugh B., Summerlin, and Kyte.
Varian, Sigurd F.
Spivack, John D., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Di-nitrogen containing dicarboxylic acids. 2,644,826, July 7.
Springer, Winton L., New York, N. Y. Food service conveyer. 2,644,567, July 7.
Stahl, William F., Kenilworth, and F. V. Collins, Des Plaines, Ill., said Collins assignor to said Stahl. Bobbin. 2,644,651, July 7.
Stahmer, Bernhardt, Omaha, Nebr. Feed chute for potato chip machines. 2,644,500, July 7.
Standard Oil Company, assignee: *See*—
Beretvas, Helen S.
Standard Oil Development Company, assignee: *See*—
Cuifee, John D., and Kraus.
Carlson, Carl S., Biribauer, and Porter.
Harding, Clarke T., Mayer, and Wright.
Hemminger, Charles E.
Hill, Max W.
Jonach, Frederick L., Wilson, and Heigl.
Kanady, William E.
Mottern, Henry O., and Philo.
Ragland, Douglas.
Roberts, John T.
Rudel, Harry W., and Gargisa.
Saylor, John S., Jr.
Standard Paper Box Corp., assignee: *See*—
Petter, Noel A.
Stankovich, George P., Minneapolis, Minn. Mounting apparatus for sharpening tools, blades, and the like. 2,644,279, July 7.
Stanley, Malcolm N., Newton, Mass. Collapsible boat. 2,644,177, July 7.
Stark, Donald A.: *See*—
Waterman, William, and Stark.
Stead, Vergil G., assignee: *See*—
Bailey, Malcolm, Sr.
Stedman, James A., Granston, R. I., assignor to Curtis Company. Easy reading micrometer caliper. 2,644,240, July 7.
Stein, Hall & Company, Inc., assignee: *See*—
Frisch, Nat, and Sweeney.
Sterling Drug Inc., assignee: *See*—
Schroeder, Arthur J.
Stern, William, Philadelphia, Pa. Foot and shoe protector. 2,644,249, July 7.
Stettner, Anton, Corpes Christi, Tex. Fish lure. 2,644,265, July 7.
Stillwell, William F.: *See*—
Friday, James D., and Stillwell.
Stirn, Frank E., Pearl River, and A. S. Taylor, Spring Valley, assignors to American Cyanamid Company, New York, N. Y. Vacuum powder feeder. 2,644,617, July 7.
Stone, Wallace G., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Surge suppressor. 2,644,913, July 7.
Stopper, Charles A., Camden, N. J., assignor to Diamond Paper & Box Company, Philadelphia, Pa. Paperboard box construction (hexagonal). 2,644,633, July 7.
Stuart, Kenneth E., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Means for sealing joints in pressure containers. 2,644,611, July 7.
Stump, William L.: *See*—
Zettlemoyer, Albert C., Walker, and Stump.
Sullivan, Irvin J., Culdesac, Idaho. Cam operated target image having an irregular movement. 2,644,884, July 7.
Sulphite Products Corporation, assignee: *See*—
Pearl, Irwin A.
Sulzer Freres, Societe Anonyme, assignee: *See*—
Pfarrwaller, Erwin.
Summerlin, Frederick A.: *See*—
Sedgfield, Hugh B., Summerlin, and Kyte.
Sumner, Lawson D., Lake George, Colo. Pin fastener. 2,644,211, July 7.
Super Glove Company, The, assignee: *See*—
Newhower, Leo.
Supersite Corporation, assignee: *See*—
Reed, Daniel E.
Sutherland, Edwin M., and H. W. Albrecht, East Cleveland, Ohio, assignors to the United States of America as represented by the Secretary of the Navy. Electrolytic cell. 2,644,337, July 7.
Sutton, John H., Los Angeles, Calif. Rotary soil tiller. 2,644,386, July 7.
Swanson, Kenneth P., Abington, assignor, by mesne assignments, to Textile Engineering Corporation, Whitman, Mass. Buffing machine for drawing rolls. 2,644,276, July 7.
Sweco Products, Inc., assignee: *See*—
Forgett, Valmore J.
Sweeney, Frank J.: *See*—
Frisch, Nat, and Sweeney.
Sylvania Electric Products Inc., assignee: *See*—
Lawson, Bert E., and Bullock.
Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Color television receiver. 2,644,854, July 7.

Tabet, Georges E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Oxidation process for production of 2,6-naphthalic acid. 2,644,841, July 7.

Tamm, Emil S., Plainfield, N. J., assignor to The Hoover Company, North Canton, Ohio. Switch governor having perpendicularly pivoted insertable weights. 2,644,683, July 7.

Tanko, Kalman, and W. L. Sluminski, Chicago, Ill. Popcorn dispenser. 2,644,614, July 7.

Tapke, Kenneth W., assignor to Hendix Aviation Corporation, South Bend, Ind. Thermocouple. 2,644,851, July 7.

Tauscher, Vernon A., Los Angeles, J. M. Slater, Inglewood, and J. Emmi, Los Angeles, Calif., assignors to North American Aviation, Inc. Double-ball gyro precession axis bearing. 2,644,727, July 7.

Taylor, Arthur S.: *See*—
Stirn, Frank E., and Taylor.

Techag, A. G., assignee: *See*—
Valentini, Aldo, and Oertli.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Ericsson, Eric A., Hullegård, and Jacobaeus.

Texas Company, The, assignee: *See*—
Herzog, Gerhard.

Textile Engineering Corporation, assignee: *See*—
Cotchett, Louis M.
Swanson, Kenneth P.

Thaulow, Sven, Royken, Norway. Producing test specimens of concrete for pressure tests. 2,644,220, July 7.

Thede, Vernon M., Muscatine, Iowa. Drive-over metal cattle gate. 2,644,074, July 7.

Thiemann, Hugo E. W.: *See*—
Herzel, Max, Mast, and Thiemann.

Thomas, Harry L., Tucson, Ariz. Irrigator. 2,644,719, July 7.

Thomas, Jean: *See*—
Duke, Harry, Greenwood, and Thomas.

Thomas, Thomas H.: *See*—
Price, Earl R., and Thomas.

Thomason, Hjalmar, Los Angeles, Calif. Grinder mechanism for cleaning brake shoes. 2,644,281, July 7.

Thompson Products, Inc., assignee: *See*—
Graham, Matthew P.

Thompson, Roscoe L.: *See*—
Parker, Samuel P., and Thompson.

Thornton, Ray F., Dexter, Mich. Tandem axle suspension construction. 2,644,698, July 7.

Thurber, Elmer A., Murray Hill, and Leland A. Wooten, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selenium rectifier and its production. 2,644,915, July 7.

Tidd, Elbert De F.: *See*—
Vroom, Kenneth E., and Tidd.

Tide Water Associated Oil Company, assignee: *See*—
Spivack, John D.

Tierney, Samuel, Jr., assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Instrument for measuring magnetic permeability. 2,644,920, July 7.

Tietze, Hermann, assignor to O. H. Drager, Lubeck, Germany. Air pump for artificial respiration. 2,644,445, July 7.

Timken-Detroit Axle Company, The, assignee: *See*—
Powers, Milton A.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,644,502, July 7.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Titeflex, Inc., assignee: *See*—
Schwester, Daniel P.

Titus, Richard K.: *See*—
Schindler, Frank S., and Titus.

Trimble, Inc., assignee: *See*—
Baxter, William C.

Triolo, Louis, Brooklyn, N. Y. Combination lining and edge finishing machine. 2,644,375, July 7.

Triumph Dishwashers Limited, assignee: *See*—
Hummel, Frederick S.

Trudeau, Oscar H.: *See*—
Cannon, Harry B., and Trudeau.

Tucker, John B.: *See*—
Schumacher, Frank A., and Tucker.

Tull, William J.: *See*—
Lubrs, Charles H., and Tull.

Turnbull, Frederick M., assignee: *See*—
Brown, Frank E.

Turnupseed, Harley E.: *See*—
Turnupseed, Winifred J. and H. E.

Turnupseed, Winifred J., Porterville, and H. E. Turnupseed, Tulare, Calif. Pressure responsive mercury switch. 2,644,866, July 7.

Ulrich, Sanford S., assignor to Robinson Furniture Company, Detroit, Mich. Weight distribution testing apparatus. 2,644,332, July 7.

Unal, Yunus, La Fayette, Ind. Spring valve jig. 2,644,227, July 7.

Union Special Machine Company, assignee: *See*—
Harrod, William D.
Sauer, George.
Sauer, George, and Schweda.

United Aircraft Corporation, assignee: *See*—
Billman, Louis S.
Jensen, Harry T.
Koup, Alfred L., and Wagner.

United-Carr Fastener Corporation, assignee: *See*—
Bedford, William A., Jr.
Van Buren, Harold S., Jr.

United Shoe Machinery Corporation, assignee: *See*—
Ashworth, Fred.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Sewell, Duane C.
Stone, Wallace G.

United States Rubber Company, assignee: *See*—
Crawford, William B.
Ladd, Elbert C., and Sargent.

Universal Manufacturing Corp., assignee: *See*—
North, Thomas C.

Universal Oil Products Company, assignee: *See*—
Bloch, Herman S., and Hoffman.
Bloch, Herman S.
Hartwig, Karl T., and Watkins.

Updegrove, Lawrence F., Alice, Tex. Fishing line sinker. 2,644,266, July 7.

Upjohn Company, The, assignee: *See*—
Weisblat, David I., and Lyttle.

Urban, Frank J., assignor to Magic Hanger, Inc., Toledo, Ohio. Skirt and trousers hanger. 2,644,621, July 7.

Valentini, Aldo, Lausanne, and T. Oertli, Zurich, assignors to Techag A. G., Kusnacht-Zurich, Switzerland. Electric grill. 2,644,880, July 7.

Van Buren, Harold S., Jr., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Three-side lock snap fastener. 2,644,214, July 7.

Van Buren, Harold S., Jr., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener socket assembly. 2,644,215, July 7.

Van Heiningen, Jan, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Drilling fluid composition. 2,644,791, July 7.

Vance, John E.: *See*—
Brown, Ralph L., and Vance.

Vandenbroele, Oscar H.: *See*—
Jennen, Jacob J., and Vandenbroele.

Vapor Heating Corporation, assignee: *See*—
Clarkson, Alick.

Varela, Arthur A., Alexandria, Va. Electronic switch for high-frequency power. 2,644,920, July 7.

Varian, Sigurd F., Stanford, Calif., assignor to The Sperry Corporation, Great Neck, N. Y. Microwave frequency cavity resonator structure. 2,644,908, July 7.

Velle, Orville D., deceased, Bellingham, Wash., O. W. Norton, executor of said O. D. Velle, assignor, by mesne assignments, to James Q. Leavitt Company. Can filling machine. 2,644,629, July 7.

Vereinigte Oesterreichische Eisen-und Stahlwerke Aktiengesellschaft, assignee: *See*—
Hauttmann, Hubert.

Vereinigte Papierwerke Schickedanz & Co., assignee: *See*—
Morhard, Josef K.

Verson Allsteel Press Company, assignee: *See*—
Rohrscheib, George F., and Reynolds.

Verwers, Leonard, assignee: *See*—
Heki, William H.

Vick, Millard, Portsmouth, Va. Bicycle seat height adjusting means. 2,644,504, July 7.

Viniegra, Ernesto F., Mexico City, Mexico. Finger tip massaging instrument. 2,644,446, July 7.

Voda, John J., and R. E. Wallenbrock, Evansville, Ind., assignors to International Harvester Company. Breaker strip construction. 2,644,606, July 7.

Voda, John J., Evansville, Ind., assignor to International Harvester Company. Illuminated handle for refrigerated cabinet doors. 2,644,882, July 7.

Vogel, Alvin R., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Cable retainer. 2,644,667, July 7.

Vroom, Kenneth E., West Englewood, and E. De F. Tidd, Clinton, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Thermostatic and circuit breaker device. 2,644,873, July 7.

Wagner, Arthur A.: *See*—
Koup, Alfred L., and Wagner.

Wagner, E. R., Manufacturing Company, assignee: *See*—
Miller, Lester C.

Wagner, Robert A.: *See*—
Horton, Joseph W., and Wagner.

Waldorf Paper Products Company, assignee: *See*—
Guyer, Reynolds.

Walker, Charles: *See*—
Hill, Laurence B., and Walker.

Walker, William C.: *See*—
Zettlemoyer, Albert C., Walker, and Stump.

Wallenbrock, Ralph E.: *See*—
Voda, John J., and Wallenbrock.

Wallman, Henry: *See*—
Gadsden, Christopher P., Macnee, and Wallman.

War, United States of America as represented by the Secretary of, assignee: *See*—
Averill, Harold P., and Pfanstiel.

Ward, Edgar A., Schenectady, assignor to American Locomotive Company, New York, N. Y. Flushing device. 2,644,472, July 7.

Warner & Swasey Company, The, assignee: *See*—
Curtis, Myron S., and Schoepe.

Warrick, Leland K., Muskegon Heights, and F. E. La Flame, Spring Lake, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Compressor. 2,644,635, July 7.

Waterman, Herbert C., Chicago, Ill., and F. V. Kuzmitz, assignors to Hendix Aviation Corporation, South Bend, Ind. Electrical fuel feeding system. 2,644,300, July 7.

Waterman, William, Chicago, Ill., and D. A. Stark, Willoughby, Ohio, said Stark assignor to said Waterman. Hydraulic control device. 2,644,429, July 7.

Watkins, Charles H.: *See*—
Hartwig, Karl T., and Watkins.

Watkins, Lucius D., Milwaukee, Wis., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Dual jacketed engine provided with duplex cooling systems. 2,644,434, July 7.

Watson, Kenneth: *See*—
McLeod, Roderick C., and Watson.

Webb, Jervis B., Bloomfield Hills, and J. C. Webb, Birmingham, assignors to Jervis B. Webb Company, Detroit, Mich. Trolley conveyer bracket. 2,644,571, July 7.

Webb, Jervis B., Company, assignee: *See*—
Webb, Jervis B. and J. C.

Webb, Jervis C.: *See*—
Webb, Jervis B. and J. C.

Weber, Fred L., Miami, Fla. Interlocking roofing tile. 2,644,410, July 7.

Webster, Roderick S., assignor to The Hydro-Blast Corporation, Chicago, Ill. Dewatering device for sand and the like. 2,644,587, July 7.

Wehrli, Walter: *See*—
Ruckstuhl, Hans, and Wehrli.

Weidenheimer, Joseph F., Pearl River, and L. Ritter, Spring Valley, assignors to American Cyanamid Company, New York, N. Y. Parenteral aureomycin in anhydrous form. 2,644,783, July 7.

Welertz, Axel H., Malmo, and S. H. A. Welertz, Svedala, Sweden. Combined pneumatic and hydraulic resilient suspension and shock absorbing device for vehicles. 2,644,699, July 7.

Welertz, Stig H. A.: *See*—
Welertz, Axel H. and S. H. A.

Well, Leonard, Nashville, Tenn. Mop with detergent supply. 2,644,185, July 7.

Weill, Bruno R., Statesville, N. C. Resilient seating surface for chairs. 2,644,508, July 7.

Weimer, Paul E.: *See*—
Neher, Clarence M., Padgitt, and Weimer.

Weisblat, David I., and D A. Lyttle, assignors to The Upjohn Company, Kalamazoo, Mich. Production of nitromalonic esters. 2,644,838, July 7.

Weitzner, Geza, New York, N. Y. Self-contained envelope opener and contents ejector. 2,644,634, July 7.

Wells, Lloyd A., Long Beach, assignor to Brown Citrus Machinery Corporation, Whittier, Calif. Rotary fruit feeder. 2,644,568, July 7.

Wendell, Douglas C., Jr.: *See*—
Bonn, Theodore H., and Wendell.

Wesenberg, Emil F.: *See*—
Drieschman, Donald F., and Wesenberg.

West Bend Aluminum Co., assignee: *See*—
Heidner, Richard C., and Palmer.

West, Woodrow W., Rosemont, assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Two stage hammer mill. 2,644,644, July 7.

Westcamp, Leslie L., Fair Oaks, Calif. Table and easel combination. 2,644,732, July 7.

Western Electric Company, Incorporated, assignee: *See*—
Duke, Harry, Greenwood, and Thomas.

Western States Machine Company, The, assignee: *See*—
Hertrich, Joseph.

Westinghouse Electric Corporation, assignee: *See*—
Baker, Benjamin P.
Barnsteiner, Alfons.
Derr, Willard A., and Reagan.
Schwendner, Anthony F.

Westman, Elmer A., Fenton, Mich. Window structure. 2,644,557, July 7.

Wheelbarger, Albert S., assignor to Rockwell Register Corporation, Dayton, Ohio. Reduction gear unit. 2,644,346, July 7.

Wheelock, Charles E., Syracuse, N. Y. Cigarette holder. 2,644,463, July 7.

White Cap Company, assignee: *See*—
Pacilio, Joseph C.

White, Gwendolyn S., Darien, Conn. Nursing bottle holder. 2,644,623, July 7.

White, Joseph L.: *See*—
McCormack, John C., and White.

White Manufacturing Company, assignee: *See*—
White, William M., Jr.

White, William McKean, Jr., assignor to White Manufacturing Company, Elkhart, Ind. Switch heater controller. 2,644,657, July 7.

Whitin Machine Works, assignee: *See*—
Elliott, Robert R., Sr.

Whitney, Gilbert C., Jr.: *See*—
Frisch, Martin, and Whitney.

Wilden, James K., Colton, Calif. Mucking machine. 2,644,596, July 7.

Wilie, Alexander T.: *See*—
Glazebrook, James R., and Wilie.

Williams, Chester I., Grand Rapids, Mich. Waler support. 2,644,219, July 7.

Williams, Emery L., assignee: *See*—
Friday, James D., and Stillwell.

Williams, Frank B., assignee: *See*—
Hood, Eugene J.

Williams, Harold E., assignee: *See*—
Hood, Eugene J.

Williams, Jack, and A. Diamond, Bronx, N. Y. Article and method of making fabric covered rods. 2,644,776, July 7.

Williams, Joseph C., Independence, Mo. Jet propulsion engine with regulation of air distribution. 2,644,299, July 7.

Williams, Rollo G., Great Neck, N. Y., assignor by mesne assignments, to Duro-Test Corporation, North Bergen, N. J. Color lighting control system. 2,644,912, July 7.

Willison, Donald: *See*—
Spence, Hubert L., and Willison.

Wilmer, Emory M., Chillum, and W. P. Hunter, Silver Spring, Md. Clamp used in clamping plastic blocks together in plank construction. 2,644,497, July 7.

Wilson, James A.: *See*—
Jonach, Fredrick L., Wilson, and Heigl.

Winslow, Raymond M., assignor to Winston and Newell Company, Minneapolis, Minn. Lifting and handling truck for banana bunches. 2,644,398, July 7.

Winston and Newell Company, assignee: *See*—
Winslow, Raymond M.

Witt, Frank, San Francisco, Calif. Ignition strip for cigarettes. 2,644,461, July 7.

Wolfe, Albert E., Jr., Compton, Calif., assignor, by mesne assignments, to Computer Research Corporation of California. Synchronizing generator. 2,644,887, July 7.

Wolff, Otto E., Cambridge, and M. N. Fairbank, Belmont, assignors to Polaroid Corporation, Cambridge, Mass. Photographic product for carrying out a one-step photographic process. 2,644,755, July 7.

Woodling, George V., Cleveland, Ohio. Tube coupling. 2,644,700, July 7.

Woods, Stephen E., Bristol, and B. G. Perry, Westbury-on-Trym, Bristol, assignors to The National Smelting Company Limited, London, England. Production of zinc. 2,644,312, July 7.

Woolven, John L., St. Vital, Manitoba, Canada. Decorations for Christmas trees. 2,644,260, July 7.

Wooten, Leland A.: *See*—
Thurber, Elmer A., and Wooten.

Work, Worth H., Portland, Oreg. Air vent cap for oil drums. 2,644,610, July 7.

Worst, Joseph C., Trenton, N. J., assignor to General Electric Company. Water drain for spin basket type washing machines. 2,644,326, July 7.

Wright Machinery Company, assignee: *See*—
Gunter, Coley W., and Howe.

Wright, Richard O.: *See*—
Harding, Clarke T., Mayer, and Wright.

Wrightam, Roy D., assignee: *See*—
Potter, George H.

Wurlitzer, Rudolph, Company, The, assignee: *See*—
Ebert, Edward A.

Wyman, Howard A., Jr., Wesleyville, Pa., assignor to General Electric Company. Water cooling arrangement for refrigerators. 2,644,316, July 7.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Diesel, Richard H.

Yeomans Brothers Company, assignee: *See*—
Yeomans, Charles.

Yeomans, Charles, Hubbard Woods, assignor to Yeomans Brothers Company, Chicago, Ill. Control system. 2,644,405, July 7.

Young, Charles M., Jr.: *See*—
Musschoot, Albert, Bergmann, and Young.

Youngren, Harold T., Birmingham, Mich., and S. V. Hettinger, Jr., Westchester, assignors to Borg-Warner Corporation, Chicago, Ill. Double countershaft transmission. 2,644,340, July 7.

Zbock, Frank: *See*—
Zbock, Peter W., and F.

Zbock, Peter W., and F., Bellaire, Ohio. Parachute, including a regulated air passage. 2,644,656, July 7.

Zettlemoyer, Albert C., W. C. Walker, and W. L. Stump, Bethlehem, Pa., assignors to Food Machinery and Chemical Corporation. Catalytic esterification process. 2,644,839, July 7.

Zimic, Michael, Lake Success, and A. Miskovsky, Deer Park, N. Y.; said Miskovsky assignor to said Zimic. Knitting machine. 2,644,323, July 7.

# LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Baby carriage, Folding. H. E. Cornish. Re. 23,681, July 7.
Electric tubular heater terminal seal. A. P. Charbonneau and E. W. Seeger. Re. 23,679, July 7.
Pen, Fountain. M. Segre. Re. 23,683, July 7.
Purification of glyceride oils. R. Clayton. Re. 23,680, July 7.
Unloading valve. R. Stevenson. Re. 23,682, July 7.

# LIST OF DESIGN INVENTIONS

Airplane. V. J. Burnelli. 169,962, July 7.
Awning. W. I. Smith. 169,993, July 7.
Blouse. J. Orloff. 169,986–8, July 7.
Bottle, Milk. R. A. Blunt. 169,958–9, July 7.
Brooch or similar article. F. C. Witmer. 169,997, July 7.
Brush, Child's scrub. J. W. Mayer. 169,983, July 7.
Cabinet, Sewing. B. L. Franklin. 169,969, July 7.
Canister. C. M. Del Mas. 169,966, July 7.
Cap. S. Feldman. 169,968, July 7.
Closure cap for steel cans or similar articles. J. W. Soffer and G. S. Hunt. 169,994, July 7.
Control panel for freezers, refrigerators, and the like. R. D. Rudlong. 169,961, July 7.
Crayon sharpener. M. C. Knapp. 169,980, July 7.
Decanter. H. C. Berkowitz. 169,957, July 7.
Desk and counter, Combined. W. D. Goins, Sr. 169,973, July 7.
Dispenser for liquids, Spray-type. K. K. Miller. 169,984, July 7.
Dispenser, Tape. J. O. Reinecke. 169,989, July 7.
Dispensing can, Powder. E. W. Freeman. 169,970, July 7.
Drawing board. L. Jonesl. 169,977, July 7.
Dropper for the ears, eyes, nose or the like. R. P. Vuillemenot and M. E. St. Clair. 169,996, July 7.
Fabric, Shaped textile. M. M. Schimmel. 169,992, July 7.
Flashlight casing. R. B. Lambert. 169,981, July 7.
Freezer and refrigerator, Combination. G. P. Kennedy. 169,978, July 7.
Front for spectacle frames. R. F. E. Stegeman. 169,995, July 7.
Game board or similar article. H. Keslers 169,979, July 7.
Hanger, Hat and coat. S. M. Sager. 169,991, July 7.
Hat. T. S. Geisel. 169,971, July 7.
Hobbyhorse. M. R. Hutchison. 169,976, July 7.
Lamp. C. R. Cassell. 169,965, July 7.
Lamp and container or the like, Combined. J. B. Musacchia and R. Nicyper. 169,985, July 7.
Lamp, Bed. H. Witt. 169,998, July 7.
Lamp, Music box nursery. R. Goldman and R. R. Nemzer. 169,974–5, July 7.
Lighting fixture. G. E. Glatthar and A. W. Matteson. 169,972, July 7.
Opener or the like, Can. W. W. Edlund. 169,967, July 7.
Shirt, Sport. M. E. Cantor. 169,964, July 7.
Shoe. N. Baroumes. 169,956, July 7.
Stocking, Lady's. M. A. Rickert. 169,990, July 7.
Tractor. A. J. Lewis. 169,982, July 7.
Tray for typists' accessories. L. P. Caldwell and P. C. Wohlt. 169,963, July 7.
Wall fixture for deodorizing lamps. H. A. Brill and M. S. Slotsky. 169,960, July 7.



# LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting machine. T. M. Butler. 2,644,637, July 7.
Acylamino alkylsulphone anthraquinone vat dyestuffs. W. Jenny and W. Kern. 2,644,824, July 7.
Adjustable miter box. H. H. Hempe. 2,644,493, July 7.
Aerial cargo landing container. D. J. Kitch. 2,644,655, July 7.
Agitating liquids, Means for. H. L. Simon. 2,644,677, July 7.
Air conditioning unit, Wall mounted. W. F. Borgerd. 2,644,321, July 7.
Air cooling for internal-combustion engines. R. A. Hoxie. 2,644,435, July 7.
Airplane with auxiliary lifting rotor. H. B. Cowgill, Jr. 2,644,653, July 7.
Air pump for artificial respiration. H. Tietze. 2,644,445, July 7.
Air vent cap for oil drums. W. H. Work. 2,644,610, July 7.
Aitch-bone cutter. M. Fill. 2,644,194, July 7.
Alcohols from olefins, Preparing. R. E. Brooks and R. C. Schreyer. 2,644,844, July 7.
Alkali metal and ammonium sulfates of hydroxy ethers. M. Kosmin. 2,644,831, July 7.
Alkanol amine sulfates. M. Kosmin. 2,644,832, July 7.
Alkanolamine sulfates of hydroxy ethers. M. Kosmin. 2,644,833, July 7.
Alkylation of arylmethyl methyl ketones. F. S. Crossley. 2,644,843, July 7.
Amplifier for pulses. G. E. Hagen. 2,644,910, July 7.
Amplifier, High-frequency wide band. C. P. Gadsden, A. B. Macnee, and H. Wallman. 2,644,860, July 7.
Amusement device. M. R. Hollihan. 2,644,890, July 7.
Antenna, High-frequency. J. J. Root. 2,644,888, July 7.
Anthrapyridone dyestuffs. A. Peter and J. Günthart. 2,644,821, July 7.
Apparatus and method for conditioning oil and gas wells. B. E. Mater. 2,644,532, July 7.
Apparatus and method for preparing melamine. W. F. Gresham. 2,644,820, July 7.
Apparatus for forming tubes. J. W. Miller and A. J. Barrie. 2,644,416, July 7.
Apparatus for handling sludge. C. S. Harper and F. N. Moerk. 2,644,700, July 7.
Apparatus for producing stereoscopic pictures. W. A. Ayres. 2,644,382, July 7.
Apparatus for pumping drilling fluids. D. Ragland. 2,644,401, July 7.
Apparatus for removing frozen confections from spurs. H. G. Huebsch. 2,644,469, July 7.
Apparatus for roasting vegetable materials. W. S. Scull, 2nd, and G. A. Fisher. 2,644,681, July 7.
Apparatus for spray drying. A. G. Brendel. 2,644,516, July 7.
Apparatus for the continuous production of cement-fiber sheets. P. Salvaneschi. 2,644,373, July 7.
Apparatus for the transmission of alarm signals. L. Chauveau. 2,644,937, July 7.
Applying decorative design to leather. A. A. Schoenberg and J. V. Hastings, III. 2,644,262, July 7.
Applying films on cathode-ray screens. M. Sadowsky. 2,644,770, July 7.
Article and method of making fabric covered rods. J. Williams and A. Diamond. 2,644,776, July 7.
Article with passages. L. Cangemi. 2,644,665, July 7.
Articulator. A. Shmukler and H. Bronstein. 2,644,233, July 7.
Artificial foot. A. Grisoni. 2,644,165, July 7.
Ash tray. C. Q. Cadman. 2,644,601, July 7.
Ash tray, Smoke siphoning. G. M. Breidert. 2,644,467, July 7.
Ash tray, Thermostatically controlled. M. Kenes. 2,644,468, July 7.
Aureomycin for injection. B. K. Harned and R. W. Cunningham. 2,644,782, July 7.
Automatic fluid transfer valve. D. Perlman. 2,644,481, July 7.
Automatically adjustable C clamp. W. J. Maleckl. 2,644,498, July 7.
Automobile door latch. E. D. Dall. 2,644,707, July 7.
Automotive variable-ratio power transmission. G. T. Randol. 2,644,359, July 7.
Auxiliary fuel supply tank. G. H. Potter. 2,644,514, July 7.
Awning or like structure, Metal. J. C. McCormack and J. L. White. 2,644,207, July 7.
Azo dyes and their use in color photography. B. Gaspar and P. D. Dreyfuss. 2,644,753, July 7.
Back filling attachment for power shovels. L. E. Smith. 2,644,251, July 7.
Bag: *See*—
Garment bag.
Baking frame. J. Cryns. 2,644,444, July 7.
Baler, Hydraulic pickup. C. R. Rogers, H. H. Kolzing, and J. L. Heimlein. 2,644,283, July 7.
Baler, Scrap metal. C. R. Golay. 2,644,351, July 7.
Ball bearing top roll. L. M. Cotchett. 2,644,202, July 7.
Ball throwing sling. A. S. Simko. 2,644,441, July 7.
Banding machine. C. W. Gunter and J. W. Howe, Jr. 2,644,628, July 7.
Bathroom structure, Prefabricated. J. F. Donahue. 2,644,203, July 7.
Battery switch. W. H. Childs, Sr. 2,644,864, July 7.
Battery tester. J. C. Hammond. 2,644,739, July 7.
Bearing: *See*—
Cantilever type bearing.
Double-ball gyro precession axis bearing.
Bearing construction for disk harrows. W. P. Oehler. 2,644,388, July 7.
Bed or pen, Child's swinging. J. Arvilla. 2,644,172, July 7.
Bed, Sofa. R. C. Read and F. J. Gregor. 2,644,169, July 7.
Bed structure, Unitary. A. A. Sandow. 2,644,168, July 7.
Bed with forward-turning back, Convertible seat. S. A. Kelly, Jr., and W. R. Lindsay. 2,644,170, July 7.
Beer tap. J. H. Brown. 2,644,619, July 7.
Bench stop, Adjustable. H. H. Logan. 2,644,499, July 7.
Bit: *See*—
Rock drilling bit.
Blood strainer and drip meter. F. A. Cutter. 2,644,586, July 7.
Boat, Collapsible. M. N. Stanley. 2,644,177, July 7.
Boat trailer, Amphibious. C. R. Livermon. 2,644,176, July 7.
Bobbin. W. F. Stahl and F. V. Collins. 2,644,651, July 7.
Booster device for operating well tools. T. M. Ragan. 2,644,528, July 7.
Booster unit for hydraulic pressure systems. E. R. Price and T. H. Thomas. 2,644,305, July 7.
Boric acid-methyl polysiloxane composition. R. W. Martin. 2,644,805, July 7.
Bottle. R. A. Blunt. 2,644,599, July 7.
Bottle carrier. R. Guyer. 2,644,624, July 7.
Bourdon tube. N. L. Bowditch. 2,644,336, July 7.
Box: *See*—
Adjustable miter box.
Box. C. L. Claff. 2,644,632, July 7.
Box construction (hexagonal), Paperboard. C. A. Stopper. 2,644,633, July 7.
Box for pharmaceutical preparations. E. E. Beadle. 2,644,259, July 7.
Bracket: *See*—
Trolley conveyer bracket.
Brake disk wear compensating and indicating means. T. T. Cagle. 2,644,549, July 7.
Brake shoe and assembling same. J. R. Glazebrook and A. T. Wille. 2,644,551, July 7.
Brassière having elastic cups. T. B. Schaumer. 2,644,162, July 7.
Breaker strip construction. L. H. Hinkel and J. R. Prosek. 2,644,603, July 7.
Breaker strip construction. L. H. Hinkel. 2,644,607, July 7.
Breaker strip construction. J. S. Palmer. 2,644,605, July 7.
Breaker strip construction. J. J. Voda and R. E. Wallenbrock. 2,644,606, July 7.
Bright annealing and cleaning. H. R. Spence. 2,644,775, July 7.
Broaching machine. W. S. Praeg. 2,644,369, July 7.
Brush for clothes, Hand-supported suction. E. C. Calvin. 2,644,189, July 7.
Brush stripper attachment for liquid containers. L. L. Kellett. 2,644,183, July 7.
Buffing machine for drawing rolls. K. P. Swanson. 2,644,276, July 7.
Building unit, Structural. N. T. Clements. 2,644,327, July 7.
Burn-off machine. T. W. Bailey. 2,644,274, July 7.
Burner device having heat exchange and gas flow control means for maintaining pyrophoric ignition therein. W. Dürr, L. Huber, and F. Haag. 2,644,512, July 7.
Burner head with secondary air feed grooves, Gas. A. J. Lampert and E. A. Merritt. 2,644,515, July 7.

Button attaching device, Separable. A. M. Ellis. 2,644,209, July 7.
Cabinet: *See*—
Music-box cabinet.
Cable retainer. A. R. Vogel. 2,644,667, July 7.
Cable sheathing. J. E. McLaughlin. 2,644,353, July 7.
Calculating machine. D. Broido. 2,644,638, July 7.
Cam operated target image having an irregular movement. I. J. Sullivan. 2,644,884, July 7.
Can filling machine. O. D. Velie. 2,644,629, July 7.
Cantilever type bearing. R. D. Ingalls. 2,644,728, July 7.
Capping machine, Receptacle. C. A. Spalding. 2,644,415, July 7.
Carbon dioxide storage. N. S. Griggs. 2,644,313, July 7.
Carbonaceous additive for molding sand. E. H. King and J. S. Schumacher. 2,644,741, July 7.
Carburetor for internal-combustion engines. C. W. Gilmore. 2,644,678, July 7.
Card sorting device. O. J. Schommer. 2,644,459, July 7.
Card sorting machine. T. F. Meagher. 2,644,458, July 7.
Carriage anchorage for traverse cords in drapery fixtures. J. N. Graver. 2,644,517, July 7.
Carriage shifting mechanism. N. F. Hawthorne. 2,644,639, July 7.
Carrier: *See*—
Bottle carrier.
Nesting type store service carrier.
Cartridge case containing propelling rocket igniting charge and rocket projectile. W. R. Nass. 2,644,364, July 7.
Casing collar for cementing wells. F. H. Lee. 2,644,526, July 7.
Casing for an electrical clock movement having a cord storage compartment. E. L. Berninger and D. L. Richards. 2,644,853, July 7.
Catalyst for packed catalytic reactor, Shaped. H. O. Mottern and W. N. Philo. 2,644,800, July 7.
Catalytic esterification process. A. C. Zettlemoyer, W. C. Walker and W. L. Stump. 2,644,839, July 7.
Catalytic hydrogenation of nitriles. G. F. Hager. 2,644,842, July 7.
Cathode-ray tube system utilizing indexing signals. W. E. Bradley. 2,644,855, July 7.
Cellulose ethers, Manufacture of. J. Downing and J. G. N. Drewitt. 2,644,818, July 7.
Cement applying apparatus. R. M. Douit and M. Radonich. 2,644,725, July 7.
Cementing apparatus, Well. F. H. Lee. 2,644,525, July 7.
Centering device. W. E. Frisk. 2,644,241, July 7.
Ceramic pigment and manufacture of same. R. F. Duncan. 2,644,767, July 7.
Chain: *See*—
Cutter chain.
Chute, Feed. A. Bassoff. 2,644,564, July 7.
Cigarette holder. C. E. Wheelock. 2,644,463, July 7.
Cigarette recaser with elevator unit and pusher mechanism. P. L. Newbold. 2,644,627, July 7.
Cigarette rest and extinguisher. W. W. Jennings. 2,644,466, July 7.
Circuit: *See*—
Electronic counting circuit.
Transistor bistable circuit.
Circuit-arrangement comprising a cathode-ray tube. P. H. De Beurs. 2,644,909, July 7.
Circuit breaker, Air. A. R. Miller. 2,644,875, July 7.
Circuit breaker, High-speed compressed-air. B. P. Baker. 2,644,876, July 7.
Circuit breaker, Rotary. A. Guillaume. 2,644,877, July 7.
Circuit for emergency relief valve of a dredge, Control. D. L. Hofer. 2,644,400, July 7.
Circuits, Coupling. M. Dishal and J. S. Le Grand. 2,644,927, July 7.
Circuits, Monostable transistor. A. W. Lo and R. P. Moore, Jr. 2,644,894, July 7.
Circuits, Monostable traosistor triggered. A. W. Lo. 2,644,895, July 7.
Circuits, Semiconductor pulse memory. J. B. Gehman. 2,644,893, July 7.
Circuits, Stabilized semiconductor amplifier. L. E. Barton. 2,644,859, July 7.
Circuits, Transistor pulse memory. J. B. Gehman. 2,644,892, July 7.
Clamp: *See*—
Automatically adjustable C clamp.
Clamp positioner. M. P. Graham. 2,644,702, July 7.
Clamp used in clamping plastic blocks together in plank construction. E. M. Wilmer and W. P. Hunter. 2,644,497, July 7.
Cleaning apparatus, Pneumatic container. J. C. Pacillo. 2,644,188, July 7.
Cleaning attachment for internal-combustion engines. M. Bailey, Sr. 2,644,440, July 7.
Clip to hold articles, Fixed resilient. W. N. Aleshin. 2,644,216, July 7.
Clock, Electric. W. A. Black. 2,644,293, July 7.
Closure remover with jaw wheels controlled by intersecting cam and radial slots. H. J. Schlageter. 2,644,354, July 7.
Cloth winding means for looms, Auxiliary. M. R. Harden. 2,644,490, July 7.
Clothes drier. K. M. Hammell and C. E. Erickson. 2,644,245, July 7.
Clothes drier lint trap. J. H. Robinson. 2,644,246, July 7.
Clothespin device. R. W. McNamee. 2,644,210, July 7.
Clutch: *See*—
Constant torque clutch.
Film sprocket clutch.
Fluid coupling clutch.
Clutch mechanism, Latch operated. E. E. Kleinschmidt. 2,644,560, July 7.
Coating mineral particles. W. A. Kaye. 2,644,772, July 7.
Coating of ammonium nitrate fertilizer. S. P. Robinson. 2,644,769, July 7.
Coating structural surfaces. J. L. Kempthorne. 2,644,771, July 7.
Coin holder. H. S. Brown. 2,644,471, July 7.
Cold coining. L. E. Rèssegger. 2,644,352, July 7.
Collapsible clothes drier. J. F. Campion. 2,644,592, July 7.
Colonic-vaginal irrigator. E. Sokolik. 2,644,451, July 7.
Color lighting control system. R. G. Williams. 2,644,912, July 7.
Combine, Self-propelled. L. E. Oberholtz and G. Allen. 2,644,284, July 7.
Combustion chamber for internal-combustion engines. K. V. Anderson. 2,644,433, July 7.
Combustion chamber having a flat wall liner with oppositely disposed apertures. R. K. Kidd. 2,644,302, July 7.
Compass, Control. G. E. Breeze and R. I. Maann. 2,644,243, July 7.
Compensated control system. F. A. Schumacher and J. B Tucker. 2,644,314, July 7.
Composite structural material. G. G. Havens. 2,644,777, July 7.
Composition for reconditioning used typewriter ribbons. J. L. Levine. 2,644,766, July 7.
Composition of matter. H. P. Averill and R. Pfanstiel. 2,644,796, July 7.
Compound combustion engine. A. C. Peterson. 2,644,295, July 7.
Compressible means for collapsible tubes. J. Pepin. 2,644,613, July 7.
Compressing or squeezing device for mops. P. Siegel. 2,644,182, July 7.
Compressor. L. K. Warrick and F. E. La Flame. 2,644,635, July 7.
Concentration and separation of granular mixtures. H. B. Cannon and D. H. Trudeau. 2,644,583, July 7.
Condenser apparatus, Atmospheric. A. Y. Preble and E. K. Hinson. 2,644,322, July 7.
Connecting well casings to liners, Method and apparatus for. C. C. Brown. 2,644,523, July 7.
Constant torque clutch. J. Rabinow. 2,644,398, July 7.
Container: *See*—
Aerial cargo landing container. Disposable bottle container. Live bait container.
Container for a plurality of vacuum bottles. C. Bramming. 2,644,578, July 7.
Containers, Making. W. B. Crawford. 2,644,198, July 7.
Continuous molding of brassières and other three-dimensional articles. F. W. Manning. 2,644,779, July 7.
Control means for coffee-making apparatus. G. V. Cabrese. 2,644,478, July 7.
Control mechanism for accounting machines. R. A. Christian and J. R. Ganger. 2,644,636, July 7.
Control mechanism for door latches. E. L. Allen. 2,644,712, July 7.
Control mechanism for outboard motors. R. C. Heldner and H. D. Palmer. 2,644,419, July 7.
Control of wool shrinkage by polyamides. I. P. Hammer and J. B. Rust. 2,644,773, July 7.
Control system. C. Yeomans. 2,644,405, July 7.
Control system for a plurality of related variables. C. H. Smoot. 2,644,642, July 7.
Conveyer, Food service. W. L. Springer. 2,644,567, July 7.
Conveyer for harvester pickups, Adjustable. B. Lemanski. 2,644,291, July 7.
Conveyer, Pitting and stuffing apparatus. M. E. Francisco. 2,644,569, July 7.
Conveyer return idler assembly, Multirubber tired adjustably spaced. S. M. Mercier. 2,644,575, July 7.
Cooler: *See*—
Milk cooler.
Cooler for refrigerator, Water. C. R. Sebens. 2,644,318, July 7.
Cooling arrangement for refrigerating apparatus. A. G. Janos. 2,644,320, July 7.
Core for coils of rope or the like, Expansible. S. T. Burke, Jr. 2,644,650, July 7.
Cork gaskets, Manufacturing. H. L. Glover. 2,644,197, July 7.
Cosmetic holder. E. H. Orenick. 2,644,577, July 7.
Cotton picker mechanism housing structure. P. J. Hulseberg and C. W. Boehm. 2,644,285, July 7.
Cotton picking machine. J. L. Nisbet. 2,644,286, July 7.
Countershaft transmission, Double. H. T. Youngren and S. V. Hettinger, Jr. 2,644,340, July 7.
Coupled products. E. C. Ladd and H. Sargent. 2,644,835, July 7.





Coupling: *See*—
Tube coupling.
Cover: *See*—
Ironing board cover.
Cover for belt conveyers, Flexible. S. M. Mercier. 2,644,574, July 7.
Cover for garment hangers. M. B. Gwinn and D. E. Hopkin. 2,644,622, July 7.
Cover means for belt conveyers. S. M. Mercier. 2,644,572, July 7.
Crane arm for trucks. W. W. Levan. 2,644,595, July 7.
Crank mechanism. H. Sebel. 2,644,345, July 7.
Crude distillation and cracking process, Combination. C. T. Harding, M. W. Mayer, and R. O. Wright. 2,644,785, July 7.
Crystal unit. J. F. Barry and D. M. Ruggles. 2,644,904, July 7.
Crystalline ferric ammonium citrate compounds. H. J. Kruse and H. C. Mounce. 2,644,828, July 7.
Cull checking system for multiple station grading or packing stands. G. C. Paxton. 2,644,576, July 7.
Cupriferous polyazo dyestuffs. H. Ruckstuhl and W. Wehrli. 2,644,812–13, July 7.
Cushion for vehicles and furniture, Floating motion. J. M. Dorton. 2,644,509, July 7.
Cushioning mechanism. H. L. Spence and D. Willison. 2,644,684, July 7.
Cutter: *See*—
Altchbone cutter.
Cutter chain. L. E. Simmons. 2,644,679–80, July 7.
Cutter having a retractable guard, Carton. A. H. Anderson. 2,644,230, July 7.
Cutting element for compositing machines or hay comminuting machines. P. W. Perry. 2,644,501, July 7.
Cutting machine, Bias. S. P. Parker and R. L. Thompson. 2,644,522, July 7.
Cutting machine, Length. H. Nelson. 2,644,520, July 7.
Cyclic fluorocarbon ethers. E. A. Kauck and J. H. Simons. 2,644,823, July 7.
Cyclooctatriene, Preparation of. L. E. Craig. 2,644,848, July 7.
Cyclooctatriene, Preparation of. L. E. Craig and I. J. Ressa. 2,644,849, July 7.
Cylinder, Feeding. L. E. Oberholtz and G. Allen. 2,644,292 July 7.
Decoration for Christmas trees. J. L. Woolven. 2,644,260, July 7.
Deflector plate. J. C. McVicker. 2,644,716, July 7.
Density meter. A. C. Redfield. 2,644,329, July 7.
Dental floss container and manipulator. M. Cohen. 2,644,469, July 7.
Denture retainer. J. E. Brennan. 2,644,231, July 7.
Developer for continuous strip of photographic paper. V. J. Forgett. 2,644,384, July 7.
Device for collating tissue paper garment patterns from stacks. A. G. Luisada. 2,644,687, July 7.
Device for controlling well flow. R. C. Baker. 2,644,527, July 7.
Device for jet propulsion through water. W. K. Coxe and W. J. Merboth. 2,644,297, July 7.
Device for maintaining different temperatures in refrigerators. C. Milliman. 2,644,319, July 7.
Device for preventing clogging in centrifugal pumps. L. J. Dawson. 2,644,403, July 7.
Device having the dual function of electromagnetic clutch and alternator. A. Brueder. 2,644,905, July 7.
Dewatering device for sand and the like. R. S. Webster. 2,644,587, July 7.
Dial indicating mechanism for measuring instruments. A. B. Dickie. 2,644,335, July 7.
Diamond bit protector. T. C. Mathews. 2,644,672, July 7.
Diffuser for air conditioning systems. G. S. Dauphinee. 2,644,389, July 7.
Di-nitrogen containing di-carboxylic acids. J. D. Spivack. 2,644,826, July 7.
Directional transmission line transducer. L. E. Norton. 2,644,928, July 7.
Dishwasher. G. B. Fox and D. A. Meeker. 2,644,473, July 7.
Disinfectant dispenser. H. L. Gordon. 2,644,167, July 7.
Disk accessory, Sanding. J. R. O'Neil, Jr. 2,644,280, July 7.
Dispenser: *See*—
Disinfectant dispenser. Soap dispenser.
Popcorn dispenser.
Dispensing machine, Coin. R. J. Labbe. 2,644,470, July 7.
Disposable bottle container. N. A. Petter. 2,644,631, July 7.
Diverter for pneumatic conveyers, Automatic. R. J. Childress. 2,644,722, July 7.
Doll, Animated motor actuated walking. A. Romano. 2,644,273, July 7.
Doll with movable members, Drinking. I. Cohn. 2,644,272, July 7.
Dolly for handling single and dual truck wheels. O. E. Lewis. 2,644,597, July 7.
Dolly, Traction motor. T. Rogatchoff. 2,644,406, July 7.
Door. R. Katz. 2,644,554, July 7.
Doorpost construction. F. A. Saaf. 2,644,555, July 7.
Door structure, Sliding. M. S. Karp. 2,644,205, July 7.
Double-ball gyro precession axis bearing. V. A. Tauscher, J. M. Slater, and J. Emmi. 2,644,727, July 7.
Drafting machine. A. L. Baker. 2,644,238, July 7.
Drain for spin basket type washing machines, Water. J. C. Worst. 2,644,326, July 7.
Drier: *See*—
Clothes drier. Collapsible clothes drier.
Drill bit and cutter, Expansible rotary. J. R. Baker. 2,644,673, July 7.
Drill bit and cutter blade, Expansible. J. R. Baker and E. H. Clark, Jr. 2,644,670, July 7.
Drill bushing. D. A. Reginibald. 2,644,350, July 7.
Drilling apparatus, Mobile. J. C. Curtis and H. F. Minnis. 2,644,669, July 7.
Drilling fluid composition. J. van Heiningen. 2,644,791, July 7.
Drive arm assembly. A. Musschoot, R. F. Bergmann, and C. M. Young, Jr. 2,644,344, July 7.
Drive-over metal cattle gate. V. M. Thede. 2,644,674, July 7.
Drive transmission for steerable tractor wheels. A. P. Balzer. 2,644,540, July 7.
Dry pipe valve. A. C. Rowley. 2,644,479, July 7.
Dust seal. R. A. Bailey. 2,644,729, July 7.
Edge binder for furniture with covered metal tops. K. E. Castle. 2,644,733, July 7.
Electrical fuel feeding system. H. C. Waterman and F. V. Kuzmitz. 2,644,300, July 7.
Electrical switch. R. A. Fryklund. 2,644,863, July 7.
Electrodeposition of a magnetic coating. T. H. Bonn and D. C. Wendell, Jr. 2,644,787, July 7.
Electrodeposition of nickel. W. J. Shenk, Jr. 2,644,788–9, July 7.
Electrokinetic angular accelerometer. E. V. Hardway, Jr. 2,644,901, July 7.
Electrokinetic device. E. V. Hardway, Jr. 2,644,900, July 7.
Electrokinetic device and electrode arrangement therefor. E. V. Hardway, Jr. 2,644,902, July 7.
Electrolytic cell. E. M. Sutherland and H. W. Albrecht. 2,644,337, July 7.
Electron beam discharge device. R. J. Bondley. 2,644,906, July 7.
Electron tube. D. F. Drieschman and E. F. Wesenberg. 2,644,907, July 7.
Electronic counting circuit. E. O. Holland. 2,644,886, July 7.
Elevator grapple. G. E. Failing. 2,644,713, July 7.
Elevator, Material. S. D. Russell. 2,644,570, July 7.
Elevator overload safety device. W. Doolan. 2,644,547, July 7.
Elevator tower assembled from prefabricated panels. T. C. North. 2,644,545, July 7.
Enclosure formed by extruded side walls having an integral flange. R. W. Ross. 2,644,602, July 7.
Engine: *See*—
Compound combustion engine.
Engine provided with duplex cooling systems, Dual jacketed. L. D. Watkins. 2,644,434, July 7.
Engine starter gearing. D. L. Miller. 2,644,338, July 7.
Engine with regulation of air distribution, Jet propulsion. J. C. Williams. 2,644,299, July 7.
Envelope opener and contents ejector, Self-contained. G. Weitzner. 2,644,634, July 7.
Exerciser and leg rest. P. F. Roberge. 2,644,688, July 7.
Extractor: *See*—
Fishbook extractor.
Fan, Reversible-flow. George A. and Glenn A. Delf. 2,644,390, July 7.
Fastener: *See*—
Locking stud type molding fastener. Three-side lock snap fastener.
Pin fastener.
Fastening device. G. A. Tinnerman. 2,644,502, July 7.
Fastening for gates, doors, and the like. G. B. Poole. 2,644,708, July 7.
Feed chute for potato chip machines. B. Stahmer. 2,644,500, July 7.
Feed delivery device for newspaper sections and the like. C. L. Rockwell. 2,644,685, July 7.
Feed mechanism for automatic firearms cartridge belt feed type. B. Maillard. 2,644,365, July 7.
Feeder: *See*—
Rotary fruit feeder. Vacuum powder feeder.
Swine feeder.
Feeder for fluid current conveyers. H. Kronstad. 2,644,724, July 7.
Feeding means for blowers. E. J. Johnston. 2,644,723, July 7.
Ferrous alloys. M. L. Eder. 2,644,747, July 7.
Fertilizer distributor. W. P. Oehler. 2,644,618, July 7.
Film magazine. A. V. L. C. Debrie. 2,644,646, July 7.
Film sprocket clutch. J. L. Pettus. 2,644,562, July 7.
Fireplace screen support. F. J. Meyer. 2,644,191, July 7.
Fish canning process and pack. H. D. Dakis. 2,644,757, July 7.
Fish holder for fishhook removal. T. O. Helgeson. 2,644,267, July 7.
Fishhook. W. H. Heki. 2,644,264, July 7.
Fishhook extractor. A. S. Klinicki. 2,644,268, July 7.
Fish lure. A. Stettner. 2,644,265, July 7.
Fishing device. R. V. Allen. 2,644,263, July 7.
Fishing line drying reel. E. S. Gniadecki. 2,644,649, July 7.
Fishing line sinker. L. F. Updegrove. 2,644,266, July 7.
Fishing reel. H. W. Denison and L. E. Johnson. 2,644,647, July 7.

Five-roll double-draft frame. J. D. Friday and W. F. Stillwell. 2,644,201, July 7.
Flasher. R. S. Perry. 2,644,899, July 7.
Flow control valve. T. R. Smith. 2,644,476, July 7.
Flowing unit for oil well controllers. P. L. McLean. 2,644,531, July 7.
Fluid bleeding apparatus. F. J. Schlemann. 2,644,548, July 7.
Fluid circulation control for fluid couplings. J. E. Becker. 2,644,304, July 7.
Fluid coupling clutch. A. L. Koup and A. A. Wagner. 2,644,535, July 7.
Fluid flow regulator. R. A. McCallum. 2,644,482, July 7.
Fluid power drive and control unit. M. J. Dikeman. 2,644,561, July 7.
Fluid pressure operated switch. W. H. Ruffle. 2,644,867, July 7.
Fluid sampling apparatus. H. C. Grant, Jr. 2,644,934, July 7.
Fluid valve. C. E. Earle and C. A. Covington. 2,644,480, July 7.
Flushing device. E. A. Ward. 2,644,472, July 7.
Flushing outboard motors, Means for. F. M. Houchin. 2,644,474, July 7.
Flying aid for piloted aircraft. S. Kellogg, 2d. 2,644,941, July 7.
Follow-up system, Electrically controlled. W. B. Moore. 2,644,426, July 7.
Foot and shoe protector. W. Stern. 2,644,249, July 7.
Football training apparatus. E. L. Perry. 2,644,334, July 7.
Forming a fin radiator assembly. C. H. Dietz. 2,644,225, July 7.
Forming films, Method and apparatus for. W. J. Bennes and C. E. Leyes. 2,644,195, July 7.
Forming fluffed filamentary masses and article produced thereby. T. R. Simkins and R. N. Jasper. 2,644,780, July 7.
Frame: *See*—
  Baking frame.
  Five-roll double-draft frame.
  Hose reel frame.
Free, coil line winder. P. P. Geraci. 2,644,048, July 7.
Frequency modulation system. M. T. Reynolds. 2,644,924, July 7.
Friedel-crafts isobutylene polymerizations in chlorofluoroalkane solution. J. S. Saylor, Jr. 2,644,809, July 7.
Fuel cleanliness determination. F. L. Jonach, J. A. Wilson, and J. J. Heigl. 2,644,330, July 7.
Furnace: *See*—
  Hearth type furnace.
Furnace with preheater, Inductively heated electrical contact. C. C. Schörg. 2,644,881, July 7.
Furniture, Convertible article of. H. Pollack and D. Brand. 2,644,506, July 7.
Furniture, Sectional article of. H. Saint-Maurice. 2,644,511, July 7.
Fuse, Cartridge. L. Detch. 2,644,871, July 7.
Fuse, Renewable. G. F. Laing. 2,644,872, July 7.
Fuze, Grenade all-ways. D. C. Knowlton. 2,644,399, July 7.
Garment bag. B. Levine. 2,644,589, July 7.
Gas lift valve. R. A. Bobo. 2,644,404, July 7.
Gas turbine fuel feed and power control device responsive to speed and air density. F. C. Mock. 2,644,513, July 7.
Gases from carbonaceous solids, Production of. C. E. Hemminger. 2,644,745, July 7.
Gasification of sulfuric acid wastes. W. H. Shiffler. 2,644,797, July 7.
Gate: *See*—
  Drive-over metal cattle gate.
Gate closing and locking mechanism for discharge outlets of car hoppers. G. B. Dorey. 2,644,408, July 7.
Gating system, Diversity. J. B. Atwood. 2,644,885, July 7.
Gear for aircraft, Landing. P. E. Mercier. 2,644,654, July 7.
Gear generating machine, Multiple spindle planetary. E. W. Miller. 2,644,388, July 7.
Gear unit, Reduction. A. S. Wheelbarger. 2,644,346, July 7.
Gearing for motorcycles, Change speed and starting. H. Behringer. 2,644,439, July 7.
Generator: *See*—
  Self-starting electrostatic generator.
  Synchronizing generator.
Germanium photocell. W. C. Dunlap, Jr. 2,644,852, July 7.
Gin pole and universal top assembly therefor. L. S. Johnson. 2,644,666, July 7.
Glove construction. L. Newbower. 2,644,164, July 7.
Gluing device, Edge. D. L. Schubert. 2,644,496, July 7.
Golf club, Adjustable. H. R. Putnam. 2,644,689, July 7.
Governor having spring rate and tension adjustment means. G. C. Fricke, E. M. Bimberg, and D. J. Schaffer. 2,644,682, July 7.
Grill, Electric. A. Valentini and T. Oertli. 2,644,880, July 7.
Grinder mechanism for cleaning brake shoes. H. Thomason. 2,644,281, July 7.
Grinding machine, Endless band. D. F. Collins, G. E. Apel, and R. W. Fuller. 2,644,278, July 7.
Grooving and flexible form installing attachment for road paving machines. G. T. Nelson. 2,644,378, July 7.
Guide for flush tank valves. J. R. Miller. 2,644,166, July 7.
Gun for perforating casing. W. E. Kanady. 2,644,519, July 7.
Gun-type flashlight holder. J. W. Johnson. 2,644,936, July 7.
Halogenation of fluorocarbons. E. T. McHee. 2,644,845, July 7.
Handle for refrigerated cabinet doors, Illuminated. J. J. Voda. 2,644,882, July 7.
Hanger: *See*—
  Skirt and trousers hanger.
Harvester reel. M. D. Henthorn. 2,644,288, July 7.
Harvester reel. H. D. Hume. 2,644,289, July 7.
Hasp. Alfred and Adalbert Lölling. 2,644,710, July 7.
Hearth type furnace. H. W. Beecher. 2,644,431, July 7.
Heat-exchange pebbles. S. P. Robinson. 2,644,799, July 7.
Heat exchanger. S. Kopp. 2,644,675, July 7.
Heater: *See*—
  Pot type engine oil heater.
Heater arrangement for steam turbine power plants, Feedwater. J. E. Downs. 2,644,308, July 7.
Helmet, Welder's. L. A. Meyer. 2,644,161, July 7.
High-speed double-action press. V. Georgeff. 2,644,417, July 7.
Hinge and gate construction. E. Gillette. 2,644,258, July 7.
Hinge, Detachable. R. E. McClellan. 2,644,192, July 7.
Hoist, Pneumatic. W. Blair. 2,644,307, July 7.
Holder: *See*—
  Cigarette holder.
  Coin holder.
  Cosmetic holder.
  Gun-type flashlight holder.
  Nursing bottle holder.
Holder and operator for hypodermic syringes. J. E. Krewson. 2,644,450, July 7.
Holder for pencils, Magnetic. A. A. Markowitz. 2,644,212, July 7.
Hood, Heat reflecting. L. W. Atchison. 2,644,736, July 7.
Hook: *See*—
  Quick-release overhead trolley conveyer hook.
Hose reel frame. D. C. Hannay. 2,644,652, July 7.
Hot and cold water mixing valve. F. H. Parker. 2,644,483, July 7.
Hot water tank. F. S. Hummel. 2,644,432, July 7.
Hydraulic control device. W. Waterman and D. A. Stark. 2,644,429, July 7.
Hydraulic power unit for operating of press elements. P. L. Paulsen. 2,644,366, July 7.
Hydraulic press control system having hydraulically operated main valve. G. F. Rohrscheib and H. L. Reynolds. 2,644,303, July 7.
Hydrocarbon oil compositions. J. E. Fields. 2,644,794–5, July 7.
Hydrogen chloride oxidation. A. J. Johnson and A. J. Chernlavsky. 2,644,846, July 7.
Hydroxylated aluminum halide polymerization catalyst. J. D. Calfee and C. A. Kraus. 2,644,798, July 7.
Ignition control device, Semiautomatic. O. Gaglio. 2,644,438, July 7.
Ignition strip for cigarettes. F. Witt. 2,644,461, July 7.
Impervious sheet with inflatable sides. W. O. James. 2,644,173, July 7.
Index file, Visible card. J. F. Foley and F. C. Gleason. 2,644,457, July 7.
Indexing work support. R. L. Hamill. 2,644,372, July 7.
Indicator: *See*—
  Visible indicator.
Indicator for refrigerators, Frost. R. J. Carbary. 2,644,422, July 7.
Inflatable pad. E. C. Champagne. 2,644,449, July 7.
Ink, Printing. A. J. Schroeder. 2,644,759–60, July 7.
Inserting single sheets into folded sheets and apparatus for performing the same. H. Dann. 2,644,686, July 7.
Instrument, Dental paralleling. V. W. Mintz. 2,644,235, July 7.
Instrument, Finger tip massaging. E. F. Vinicgra. 2,644,446, July 7.
Instrument for boring aligned holes. J. T. Castle. 2,644,348, July 7.
Instrument for measuring magnetic permeability. S. Tierney, Jr. 2,644,020, July 7.
Instrument for removing saliva. J. E. Scott. 2,644,234, July 7.
Instrument, Internal measuring. G. Bellstaedt. 2,644,239, July 7.
Instrument, Surgical. J. A. Benoit. 2,644,455, July 7.
Instrument, Well surveying. J. C. Hewitt, Jr. 2,644,242, July 7.
Insulating and medicinal pad for dental cavities. V. S. Roubian. 2,644,232, July 7.
Invertoscope for photographic cameras. L. Meditz. 2,644,383, July 7.
Iron supporting linkage. E. E. Foster. 2,644,255, July 7.
Ironing board cover. G. M. and M. W. Emmett. 2,644,257, July 7.
Irrigator. H. L. Thomas. 2,644,719, July 7.
Jet vane, Laminated. M. C. Sanz and J. Castelfranco. 2,644,296, July 7.
Juice separator. C. Harden. 2,644,393, July 7.
Knitting machine. M. Zinic and A. Miskovsky. 2,644,323, July 7.
Knitting machine, Circular. J. G. Hanes, Jr., G. S. and G. E. Campbell. 2,644,325, July 7.





Laminated-ring and multiple internal-roll mill. M. Frisch and G. C. Whitney, Jr. 2,644,643, July 7.
Latch: *See*—
  Automobile door latch.
Latch. F. J. McConnell. 2,644,706, July 7.
Latch mechanism, Door. G. Hagstrom. 2,644,704, July 7.
Latching mechanism, Dead. G. Hagstrom. 2,644,705, July 7.
Leader drain trap. L. F. Ambrosi. 2,644,585, July 7.
Lens adjusting tool. J. J. Greco. 2,644,355, July 7.
Levee building machine. C. H. Brown. 2,644,252, July 7.
Lever, Brake. G. R. Roesch. 2,644,342, July 7.
Lever mechanism, Brake. G. R. Roesch. 2,644,343, July 7.
Lifting device for the tool-carrier of agricultural machines. H. Kamplade. 2,644,339, July 7.
Lighting fixture hinge construction. G. W. Ledbetter. 2,644,556, July 7.
Line locking and margin releasing mechanism for typewriting machines. L. B. Hill and C. Walker. 2,644,566, July 7.
Lining and edge finishing machine, Combination. L. Triolo. 2,644,375, July 7.
Lining bearings with molded bushings. L. C. Miller. 2,644,199, July 7.
Liquid meter. R. Duus. 2,644,333, July 7.
Live bait container. J. E. Ormesher. 2,644,269, July 7.
Loading device, Carton. J. F. Currivan. 2,644,625, July 7.
Loading machine, Automatic crate. E. H. Britt. 2,644,026, July 7.
Lock for automobiles, Outside auxiliary door. R. H. Diesel. 2,644,709, July 7.
Lock for band saw tensioning mechanism, Safety. R. L. Crane. 2,644,492, July 7.
Locking stud type molding fastener. W. A. Bedford, Jr. 2,644,213, July 7.
Loose-leaf binder. A. O. Marsh. 2,644,456, July 7.
Low rate oil flow valve. M. A. Powers. 2,644,062, July 7.
Lubricating oil, Compounded. M. W. Hill. 2,644,792, July 7.
Luggage construction, Reinforced. O. J. Ohanian. 2,644,558, July 7.
Machine for preparing test samples of rubber and the like material. C. K. Thatten. 2,644,277, July 7.
Machine for weighing and packaging potato chips or the like. F. S. Avil. 2,644,661, July 7.
Machine for wrapping rolls of paper and the like. S. Irvine. 2,644,282, July 7.
Machine gun mount and shock absorber. A. A. Danielsen and A. P. Schleret. 2,644,366, July 7.
Machine tool. M. S. Curtis and H. Schoepe. 2,644,222, July 7.
Magnetic axis and polarity testing device. H. Duke, W. B. Greenwood, and J. Thomas. 2,644,919, July 7.
Magnetic flux direction determining apparatus. D. C. Sewell. 2,644,922, July 7.
Magnetic testing apparatus. W. J. Lewkowski, Jr. 2,644,921, July 7.
Magnetically biased fluid pressure responsive valve. G. R. King. 2,644,477, July 7.
Manually and fluid pressure operated valve. A. F. Schwendner. 2,644,485, July 7.
Marking device for strand material. E. K. Bauer. 2,644,423, July 7.
Mask, Telephone instrument. A. M. Jonban. 2,644,861, July 7.
Material handling device for punch presses. B. E. Lawson and W. E. Bullock. 2,644,521, July 7.
Material lifting and transferring apparatus. H. E. Miller. 2,644,593, July 7.
Matrix, Metal foil. F. J. Russell, Jr. 2,644,778, July 7.
Mattress construction, Spring. E. J. Hood. 2,644,174, July 7.
Metallized plastic foil. J. P. McGirr. 2,644,764, July 7.
Meter: *See*—
  Density meter.
  Liquid meter.
Micrometer caliper, Easy reading. J. A. Stedman. 2,644,240, July 7.
Microphone, Steering wheel. K. W. Small. 2,644,858, July 7.
Microscope objective. W. Klein. 2,644,043, July 7.
Microscope objective. G. Ravizza, K. Kelner, and W. Klein. 2,644,362, July 7.
Microwave frequency cavity resonator structure. S. F. Varian. 2,644,908, July 7.
Microwave polarization rotating device and coupling network. C. H. Lohrs and W. J. Tull. 2,644,930, July 7.
Milk cooler. V. A. Haines. 2,644,604, July 7.
Mill: *See*—
  Two stage hammer mill.
Milling machine, Pattern controlled. J. B. Armitage. 2,644,370, July 7.
Mine roof prop, Self-propelled. P. J. Malloy. 2,644,311, July 7.
Mineral flotation. T. E. Robbins, Jr., and W. H. Hill. 2,644,580, July 7.
Mirror apparatus, Rearview. D. E. Reed. 2,644,658, July 7.
Mirror for motor vehicles, Rearview. A. P. Capitani. 2,644,363, July 7.
Missile, Aerial. L. S. Hillman. 2,644,396, July 7.
Mode suppressor for external cavity klystron oscillators. H. A. Fluke and A. H. Sonnenschein. 2,644,889, July 7.
Modified locust bean gum, solutions thereof, and making a locust bean gum solution. N. Frisch and F. J. Sweeney. 2,644,762–5, July 7.
Mold and method for forming the bell of a bell-ended pipe. H. F. Kennison. 2,644,218, July 7.
Mop and shaker rod. J. P. Bem. 2,644,184, July 7.
Mop with detergent supply. L. Weiss. 2,644,183, July 7.
Morpholine derivatives. J. Daxl. 2,644,819, July 7.
Motor and commutating means therefor, Electronic. E. F. W. Alexanderson and S. P. Nixdorff. 2,644,910, July 7.
Motor mounting for damping torsional vibration, Outboard. F. T. Irgens. 2,644,420, July 7.
Mount for telescopic gun sights, Eccentric. F. A. Pachmayr. 2,644,237, July 7.
Mount for tool bars, Adjustable. E. G. Briscoe. 2,644,094, July 7.
Mounting apparatus for sharpening tools, blades, and the like. G. P. Stankovich. 2,644,279, July 7.
Mounting structure, Multiple head. J. L. Pettus. 2,644,856, July 7.
Mucking machine. J. K. Wilden. 2,644,596, July 7.
Multicontact semiconductor translating device. R. J. Kircher. 2,644,914, July 7.
Multiport valve. H. Mansen. 2,644,484, July 7.
Music-box cabinet. L. Arceo. 2,644,421, July 7.
N-carboanhydrides and polymers therefrom, M. M. Brubaker and R. N. MacDonald. 2,644,808, July 7.
Navigation trainer, Radio. T. P. James. 2,644,247, July 7.
Necktie dimpler. L. D. Guaschino. 2,644,163, July 7.
Needle, Knitting. L. Spencer. 2,644,324, July 7.
Nesting type store service carrier. W. C. Enders. 2,644,695, July 7.
Neutron bore-hole logging. G. Herzog. 2,644,891, July 7.
Nitriles, Production of. N. Max. 2,644,834, July 7.
Nitromalonic esters, Production of. D. I. Weisblat and D. A. Lyttle. 2,644,838, July 7.
Nozzle, Insert. C. H. Carr. 2,644,720, July 7.
Nursing bottle holder. G. S. White. 2,644,623, July 7.
Oil filling and breather pipe means for internal-combustion engines. W. B. Lang. 2,644,430, July 7.
Oil separator. H. L. Johnson. 2,644,584, July 7.
1-glycoside-5,6 dimethyl benzimidazoles and process therefor. F. W. Holly, C. H. Shunk, J. J. Cahill, and K. Folkers. 2,644,817, July 7.
1,1-disubstitution products of 2-tetralones. M. D. Soffer. 2,644,836, July 7.
Opener, Rotary drive wheel type can. R. E. McLean. 2,644,228, July 7.
Orientation mechanism. J. W. Horton and R. A. Wagner. 2,644,244, July 7.
Oven liner. A. Barnsteiner. 2,644,443, July 7.
Overdrive transmission. G. E. Flinn. 2,644,550, July 7.
Overload protective system. L. R. Crary. 2,644,563, July 7.
Oxidation of hydrocarbons. D. S. P. Roebuck. 2,644,840, July 7.
Oxidation of olefinic compounds. C. E. Schweitzer. 2,644,837, July 7.
Oxidation process for production of 2,6-naphthalic acid. G. E. Tabet. 2,644,841, July 7.
Packing composition containing polytrifluorochloroethylene and an inorganic antifriction agent. L. C. Rubin. 2,644,804, July 7.
Pad: *See*—
  Inflatable pad.
Paging device, Illuminated. M. H. Greenwald. 2,644,935, July 7.
Painting device, Sash and molding. C. W. Guimond. 2,644,186, July 7.
Palate support for smokers' pipes. J. C. Casey. 2,644,465, July 7.
Panel and manufacture, Lightweight. G. Smolak and E. F. Dyer. 2,644,781, July 7.
Panel fastening means. W. W. Cushman. 2,644,553, July 7.
Paper-box covering machine. L. Schwab. 2,644,374, July 7.
Paper making process utilizing modified locust bean gum. N. Frisch and F. J. Sweeney. 2,644,749–52, July 7.
Parachute, Including a regulated air passage. P. W. and F. Zbock. 2,644,656, July 7.
Parallelogram mounted carrier for cultivator tools. H. Kamplade. 2,644,387, July 7.
Parenteral aureomycin in anhydrous form. J. F. Weidenheimer and L. Ritter. 2,644,783, July 7.
Pasteurizing methods and apparatus. J. A. Cross. 2,644,758, July 7.
Pasting machine, Wallpaper. H. A. Bixby. 2,644,424, July 7.
Paving machine. C. A. Lowe. 2,644,379, July 7.
Pebble testing method and apparatus. S. P. Robinson and R. R. Goins. 2,644,328, July 7.
Pepsinogen and pepsin, Preparation of. E. P. Kennedy and M. D. Grossnickle. 2,644,784, July 7.
Phonograph, Automatic. E. A. Ebert. 2,644,565, July 7.
Photographic process for forming a positive transfer image. E. H. Land. 2,644,756, July 7.

Photographic product for carrying out a one-step photographic process. O. E. Wolff and M. N. Fairbank. 2,644,755, July 7.
Picker mechanism for looms, Pneumatically operated. C. G. Scott. 2,644,489, July 7.
Pin fastener. L. D. Sumner. 2,644,211, July 7.
Pipe: *See*—
Smoking pipe.
Piston and rod connection. R. W. Doeg. 2,644,731, July 7.
Piston rod seal. F. S. Flick. 2,644,701, July 7.
Pitch changing device for musical instruments. W. E. Smith. 2,644,360, July 7.
Plank, Metal. A. S. MacDonald. 2,644,552, July 7.
Platform for connecting the contiguous sections of articulated vehicles. G. Chiapella. 2,644,714, July 7.
Plug: *See*—
Vent plug.
Plug and wrench, Shorting. G. A. Kumpf. 2,644,929, July 7.
Plunger with wiping fingers. H. S. and P. L. Lazarus. 2,644,181, July 7.
Plural motor hydraulic device for controlling the movements in machines and apparatus for washing, filling, stoppering, capsuling, and labeling bottles. R. Détrez. 2,644,310, July 7.
Polyvinyl acetal resins. H. S. Bloch. 2,644,807, July 7.
Popcorn dispenser. K. Tanko and W. L. Slomiaski. 2,644,614, July 7.
Posture correcting machine. H. E. Sanders. 2,644,447, July 7.
Pot type engine oil heater. P. Altmán and L. D. Bakke. 2,644,544, July 7.
Pouring apparatus for filtering operations. G. H. Clevenger and L. A. Creglow. 2,644,743, July 7.
Power-operated, gear-controlled multiple socket wrench. H. E. Farmer. 2,644,337, July 7.
Power supply system, Regulated high-voltage. J. P. Smith. 2,644,917, July 7.
Precipitation of nonvolatile substances in distillation of Fischer-Tropsch synthesis mixtures. C. S. Carlson, F. A. Biribauer, and C. E. Porter. 2,644,786, July 7.
Preconditioning hydrocarbon synthesis catalyst. J. P. Hogan. 2,644,829, July 7.
Prepsring a fertilizer containing water-insoluble nitrogen. M. A. Kise. 2,644,806, July 7.
Press: *See*—
High-speed double-action press.
Pressing machine, Garment. R. M. Schultz. 2,644,254, July 7.
Pressure responsive mercury switch. W. J. and H. E. Turnupseed. 2,644,866, July 7.
Pressurized chamber for air-cooled engines. C. F. Bachle. 2,644,541, July 7.
Procesa and product of producing hydrocarbon drying oils. H. S. Bloch and A. E. Hoffman. 2,644,847, July 7.
Producing dextran products having substantially uniform molecular size for pharmaceutical and therapeutic preparations. A. J. T. Grönwall and B. G. Ingelman. 2,644,815, July 7.
Producing preassembled nuts and washers, Means for and methods of. M. H. Nielsen. 2,644,178, July 7.
Producing simulated-brick siding boards, Method of and means for. J. E. Miller. 2,644,768, July 7.
Producing test specimens of concrete for pressnre tests. S. Thanlow. 2,644,220, July 7.
Projectile control system. L. Katz. 2,644,397, July 7.
Projection plotting lens and optical system. E. H. Birdsall. 2,644,361, July 7.
Proportioning control system. A. Clarkson. 2,644,641, July 7.
Propulsive thrust augmenter. R. C. McLeod and K. Watson. 2,644,208, July 7.
Protector: *See*—
Diamond bit protector. Foot and shoe protector.
Pulse amplitude responsive selective system. E. A. Ericsson, E. W. Hullegård, and A. C. Jacobaeus. 2,644,932, July 7.
Purification of antibiotics with water insoluble carboxylic acids. W. A. Lott, W. Braker, and A. E. O'Keeffe. 2,644,816, July 7.
Queen and drone trap. C. H. Pease. 2,644,175, July 7.
Quick-opening valve. B. C. Christensen. 2,644,486, July 7.
Quick-release overhead trolley conveyer hook. H. J. McCormick. 2,644,407, July 7.
Ramp, Platform. R. W. Eycleshimer. 2,644,180, July 7.
Razor blade magazine. E. J. Gray. 2,644,576, July 7.
Razor, Quick-opening. J. Muros. 2,644,229, July 7.
Reactor for high-temperature cracking. K. T. Hartwig and C. H. Watkins. 2,644,744, July 7.
Receptacle: *See*—
Waste receptacle.
Reciprocating doctor blade mechanism. H. E. Peyrebrune, R. B. Pasquinelli, and B. L. Sites. 2,644,395, July 7.
Recording and reproducing sound. E. A. Pierre. 2,644,837, July 7.
Recording device. G. F. Gardner. 2,644,738, July 7.
Reel: *See*—
Fishing reel. Harvester reel.
Fishing line drying reel.
Reeling machine, Silk. G. S. Beckman. 2,644,200, July 7.
Refining steel with pure oxygen. H. Hauttmann. 2,644,746, July 7.
Refrigerating storage apparatus. H. D. Haywood. 2,644,317, July 7.
Regulator: *See*—
Fluid flow regulator.
Regulator and current control device for automotive vehicles, Voltage. L. E. Sevison. 2,644,869, July 7.
Reinforced flexible conduit. F. S. Schindler and R. K. Titus. 2,644,487, July 7.
Resilient suspension and shock absorbing device for vehicles, Combined pneumatic and hydraulic. A. H. and S. H. A. Welertz. 2,644,699, July 7.
Reversing and leveling means for two-way plows. T. Brown. 2,644,385, July 7.
Reviving pictures and the resultant articles. P. C. Goetz. 2,644,261, July 7.
Road treating machine. G. E. Hawkins. 2,644,377, July 7.
Rock drilling bit. M. D. Ingram. 2,644,671, July 7.
Rod: *See*—
Mop and shaker rod.
Roller device for moving loads. H. R. Pohle. 2,644,691, July 7.
Roller for lawn mowers, Auxiliary. R. L. Andrew. 2,644,266, July 7.
Roller supporting cage for roller bearings. J. Levine. 2,644,730, July 7.
Roofing tiles and the like, Method of and apparatus for the manufacture. G. W. A. Agar. 2,644,217, July 7.
Rotary fruit feeder. L. A. Wells. 2,644,568, July 7.
Rotary intaglio doctor mechanism. C. A. Harless. 2,644,394, July 7.
Rotor blade, Spar type. D. N. Meyers. 2,644,537, July 7.
Rotor for fluid transferring devices, Self-sealing. I. H. Lehman. 2,644,402, July 7.
Rotor with blade stabilizing weights, Air displacement. B. Kelley. 2,644,536, July 7.
Router with adjustably mounted drill for stereotype plates. C. C. Baker. 2,644,371, July 7.
Routing machine for removing defects from wood. E. V. Bennett and H. Renn. 2,644,495, July 7.
Rule, Cuff. J. L. Pallos. 2,644,236, July 7.
Rust inhibiting composition. H. W. Rudel and M. Gargisa. 2,644,793, July 7.
Safety mechanism or control for elevators. W. Doolan. 2,644,546, July 7.
Safety switch. H. A. Locey. 2,644,868, July 7.
Safety system for luminescent tubes. R. C. Hultgren. 2,644,911, July 7.
Saltcellar. N. A. Gordon. 2,644,616, July 7.
Saw blade, Smoothing. A. E. Lundberg. 2,644,494, July 7.
Sawhorse, Collapsible. W. E. Miller. 2,644,726, July 7.
Saw machine, Tiltable band. D. Abraham. 2,644,491, July 7.
Saw swage, Single lever. D. Daboll. 2,644,347, July 7.
Schlieren cathode-ray light modulator with modulating liquid on concave mirror. M. Hetzel, F. A. Mast, and H. E. W. Thiemann. 2,644,038, July 7.
Screen for a television apparatus or the like, Manufacture of a. M. Auphan. 2,644,208, July 7.
Screw machinery, Automatic. D. Abrahamsen. 2,644,340, July 7.
Seal. T. Frankel. 2,644,711, July 7.
Sealing joints in pressure containers, Means for. K. E. Stuart. 2,644,611, July 7.
Seat for windows and table structure, Combined safety. E. M. and M. E. Gutman. 2,644,507, July 7.
Seat height adjusting means, Bicycle. M. Vick. 2,644,504, July 7.
Seat structure, Automobile. J. M. Dorton. 2,644,505, July 7.
Seating surface for chairs, Resilient. B. R. Weill. 2,644,508, July 7.
Selenium rectifier and its production. E. A. Thurber and L. A. Wooten. 2,644,915, July 7.
Self-starting electrostatic generator. N. H. Lehrer. 2,644,903, July 7.
Semiconductor amplitude modulation system. L. L. Koros. 2,644,925, July 7.
Separator: *See*—
Juice separator. Oil separator.
Servomechanism for use in steering gears and the like, Power-operated. R. S. Ford. 2,644,428, July 7.
Servo system. H. B. Sedgfield, F. A. Summerlin, and G. H. Kyte. 2,644,427, July 7.
Sewing machine, Shoe. F. Ashworth. 2,644,412, July 7.
Sewing machine with drive and support therefor. G. B Sauer and A. M. Schweda. 2,644,414, July 7.
Shade, Spring-held decorative. L. W. Schoenherr. 2,644,883, July 7.
Shaper cutting gears. W. S. Praeg. 2,644,367, July 7.
Shedding mechanism for looms. E. Pfarrwaller. 2,644,488, July 7.
Shelf arrangement, Library. C. S. Brown. 2,644,588, July 7.
Shelving and partition support. R. F. McMahan. 2,644,591, July 7.





Shield for welders, Face and eye protective. J. H. Jacobs. 2,644,159, July 7.
Shield with offset lenses, Welding. J. H. Jacobs. 2,644,160, July 7.
Ship construction, Welded. G. Allegro. 2,644,418, July 7.
Shoe sole, Laminated. J. A. Clalo. 2,644,250, July 7.
Shoes with flanged insoles, Making lasted. A. E. Kleven. 2,644,179, July 7.
Shovel, Hoist. J. G. Salido. 2,644,253, July 7.
Side bars for mill wagons, Pivoted. H. A. Sammis. 2,644,715, July 7.
Sifter, Flour. T. F. Humphreys. 2,644,581, July 7.
Silencer with plural expansion chambers and outlet conduits. R. H. Bourne. 2,644,542, July 7.
Skate, Roller. E. Kahlert. 2,644,692, July 7.
Skirt and trousers hanger. F. J. Urban. 2,644,621, July 7.
Sling, Foot. G. W. Jardine. 2,644,448, July 7.
Slurry handling device for seed treating machines. M. W. Guyer and O. C. Calkins. 2,644,676, July 7.
Smoking pipe. E. E. Lancaster. 2,644,404, July 7.
Snap switch. R. H. Bentley. 2,644,805, July 7.
Snow track for motor vehicles. A. Gazda. 2,644,539, July 7.
Soap dispenser. G. H. Packwood, Jr. 2,644,615, July 7.
Socket assembly, Snap fastener. H. S. Van Buren, Jr. 2,644,215, July 7.
Sodium silicate glasses, Process and charge for manufacturing. R. C. Danison. 2,644,742, July 7.
Sofa seat and bed, Combined. A. Lorenz and H. Nock. 2,644,171, July 7.
Spinning solutions comprising an acrylonitrileallyl alcohol copolymer. A. Cresswell. 2,644,803, July 7.
Spirally wound corrugated welded tubing. D. P. Schwester. 2,644,879, July 7.
Spout assembly, Liquid delivery. S. E. Schroeder. 2,644,630, July 7.
Spout cap for lighter fuel containers. H. Y. Lee. 2,644,608, July 7.
Spray device for liquids, thermoplastics, molten metal or the like. W. Kopperschmidt. 2,644,717, July 7.
Spring and hydraulic loading means for vehicles, Convertible. R. O. Bill. 2,644,696, July 7.
Spring sash balance. A. W. Anderberg. 2,644,193, July 7.
Spring valve jig. Y. Unal. 2,644,227, July 7.
Sprinkling apparatus. J. O. Richard. 2,644,718, July 7.
Stabilizer for alternating current power transmission systems. E. F. W. Alexanderson and R. W. Kuenning. 2,644,898, July 7.
Stacking pole, Peanut vine. J. M. Miller. 2,644,466, July 7.
Stand and tray, Folding. W. C. Baxter. 2,644,590, July 7.
Stand for dress forms and the like. R. F. Palmer. 2,644,620, July 7.
Stand for flatirons, Retractable. F. E. Finlayson. 2,644,256, July 7.
Steering aircraft with rotary wings, Means for. F. Maillard, A. Laville, and J. Cantinieau. 2,644,533, July 7.
Steering mechanism for motor vehicles and the like. K. Rabe. 2,644,341, July 7.
Stop motion for textile machines. P. N. Smith. 2,644,221, July 7.
Stopper, Bottle. R. G. Beacham. 2,644,453, July 7.
Strap joint-forming mechanism. W. C. Childress and A. I. Ericsson. 2,644,356, July 7.
Structure for tractors, Operator's station. E. F. Jirsa. 2,644,538, July 7.
Suction cleaner casing assembly. R. L. Brown and J. E. Vance. 2,644,190, July 7.
Sulfide coating. J. E. Baxter. 2,644,774, July 7.
Sulfite waste treatment process. G. L. Cunningham. 2,644,748, July 7.
Sulfonated aryl acetylene resins. G. F. D'Alelio. 2,644,801, July 7.
Sulfurization of oxygenated aliphatic compounds. H. S. Beretvas. 2,644,811, July 7.
Sulfurizing esters. H. S. Beretvas. 2,644,810, July 7.
Sulfurizing fats and fatty acids. H. S. Beretvas. 2,644,825, July 7.
Supersensitized photographic silver halide emulsions. J. J. Jennen and O. H. Vandenbroele. 2,644,754, July 7.
Supervisory control system. W. A. Derr and M. E. Reagan. 2,644,931, July 7.
Support: *See*—
Fireplace screen support. Tray support.
Indexing work support. Waler support.
Shelving and partition support.
Support and handle for cameras and synchronizers. S. Mendelsohn. 2,644,381, July 7.
Support for cameras and synchronizers, Adjustable. S. Mendelsohn. 2,644,380, July 7.
Support for storm windows. H. L. Mitts. 2,644,659, July 7.
Surge suppressor. W. G. Stone. 2,644,913, July 7.
Swine feeder. G. L. Hazen. 2,644,425, July 7.
Switch: *See*—
Battery switch. Pressure responsive mercury switch.
Electrical switch.
Fluid pressure operated switch. Safety switch.
Snap switch.
Switch construction. S. I. Lindell. 2,644,878, July 7.
Switch for high-frequency power, Electronic. A. A. Varela. 2,644,926, July 7.
Switch governor having perpendicularly pivoted insertable weights. E. S. Tamm. 2,644,683, July 7.
Switch heater controller. W. M. White, Jr. 2,644,657, July 7.
Switch of the mercury type, Electric. I. E. McCabe. 2,644,870, July 7.
Synchronizing generator. A. E. Wolfe, Jr. 2,644,887, July 7.
System for controlling the movements of hydraulically operated pistons. R. Détrez. 2,644,309, July 7.
System for the electromagnetic spotting of movable targets. H. G. de France. 2,644,946, July 7.
System for the supply of conditioned air in aircraft. A. W. H. Jamieson. 2,644,315, July 7.
Table and easel combination. L. L. Westeamp. 2,644,732, July 7.
Tandem axle suspension construction. R. F. Thornton. 2,644,698, July 7.
Tank: *See*—
Auxiliary fuel supply tank. Hot water tank.
Tank facility, Storage. J. T. Roberts. 2,644,612, July 7.
Tape guide, and presser for tape recorders, and the like. F. K. Krag. 2,644,690, July 7.
Tappet, Self-adjusting. C. E. Johnson. 2,644,437, July 7.
Telemetering apparatus, Multichannel. R. H. Peterson and H. S. Broadwell. 2,644,933, July 7.
Television carrier control system. A. V. Bedford. 2,644,042, July 7.
Television receiver, Color. G. C. Szikiai. 2,644,854, July 7.
Tetraethyllead, Manufacture of. C. M. Neher, F. L. Padgitt, and P. E. Welmer. 2,644,827, July 7.
Tetrafluoroethylene polymer compositions containing polyorganosiloxane lubricants. J. F. Lontz. 2,644,802, July 7.
Textile roll assembling and disassembling apparatus. R. R. Elliott, Sr. 2,644,226, July 7.
Thermocouple. K. W. Tapke. 2,644,851, July 7.
Thermostat, High-temperature bimetal. N. Miller. 2,644,874, July 7.
Thermostatic and circuit breaker device. K. E. Vroom and E. De F. Tidd. 2,644,873, July 7.
Thermostatic control device. S. G. Eskin and A. M. Arkelyan. 2,644,640, July 7.
Three-side lock snap fastener. H. S. van Buren, Jr. 2,644,214, July 7.
Tile, Interlocking roofing. F. L. Weber. 2,644,410, July 7.
Tiller, Rotary soil. J. H. Sutton. 2,644,386, July 7.
Timer, Group controlled electric. J. Hertrich. 2,644,518, July 7.
Toaster. C. J. Foster. 2,644,392, July 7.
Tobacco treatment. W. G. Frankenburg. 2,644,462, July 7.
Tool: *See*—
Lens adjusting tool. Machine tool.
Tool assembly, Diamond. J. Loecy, Jr. 2,644,442, July 7.
Tool for gear shaping, Cutting. W. S. Praeg. 2,644,223, July 7.
Toolholder. A. E. Chilcott and W. F. Grier. 2,644,224, July 7.
Torque compensator, Automatic. H. T. Jensen. 2,644,534, July 7.
Towel or lady's band, Sanitary. J. K. Morhard. 2,644,454, July 7.
Toy, Ball and runway. M. P. Marong. 2,644,270, July 7.
Toy glider and launching platform. W. J. Shapiro. 2,644,271, July 7.
Toy, Walking horse. M. Seligman. 2,644,248, July 7.
Traction means for pneumatic tired wheels. W. H. Paske. 2,644,503, July 7.
Tractor-trailer fifth wheel coupling mechanism. W. J. Geddert. 2,644,693, July 7.
Transistor bistable circuit. A. W. Lo. 2,644,896, July 7.
Transistor ring counter. A. W. Lo. 2,644,897, July 7.
Trap: *See*—
Clothes drier lint trap. Queen and drone trap.
Leader drain trap.
Tray support. C. W. Dudley. 2,644,660, July 7.
Treating materials of different specific gravities, Method and apparatus for. E. Harvengt. 2,644,582, July 7.
Treating products, including destroying insect life, disintegrating, cleaning, and separating, Method and apparatus for. R. R. Dodds, A. N. Hibbs, and J. D. Napier. 2,644,740, July 7.
Treatment of rubber. W. M. Morgan. 2,644,850, July 7.
Trolley conveyer bracket. J. B. and J. C. Webb. 2,644,571, July 7.
Trolley pole. C. G. A. Johnson, Jr. 2,644,862, July 7.
Truck for banana bunches, Lifting and handling. R. M. Winslow. 2,644,598, July 7.
Truck for use with shaking conveyers, Conveyer-propelled supply. J. F. Joy. 2,644,573, July 7.
Tube: *See*—
Bourdon tube. Electron tube.
Tube coupling. G. V. Woodling. 2,644,700, July 7.
Tubing and well tool coupling. R. C. Baker. 2,644,524, July 7.
Turbine, Ram jet. H. Karlby. 2,644,301, July 7.
Twine knotter. C. S. Rudeen. 2,644,703, July 7.
Two stage hammer mill. W. W. West. 2,644,644, July 7.
2,3-bis-(oxybenzyl)-butane derivatives. I. A. Pearl. 2,644,822, July 7.
Umbrella tip. R. H. Morton. 2,644,475, July 7.

Under reaming device. E. L. Carpenter. 2,644,668, July 7.
Upholstery supporting means and using the same. S. Benmax. 2,644,510, July 7.
Vacuum powder feeder. F. E. Stirn and A. S. Taylor. 2,644,617, July 7.
Vacuum stack for milk driers, Forced draft. G. E. Shaw. 2,644,391, July 7.
Valve: *See*—
- Automatic fluid transfer valve.
- Dry pipe valve.
- Flow control valve.
- Fluid valve.
- Gas lift valve.
- Hot and cold water mixing valve.
- Low rate oil flow valve.
- Magnetically biased fluid pressure responsive valve.
- Manually and fluid pressure operated valve.
- Multiport valve.
- Quick-opening valve.
- Unloading valve.

Valve. G. Hansen. 2,644,664, July 7.
Valve actuating mechanism. M. J. Berlyn. 2,644,436, July 7.
Valve of molded resilient material, One-piece check. K. A. Klingler. 2,644,663, July 7.
Vanillimino ethyl ether and its salts of anhydrous acids. L. A. Pearl. 2,644,830, July 7.
Vending machine, Beverage. C. Gabrielsen. 2,644,734, July 7.
Vending machine with dual conveyers arranged for alternate delivery, Package. F. N. James. 2,644,735, July 7.
Vent plug. C. D. Foss. 2,644,609, July 7.
Vial, Medicament. F. E. Brown. 2,644,452, July 7.
Vibration isolating means for sewing machines. G. Sauer. 2,644,413, July 7.
Vibration mode analyzer. S. J. Loring. 2,644,331, July 7.
Visible Indicator. F. L. Ebel and A. J. Maisey. 2,644,939, July 7.
Voltage doubler. M. Iloyaux. 2,644,918, July 7.
Wagon unloader. V. J. Komuchar and J. E. Gammie. 2,644,594, July 7.
Waler support. C. I. Williams. 2,644,219, July 7.
Wall box and bracket. C. G. Senlf. 2,644,600, July 7.
Wall structure, Wood. H. R. Davis. 2,644,204, July 7.
Waste fitting. R. E. Russell. 2,644,543, July 7.
Waste receptacle. H. G. Davis. 2,644,737, July 7.
Watch, Alarm wrist. R. Ditlshelm. 2,644,294, July 7.
Water cooling arrangement for refrigerators. H. A. Wyman, Jr. 2,644,316, July 7.
Water curtain projecting device for use with sand blasting apparatus. J. Hoguet. 2,644,275, July 7.
Water-insoluble monoazodyestuffs. E. Fischer. 2,644,814, July 7.
Wattmeter, Thermocouple. E. C. Gregg, Jr. 2,644,023, July 7.
Wax slabbing method. A. J. Bevevino. 2,644,196, July 7.
Wax winding and slabbing device. A. J. Bevevino. 2,644,645, July 7.
Weight distribution testing apparatus. S. S. Ulrich. 2,644,332, July 7.
Well apparatus, Cushioned gas-operated. R. C. Baker. 2,644,529, July 7.
Well apparatus with expansion retarding device, Gas-operated. R. C. Baker. 2,644,530, July 7.
Wheel ornamental trim ring construction, Vehicle. R. S. Grimshaw. 2,644,721, July 7.
Wheel structure, Reversible castering. W. R. Peterson. 2,644,697, July 7.
Winding apparatus, Paper tube. J. H. Raymond. 2,644,376, July 7.
Window, Awning type. M. Hoffman. 2,644,206, July 7.
Window structure. E. A. Westman. 2,644,557, July 7.
Window wiper. J. P. Lacy. 2,644,187, July 7.
Windrower, Detachably mounted counterbalanced. L. E. Oberholtz. 2,644,287, July 7.
Work guide for sewing machines. W. D. Harrod. 2,644,411, July 7.
Wrench: *See*—
- Power-operated, gear-controlled multiple socket wrench.

Wrench for tubes and pipes, Safety. L. C. Osborn. 2,644,358, July 7.
Wrench having swiveled grip sleeve, Socket. J. E. Lydle. 2,644,359, July 7.
Zinc, Production of. S. E. Woods and B. G. Perry. 2,644,312, July 7.


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NOTE.—First number = class, second number = subclass, third number = patent number

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56: 2,644,795
182: 2,644,796
373: 2,644,797
429: 2,644,798
455: 2,644,799

252— 463: 2,644,800
253—39.15: 2,644,665
254— 139: 2,644,666
193: 2,644,667
255— 19: 2,644,668
51: 2,644,669
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72: 2,644,672
76: 2,644,673
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257— 239: 2,644,675
259— 45: 2,644,676
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29.6: 2,644,803
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73: 2,644,807
78: 2,644,808
85.3: 2,644,809
97.5: 2,644,810
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209: 2,644,815
210: 2,644,816
211.5: 2,644,817
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247.1: 2,644,819
249.7: 2,644,820
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340.9: 2,644,822
345.1: 2,644,823
372: 2,644,824
399: 2,644,825
404.5: 2,644,826
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439: 2,644,828
449.6: 2,644,829
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465.1: 2,644,834
465.7: 2,644,835
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659: 2,644,846
666: 2,644,847
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763: 2,644,850
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262— 33: 2,644,679
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263— 34: 2,644,681
264— 3: 2,644,682
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273— 79: 2,644,689
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296— 1: 2,644,714
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2,644,902
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8.2: 2,644,904
78: 2,644,905
311— 38: 2,644,732

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312— 97: 2,644,734
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237: 2,644,736
270: 2,644,737
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249: 2,644,907
315— 6: 2,644,908
21: 2,644,909
168: 2,644,910
187: 2,644,911
191: 2,644,912
248: 2,644,913
317— 236: 2,644,914
241: 2,644,915
318— 138: 2,644,916
321— 2: 2,644,917
15: 2,644,918
324— 34: 2,644,919
2,644,920
38: 2,644,921
47: 2,644,922
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332— 27: 2,644,924
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98: 2,644,930
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183: 2,644,933
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321: 2,644,935
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345: 2,644,937
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373: 2,644,939
343— 7.3: 2,644,940
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346— 76: 2,644,738
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## CLASSIFICATION OF DESIGNS

D 3—13: Des. 169,968
Des. 169,971
19: Des. 169,969
25: Des. 169,964
Des. 169,966
Des. 169,987
Des. 169,988
D 7— 7: Des. 169,956

D 9— 2: Des. 169,983
D14— 3: Des. 169,982
D16— 2: Des. 169,960
D21— 6: Des. 169,993
D22— 2: Des. 169,967
D25— 1: Des. 169,977
D33— 8: Des. 169,991
D34— 5: Des. 169,979

D34—15: Des. 169,976
D44— 6: Des. 169,966
D45—19: Des. 169,997
D47— 7: Des. 169,990
D48— 4: Des. 169,985
20: Des. 169,965
Des. 169,974
Des. 169,975

D48—20: Des. 169,968
23: Des. 169,972
24: Des. 169,981
D57— 1: Des. 169,995
D58— 6: Des. 169,958
Des. 169,959
8: Des. 169,957
17: Des. 169,970

D58—26: Des. 169,994
D62— 2: Des. 169,984
D67— 3: Des. 169,961
Des. 169,978
D71— 1: Des. 169,962
D74— 1: Des. 169,989
5: Des. 169,963
21: Des. 169,980

D80— 9: Des. 169,973
D83— 1: Des. 169,996
D92— 1: Des. 169,992

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# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

BROWN & BIGELOW v. EUGENE DIETZGEN CO.

*No. 5960. Decided April 15, 1953*

[—F.2d—: —USPQ—]

1. TRADE-MARKS—OPPOSITION—OPPOSER HAS NO EXCLUSIVE RIGHT TO "REDI" AS A PREFIX.

*Held* that although the validity of the appellants' registrations is not in question, they are not entitled to establish a monopoly upon the use of "Redi" as a prefix and thereby prevent others from using it in a trade-mark otherwise registrable upon goods differing in character from the goods of the appellant.

2. SAME—CONFUSION OF THE PUBLIC—"REDIRULE" COMPARED WITH "REDIPOINT" AND "REDILITE."

*Held* that "Redirule" does not so resemble either "Redipoint" or "Redilite" as to cause confusion, mistake or to deceive purchasers who possess ordinary intelligence, with respect to origin, when applied to the applicant's slide rules.

APPEAL from Patent Office, Opposition No. 28,894.

AFFIRMED.

*Almon S. Nelson* for appellant.

*Spencer, Johnston, Cook & Root, Junius F. Cook, Jr.*, and *Lloyd C. Root* for appellee.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Assistant Commissioner (92 USPQ 228), acting for the Commissioner, reversing the decision of an Examiner of Trade-Mark Interferences in a trade-mark opposition proceeding.

The application of appellee is for the registration on the Principal Register established by the Trade-Mark Act of July 5, 1946, 15 U. S. C. 1051 (hereinafter referred to as the Lanham Act) of "REDI-RULE" as a trade-mark for slide rules. The application, Serial No. 531,452, was filed in the Patent Office August 15, 1947. First use of the word as a trade-mark was alleged to have been "on or about July 29, 1944." There is, therefore, no claim by appellee that section 2(f) of the Lanham Act is applicable here.

Appellant's notice of opposition was filed October 3, 1949. Therein, appellant pleaded ownership of several registered marks for different products having "REDI" as a prefix. Five of such registrations bear filing dates subsequent to the filing date of the application of appellee, and in no one of the five is there an allegation of use on the product named therein earlier than July 29, 1944, the date alleged by appellee of first use of its notation. In each of the five, the statement is made that appellant owned the two earlier registrations pleaded, but that does not render the five pertinent as a basis of opposition.

The first of the two registrations of appellant, which antedate the application of and date of first use by appellee, was that of "REDIPOINT," Registration No. 144,356. It was registered July 5, 1921 under the act of February 20, 1905, as a trade-mark for "magazine-pencils," upon an application, Serial No. 116,831, filed March 24, 1919, in which first use was alleged "on or about November 1, 1917." It was renewed to appellant, which is a corporation of Minnesota, July 5, 1941, and was republished by it under the Lanham Act February 24, 1948.

The second early registration of appellant was that of "REDILITE," Registration No. 266,667. It was registered January 28, 1930, under the February 20, 1905 act, as a trade-mark for "Pyrophoric Cigar Lighters" upon an application, Serial No. 283,713, filed May 9, 1929, use being alleged "since April 1, 1929." It was republished under the Lanham Act February 24, 1948, and renewed January 28, 1950.

From the foregoing statement of facts it is apparent that at an early date appellant selected as trade-marks for certain articles of merchandise words having a misspelled, or phonetically spelled, prefix meaning "ready," which must have been intended to be descriptive of the articles whose character was indicated by the suffix. Thus, "Redipoint" applied to pencils obviously means pencils having a point ready for use, and "Redilite" ("lite being a phonetic spelling, or a misspelling, of "light") which, when applied to a pyrophoric cigar lighter, means a device ready for use in spontaneously igniting a cigar.

[1] The validity of appellant's registrations is not in question here, but we do not think they are entitled to establish a monopoly upon the use of "Redi" as a prefix and thereby prevent others from using it in a trade-mark otherwise registrable upon goods differing in character from the goods of appellant and, certainly, we are unable to discern any similarity in appearance, or use between pencil

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points and cigar lighters on the one hand and slide rules on the other. The fact that slide rules may be used as guides in drawing lines with pencils is not, in our opinion, an association which creates a resemblance such as the Lanham Act contemplates, nor does the fact that the goods of the respective parties may be sold in the same stores have any particular relevance upon the question of resemblance.

"Redl" is not a coined term having an arbitrary meaning peculiar to appellant's products.

The phraseology of the Lanham Act here pertinent reads:

> No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the Principal Register on account of its nature unless it—
>
> • • • • • • •
>
> (d) Consists of or comprises a mark which so resembles a mark registered in the Patent Office • • •, as to be likely, when applied to the goods of the applicant, to cause confusion or mistake or to deceive purchasers. • • •.

The "confusion" or "mistake" or "deception" so referred to, of course, has reference to origin.

[2] In our opinion, "Redirule" does not so resemble either "Redipoint" or "Redilite" as to cause confusion, or mistake, or to deceive purchasers who possess ordinary intelligence, with respect to origin, when applied to the applicant's (appellee here) slide rules.

The decision of the Assistant Commissioner is affirmed.

AFFIRMED.

O'CONNELL, J., dissents.

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## U. S. Court of Customs and Patent Appeals

IN RE VILLESVIK

*No. 5926. Decided March 11, 1953*

[202 F.2d 788; 97 USPQ 149]

1. PATENTABILITY — PARTICULAR SUBJECT MATTER — DESIGN FOR RAKER AND JOINTER TOOL.

Appellant's application for design patent on a raker and jointer tool *Held* properly rejected as failing to show invention over tools in the art.

APPEAL from the Patent Office. Serial No. D–144,922.

AFFIRMED.

*Harold L. Stults* (*Miles D. Pillars, Marshall M. Holcombe,* and *Curtis, Morris & Safford* of counsel) for appellant

*E. L. Reynolds* (*S. W. Cochran* of counsel) for the Commissioner of Patents.

O'CONNELL, J.:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner who rejected, as unpatentable over the prior art, appellant's application for a patent on a design for a raker and jointer tool.

The single claim in issue reads:

> The ornamental design for a Raker and Jointer Tool or similar article substantially as shown.

The references are: Bickerstaff, 504,656, Sept. 5, 1893; Richardson, 580,508, Apr. 13, 1897; Higbee, 1,003,904, Sept. 19, 1911.

Appellant during the prosecution of his application described, in part, the subject matter of the appealed claim as follows:

> This tool is used in connection with jointing the cutting teeth on pulp and buck saws and also gauging the correct height of the raker teeth as compared with the cutting teeth on saws having raker teeth. When used as a jointer tool a smooth file, is clamped in the slot by the thumb screw shown. When used as a raker tooth gauge the thumb screw is loosened and the file is removed and the tooth edge of the saw blade is positioned in the slot.

The letter of the Examiner, with whose views and conclusion the Board concurred, contained these pertinent remarks:

> Applicant has disclosed herein a device used in setting and sharpening the teeth of a saw. Both the patent and publication references show devices which are not unlike the present tool. Specifically, the Disston raker gages of the publication reference are of substantially the same configuration as the present article. Applicant's device differentiates mainly over the references in that there is a side flange on the present article. It is the Examiner's opinion that this flange portion is a convenient structural modification over the prior art devices and that it fails to lend patentable, ornamental merit to the instant device.
>
> While the rounded corners on applicant's design may present a neater, smoother tool than those of the prior art, it is not believed that invention was involved in the production of the design over the prior art. See *In re Johnson*, 36 CCPA (Patents) 1175, 175 F.2d 791, 82 USPQ 199.

Appellant in an unsuccessful petition for reconsideration urged that the design in issue had been recognized by the purchasing public as having patentable novelty; that while the attractive departure in design which he had effected may now appear to be an obvious one, a long time had elapsed in the art without the production of a tool anywise equivalent to appellant's neater and smoother tool; and that the tremendous acceptance of this design by the trade and public refuted the position of the Examiner that no invention was involved in its production.

The Board sustained the position of the Examiner both on his original disposition of the case and on his reconsideration thereof. Appellant contended unsuccessfully before the Board that the enthusiasm and demand of the public for his new tool, due to its more pleasing and attractive appearance over the tools of the prior art, had resulted in a market for his product of considerable volume.

The Board properly held, as we find on a careful examination of the art of record, that appellant's design varies from the references in aspects which, while pleasing and attractive to the eye, involved in their creation the exercise of no inventive faculty but only the mechanical achievement of a person skilled in the art. Moreover, appellant has not submitted as a matter of record evidence required to establish commercial success. Even so, commercial success is of importance only where a doubt exists as to the patentability of the design. *In re Miller*, 39 CCPA (Patents) 824, 194 F.2d 106, 92 USPQ 328.

In view of that conclusion, the decision of the Board of Appeals is affirmed.

AFFIRMED.



## U. S. Court of Customs and Patent Appeals

IN RE TANCZYN

*No. 5927. Decided March 11, 1953*

[202 F.2d 785; 97 USPQ 150]

1. PATENTABILITY—ARTICLE OF MANUFACTURE—*BECKET* V. *COE* AND *IN RE COOPER ET AL.* NOT IN POINT.

Where claims are directed to an article of manufacture produced from an alloy composition covering a particular range, with the prior art showing two specific alloy compositions falling within the range recited in the claims, *Held* that the essential question is clearly somewhat different from that in *Becket* v. *Coe*, 69 App. D. C. 51, 98 F.2d 332, 38 USPQ 26, and *In re Cooper et al.*, 30 CCPA 946, 134 F.2d 630, 57 USPQ 117, and neither of those cases is directly in point.

2. SAME—SAME—DISCLOSURE OF ALLOY COMPOSITION OF ARTICLE NOT AN ANTICIPATION.

Where the appellant's claims to wrought and polished straight chromium stainless steel sheets, wire and the like formed of an alloy including chromium, silicon and manganese in certain percentage ranges were rejected on disclosures of alloys falling within the recited ranges, *Held* that the rejection was not proper since the references were not in any way concerned with the problem of surface defects in wrought and polished products.

3. SAME — SAME — CLAIM TO ARTICLE DISTINGUISHED FROM CLAIM TO ALLOY.

*Held* that the distinction between claims to the wrought and polished products and any claim to the alloy composition as such is real and significant, since production of the alloy composition itself would not infringe the appealed claims to the wrought and polished products.

4. SAME — PARTICULAR SUBJECT MATTER — POLISHED STAINLESS STEEL PRODUCTS.

Certain claims to wrought and polished straight chromium stainless steel products formed of a given alloy *Held* patentable over the cited prior art.

APPEAL from the Patent Office. Serial No. 740,120.

REVERSED.

*John Howard Joynt* for appellant.

*E. L. Reynolds* (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

JOHNSON, J.:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the holding of the Primary Examiner rejecting as unpatentable over the prior art claims 10, 12, and 13, the only remaining claims in appellant's application for a patent on an "Alloy Steel and Products."

The appealed claims relate to wrought and polished stainless steel products, such as sheet, strip, wire and the like, which are substantially free from surface imperfections such as black spots, blisters, pits and inclusion lines. According to appellant, these imperfections, which are objectionable in many classes of service, are a common occurrence when such products are fashioned by rolling and polishing from "straight chromium" stainless steels having up to 3% nickel.

Appellant has found that such surface defects in this type of stainless steel are due to the presence of certain large complex silicate inclusions. In some way, apparently not fully understood, these imperfections cause a difference in the reflectivity of the highly polished surfaces, thereby giving the appearance of dark spots or black spots. According to appellant, his investigation into the causes of the complex silicate inclusions revealed that manganese promotes the development of such inclusions in this type of steel, depending upon the amounts of chromium and silicon present. This is said to be due to the powerful reducing power of manganese with respect to silica in the fire brick of the furnace and related production equipment. He discovered also that the surface defects could be eliminated by keeping the manganese content to a minimum, at least below 0.2%, and maintaining a certain definite relationship between chromium, manganese and silicon content. Appellant believes that when the allegedly critical proportions of ingredients disclosed by him are maintained, objectionable large silicate inclusions are changed to small harmless silica inclusions; in any event, a highly polished product free of surface-defacing inclusions is claimed to be assured. It is stated by appellant in his application that manganese was regarded as a desirable ingredient in such steels by the prior art, and that heretofore it has been customary for steels similar to that here involved to have manganese contents in excess of 0.2%, which appellant claims to be the critical upper limit. The latter statements have not been challenged by the Patent Office tribunals.

Claims 12 and 13 differ slightly from each other and from claim 10, which is regarded as representative and reads as follows:

> 10. In manufactures of the class described, wrought and polished straight chromium stainless steel sheet, strip, wire, and like products containing large amounts of chromium and small amounts of manganese and silicon which products are substantially free of surface-defacing complex silicate inclusions and comprise 10% to 27% chromium, up to about 0.2% manganese and from incidental amounts up to about 1% silicon with said manganese content restricted to amounts beneath the curve in the accompanying diagram corresponding to the specific amount of said chromium, and the remainder substantially all iron.

The "curve in the accompanying diagram" recited in the claim refers to a diagram in appellant's specification which shows a series of curves for various specific values of chromium content (10%, 15%, 20%, 25% and 30%) in his stainless steel products. Each curve defines, for a steel of that chromium content, the critical upper limit on the maximum permissible quantity of manganese in the steel for any specific silicon content in order to avoid undesirable complex silicate inclusions, as distinguished from the harmless simple silica inclusions. It is stated in the specification that other chromium curves and upper permissible limits on manganese may be arrived at in the diagram by interpolation. As may be seen from claim 10, the claims cover a wrought and polished steel product having a chromium content within a certain range, manganese content of 0.2% or less, and silicon content of 1% or less, with the further qualification that the manganese content for any particular silicon content shall be restricted to a value beneath the curve for the particular chromium content, as determined from the above-mentioned diagram.

The references relied on by the Patent Office are: "Stainless Iron and Steel," by J. H. G. Monypenny, 2nd ed., 1931, page 109, alloy under Table IX, and page 306, alloy No. A; also page 520. "Book of Stainless Steel," by E. E. Thum, 2nd ed., 1935, pages 154 to 156.

On page 360 of Monypenny, there is disclosed a copper-bearing stainless steel sample, designated "alloy A," which contains 0.17% manganese, 0.28% silicon and 12.1% chromium. Page 109 of that reference discloses stainless steel test bars having 0.13% manganese content, 0.14% silicon and 12.2% chromium. Counsel for appellant concedes that alloy A has manganese, silicon and chromium contents which answer to the requirements of the diagram referred to in the appealed claims. He contends, however, that the alloy on page 109, if carefully plotted on the diagram, falls just outside the critical limits. The Solicitor for the Patent Office replies that it falls just within the critical limits if plotted correctly. In view of appellant's concession with respect to alloy A, we think it immaterial which party is right as to the latter alloy, and we shall assume, for the purpose of this opinion, that the Solicitor is correct.

Monypenny also discloses on page 520 that stainless steel having about 12 to 14% chromium and 0.3% carbon is used for the manufacture of cutlery to produce a knife "which will retain its polish perfectly under ordinary domestic use." Thum discusses the polishing of stainless steel sheet and strip and indicates that steel mills now furnish polished stainless steel products in a number of different finishes. In neither case does the reference make any mention of manganese or silicon content.

The Examiner rejected the claims as unpatentable over the steel alloys disclosed on pages 109 and 306 of Monypenny in view of the disclosure on page 520 of Monypenny, and in Thum, that stainless steel alloys are commonly wrought and highly polished. The Examiner held that the two alloys disclosed by Monypenny met the composition recited in the claims, and that there was no invention in processing the same into polished products since the cited references disclosed that it was common to produce highly polished sheets from such chromium steels.

The Board of Appeals agreed with these holdings of the Examiner and accordingly sustained the rejection. The Board also indicated that it agreed with the Examiner that our holding in *In re Cooper et al.*, 30 CCPA (Patents) 946, 134 F.2d 630, 57 USPQ 117, was controlling in this case, whereas it disagreed with appellant's argument that the case of *Becket* v. *Coe*, 69 App. D. C. 51, 38 USPQ 26, was determinative.

In *Becket* v. *Coe*, supra, Becket had discovered and claimed an allegedly new deep-drawing stainless steel. The prior art references disclosed broad ranges which included the more restricted ranges of Becket's claimed alloy. However, the prior art references, which were foreign patents, in no way indicated that the patentees had sought or had found Becket's desirable discovery of a new deep-drawing stainless steel. The court was of the opinion that Becket's particular proportions in his restricted ranges were critical and resulted in a new and different metal of highly desirable properties. It concluded, in view of this, that Becket's claims were not anticipated by, and were patentable over, the cited prior art.

In the *Cooper* case, supra, the applicants disclosed and claimed a tool steel alloy having constituents in ranges which applicants apparently admitted fell within the upper ranges disclosed in a prior patent cited by the Patent Office. This court was of the opinion that Cooper et al.'s claimed alloy differed from the alloy of the prior art reference only in degree and not in kind. Distinguishing from the *Becket* case, supra, we held that in the absence of a showing that the proportions claimed were critical and produced a new and different product from that of the prior art, the applicant's claimed alloy was unpatentable.

[1] We think the essential question before us is clearly somewhat different from that in *Becket* v. *Coe* and *In re Cooper et al.* Here the claims are directed to an article of manufacture produced from an alloy composition covering a particular range, with the prior art showing two specific alloy compositions falling within the range recited in the claims. Thus, it is our opinion that neither of those cases is directly in point.

The essence of the rejection by the Patent Office tribunals is that Monypenny discloses two specific stainless steel alloys which fall within the range of the appealed claims; that Monypenny and Thum show that stainless steel alloys are commonly wrought and polished; that no invention is involved in polishing products wrought from Monypenny's specific stainless steel alloys; and that this would result in the product of manufacture claimed by appellant.

[2] The difficulty with this rejection, in our opinion, lies in the fact that neither of the references indicates that its author was in any way concerned with the problem of surface defects in wrought and polished straight chromium stainless steel products. Not only does neither reference in any way suggest any solution for eliminating such defects, but neither indicates that the author even recognized that such a problem existed, or that he attempted to trace its source. The Monypenny reference indicates that the series of samples of copper-bearing alloy A were used in tests to determine the effect of copper on the acid resistance of stainless steel: the test bars of the alloy on page 109 were apparently used to determine the variation of mechanical properties of such alloy after being subjected to varying heat treatment conditions. These two specific alloys are in no way correlated to the production of wrought and polished straight chromium stainless steel products substantially free of complex silicate inclusions. We fail to see how the references would suggest to one skilled in the art the existence of the problem, its cause, and its solution. It is our opinion that the rejection of the Board and the Examiner is based upon an unfair and unwarranted reconstruction of the prior art in the light of appellant's disclosure, and hence is not proper. *In re Bixley*, 39 CCPA (Patents) 982, 197 F.2d 355, 94 USPQ 80.

The case of *Pittsburgh Iron & Steel F. Co.* v. *Seaman-Sleeth Co.*, 248 Fed. 705 (CCA 3), involved a closely analogous fact situation.[1] In that case plaintiff sued for infringement of a claim directed to an iron alloy composition known as "Adamite." Defendant introduced in evidence prior art patents and publications containing a number of formulae and analyses of specific iron and steel products which were within the range of the claimed alloy. The court held the claim valid stating that:

> • • • the alleged anticipating alloys nowhere showed or even suggested when made or published that they were Adamite or were metals which possessed in structure or performance the Adamite characteristics of cast iron and steel, or suggested to the art either the existence of such a metal or how to make it. If any one of the alleged anticipating alloys was Adamite, that fact, so far as the record shows was not known to those who produced it or used it, and not being recognized as a new product with its distinctive characteristics, its production was purely an accident without profit to the art and without value as an anticipation. We are satisfied, therefore, that Adamite has not been anticipated by alloys, which, while accidentally of the same analyses, were not shown to be the "article of manufacture" of the patent.

It is to be noted that in the *Pittsburgh* case, the Court of Appeals reached the above-stated holding notwithstanding that the claim in issue was actually drawn to an alloy composition, although the claim identified it as an "article of manufacture." We think the principle underlying the above-quoted holding in that case is apposite here; but we need not, *and do not*, decide this case on so broad a holding as that of the *Pittsburgh* case, supra,[2] for the appealed claims are not directed to an alloy composition as such, but to certain manufactured products. Specifically, the claims are directed to "*wrought and polished* straight chromium stainless steel *products* • • • substantially free of surface defacing complex silicate inclusions • • •." [3] In these particular circumstances, we think such limitations are significant and give life and meaning to the appealed claims. It was the search for such products by appellant which gave rise to discovery of the cause of the problem here involved, and to its solution. Further, we agree with the argument by counsel for appellant that the distinction between claims to the wrought and polished products and any claim to the alloy composition as such is real and significant, since production of the alloy composition itself would not infringe the appealed claims to the wrought and polished products.

[4] For the reasons set out above, it is our opinion that appealed claims 10, 12 and 13 patentably define an invention not disclosed by the prior art of record, and that the Board erred in sustaining the Examiner's rejection of these claims. With appellant's application before us, it may be possible to look back at the references of record and say that they suggested appellant's claimed product, but such hindsight should not defeat his right to the appealed claims. *Becket* v. *Coe*, supra.

In view of the foregoing, the decision of the Board of Appeals as to claims 10, 12 and 13 is reversed.

REVERSED.

[1] So also does the case of *Ex parte Browne*, 91 USPQ 218 (Bd. of Appeals). The holding of the board was similar to that of the court in the Pittsburgh case, although that case was not cited as authority.

[2] Cf. *In re Steenbock*, 23 CCPA (Patents) 1244, 83 F.2d 912, 30 USPQ 45.



# PATENT SUITS

**Notices under 35 U. S. C. 290: Patent Act of 1952**

2,114,403, L. C. Huck, Rivet and rivet setting; 2,531,048, 2,531,049, same, Fastening device, formerly D. C., W. D. Pa., Doc. 9808, transferred Dec. 17, 1951, to D. C., S. D. Calif. (Los Angeles), Doc. 13689–T, *Huck Mfg. Co.* v. *Townsend Co.* Claims 10, 11, and 12 of 2,114,493, claims 1, 2, and 3 of 2,531,048 and 2,531,049 held valid, and infringed (no adjudication *re* claims 1 to 9 and 13 and 14 of 2,114,493), injunction, referred to Special Master; dismissed with prejudice defendant's counterclaims for declaratory judgment (notice Apr. 27, 1953).

2,133,442, W. L. Gerrans, Jr., Tray loading device, filed Apr. 23, 1953, D. C., N. D. Calif. (San Francisco), Doc. 6883, *W. L. Gerrans, Jr.* v. *Knipschild Dehydrator & Mfg. Co.*

2,140,511, 2,140,514, M. Cline, Methods of treating crude oleo-resins, filed Apr. 28, 1953, D. C., S. D. Fla. (Jacksonville), Doc. 2530–J, *Wood Process Co., Inc.* v. *Jacksonville Processing Corp.* Doc. 2540–J, *Wood Process Co.* v. *McRae Processing & Supply Co., Inc.* Doc. 2541–J, *Wood Process Co.* v. *The Newton Co.* Doc. 2542–J, *Wood Process Co.* v. *Pearson Gum Processing Corp.* Doc. 2543–J, *Wood Process Co.* v. *Peninsular-Lurton Co.*

2,140,514. (See 2,140,511.)

2,333,746, F. L. Scott et al., Cutter teeth for well drills, filed May 2, 1953, D. C. Del. (Wilmington), Doc. 1535, *Chicago Pneumatic Tool Co.* v. *Hughes Tool Co.*

2,339,827, W. P. White, Closure cap and package, C. C. A., 6th Cir. (Toledo), Doc. 11520, *White Cap Co.* v. *Owens-Illinois Glass Co.* Judgment of lower court affirmed Apr. 24, 1953.

2,356,122, H. G. Edwards, Crushing machine, filed Apr. 29, 1953, D. C., E. D. La. (New Orleans), Doc. 3968, *H. G. Edwards* v. *H. A. Bennett.*

2,388,867, R. O. Peterson, Brush and brush material, D. C. N. J. (Newark), Doc. 224/52, *The Osborne Mfg. Co.* v. *Newark Brush Co.* Judgment entered holding patent invalid and dismissing action Apr. 27, 1953.

2,425,132, S. A. Stokes, Bit, D. C., S. D. Calif. (Los Angeles), Doc. 10174–PH, *Concrete Termite Rotary Drill Co.* v. *Rotary Concrete Drill Co. et al.* Stipulation and order dismissing cause with prejudice Apr. 24, 1953.

2,490,920, H. Roisman, Film viewer with intermittent motion, D. C., S. D. Calif. (Los Angeles), Doc. 12968–C, *H. Roisman* v. *Mattel Creations, Inc.* Judgment holding defendants have not infringed (notice Apr. 27, 1953).

2,494,636, J. B. Stine, Emmenthaler cheese, filed Apr. 25, 1953, D. C. Del. (Wilmington), Doc. 1533, *C. J. Honer et al.* v. *Kraft Foods Co.*

2,531,048. (See 2,114,493.) 2,531,049. (See 2,114,493.)

2,532,205, W. J. Summers, Coin selector, C. C. A., 6th Cir., Doc. 11636, *Royal Patent Corp. et al.* v. *Monarch Tool*

*& Mfg. Co.* Judgment of lower court affirmed Apr. 24, 1953.

2,545,818, C. R. Larkin, Barbecue appliance, filed Apr. 24, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15425–Y, *C. R. Larkin et al. v. Jay Specialty Products, Inc., et al.*

2,551,110, R. Fuller, Portable form for lining irrigation ditches; 2,625,754, J. F. Morgan, Ditch forming plow, filed Apr. 23, 1953, D. C. Ariz. (Phoenix), Doc. 1879, *Fullerform, Inc. v. W. N. Shawver et al.*

2,551,110 (a), R. Fuller, Portable form for lining irrigation ditches, filed Apr. 29, 1953, D. C. Ariz. (Phoenix), Doc. 1881, *Fullerform, Inc. v. John Freeland et al.*

2,568,227, M. W. Federbush, Loose leaf binder, filed Apr. 29, 1953, D. C. Mass. (Boston), Doc. 53/479–S, *M. W. Federbush et al. v. Elbe File & Binder Co., Inc.*

2,625,456, M. Rostan, Display and storage structure, filed Apr. 30, 1953, D. C., S. D. N. Y., Doc. 84/349, *Atlantic Plastics Co., Inc. v. The Henry Hanger & Display Fixture Corp. of America.*

2,625,754. (See 2,551,110.)

Des. 156,234, R. H. Higier, Glove, filed Apr. 23, 1953, D. C., S. D. N. Y., Doc. 84/287, *Crescendor Gloves, Inc. v. Gloria Gloves, Inc.*

Des. 158,688, A. F. Reilly, Table lighter, filed May 11, 1951, D. C., S. D. N. Y., Doc. 66/293, *Evans Case Co. v. L. Butlin & Son, Inc.* Stipulation and order of discontinuance Apr. 29, 1953.

Des. 165,259, F. C. Baker, Ceiling light fixture, D. C. Oreg. (Portland), Doc. 6053, *Baker-Barton Co. v. Webb Electric Mfg. Co.* Patent held invalid and void, cause dismissed Apr. 24, 1953.

# TRADE-MARK SUITS

**Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946**

T. M. 285,003, Abbott Laboratories, Hypnotic sedative anesthetic compound, D. C., S. D. N. Y., Doc. 83/350, *Abbott Laboratories v. Park Pharmacy.* Consent judgment for injunction (notice Apr. 30, 1953).

T. M. 313,768, Esquire Publishing Co., Monthly publication, D. C., E. D. Pa. (Philadelphia), Doc. 14276, *Esquire, Inc. v. Esquire Cleaners & Tailors.* Stipulation of counsel dismissing action Apr. 24, 1953.

T. M. 354,199, Trojan Publishing Corp., Periodical publication; T. M. 507,040, T. M. 365,670, The Lone Ranger, Inc., Cartoon series; T. M. 527,916, same, Radio broadcast, filed Apr. 28, 1953, D. C., S. D. N. Y., Doc. 84/329, *The Lone Ranger, Inc. v. M. A. Henry Co., Inc., et al.*

T. M. 365,023, International Appliance Corp., Electric cooking stoves, D. C., S. D. N. Y., Doc. 64/255, *International Appliance Corp. v. Broil-Quick, Inc.* Stipulation and order of dismissal Apr. 28, 1953.

T. M. 365,670. (See T. M. 354,199.)

T. M. 507,040. (See T. M. 354,199.)

T. M. 527,916. (See T. M. 354,199.)

T. M. 571,045, Par Equipment, Inc., Industrial mixer for the blending of oil, etc., filed Apr. 23, 1953, D. C., N. D. Okla. (Tulsa), Doc. 3257, *Sawyer Jensen-Ross Co. v. Par Equipment, Inc.*

# NOTICES

## International Convention for the Protection of Industrial Property

*Adherence of Sweden to the London 1934 Revision*

The Secretary of State has been notified by the Legation of Switzerland of the adherence, effective July 1, 1953, of Sweden to the International Convention for the Protection of Industrial Property as last revised at London on June 2, 1934.

ROBERT C. WATSON,
June 18, 1953. *Commissioner of Patents.*

## New Rules of United States Court of Customs and Patent Appeals

The United States Court of Customs and Patent Appeals has promulgated a new set of rules, effective July 1, 1953. Copies may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

The principal changes consist in the amendment of Rule 5 to change certain fees and to eliminate the charge of 25 cents per page for supervising the printing of records, the amendment of Rule 13 to eliminate the requirement for printing documentary exhibits, the amendment of Rules 26 and 27 to eliminate the provisions that a vacation period of the Court shall extend the time for payment of the cost of printing the record and for filing briefs, and the amendment of Rule 27 to require the filing of 18 copies of printed briefs instead of 15.

## Cancellation Notices

[No. 6043]

*Perx Company, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Rayette, Inc., St. Paul, Minnesota, to effect the cancellation of trade-mark registration of Perx Company, 222 West North Bank, Chicago, Illinois, No. 368,101, dated June 6, 1939, and the notice of such proceeding sent by registered mail to the said Perx Company, at the said address having been returned by the Post Office as undeliverable, notice is hereby given that unless said Perx Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 30.)

THOMAS F. MURPHY,
June 11, 1953. *Assistant Commissioner of Patents.*

[No. 6060]

*V. Loewer's Gambrinus Brewery Co., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by August Wagner Breweries, Inc., 605–631 South Front Street, Columbus, Ohio, to effect the cancellation of trade-mark registrations of V. Loewer's Gambrinus Brewery Co., 528–32 West 42nd Street, New York, New York, No. 351,042, dated October 19, 1937 and No. 373,286, dated December 5, 1939 and the notice of such proceeding sent by registered mail to the said V. Loewer's Gambrinus Brewery at the said address having been returned by the Post Office as being undeliverable, notice is hereby given that unless said V. Loewer's Gambrinus Brewery Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 30.)

THOMAS F. MURPHY,
June 11, 1953. *Assistant Commissioner of Patents.*

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

**(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)**

Pat. 2,628,025. Slide Rule. Patented Feb. 10, 1953. Slide rule has a resilient outer and inner scale with a resilient index therebetween, and resilient projections for coaxially balancing and promoting smooth travel of the scales and the index to reduce reading errors and resistance to sliding. (Owner) Michael J. Quillinan, 1049 Grand Concourse, Bronx 52, N. Y. Groups 35—79; 40. Reg. No. 50,943.

Pat. 2,629,512. Capseal. Patented Feb. 24, 1953. Capseal for containers and fittings has a tearing strip which tears the capseal by gripping action applied to a tearing ear cleaving the strip along scored lines on an area of localized frangibility defined by the scored lines meeting with the sides of the tearing ear at the capseal's periphery. (Owner) Michael J. Quillinan, 1049 Grand Concourse, Bronx 25, N. Y. Groups 33—73; 34—99; 40. Reg. No. 50,944.

Pat. 2,621,221. Trough for Battery Accumulators. Patented Dec. 9, 1952. Rubber tray for a storage battery has a bottom wall and four side ledges, the upper edges of which are inwardly and downwardly inclined, forming a gutter and having a series of projections to support a storage battery. Depressed portions between the projections open into a drain to collect liquid from the walls of the battery. The bottom wall has a series of depressed portions for collecting liquid and an opening extended by an outlet for discharging the outflow of the liquid collected in the trough. (Owner) Yves de Munck, 49 rue du Page, Brussels, Belgium. Groups 30—32; 36—91. Reg. No. 50,945.

Pat. 2,564,741. Dynamoelectric Machine. Patented Aug. 21, 1951. Dynamoelectric machine has a rotating field and a rotating armature revolving in opposite directions. A hollow shaft mounted on a drive shaft for rotation therewith has an integral spider carrying magnetic cores and field windings. A cage mounted for rotation around the hollow shaft carries a revolving armature in alignment with the cores and windings on the spider. Transmission gearing connects the hollow shaft and cage to effect rotary movement of the cage in a direction opposite to the direction of rotation of the hollow shaft. Commutator brushes mounted on the hollow shaft engage commutator segments of a commutator mounted on and inside the cage. Collector rings mounted on the hollow shaft outside the cage have electrical connections with stationary brushes, with some of the rings having electrical connections with the field windings through the commutator. Terminal posts are provided for the stationary brushes for effecting outside connections with a variable resistance and load. (Owner) Lewis S. Vermillion, 10132 Franks-town Road, Pittsburgh 35, Pa. Group 36—19. Reg. No. 50,946.

Pat. 2,624,282. Rotary Vane Motor or Pump. Patented Jan. 6, 1953. Fluid motor or pump may be used for hydraulically propelling automotive vehicles, ships, or locomotives, and eliminates the use of mechanical transmission from such conveyances. A sectional rotor within a casing has longitudinal openings in which rotary pistons having a plurality of flattened recesses in their outer surfaces are mounted. A pair of projections on the inner surface of two rings disposed in an internal annular recess in the casing, and a similar projection on the inner surface of the casing extend into three spaced annular channels in the outer surface of the rotor. Fluid inlet and outlet passages extending radially inwardly at opposite ends of the projections communicate with the channels. A timing device sets the pistons for use as vanes to turn the rotor when fluid under pressure is introduced into the channels. As the pistons approach the projections, the timing device turns them so that their flattened recesses will ride under the projections. The channels are of different volume so that by introducing fluid into different channels, or simultaneously into two or all three of the channels, the rotor may be operated at several different speeds. (Owner) John R. Allsup, Sr., P. O. Box 734, Port Orchard, Wash. Group 35—69. Reg. No. 50,947.

Pat. 2,632,488. Screw Holding Screw Driver Attachment. Patented Mar. 24, 1953. Screw driver attachment for holding a screw in position may be stamped from springy sheet metal. A flat metal strip has an elongated recess at one end communicating with a pair of spaced openings. The end of the recessed portion is bent upwardly forming an arcuate opening with a resilient finger on either side to releasably maintain a screw or bolt in position. A pair of spaced elongated openings are provided in the other end of the metal strip to slidably receive the shank of the screw driver, which is pushed forwardly until the operating end is located in the upwardly bent portion. After a screw is located in position, the driver is pushed forwardly and its knife end is inserted into the slot in the head of screw. (Owner) Maximilian C. Becker, 79 Washington St., East Orange, N. J. Group 33—52—73. Reg. No. 50,948.

Pat. 2,515,454. Beach Shade. Patented July 18, 1950. An adjustable shade for use on beaches, lawns, or against automobiles may be collapsed into a parcel the size of a golf bag. The structure comprises a canvas-covered top having two frames in end-to-end relation, supported on a pair of crossed legs at each end, and a clamping rod. Each frame consists of two sets of T-cross-section side elements pivoted through the webs at two opposite corners for collapsing within itself, and assembled by fastening pins through the other two corners. The two frames are locked together by pins through adjacent T bars and by a clamping rod in hinged sections, which extends through slots in the T bars and has a telescoping sleeve on each end with an outwardly inclined recess extending through the crossed flattened ends of the legs to receive a clamping tool. The tool pivots downwardly into a locking position, forcing the top ends of the legs into frictional engagement with the ends of the frames to prevent tilting. The legs are in telescoping sections. A canvas cover is snap-fastened over the top and extends in a back drop, held at its lower corners by arms removably extending from the rear legs. (Owner) George H. Krumwiede, 614 Fifth Ave., New Hyde Park, Long Island, N. Y. Group 23—95. Reg. No. 50,949.

Pat. 2,584,379. Pie Plate. Patented Feb. 5, 1952. Wedge shaped cardboard container for packaging and serving a cut piece of pie is designed to protect the pie, contain the juices, and expose the top and one side to view. The plate is open at one side so that a piece of pie may be inserted through the side onto the plate. The open top and open side of the plate may be closed and sealed by a transparent portion of a film-like displaceable cover secured to the outer surface of the base of the plate. When the cover is removed, a fork may be inserted through the open side to cut and eat the pie. A clip for holding the fork may be secured to the side or rear wall of the plate. The plate may be formed also of plastic or any other suitable material. (Owner) Catherine A. Chmielewski, 2802 South Broad St., Trenton 10, N. J. Groups 25—99; 26—69—99; 32—69; 33—73; 39—81. Reg. No. 50,950.

Pat. 2,605,932. Dispenser for Collapsible Tube Containers. Patented Aug. 5, 1952. Dispenser for a tube of tooth paste or the like comprises an inner housing section having a backing plate for attachment to a wall or other surface, and an outer removable housing section. A key and knob assembly are slidably and rotatably mounted in a longitudinal slot in the front wall of the outer section. The outer section is removed, and a tube of paste inserted therein. The tube is easily inserted by placing the neck in a retaining member and the flattened end in a slot in the key. The outer section with the inserted tube is then pressed inwardly and downwardly to relensably secure it to the inner section with the neck of the tube in alignment with a discharge passage in a paste discharge and cut-off assembly in the lower end of the inner section. A slide connected to a lever is spring biased to normally close the lower end of the passage. The head of a tooth brush may be pressed against the lever to uncover the passage, and the knob rotated to wind the tube on the key to dispense paste onto the brush. (Owner) George Locke, 407 South Morgan Ave., Wheaton, Ill. Groups 33—73; 40. Reg. No. 50,951.

Pat. 2,546,278. Sound Reproducing System. Patented Mar. 27, 1951. A portable remote-control unit for switching a pillow speaker into and out of the output circuit of a radio receiver in the same or different rooms is especially adapted for use in hospitals or other places where radio programs are to be enjoyed by some without inconveniencing others. A pair of circuits leading to a regular speaker and to a pillow speaker respectively are so arranged that output current is routed through two control switches before passing to either speaker. One is a double-pole-double-throw switch, having movable contacts connected to the output circuit, and stationary contacts connected to the circuits of both speakers. The other is a double-pole-single-throw switch, with movable contacts connected to the regular speaker circuit, and stationary contacts connected to the pillow speaker circuit. Selective control is accomplished by operating the switches to direct the output current through either speaker or through both simultaneously. The device may also be adapted to switch extra telephones from a main supply. (Owner) Roy W. Skene, Box 464, Petrolia, Ontario, Canada. Group 36—61. Reg. No. 50,952.

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General Electric Company offers the following 33 patents for non-exclusive licensing, upon reasonable terms, to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Pat. 2,587,331. High-Frequency Electrical Heating Method and Apparatus. Feb. 26, 1952. Device for producing a high-temperature, high-frequency discharge in the form of an elongated flame-like column may be used, for example, as a welding torch or like device. Groups 35—42; 36—19. Reg. No. 50,953.

Pat. 2,602,368. Color Matching Apparatus. July 8, 1952. Apparatus for matching colors through the medium of their spectrophotometric curves for quickly determining the relative amounts of different color elements, such as pigments or dies, which are necessary to produce a desired color shade when mixed together. Group 39—13. Reg. No. 50,954.

Pat. 2,615,060. Crucible for the Purification of Molten Substances. Oct. 21, 1952. Crucible of electrically conducting resistance material having an ingot mold cavity for melting and purifying metals, for example germanium, by differential directional cooling. Group 36—19. Reg. No. 50,955.

Pat. 2,615,154. Automatic Steering System. Oct. 21, 1952. Automatic steering system of a compass-controlled, feed-back type for dirigible craft and the like includes weather helm compensating means to improve the course-following properties of the craft under adverse weather conditions. Group 36—19. Reg. No. 50,956.

*The following four patents relate to: Bearings; bushings; and a flexible joint for aircraft gas turbine power plants and the like.*

Pat. 2,590,761. Bearing. Mar. 25, 1952. Group 35—66. Reg. No. 50,957.

Pat. 2,609,596. Method of Making Sheet Metal Bushings. Sept. 9, 1952. Group 35—66. Reg. No. 50,958.

Pat. 2,613,087. Flexible Conduit Joint. Oct. 7, 1952. Group 35—69. Reg. No. 50,959.

Pat. 2,615,734. Lubricant Seal for Bearings. Oct. 28, 1952. Group 35—66. Reg. No. 50,960.

*The following five patents relate to: A lampholder for table lamps; an electrically heated pressure cooker; an electric fan; and machines for washing clothes and dishes.*

Pat. 2,605,389. Ventilated Lampholder. July 29, 1952. Group 34—81. Reg. No. 50,961.

Pat. 2,611,070. Control for Electrical Cooking Appliances. Sept. 16, 1952. Group 36—21. Reg. No. 50,962.

Pat. 2,615,619. Oscillating Electric Fan and Power Supply Means Therefor. Oct. 28, 1952. Group 36—21. Reg. No. 50,963.

Pat. 2,619,823. Water Control System for Automatic Washers and the Like. Dec. 2, 1952. Group 35—81. Reg. No. 50,964.

Pat. 2,619,977. Water Inlet for Dishwashers or the Like. Dec. 2, 1952. Group 35—89. Reg. No. 50,965.

*The following two patents relate to a clutch and to a combined clutch and brake, both of the magnetic fluid type.*

Pat. 2,612,248. Clutch-Brake Mechanism. Sept. 30, 1952. Group 35—66. Reg. No. 50,966.

Pat. 2,616,539. Bi-Directional Magnetic Fluid Clutch. Nov. 4, 1952. Group 35—66. Reg. No. 50,967.

*The following eight patents relate to: A circuit reclosing device; dynamic braking system for series wound electric motors; a standoff insulator stud for use between an electric motor and a brush holder; excitation system for battery charging apparatus of Diesel-electric locomotives and the like; a differential screw for adjusting the air gap of a magnetic core; a lubricated hermetically sealed motor-driven gyroscope; a compressional wave transducer; and illuminated multi-scale dial structure.*

Pat. 2,612,574. Circuit Restorer. Sept. 30, 1952. Group 36—19. Reg. No. 50,968.

Pat. 2,615,152. Dynamic Braking System. Oct. 21, 1952. Group 36—19. Reg. No. 50,969.

Pat. 2,615,954. Standoff Insulator Stud. Oct. 28, 1952. Group 36—19. Reg. No. 50,970.

Pat. 2,616,072. Excitation System. Oct. 28, 1952. Group 36—19. Reg. No. 50,971.

Pat. 2,617,092. Differential Screw Adjustment for Magnetic Core Air Gaps. Nov. 4, 1952. Group 36—19. Reg. No. 50,972.

Pat. 2,617,494. Lubricated Hermetically Sealed Rotating Equipment. Nov. 11, 1952. Group 39—11. Reg. No. 50,973.

Pat. 2,618,698. Transducer and Method of Making the Same. Nov. 18, 1952. Group 36—19. Reg. No. 50,974.

Pat. 2,619,068. Illuminated Multiscale Dial Structure. Nov. 25, 1952. Group 36—13—61. Reg. No. 50,975.

*The following four patents relate to: A frozen food drawer for refrigerators; a sliding door for an open top refrigerator display cabinet; a tube seal for home freezers; and a fastening device for clamping a front panel to the main body of a radio cabinet or the like wherein a minimum of frontal area is occupied by the device.*

Pat. 2,613,123. Frozen Food Drawer for Refrigerators. Oct. 7, 1952. Group 35—84. Reg. No. 50,976.

Pat. 2,613,841. Sliding Door Assembly. Oct. 14, 1952. Group 35—84. Reg. No. 50,977.

Pat. 2,614,398. Tube Seal. Oct. 21, 1952. Group 35—84. Reg. No. 50,978.

Pat. 2,616,135. Fastening Device. Nov. 4, 1952. Group 33—59. Reg. No. 50,979.

*The following three patents relate to measuring and testing devices.*

Pat. 2,615,332. Torquemeter. Oct. 28, 1952. Group 36—13. Reg. No. 50,980.

Pat. 2,617,438. Apparatus for Testing Turbine Stop Valves While in Service. Nov. 11, 1952. Group 36—13. Reg. No. 50,981.

Pat. 2,617,854. Induced Voltage Flaw Detector. Nov. 11, 1952. Group 36—13. Reg. No. 50,982.

*The following three patents relate to: A coating for reducing the adhesion of ice to solid surfaces, such as windshields, aircraft wings or propellers, ice cube trays, etc.; the preparation of diphenylol methane; and a silicon-containing compound.*

Pat. 2,617,269. Surface Having Low Adhesion to Ice. Group 28—83. Reg. No. 50,983.

Pat. 2,617,832. Method for Preparing Diphenylol Methane. Nov. 11, 1952. Group 28—89. Reg. No. 50,984.

Pat. 2,618,648. Preparation of Hexamethylcyclotrisiloxane. Nov. 18, 1952. Group 28—89. Reg. No. 50,985.

# TRADE-MARKS

## OFFICIAL GAZETTE, JULY 7, 1953

[VOL. 672. No. 1]

## ACT OF 1905

**The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.**

**Marks published for opposition under the act of 1946 follow the 1905 publications.**

### CLASS 2

### RECEPTACLES

Ser. No. 523,525. Kra-Mag Products, also trading as Drink-O-Tap, Baltimore, Md. Filed June 4, 1947.

**DRINK-O-TAP**

For Combination Bottle Cap and Cup Made of Plastic or Plastic Compositions.

Claims use since May 23, 1947.

### CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 497,309. Heritage Furniture, Inc., High Point, N. C. Filed Feb. 27, 1946.

*Heritage*

For Furniture—Namely, Upholstered Furniture for Living Rooms—Namely, Sofas, Sofa Beds, Day Beds, Couches, Settees, Love Seats, Settles, Sectional Sofas, Curved Sofas, Lounge Chairs, Wing Chairs, Barrel Chairs, Arm Chairs, Open Arm Chairs, Side Chairs, Lawson Chairs, Occasional Chairs, Desk Chairs, Armless Chairs, Sectional Chairs, Host and Hostess Chairs, Chaise Longues, Platform Rockers, Rockers, and Ottomans; Tables for Living Rooms, Chairs for Bed-Room and Dining Room.

Claims use since Jan. 15, 1946.

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## ACT OF 1946

**The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.**

**As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.**

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 607,252. The Juvenile Shoe Corporation of America, Aurora, Mo. Filed Dec. 4, 1950.

**GloveLk**

Applicant claims ownership of Registration No. 362,244.

For Tanned Leather for Particular Use in Shoes.

Claims use since June 1947.

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Ser. No. 631,476. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed June 20, 1952.

**Kodapak**

Applicant claims ownership of Registrations Nos. 293,954 and 310,219.

For Thin, Transparent Sheeting of Cellulosic Composition and Thin, Translucent Sheeting of Cellulosic Composition.

Claims use since June 15, 1931.

Ser. No. 635,477. Indian Trail Ranch, Inc., West Palm Beach, Fla. Filed Sept. 19, 1952.

**CHLOROMEAL**

For Agricultural Materials—Namely, Grasses, Weeds, Plants, Containing Chlorophyl, Zantophyl and Vitamin A, Carotin, and Other Substances in Extractable Form for Use as Food and Drug Additives.

Claims use since May 9, 1952.

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Ser. No. 636,132. Arthur W. Libby, doing business under the name of Two Rivers Poultry Farms, Steep Falls, Maine. Filed Oct. 3, 1952.

**X-99**

For Hatching Eggs and Live Baby Chicks.

Claims use since Feb. 7, 1950.

Ser. No. 637,312. Hercules Powder Company, Wilmington, Del. Filed Oct. 29, 1952.



For Cellulose Gum.
Claims use since Jan. 10, 1951.

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Ser. No. 637,461. Pittsburgh Consolidation Coal Company, Pittsburgh, Pa. Filed Oct. 31, 1952.




The drawing is lined for red and black. The words "Stoker Coal" are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 236,267, 237,461, and others.
For Coal.
Claims use since Apr. 27, 1949.

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Ser. No. 639,092. C. K. Williams & Co., Easton, Pa. Filed Dec. 5, 1952.

V I-ROC

For Low Grade Limestone for Use in Fertilizers and in Poultry Feeds, and as a Filler in Asphalt Base Compositions, Such as Pipe Coatings, Composition Floorings, Well Drilling, Acid Neutralization, and Other Miscellaneous Industrial Fields.
Claims use since Oct. 1, 1952.

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Ser. No. 639,147. American Anthracite & Bituminous Coal Corporation, New York, N. Y. Filed Dec. 8, 1952.




Applicant claims ownership of Registration No. 562,422.
For Coal.
Claims use since Nov. 24, 1950.

## CLASS 2

## RECEPTACLES

Ser. No. 582,294. The B. F. Goodrich Company, Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")




Applicant claims ownership of Registrations Nos. 65,421, 388,625, 391,100, 393,533, and 395,840.
For Buckets Made of Hard Rubber and Similar Hard Resinous Materials.
Claims use since about March 1946, as to the mark shown.

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Ser. No. 622,130. The Sydney-Thomas Corporation Cincinnati, Ohio. Filed Dec. 5, 1951.



For Transparent Bags Made of Plastic for Protecting Clothing, Garments, and Other Textile Goods; Freezer Bags Made of Plastic for Refrigerated Food Products; and Paper and Plastic Boxes, Bags, Cartons, and Container Linings for Pails, Drums, or Cans.
Claims use since 1944.

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Ser. No. 623,461. The Greif Bros. Cooperage Corporation, Delaware, Ohio. Filed Jan. 11, 1952.




Applicant claims ownership of Registrations Nos. 427,903 and 440,175.
For Barrels, Boxes, Drums, Riddles, and Kegs.
Claims use since June 21, 1949.



Ser. No. 627,302. Munising Wood Products Company, Inc., Chicago, Ill. Filed Feb. 25, 1952.




"Robinhood" is the name of a legendary yeoman character of British folklore. The portrait is fanciful. The word "Ware" is disclaimed apart from the trade-mark as shown in the drawing.
For Bowls, Lazy Susans, Trays, Dishes, All Made of Wood.
Claims use since 1934.

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Ser. No. 629,828. Valco Manufacturing Company, Huntington Park, Calif. Filed May 16, 1952.

VALCo

For Dairy Equipment—Namely, Tanks for Storing and Shipping Milk in Bulk.
Claims use since Jan. 26, 1950.

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Ser. No. 631,218. Northwest Plastics, Inc., St. Paul, Minn. Filed June 14, 1952.

NORPLAC

For Cigarette Package Dispensers Comprising a Plastic Oblong Wall Box, With a Chute.
Claims use since May 23, 1952.

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Ser. No. 633,227. Texas Boiler & Machinery Company, Dallas, Tex. Filed July 29, 1952.

BLUEBONNET SYSTEM

The word "System" is disclaimed apart from the mark as shown in the drawing.
For Butane Storage and Shipping Tanks.
Claims use since June 11, 1952.

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Ser. No. 634,258. Les Parfums de Dana, Inc., New York, N. Y. Filed Aug. 21, 1952. (Sec. 2f.)

DANA

Applicant claims ownership of Registrations Nos. 418,836, 422,487, and 444,516.
For Vanity Cases, Compacts, and Lipstick Holders Made of Base Metal and Plastic and Sold in Trade Empty.
Claims use since Oct. 30, 1944.

Ser. No. 636,241. Marathon Corporation, Menasha, Wis. Original filed, act of 1946, Supplemental Register, Oct. 6, 1952; amended to application, Principal Register, Apr. 3, 1953.

PERMA WHITE

The word "White" is disclaimed apart from the mark as shown.
For Laminated Cardboard Trays for Meats.
Claims use since July 3, 1952.

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Ser. No. 637,814. Biddle Purchasing Company, trading as Meridian Distributors, New York, N. Y. Filed Nov. 8, 1952.

MERIDIAN

For Vacuum Bottles.
Claims use since Jan. 24, 1950.

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Ser. No. 637,866. Dairypak, Incorporated, Cleveland, Ohio. Filed Nov. 10, 1952.



For Paper Cartons for Dairy Products.
Claims use since Sept. 15, 1952.

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Ser. No. 638,178. Wolf Brothers, Inc., Philadelphia, Pa. Filed Nov. 15, 1952.

QUADRA PLAID

The word "Plaid" is disclaimed apart from the mark as shown.
For Paper Bags.
Claims use since Sept. 23, 1952.

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Ser. No. 638,179. Wolf Brothers, Inc., Philadelphia, Pa. Filed Nov. 15, 1952.

STYLED BY W

The words "Styled by" are disclaimed apart from the mark as shown.
For Paper Bags.
Claims use since Oct. 9, 1952.

Ser. No. 641,540. Barbara Dianne, New York, N. Y. Filed Jan. 30, 1953.

Blinky

For Insulated Heat-Retaining Baby-Bottle Zipper Bags in the Shape of a Doll.
Claims use since Jan. 14, 1952.

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Ser. No. 642,390. Crown Zellerbach Corporation, San Francisco, Calif. Filed Feb. 18, 1953.

ZEE

Applicant claims ownership of Registrations Nos. 279,461, 331,774, and others.
For Waxed Paper Bags.
Claims use since Jan. 21, 1953.

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## CLASS 4

## ABRASIVES AND POLISHING MATERIALS

Ser. No. 512,521. E. Morris Manufacturing Company, Detroit, Mich. Original filed, act of 1905, Nov. 13, 1946; amended to application under act of 1946, Principal Register, Dec. 23, 1949. (Sec. 2f.)

CERTIFYD

Applicant claims ownership of Registration No. 192,899.
For Razor Strops.
Claims use since May 20, 1924.

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Ser. No. 610,700. Lien Chemical Company, Franklin Park, Ill. Filed Mar. 1, 1951.

"GRIP - STEP"

For Self Polishing Floor Wax.
Claims use since July 18, 1947.

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Ser. No. 637,264. Henry C. Campbell, doing business as El-Bo-Ez Company, Skaneateles, N. Y. Filed Oct. 28, 1952.

EL-BO-EZ

For Polishing Powder for Use on all Wax Surfaces To Produce a Lustrous Finish.
Claims use since Oct. 18, 1952.

## CLASS 5

## ADHESIVES

Ser. No. 642,342. The Borden Company, New York, N. Y. Filed Feb. 17, 1953.

EPIPHEN

For Epoxide Resin for Glues.
Claims use since Mar. 21, 1952.

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## CLASS 6

## CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 594,778. Imperial Chemical Industries Limited, London, England. Filed Mar. 28, 1950.

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Applicant claims ownership of British Registrations Nos. 507,717, 507,718, 507,747, and 507,750, all dated Nov. 12, 1929.

For Chemicals and Chemical Substances Used in Industry, Photography, Science, Agriculture, and Horticulture Such as: Accelerators for Hardening Synthetic Resins and Vulcanising Rubber, Industrial Alcohols, Ant Killing Preparations, Preparations for Preventing the Freezing of Water in Motor-Car Radiators and the Like, Anti-Frothing Agents, Anti-Mildew Agents, Anti-Oxidants, Austempering Salts, Azoic Colours, Catalysts, Cellulose Derivatives, Colours for the Manufacture of Paints, Inks, Lakes, and Pigmented Products, Cresols, Dextrines, Disinfectants for Industrial, Household, Agricultural, and Horticultural Use, Dispersing Agents, Dressers for Textiles, Paper, Leather and the Like, Driers for Synthetic Resins, Dyestuffs.

Foaming Agents, Froth Preventing Agents, Fruitdrop Preventatives, Fumigants, Fungicides, Hardeners for Cement and Hardeners for Plastics, Inhibitors for Ethylene Glycolin, Chemical Substances for the Manufacture of Inks, Insecticides, Lakes, Mildew Prevention Agents, Mordants, Moth Balls, Moth Proofing Materials, Parasiticides, Pest Control Products, Phthalates, Pigments, Plasticisers, Plastics in the Form of Powders, Granules, Solutions, and the Like, Propulsive Elements for Rocket Driven Craft, Reclaiming Agents for Rubber, Rust Inhibitors and Rust Preventatives, Scrooping Agents Used To Impart a Crisp Feeling to Textiles, Seed Dressings, Slime Controlling Agents, Soil Sterilisers, Solvents, Spreading Agents, Stabilising Agents, Synthetic Resins in the Form of Powders, Granules, Solutions and the Like, Tanning Auxiliaries, Textile Finishing Agents, Textile Assistants, Thermoplastic Moulding Powders, Resins, and Polymers, Tree Banding Compounds, Vermicides, Vulcanisation Accelerators, Waterproofing Agents, Synthetic Waxes, Halogenated Waxes, and Halogenated Synthetic Waxes, Weedkillers, Wetting Agents, Washes for the Winter Treatment of Fruit Trees.

Namely: Acetanilide, Acetic Acid, Acetic Oxide, Acetone, Acetone Cyanhydrin, Acetyl Cellulose, Acetyl Oxide, Alginic Acid, Alginates, Aldol Napthylamine, Alizarine Dyestuffs, Albumen, Alkyd Resins, Alpha Chlornaphthalene, Aluminium Acetate, Aluminium Ammonium Sulfate, Aluminium Chloride, Aluminium Fluoride, Aluminium Formate, Aluminium Hydroxide, Aluminium Iron Sulfate, Aluminium Nitrate, Aluminium Oleate, Aluminium Oxide, Aluminium Phosphate, Aluminium Potassium Sulfate, Aluminium Sodium Fluoride, Aluminium Stearate, Aluminum Sulfate, Amino Acetanilide Hydrochloride, Amino Dimethylaniline Sulfate, 4-Amino Diphenylamine, 4-Amino Diphenylamine Hydrochloride, Amino Guanidine Bicarbonate, Amino 5-Naphthol F Sulfonic Acid, Amino 8-Naphthol-6-Sulfonic Acid, Amino 8-Naphthol-6-Disulfonic



Acid, Ammonia, Ammonium Acetate, Ammonium Bicarbonate, Ammonium Bichromate, Ammonium Bifluoride, Ammonium Carbonate, Ammonium Chloride, Ammonium Dihydrogen Phosphate, Ammonium Formate, Ammonium Hydroxide, Ammonium Fluoride, Ammonium Fluosilicate, Ammonium Hydrosulfide, Ammonium Meta Vanadate, Ammonium Molybdate, Ammonium Nickel Sulfate, Ammonium Nitrate, Ammonium Oleate, Ammonium Oxalate Monohydrate, Ammonium Perchlorate, Ammonium Persulfate, Ammonium Phosphate, Ammonium Polymethacrylate, Ammonium Silicofluoride, Ammonium Stearate, Ammonium Sulfate, Ammonium Sulfide, Ammonium Sulfocyanide, Ammonium Thiocyanate, Amyl Acetate, Amyl Acetic Ester, Amyl Alcohol, Antimony Pentasulfide, Antimony Chloride, Antimony Potassium Tartrate, Antimony Fluoride, Antimony Trioxide, Antimony Trisulfide, Arsenic Disulfide, Arsenic Pentoxide, Arsenic Trioxide, Arsenic Trisulfide, Arsenious Acid.

Barium Antimonyl Tartrate, Barium Carbonate, Barium Chlorate, Barium Chloride, Barium Hydroxide, Barium Nitrate, Barium Peroxide, Barium Silicofluoride, Barium Stearate, Barium Sulfate, Barium Sulfide, Barium Thiocyanate, Benzaldehyde, Benzene Hexachloride, Bendizine Hydrochloride, Benzoic Acid, Benzoyl Chloride, Benzoyl Peroxide, Benzyl Alcohol, Benzyl Chloride, Benzyl Ethyl Aniline, Beta Ethoxyethyl Methacrylate, Beta Methylanthraquinone, Beta Naphthol, Beta Oxynaphthoic Acid, Boric Acid, Boron, Boron Oxide, Boron Carbide, Boron Trichloride, Butane, Butanol, Butyl Acetate, Butyl Alcohol, Butyl Lactate, Butyl Methacrylate, Butyl Tartrate, Butyraldehyde.

Cadmium Carbonate, Cadmium Chloride, Cadmium Oxide, Cadmium Sulfide, Calcium, Calcium Acetate, Calcium Alginate, Calcium Arsenate, Calcium Arsenite, Calcium Bisulfite, Calcium Borate, Calcium Borogluconate, Calcium Carbide, Calcium Carbonate, Calcium Chlorate, Calcium Chloride, Calcium Cyanamide, Calcium Fluoride, Calcium Formate, Calcium Gluconate, Calcium Hydroxide, Calcium Oxalate, Calcium Oxide, Calcium Phosphate, Calcium Silicate, Calcium Silicide, Calcium Stearate, Calcium Sulfate, Calcium Superphosphate, Camphor, Carbamide, Carbon, Carbon Bisulfide, Carbon Dioxide, Carbon Monoxide, Carbon Silicide, Carbon Tetrachloride, Carbon Tetrafluoride, Carbonyl Chloride, Casein, Cetylacetic Acid, Cetyl Pyridinium Bromide, Cetyl Trimethyl Ammonium Bromide, Chloroacetic Acid, Chlorobenzene, Chloropara-Phenylene Diamine Sulfate, Chlorophenyl - N - Isopropyl - Biguanide, Chlorosulfonic Acid, Chlorine Liquid, Chloroform, Chromium Acetate, Chromium Sesquioxide, Chromium Sulfate, Chromium Trioxide, Chrysoidine, Chrysophenine, Citric Acid, Citronine, Cobalt Acetate, Cobalt Ammonium Sulfate, Cobalt Borate, Cobalt Carbonate, Cobalt Chloride, Cobalt Hydroxide, Cobalt Linoleate, Cobalt Naphthenate, Cobalt Nitrate, Cobalt Phosphate, Cobalt Resinate, Cobalt Silicate, Cobalt Sulfate, Cobalt Oxide, Collodion, Copper Acetate, Copper Acetoarsenite, Cupric Arsenate, Cupric Arsenite, Cupric Carbonate, Cupric Chloride, Cuprous Chloride, Cuprous Cyanide, Copper Formate, Cupric Hydroxide, Copper Naphthenate, Cupric Nitrate, Cuprous Oxide, Copper Oxychloride, Cupric Resinate, Copper Stearate, Cupric Sulfate, Cuprous Sulfcyanide, Cuprous Thiocyanate, Creosote, Cresylic Acid.

Deuterium Oxide, Di-Acetin, Diamino Anisole Sulfate, Diamino Diphenylsulfone, Dibenxthiazyl Disulfide, Dibenxyl Sulfanilic Acid, Dibutyl Phthalate, Dichlor Aniline, Dichlor Benxene, Dichlor Difluoromethane, Dichlor Ethylene, Dichloromonofluoromethane, Dichloro Phenol, Diethyl Amine, Difluorodichloromethane, Dihydroxypentachloro-Triphenylmethane Sulphonic Acid, Dihydropyran, Dimethyl Amine, Dimethyl Aniline, Dimethyl Benzene, Dimethyl Carbonate, Dimethyl Ketone, Dimethyl Phenyl Benxyl Ammonium Chloride, Dinaphthyl Methane Disulfonic Acid, Dinitro Chlorbenzene, Dinitro Hydroxybenzene, Dinitro Ortho-Cresol, Dinitro Phenol, Difluoromonochloromethane, Di-Orthotolylguanidine, Diphenyl, Diphenyl Amine, Diphenyl Guanidine, Diquinolylurea Dimethosulfate, Disodium Phosphate, Ditolylguanidine.

Eosine Dyestuffs, Ethoxyethyl Methacrylate, Ethyl Acetate, Ethyl Amine, Ethyl Aniline, Ethyl Chloride, Ethyl Chlorocarbonate, Ethyl Chloroformate, Ethyl Ether, Ether Lactate, Ether Methyl Cellulose, Ether Methyl Ketone, Ethylene, Ethylene Chlorhydrin, Ethylene Dichloride, Ethylene Glycol, Ethylene Oxide, Ethylidine, Ethylidine Aniline, Ethylidine Lactic Acid, Formaldehyde, Formic Acid, Furan, Furfuryl Alcohol, Gallic Acid, Gallotannic Acid, Gentian Violet, Glycerine, Glyceryl Monostearate, Tracetate and Triaterate, Glycyl Alcohol, Guanidine Nitrate.

Hexachloro Butadiene, Hexamethylenetetramine, Hexanol, Hydrochloric Acid, Hydrocyanic Acid, Hydrofluoric Acid, Hydrofluosilicic Acid, Hydrogen Chloride, Hydrogen Cyanide, Hydrogen Fluoride, Hydrogen Peroxide, Hydroxypropionic Acid, Indian Red, Iron (Ferric) Acetate, Iron (Ferrous) Acetate, Iron (Ferric and Ferrous) Ammonium Sulfates, Iron (Ferrous) Aluminium Sulfate, Iron (Ferrous) Ammonium Citrate, Iron (Ferrous) Carbonate, Iron Citrate, Iron (Ferric) Hydroxide, Iron Oxalate, Iron (Ferrous) Sulfate, Iron (Ferric) Sulfate, Iron Sesquisulfate, Iron Tersulfate, Iron (Ferric) Sulfate, Iron Persulfate, Iron Protosulfate, Isolactic Acid, Isopropyl Alcohol, Isopropylxanthate, Iron Subsulfate, Lactic Acid, Lead Acetate, Lead Arsenate, Lead Borate, Lead Borofluoride, Lead Carbonate, Lead Fluoborate, Lead Fluoride, Lead Linoleate, Lead Nitrate, Lead Oleate, Lead Oxide, Lead Monoxide, Lead Resinate, Lead Silicate, Lead Stearate, Lead Sulfide, Lithium Carbonate, Lithium Chloride, Lithium Nitrate, Lithium Oxalate.

Magenta Dyestuffs, Magnesium Carbonate, Magnesium Chloride, Magnesium Fluoride, Magnesium Oxide, Magnesium Silicate, Magnesium Silicofluoride, Magnesium Stearate, Magnesium Sulfate, Maleic Acid, Malic Acid, Malonic Acid, Manganese Acetate, Manganese Borate, Manganese Carbonate, Manganese Chloride, Manganese Dioxide, Manganese Dentoxide, Manganese Peroxide, Manganese Linoleate, Manganese Napthenate, Manganese Resinate, Manganese Sulfate, Menthol, Mercaptobenxthiaxole, Mercury Chloride, Mercury Fulminate, Meta Dinitrobenzene, Meta Dinitrotoluene, Meta Nitroaniline, Meta Nitroparatoluidine, Meta Para-Cresol, Meta Phenylene Diamine, Meta Toluidine, Meta Tolnylene Diamine, Meta Xylidine, Metaform Lactic Acid, Metaldehyde, Metanil Yellow, Metanilic Acid, Methacrylamide, Methacrylic Acid, Methyl Acetone, Methyl Alcohol, Methyl Amine, Methyl Anthraquinone, Methyl Benzene, Methyl Chloride, Methyl Chloroformate, Methyl Ethyl Ketone, Methyl Methacrylate, Methyl Phenol, Methyl Rosaniline Chloride, Methyl Sulfate, Methyl Thiouracil, Methyl Violet, Methylene Blue, Methylene Chloride, Methylene Dichloride, Methylic Alcohol, Monammonium Phosphate, Monobenxyl Sulfanilic Acid, Monochlor Acetic Acid, Monochlor Benxene, Monochloro Difluormethane, Monochloro Trifluoroethane, Monochloro Trifluoromethane, Monoethyl Amine, Monoethylenilline, Monofluorodichloromethane, Monofluorotrichloromethane, Monomethyl Amine, Mononitro Resorcinol, Monosodium Phosphate.

Naphthalene Trisulfonic Acid, Naphthalene, Naphthalene 2-Sulfonic Acid, Beta Naphthol, Naphthoxyethanol, Naphthylamine, Nickel Acetate, Nickel Ammonium Sulfate, Nickel Carbonate, Nickel Chloride, Nickel Fluoride, Nickel Formate, Nickel Hydroxide, Nickel Nitrate, Nickel Oxalate, Nickel Oxide, Nickel Sulfate, Nicotine, Nigrosine Acid Dyestuffs, Nitric Acid, Nitro Aniline, Nitro Benzene, Nitro Cellulose, Nitro Chlorbenzene, Nitro Glycerine, Nitro Resorcinol, Nitrocelluiose, Nitrosodiphenylamine, Nonyl Alcohol, Octyl Cresol, Oleic Acid, Ortho Aminobenzoic Acid, Ortho Aminophenol, Ortho Anisidine, Ortho Chloraniline, Ortho Chlorbenzaldehyde, Ortho Chlorparanitraniline, Ortho Dichlorbenzene, Ortho Nitraniline, Ortho Nitrochlorbenzene, Ortho Nitrohydroxybenzene, Ortho Nitrophenol, Ortho Nitrotoluene, Ortho Toluidine, Ortho Xylidine, Oxalic Acid, Oxytoluene.

Para Amino-Acetanilide Hydrochloride, Para Aminodimethylaniline Sulfate, Para Aminophenol Hydrochloride, Para Chloraniline, Para Dichlorbenzene, Para Nitraniline, Para Nitrochlorbenxene, Para Nitrophenol, Para Nitrotoluene, Para Octyl Phenol, Para Phenylenediamine, Para Toluidine, Pentachlorethane, Pentaerythritol, Phenol, Phenol-Formaldehyde, Phenyl Acetate, Phenyl Benzyldimethyl Ammonium Chloride, Phenyl Ethyl Dithiocarbamic Acid, Phenyl Mercuric Acetate, Phenyl Methane, Phenyl

Naphthylamine, Phthalic Anhydride, Phthalocyanine, Polychlornaphthalene, Polyethylene, Polymethyl Methacrylate, Polytetrafluoroethylene, Polyvinyl Acetate, Polyvinyl Alcohol, Polyvinyl Chloride, Potassium Aluminium Sulfate, Potassium Antimonium Tartrate, Potassium Bicarbonate, Potassium Bichromate, Potassium Bifluoride, Potassium Carbonate, Potassium Chlorate, Potassium Chloride, Potassium Chromate, Potassium Cyanide, Potassium Ferricyanide, Potassium Ferrocyanide, Potassium Fluoride, Potassium Hydroxide, Potassium Metabisulfite, Potassium Nitrate, Potassium Acid Oxalate, Potassium Binoxalate, Potassium Hydrogen Oxalate, Potassium Quadroxalate, Potassium Tetroxalate, Potassium Percarbonate, Potassium Perchlorate, Potassium Permanganate, Potassium Persulphate, Potassium Silicate, Potassium Silicofluoride, Potassium Sodium Cyanide, Potassium Sulfate, Potassium Acid Tartrate, Potassium Bitartrate, Potassium Hydrogen Tartrate, Potassium Antimonium Tartrate, Potassium Sodium Tartrate, Potassium Thiocyanate, Potassium Sulfocyanide, Pigments Whose Color Changes With the Temperature, Potassium Titanium Oxalate, Potassium Xanthate, Proguanil, Propane, Pyridine, Pyrogallic Acid, Pyroxylin, Quebracho Extract, Quinoline.

Safranine Dyestuffs. Salicylic Acid, Selenium Oxide, Silicon Carbide, Dioxide, and Tetrachloride, Sodium Acetate, Sodium Alginate, Sodium Aluminate, Sodium Antimoniate, Sodium Arsenate, Sodium Arsenite, Sodium Azide, Sodium Bicarbonate, Sodium Bichromate, Sodium Bifluoride, Sodium Bisulfate, Sodium Bisulfite, Sodium Borate, Sodium Borofluoride, Sodium Carbonate, Sodium Carboxy Methyl Cellulose, Sodium Chloride, Sodium Chromate, Sodium Cyanide, Sodium Dibenzyl Sulfanilate, Sodium Diethyldithio Carbamate, Sodium Ferricyanide, Sodium Ferrocyanide, Sodium Fluoborate, Sodium Fluoride, Sodium Bifluoride, Sodium Aluminium Fluoride, Sodium Antimonium Fluoride, Sodium Fluosilicate, Sodium Formate, Sodium Hexametaphosphate, Sodium Hydrosulfide Solution, Sodium Hydrosulfite, Sodium Hydroxide, Sodium Hypochlorite, Sodium Hyposulfite, Sodium Isopropyixanthate, Sodium Metabisulfite, Sodium Monobenzyl Sulfanilate, Sodium Naphthionate, Sodium Nitrate, Sodium Nitrite, Sodium Oxalate, Sodium Perborate, Sodium Percarbonate, Sodium Perchlorate, Sodium Peroxide, Sodium Persulfate, Sodium Phenate, Sodium Phosphate, Sodium Potassium Cyanide, Sodium Potassium Tartrate, Sodium Stannate, Sodium Sulfate, Sodium Sulfide, Sodium Sulfite, Sodium Sulfocyanide, Sodium Tannate, Sodium Tartrate, Sodium Thiosulfate, Sodium Xanthate, Stearic Acid, Stearine, Strontium Carbonate, Strontium Chloride, Strontium Hydroxide, Strontium Nitrate, Strontium Oxalate, Strontium Sulfate, Sulfadimethylpyrimidine, Sulfadimidine, Sulfaguanidine, Sulfanilic Acid, Sulfur, Sulfur Chloride, Sulfur Dichloride, Sulfur Dioxide, Sulfur Hexafluoride, Sulfur Monochloride, Sulfuric Acid, Sulfuric Ether, Sulfurous Acid, Sulfuryl Chloride.

Tannic Acid, Tartaric Acid, Terpene Hydrochloride, Tetrachlor Ethane, Tetraethylthiuram, Tetraethylthiuram Disulfide, Tetraethylthiuram Monosulfide, Tetrahydro Furan, Tetrahydro Furfuryl Alcohol, Thiocarbanilide, Thiodiglycol, Thioglycollic Acid, Titanium Potassium Oxalate, Titanium Sulfate, Titanium Tetrachloride, Titanium (Titanic) Chloride, Titanium (Titanous) Chloride, Toluidine, Triacetin, Trichlor Methane, Trichlor Monofluoromethane, Tricresyl Phosphate, Trethanolamine, Trifluoro Acetic Acid, Trifluoro Ethanol, Trifluoro Monochloroethane, Trifluoro Monochloromethane, Trifluoro Trichloroethane, Trifluoro Trichloropropene, Triethyl Amine, Trimethyl Amine, Trimethyl Hexanol, Trinitro Resorcinol, Trinitro Toluene, Triphenyl, Triphenyl Chloroethylene, Triphenyl Guanidine, Triphenyl Phosphate, Trisodium Phosphate, Tristearine, Urea, Urea-Formaldehyde, Vinyl Acetate, Vinyl Chloride, Xylene, Xylidine, Xylidine Acetate, Zinc Acetate, Zinc Carbonate, Zinc Chloride, Zinc Cyanide, Zinc Di-n-Butyldithiocarbamate, Zinc Diethyldithiocarbamate, Zinc Fluoarsenate, Zinc Fluoride, Zinc Hydrosulfite, Zinc Isopropyixanthate, Zinc Nitrate, Zinc Oxide, Zinc Phenyl Ethyl Dithiocarbamate, Zinc Selenite, Zinc Silicofluoride, Zinc Stearate, Zinc Subcarbonate, Zinc Sulfate.

Ser. No. 603,772. The Diversey Corporation, Chicago, Ill. Filed Sept. 20, 1950. (Sec. 2f.)

## PARA PACK

For Combination Package of a Moth Repellent Closet Deodorant With Means for Dispensing the Volatile Ingredients Thereof—Namely, a Container With Perforations Which Is Capable of Being Refilled With the Ingredients Per Se, All Being Sold as a Unit, and Refills Therefor.

Claims use since Jan. 27, 1936.

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Ser. No. 618,350. Fred F. Forrest, trading and doing business as Forrest's Greenhouses, Waxahachie, Tex. Filed Sept. 4, 1951.

IVY SATIN GLOSS

The descriptive words "Ivy" and "Gloss" are disclaimed apart from the mark as shown.

For Chemical Compound Applicable to the Foliage of Plants for Improving and Preserving Their Appearance.

Claims use since May 3, 1951.

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Ser. No. 620,503. Gordon Chemical Co., Inc., Kansas City, Mo. Filed Oct. 26, 1951.

TERMI-TOX

Applicant disclaims the term "Tox" apart from the mark as shown.

For Liquid Wood Preservative for Preventing Rot, Fungi, and Other Wood Degrading Organisms and for the Extermination and Prevention of Termites and Other Insects.

Claims use since Aug. 1, 1939.

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Ser. No. 622,648. Gairee Products Company, Inc., New York, N. Y. Filed Dec. 18, 1951.

## REGAL

Applicant claims ownership of Registrations Nos. 287,526 and 508,414.

For Room Deodorant To Disinfect and Perfume the Air.

Claims use since Nov. 16, 1951.

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Ser. No. 622,655. Reefer-Gailer, Incorporated, New York, N. Y. Filed Dec. 18, 1951.

## 3 - WAY

For Room Deodorant To Disinfect and Perfume the Air.

Claims use since Nov. 16, 1951.

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Ser. No. 622,889. Gairee Products Company, Inc., New York, N. Y. Filed Dec. 27, 1951.

## GALCO

For Insecticides.

Claims use since Dec. 12, 1951.



Ser. No. 624,959. Magnaflux Corporation, Chicago, Ill. Filed Feb. 14, 1952.

## Partek

For Material for Use in Locating Cracks and Defects in Porous Bodies, Consisting of Concentrates, Finely Divided Suspensions, Pigments and Powders, and Liquids for Preparing the Suspensions.

Claims use since Mar. 10, 1948.

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Ser. No. 627,369. Monsanto Chemical Company, St. Louis, Mo. Filed Apr. 14, 1952.

## OPALON

Applicant claims ownership of Registration No. 383,002.

For Synthetic Resins and Synthetic Resinous Compositions Whether in the Form of Powders, Granules, Emulsions, Dispersions, or Solutions.

Claims use since May 28, 1940.

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Ser. No. 630,484. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed May 29, 1952.

## CHEMO-CAST

The word "Cast" is disclaimed apart from the mark as shown.

For Resinous Composition Used To Form Molds for Casting Purposes.

Claims use since May 20, 1952.

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Ser. No. 630,570. V. S. Babcock, doing business as V. S. Babcock Sales Co., San Francisco, Calif. Filed June 2, 1952.

BUG-MIX

The word "Bug" is hereby disclaimed apart from the mark as shown in the drawing.

For Pest Control Pads—Namely, Chemically Treated Pads for Killing Insects.

Claims use since Apr. 29, 1952.

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Ser. No. 631,139. Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Filed June 13, 1952.

## ADOL

For Fatty Alcohols for Further Use in Manufacture as De-Foaming Agents, Emulsifiers, Intermediates, Penetrants, Plasticizers, and Stabilizers.

Claims use since Mar. 7, 1952.

Ser. No. 631,286. Graton & Knight Company, Worcester, Mass. Filed June 17, 1952.

CRAKO Sprazon

The applicant disclaims the word "Sprazon" apart from the mark as shown. Applicant claims ownership of Registration No. 417,010.

For Leather Belt Dressing and Conditioner.

Claims use since May 27, 1952.

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Ser. No. 637,731. Sun Chemical Corporation, Long Island City, N. Y. Filed Nov. 6, 1952.

## WARCOLENE

Applicant claims ownership of Registration No. 379,421.

For Chemical Composition for Use as a Lubricating, Rewetting, and Softening Agent in the Treatment and Finishing of Textiles.

Claims use since January 1948.

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Ser. No. 639,114. W. C. Hardesty Co., Inc., New York, N. Y. Filed Dec. 6, 1952.

CENTURY BRAND

The word "Brand" is disclaimed apart from the mark as shown.

For Double Distilled Animal Fatty Acids, Double Distilled Corn Oil Fatty Acids, Double Distilled Cottonseed Fatty Acids, Double Distilled Soya Fatty Acids, Glycerine, Hydrogenated Animal Fatty Acids, Hydrogenated Fish Fatty Acids, Oleic Acid, Stearic Acid.

Claims use since Oct. 28, 1952.

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Ser. No. 641,247. Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Filed July 12, 1952.

## Synthofil

Applicant claims ownership of German Registration No. 463,733, dated Feb. 22, 1934; and United States Registration No. 325,351.

For Polyvinyl Alcohol.

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Ser. No. 643,034. Exomet, Incorporated, Conneaut, Ohio. Filed Mar. 3, 1953.

## INGOTHERM

For Exothermic Compound.

Claims use since Apr. 12, 1946.

Ser. No. 643,051. Takamine Laboratory, Inc., Clifton, N. J. Filed Mar. 3, 1953.

DeeGee

For Enzyme Preparation for Use in the Oxidation of Glucose to Gluconic Acid.
Claims use since Feb. 24, 1953.

Ser. No. 643,052. Takamine Laboratory, Inc., Clifton, N. J. Filed Mar. 3, 1953.

DeeO

For Enzyme Preparation for Use in the Oxidation of Glucose to Gluconic Acid.
Claims use since Feb. 20, 1953.

## CLASS 10

### FERTILIZERS

Ser. No. 626,027. Ferro Corporation, Cleveland, Ohio. Filed Mar. 6, 1952.



Applicant claims ownership of Registrations Nos. 387,511, 419,064, and others.
For Friable Glass-Like Substances in Finely Divided Form Containing Essential Plant Foods for Use as a Fertilizer.
Claims use since Mar. 9, 1948.

Ser. No. 637,102. Adco Limited, London and Harpenden, England. Filed Oct. 24, 1952.

"ADRICHU"

Applicant claims ownership of British Registration No. 681,492, dated Aug. 4, 1949.
For Compost Activators and Accelerating Materials and Fertilising Materials.

Ser. No. 641,635. Oswego Soy Products Corporation, Oswego, N. Y. Filed Feb. 2, 1953.

FERALON

For Combination Plant Food and Soil Conditioner.
Claims use since Jan. 7, 1953.

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 557,724. Gustav J. Bostrom, doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Filed May 25, 1948. (Sec. 2f as to "Supergrate.")




The representation of steel grating is disclaimed apart from the mark. Applicant claims ownership of Registration No. 544,732.
For Open-Type Flooring Made of Metal.
Claims use since Mar. 23, 1948, on the mark as shown; and since Sept. 3, 1937, on the word "Supergrate."

Ser. No. 581,544. Weyerhaeuser Timber Company, Tacoma, Wash. Filed July 5, 1949.

SILVACEL

For Wood Fiber for Use as Insulation Material for Insulating Buildings and Particularly Cold Storage and Locker Plants, for Insulating Refrigerator Cabinets, Hot Water Heater Tanks, and the Like.
Claims use since Nov. 19, 1948.

Ser. No. 607,398. Reflective Insulation Company, Detroit, Mich. Filed Dec. 7, 1950.

ALUMI-THERM

For Metallic Insulation Material Consisting of Reflective Aluminum Sheets for Use as Interior or Exterior Finish of Walls and Ceilings.
Claims use since Oct. 11, 1949.

Ser. No. 614,624. Great Lakes Carbon Corporation, New York, N. Y. Filed June 1, 1951.

Permalite

Applicant claims ownership of Registrations Nos. 433,858 and 531,713.
For Expanded Perlite for Use as Insulating Material, and as an Ingredient in Plaster, Concrete, Insulating Board.
Claims use since Aug. 9, 1944.

Ser. No. 622,262. Augustine John Kiefer, doing business as Kiefer Manufacturing Co., Pittsburgh, Pa. Filed Dec. 8, 1951.

KUROFROST

For Storm Windows, Storm Doors, Window Screens, and Screen Doors.
Claims use since April 1944.



Ser. No. 628,376. Universal Form Clamp Co., Chicago, Ill. Filed Apr. 19, 1952.

UNIVERSAL

Applicant claims ownership of Registration No. 283,449.
For Concrete Construction Forms and Parts for the Forms.
Claims use since January 1920.

Ser. No. 632,591. Binswanger & Co., Incorporated, Richmond, Va. Filed July 16, 1952. (Sec. 2f.)

Air Seal

For Double Hung Window Units.
Claims use since 1940.

Ser. No. 633,315. Multnomah Plywood Corporation, Portland, Oreg. Filed July 31, 1952.

NOMAH-PLY

The word "Ply" is disclaimed apart from the mark as shown on the drawing.
For Plywood.
Claims use since June 23, 1952.

Ser. No. 635,681. Bond-Howell Lumber Company, Jacksonville, Fla., assignor to Con-Dor Corporation of America, Jacksonville, Fla., a corporation of Florida. Filed Sept. 24, 1952.

CON DOR

No exclusive claim is made to the word "Dor" apart from the mark as shown on the drawing.
For Packaged Door Units, Consisting of Door, Frame, Trim, and Hardware Attached.
Claims use since Sept. 11, 1952.

Ser. No. 636,225. Emco Cement Products, Inc., Paxinos, Pa. Filed Oct. 6, 1952.

Blendstone

For Mixture of Sand, Cement Waterproofing Agent, Hardener, and Mineral Coloring To Be Used in Making Artificial Building Stone.
Claims use since May 10, 1952.

Ser. No. 636,293. Hixon-Peterson Lumber Company, Toledo, Ohio. Filed Oct. 7, 1952. (Sec. 2f.)

THE PICK OF THE TREES

For Lumber, Millwork, Wooden Flooring, Plywood, and Shingles.
Claims use since July 1920.

Ser. No. 636,396. Jack Woodrow, Indianapolis, Ind. Filed Oct. 8, 1952.

CON-T-RAP

No claim is made to "T-rap" apart from the mark as shown on the drawing.
For Metal Traps With Drainage Holes To Be Placed Inside of a Downspout To Trap Debris But Permit Free Flow of Water, and Metal Baffle Traps To Be Installed in Drainage End of a Downspout Pipe Which Will Allow Drainage of Water While Trapping Debris.
Claims use since July 1, 1952.

Ser. No. 636,541. Leon H. Schlough, St. Cloud, Minn. Filed Oct. 11, 1952.

GRAN-A-STONE

The applicant disclaims the word "Stone" apart from the mark as shown.
For Split Concrete Building Blocks and Bricks.
Claims use since May 3, 1952.

Ser. No. 638,036. Starline Inc., Harvard, Ill. Filed Nov. 7, 1952.

STARLINE

Applicant claims ownership of Registrations Nos. 200,639, 206,738, and others.
For Pens and Corrals and Gates Therefor, Stalls and Partitions Therefor, Windows and Steel Columns.
Claims use since 1931 as shown; and since 1910 in the form shown in Registration No. 206,738.

Ser. No. 638,55.. Peerless Plastics, Culver City, Calif. Filed Nov. 24, 1952.

SCOT-TILE

The word "Tile" is disclaimed apart from the mark as shown.
For Interior Decorative Wall Tile.
Claims use since Nov. 10, 1952.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 611,227. I. D. Company, New York, N. Y. Filed Mar. 13, 1951.

Baret Ware

The word "Ware" is disclaimed apart from the mark as shown.
For Decorated Metallic Receptacles—Namely, Dishes and Trays.
Claims use since Feb. 16, 1951.

Ser. No. 617,976. Stephen A. Young Corporation, Flora, Ind. Filed Aug. 22, 1951.

Lo-Li-Line

The word "Line" is disclaimed apart from the mark as shown in the drawing.

For Plumbing Fixtures—Namely, Tub Filler Valve Units, Spouts, Shower Valves and Heads, Diverter Valves, Combination and Plain, Sink, Bath, Lavatory, and Laundry Faucets, Pop-Up and Bath Drains, Bibbs and Compression Stops, and Parts Therefor—Namely, Stems, Valve Seats, Escutcheon Nipples, Escutcheon Bushings, and Escutcheons.

Claims use since May 18, 1951.

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Ser. No. 620,627. Snap Products Corp., Syracuse, N. Y., assignor, by mesne assignments, to Snap Products Corp., Chicago, Ill., a corporation of Illinois. Filed Oct. 29, 1951. (Sec. 2f.)

SNAP-in

For Replacement Faucet Seats.
Claims use since 1934.

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Ser. No. 632,205. The Gilbert & Bennett Mfg. Co., Georgetown, Conn. Filed July 7, 1952.

PERMA-GARD

The word "Gard" is hereby disclaimed apart from other features of the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 410,911 and 519,615.

For Welded Galvanized Wire Mesh Fabric Sold in Rolls.
Claims use since Sept. 16, 1941.

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Ser. No. 638,686. Broil-Away Corporation, Venice, Fla. Filed Nov. 28, 1952.

BROIL-AWAY

The word "Broil" is disclaimed apart from the mark as shown.

For Disposable Broiling Pan.
Claims use since Nov. 17, 1952.

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Ser. No. 638,785. Tenco, Inc., Winona, Minn. Filed Nov. 29, 1952.

MILEX

For Plastic Pipe Fittings, Viz: Elbows, T's, Y's, Reducers, Caps, Unions, and Adapters.
Claims use since Apr. 14, 1952.

Ser. No. 640,422. Anesite Company, Chicago, Ill. Filed Jan. 7, 1953.

Black-Buty

For Pipe Made From Plastic Material and Pipe Fittings Made From Plastic Material and Comprising Elbows, Adapters, and T's.
Claims use since on or about Dec. 8, 1952.

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Ser. No. 640,990. Wittek Manufacturing Co., Chicago, Ill. Filed Jan. 19, 1953.

STAR

For Hose Clamps.
Claims use since Feb. 8, 1921.

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Ser. No. 641,095. Silent Sentry, Inc., Hollywood, Calif. Filed Jan. 21, 1953.

SILENT SENTRY

For Fire Extinguisher Brackets.
Claims use since Aug. 26, 1952.

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Ser. No. 641,160. West Bend Aluminum Co., West Bend, Wis. Filed Jan. 22, 1953. (Sec. 2f.)

KWIK DRIP

Applicant claims ownership of Registration No. 303,491.
For Coffee Makers.
Claims use since June 19, 1930.

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## CLASS 15

### OILS AND GREASES

Ser. No. 612,497. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Apr. 11, 1951.

Pneu-Lube

The exclusive right to use the word "Lube," is disclaimed, apart from the mark as shown.

For Lubricating Oils.
Claims use since Jan. 8, 1951.



Ser. No. 618,948. Will & Baumer Candle Co., Inc., Syracuse, N. Y. Filed Sept. 18, 1951.

Twistolite

For Wax Candles.
Claims use since July 24, 1951.

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Ser. No. 621,446. The Baker Castor Oil Company, Jersey City, N. J., and New York, N. Y. Filed Nov. 20, 1951. (Sec. 2f.)

BAKERS

For Aliphatic Alcohol Esters of Ricinoleic Acid, Which Are Used as Upper Cylinder Lubricants.
Claims use since 1935.

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Ser. No. 637,393. Pacific Lubricants Company, Montebello, Calif. Filed Oct. 30, 1952.

Auto Moly

The word "Auto" shown on the drawing is hereby disclaimed apart from the mark as shown.

For Lubricating Oil Additives Containing Molybdenum Disulphide.
Claims use since Mar. 15, 1952.

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Ser. No. 637,864. Columbia-Bedford Corporation, New York, N. Y. Filed Nov. 10, 1952.

ENGIN-MOLY

No claim is made to the term "Engin" except in combination with the mark as shown.

For Lubricating Oil.
Claims use since Oct. 28, 1952.

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## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 640,995. American-Marietta Company, Chicago, Ill. Filed Jan. 21, 1953.

Rev MASONRY

The word "Masonry" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 416,995.

For Paint in Paste Form for Exterior and Interior Use.
Claims use since Dec. 1, 1952.

Ser. No. 641,206. Plas-Kem Corporation, Burbank, Calif. Filed Jan. 23, 1953.

VEE-NOL

For Plastic Coating in the Nature of Paint.
Claims use since Aug. 1, 1952.

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## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 620,809. Larus & Brother Company, Richmond, Va. Filed Nov. 2, 1951. (Sec. 2f.)

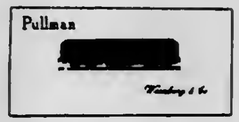
ROLL RITE

Applicant claims ownership of Registrations Nos. 297,025 and 300,379.

For Smoking Tobacco.
Claims use since Oct. 3, 1931; and since June 27, 1951, in the form shown.

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Ser. No. 634,920. Rothmans Limited, also trading as Weinberg & Company, London, England. Filed Sept. 5, 1952.




The trade name "Weinberg & Co." and the outline of the label are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of British Registrations Nos. 392,982, dated July 3, 1919, and B.659,259, dated May 19, 1947.

For Cigarettes, Cigars, and Smoking Tobacco.

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## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 605,258. The House of Stuart Incorporated, Newark, N. Y. Filed Oct. 21, 1950.

PEDAGREE

For Antiseptic Foot Powder.
Claims use since Aug. 4, 1950.

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Ser. No. 618,586. Lepetit S. p. A., Milan, Italy. Filed Sept. 10, 1951.

TIOFENICINA

Applicant claims ownership of Italian Registration No. 100,545, dated Feb. 6, 1951.

For Chemical-Pharmaceutical Products—Namely, Antibiotics.

Ser. No. 626,039. Mattox and Moore, Inc., Indianapolis, Ind. Filed Mar. 6, 1952.

## TEND-A-WATE

For Injectable Estrogen-Containing Composition for Administration to Poultry and Other Animals.
Claims use since Jan. 1, 1950.

Ser. No. 626,939. Feedstuffs Processing Company, Oakland, Calif. Filed Mar. 24, 1952.

## Thrifty minerals

No claim is made to the word "Minerals" apart from the mark as shown.
For Mineral Supplement for Livestock and Poultry Feeds.
Claims use since June 15, 1951.

Ser. No. 627,266. Sanford Kornfield, doing business under the name and style of K & L Drug Company, Oakland, Calif. Filed Mar. 29, 1952.

## VAGICITO

For Vaginal Suppositories.
Claims use since Feb. 29, 1952.

Ser. No. 627,659. American Lecithin Co. Inc., New York and Woodside, N. Y. Filed Apr. 7, 1952.

## LECIPET

For Dietary Supplements for Feeding Dogs Containing Lecithin, Vitamins, and Nutritional Essentials.
Claims use since Jan. 1, 1946.

Ser. No. 627,679. Irving A. Forster, doing business under the name of Citra Products, Chicago, Ill. Filed Apr. 7, 1952.

## CITRA-C

The final letter "C" is disclaimed apart from the mark.
For Antiacid Analgesic Tablets.
Claims use since Dec. 8, 1951.

Ser. No. 631,243. Sanford Lovely, doing business as Kolmer Laboratories, Madison, Tenn. Filed June 16, 1952.

## EARISOL

For Solution for the Temporary Relief of Minor Simple Earache.
Claims use since Feb. 1, 1950.

Ser. No. 634,021. Louis I. Weiner, doing business under the firm name and style, Tablax Company, New York, N. Y. Filed Aug. 6, 1952.

## MARVOSAN

Applicant claims ownership of Registration No. 278,907.
For Vaginal Antiseptics and Antiseptic Compounds.
Claims use since Sept. 1, 1927.

Ser. No. 637,710. Jessie Katlen, doing business as Roo-Amin Co., Rochester, N. Y. Filed Nov. 6, 1952.

## ROO-AMIN

Applicant disclaims the term "Amin" apart from the mark as shown.
For Medicinal Tablets Utilized as an Aid To Relieve and Control Pain and Symptoms of Arthritis, Rheumatism, and Muscular Aches.
Claims use since Sept. 24, 1952.

Ser. No. 637,980. American Chicle Company, Long Island City, N. Y. Filed Nov. 13, 1952.



The mark consists of a blue disc having an opening in the form of a cross.
For Medicated Chewing Gum.
Claims use since Oct. 15, 1952.

Ser. No. 638,095. S. Pfeiffer Manufacturing Company, St. Louis, Mo. Filed Nov. 14, 1952.

## TRYO-CREME

The word "Creme" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 570,561.
For Medicaments—Namely, External Application for the Prevention of Infection in Minor Skin Abrasions and Surface Wounds, Minor Burns and Scalds, Cuts, Bruises, and Scratches.
Claims use since Apr. 25, 1952.

Ser. No. 638,681. Aktiebolaget Leo, Helsingborg, Sweden. Filed Nov. 28, 1952.

## REACTHIN

No claim is made to the exclusive use of the term "Acth" apart from the mark shown in the drawing. Applicant claims ownership of Swedish Registration No. 71,949, dated May 9, 1952.
For Pharmaceutical Preparations Having Acth Activity.

Ser. No. 639,662. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Dec. 17, 1952.

## DARSTINE

For Anticholinergic Preparation.
Claims use since Oct. 29, 1952.

Ser. No. 639,663. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Dec. 17, 1952.

## FERMICIDIN

For Antibiotic Preparation for Use in Antibacterial Therapy.
Claims use since Oct. 29, 1952.



Ser. No. 639,665. Sharp & Dohme Incorporated, Philadelphia, Pa. Filed Dec. 17, 1952.

## RELTINE

For Anticholinergic Preparation.
Claims use since Oct. 29, 1952.

Ser. No. 639,679. The Upjohn Company, Kalamazoo, Mich. Filed Dec. 17, 1952.

## Vitatropic

For Lipotropic Preparation.
Claims use since Nov. 4, 1952.

Ser. No. 639,787. Dora Center Snyder, doing business as Center Products Co., Ilion, N. Y. Filed Dec. 19, 1952.

## TU-EZ

For Foot Cream Indicated for the Relief of Pain and Soreness Caused by Corns and Callouses or Walking or Standing Long Periods.
Claims use since Apr. 14, 1952.

Ser. No. 640,901. Baxter Laboratories, Inc., Morton Grove, Ill. Filed Jan. 19, 1953.

## Gentran

For Parenteral Solutions Comprising Dextran in a Saline Solution.
Claims use since Jan. 7, 1953.

Ser. No. 640,964. Riker Laboratories, Inc., Los Angeles, Calif. Filed Jan. 19, 1953.

## Serpiloid

For Medicinal Tablets for the Treatment of Hypertension.
Claims use since Oct. 28, 1952.

### CLASS 19

### VEHICLES

Ser. No. 617,072. Ateliers de la Motobecane, Pantin (Seine), France. Filed July 28, 1951.



Priority is claimed under Sec. 44(d). French application filed May 2, 1951, Registration No. 411,963, dated May 2, 1951.
For Motorcycles.

Ser. No. 617,086. La Motoconfort, Pantin (Seine), France. Filed July 28, 1951.



Priority is claimed under Sec. 44(d). French application filed May 2, 1951, Registration No. 411,962, dated May 2, 1951.
For Motorcycles.

Ser. No. 620,871. Continental Copper & Steel Industries, Inc., New York, N. Y., and Perth Amboy, N. J. Filed Nov. 5, 1951. (Sec. 2f.)

## ELLING INNER HULL

The words "Inner Hull" are disclaimed apart from the mark as shown.
For Lifeboats.
Claims use since Apr. 1, 1940.

Ser. No. 638,169. Storkline Furniture Corporation, Chicago, Ill. Filed Nov. 15, 1952.

## Storkline

Applicant claims ownership of Registrations Nos. 144,237, 283,608, and others.
For Baby Strollers, Baby Carriages, Baby Coaches, and Children's Combination Walker-Strollers.
Claims use since 1919.

Ser. No. 644,010. Casco Products Corporation, Bridgeport, Conn. Filed Mar. 23, 1953.

## CASCO

Applicant claims ownership of Registration No. 524,799.
For Wire Wheel Hubs.
Claims use since Mar. 6, 1953.

### CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 630,710. Hansen Manufacturing Company, Incorporated, Princeton, Ind. Filed June 4, 1952.

## MAGNATORC

For Small Direct Current Electric Motors for Instrument Timing.
Claims use since Nov. 16, 1950.

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 524,979. D. P. Harris Hardware & Manufacturing Co., Inc., New York, N. Y. Original filed, act of 1905, June 27, 1947; amended to application under act of 1946, Principal Register, Nov. 10, 1948. (Sec. 2f.)

WINCHESTER

For Children's Bicycles.
Claims use since 1920.

Ser. No. 624,487. Healthways, Los Angeles, Calif. Filed Feb. 4, 1952.

CHAMPION

For Swivels for Overhead Suspension of Punching Bags.
Claims use since May 1951.

Ser. No. 626,125. The United States Playing Card Company, Cincinnati, Ohio. Filed Mar. 7, 1952. (Sec. 2f.)

STANDARD PLAYING CARD CO.

Applicant claims ownership of Registrations Nos. 59,701, 224,242, and 293,587.
For Playing Cards.
Claims use since 1906.

Ser. No. 637,111. Caterpillar Tractor Co., Peoria, Ill. Filed Oct. 24, 1952.

CATERPILLAR

Applicant claims ownership of Registrations Nos. 79,056, 85,816, and others.
For Toy Replicas of Wheel Tractors, Track-Type Tractors, Bulldozers, Dump Wagons, Motor Graders, Scrapers, and Rippers.
Claims use since December 1932.

Ser. No. 637,452. Julia Steven Krafft, doing business as Honey Bear Farm, Genoa City, Wis. Filed Oct. 31, 1952.

HONEY BEAR

For Dolls.
Claims use since June 1952.

Ser. No. 640,063. Bally Manufacturing Company, Chicago, Ill. Filed Dec. 27, 1952.

SPACE-SHIP

The word "Ship" is disclaimed apart from the mark.
For Coin-Controlled Amusement Device in the Nature of a Simulated Aircraft With Motor-Means Controlled by Occupant for Producing Motion Effects.
Claims use since Nov. 10, 1952.

Ser. No. 645,980. B. F. Gladding & Company, Inc., South Otselic, N. Y. Filed Apr. 27, 1953.

EXCELSIOR

For Fishing Lines.
Claims use since during August 1916.

Ser. No. 645,981. B. F. Gladding & Company, Inc., South Otselic, N. Y. Filed Apr. 27, 1953.

PLATYL

For Fishing Lines.
Claims use since during August 1951.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 527,493. J. L. Ferguson Company, Joliet, Ill. Filed July 5, 1947.

PACKOMATIC

For Packaging Machinery, Including as Exemplary Thereof but not Conclusive Because the Names of Apparatus in This Class Vary From Time to Time, Carton Making Machines; Carton-Tube Making Machines; Machines for Feeding Coupons or Other Inserts Into Filled or Unfilled Cartons; Carton Capping Machines; Carton Cap Shrinking Machines; Machines for Opening and Feeding Cartons Into Filling Position; Carton Filling Machines; Carton Liner Forming and Inserting Machines; Carton Sealing Machines; Carton Conveying Machines; Carton Turning Machines; Labeling Machines; Label and Paper Cutting Machines; Label Dryers; Packing and Wrapping Tables; Can or Other Receptacle Storage Conveyors; Marking and/or Dating Apparatus for Receptacles, Containers and Packing Cases; Container Opening Apparatus; Container Loading Apparatus; Container Closing Apparatus; Container Sealing Apparatus; Container Conveying Apparatus; Grain Puffing Apparatus; Grain Puffing Apparatus Complete as Mounted on Vehicle Chassis and Also Sold Unmounted; Candy-Making Machines Consisting of a Complete Unit Including Mixing Machinery; Candy Bar Enrobing Machines; Candy Bar Cutting Machines; Oat Hullers; Oat Hull Feeders; Machines for Cleaning and Grading Grain; Chaff and Grain Separators (Sometimes Denoted Aspirators); Weed Extractors, i. e., Machines for Separating Weeds From Grain; Grain Flakes Feeders; Cereal Processing Tanks With Mixing Machinery Included; Molasses Treating Tanks or Vats With Mixing Machinery Included; Macaroni Making Machines and Repair Parts Therefor; Extrusion Dies for Macaroni Machines; Polishing Machines for Rice and Drums for Said Machines; Barley Pearlers; Corn and Wheat Scourers; Woodworking Machines for Pointing Lath Embodied in Snow Fences; Snow-Fence Making Machines; Punch Presses; Punch Press Dies; Draw Rings for Polishing the Inside of the Ring Part of Punch Press Die; Windmills and Parts Thereof; Receptacle-Cap Printing Presses; Machine Tools—Namely, Jigs and Fixtures for Making Detection Apparatus, Bomb and Shell Parts; Control Apparatus and Steering Apparatus for Submarine Vessels—Namely, Gears, Wheels, and Other Similar Parts Therefor; Machines for Assembling Shell Detonators; Punching Dies for Making Practice Bombs, Bomb and Shell Parts; Grain Percussion Primer Tool for Crimping Assembly Fixture and/or To Be Used as a Fixture To Insert Percussion Element in Shells and Bombs; Dies and Repair Parts for the Foregoing; and Special Packaging Mechanical Machinery Made to Order, and of a Fashion To Be Associated With or Used in the Same Plant as Any of Said Foregoing Apparatuses.
Claims use since 1929.



Ser. No. 527,494. J. L. Ferguson Company, Joliet, Ill. Filed July 5, 1947.

JFC

For Packaging Machinery, Including as Exemplary Thereof but not Conclusive Because the Names of Apparatus in This Class Vary From Time to Time, Carton Making Machines; Carton-Tube Making Machines; Machines for Feeding Coupons or Other Inserts Into Filled or Unfilled Cartons; Carton Capping Machines; Carton Cap Shrinking Machines; Machines for Opening and Feeding Cartons Into Filling Position; Carton Filling Machines; Carton Liner Forming and Inserting Machines; Carton Sealing Machines; Carton Conveying Machines; Carton Turning Machines; Labeling Machines; Label and Paper Cutting Machines; Label Dryers; Packing and Wrapping Tables; Can or Other Receptacle Storage Conveyors; Marking and/or Dating Apparatus for Receptacles, Containers and Packing Cases; Container Opening Apparatus; Container Loading Apparatus; Container Closing Apparatus; Container Sealing Apparatus; Container Conveying Apparatus; Grain Puffing Apparatus; Grain Puffing Apparatus Complete as Mounted on Vehicle Chassis and Also Sold Unmounted; Candy-Making Machines Consisting of a Complete Unit Including Mixing Machinery; Candy Bar Enrobing Machines; Candy Bar Cutting Machines; Oat Hullers; Oat Hull Feeders; Machines for Cleaning and Grading Grain; Chaff and Grain Separators (Sometimes Denoted Aspirators); Weed Extractors, i. e., Machines for Separating Weeds From Grain; Grain Flakes Feeders; Cereal Processing Tanks With Mixing Machinery Included; Molasses Treating Tanks or Vats With Mixing Machinery Included; Macaroni Making Machines and Repair Parts Therefor; Extrusion Dies for Macaroni Machines; Polishing Machines for Rice and Drums for Said Machines; Barley Pearlers; Corn and Wheat Scourers; Woodworking Machines for Pointing Lath Embodied in Snow Fences; Snow-Fence Making Machines; Punch Presses; Punch Press Dies; Draw Rings for Polishing the Inside of the Ring Part of Punch Press Die; Windmills and Parts Thereof; Receptacle-Cap Printing Presses; Machine Tools—Namely, Jigs and Fixtures for Making Detection Apparatus, Bomb and Shell Parts; Control Apparatus and Steering Apparatus for Submarine Vessels—Namely, Gears, Wheels, and Other Similar Parts Therefor; Machines for Assembling Shell Detonators; Punching Dies for Making Practice Bombs, Bomb and Shell Parts; Grain Percussion Primer Tool for Crimping Assembly Fixture and/or To Be Used as a Fixture To Insert Percussion Element in Shells and Bombs; Dies and Repair Parts for the Foregoing; and Special Packaging Mechanical Machinery Made to Order, and of a Fashion To Be Associated With or Used in the Same Plant as Any of Said Foregoing Apparatuses.
Claims use since on or about 1921.

Ser. No. 549,942. New Jersey Machine Corporation, Hoboken, N. J. Filed Feb. 17, 1948. (Sec. 2f.)

SPEEDFEED

For Electrically Operated, Automatic Machines for Manufacturing Set-Up Paper Boxes and in Which an Adhesive Coating Is Applied to a Paper Wrap, a Set-Up Box Is Registered on the Adhealvely Coated Paper Wrap, the Paper Wrap Is Seasoned, One Side of the Paper Wrap Is Brushed Up Against a Wall of the Box, and the Thus Prepared Box and Wrap Assembly Is Inserted Into a Box Wrapping Machine.
Claims use since Oct. 23, 1931.

Ser. No. 567,637. Landis Machine Company, Waynesboro, Pa. Filed Oct. 26, 1948. (Sec. 2f.)

LANDIS

Applicant claims ownership of Registrations Nos. 177,617, 233,269, and others.
For Cutter Heads, Thread-Cutting Machines, and Cutters Therefor, Collapsible Taps, Chaser Grinding Machines, Thread Grinding Machines, Roller Pipe Cutting Machines, and Thread Rolling Machines.
Claims use since October 1921.

Ser. No. 583,433. Goldtone Razor Blade Co., Inc., Newark, N. J. Filed Aug. 13, 1949. (Sec. 2f.)

Silvertone

For Razor Blades.
Claims use since Aug. 23, 1939.

Ser. No. 585,697. Alexander E. Brenner, Columbus, Ohio. Filed Oct. 3, 1949.

FIRE CHIEF

Applicant claims ownership of Registration No. 309,390.
For Portable Fire Extinguishers.
Claims use since Dec. 21, 1948.

Ser. No. 589,422. Butterworth System, Incorporated, Bayonne, N. J. Filed Dec. 16, 1949. (Sec. 2f.)

BUTTERWORTH

For Tank Cleaning Machines—Namely, a Nozzle Device Rotatable by Mechanical Means, in Combination With a Reservoir for Tank Cleaning Fluid, for Cleaning Cargo Tanks of Marine Vessels and the Like.
Claims use since July 26, 1930.

Ser. No. 600,542. Leslie Co., Lyndhurst, N. J. Filed July 12, 1950. (Sec. 2f.)

LESLIE

Applicant claims ownership of Registration No. 255,623.
For Diaphragm-Operated Valves, Diaphragm-Operated Reducing Valves, Diaphragm-Operated Pilot Regulating Valves, Diaphragm-Operated Regulating Valves, Diaphragm-Operated Control Pilots, Internal Pilot-Operated Valves, and Piston-Operated Valves.
Claims use since Nov. 28, 1938.

Ser. No. 605,250. The Bert Mills Corporation, Lombard, Ill. Filed Oct. 21, 1950.

Coffee BAR

The word "Coffee" is disclaimed apart from the mark as shown.

For Coffee Vending Machine.

Claims use since on or about Feb. 1, 1948.

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Ser. No. 605,867. Pan American Trade Development Corp., New York, N. Y. Filed Nov. 3, 1950.

**PANAMAR**

For Vehicle Engine Bearings and Mufflers for Gasoline Vehicles.

Claims use since May 26, 1950.

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Ser. No. 610,246. Clark Bros. Co., Inc., Olean, N. Y., assignor to Dresser Operations, Inc., Olean, N. Y., a corporation of California. Filed Dec. 27, 1950. (Sec. 2f.)

**CLARK**

Applicant claims ownership of Registration No. 531,955.

For Centrifugal Compressors, Axial Flow Compressors, Gas Turbines, Radial Expansion Turbines Sometimes Known as Hot Air Turbines, Pipe Line Boosters.

Claims use since July 1935, on the mark as shown; and since Mar. 8, 1947, on the mark shown, on the goods shown.

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Ser. No. 613,239. Replacement Unit Company, Cleveland, Ohio. Filed Apr. 27, 1951. (Sec. 2f.)

**RE-NU**

For Automotive Clutch Units, Clutch Pressure Assemblies, Clutch Plates, Transmissions, Fluid Drive Units, and Parts Thereof.

Claims use since on or about Apr. 1, 1940.

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Ser. No. 618,740. Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Filed Sept. 13, 1951. (Sec. 2f as to "Davis.")

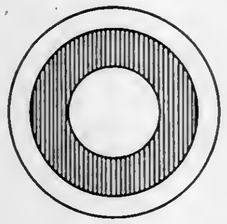
DAVIS

For the purpose of this registration, applicant disclaims any exclusive right to the representation of the calibrated dial apart from the trade-mark, as shown, without disclaiming any common law rights that applicant may have. Applicant claims ownership of Registration No. 184,431.

For Metal Cutting Tools, Generally Boring Tools, and Block-Type Cutters; Boring Tool Sets; Cutter Grinders; and Parts Thereof.

Claims use since Sept. 23, 1948, on the mark as shown; and since Oct. 24, 1903, as to "Davis."

Ser. No. 619,116. Jervis B. Webb Company, Detroit, Mich. Filed Sept. 21, 1951.



The mark consists of a concentric red band applied to the face of a trolley wheel between the hub and rim thereof.

For Trolleys for Conveyors.

Claims use since February 1930.

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Ser. No. 619,225. Associated Manufacturers International Corporation, Chicago, Ill. Filed Sept. 26, 1951.

AMICO

The mark shown on the drawing has an outline border for color and the specific color claimed is red.

For Agricultural Equipment—Namely, Tractors, Plows, Harrows, Combines, Threshers, Hammer Mills, Forage Harvesters—Namely, Machine for Harvesting Forage Crops Such as Green Hay, and Cotton Pickers.

Claims use since Dec. 15, 1948.

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Ser. No. 623,713. Hemphill Company, Pawtucket, R. I. Filed Jan. 17, 1952.



The representations of the machine and stocking feet are disclaimed.

For Textile Knitting Machines and Parts Thereof.

Claims use since Sept. 1, 1948.



Ser. No. 627,724. Von Ruden Manufacturing Co., Clarement, Minn. Filed Apr. 7, 1952.

Hydra-Flex

For Hydraulic Chain Saws.

Claims use since on or about Nov. 1, 1950.

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Ser. No. 630,763. The Cowles Company, Cayuga, N. Y. Filed June 5, 1952.

**BEATAPULPER**

For Slushing, Defibering, and Refining Machine for Preparing Paper Stock.

Claims use since Aug. 8, 1951.

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Ser. No. 631,989. Frederick E. Henning, doing business as Henning Electric Motor Co., Fargo, N. Dak. Filed June 30, 1952. (Sec. 2f.)

Alaska

For Earth Drilling Augers of the Machine-Driven Type.

Claims use since Dec. 18, 1946.

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Ser. No. 632,786. The International Silver Company, Meriden, Conn. Filed July 19, 1952.

**GARDEN MANOR**

Applicant claims ownership of Registration No. 325,054.

For Stainless Steel Flatware—Namely, Knives, Forks, and Spoons for Table Use.

Claims use since on or about June 6, 1952.

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Ser. No. 633,336. Sherman Products, Inc., Royal Oak, Mich. Filed July 31, 1952.

Sherman S.P. Products

The words "Sherman" and "Products" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 531,611.

For Change Speed Transmissions, Power Operated Diggers for Attachment to Tractors and Trucks and Parts Thereof.

Claims use since on or about July 18, 1952.

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Ser. No. 633,660. Clark Equipment Company, Buchanan, Mich. Filed Aug. 9, 1952.

**YARDLIFT**

For Power Operated Fork Trucks Designed for Localized Use in Loading, Unloading, Tiering, Transferring, and Stacking of Merchandise and the Like.

Claims use since July 20, 1947.

Ser. No. 634,681. Cafa-Roll, Inc., Carthage, Mo. Filed Aug. 30, 1952.

Cafa-roll

The word "Cafa" is disclaimed apart from the mark shown in the drawing.

For Electrically Driven Apparatus Comprising a Continuous Conveyor Belt Having a Succession of Food Supporting Carriers for Serving Food in Restaurants by Moving the Food From the Kitchen to the Point of Consumption by the Customer.

Claims use since Apr. 2, 1951.

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Ser. No. 638,438. Royal Hair Pin Corporation, New York, N. Y. Filed Nov. 21, 1952.

Nellie Martin

The words "Smooth Stitch" are herewith disclaimed apart from the mark as shown. The name "Nellie Martin" refers to a particular living person, consent given. Applicant claims ownership of Registration No. 410,203.

For Industrial Sewing Machine Needles, Home Sewing Machine Needles, and Hand Sewing Needles.

Claims use since Dec. 14, 1951.

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Ser. No. 638,938. Cherry-Burrell Corporation, Chicago, Ill. Filed Nov. 28, 1952. (Sec. 2f.)

**MILWAUKEE**

Applicant claims ownership of Registration No. 365,996.

For Automatic and Hand Operated Bottle Filling and Capping Machinery.

Claims use since January 1915.

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Ser. No. 639,606. Ansul Chemical Company, Marinette, Wis. Filed Dec. 17, 1952.



The mark consists of two superimposed circles slightly spaced from each other, the upper one being slightly smaller in diameter than the lower one, and a vertical bar positioned adjacent the right side of the circles slightly spaced therefrom giving the impression of a conventionalized letter "a."

For Coil-Flushing Gun for Refrigerating Systems.

Claims use since July 5, 1952.

Ser. No. 639,732. Ariens Company, Brillion, Wis. Filed Dec. 19, 1952. (Sec. 2f as to "Ariens.")

Ariens
YARDSTER

Applicant claims ownership of Registrations Nos. 396,784 and 510,552.

For Wheeled, Motor Operated Tillage Machine Including Lawn Mower and Snow Removal Attachments.

Claims use since Sept. 24, 1952, as to the mark shown; and since 1932, as to the name "Ariens."

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Ser. No. 640,413. Schlage Lock Company, San Francisco, Calif. Filed Jan. 6, 1953. (Sec. 2f.)

SCHLAGE

Applicant claims ownership of Registrations Nos. 205,373, 539,861, and 565,022.

For Boring Jigs, Boring Bits, Metal Templates, Tools Comprising Rods and Supports for Assembling Locks, and Mortising Tools for Forming Recesses.

Claims use since October 1924.

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Ser. No. 640,950. Modern Sales Company, Los Angeles, Calif. Filed Jan. 19, 1953.

MrBarLaddie

The word "Bar" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 442,976.

For Combination Ice Pick, Bottle Opener, Seal Breaker, Ice Crusher, Cork Screw, Muddler, and Measuring Jigger.

Claims use since May 28, 1948.

## CLASS 26

## MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 619,950. Rand Rubber Company, Inc., Brooklyn, N. Y. Filed Oct. 12, 1951.

SMOKIES

For Light Controlling Attachments for Eyeglasses in the Form of Lens Shaped Pressure Sensitive (Plastic) Sheet Material.

Claims use since May 25, 1951.

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Ser. No. 622,666. Stanley M. Lewis, doing business as Conant Bros. Company, Somerville, Mass. Filed Dec. 19, 1951.

Hide-a-Weigh

The word "Weigh" is disclaimed apart from the mark as shown.

For Weighing Scales.

Claims use since Aug. 20, 1951.

Ser. No. 624,228. Columbia Protektosite Company, Inc., Carlstadt, N. J. Filed Jan. 29, 1952.

OPTICOOL

For Sun Glasses.

Claims use since Oct. 23, 1951.

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Ser. No. 631,073. Taylor Instrument Companies, Rochester, N. Y. Filed June 11, 1952.

BI-ACT

For Pneumatic, Automatic Controllers for Controlling Temperature, Pressure, Liquid Level, Rate of Flow, and Like Variables.

Claims use since Nov. 10, 1951.

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Ser. No. 631,832. Well Instrument Developing Co., Houston, Tex. Filed June 26, 1952.

Widco

For Well Logging Apparatus for Indicating and Recording the Earth Formation Penetrated in the Course of the Drilling for Oil and Gas Wells and the Like.

Claims use since Mar. 21, 1950.

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Ser. No. 635,762. General Precision Laboratory Incorporated, Pleasantville, N. Y. Filed Sept. 25, 1952.




The words "Precision Laboratory Incorporated" are disclaimed apart from the mark as shown.

For Motion Picture Cameras, Motion Picture Film Processors for Developing, Fixing, Washing, and Drying Motion Picture Film, Motion Picture Projectors, and Parts Thereof.

Claims use since Aug. 21, 1950.

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Ser. No. 635,961. General Precision Laboratory Incorporated, Pleasantville, N. Y. Filed Sept. 30, 1952.




For Motion Picture Cameras, Motion Picture Film Processors for Developing, Fixing, Washing, and Drying Motion Picture Film, Motion Picture Projectors and Parts Thereof.

Claims use since Aug. 21, 1950.



Ser. No. 636,169. Federal Products Corporation, Providence, R. I. Filed Oct. 4, 1952.

ELECTRICATOR

For Dial Gages Equipped With Electrical Contacts for Initiating Electrical Action at High and Low Limits.

Claims use since Oct. 23, 1947.

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Ser. No. 637,724. Irving W. Ruderman, doing business as Larco Nuclear Instrument Company, Palisades Park, N. J. Filed Nov. 6, 1952.

LARCO

For Instruments and Apparatus for Detection, Indication, or Measurement of Nuclear or Other Radiation—Namely, Scintillation Counters, Synthetic Single Crystals, Synthetic Optically Clear Crystals, Scintillation Counter Crystals, Mounted or Encased Phosphors for Scintillation Counters, Mountings and Casings for Scintillation Counter Crystals, Optical Couplings for Scintillation Counter Crystals, Mountings for Scintillation Counting Crystals, Scintillation Counter Shields, Scintillation Detection Appliances, Scintillation Counters With Electronic Circuits, Combinations of Scintillating Phosphors With Electronic Amplifying and Recording Devices, Mounted and Hermetically Sealed Scintillation Counter Crystals, and Appliances and Equipment for Monitoring, Integrating, or Recording Radioactivity.

Claims use since May 22, 1950.

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Ser. No. 640,705. X-Ray Products Corporation, North Hollywood, Calif. Filed Jan. 13, 1953.

Scopemaster

For Industrial Fluoroscopic and Radiographic Apparatus, and Parts Thereof.

Claims use since Apr. 15, 1952.

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Ser. No. 640,788. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Jan. 15, 1953.

BROWNIE

Applicant claims ownership of Registration No. 398,154.

For Motion Picture Projectors, and Projection Screens.

Claims use since Nov. 26, 1952.

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Ser. No. 640,922. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Jan. 19, 1953. (Sec. 2f.)

AUTOPOSITIVE

Applicant claims ownership of Registration No. 400,803.

For Sensitized Photographic Film, Sensitized Photographic Paper, Sensitized Photographic Plates, and Sensitized Photographic Cloth.

Claims use since Nov. 1, 1938.

Ser. No. 640,923. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Jan. 19, 1953.

DUPLITIZED

Applicant claims ownership of Registration No. 133,125.

For Sensitized Photographic Film, Sensitized Motion-Picture Film, and Sensitized Photographic Paper.

Claims use since June 1, 1918.

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Ser. No. 640,956. Ocean Photo Supply Co., Inc., New York, N. Y. Filed Jan. 19, 1953.




For Cameras.

Claims use since Nov. 18, 1947.

## CLASS 29

## BROOMS, BRUSHES, AND DUSTERS

Ser. No. 613,951. The Wooster Brush Company, Wooster, Ohio. Filed May 16, 1951. (Sec. 2f.)

WOOSTER

For Paint Applying Devices—Namely, Brushes and Roller Applicators.

Claims use since 1890.

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Ser. No. 629,611. Herbert R. Kirby, doing business as Kirby Industries, Temple City, Calif. Filed May 13, 1952.

K. F.

For Roofing Mops and Mop-Like Applicators for Roofing Asphalt and Other Roof Coating Materials.

Claims use since November 1946.

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Ser. No. 631,150. Davidson Corporation, Chicago, Ill. Filed June 13, 1952.

WIPORITES

For Small Unwoven Cellulose Pads for Applying Lithographic Solutions to Lithographic Plates.

Claims use since Mar. 27, 1952.

## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 635,363. Wesley A. Harting, doing business as United States Soft Water Company, Kansas City, Mo. Filed Sept. 17, 1952.




The word "Soft" is disclaimed apart from the mark shown in the drawing.

For Water Softener of the Ion Exchange-Type and Integral Parts Thereof.

Claims use since Aug. 15, 1952.

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Ser. No. 635,765. Great Lakes Carbon Corporation, New York, N. Y. Filed Sept. 25, 1952.

NEROFIL

For Filter Aids Made of Powdered Carbon.

Claims use since Sept. 11, 1952.

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## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 590,151. The Globe-Wernicke Co., Cincinnati, Ohio. Filed Dec. 30, 1949. (Sec. 2f as to the name "Wernicke.")




The lining is part of the design of the mark and does not represent color. Applicant claims ownership of Registrations Nos. 64,493, 63,441, and others.

For Steel Desks, Steel Tables, Steel Costumers, Steel Filing Cabinets, Steel Bookcases, Steel Map Cabinets, Steel Book Shelf Cases, Steel Document File Cases, Steel Roller Shelf Cases, Steel Storage Cabinets, Steel Wardrobes, Steel Combination Storage Cabinets and Wardrobes, Steel Telephone Stands, Aluminum Chairs, Steel Storage Cases, Steel Card Cabinets, Steel Letter File Cases, and Wood Library Furniture—Namely, Charging Desks, Book Shelving, Bookcases With Doors, Tables, Study Tables, Benches, Chairs, Charging Trays, Card Catalog Cases, Filing Cabinets, Cupboards, Atlas and Dictionary Stands, Display Racks, Newspaper Racks, Magazine Racks, Exhibition Cases, Display Cases, Pamphlet Cases, Box Files, Book Ends, Wood and Steel Desk Trays, Desk Drawer Stationery Cabinets, File Boxes, Card Cabinets, Wood and Paper Card Trays, Costumers, Storage Cases, Swinging Desk Shelves, Filing Shelves, Correspondence Distributors and Stands, Note Cases, Document Cases, and Shelf Boxes.

Claims use since October 1949, as shown; and since May 1894, as to the name "Wernicke."

Ser. No. 623,193. Insulation Manufacturing Company, Inc., Brooklyn, N. Y. Filed Jan. 4, 1952.

GEM WOOD

No claim is made to the word "Wood" apart from its use in applicant's trade-mark.

For Molded Plastic Tops for Tables, Desks, and Counters.

Claims use since in or about October 1950.

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Ser. No. 630,358. Steel Service, Inc., Steubenville, Ohio. Filed May 27, 1952.

JET-LOK

No claim is made to the exclusive use of the term "Lok" alone.

For Metal Clothes Cabinets or Lockers.

Claims use since Apr. 14, 1952.

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Ser. No. 636,395. Wheeldex Manufacturing Co., Inc., White Plains, N. Y. Filed Oct. 8, 1952.

CURVE-DEX

Applicant disclaims the right to the exclusive use of the word "Curve," apart from the other features of the trade-mark shown in the drawing.

For Portable Filing Trays for File Cards.

Claims use since June 1943.

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Ser. No. 638,062. Carolina Mirror Corporation, North Wilkesboro, N. C. Filed Nov. 14, 1952.




For Wall and Furniture Mirrors.

Claims use since Aug. 4, 1952.

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Ser. No. 638,293. H. G. Finch, Rocky Mount, N. C. Filed Nov. 19, 1952.

MEASURITE

For Venetian Blinds.

Claims use since Oct. 29, 1952.



## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 622,498. Jackson & Church Company, Saginaw, Mich. Original filed, act of 1946, Supplemental Register, Dec. 14, 1951; amended to application, Principal Register, Nov. 26, 1952.




Applicant claims ownership of Registrations Nos. 413,148 and 519,435.

For Heating Furnaces Using Solid Fuel or Gaseous Fuel, Such as Coal, Coke, Peat, Fuel Oil, Artificial and Natural Gas, Autoclaves for Heating Liquids of All Kinds.

Claims use since July 1949.

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Ser. No. 628,590. Victrylite Candle Company, Oshkosh, Wis. Filed Apr. 23, 1952.

Tinylabra

For Holders of a Plurality of Candles.

Claims use since Mar. 31, 1952.

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## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 628,016. United States Rubber Company, New York, N. Y. Filed Apr. 12, 1952.

CURB GUARD

Applicant claims ownership of Registration No. 298,072.

For Pneumatic Automobile Tires.

Claims use since Apr. 2, 1952.

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Ser. No. 633,545. Laminated Shim Company, Incorporated, Glenbrook, Conn. Filed Aug. 6, 1952.

LAMITAB

Applicant claims ownership of Registration No. 344,377.

For Shims.

Claims use since July 3, 1952.

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Ser. No. 640,502. Detroit Gasket & Manufacturing Company, Detroit, Mich. Filed Jan. 8, 1953.

Steelbestos

Applicant claims ownership of Registrations Nos. 319,354 and 516,430.

For Metal Sheets Protected on One or Both Sides by a Layer of Asbestos Treated so as To Be Oil, Gas, and Water Resistant, and Intended for Making Gaskets for Internal Combustion Engines and Associated Parts Thereof.

Claims use since Oct. 14, 1930.



Ser. No. 643,197. Tide Water Associated Oil Company, New York, N. Y. Filed Mar. 5, 1953.




Applicant claims ownership of Registrations Nos. 140,382, 169,274, and others.

For Tires Made of Rubber or a Combination of Rubber and Fabric or Other Material.

Claims use since Oct. 14, 1952, as to the mark shown; and since Dec. 31, 1909, as to the word "Federal."

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## CLASS 39

### CLOTHING

Ser. No. 638,598. New England Overall Co. Inc., Boston, Mass. Filed Nov. 25, 1952.

FLANNEL-LAD

No claim is made to the word "Flannel" apart from the mark shown.

For Dungarees.

Claims use since July 17, 1952.

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Ser. No. 638,599. New England Overall Co. Inc., Boston, Mass. Filed Nov. 25, 1952.

FLANNEL-LASS

No claim is made to the word "Flannel" apart from the mark shown.

For Women's and Girls' Dungarees.

Claims use since July 17, 1952.

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## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 582,297. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to the name "Goodrich.")




The name "Goodrich" is the name of one of the founders of applicant's business. Applicant claims ownership of Registrations Nos. 64,996, 65,422, and others.

For Coated and Impregnated Fabrics of Natural and Synthetic Fibers (Including Cotton, Rayon, Nylon, and Glass); and Flexible Plastic Film; All Sold in Sheet Form for Making Into Garments, Umbrellas, Draperies, and the Like.

Claims use since about March 1946.

Ser. No. 626,049. Sage Laboratories, Inc., New York, N. Y. Filed Mar. 6, 1952.

Sage

Applicant claims ownership of Registration No. 502,423.
For Cheesecloth.
Claims use since October 1951.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 625,816. Personal Products Corporation, North Brunswick Township, N. J. Filed Mar. 1, 1952.



The dark background is not part of the mark but is included in the drawing merely to present the mark.
For Sanitary Napkin Belts.
Claims use since Feb. 13, 1952.

Ser. No. 630,445. Will Ross, Inc., Milwaukee, Wis. Filed May 28, 1952.

AREN

For Sanitary Belts.
Claims use since Apr. 9, 1952.

Ser. No. 632,251. H. D. Justi & Son, Inc., Philadelphia, Pa. Filed July 8, 1952.




The representation of the tooth and the word "Teeth" are disclaimed except in association with the mark. The drawing is lined for red. Applicant claims ownership of Registration No. 559,558.
For Artificial Teeth.
Claims use since June 2, 1952.

Ser. No. 633,124. Julius Schmid, Inc., New York, N. Y. Filed July 26, 1952.

SHEIK

Applicant claims ownership of Registrations Nos. 295,024 and 338,648.
For Prophylactic Rubber Articles for the Prevention of Contagious Disease.
Claims use since on or about Jan. 7, 1949.

Ser. No. 634,936. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Sept. 6, 1952.

Fedway

For Hair Driers, Electric Heating Pads for Therapeutic Use, Manicure Scissors, and Syringes.
Claims use since Dec. 28, 1951.

Ser. No. 639,193. Julius Schmid, Inc., New York, N. Y. Filed Dec. 8, 1952.

Ramses

Applicant claims ownership of Registrations Nos. 247,841, 258,759, and others.
For Vaginal Jelly Applicators.
Claims use since on or about Dec. 1, 1938.

Ser. No. 642,688. Piper Brace Co., Kansas City, Mo. Filed Feb. 24, 1953.

PIPEER

For Sacroiliac Supports.
Claims use since Dec. 11, 1952.

Ser. No. 643,162. William C. Hunneman, Jr., Philadelphia, Pa. Filed Mar. 5, 1953.

JUVO

For Device Consisting of a Combination of Rollers for Massaging Tired Feet.
Claims use since Feb. 19, 1953.

Ser. No. 643,963. Johnson & Johnson, New Brunswick, N. J. Filed Mar. 20, 1953.

ZOROC

For Bandages.
Claims use since Mar. 18, 1953.



## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 571,626. Well & Company, Cleveland, Ohio. Filed Jan. 4, 1949.

WORLD WIDE

For Coffee.
Claims use since Apr. 24, 1933.

Ser. No. 580,429. Claude A. Reed, Omaha, Nebr., assignor to Whirla-Whip, Inc., Omaha, Nebr., a corporation of Delaware. Filed June 14, 1949.

Whirla-Whip

No claim is made to the word "Whip" apart from the mark as shown.
For Frozen Milk Confection.
Claims use since Feb. 6, 1949.

Ser. No. 587,461. Attorney General of the United States, Office of Alien Property, Department of Justice, Washington, D. C. Filed Nov. 8, 1949.

AJI-NO-MOTO

The mark is the representation in Latin characters of the phonetic equivalent in English of Japanese symbols which may be translated as "Element of Taste." Applicant claims ownership of Registrations Nos. 183,274 and 341,824.
For Seasoning, the Principal Ingredient of Which Is Mono Sodium Glutamate of 99% Purity for Food Flavoring Purposes.
Claims use since 1909 in Japan; and use in commerce between foreign nations and the United States in March 1913.

Ser. No. 588,449. The Northwestern Elevator & Mill Co., Mount Vernon and Toledo, Ohio. Filed Nov. 28, 1949.

SNOW FLUFF

Applicant disclaims the word "Fluff" apart from the mark as shown.
For White Wheat Flour for Cake or Bread.
Claims use since Jan. 1, 1942.

Ser. No. 601,503. Milgram Food Stores, Inc., Kansas City, Mo. Filed July 31, 1950.




The drawing is lined for the colors red and yellow but no claim is made to color. The picture of the man illustrates a fanciful character.
For Bread: Fresh, Canned, and Frozen Fruits and Vegetables.
Claims use since during March 1946.

Ser. No. 613,154. Bensdorp N. V., Bussum, Netherlands. Filed Apr. 26, 1951.

SAANDAM

For Cocoa.
Claims use since Apr. 19, 1950; and since Apr. 19, 1950, in commerce between the Netherlands and the United States.

Ser. No. 622,256. G. B. Products, Inc., Utica, N. Y. Filed Dec. 8, 1951.

DAIRY DEW

The word "Dairy" as shown in the drawing is disclaimed.
For Sweet-Spread for Bread, Toast, Muffins, Waffles, Pancakes, Ice Cream, and the Like Containing Whole Milk, Non-Fat Milk Solids, Water, Sugar, and Artificial Flavoring.
Claims use since Oct. 13, 1951.

Ser. No. 622,312. Richmond-Chase Company, San Jose, Calif. Filed Dec. 10, 1951.




The words "Diet and Dietetic Food" and the representation of fruit shown in the drawing are disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 134,276 and 433,701.
For Canned Fruits—Namely, Apricots, Cherries, Peaches, Pears, and Fruit Cocktail; Canned Vegetables—Namely, Tomatoes, Asparagus, and Spinach; and Canned Juices—Namely, Tomato Juice.
Claims use since March 1950.

Ser. No. 625,798. Hartz Mountain Products, New York, N. Y. Filed Mar. 1, 1952.



The drawing is lined for red and the stippling shown thereon represents shading. Applicant claims ownership of Registration No. 329,227.

For Bird Feeds.

Claims use since Feb. 9, 1933.

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Ser. No. 626,010. Sunkist Growers, Inc., Los Angeles, Calif. Filed Mar. 5, 1952.

**Sunkist**

Applicant claims ownership of Registrations Nos. 72,087, 85,069, and others.

For Fresh Citrus Fruits: Natural Strength and Concentrated, Frozen and Unfrozen Citrus Juices; and Citrus Oils, Citric Acid, and Pectin, All Used as Ingredients of Foods.

Claims use since Oct. 10, 1907.

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Ser. No. 627,701. Price Candy Company, Kansas City, Mo. Filed Apr. 7, 1952.



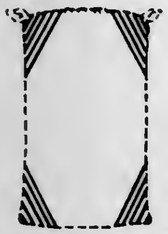

No claim is made to the word "Candy" apart from the mark in its entirety. Applicant claims ownership of Registrations Nos. 386,220 and 549,245.

For Candy.

Claims use since Oct. 12, 1926.

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Ser. No. 627,829. Northern Milling Company, Wausau, Wis. Filed Apr. 9, 1952.



The trade-mark consists of the representation of five diagonal stripes displayed in the four corners of the sacks, labels, signs, and other displays.

For Formula Mixed Feeds for Live Stock and Poultry.

Claims use since Sept. 1, 1935.

Ser. No. 628,875. Peter Reeves Markets, Inc., New York, N. Y. Filed Apr. 29, 1952.




The word "Brand" is disclaimed apart from the mark as shown.

For Coffee and Tea.

Claims use since Feb. 1, 1942.

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Ser. No. 630,652. The Ellis Popcorn Company, Murray, Ky. Filed May 20, 1952.




The drawing is lined for the color blue.

For Packaged, Unpopped Popcorn.

Claims use since Mar. 5, 1949.

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Ser. No. 631,936. Litchfield Creamery Co., Litchfield, Ill. Filed June 28, 1952.




Applicant claims ownership of Registration No. 265,695.

For Butter.

Claims use since Jan. 31, 1924.

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Ser. No. 632,087. A. E. Illes Company, Dallas, Tex. Filed July 2, 1952.

**FLAV-O-RIBBON**

For Syrup Used in the Making of Ice Cream.

Claims use since May 30, 1952.

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Ser. No. 633,364. Hoak Packing Company, Inc., Fresno, Calif. Filed Aug. 1, 1952.

**LUPA**

The word "Lupa" is an Italian word meaning "She Wolf."

For Fresh Grapes.

Claims use since September 1937.



Ser. No. 633,491. Leo B. Dehymel, Pasadena, Calif. Filed Aug. 5, 1952.




For Cookies.

Claims use since July 30, 1952.

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Ser. No. 635,529. The Fleming Co., Incorporated, Topeka, Kans. Filed Sept. 20, 1952. (Sec. 2f as to "Fleming's.")

**FLEMING'S**
*Flavor-rich*

The words "Flavor-Rich" are disclaimed apart from the mark as shown in the drawing.

For Coffee.

Claims use since Aug. 3, 1940.

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Ser. No. 636,240. Ferol A. Lower, doing business as Pappy's Products, House Springs, Mo. Filed Oct. 6, 1952.

**PAPPY'S**

For Sassafras Tea Concentrate.

Claims use since Sept. 3, 1952.

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Ser. No. 636,308. Rice Growers Association of California, Sacramento, Calif. Filed Oct. 7, 1952.

**SELLO ROJO**

The mark may be translated in English as "Red Seal." Applicant claims ownership of Registration No. 375,077.

For Rice.

Claims use since Nov. 28, 1932.

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Ser. No. 636,574. United Meat Packers, Rotterdam, Netherlands. Filed Oct. 13, 1952.




Applicant disclaims the word "Dutch" except as shown. "Dutch Glory" is an English translation of the Dutch "Hollands Glorie" which is the official name of a tulip variety originally produced by the well known Dutch grower LeFeber.

For Canned Ham.

Claims use since Dec. 28, 1950; and use in commerce between Netherlands and the United States since Dec. 28, 1950.

Ser. No. 636,856. Milne-O'Berry Packing Co. Inc., St. Petersburg, Fla. Filed Oct. 18, 1952.

**THE BLUE and the GRAY**

For Fresh Oranges and Grapefruit.

Claims use since May 15, 1930.

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Ser. No. 636,882. Daniel Feed and Seed Co., Douglas, Ga. Filed Oct. 20, 1952.

*Cage Maid*

For Fresh Eggs.

Claims use since July 20, 1952.

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Ser. No. 638,398. The Borden Company, New York, N. Y. Filed Nov. 21, 1952.

**SILVER COW**



Applicant claims ownership of Registrations Nos. 49,081, 128,934, and others.

For Butter.

Claims use since Jan. 2, 1901.

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Ser. No. 639,051. J. H. Hobson Company, Philadelphia, Pa. Filed Dec. 5, 1952. (Sec. 2f.)

**HOBSON'S TASTY-COAT**

For Food Coating Made From Sweet Chocolate and Vegetable Fat.

Claims use since July 1947.

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Ser. No. 639,052. J. H. Hobson Company, Philadelphia, Pa. Filed Dec. 5, 1952. (Sec. 2f.)

**HOBSON'S THRIFTY-COAT**

For Food Coating Made From Sweet Chocolate and Vegetable Fat for Ice Cream Bars.

Claims use since July 1947.

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Ser. No. 639,430. Minoru Kimura, Seattle, Wash. Filed Dec. 13, 1952.

**SAMURAI**

"Samurai" was the name given Japanese feudal warriors of nobility.

For Canned Mandarin Oranges.

Claims use since June 30, 1952.

Ser. No. 639,478. Larry Lightner, Inc., Brownsville, Tex. Filed Dec. 15, 1952.

STRAIGHT SHOOTER

Applicant claims ownership of Registration No. 227,601.
For Fresh Citrus Fruit.
Claims use since Oct. 15, 1937.

Ser. No. 639,939. E. F. Kemp Corp., Somerville and Winter Hill, Somerville, Mass. Filed Dec. 23, 1952.



For Salted Nuts.
Claims use since 1931.

Ser. No. 640,631. Hilker & Bletsch Company, Chicago, Ill., and Cincinnati, Ohio. Filed Jan. 12, 1953.

TRIPPEROO

For Pancake Flour, Bran Muffin Mix, Biscuit Mix, Gingerbread Cake Mix, Maple Syrup Mix, Puddings, Sweet Milk Cocoa, Batter Mix for Making French Toast, Orange Juice Concentrate, Canned Welsh Rarebit Preparation, Dehydrated Bases for Making Chicken Noodle Soup, Beef Vegetable Soup, Brown Gravy, Chili Con Carne, Green Pea Soup and Navy Bean Soup; and Dehydrated Preparations for Making Vegetable Rice and Spaghetti Tomato Dinners.
Claims use since Jan. 1, 1951.

Ser. No. 640,671. Columbia River Packers Association, Inc., Astoria, Oreg. Filed Jan. 13, 1953.



Applicant claims ownership of Registrations Nos. 553,996, 553,997, and 554,041.
For Canned, Fresh, and Frozen Fish.
Claims use since Sept. 4, 1951.

Ser. No. 641,370. Deerfield Groves Company, Wabasso, Fla. Filed Jan. 27, 1953.

DEER-ONE

The drawing is lined for blue but the color is not claimed.
Applicant claims ownership of Registration No. 444,416.
For Fresh Citrus Fruits.
Claims use since Sept. 26, 1952.

Ser. No. 641,644. Staley Milling Company, North Kansas City, Mo. Filed Feb. 2, 1953.

PIG KISSES

The term "Pig" is disclaimed apart from the mark as shown on the drawing.
For Feed for Animals—Namely, Hogs and Pigs.
Claims use since Jan. 16, 1953.

Ser. No. 642,347. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed Feb. 17, 1953. (Sec. 2f as to the word "Worthmore.")




No claim is made to the exclusive use of the words "Candy Cottontails," apart from the mark as shown.
Applicant claims ownership of Registrations Nos. 289,058, 501,764, and 569,212.
For Candy.
Claims use since Jan. 29, 1953, as shown; and since June 1, 1931, as to the word "Worthmore."

Ser. No. 642,374. The Security Milling Co., Inc., Abilene, Kans. Filed Feb. 17, 1953.




The drawing is lined for red, gold, and blue, and the biscuits are stippled for shading only. No exclusive claim is made to the word "Biscuit" apart from the mark as shown in the drawing.
For Flour.
Claims use since Feb. 7, 1951.

Ser. No. 643,277. E. J. Brach & Sons, Chicago, Ill. Filed Mar. 9, 1953.

MORNINGSIDE

For Candy.
Claims use since May 27, 1949.

Ser. No. 644,398. Elna Brands, Inc., Chicago, Ill. Filed Mar. 30, 1953.

DOG CLUB

The applicant disclaims the word "Dog" alone and apart from the mark as shown.
For Dog Food.
Claims use since on or about June 16, 1949.



Ser. No. 645,486. Jackson & Walton, Modesto, Calif. Filed Apr. 17, 1953.

HUSKY

For Fresh Deciduous Fruits and Fresh Vegetables.
Claims use since 1930.

## CLASS 49

## DISTILLED ALCOHOLIC LIQUORS

Ser. No. 633,339. R. H. Thomson & Co. (Distillers) Limited, Leith, Edinburgh, Scotland. Filed July 31, 1952.




The name "Robbie Burns" and the portrait shown in the drawing are those of the well-known Scottish poet, long-since deceased. Applicant claims ownership of Registrations Nos. 306,403 and 306,408.
For Scotch Whisky.
Claims use since Sept. 19, 1933; and use in commerce between Great Britain and the United States since Sept. 19, 1933.

## CLASS 50

## MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 602,931. Crown Cork & Seal Company, Inc., Baltimore, Md. Filed Aug. 30, 1950. (Sec. 2f.)

SATIN FINISH

No claim is made to the word "Finish" apart from the mark as shown.
For Container Caps.
Claims use since Oct. 10, 1940.

Ser. No. 625,418. Walter Gribben, Los Angeles, Calif. Filed Feb. 23, 1952.

Plastabilt

For Characters of Relatively Thin Flexible Material in the Nature of Plastic Letters and Numerals Adapted for Use as Changeable Signs.
Claims use since Jan. 12, 1952.

Ser. No. 629,322. Regal Products Company, Inc., Chicago, Ill. Filed May 7, 1952.

FIESTA

For Drinking Straws.
Claims use since Apr. 28, 1952.

Ser. No. 631,598. Beirug Mill, Inc., Greenville, S. C., now by change of name Beirug Mills of South Carolina. Filed June 23, 1952.

WUNDA CUSHION

No claim is made to the word "Cushion" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 437,645.
For Foam Rubber Pads or Mats To Be Used Under Rugs.
Claims use since Apr. 17, 1952.

## CLASS 51

## COSMETICS AND TOILET PREPARATIONS

Ser. No. 620,626. Bessie Matlock Simon, Chicago, Ill. Filed Oct. 29, 1951.




For Skin Lotion, Essential Cream, Cleansing Cream, and Brilliantine.
Claims use since March 1950.

Ser. No. 620,777. Eterne Manufacturing Corporation, New York, N. Y. Filed Nov. 1, 1951.

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Applicant claims ownership of Registrations Nos. 325,518 and 550,408.
For Hair Tints.
Claims use since May 31, 1934.

Ser. No. 622,034. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 3, 1951.




For Brushless Shaving Cream, Lather Shaving Cream, Shave Bowl (Shaving Soap).
Claims use since June 25, 1951.

Ser. No. 626,052. Sage Laboratories, Inc., New York, N. Y. Filed Mar. 6, 1952.

Sage

Applicant claims ownership of Registration No. 502,423.
For Personal Deodorant.
Claims use since December 1944.

Ser. No. 626,983. Donald E. Cossman, doing business as Parfums Donat, Chicago, Ill. Filed Mar. 25, 1952.

Evening Capers

For Cologne and Perfume.
Claims use since Mar. 8, 1952.

Ser. No. 627,332. Gerber Products Company, Fremont, Mich. Filed Mar. 31, 1952.



The infant's head is an artistic drawing of a picture of Ann Turner Cook taken when a child, which consent is of record. Applicant claims ownership of Registrations Nos. 362,108, 313,879, and others.
For Baby Cosmetics—Namely, Baby Lotion, Baby Oil, Baby Powder, and Baby Cream.
Claims use since Jan. 31, 1952.

Ser. No. 627,867. Dorothea A. Davis, Wilmette, Ill. Filed Apr. 10, 1952.

Detour

For Face Powder, Perfumes, Lipsticks, Hand Lotion.
Claims use since Jan. 24, 1952.

Ser. No. 628,187. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Apr. 17, 1952.




For Shaving Cream.
Claims use since April 1951.

Ser. No. 628,407. Lever Brothers Company, New York, N. Y. Filed Apr. 21, 1952.

Dreamy

For Eau de Cologne.
Claims use since Feb. 29, 1952.

Ser. No. 629,363. Hans Joachim Haering, doing business as Haering, Goldach, Saint Gall, Switzerland. Filed May 8, 1952.

DANIELLA

Applicant claims ownership of Swiss Registration No. 128,343, dated Mar. 18, 1949.
For Cosmetic Preparations—Namely, Cream for Use in the Treatment and Care of the Skin, Facial Make-Up, Face Powder, Rouges, Lipstick, Lotions, Complexion Dressing, Nail Lacquer, Bath Salts, Bath Oils, Bath Powders, Bath Crystals, Hair Preserving, and Hair Nutritive Preparations.

Ser. No. 634,529. Extraction and Chemical Company, Inc., New York, N. Y. Filed Aug. 27, 1952.

OLD SANDAL WATER

The word "Water" is disclaimed.
For Toilet Water.
Claims use since July 1, 1952.

Ser. No. 635,348. Cheatham Chemical Company, Atlanta, Ga. Filed Sept. 17, 1952.

Polly Peachtree

The mark is merely a fanciful name. Applicant claims ownership of Registration No. 283,756.
For Perfumes, Bay Rum, Hair Dressings, Face Lotions, Cold Creams, Vanishing Creams, Pomades, Talcum Powders, and Face Powders.
Claims use since Mar. 12, 1924.

Ser. No. 636,736. Revlon Products Corporation, New York, N. Y. Filed Oct. 16, 1952.

"MOON DROPS"

The word "Drops" is disclaimed apart from the mark.
For Lotion Face Cream.
Claims use since Oct. 7, 1952.

Ser. No. 637,401. Revlon Products Corporation, New York, N. Y. Filed Oct. 30, 1952.

"SAY IT WITH ROSES"

For Lipstick and Nail Enamel.
Claims use since Oct. 21, 1952.



## CLASS 52

## DETERGENTS AND SOAPS

Ser. No. 610,696. Lien Chemical Company, Franklin Park, Ill. Filed Mar. 1, 1951.

CLIENCO

For Powdered Hand Soap.
Claims use since July 28, 1947.

Ser. No. 629,967. Stanley Home Products, Inc., Westfield, Mass. Filed May 20, 1952.

STAN-BAN

Applicant claims ownership of Registration No. 426,252.
For Liquid Cleaning Disinfectant.
Claims use since Feb. 26, 1952.

Ser. No. 630,834. E. F. Drew & Co., Inc., New York, N. Y. Filed June 6, 1952.

NAPTONE

For Mixture of Detergents in White Granular Form Adapted for Use in Hot, Cold, Hard, or Soft Water and Particularly Adapted for Use in Commercial and Institutional Laundries.
Claims use since Dec. 11, 1951.

Ser. No. 634,259. Les Parfums de Dana, Inc., New York, N. Y. Filed Aug. 21, 1952. (Sec. 2f.)

DANA

Applicant claims ownership of Registrations Nos. 406,392, 415,416, and others.
For Toilet Soaps.
Claims use since 1933.

Ser. No. 635,603. Manufacturing Laboratories, Inc., Boston, Mass. Filed Sept. 22, 1952. (Sec. 2f.)

Nu-Klenz

Applicant claims ownership of Registration No. 259,252.
For Liquid Soap.
Claims use since Nov. 19, 1928.

Ser. No. 636,760. Charles Antell, Inc., Baltimore, Md. Filed Oct. 17, 1952.

Charles Antell

The name "Charles Antell" is fanciful and is not the name of a living individual.
For Shampoo.
Claims use since July 20, 1950.



Ser. No. 638,267. Esther A. Nathanson, doing business under the name of Argie Brian Cosmetics, Washington, D. C. Filed Nov. 18, 1952.

ARIST-O-CREME

The applicant hereby disclaims the right to the exclusive use of the word "Creme" apart from the mark as shown.
For Cream Shampoo and a Liquid-Cream Shampoo.
Claims use since Nov. 10, 1952.

Ser. No. 640,152. Fabergé, Inc., New York, N. Y. Filed Dec. 30, 1952.

TIGRESS

For Soap.
Claims use since September 1951.

Ser. No. 640,337. Paul M. Gottfried, doing business under the name Paulen Chemical Company, Berwyn, Md. Filed Jan. 5, 1953.

GALE

For Detergent.
Claims use since March 1952.

Ser. No. 642,526. Consolidated Cosmetics, Chicago, Ill. Filed Feb. 20, 1953.

Lanorica

For Shampoo.
Claims use since Dec. 26, 1952.

Ser. No. 642,579. Swiss Pine Importing Co., Inc., New York, N. Y. Filed Feb. 20, 1953.

Lactopine

Applicant claims ownership of Registration No. 361,202.
For Toilet Soap.
Claims use since 1936.

Ser. No. 642,812. General Dyestuff Corporation, New York, N. Y. Filed Feb. 26, 1953.

TETRAPOL

For Composition of Solvents and Detergents for Use in Spot-Washing of Textiles.
Claims use since Mar. 10, 1926.

Ser. No. 643,045. The Odell Company, Inc., Newark, N. J. Filed Mar. 3, 1953.

Trol

Applicant claims ownership of Registrations Nos. 353,534, 410,677, and 570,644.
For Shampoo.
Claims use since September 1949.

# SERVICE MARKS

## CLASS 100

### MISCELLANEOUS

Ser. No. 589,309. General Electric X-Ray Corporation, Milwaukee, Wis., now by merger General Electric Company, a corporation of New York. Filed Dec. 14, 1949.

**MAXISERVICE**

Applicant claims ownership of Registration No. 339,425.

For Leasing of Electrical Equipment—Namely, X-Ray Apparatus.

Claims use since on or about Aug. 1, 1949.

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Ser. No. 626,217. Albert Pick Hotella, Inc., Miami Beach, Fla. Filed Mar. 10, 1952.

*Hotella*

For Restaurant Services and Providing Lodgings for Travelers.

Claims use since May 28, 1945.

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Ser. No. 633,854. National Tuberculosis Association, New York, N. Y. Filed Aug. 13, 1952.



Applicant claims ownership of Registrations Nos. 137,345 and 163,810.

For Disseminating Information Concerning the Causes, Treatment, and Prevention of Tuberculosis and of Related Health Problems; Encouraging the Prevention and Scientific Treatment of Tuberculosis; Stimulating, Unifying, and Standardizing the Work of the Various Tuberculosis Associations Throughout the Country; Cooperating With Medical Societies and With Other Non-Official and Official Organizations Interested in Tuberculosis and Related Health Problems; and Promoting International Study and Control of Tuberculosis and Related Diseases.

Claims use since 1902.

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## CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 605,892. California Tax and Assessment Corporation of San Francisco, doing business under the firm name and style of California Tax Agency, San Francisco, Calif. Filed Nov. 4, 1950.

**California Tax Agency**

For Services Rendered to Insurance Companies and Other Business Organizations Having Their Head Offices Located in Various States, Such Services Comprising Supplying by Mail and Telegram the Head Offices of Insurance Companies and Business Organizations Upon Their Specific Requests With Written Data Concerning the Tax Status of Properties on Which Such Insurance Companies and Business Organizations Have Loans.

Claims use since May 25, 1926.

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## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 631,435. Perma-Stone Company, Columbus, Ohio. Filed June 19, 1952.

**PERMA-STONE**

The descriptive word "Stone" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 281,621 and 439,000.

For Casting of Stone-Like Facings of a Cementitious Material Such as Concrete or Plaster To Which Coloring and Other Ingredients in Powdered Form Have Been Added, Directly Upon Building Walls and Other Surfaces by Means of Molds, Shaped To Simulate Natural Stone.

Claims use since Nov. 1, 1929.

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Ser. No. 636,381. Progressive Industries, Inc., Long Island City, N. Y. Filed Oct. 8, 1952.




The words "Spray" and "Plastic Skin" are disclaimed apart from the mark as shown on the drawing.

For Spraying Liquid Plastic on Wood, Plaster, Stucco, Brick, Cinder Block, Concrete and Metal for Waterproofing, Vapor and Dust-Proofing, Brine, Acid, Corrosion, Fungi, and Stain-Resistant Proofing.

Claims use since Aug. 2, 1951.

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## CLASS 104

### COMMUNICATION

Ser. No. 627,800. Booth Radio & Television Stations, Inc., Detroit, Mich. Filed Apr. 9, 1952.

**Polka Dots**

For Radio Program Broadcasting.

Claims use since May 1948.



# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1905

444,781. Tableware—Namely, Knives, Forks, Spoons, and Carving Sets of Base Metal. Englishtown Cutlery, Ltd., New York, N. Y.
Filed Aug. 13, 1946, Serial No. 507,311. Published Mar. 31, 1953. Class 23.

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## ACT OF 1946, PRINCIPAL REGISTER

576,880. Plug, Twist, and Smoking Tobacco. Taylor Brothers, Inc., Winston-Salem, N. C.
Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Feb. 25, 1948, Serial No. 525,443. Published Oct. 30, 1951. Class 17.

576,881. Plastic Coatings in the Nature of a Paint To Protect Metal Surfaces From the Corrosive Effects of Industrial Acids and, in Particular, for Coatings for Drums. Donald B. Barber, doing business as the Barber-Webb Company, South Gate, Calif.
Filed July 19, 1947, Serial No. 528,905. Published Apr. 7, 1953. Class 16.

576,882. Slide Rules. Eugene Dietzgen Co., Chicago, Ill.
Filed Aug. 15, 1947, Serial No. 531,452. Published Sept. 6, 1949. Class 26.

576,883. Writing Paper and Envelopes. George B. Hurd, Inc., New York, N. Y.
Filed Nov. 20, 1947, Serial No. 541,844. Published Apr. 7, 1953. Class 37.

576,884. Paint Lacquers and Paint and Baking Enamels. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Dec. 13, 1947, Serial No. 544,275. Published Apr. 7, 1953. Class 16.

576,885. Bottled Natural Fruit Juice—Namely, Orange, Apple, Prune, Pineapple, Quince, and Papaya, Singly and in Combination, in Concentrated Form. Hugh C. Van Vaikenburgh, Seattle, Wash., assignee of Caravan Trading Co., Inc.
Filed Jan. 19, 1948, Serial No. 547,426. Published Apr. 14, 1953. Class 46.

576,886. Solution of Resin, Oil, and Volatile Solvent as a Surface Coating or Sealant on Concrete, Brick, Stucco, or Other Masonry Construction for Waterproofing and Dampproofing Same To Prevent Water and Moisture Penetration. American Fluresit Company, Inc., Cincinnati, Ohio, formerly The American Fluresit Company
Filed May 17, 1948, Serial No. 557,173. Published Apr. 21, 1953. Class 16.

576,887. Mattresses and Box Springs. International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros.
Filed May 20, 1948, Serial No. 557,455. Published Apr. 21, 1953. Class 32.

576,888. Printing Plates. F. A. Ringler Company, New York, N. Y.
Filed Sept. 4, 1948, Serial No. 564,741. Published Mar. 10, 1953. Class 50.

576,889. Drilling Machines, Milling Machines, Boring Machines, Tapping Machines, and Metal Turning Machines. The Cross Company, Detroit, Mich.
Filed Sept. 13, 1948, Serial No. 565,046. Published Mar. 24, 1953. Class 23.

576,890. Deciduous Fruits—Namely, Fresh Apples and Peaches: Apple Butter and Honey. Thun Investment Company, doing business as Ontelaunee Orchards, Reading and Leesport, Pa.
Filed Nov. 16, 1948, Serial No. 568,879. Published Mar. 31, 1953. Class 46.

576,891. Electrical Goods—Namely, Motors; Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 16, 1948, Serial No. 570,657. Published Mar. 31, 1953. Class 21.

576,892. Women's and Misses' Hosiery. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 17, 1949, Serial No. 574,057. Published Apr. 14, 1953. Class 39.

576,893. Stencils. Societe a Responsabilite Limitee: Galland & Brochard, Nantes-Chantenay (Loire-Inferieure), France
Filed Apr. 4, 1949, Serial No. 576,595. Published Apr. 7, 1953. Class 37.

576,894. Replacement Electric Wire Terminals for Hermetically Sealed Motor Driven Compressors of Electric Refrigerators. Wagner Tool & Supply Corp., Long Island City, N. Y.
Filed Aug. 17, 1949, Serial No. 583,625. Published Apr. 7, 1953. Class 21.

576,895. Outdoor Type Hammocks Designed To Be Supported Between Upright Supports. Kronke Co., Oakland, Calif.
Filed Aug. 26, 1949, Serial No. 584,064. Published Apr. 21, 1953. Class 22.

576,896. Gift Packages Containing Fresh Deciduous Fruits, Canned Fruits, and/or Fruit Preserves. Harry and David, Medford, Oreg.
Filed Oct. 1, 1949, Serial No. 586,035. Published Apr. 21, 1953. Class 46.

576,897. Photographic and Drawing Equipment and Supplies—Namely, Group A—Slide Projectors, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed Nov. 10, 1949, Serial No. 587,656. Published Nov. 11, 1952. Class 26.

576,898. Potato Chips, Cheese-Flavored Chips, and Food Chips Comprising Vegetable-Flavored Wafer-Like Products Which Are Fried and Simulate Potato Chips. Clair Lanning, doing business as Vette Company, Lincoln, Nebr.
Filed Nov. 22, 1949, Serial No. 588,177. Published Apr. 14, 1953. Class 46.

576,899. Waterproof Papers Sold in Roll and Sheet Form, Etc. Edgewater Paper Company, Menasha, Wis.
Filed Dec. 12, 1949, Serial No. 589,202. Published Apr. 14, 1953. Class 37.

576,900. Knife Sheaths, Knife Sheaths Containing Knife Sets, Knife and Axe Sheaths, Knife and Axe Sheaths Containing Knife and Axe Sets, Knife Cases, and Knife Cases Containing Knives. Fisher-Denver Company, Inc., sometimes doing business as Fisher Hardware Company, Denver, Colo.
Filed Jan. 18, 1950, Serial No. 591,025. Published Mar. 3, 1953. Class 23.

576,901. Wheat Flour. Distributors Trucking Corporation, doing business under the name Tanner Milling Company, New York, N. Y.
Filed Apr. 3, 1950, Serial No. 595,124. Published Apr. 21, 1953. Class 46.

576,902. Vitamin Mixture Containing Food Supplements. Melville Sahyun, doing business as Sahyun Laboratories, Santa Barbara, Calif.
Filed June 1, 1950, Serial No. 598,433. Published Apr. 7, 1953. Class 18.

576,903. Buffing and Polishing Wheels, Sheets of Polishing Felt, and Buffing Composition for Use With Such Wheels. Divine Brothers Company, Utica, N. Y.
Filed June 19, 1950, Serial No. 599,369. Published Jan. 22, 1952. Class 4.

576,904. Knitting Machines. Jacquard Knitting Machine Co., Inc., Philadelphia, Pa.
Filed June 20, 1950, Serial No. 599,437. Published Mar. 3, 1953. Class 23.

576,905. Cellulosic Lacquer Used Chiefly To Coat Aircraft Surfaces and Commonly Known as Dope. Titanine Inc., Union, N. J.
Filed July 19, 1950, Serial No. 600,930. Published Apr. 21, 1953. Class 16.

576,906. Hand Sewing Needles. Etablissements Bohin, Société Anonyme, Paris, France.
Filed July 26, 1950, Serial No. 601,259. Published Feb. 17, 1953. Class 40.

576,907. Bicycle and Motorcycle Parts and Accessories, Etc. Wald Manufacturing Company, Maysville, Ky.
Filed Aug. 7, 1950, Serial No. 601,855. Published Apr. 21, 1953. Class 19.

576,908. Hosiery for Men, Women, and Girls. Howard Hosiery Mills, Inc., Sinking Spring, Pa., and New York, N. Y.
Filed Aug. 18, 1950, Serial No. 602,402. Published Apr. 7, 1953. Class 39.

576,909. Automatic Electric Water Heaters. National Steel Construction Co., Seattle, Wash.
Filed Sept. 11, 1950, Serial No. 603,410. Published Apr. 14, 1953. Class 21.

576,910. Frozen Fish Products—Namely, Fillets of Sole, Halibut Fillets, Fillets of Salmon, Fillets of Ocean Perch, Fillets of Haddock, Rockfish Fillets, Dressed Smelts, Fillets of Cod, and Scallops. New England Fish Company, Seattle, Wash.
Filed Sept. 11, 1950, Serial No. 603,411. Published Apr. 14, 1953. Class 46.

576,911. Industrial Flotation and Aeration Machines. The Galligher Company, Salt Lake City, Utah.
Filed Sept. 18, 1950, Serial No. 603,678. Published Apr. 7, 1953. Class 23.

576,912. Radio Direction Finding Apparatus, Automatic Pilot Apparatus, Etc. Lear, Incorporated, Grand Rapids, Mich.
Filed Sept. 22, 1950, Serial No. 603,888. Published Mar. 3, 1953. Class 26.

576,913. End Door Locks. Pullman-Standard Car Manufacturing Company, Chicago, Ill.
Filed Oct. 21, 1950, Serial No. 605,269. Published Apr. 14, 1953. Class 25.

576,914. Ammoniated Chewing Gum. Matilda Englestad, doing business under the name and style of the Floramint Co., Palms, Calif., assignor, by mesne assignments, to Wendell G. Hendricks, doing business as Hendricks Research Foundation, Los Angeles, Calif.
Filed Nov. 13, 1950, Serial No. 606,283. Published Mar. 10, 1953. Class 46.

576,915. Gypsum Wall Board and Lath; Gauging and Casting Plaster; Fibered and Unfibered Hardwall Plaster; Patching Plaster, Joint and Crack Fillers, and Perforated Wall Tape. Kaiser Gypsum Company, Oakland, Calif., assignee of Henry J. Kaiser Company, Formerly Kaiser Industries, Inc., now by merger and change of name Kaiser Gypsum Company, Inc., a corporation of Washington.
Filed Dec. 11, 1950, Serial No. 607,550. Published Mar. 10, 1953. Class 12.

576,916. Yarn. Patons & Baldwins, Inc., New York, N. Y., assignor to Coats & Clark Inc., a corporation of Delaware.
Filed Jan. 24, 1951, Serial No. 609,192. Published Apr. 14, 1953. Class 43.

576,917. Oleomargarine. Lever Brothers Company, New York, N. Y.
Filed Feb. 7, 1951, Serial No. 609,732. Published Apr. 21, 1953. Class 46.

576,918. Snuff. George W. Helme Company, New York, N. Y.
Filed Jan. 19, 1951, Serial No. 610,218. Published Apr. 21, 1953. Class 17.

576,919. Fluid Milk, Buttermilk, Ice Cream, Milk Preparation for Use in the Making of Eggnogs, and Milk Flavored With Chocolate, Philip Eisenberg, doing business under the name Packet Milk Products, Steubenville, Ohio.
Filed Feb. 20, 1951, Serial No. 610,315. Published Apr. 21, 1953. Class 46.

576,920. White Duck Fabrics and White Drill Fabrics, for Towels and Towelling and for Cotton Piece Goods. Opelika Manufacturing Corporation, Chicago, Ill., assignee of M. Snower & Company.
Filed Feb. 24, 1951, Serial No. 610,502. Published Apr. 21, 1953. Class 42.

576,921. Cereal Flours, Pancake Flour, Cake Flour, Corn Meal, Pearl Hominy, Hominy Grits, Poultry Feed, Pigeon Feed, Rabbit Feed, and Dog Food. The Crete Mills, Crete, Nebr.
Filed Feb. 27, 1951, Serial No. 610,544. Published Apr. 14, 1953. Class 46.

576,922. Men and Women's Sweaters, Hose, Mufflers, Scarfs, Gloves. Himalaya Knitwear Co., Inc., New York, N. Y.
Filed Mar. 7, 1951, Serial No. 610,969. Published Apr. 14, 1953. Class 39.

576,923. Electric Floor Brushing, Scrubbing, Rubbing, and Polishing Machines, Parts, and Accessories. General Floorcraft, Inc., New York, N. Y.
Filed Apr. 17, 1951, Serial No. 612,738. Published Apr. 14, 1953. Class 21.

576,924. Carpet Sweepers, Food Choppers, Can Openers, Etc. Affiliated Retailers, Inc., New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,886. Published Mar. 31, 1953. Class 23.

576,925. Electrical Appliances—Namely, Circulating Fans. McGraw Electric Company, Chicago, Ill.
Filed May 7, 1951, Serial No. 613,597. Published Apr. 14, 1953. Class 21.

576,926. Surface Tar Emulsion Sealer for the Protection of Bituminous Surfaces. Reilly Tar & Chemical Corporation, Indianapolis, Ind.
Filed June 19, 1951, Serial No. 615,413. Published Apr. 21, 1953. Class 16.

576,927. Finished Motion Picture Films. Hour Glass Productions, Los Angeles, Calif., assignee of Wanda Tuchock and George de Normand.
Filed July 3, 1951, Serial No. 616,066. Published Mar. 10, 1953. Class 26.

576,928. Loom Checkstraps. The Dayton Rubber Company, Dayton, Ohio.
Filed July 5, 1951, Serial No. 616,083. Published Apr. 7, 1953. Class 23.



576,929. Fractionating Towers. General Ceramics and Steatite Corp., Keasbey, N. J., assignor to Falls Industries, Inc., Solon, Ohio.
Filed July 6, 1951, Serial No. 616,167. Published Mar. 10, 1953. Class 23.

576,930. Chocolate Bars. Aktiengesellschaft Chocolat Tobler, also tradingas Chocolat Tobler, Limited, and Societe Anonyme Chocolat Tobler, Bern, Switzerland.
Filed July 9, 1951, Serial No. 616,219. Published Apr. 21, 1953. Class 46.

576,931. Ladies' and Men's Hosiery. Walter Felix, doing business as Feel-Fine Hosiery Company, Reading, Pa.
Filed July 27, 1951, Serial No. 617,023. Published Apr. 14, 1953. Class 39.

576,932. Power Driven Laboratory Stirrer. Omega Machine Company, Providence, R. I.
Filed July 27, 1951, Serial No. 617,055. Published Mar. 10, 1953. Class 26.

576,933. Women's, Misses', and Girls' Slips, Petticoats, Pajamas, and Nightgowns, Shortie Gowns (Also Known as Nightgowns), and Gown Sets Consisting of a Long or a Short Nightgown and a Robe. Miss Swank, Inc., New York, N. Y.
Filed Aug. 7, 1951, Serial No. 617,413. Published Apr. 21, 1953. Class 39.

576,934. Textile Roller Coverings and Drafting Aprons for Textile Machinery. George Angus and Company Limited, Newcastle-upon-Tyne, Northumberland, England.
Filed Aug. 13, 1951, Serial No. 617,599. Published Apr. 14, 1953. Class 23.

576,935. Steel Reenforced Gloves, Steel Reenforced Mittens, Etc. Industrial Gloves Company, Danville, Ill.
Filed Aug. 25, 1951, Serial No. 618,088. Published Apr. 14, 1953. Class 39.

576,936. Slide-Rule Type Calculator for Simplifying Multiplication. Multi-Aid Computer Corp., New York, N. Y.
Filed Aug. 28, 1951, Serial No. 618,176. Published Mar. 3, 1953. Class 26.

576,937. Card Racks and Card File Boxes. Simplex Time Recorder Co., Gardner, Mass.
Filed Aug. 31, 1951, Serial No. 618,308. Published Apr. 21, 1953. Class 32.

576,938. Picnic Carrying Containers Fitted With Vacuum Bottles and Dinner Ware Such as Plates, Cups, Knives, Forks, and Spoons. Aladdin Industries, Incorporated, Nashville, Tenn.
Filed Sept. 1, 1951, Serial No. 618,314. Published Apr. 14, 1953. Class 50.

576,939. Cocoa, Cocoabutter, Cocoa Powder, Chocolate Candy, Baking Chocolate, Cooking Chocolate. Ringers' Cacao- en Chocoladefabrieken N. V., Alkmaar, Netherlands.
Filed Sept. 5, 1951, Serial No. 618,404. Published Apr. 21, 1953. Class 46.

576,940. Ink Impregnated Fabric Ribbons and Carbon Coated Paper Ribbons for Automatic Composing Machines, Typewriters, and Letter Writers. Commercial Controls Corporation, Rochester, N. Y.
Filed Sept. 7, 1951, Serial No. 618,482. Published Mar. 31, 1953. Class 11.

576,941. Olive Oil. Societe Anonyme des Nouveaux Etablissements Adolphe Puget, Marseille, France.
Filed Sept. 11, 1951, Serial No. 618,659. Published Apr. 14, 1953. Class 46.

576,942. Dog and Cat Food, Poultry and Stock Feed. Waynesburg Milling Company, Waynesburg, Pa.
Filed Sept. 13, 1951, Serial No. 618,768. Published Apr. 14, 1953. Class 46.

576,943. Electrically Operated Sounding Horns, Signals, Alarms and Parts Thereof, Etc. General Motors Corporation, Detroit, Mich.
Filed Sept. 28, 1951, Serial No. 619,339. Published Apr. 14, 1953. Class 21.

576,944. Overcoats and Topcoats for Men. Society Brand Clothes, Inc., Chicago, Ill.
Filed Oct. 1, 1951, Serial No. 619,481. Published Feb. 24, 1953. Class 39.

576,945. Silanes, Siloxanes, Silicon Chemicals, Organometallic Compounds, Etc. Dow Corning Corporation, Midland, Mich.
Filed Oct. 10, 1951, Serial No. 619,808. Published Apr. 7, 1953. Class 6.

576,946. Silanes, Siloxanes, Silicon Chemicals, Organometallic Compounds, Etc. Dow Corning Corporation, Midland, Mich.
Filed Oct. 10, 1951, Serial No. 619,815. Published Apr. 7, 1953. Class 6.

576,947. Ladies' Hosiery, Knitted Underwear, Ladies' Nylon or Rayon Slips, Ladies' Nylon, Silk, or Rayon Panties and Night Gowns, Pajamas. Harold Posner, Brooklyn, N. Y.
Filed Oct. 18, 1951, Serial No. 620,169. Published Apr. 21, 1953. Class 39.

576,948. Coffee. Morris Siegel, Wilkes-Barre, Pa.
Filed Oct. 18, 1951, Serial No. 620,172. Published Mar. 31, 1953. Class 46.

576,949. Motors, Electric Turn-Tables for Sound Recording and Reproducing Apparatus, Antenna Rotators, Electromagnetic Signal Boosters, and Remote Positioners. The Alliance Manufacturing Company, Alliance, Ohio.
Filed Oct. 30, 1951, Serial No. 620,655. Published Apr. 14, 1953. Class 21.

576,950. Wallets and Pocketbooks. Eastern Seaboard Plastics, Inc., Newark, N. J.
Filed Oct. 30, 1951, Serial No. 620,666. Published Apr. 21, 1953. Class 3.

576,951. Table Syrup. W. F. Straub & Company, Chicago, Ill.
Filed Oct. 31, 1951, Serial No. 620,752. Published Apr. 21, 1953. Class 46.

576,952. Packaged Fresh Vegetables. Thomas Molle, doing business as Coast Side Produce, Oakland, Calif.
Filed Nov. 9, 1951, Serial No. 621,079. Published Apr. 21, 1953. Class 46.

576,953. Materials-Handling Equipment Actuated Horizontally and/or for Lifting or Lowering Purposes Manually, Etc. Lewis-Shepard Products, Inc., Watertown, Mass.
Filed Nov. 17, 1951, Serial No. 621,370. Published Mar. 31, 1953. Class 23.

576,954. Needles for Hand Sewing. Needle Industries Limited, Birmingham, England.
Filed Nov. 17, 1951, Serial No. 621,372. Published Feb. 17, 1953. Class 40.

576,955. Dash Board Instruments for Any Vehicle—Namely, Odometers, Speed Gauges, Gasoline and Oil Gauges, Manometers, Tachometers, Thermometers, and Barometers. Fratelli Borletti Società per Azioni, Milan, Italy.
Priority under Sec. 44(d). Italian Registration No. 104,564, filed Nov. 26, 1951.
Filed Nov. 24, 1951, Serial No. 621,623. Published Mar. 3, 1953. Class 26.

576,956. Ink Dispensing Devices, Sold in the Trade Filled With Ink, Etc. The National Cash Register Company, Dayton, Ohio.
Filed Nov. 28, 1951, Serial No. 621,777. Published Apr. 21, 1953. Class 11.

576,957. School Tablets, Paper Pads, Blank Books, Loose Leaf Binders and Fillers, Note Books, Note Book Covers, Partially Printed Display Cards, Writing Paper, Second Sheets, Typewriter Paper, and Mailing Envelopes. Birmingham Paper Company, Birmingham, Ala.
Filed Dec. 3, 1951, Serial No. 622,007. Published Dec. 30, 1952. Class 37.

576,958. Cleansing Tissues and Toilet Tissue. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,031. Published Feb. 17, 1953. Class 37.

576,959. Dresser Sets—Consisting of Comb, Brush, Hand Mirror, Mirror Tray, Nail File, Cuticle Pusher, Atomizer, Cream Jar, Perfume Bottle, Picture Frame. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,032. Published Feb. 10, 1953. Class 40.

576,960. Cookies and Crackers. United Biscuit Company of America, Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,045. Published Apr. 21, 1953. Class 46.

576,961. Granulated Abrasives Consisting of Graded Particles of Nut Shells, Peach Pits and Hard Organic Substances for Use in Abrading a Wide Variety of Materials From Surfaces. Agrashell, Inc., Los Angeles, Calif.
Filed Dec. 6, 1951, Serial No. 622,136. Published Apr. 21, 1953. Class 4.

576,962. Fresh Celery. Zuckerman Mandeville Inc., Stockton, Calif.
Filed Dec. 8, 1951, Serial No. 622,288. Published Apr. 21, 1953. Class 46.

576,963. Spinning Reel for Fishing Tackle. Chas. Garcia & Co., Inc., New York, N. Y.
Filed Dec. 13, 1951, Serial No. 622,434. Published Apr. 21, 1953. Class 22.

576,964. Ironing Boards, Ironing Board Covers, Press Covers, Ironing Board Stands. Arkwright Merchandising Corporation, New York, N. Y.
Filed Dec. 15, 1951, Serial No. 622,524. Published Apr. 7, 1953. Class 24.

576,965. Cotton and Rayon Fabrics in the Piece and Made-Up Fabrics—Namely, Table Covers and Napkins, Bed Sheets and Pillow Cases, Towels, Window Curtains, Blankets, and Bed Spreads. N. V. Textielfabriek "Holland," Enschede, Netherlands.
Filed Nov. 7, 1951, Serial No. 622,637. Published Apr. 21, 1953. Class 42.

576,966. Tire Repair Materials and Tools—Namely, Buffing Rasp Hubs, Etc. Paul E. Hawkinson Company, Minneapolis, Minn.
Filed Dec. 26, 1951, Serial No. 622,826. Published Mar. 10, 1953. Class 23.

576,967. Underwear—Namely, Infants' and Children's Pull-Over Shirts, Etc. Frank R. Redman, Yardley, Pa.
Filed Dec. 28, 1951, Serial No. 622,953. Published Apr. 14, 1953. Class 39.

576,968. Hosiery Mending Machine. Marvel Specialty Company, Incorporated, Paducah, Ky.
Filed Jan. 7, 1952, Serial No. 623,283. Published Mar. 10, 1953. Class 23.

576,969. Medicinal Preparations—Namely, Analgesics, Antipyretics, Antispasmodics, Aspirin, Etc. The Bowman Brothers Drug Co., Canton, Ohio.
Filed Jan. 8, 1952, Serial No. 623,300. Published Apr. 21, 1953. Class 18.

576,970. Gelatin Dessert Preparation. Avoset Company, San Francisco, Calif.
Filed Jan. 24, 1952, Serial No. 624,010. Published Apr. 21, 1953. Class 46.

576,971. Instruments to Visually Detect the Presence and the Source of Harmful Gamma or X Radiation Resulting From X-Ray Generators or Nucleonic Fission. Wright Manufacturing Company, Houston, Tex.
Filed Jan. 24, 1952, Serial No. 624,065. Published Mar. 3, 1953. Class 26.

576,972. Games, Consisting of Pieces of Cardboard With Portions of Pictorial Illustrations, Etc. Albert Selsky, doing business as Selcraft Products Co., Brooklyn, N. Y.
Filed Jan. 26, 1952, Serial No. 624,161. Published Apr. 21, 1953. Class 22.

576,973. Casting Lines for Fishing. Cleveland Mills Co., Lawndale, N. C.
Filed Jan. 28, 1952, Serial No. 624,182. Published Apr. 21, 1953. Class 22.

576,974. Women's Hosiery. Burlington Mills Corporation, Greensboro, N. C.
Filed Jan. 29, 1952, Serial No. 624,222. Published Apr. 7, 1953. Class 39.

576,975. Magnetic Dictating and Transcribing Machines. E. M. I. Factories Limited, Hayes, England.
Filed Jan. 31, 1952, Serial No. 624,333. Published Apr. 14, 1953. Class 21.

576,976. Prepared Feeds for Poultry and Livestock. Stoddard Associated Milling Company, Napa, Calif.
Filed Feb. 1, 1952, Serial No. 624,428. Published Apr. 14, 1953. Class 46.

576,977. Chemical Compounds for Cleaning and Preserving Fuel Systems, and for Eliminating Water, Rust, and Gum Deposits Therefrom, Thereby Eliminating the Possibility of Freezing or Stoppages In Such Fuel Systems. R. M. Hollingshead Corporation, Camden, N. J.
Filed Feb. 5, 1952, Serial No. 624,542. Published Apr. 21, 1953. Class 52.

576,978. Wheat Flour and Self-Rising Wheat Flour. The Whitewater Flour Mills Company, Whitewater, Kans.
Filed Feb. 5, 1952, Serial No. 624,578. Published Apr. 21, 1953. Class 46.

576,979. Women's and Girls' Hosiery. National Bellas Hess, Inc., North Kansas City, Mo.
Filed Feb. 12, 1952, Serial No. 624,847. Published Apr. 14, 1953. Class 39.

576,980. Canned Fruits and Vegetables. Macon Grocery Company, Macon, Ga.
Filed Feb. 13, 1952, Serial No. 624,890. Published Apr. 21, 1953. Class 46.

576,981. Frozen Seafood Products—Namely, Shrimp, Fish, and Oysters. Shelley A. Key, doing business as Key Fish Market, Port Lavaca, Tex.
Filed Feb. 14, 1952, Serial No. 624,954. Published Apr. 21, 1953. Class 46.

576,982. Crochet, Knitting, and Weaving Yarn. Pyramid Mills Company, Bessemer City, N. C.
Filed Feb. 14, 1952, Serial No. 624,970. Published Apr. 14, 1953. Class 43.

576,983. Electrically-Operated Central Dictation Systems Employing Sound Recording and Reproducing Machines—Namely, Dictating Machines, Operated From Remotely Located Telephone Instruments, and Parts Thereof. Dictaphone Corporation, Bridgeport, Conn.
Filed Feb. 25, 1952, Serial No. 625,465. Published Apr. 14, 1953. Class 21.

576,984. Anti-Spasmodic for Use in Reducing Hypertonicity, and Spasm of Voluntary Muscles in Anxiety States, Etc. Kremers-Urban Company, Milwaukee, Wis.
Filed Feb. 29, 1952, Serial No. 625,743. Published Apr. 7, 1953. Class 18.

576,985. Woolen Piece Goods. Miron Mills, Inc., Clinton, Mass.
Filed Mar. 7, 1952, Serial No. 626,098. Published Apr. 21, 1953. Class 42.



576,986. Silicone Base Protective Coating. Siliphane Corp. of America, New York, N. Y.
Filed Mar. 11, 1952, Serial No. 626,271. Published Apr. 21, 1953. Class 16.

576,987. Baseball Gloves. Rawlings Manufacturing Company, St. Louis, Mo.
Filed Mar. 17, 1952, Serial No. 626,592. Published Apr. 21, 1953. Class 22.

576,988. Wood Cased Lead Pencils. Mallard Pencil Co. Inc., Georgetown, Ky.
Filed Mar. 21, 1952, Serial No. 626,800. Published Feb. 17, 1953. Class 37.

576,989. Wood Cased Lead Pencils. Mallard Pencil Co. Inc., Georgetown, Ky.
Filed Mar. 21, 1952, Serial No. 626,802. Published Feb. 17, 1953. Class 37.

576,990. Wood Cased Lead Pencils. Mallard Pencil Co., Inc., Georgetown, Ky.
Filed Mar. 21, 1952, Serial No. 626,804. Published Feb. 17, 1953. Class 37.

576,991. Wood Cased Lead Pencils. Mallard Pencil Co. Inc., Georgetown, Ky.
Filed Mar. 21, 1952, Serial No. 626,805. Published Feb. 17, 1953. Class 37.

576,992. Women's Hosiery. California Underwear Company, Inc., Dallas, Tex.
Filed Mar. 22, 1952, Serial No. 626,852. Published Apr. 14, 1953. Class 39.

576,993. Women's Hosiery. Penn-Carol Hosiery Mills, Inc., Wyncote, Pa.
Filed Mar. 22, 1952, Serial No. 626,905. Published Apr. 7, 1953. Class 39.

576,994. Women's Full Fashioned Hosiery. Virginia Maid Hosiery Mills, Inc., Pulaski, Va.
Filed Mar. 22, 1952, Serial No. 626,924. Published Apr. 7, 1953. Class 39.

576,995. Tea. Standard Brands Incorporated, New York, N. Y.
Filed Mar. 31, 1952, Serial No. 627,360. Published Apr. 21, 1953. Class 46.

576,996. Prepared Dinners Consisting of Fried Chicken, Potatoes, and Rolls. Joseph J. Janda, doing business under the name of Janda's Drive-In Restaurant, Lyons, Ill.
Filed Apr. 3, 1952, Serial No. 627,510. Published Apr. 21, 1953. Class 46.

576,997. Frozen Turkeys. Gorgeous George, Beaumont, Calif.
Filed Apr. 8, 1952, Serial No. 627,742. Published Mar. 31, 1953. Class 46.

576,998. Processed Meal—Namely, a Meat and Food Binder Made From Wheat. Dirigo Sales Corporation, Boston, Mass.
Filed Apr. 10, 1952, Serial No. 627,870. Published Apr. 21, 1953. Class 46.

576,999. Automobile Seat Covers. Bayco Mfg. Co., Paterson, N. J.
Filed Apr. 16, 1952, Serial No. 628,170. Published Apr. 21, 1953. Class 19.

577,000. Children's Stormcoats. Pioneer Coat Manufacturing Company, Minneapolis, Minn.
Filed Apr. 18, 1952, Serial No. 628,291. Published Apr. 7, 1953. Class 39.

577,001. Men's and Boys' Rainwear—Namely, Raincoats, Capes, Rain Parkas, Rain Pants, Jackets, Hoods, Caps, and Ponchos. Rettinger Raincoat Mfg. Co., New York, N. Y.
Filed Apr. 21, 1952, Serial No. 628,429. Published Apr. 14, 1953. Class 39.

577,002. Underwear—Namely, Infants' and Children's Pull-Over Shirts, Tie-Side Shirts, Panties, Night Gowns, Dresses, Etc. Frank R. Redman, Yardley, Pa.
Filed Apr. 24, 1952, Serial No. 628,647. Published Apr. 14, 1953. Class 39.

577,003. Facial Tissue and Toilet Tissue. The May Department Stores Company, doing business under the name of Kaufmann Department Stores, St. Louis, Mo., and Pittsburgh, Pa.
Filed Apr. 26, 1952, Serial No. 628,772. Published Feb. 17, 1953. Class 37.

577,004. Wheat Flour. Flour Mills of America, Inc., Kansas City, Mo.
Filed May 1, 1952, Serial No. 629,010. Published Apr. 14, 1953. Class 46.

577,005. All-Purpose Absorbent Paper Tissues. International Cellucotton Products Company, Chicago, Ill.
Filed May 1, 1952, Serial No. 629,020. Published Feb. 17, 1953. Class 37.

577,006. All-Purpose Absorbent Paper Tissues. International Cellucotton Products Company, Chicago, Ill.
Filed May 1, 1952, Serial No. 629,022. Published Feb. 17, 1953. Class 37.

577,007. Rubber Household Wares—Namely, Drainboard Mats, Etc. Essex Rubber Company, Trenton, N. J.
Filed May 2, 1952, Serial No. 629,095. Published Mar. 10, 1953. Class 50.

577,008. Machine Tools and Parts Thereof—Namely, Precision Boring and Milling Machines and Parts Thereof. De Vlieg Machine Company, Ferndale, Detroit, Mich.
Filed May 6, 1952, Serial No. 629,235. Published Mar 3, 1953. Class 23.

577,009. Chemical Compositions Employed as Fuel Oil Additives for the Cleansing, Conditioning, and Preserving of Oil Burning Systems. The Perolin Company, Inc., Dover, Del., and New York, N. Y.
Filed May 7, 1952, Serial No. 629,317. Published Apr. 14, 1953. Class 15.

577,010. Nets for Use in the Fishing Industry. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada.
Filed May 10, 1952, Serial No. 629,778. Published Apr. 21, 1953. Class 22.

577,011. Teas. C. & J. Lenson Corp., Brooklyn, N. Y.
Filed May 20, 1952, Serial No. 629,948. Published Apr. 14, 1953. Class 46.

577,012. Smokers' Articles—Namely, Pipes and Cigarette Holders and Filters Therefor; and Packaged Sets for Smokers Containing Cigarette Holders, Pipes, and Lighters. Cleevelandt Corporation, New York, N. Y.
Filed May 21, 1952, Serial No. 629,988. Published Apr. 21, 1953. Class 8.

577,013. Hygrometers. American Instrument Company, Inc., Silver Spring, Md.
Filed May 23, 1952, Serial No. 630,109. Published Feb. 24, 1953. Class 26.

577,014. Photographic Lenses. Ercona Camera Corporation, New York, N. Y.
Filed May 27, 1952, Serial No. 630,320. Published Feb. 24, 1953. Class 26.

577,015. Educational or Recreational Game Embodying a Plastic Material Base Together With an Impression Sheet Overlay Adapted for Use and Re-Use as a Word Puzzle or Game. The Sanctuary, Inc., Effingham, Ill.
Filed May 29, 1952, Serial No. 630,515. Published Apr. 21, 1953. Class 22.

577,016. Ammonia Cleaning Compound. The John Puhl Products Company, Chicago, Ill.
Filed June 3, 1952, Serial No. 630,681. Published Apr. 21, 1953. Class 52.

577,017. Hand Hack Saw Blades, Hack Saw Frames, Power Hack Saw Blades, Etc. The Capewell Manufacturing Company, Hartford, Conn.
Filed June 13, 1952, Serial No. 631,142. Published Mar. 10, 1953. Class 23.

577,018. Hand Hack Saw Blades, Hack Saw Frames, Power Hack Saw Blades, Etc. The Capewell Manufacturing Company, Hartford, Conn.
Filed June 13, 1952, Serial No. 631,143. Published Mar. 10, 1953. Class 23.

577,019. Meat Sauce. Amos S. Tomlin, doing business under the trade name of Outwest Company, Houston, Tex.
Filed June 13, 1952, Serial No. 631,183. Published Mar. 31, 1953. Class 46.

577,020. Concrete Mixing Units Made for Attachment to Tractors. Robert M. Carey, doing business under the name of Universal Pulleys Company, Wichita, Kans.
Filed June 19, 1952, Serial No. 631,401. Published Mar. 31, 1953. Class 23.

577,021. Rubber Erasers in Solid or Powder Form—Namely, Gum Cleaner Ground Into Powder or in Solid Form, Made of Rubber, Gum, or Oil Substitutes. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J.
Filed June 21, 1952, Serial No. 631,552. Published Apr. 7, 1953. Class 37.

577,022. Writing Paper and Mailing Envelopes. Harrison-Simpson Co., Inc., Boston, Mass.
Filed June 25, 1952, Serial No. 631,734. Published Apr. 7, 1953. Class 37.

577,023. Western Style Jackets and Jeans. Blue Bell, Inc., Greensboro, N. C.
Filed June 28, 1952, Serial No. 631,917. Published Feb. 10, 1953. Class 39.

577,024. Nonabrasive Ground Corncob Meal for Use in Industry as a Cleaning and Polishing Preparation and Having Grease Absorbent Properties. Edward J. Altorfer, Peoria, Ill.
Filed July 1, 1952, Serial No. 632,007. Published Apr. 21, 1953. Class 4.

577,025. Vehicle for Transporting, Erecting, and Supporting a Television Antenna. Kenneth B. Price, doing business as The Tenna-Trailer Company, Pontiac, Ill.
Filed July 5, 1952, Serial No. 632,175. Published Apr. 21, 1953. Class 19.

577,026. Lipotropic Composition Used in the Treatment of Cardio-Vascular Disturbances. The Stuart Company, Pasadena, Calif.
Filed July 7, 1952, Serial No. 632,231. Published Apr. 14, 1953. Class 18.

577,027. Projector for Projecting Images Upon a Screen. Society for Visual Education, Inc., Chicago, Ill.
Filed July 8, 1952, Serial No. 632,275. Published Feb. 24, 1953. Class 26.

577,028. Women's Hosiery. Gotham Hosiery Company, Inc., New York, N. Y.
Filed July 9, 1952, Serial No. 632,298. Published Apr. 7, 1953. Class 39.

577,029. Feed Supplements Used in Animal and Poultry Feeds. Dawes Products Company, Chicago, Ill.
Filed July 14, 1952, Serial No. 632,507. Published Apr. 7, 1953. Class 18.

577,030. Canned Peas. Bozeman Canning Company, Inc., Bozeman, Mont.
Filed July 16, 1952, Serial No. 632,596. Published Apr. 14, 1953. Class 46.

577,031. Poultry Plucking Machines and Parts Thereof. Gordon Johnson Company, Kansas City, Mo.
Filed July 16, 1952, Serial No. 632,616. Published Mar. 10, 1953. Class 23.

577,032. Shoe Laces. Cleveland Mills Co., Lawndale, N. C.
Filed July 17, 1952, Serial No. 632,659. Published Feb. 17, 1953. Class 40.

577,033. Analgesic Preparation. The Wander Company, Chicago, Ill.
Filed July 18, 1952, Serial No. 632,762. Published Apr. 7, 1953. Class 18.

577,034. Therapeutic Preparation for Treating Infection (Tuberculosis). The Wander Company, Chicago, Ill.
Filed July 18, 1952, Serial No. 632,763. Published Apr. 7, 1953. Class 18.

577,035. Specially Processed, Micronized Barium Sulfate for X-Ray Diagnosis. Barnes-Hind Laboratories, San Francisco, Calif.
Filed July 22, 1952, Serial No. 632,866. Published Apr. 7, 1953. Class 88.

577,036. Ladies' Hosiery. Plymouth Wholesale Dry Goods Corporation, New York, N. Y.
Filed July 22, 1952, Serial No. 632,898. Published Apr. 7, 1953. Class 39.

577,037. Hand Wire Brushes for Cleaning and Abrading. The Beryllium Corporation, Reading, Pa.
Filed July 23, 1952, Serial No. 632,916. Published Apr. 21, 1953. Class 29.

577,038. Fabric Gloves. Wear-Right Gloves, Inc., New York, N. Y.
Filed July 25, 1952, Serial No. 633,004. Published Apr. 14, 1953. Class 39.

577,039. Bath Towels, Hand or Guest Towels, and Wash Cloths. Barth & Dreyfuss, Los Angeles, Calif.
Filed July 26, 1952, Serial No. 633,097. Published Apr. 21, 1953. Class 42.

577,040. Cameras. Sawyer's Inc., Portland, Oreg.
Filed July 28, 1952, Serial No. 633,170. Published Mar. 3, 1953. Class 26.

577,041. Electric Sewing Machines. Dorothy Schneider, doing business as Continental Sales & Sewing Machine Co., Brooklyn, N. Y.
Filed July 28, 1952, Serial No. 633,171. Published Apr. 14, 1953. Class 23.

577,042. Motor-Driven Dry Cleaning Machinery for Cleaning Clothes and Other Textiles. Max Blau, doing business as M. Blau Manufacturing Co., Altamonte Springs, Fla.
Filed July 30, 1952, Serial No. 633,251. Published Apr. 7, 1953. Class 24.

577,043. Liquid, Automobile Cleaner. Freeman & Freeman, Inc., Denver, Colo.
Filed July 30, 1952, Serial No. 633,260. Published Apr. 21, 1953. Class 52.

577,044. Cigarettes. Stephano Brothers, Philadelphia, Pa.
Filed Aug. 7, 1952, Serial No. 633,593. Published Apr. 14, 1953. Class 17.

577,045. Panties for Children. Miss Petite, Inc., New York, N. Y.
Filed Aug. 8, 1952, Serial No. 633,625. Published Apr. 14, 1953. Class 39.

577,046. Spectacle Frames. Victory Optical Manufacturing Co., Newark, N. J.
Filed July 29, 1952, Serial No. 633,825. Published Mar. 10, 1953. Class 26.

577,047. Artificial Fishing Lures. Aaron Ernest Woolfe, Miami Beach, Fla.
Filed Aug. 22, 1952, Serial No. 634,356. Published Mar. 31, 1953. Class 22.

577,048. Canned Evaporated Milk. The Page Milk Company, Merrill, Wis.
Filed Aug. 27, 1952, Serial No. 634,543. Published Apr. 21, 1953. Class 46.

577,049. Ironing Pads and Covers. Pilgrim Novelty Corporation, New York, N. Y.
Filed Aug. 30, 1952, Serial No. 634,712. Published Apr. 14, 1953. Class 24.

577,050. Paint Booth Coatings, Paint Coagulators, and Oil and Resin Base Paint. Pelron Corporation, Lyons, Ill.
Filed Sept. 2, 1952, Serial No. 634,755. Published Mar. 17, 1953. Class 16.



577,051. Buffing Compounds. Pelron Corporation, Lyons, Ill.
Filed Sept. 2, 1952, Serial No. 634,757. Published Apr. 7, 1953. Class 4.

577,052. Ladies', Misses', and Children's Tights, Leotards, Dance Dresses, Ballet Skirts, Outer Dance Skirts, Blousette and Short Combinations, and Top Shirts and Blouses. Anthony Costumes, Inc., New York, N. Y.
Filed Sept. 8, 1952, Serial No. 634,963. Published Apr. 14, 1953. Class 39.

577,053. Ladies' and Misses' Dresses, Blouses, and Outer Shirts. Wolfson & Greenbaum, Inc., New York, N. Y.
Filed Sept. 8, 1952, Serial No. 635,012. Published Apr. 14, 1953. Class 39.

577,054. Hosiery for Ladies, Men, and Children. Stephens & Stephens, Fort Smith, Ark.
Filed Sept. 9, 1952, Serial No. 635,066. Published Apr. 7, 1953. Class 39.

577,055. All Types of Natural and Synthetic Yarns Used in Making Fabrics for Ultimate Consumer Use Such as Wearing Apparel, Including Under and Outer Wear, Upholstery Fabric, Slip Covers, Curtains, Elastic Webbing, and Narrow Fabrics. Tryon Processing Co., Tryon, N. C.
Filed Sept. 11, 1952, Serial No. 635,155. Published Apr. 14, 1953. Class 43.

577,056. Tea and Instant Cocoa. Standard Brands Incorporated, New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,156. Published Mar. 24, 1953. Class 46.

577,057. Men's and Boys' Outer Suits and Overcoats. Aldens, Inc., Chicago, Ill.
Filed Sept. 13, 1952, Serial No. 635,211. Published Mar. 31, 1953. Class 39.

577,058. Internal Combustion Engines for Driving Generators and for General Power Application. Kohler Co., Kohler, Wis.
Filed Sept. 17, 1952, Serial No. 635,365. Published Mar. 17, 1953. Class 23.

577,059. Medicinal Hormone Preparation. Chemical Specialties Co., Inc., New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,401. Published Apr. 7, 1953. Class 18.

577,060. Child's Tailored Overall Garment. Lee-Wald Garment Company, Kansas City, Mo.
Filed Sept. 19, 1952, Serial No. 635,480. Published Apr. 21, 1953. Class 39.

577,061. Composition Containing d-Desoxyephedrine Hydrochloride and Vitamins Prepared for Use as a Cerebral Stimulant and Source of Vitamins. Abbott Laboratories, North Chicago, Ill.
Filed Sept. 20, 1952, Serial No. 635,508. Published Apr. 7, 1953. Class 18.

577,062. Maternity Wearing Apparel—Namely, Dresses, Suits, Coats, Jackets, Skirts, Gowns, Blouses, Waists, and Kimonos. Stork-Bound, Inc., New York, N. Y.
Filed Sept. 20, 1952, Serial No. 635,557. Published Apr. 14, 1953. Class 39.

577,063. Preparation Containing the Uterine Relaxing Factor of the Corpus Luteum. Hynson, Westcott & Dunning, Incorporated, Baltimore, Md.
Filed Sept. 22, 1952, Serial No. 635,596. Published Apr. 7, 1953. Class 18.

577,064. Handbags and Wallets. Lamured Plastic Corp., New York, N. Y.
Filed Sept. 22, 1952, Serial No. 635,601. Published Apr. 21, 1953. Class 3.

577,065. Misses' and Children's Handbags, Pocket Books and Purses, of Leather, Fabric, Leatherette Plastic, and Other Synthetic Materials and Combinations Thereof. Youth Mode Bags, Inc., New York, N. Y.
Filed Sept. 23, 1952, Serial No. 635,668. Published Apr. 21, 1953. Class 3.

577,066. Oleomargarine. E. F. Drew & Co., Inc., New York, N. Y.
Filed Sept. 24, 1952, Serial No. 635,691. Published Mar. 31, 1953. Class 46.

577,067. Bill Folds of Leather or Like Material. Enger-Kress Company, West Bend, Wis.
Filed Sept. 25, 1952, Serial No. 635,750. Published Apr. 14, 1953. Class 3.

577,068. Stabilized Vitamin Concentrates Containing Antibiotics for Use in Animal and Poultry Feeds. Nopco Chemical Company, Harrison, N. J.
Filed Sept. 30, 1952, Serial No. 635,972. Published Apr. 14, 1953. Class 18.

577,069. Printing Paper—Namely, Letter Press and Offset Book Paper. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Oct. 1, 1952, Serial No. 636,000. Published Apr. 21, 1953. Class 37.

577,070. Formula for the Relief of Pain and Muscle Spasm. Mutual Pharmacal Company, Inc., Syracuse, N. Y.
Filed Oct. 2, 1952, Serial No. 636,087. Published Apr. 14, 1953. Class 18.

577,071. Power Driven Masonry Saws. Clipper Manufacturing Company, Kansas City, Mo.
Filed Oct. 6, 1952, Serial No. 636,206. Published Mar. 31, 1953. Class 23.

577,072. Candy. The Great Atlantic and Pacific Tea Company, New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,356. Published Apr. 7, 1953. Class 46.

577,073. Radio Transmitters, Radio Knobs and Dials, Variable Frequency Oscillators, Etc. E. F. Johnson Company, Waseca, Minn.
Filed Oct. 9, 1952, Serial No. 636,421. Published Apr. 14, 1953. Class 21.

577,074. Cream Containing Vanilla, Sugar, and Stabilizer and in Which Cream Whipping Gas Is Dissolved Under Pressure, for Use as a Food Topping. Reddi-Wip, Inc., St. Louis, Mo.
Filed Oct. 10, 1952, Serial No. 636,495. Published Apr. 21, 1953. Class 46.

577,075. Cream Containing Vanilla, Sugar, and Stabilizer and in Which Cream Whipping Gas Is Dissolved Under Pressure, for Use as a Food Topping. Reddi-Wip, Inc., St. Louis, Mo.
Filed Oct. 10, 1952, Serial No. 636,496. Published Apr. 21, 1953. Class 46.

577,076. Voltage Regulating Tubes. Bendix Aviation Corporation, Detroit, Mich., and Teterboro, N. J.
Filed Oct. 14, 1952, Serial No. 636,583. Published Apr. 14, 1953. Class 21.

577,077. Ironing Board Pads and Ironing Board Pad Covers. Pressing Supply Company, Philadelphia, Pa.
Filed Oct. 14, 1952, Serial No. 636,604. Published Apr. 14, 1953. Class 24.

577,078. Girdles and Pantie Girdles. A. Stein & Company, Chicago, Ill.
Filed Oct. 14, 1952, Serial No. 636,615. Published Apr. 14, 1953. Class 39.

577,079. Rubber Latex Paint. F. O. Pierce Company, Long Island City, N. Y.
Filed Oct. 15, 1952, Serial No. 636,650. Published Apr. 21, 1953. Class 16.

577,080. Mildewcide Used in Protective Coatings. F. O. Pierce Company, Long Island City, N. Y.
Filed Oct. 15, 1952, Serial No. 636,651. Published Apr. 21, 1953. Class 16.

577,081. Molded Bottle and Jar Closures or Caps. Armstrong Cork Company, Lancaster, Pa.
Filed Oct. 16, 1952, Serial No. 636,675. Published Apr. 14, 1953. Class 50.

577,082. Women's Underwear. Augusta Knitting Corporation, Utica, N. Y.
Filed Oct. 17, 1952, Serial No. 636,762. Published Apr. 14, 1953. Class 39.

577,083. Women's and Misses' Dresses. Carol Crawford, Inc., New York, N. Y.
Filed Oct. 20, 1952, Serial No. 636,878. Published Apr. 14, 1953. Class 39.

577,084. Penicillin Derivative. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Oct. 22, 1952, Serial No. 636,965. Published Apr. 7, 1953. Class 18.

577,085. Corsets, Girdles, Brassières, and Combinations of Brassières and Girdles. Poirette Corsets, Inc., New York, N. Y.
Filed Oct. 22, 1952, Serial No. 636,999. Published Apr. 14, 1953. Class 39.

577,086. Textile Drying Machines. Bendix Home Appliances Division Avco Manufacturing Corporation, South Bend, Ind.
Filed Oct. 24, 1952, Serial No. 637,106. Published Apr. 7, 1953. Class 24.

577,087. Textile Ironing Machines. Bendix Home Appliances Division Avco Manufacturing Corporation, South Bend, Ind.
Filed Oct. 24, 1952, Serial No. 637,107. Published Apr. 7, 1953. Class 24.

577,088. Textile Washing Machines. Bendix Home Appliances Division Avco Manufacturing Corporation, South Bend, Ind.
Filed Oct. 24, 1952, Serial No. 637,108. Published Apr. 7, 1953. Class 24.

577,089. Girdles. International Corset Company, Aurora, Ill.
Filed Oct. 24, 1952, Serial No. 637,129. Published Apr. 14, 1953. Class 39.

577,090. Women's Apparel, Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-Ins, Panties, and Hosiery. Seamprufe Incorporated, New York, N. Y.
Filed Oct. 25, 1952, Serial No. 637,192. Published Apr. 14, 1953. Class 39.

577,091. Ironing Board Covers. Proctor Electric Company, Philadelphia, Pa.
Filed Oct. 29, 1952, Serial No. 637,327. Published Apr. 14, 1953. Class 24.

577,092. Fancy Sweet Mixed Pickles, Sweet Dill Strips, Sweet Pickle Chips, Dill Pickles, Kosher Dill Pickles, and Sweet Gherkins. Whiteman Food Products Company, Philadelphia, Pa.
Filed Oct. 30, 1952, Serial No. 637,413. Published Apr. 7, 1953. Class 46.

577,093. Cigars. Yocum Bros., Inc., Reading, Pa.
Filed Oct. 30, 1952, Serial No. 637,416. Published Apr. 21, 1953. Class 17.

577,094. Paint Brushes. American Brush Co., Inc., Roxbury, Mass.
Filed Nov. 1, 1952, Serial No. 637,472. Published Mar. 17, 1953. Class 29.

577,095. Yarns. United States Rubber Company, New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,509. Published Apr. 21, 1953. Class 43.

577,096. Ambulance Bodies and Funeral Car Bodies. Guy Barnette & Company, Inc., Memphis, Tenn.
Filed Nov. 3, 1952, Serial No. 637,538. Published Apr. 21, 1953. Class 19.

577,097. Fresh Vegetables. F. V. Birbeck Co., Watsonville, Calif.
Filed Nov. 4, 1952, Serial No. 637,566. Published Apr. 7, 1953. Class 46.

577,098. Automatic Hose Reel. Oilfield Equipment Company, Cincinnati, Ohio.
Filed Nov. 5, 1952, Serial No. 637,666. Published Apr. 7, 1953. Class 23.

577,099. Soil Conditioning Material. Karlson-Scott Chemical Corporation, Fort Lauderdale, Fla.
Filed Nov. 12, 1952, Serial No. 637,927. Published Apr. 21, 1953. Class 10.

577,100. House Trailers. Robert Gray, doing business as Shasta Trailer Company, Los Angeles, Calif.
Filed Nov. 13, 1952, Serial No. 637,992. Published Apr. 21, 1953. Class 19.

577,101. Food Products—Namely, Canned Fish. Sun-Pacific Inc., San Diego, Calif.
Filed Nov. 17, 1952, Serial No. 638,222. Published Apr. 21, 1953. Class 46.

577,102. Fishing Tackle—Namely, Artificial Lures, Fishing Rods and Reels, and Fishing Lines. Edward Leon Graham, doing business as Goof's, Kingstree, S. C.
Filed Nov. 20, 1952, Serial No. 638,361. Published Apr. 21, 1953. Class 22.

577,103. WITHDRAWN

577,104. Dolls. American Character Doll Co., New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,463. Published Apr. 21, 1953. Class 22.

577,105. Boats—Namely, Cabin Cruisers. Colonial Boat Works, Inc., Millville, N. J.
Filed Nov. 24, 1952, Serial No. 638,522. Published Apr. 21, 1953. Class 19.

577,106. Window Curtains and Draperies. Heidenberg Lace Net Curtain Co., Closter, N. J.
Filed Nov. 25, 1952, Serial No. 638,580. Published Apr. 21, 1953. Class 42.

577,107. Cereal Products—Namely, Self Rising Flour. W. A. Davis Milling Company, High Point, N. C.
Filed Nov. 26, 1952, Serial No. 638,637. Published Apr. 21, 1953. Class 46.

577,108. Cereal Products—Namely, Wheat Flour. W. A. Davis Milling Company, High Point, N. C.
Filed Nov. 26, 1952, Serial No. 638,638. Published Apr. 21, 1953. Class 46.

577,109. Woven Rugs. Chenille Rug Company, Minneapolis, Minn.
Filed Nov. 28, 1952, Serial No. 638,693. Published Apr. 21, 1953. Class 42.

577,110. Continuous Drawn Strands and Yarns Formed of Coated Glass Filaments. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Dec. 5, 1952, Serial No. 639,060. Published Apr. 21, 1953. Class 43.

577,111. Railway Friction Draft Gears and Friction Bolster Springs. Cardwell Westinghouse Company, Chicago, Ill.
Filed Dec. 11, 1952, Serial No. 639,314. Published Apr. 21, 1953. Class 19.

577,112. Brushes for Paint, Enamel, Varnish, and Stain. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 22, 1952, Serial No. 639,901. Published Apr. 14, 1953. Class 29.

577,113. Cookies and Cakes With Candy Fillings and Toppings. Zion Industries, Inc., Zion, Ill.
Filed Dec. 23, 1952, Serial No. 639,974. Published Apr. 14, 1953. Class 46.



577,114. Ready To Use Pancake Batter. Harry L. Soffer, doing business under the name Monroe Food Products Co., Monroe, N. Y.
Filed Dec. 30, 1952, Serial No. 640,171. Published Apr. 21, 1953. Class 46.

577,115. Children's Toys in the Nature of a Miniature Tool Bench. American Toy and Furniture Company, Inc., Chicago, Ill.
Filed Jan. 6, 1953, Serial No. 640,386. Published Apr. 21, 1953. Class 22.

577,116. Railroad Cars and Structural Railroad Car Parts. Marshall Railway Equipment Corporation, New York, N. Y.
Filed Jan. 16, 1953, Serial No. 640,864. Published Apr. 21, 1953. Class 19.

577,117. Sport Motor Cars, Not Including Engines. Woodill Motor Company, Downey, Calif.
Filed Jan. 16, 1953, Serial No. 640,878. Published Apr. 21, 1953. Class 19.

577,118. Canned Tomato Paste. La Industrial de Ensenada, S. de R. L., Ensenada, Lower California, Mexico.
Filed Jan. 19, 1953, Serial No. 640,942. Published Apr. 21, 1953. Class 46.

577,119. Cellulose Sponge Dish Mops. Edward M. Squarey, West Orange, N. J.
Filed Jan. 23, 1953, Serial No. 641,219. Published Apr. 21, 1953. Class 29.

577,120. Golf Balls. The Associated Merchandising Corporation, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,891. Published Apr. 21, 1953. Class 22.

577,121. Golf Balls. The Associated Merchandising Corporation, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,892. Published Apr. 21, 1953. Class 22.

577,122. Golf Balls. The Associated Merchandising Corporation, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,893. Published Apr. 21, 1953. Class 22.

577,123. Leaf Springs and Coil Springs for Vehicles and Tie Rod Ends. Pan American Trade Development Corp., New York, N. Y.
Filed Feb. 10, 1953, Serial No. 642,043. Published Apr. 21, 1953. Class 19.

577,124. Fish Lines. Cortland Line Company, Inc., Cortland, N. Y.
Filed Feb. 11, 1953, Serial No. 642,068. Published Apr. 21, 1953. Class 22.

### Service Marks

577,125. CONSOLIDATED CERTIFICATE. The Singer Manufacturing Company, Elizabeth, N. J.
Renting of Sewing Machines to the Public, and for Engineering and Consulting Services, Etc. Filed May 14, 1952, Serial No. 629,694. Published Mar. 31, 1953. Class 100.
Management Engineering—Namely, the Study of Economical Use of Raw Material, Etc. Filed May 14, 1952, Serial No. 629,693. Published Mar. 31, 1953. Class 101.
Fashion Services—Namely, Covering Buttons, Hemstitching, Embroidering, Making Buttonholes, Dressmaking, Making Belts, and Making and Fitting Dress Forms. Filed Nov. 15, 1952, Serial No. 638,164. Published Mar. 31, 1953. Class 106.
Service, Maintenance, and Repair of Home Appliances—Namely, Sewing Machines, Etc. Filed May 14, 1952, Serial No. 629,695. Published Mar. 31, 1953. Class 103.
Teaching of Hand and Machine Sewing in Classrooms Maintained and With Equipment Owned and Through the Use of Text Material Especially Prepared by Singer Sewing Machine Company. Filed May 14, 1952, Serial No. 629,696. Published Mar. 31, 1953. Class 107.

577,126. CONSOLIDATED CERTIFICATE. The Singer Manufacturing Company, Elizabeth, N. J.
Renting of Sewing Machines to the Public, and for Engineering and Consulting Services, Etc. Filed May 14, 1952, Serial No. 629,699. Published Mar. 31, 1953. Class 100.
Management Engineering—Namely, the Study of Economical Use of Raw Material, Etc. Filed May 14, 1952, Serial No. 629,698. Published Mar. 31, 1953. Class 101.
Service, Maintenance, and Repair of Home Appliances—Namely, Sewing Machines, Etc. Filed May 14, 1952, Serial No. 629,700. Published Mar. 31, 1953. Class 103.
Fashion Services—Namely, Covering Buttons, Hemstitching, Embroidering, Making Buttonholes, Dressmaking, Making Belts, and Making and Fitting Dress Forms. Filed Nov. 12, 1952, Serial No. 637,957. Published Mar. 31, 1953. Class 106.
Teaching of Hand and Machine Sewing in Classrooms Maintained and With Equipment Owned and Through the Use of Text Material Especially Prepared by Singer Sewing Machine Company. Filed May 14, 1952, Serial No. 629,701. Published Mar. 31, 1953. Class 107.

577,127. Air Transportation of Persons, Property, and Mail and for Arranging All-Expense Vacation Tours. Eastern Air Lines, Inc., New York, N. Y.
Filed July 25, 1952, Serial No. 633,043. Published Apr. 21, 1953. Class 105.

## ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

577,128. (Class 2. Receptacles.) Melmar, Inc., Hoboken, N. J. Original filed, act of 1946, Principal Register, May 11, 1948; amended to application, Supplemental Register, Sept. 12, 1951, Serial No. 556,807.

CHAPEL

For Finger Ring Boxes Made of Plastic, Wood, Non-Precious Metal, and Combinations Thereof.
Claims use since June 25, 1947.

577,129. (Class 1. Raw or Partly Prepared Materials.) Edward E. Gurian & Co., Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, July 3, 1948; amended to application, Supplemental Register, Apr. 21, 1953, Serial No. 560,702.

Kleen-All

For Rubber Sponges.
Claims use since May 1946.

577,130. (Class 46. Foods and Ingredients of Foods.) Rich Products Corp., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Aug. 27, 1949; amended to application, Supplemental Register, Oct. 11, 1951, Serial No. 584,155.

Top-it

For Liquid Foodstuff, Including as Its Principal Ingredients, Vegetable Fat, Vegetable Protein, Carbohydrates and Water and Capable of Being Aerated to Form a Stable Foam for Use as a Topping for Desserts and Salads and the Like.
Claims use since April 1938.

577,131. (Class 32. Detergents and Soaps.) Marcus N. Pergament, doing business as Kleen-Pup Laboratories, Arabi, La. Original filed, act of 1946, Principal Register, Oct. 10, 1949; amended to application, Supplemental Register, Sept. 8, 1952, Serial No. 586,061.

kleen-pup

For Soap.
Claims use since August 1949

577,132. (Class 46. Foods and Ingredients of Foods.) Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Original filed, act of 1946, Principal Register, Nov. 22, 1949; amended to application, Supplemental Register, Mar. 21, 1952, Serial No. 588,165.

FRIDAY FRANKS

For Prepared Fish in the Form of Sausages.
Claims use since December 1948.

577,133. (Class 22. Games, Toys, and Sporting Goods.) Ever Tick Corporation, Floral Park, N. Y. Original filed, act of 1946, Principal Register, Mar. 13, 1950; amended to application, Supplemental Register, May 1, 1953, Serial No. 593,863.

EVER TICK

For Toy Watches.
Claims use since Mar. 7, 1950.

577,134. (Class 46. Foods and Ingredients of Foods.) Helms Bakeries, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 24, 1950; amended to application, Supplemental Register, Apr. 12, 1952, Serial No. 596,226.




The descriptive words relating to the ingredients and enrichment of applicant's goods along with the copyright notice, the wording on the two seals, the word "Bread," the words "White Bread" and "Standard Loaf Min. Wt. 15 oz." are disclaimed. Applicant claims ownership of Registration No. 360,431.
For Bakery Goods—Namely, Bread.
Claims use since Apr. 18, 1950.

577,135. (Class 26. Measuring and Scientific Appliances.) Bailey Meter Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Sept. 8, 1950; amended to application, Supplemental Register, May 25, 1953, Serial No. 603,280.

GAGE GROUPING
FOR
POINTER PATTERN

For Fluid Pressure Control Instrument for Supplying and Indicating Selected Control Pressures, Unit Comprising Automatic-Manual Selector Valve With Indicator for Supplying and Indicating Selected Control Fluid Pressures, Pressure Gages, Fluid Pressure Operated Indicating Instruments, Unit Comprising Fluid Pressure Responsive Valve Combined With Indicators for Measuring the Input and Output Fluid Pressures, Remote Liquid Level Indicators, Pneumatic Telemeters, Remote Temperature Meters, and Panels Embodying One or More of the Above-Mentioned Instruments.
Claims use since on or about Sept. 1, 1950.

577,136. (Class 22. Games, Toys, and Sporting Goods.) John Morrison, Franconia, N. H. Original filed, act of 1946, Principal Register, Nov. 18, 1950; amended to application, Supplemental Register, Nov. 4, 1952, Serial No. 606,624.

TAP
—A—
PEG

For Hammer Toy for Young Children.
Claims use since July 8, 1949.



577,137. (Class 14. Metals and Metal Castings and Forgings.) Kencroft Malleable Co., Inc., Buffalo, N. Y. Original filed, act of 1946, Principal Register, Jan. 9, 1951; amended to application, Supplemental Register, June 19, 1952, Serial No. 608,547.

A1

For Malleable Castings, Cast Iron Castings, and Alloy Malleable Castings.
Claims use since May 1950.

577,138. (Class 12. Construction Materials.) Masonry Resurfacing & Construction Co., Inc., Baltimore, Md. Original filed, act of 1946, Principal Register, May 19, 1951; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 614,093.

DRI-POR

For Portable Coffer-Dams.
Claims use since May 12, 1951.

577,139. (Class 46. Foods and Ingredients of Foods.) California Date Growers Association, Indio, Calif. Original filed, act of 1946, Principal Register, July 30, 1951; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 617,106.




All wording is disclaimed apart from the mark. The drawing is lined for brown but no claim is made to color.
For Fresh Dates.
Claims use since September 1949.

577,140. (Class 2. Receptacles.) Alvin J. Walker, Sr., Delphos, Ohio. Original filed, act of 1946, Principal Register, Sept. 29, 1951; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 619,416.

QUICK COUNT

For Money Bags.
Claims use since July 10, 1949.

577,141. (Class 2. Receptacles.) The Flintkote Company, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 30, 1951; amended to application, Supplemental Register, Apr. 21, 1953, Serial No. 621,879.

CYLINDER-KOTE

For Paperboard Boxes.
Claims use since Apr. 11, 1949.

577,142. (Class 12. Construction Materials.) John F. Leutzinger, doing business as Forest Interiors Manufacturing Co., Seattle, Wash. Original filed, act of 1946, Principal Register, Dec. 15, 1951; amended to application, Supplemental Register, Dec. 8, 1952, Serial No. 622,548.

Putty Stik

For Putty Prepared in Various Colors To Match the Material To Which Same Is Applied.
Claims use since Jan. 29, 1951.

577,143. (Class 46. Foods and Ingredients of Foods.) Fruitland Canning Association, Inc., Fruitland, Idaho. Original filed, act of 1946, Principal Register, Dec. 17, 1951; amended to application, Supplemental Register, Feb. 16, 1953, Serial No. 622,588.

PAYETTE VALLEY

Applicant claims ownership of Registration No. 505,900.
For Canned Fruits.
Claims use since Nov. 21, 1951.

577,144. (Class 46. Foods and Ingredients of Foods.) Tempeco Groves, Tempe, Ariz. Original filed, act of 1946, Principal Register, Feb. 23, 1952; amended to application, Supplemental Register, Mar. 20, 1953, Serial No. 625,440.

DESERT SUPREME

For Fresh Citrus Fruits, Orange Marmalade, and Fruit Preserves.
Claims use since June 11, 1951.

577,145. (Class 51. Cosmetics and Toilet Preparations.) Lucien Lelong, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 25, 1952; amended to application, Supplemental Register, Mar. 30, 1953, Serial No. 625,478.

Cologne of the Hour

For Cologne.
Claims use since Feb. 14, 1952.

577,146. (Class 2. Receptacles.) Orchard Paper Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Feb. 25, 1952; amended to application, Supplemental Register, May 1, 1953, Serial No. 625,485.

BRIGHTON BLEND

For Paper Merchandise Bags.
Claims use since Jan. 10, 1949.

577,147. (Class 16. Protective and Decorative Coatings.) The Sherwin-Williams Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Mar. 4, 1952; amended to application, Supplemental Register, Sept. 30, 1952, Serial No. 625,925.

TANK CLAD

For Paint Enamels; Paint Primers; and Thinners for Use in Paints, Enamels, or Similar Type Coatings, or as Ingredients of These Coatings.
Claims use since Oct. 30, 1950.

577,148. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Frank M. Tenney, Decatur, Ill., assignor to The National System of Garage Ventilation Inc., Decatur, Ill. Filed Mar. 29, 1952, Serial No. 627,286.

THE National

For Ventilating Systems for Garages, Comprising an Overhead and Under-Floor Duct System Having Motor Operated Vacuum Exhaust Means.
Claims use since Feb. 14, 1950.

577,149. (Class 46. Foods and Ingredients of Foods.) Doyle Packing Company, Los Angeles, Calif., assignor to Doyle Packing Company, Los Angeles, Calif., a co-partnership. Original filed, act of 1946, Principal Register, Apr. 4, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 627,563.

"It's LOVE AT FIRST Bite"

For Canned Dog Food Containing Meat By-Products, Cracked Barley, Wheat Bran, Meat, Meal, Soya Bean Grits, Carrots, Salt, Flavoring, Iron Oxide, Sodium Nitrate and Water Sufficient for Processing and Other Varying Formulas Containing Horse Meat, Cracked Corn, and Cracked Wheat.
Claims use since Mar. 17, 1952.

577,150. (Class 10. Fertilizers.) Naco Fertilizer Company, New York, N. Y. Original filed, act of 1946, Principal Register, May 7, 1952; amended to application, Supplemental Register, May 14, 1953, Serial No. 629,313.

Nurish

For Soluble Plant Food.
Claims use since Feb. 16, 1952.

577,151. (Class 46. Foods and Ingredients of Foods.) Robinson Syrup Company, Inc., doing business as Robinson Syrup & Canning Co., Cairo, Ga. Original filed, act of 1946, Principal Register, May 8, 1952; amended to application, Supplemental Register, Mar. 12, 1953, Serial No. 629,389.

HONEE SWEET

Applicant claims ownership of Registration No. 365,834.
For Table Syrups.
Claims use since Feb. 29, 1952.

577,152. (Class 51. Cosmetics and Toilet Preparations.) Harry Roberts, Philadelphia, Pa. Filed June 5, 1952, Serial No. 630,794.

Lanolan #99

For Hair Cream.
Claims use since Feb. 14, 1951.

577,153. (Class 46. Foods and Ingredients of Foods.) Robert F. Hunsicker, doing business under the name and style of Allen Products Company, Allentown, Pa. Original filed, act of 1946, Principal Register, July 14, 1952; amended to application, Supplemental Register, Apr. 24, 1953, Serial No. 632,523.



The drawing is lined for red and green but no claim is made to color as such. Applicant claims ownership of Registration No. 431,917.
For Dog Food.
Claims use since Feb. 9, 1952.

577,154. (Class 46. Foods and Ingredients of Foods.) Day & Young, Santa Clara, Calif. Original filed, act of 1946, Principal Register, Aug. 11, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 633,717.

Softly Folded

For Assorted Dried Fruits—Namely, Prunes, Pears, Peaches, Apricots, and Dates.
Claims use since Apr. 24, 1952.



577,155. (Class 46. Foods and Ingredients of Foods.) Fenn Bros., Inc., Sioux Falls, S. Dak. Original filed, act of 1946, Principal Register, Dec. 30, 1952; amended to application, Supplemental Register, Feb. 24, 1953, Serial No. 640,154.




No exclusive claim is made to the words "Horehound Stick," apart from the mark as shown in the drawing. The drawing is lined for orange and brown. Applicant claims ownership of Registrations Nos. 506,035 and 275,900.
For Horehound-Flavored Stick Candy.
Claims use since Dec. 1, 1938.

**Service Mark**

577,156. (Class 103. Construction and Repair.) Brooklyn Blower & Pipe Co., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, July 19, 1950; amended to application, Supplemental Register, Apr. 22, 1953, Serial No. 600,876.



For Repairing, Servicing, and Maintaining of Exhaust and Blower Systems for Removing and Conveying Shavings, Dust, Heat, Fumes, and Vapors.
Claims use since Oct. 15, 1923.

## TRADE-MARK REGISTRATIONS RENEWED

40,024. REPRESENTATION OF TWO CRANES STANDING IN WATER. Registered Mar. 31, 1903. Willard G. Crane, Auburn, N. Y. Re-renewed Mar. 31, 1953, to Armour and Company, Chicago, Ill., a corporation of Illinois. White Laundry Soap. Class 52.

40,724. WORLD. Registered July 7, 1903. The American Silver Company, Bristol, Conn. Re-renewed July 7, 1953, to The International Silver Company, Meriden, Conn., a corporation of Connecticut. Silver and Plated Articles of Tableware. Class 28.

40,841. BULLET. Registered July 28, 1903. Crucible Steel Company of America, Jersey City, N. J., and New York, N. Y. Re-renewed July 28, 1953, to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey. Tool-Steel. Class 14.

89,518. "H. UPMANN" AND DESIGN. Registered Dec. 17, 1912. H. Upmann & Co. Re-renewed Dec. 17, 1952, to Menendez Garcia y Compania Limitada, Habana, Cuba, a company incorporated under the laws of Cuba. Cigars. Class 17.

90,352. JERSEY DREAM. Registered Feb. 18, 1913. Layton Pure Food Company, East St. Louis, Ill. Renewed Feb. 18, 1953, to Hulman & Company, Rumford, R. I., a corporation of Indiana. Baking-Powder and Baking-Soda. Class 46.

90,885. "PLAYMATE" AND DESIGN. Registered Apr. 1, 1913. Harris-Lipsitz Co., Dallas, Tex., and New York, N. Y. Re-renewed Apr. 1, 1953, to Higginbotham Bailey Company, Dallas, Tex., a corporation of Texas. Children's Rompers. Class 39.

90,892. "KENWOOD." Registered Apr. 1, 1913. F. C. Huyck and Sons, Rensselaer and Albany, N. Y. Renewed Apr. 1, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Paper-Makers' Jackets, Woolen Cloths for Mechanical Purposes, and Color-Cloths for Carrying the Color on Wall-Paper. Class 50.

91,011. "OLD MOTHER GOOSE" ETC. AND DESIGN. Registered Apr. 8, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Apr. 8, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

91,913. "GREAT SEAL" ETC. AND DESIGN. Registered Apr. 8, 1913. New York Belting & Packing Co. Ltd., assignor to New York Belting and Packing Company. Re-renewed Apr. 8, 1953, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Belting, Hose, and Packing Composed of Rubber and Fabric Reinforced With Fabric and Metal. Class 35.

91,113. BOUQUET. Registered Apr. 15, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Apr. 15, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

91,227. LORNA DOONE. Registered Apr. 22, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Apr. 22, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

91,876. INTERTYPE. Registered June 3, 1913. International Typesetting Machine Company, New York, N. Y. Re-renewed June 3, 1953, to Intertype Corporation, Brooklyn, N. Y., a corporation of New York. Type Casting, Setting, and Composing Machines. Class 23.

91,971. ROSELAND. Registered June 10, 1913. Henry C. Kelley Company. Re-renewed June 10, 1953, to The Grady-Travers Company, Inc., New York, N. Y., a corporation of New York. Cords, Twines, Ropes, and Lines, Said Lines Being of the Nature of Clothes-Lines Made of Cotton or Other Yarn. Class 7.

92,258. 401. Registered June 24, 1913. Phillips-Hendon Co. Re-renewed June 24, 1953, to Phillips-Lester Manufacturing Company, Inc., Birmingham, Ala., a corporation of Alabama. Men's, Youths', and Boys' Overalls, Coats, Trousers, Etc. Class 39.

92,388. ALBION. Registered July 8, 1913. American Writing Paper Co. Re-renewed July 8, 1953, to American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware. Book-Paper. Class 37.

92,447. AMERICAN BEAUTY. Registered July 8, 1913. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed July 8, 1953, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

92,560. PEARL. Registered July 15, 1913. Henry C. Kelley Company. Re-renewed July 15, 1953, to The Grady-Travers Company, Inc., New York, N. Y., a corporation of New York. Cords, Twines, Ropes, and Lines, Said Lines Being of the Nature of Clothes-Lines Made of Cotton or Other Yarn. Class 7.

92,561. DAUNTLESS. Registered July 15, 1913. Henry C. Kelley Company. Re-renewed July 15, 1953, to The Grady-Travers Company, Inc., New York, N. Y., a corporation of New York. Cords, Twines, Ropes, and Lines, Said Lines Being of the Nature of Clothes-Lines Made of Cotton or Other Yarn. Class 7.

92,795. "CIRCUS" AND DESIGN. Registered July 29, 1913. Frank Herfort. Re-renewed July 29, 1953, to Frank Herfort Canning Co., Inc., Baraboo, Wis., a corporation of Wisconsin. Canned Vegetables. Class 46.

93,064. BITURINE. Registered Aug. 19, 1913. The Biturine Company of America. Re-renewed Aug. 19, 1953, to General Paint Corporation, San Francisco, Calif., a corporation of Nevada. Paints, Dry, Paste, Ready-Mixed, and in Solid Form Applied by Heat. Class 16.

93,080. LIFE SAVERS. Registered Aug. 19, 1913, Clarence Arthur Crane, Cleveland, Ohio. Re-renewed Aug. 19, 1953, to Life Savers Corporation, Port Chester, N. Y., a corporation of Delaware. Candy. Class 46.

93,161. BILLIKEN. Registered Aug. 26, 1913. Burrow, Jones & Dyer Shoe Co., St. Louis, Mo. Re-renewed Aug. 26, 1953, to Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia. Misses' and Children's Leather Shoes. Class 39.

93,184. HICKORY. Registered Aug. 26, 1913. Henry C. Kelley Company. Re-renewed Aug. 26, 1953, to The Grady-Travers Company, Inc., New York, N. Y., a corporation of New York. Cords, Twines, Ropes, and Clothes-Lines Made of Cotton or Other Yarn. Class 7.

93,267. "DISFICO" AND DESIGN. Registered Sept. 2, 1913. Diamond State Fibre Company, Elsmere, Del. Re-renewed Sept. 2, 1953, to Continental-Diamond Fibre Company, Newark, Del., a corporation of Delaware. Goods Made of Vulcanized Fiber for Electrical Purposes—Viz: Wire Cleats, Etc. Class 21.

93,428. REPRESENTATION OF TWIN NOTES. Registered Sept. 16, 1913. Columbia Graphophone Company, Washington, D. C. Re-renewed Sept. 16, 1953, to Columbia Records Inc., Bridgeport, Conn., a corporation of Delaware. Talking-Machines and Talking-Machine Records. Class 36.

93,517. BRILLO. Registered Sept. 23, 1913. Philip J. Brady, New York, N. Y. Re-renewed Sept. 23, 1953, to Brillo Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York. Aluminum Cleansers. Class 52.

93,576. "GOLDEN SUN" AND DESIGN. Registered Sept. 23, 1913. The Woolson Spice Company, Toledo, Ohio, a corporation of Ohio. Re-renewed Sept. 23, 1953. Tea. Class 46.

300,396. "BORG & BECK CLUTCH" ETC. AND DESIGN. Registered Jan. 17, 1933. The Borg & Beck Company. Renewed Jan. 17, 1953, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois. Mechanical Clutches, Clutch Plates, and Parts Thereof. Class 23.

300,403. "MOCKING BIRD" AND DRAWING. Registered Jan. 17, 1933. Citra Packing Company, Incorporated, Citra, Fla., a corporation of Florida. Renewed Jan. 17, 1953. Oranges, Lemons, Grape-Fruit, Tangerines, and Limes. Class 46.

300,489. "STAR AND CRESCENT" AND DRAWING. Registered Jan. 24, 1933. Citra Packing Company, Incorporated, Citra, Fla., a corporation of Florida. Renewed Jan. 24, 1953. Oranges, Lemons, Grape-Fruit, Tangerines, and Limes. Class 46.

300,736. HEALTH CLUB. Registered Feb. 7, 1933. Layton Pure Food Company, Providence, R. I., and East St. Louis, Ill. Renewed Feb. 7, 1953, to Hulman & Company, Rumford, R. I., a corporation of Indiana. Baking Powder. Class 46.

300,769. "NO. 83" LINED FOR RED. Registered Feb. 7, 1933. Joseph E. Seagram & Sons Limited, Waterloo, Ontario, Canada. Renewed Feb. 7, 1953, to Seagram-Distillers Corporation, New York, N. Y., a corporation of Delaware. Whiskey and Potable Spirits. Class 49.

300,816. FLEXADOR. Registered Feb. 7, 1933. Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware. Renewed Feb. 7, 1953. Ash Receivers of Non-Precious Metal. Class 8.

300,866. "BRAUMEISTER" ETC. AND DESIGN. Registered Feb. 14, 1933. Independent Milwaukee Brewery, Milwaukee, Wis., a corporation of Wisconsin. Renewed Feb. 14, 1953. Malt Beverage With Not More Than the Legal Alcoholic Content. Class 48.

301,233. MARKOTE. Registered Feb. 21, 1933. The Martin Cantine Company, Saugerties, N. Y., a corporation of New York. Renewed Feb. 21, 1953. Clay Coated Paper. Class 37.

301,400. "A.H.&S." AND DESIGN. Registered Feb. 28, 1933. A. Hollander & Son, Inc., Newark, N. J., a corporation of Delaware. Renewed Feb. 28, 1953. Fur Skins. Class 1.

301,404. "HOLLANDER SEAL" ETC. AND DESIGN. Registered Feb. 28, 1933. A. Hollander & Son, Inc., Newark, N. J., a corporation of Delaware. Renewed Feb. 28, 1953. Fur Skins, Particularly Muskrat Skins Dyed in Imitation of Seal. Class 1.

301,518. VAPORATOR. Registered Mar. 7, 1933. Odora Company, Inc. Renewed Mar. 7, 1953, to Gahree Products Company, Inc., New York, N. Y., a corporation of New York. Moth Repellant. Class 6.

301,726. SEAGRAM. Registered Mar. 14, 1933. Joseph E. Seagram & Sons Limited, Waterloo, Ontario, Canada. Renewed Mar. 14, 1953, to Seagram-Distillers Corporation, New York, N. Y., a corporation of Delaware. Whiskey and Potable Spirits. Class 49.

301,763. "CENTRAL-IZE." Registered Mar. 14, 1933. Central United National Bank of Cleveland. Renewed Mar. 14, 1953, to Central National Bank of Cleveland, Cleveland, Ohio, an association organized under the banking laws of the United States. Publications, Issued From Time to Time Containing Matters of General Interest. Class 38.

301,809. REPRESENTATION OF AN EAGLE ETC. Registered Mar. 14, 1933. Central United National Bank of Cleveland. Renewed Mar. 14, 1953, to Central National Bank of Cleveland, Cleveland, Ohio, an association organized under the banking laws of the United States. Publications Issued From Time to Time Containing Matters of General Interest. Class 38.

302,172. VISIONAIRE. Registered Apr. 4, 1933. M. Mitchell Gruhn, New York, N. Y. Renewed Apr. 4, 1953. Radio Receiving Sets, Radio Television Sets, and Parts Therefor—Namely, Rectifying, Receiving, Amplifying, and Transmitting Radio Tubes. Class 21.

302,182. "SEAGRAM'S V. O." ETC. AND DESIGN. Registered Apr. 4, 1933. Joseph E. Seagram & Sons Limited, Waterloo, Ontario, Canada. Renewed Apr. 4, 1953, to Seagram-Distillers Corporation, New York, N. Y., a corporation of Delaware. Whisky. Class 49.

302,186. BEMBERGETTE. Registered Apr. 4, 1933. I. P. Bemberg Aktiengesellschaft, Wuppertal Oberbarmen, Germany, assignor to American Bemberg Corp. Renewed Apr. 4, 1953, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York. Knitted, Netted, and Textile Materials in the Piece, Composed Wholly or in Part of Filaments of Artificial Origin—Namely, Filaments of Artificial Silk. Class 42.

302,212. SILEX. Registered Apr. 4, 1933. The Silex Company, Hartford, Conn., a corporation of Connecticut. Renewed Apr. 4, 1953. Stoves, Gas and Spirit. Class 34.

302,220. UNITY. Registered Apr. 4, 1933. C. Meisel, Inc., New York, N. Y. Renewed Apr. 4, 1953, to C. Meisel Music Co. Inc., Union, N. J., a corporation of New Jersey. Violins, Violas, Violoncellos, Double Basses, Mandolins, Guitars, Banjos, Etc. Class 36.

302,231. CRAYARTO. Registered Apr. 4, 1933. Sandusky Crayon Company, Inc., Renewed Apr. 4, 1953, to The American Crayon Company, Sandusky, Ohio, a corporation of Ohio. Crayons. Class 37.

302,246. "CHARMED CIRCLE" AND DESIGN. Registered Apr. 4, 1933. National Silk Hosiery Mills, Inc. Renewed Apr. 4, 1953, to National Hosiery Mills, Inc., Indianapolis, Ind., a corporation of Indiana. Hosiery. Class 39.

302,299. "GNOME" AND DESIGN. Registered Apr. 11, 1933. Gnome Bakery, Inc. Renewed Apr. 11, 1953, to Gnome Bakers, Inc., New York, N. Y., a corporation of New York. Bread. Class 46.

302,302. "GOLDEN CROWN" AND DESIGN LINED FOR GOLD. Registered Apr. 11, 1933. Walgreen Co., Chicago, Ill., a corporation of Illinois. Renewed Apr. 11, 1953. Golf Balls. Class 22.



302,306. VAL-HI. Registered Apr. 11, 1933. Valencia Heights Orchards, Inc. Renewed Apr. 11, 1953, to Valencia Heights Orchards Association, Covina, Calif., a corporation of California. Fresh Citrus Fruits. Class 46.

302,356. REPRESENTATION OF CROWN AND DESIGN LINED FOR RED, GOLD, AND BLACK. Registered Apr. 11, 1933. Walgreen Co., Chicago, Ill., a corporation of Illinois. Renewed Apr. 11, 1953. Golf Balls. Class 22.

302,428. RITE. Registered Apr. 18, 1933. Borun Bros., Los Angeles, Calif., a corporation of California. Renewed Apr. 18, 1953. Pharmaceutical Preparations—Namely, Nasal Balm, White Liniment for External Use, Diuretic Compound, Etc. Class 51.

302,690. STURDICAST. Registered Apr. 25, 1933. J. F. Jelenko & Co., Inc., New York, N. Y., a corporation of New York. Renewed Apr. 25, 1953. Dental Gold. Class 44.

302,851. "COLGATE'S" ETC. AND REPRESENTATION OF CARTON, LINED FOR RED AND BLACK. Registered May 2, 1933, to Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed May 2, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Dental Cream. Class 51.

303,053. PATHFINDER. Registered May 9, 1933. Saks & Company, New York, N. Y., a corporation of New York. Renewed May 9, 1953. Trunks, Handbags, Suit-Cases, and Other Forms of Luggage Consisting of Hat Boxes, Kit Bags, and Brief Cases. Class 3.

303,162. MELVALE. Registered May 16, 1933. Jos. S. Finch & Company, New York, N. Y. Renewed May 16, 1953, to Joseph S. Finch and Company, New York, N. Y., and Schenley, Pa., a corporation of Pennsylvania. Whiskey. Class 49.

303,323. "TOWLSAVER" ETC. AND DESIGN. Registered May 23, 1933. Towlsaver, Inc., Los Angeles, Calif., a corporation of California. Renewed May 23, 1953. Paper Towel Dispensing Machines. Class 23.

303,356. MUROGOMME. Registered May 23, 1933. Hood Rubber Company, Inc., Watertown, Mass. Renewed May 23, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Wall Covering Consisting of Sheeting of Prepared Rubber Backed With Fabric. Class 50.

303,441. "VITRON" WITHIN CIRCLE. Registered May 23, 1933. E. Frederics, Inc., New York, N. Y. Renewed May 23, 1953, to E. Frederics, Inc., Brooklyn, N. Y., a corporation of New York. Pads Used in the Permanent Waving of Human Hair. Class 44.

303,476. HYPO-ALLERGIC. Registered May 23, 1933. S. M. A. Corporation, Cleveland, Ohio. Renewed May 23, 1953, to American Home Products Corporation, doing business as Wyeth Laboratories, New York, N. Y., and Philadelphia, Pa., a corporation of Delaware. Milk. Class 46.

303,682. CRITERION TEETH. Registered June 6, 1933. Universal Dental Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed June 6, 1953. Artificial Teeth. Class 44.

303,715. SPUN-LO. Registered June 6, 1933. Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware. Renewed June 6, 1953. Rayon Fabrics in the Piece. Class 42.

303,907. SISU. Registered June 13, 1933. Aktiebolaget Iggesunds Bruk, Iggesund, Sweden, a corporation organized under the laws of Sweden. Renewed June 13, 1953. Wood Pulp, Especially Such Produced by Chemical Way. Class 1.

304,032. DUPONOL. Registered June 20, 1933. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed June 20, 1953. Sulfonated Alcohols. Class 6.

304,065. I-SO-GEL. Registered June 20, 1933. Allen & Hanburys, Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed June 20, 1953. Medicinal Laxative Preparation. Class 18.

304,177. SCHWEPPES. Registered June 27, 1933. Schweppes (Colonial & Foreign) Limited. Renewed June 27, 1953, to Schweppes (Overseas) Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Natural Mineral and Aerated Drinking Waters and Ginger Beer. Class 45.

304,268. PEACOCK. Registered June 27, 1933. Shellabarger Mill & Elevator Company, Salina, Kans. Renewed June 27, 1953, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Grey Shorts, Wheat Mixed Feed and Bran, and Poultry Feeds. Class 46.

304,318. REPRESENTATION OF ALEMRIC HEXAGON. Registered June 27, 1933. The Naugatuck Chemical Company. Renewed June 27, 1953, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Latex Composition. Class 1.

304,350. "STEARNS' ELECTRIC PASTE" ETC. AND DESIGN LINED FOR BLACK AND YELLOW. Registered July 4, 1933. Stearns' Electric Paste Company, Inc. Renewed July 4, 1953, to Stearns' Electric Paste Co., Chicago, Ill., a co-partnership. Poison in Paste Form for Rats, Mice, Etc. Class 6.

304,514. TAR-O-LENE. Registered July 11, 1933. J. Warren Bullen, doing business as The Bullen Chemical Company. Renewed July 11, 1953, to The Bullen Chemical Company, Inc., Folcroft, Pa., a corporation of Pennsylvania. Insecticide and Disinfectant. Class 6.

304,706. "GEORGE GOULET" ETC. AND DESIGN. Registered July 18, 1933. Vve. George Goulet & Cie. Renewed July 18, 1953, to Societe a Responsabilite Limitee Champagne George Goulet, Reims, France, a corporation organized under the laws of the Republic of France. Champagne and Wines. Class 47.

304,764. MEDICO. Registered July 18, 1933. S. M. Frank & Co., Inc., New York, N. Y., a corporation of New York. Renewed July 18, 1953. Tobacco Pipes, Filters, and Cigar and Cigarette Holders. Class 8.

304,767. FRANK. Registered July 18, 1933. S. M. Frank & Co., Inc., New York, N. Y., a corporation of New York. Renewed July 18, 1953. Tobacco Pipes, Cigar and Cigarette Holders and Filters. Class 8.

304,775. SOFTO. Registered July 18, 1933. Northern Paper Mills, Green Bay, Wis., a corporation of Wisconsin. Renewed July 18, 1953. Toilet Paper. Class 37.

304,923. TEXTILIAN. Registered July 25, 1933. The Textile Mills Corporation. Renewed July 25, 1953, to Adams-Mills Corporation, High Point, N. C., a corporation of North Carolina. Hosiery. Class 39.

305,055. CADET. Registered July 25, 1933. West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin. Renewed July 25, 1953. Electric Immersion Heaters. Class 21.

305,106. SANI SOFT. Registered Aug. 1, 1933. Northern Paper Mills, Green Bay, Wis., a corporation of Wisconsin. Renewed Aug. 1, 1953. Toilet Paper. Class 37.

305,163. FUTURA. Registered Aug. 8, 1933. West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin. Renewed Aug. 8, 1953. Base Metal Cooking Hollow Ware. Class 13.

305,188. STATIC. Registered Aug. 8, 1933. The Flintkote Corporation. Renewed Aug. 8, 1953, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Bituminous Emulsions and Emulsion Compounds for Use as Protective Coatings. Class 16.

305,207. CHLOREX. Registered Aug. 8, 1933. Carbide and Carbon Chemicals Corporation. Renewed Aug. 8, 1953, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York. Solvents for Use in Oil Refining. Class 6.

305,210. SECO. Registered Aug. 8, 1933. William L. Barrell Co. Inc., New York, N. Y., a corporation of Maine. Renewed Aug. 8, 1953. Water-Proofed Fabrics. Class 42.

305,381. EDISON. Registered Aug. 15, 1933. Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey. Renewed Aug. 15, 1953. Electric Motors. Class 21.

305,473. PEDICREME. Registered Aug. 15, 1933. The Scholl Mfg. Co., Inc., New York, N. Y., and Chicago, Ill. Renewed Aug. 15, 1953, to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York. Analgesic Cream Suitable for Use as a Relief for Sore or Tender Feet, Etc. Class 18.

305,540. SHRUNKETIZED. Registered Aug. 22, 1933. N. Fluegelman & Co., Inc., New York, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Dresses, Underwear, Waists, Pajamas, for Women and Children; Dress, Negligee, and Work Shirts, Etc. Class 39.

305,601. SKIN-SUCCESS. Registered Aug. 22, 1933. E. T. Browne Drug Company Inc., New York, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Ointment and Whitening Cream. Class 51.

305,635. PALMER'S. Registered Aug. 22, 1933. E. T. Browne Drug Company Inc., New York, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Ointment for Eczemic Eruptions, Acne, Salt Rheum, Tetter, Etc. Class 18.

305,648. "WHITE DOE" AND DESIGN. Registered Aug. 22, 1933. Virginia Dare Extract Company, Inc., Brooklyn, N. Y., a corporation of New York. Renewed Aug. 22, 1953. Wines. Class 47.

305,703. PARK PLAZA. Registered Aug. 22, 1933. International Shoe Company, St. Louis, Mo., a corporation of Delaware. Renewed Aug. 22, 1953. Boots and Shoes of Leather, Fabric and/or Combinations Thereof. Class 39.

305,736. IN-CO ART PRODUCTS. Registered Aug. 22, 1933. Inter-Collegiate Press. Renewed Aug. 22, 1953, to Inter-Collegiate Press, Inc., Kansas City, Mo., a corporation of Missouri. Unfinished, Printed, Engraved, and Lithographed Greeting Cards; Enclosure Cards and Printed Invitations. Class 38.

305,748. RUMBA. Registered Aug. 22, 1933. Vanity Fair Silk Mills. Renewed Aug. 22, 1953, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania. Knitted and Textile Underwear and Hosiery for Women and Children—Namely, Vests, Bloomers, Knickerbockers, Etc. Class 39.

305,802. DIPLOMA. Registered Aug. 22, 1933. Vanity Fair Silk Mills. Renewed Aug. 22, 1953, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania. Hosiery and Knitted and Textile Underwear for Women and Children, i. e., Vests, Bloomers, Panties, Etc. Class 39.

305,803. RENDEZVOUS. Registered Aug. 22, 1933. Stine & Goldman, Philadelphia, Pa. Renewed Aug. 22, 1953, to Myer Goldman, Wilmington, Del., a firm. Men's, Women's, and Children's Leather, Fabric, and Rubber Shoes. Class 39.

305,819. "SUPERMIX" ETC. AND DESIGN. Registered Aug. 22, 1933. Hall Hardware Company. Renewed Aug. 22, 1953, to Our Own Hardware Company, Minneapolis, Minn., a corporation of Minnesota. Dry, Paste, and Ready-Mixed Paints and Varnishes. Class 16.

305,870. REPRESENTATION OF DAMSEL ETC. Registered Aug. 29, 1933. Miller High Life Company. Renewed Aug. 29, 1953, to Miller Brewing Company, Milwaukee, Wis., a corporation of Wisconsin. Beer. Class 48.

305,874. "COLGATE'S TANDCREME" ETC. AND REPRESENTATION OF CARTON LINED FOR RED AND BLACK. Registered Aug. 29, 1933. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Aug. 29, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Dental Cream. Class 51.

305,882. "WILLIAM PENN" ETC. AND DESIGN. Registered Aug. 29, 1933. Consolidated Distilleries, Limited, Montreal, Quebec, Canada. Renewed Aug. 29, 1953, to Gooderham & Worts Limited, Detroit, Mich., a corporation of Delaware. Whisky and Other Potable Distilled Liquors. Class 49.

305,991. SKY RIDE. Registered Aug. 29, 1933. Paul F. Beich Company, Bloomington, Ill., a corporation of Illinois. Renewed Aug. 29, 1953. Candy. Class 46.

306,116. JIFFY-HOE. Registered Sept. 5, 1933. S. L. Allen & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 5, 1953. Garden Cultivators. Class 23.

306,207. ANTHRALAN. Registered Sept. 12, 1933. General Dyestuff Corporation, New York, N. Y., a corporation of New York. Renewed Sept. 12, 1953. Dyestuffs. Class 6.

306,254. TATTOO. Registered Sept. 12, 1933. James L. Younghusband, Chicago, Ill. Renewed Sept. 12, 1953, to Tattoo, Inc., New York, N. Y., a corporation of Delaware. Lipsticks. Class 51.

306,281. THE YOUNG COLONY SHOP. Registered Sept. 12, 1933. B. Altman & Co., New York, N. Y., a corporation of New York. Renewed Sept. 12, 1953. Dresses, Coats, and Suits for Females. Class 39.

306,416. "SANI-LITE" AND DESIGN. Registered Sept. 19, 1933. The Southwestern Broom Mfg. Co. Renewed Sept. 19, 1953, to The Southwestern Broom Mfg. Co., Inc., Evansville, Ind., a corporation of Indiana. Brooms. Class 29.

306,574. "TARGET" ETC. AND DESIGN LINED FOR YELLOW, RED AND BLUE. Registered Sept. 26, 1933. Brown & Williamson Tobacco Corporation, Louisville, Ky., a corporation of Delaware. Renewed Sept. 26, 1953. Cigarette Tobacco. Class 17.

306,594. "PALMOLIVE" AND DESIGN LINED FOR YELLOW, GREEN AND BLACK. Registered Sept. 26, 1933. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Sept. 26, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Shaving Cream. Class 51.

306,610. "MIRAGLO" AND DESIGN. Registered Sept. 26, 1933. Mountain Varnish & Color Works, Inc., doing business as M. V. C. Lab. Renewed Sept. 26, 1953, to M. V. C. Laboratories, Inc., Toledo, Ohio, a corporation of Ohio. Manicure Preparations—Namely, Nail Polish, Polish Remover, Cuticle Remover, and Cuticle Oil. Class 51.

306,690. "PETER PAN" AND DESIGN. Registered Sept. 26, 1933. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Sept. 26, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soap. Class 52.

306,703. "RADIO CITY" AND DESIGN. Registered Sept. 26, 1933. Levin & Harris Shirt Co, Inc. Renewed Sept. 26, 1953, to Harris-Smith, Inc., New York, N. Y., a corporation of New York. Men's and Boys' Dress Shirts and Men's and Boys' Pajamas. Class 39.

306,750. FLEISCHMANN'S. Registered Sept. 26, 1933. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Sept. 26, 1953. Mixture of Egg Material and Other Substances Suitable for Use as an Ingredient in Making Cakes and Other Food Products. Class 46.

306,754. POUL-TRATE. Registered Sept. 26, 1933. Health Products Corporation, Newark, N. J. Renewed Sept. 26, 1953, to White Laboratories, Inc., Kenilworth, N. J., a corporation of New Jersey. Cod Liver Oil Concentrate. Class 18.

306,812. 40 BELOW. Registered Sept. 26, 1933. Dupont Pharmacy, Inc., assignor to David Nathanson. Renewed Sept. 26, 1953, to 40 Below Beverage Company, Washington, D. C., a firm. Maltless, Non-Alcoholic Beverages Sold as Soft Drinks and Syrups for Making the Same. Class 45.

# TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

420,407. "FLEXITE" AND DESIGN. Registered Apr. 9, 1940. J. L. Haber & Company, New York, N. Y. Thermoplastic Film, Etc. Class 1. Canceled May 22, 1953. Canc. No. 5954.

518,866. TRACT-R-LIFT. Registered Dec. 13, 1949. Tract-R-Lift Corporation, Chicago, Ill. Fork Lift Type Gasoline Powered Truck. Class 23. Canceled June 5, 1953. Canc. No. 6036.

523,644. SAFEWAY. Registered Apr. 4, 1950. Meat Industry Suppliers, Inc., Chicago, Ill. Chemical Composition for Use in Curing Meats Etc. Class 46. Canceled June 5, 1953. Canc. No. 5754.

538,382. DAIRY-MIX. Registered Feb. 20, 1951. John M. Corbett, doing business as Dairy Products Group, Boston, Mass. Food Products—Namely, a Butter Extender Etc. Class 46. Canceled May 22, 1953. Canc. No. 5755.

552,911. SCROLL-ETTS. Registered Jan. 1, 1952. Stephen G. Shack, Pittsburgh, Pa. Cast Metal Scrolls Used for Decorations. Class 13. Canceled May 22, 1953. Canc. No. 5904.

567,004. YACUMATIC. Registered Nov. 18, 1952. Dazey Corporation, St. Louis, Mo. Can Openers. Class 23. Canceled May 22, 1953. Canceled through Intf. 4944.

# TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

59,681. THE HANCOCK. Registered Jan. 15, 1907. The United Injector Co., New York, N. Y. Valves, Strainers and Cocks. Class 13. The drawing is amended to appear as follows:

HANCOCK

385,002. "STUARTS GOLDEN NEEDLE CLOTHES" AND DESIGN. Registered Feb. 11, 1941. Moe Levy & Son, Inc., New York, N. Y. Men's Suits, Overcoats, Etc. Class 39. Amended as follows: In the statement, column 1, the description of goods with the exception of "sport slacks, shirts, ties, underwear," is deleted; column 2, the disclaimer is deleted; and the drawing is amended to appear as follows:

GOLDEN NEEDLE

572,908. "ELDORADO". Registered Apr. 7, 1953. Eldorado Tool and Manufacturing Corp., Wilford, Conn. Metal Working Tools—Namely, Gun Drills, Etc. Class 23. Corrected as follows: In the certificate, line 3: In the heading to the statement; and in lines 3 and 5 of the statement, "Wilford" should be *Milford*.

# TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

**New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.**

50,291. "RED CROSS BRAND" AND DESIGN. Registered Mar. 6, 1906. Renewed Mar. 6, 1926. Re-renewed Mar. 6, 1946. Stephen J. Seneca, Havre de Grace, Md. Canned Vegetables and Fruits. Class 46. New certificate under section 7(c) issued July 7, 1953, to Chas. B. Silver & Son, a partnership composed of G. Bartol Silver and Elizabeth S. Cole, Havre de Grace, Md.

# TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

## CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Reg. No. 303,444. Registered May 23, 1933. Eagle-Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich., a corporation of Illinois. Republished by registrant, present address Grand Haven, Mich.

IROQUOIS

For Leather.
Claims use since Sept. 1, 1930.

Reg. No. 303,447. Registered May 23, 1933. Eagle-Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich., a corporation of Illinois. Republished by registrant, present address Grand Haven, Mich.

DOWN CUSHION

For Leather.
Claims use since June 1930.

Reg. No. 354,078. Registered Feb. 1, 1938. Eagle-Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich., a corporation of Illinois. Republished by registrant, present address Grand Haven, Mich.




The word "Ottawa" is disclaimed apart from the mark as shown.
For Leather.
Claims use since Feb. 1, 1937.

Reg. No. 354,079. Registered Feb. 1, 1938. Eagle-Ottawa Leather Company, Chicago, Ill., and Grand Haven, Mich., a corporation of Illinois. Republished by registrant, present address Grand Haven, Mich.

Guild Hall

The word "Ottawa" is disclaimed apart from the mark as shown.
For Leather.
Claims use since Feb. 1, 1937.

Reg. No. 438,039. Registered May 18, 1948. Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Republished by registrant.

**SPEY ROYAL GRAIN**

The word "Grain" is disclaimed apart from the mark as shown.
For Leather.
Claims use since January 1935.

Reg. No. 438,940. Registered May 18, 1948. Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Republished by registrant.

**EAGLE ELK**

The word "Elk" is disclaimed apart from the mark as shown.
For Leather.
Claims use since 1870.

Reg. No. 438,941. Registered May 18, 1948. Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Republished by registrant.

**YEOMAN GRAIN**

The word "Grain" is disclaimed apart from the mark as shown.
For Leather.
Claims use since January 1937.

Reg. No. 438,942. Registered May 18, 1948. Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Republished by registrant.

**BOULEVARD GRAIN**

The word "Grain" is disclaimed apart from the mark as shown.
For Leather.
Claims use since January 1937.

Reg. No. 439,115. Registered June 1, 1948. Eagle-Ottawa Leather Company, Grand Haven, Mich., a corporation of Illinois. Republished by registrant.

**TUFTOE**

For Leather.
Claims use since June 1938.

## CLASS 2

### RECEPTACLES

Reg. No. 396,303. Registered July 7, 1942. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

**SUNBURST**

For Compacts Not Made of Precious Metal and Containing a Powder Puff.
Claims use since Dec. 2, 1940.

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 394,838. Registered Apr. 28, 1942. Elizabeth Arden Sales Corporation, New York, N. Y. Republished by registrant.

**HEAVENLY TWIN**

For Traveling Bags.
Claims use since Jan. 2, 1941.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 92,147. Registered June 17, 1913. G. W. Todd & Company, Rochester, N. Y. Republished by The Todd Company, Inc., Rochester, N. Y., a corporation of New York.

**PROTECTOGRAPH**

For Machines, Known as Check-Protectors, for Printing Limiting Amounts on Bank Checks, Drafts, or Other Negotiable Instruments.
Claims use since Apr. 18, 1900.



Reg. No. 301,996. Registered Mar. 21, 1933. Union Special Machine Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

**155**

For Sewing Machine Needles.
Claims use since on or about Jan. 1, 1919.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Reg. No. 150,142. Registered Dec. 27, 1921. Tonk Manufacturing Co., Chicago, Ill. Republished by Tonk Manufacturing Co., Chicago, Ill., a corporation of Delaware.

Tonkbench

For Piano-Benches.
Claims use since June 2, 1920.

## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Reg. No. 185,807. Registered June 24, 1924. Florence N. Lewis, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

**ELIZABETH ARDEN**

For Educational Appliances Sold as Units or Sets and Comprising Illustrated Charts and Instructions Printed Thereon and Supplemented by Instructions Recorded Upon Sound Reproducing Devices.
Claims use since Apr. 1, 1923.

## CLASS 38

### PRINTS AND PUBLICATIONS

Reg. No. 304,292. Registered June 27, 1933. Union Special Machine Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

The
**NEEDLE'S EYE**

For Magazine.
Claims use since on or about Apr. 26, 1930.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 300,906. Registered Feb. 14, 1933. The Ransom & Randolph Company, Toledo, Ohio, a corporation of Ohio. Republished by registrant.

R&R

For Dental Burs, Impression Compounds, Scaling Instruments, Plaster Compounds for Dental Molds, Hypodermic Needles, Medicated Cement for Dental Use, Denture Materials, Dental Gold, Dental Alloys, and the Like, Dental Varnishes and Wazes.
Claims use since Sept. 15, 1931.

## CLASS 51

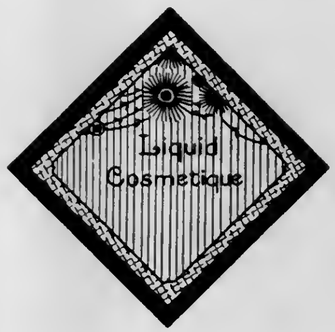
### COSMETICS AND TOILET PREPARATIONS

Reg. No. 123,441. Registered Nov. 12, 1918. Florence N. Lewis, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

**ELECTRA**

For Depilatory.
Claims use since the year 1910.

Reg. No. 200,848. Registered July 14, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



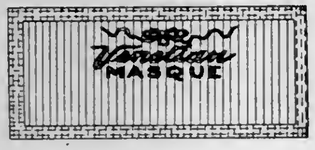

The words "Liquid Cosmetique" are disclaimed apart from the mark as shown. The drawing is lined for pink and gold.
For Eyelash Lotion.
Claims use since May 1, 1923.

Reg. No. 205,537. Registered Nov. 10, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The words "Venetian" and "Skin Tonic" are disclaimed apart from the mark as shown. The drawing is lined for pink and yellow.
For Astriogent.
Claims use since July 1920.

Reg. No. 205,788. Registered Nov. 17, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



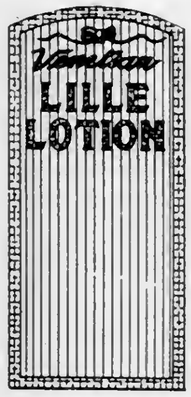

The word "Venetian" is disclaimed apart from the mark as shown. The drawing is lined for pink and yellow.
For Skin-Cleansing Cream.
Claims use since July 1920.

Reg. No. 205,859. Registered Nov. 17, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The words "Venetian" and "Special Eye Lotion" are disclaimed apart from the mark as shown. The drawing is lined for pink and yellow.
For Eye Lotion.
Claims use since July 1920.

Reg. No. 205,860. Registered Nov. 17, 1925. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The words "Venetian" and "Lotion" are disclaimed apart from the mark as shown. The drawing is lined for pink and yellow.
For Skin Lotion.
Claims use since July 1920.

Reg. No. 210,274. Registered Mar. 9, 1926. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The words "Venetian," "Odeursans," and "Deodorant" are disclaimed apart from the mark as shown. The drawing is lined for pink and gold.
For Deodorants.
Claims use since January 1922.

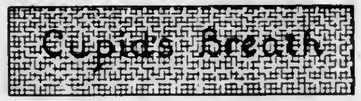
Reg. No. 211,192. Registered Apr. 6, 1926. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

ARDENETTE

For Cosmetics—Namely, Face Creams, Massage Creams, and Hair Pomades, Face Powder, Rouge, and Talcum Powder.
Claims use since January 1922.



Reg. No. 244,645. Registered July 24, 1928. Florence N. Lewis, doing business as Elizabeth Arden, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The drawing is lined for yellow.
For Perfumes and Toilet Waters.
Claims use since Jan. 1, 1916.

Reg. No. 279,960. Registered Feb. 10, 1931. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

Ardena

For Cosmetic Creams for the Skin, Lotions for Application to the Skin, Sunburn Ointment, and Hair Tonic.
Claims use since July 1920.

Reg. No. 292,825. Registered Mar. 29, 1932. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



For Lipsticks.
Claims use since Oct. 11, 1931.

Reg. No. 300,579. Registered Jan. 24, 1933. Ferd Mülhens, Inc., New York, N. Y. Republished by "4711" Limited, New York, N. Y., a corporation of New York.

BLAUGOLD-KÖLNISCH WASSER

The words "Kolnisch Wasser" are disclaimed apart from the mark as shown.
For Eau de Cologne.
Claims use since September 1930.

Reg. No. 308,049. Registered Nov. 21, 1933. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

Ardena
Sunpruf

The word "Sunpruf" is disclaimed apart from the mark as shown.
For Lotion for the Protection of the Skin Against Sunburn.
Claims use since May 27, 1933.

Reg. No. 373,058. Registered Nov. 21, 1939. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

BEAUTY PRIMER

The word "Beauty" is disclaimed apart from the mark as shown.
For Set of Toilet Preparations, Consisting of Hand and Skin Lotion, Toilet Creams, Face Powder, and Nail Polish.
Claims use since July 11, 1939.

Reg. No. 377,652. Registered May 7, 1940. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

TELECAST

For Lipsticks, Rouges, and Nail Polishes, and Toilet Cream.
Claims use since Jan. 13, 1940.

Reg. No. 381,966. Registered Oct. 15, 1940. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

CANDY CANE

For Lipsticks, Rouge, Nail Polish, and Face Powder and Rouge Compacts.
Claims use since Apr. 10, 1940.

Reg. No. 382,899. Registered Nov. 12, 1940. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

Schoolhouse Red

The word "Red" is disclaimed apart from the mark as shown.
For Lipstick, Rouge, and Nail Polish.
Claims use since July 25, 1940.

Reg. No. 388,616. Registered July 1, 1941. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

LIQUID BRONZE GLO—

The words "Liquid Bronze" are disclaimed apart from the mark as shown.
For Skin Lotions.
Claims use since Nov. 13, 1939.

Reg. No. 390,188. Registered Sept. 9, 1941. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

SANSCENT CRAYON

The word "Crayon" is disclaimed apart from the mark as shown.
For Deodorant Stick.
Claims use since Mar. 1, 1940.

Reg. No. 391,307. Registered Oct. 28, 1941. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

THOUSAND FLOWERS

For Perfumes and Toilet Waters.
Claims use since May 1, 1940.

Reg. No. 398,415. Registered Oct. 27, 1942. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

PINK SHELL

The word "Pink" is disclaimed apart from the mark as shown.
For Nail Polish, Cream and Compact Rouges, and Lipstick.
Claims use since Jan. 13, 1941.

Reg. No. 398,775. Registered Nov. 24, 1942. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

BLITHE SPIRIT

For Lipstick, Foundation Cream, Foundation Lotion, Rouge, and Nail Polish.
Claims use since Nov. 17, 1941.

Reg. No. 399,170. Registered Dec. 22, 1942. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

ARDENA
FEATHER-LIGHT FOUNDATION CREAM

The words "Light" and "Foundation Cream" are disclaimed apart from the mark as shown.
For Face Cream.
Claims use since Feb. 28, 1940.

Reg. No. 406,968. Registered May 9, 1944. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

MONTEZUMA RED

The word "Red" is disclaimed apart from the mark as shown.
For Nail Polish, Lipsticks, and Rouges.
Claims use since Nov. 25, 1943.

Reg. No. 412,620. Registered Mar. 20, 1945. Elizabeth Arden, Inc., New York, N. Y., assignor to Elizabeth Arden Sales Corporation. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

VICTORY RED

The word "Red" is disclaimed apart from the mark as shown.
For Lipsticks, Rouge, Eye Shadow, and Nail Polish.
Claims use since July 3, 1941.

Reg. No. 414,151. Registered May 29, 1945. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

WINGED VICTORY

For Cream and Compact Rouges, Lipstick, Face and Dusting Powders, Nail Polish, Perfume, Cologne, and Toilet Water.
Claims use since Mar. 1, 1944.

Reg. No. 414,745. Registered June 26, 1945. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

Flower Mist

For Perfumes, Eau de Cologne, Toilet Water, After Shaving Lotion, Face and Bath Powder, Rouge, and Lipstick.
Claims use since July 5, 1938.

Reg. No. 419,174. Registered Feb. 5, 1946. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

VELVA LEG FILM

The words "Leg Film" are disclaimed apart from the mark as shown.
For Lotion for the Legs.
Claims use since Oct. 5, 1943.

Reg. No. 419,175. Registered Feb. 5, 1946. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

VELVATEX CREAM

The word "Cream" is disclaimed apart from the mark as shown.
For Face and Body Creams.
Claims use since May 11, 1937.

Reg. No. 419,213. Registered Feb. 5, 1946. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

CARNIVAL

For Lipsticks, Lip Pencils, Rouge, Nail Polish, Perfume, Toilet Water, Face, Dusting, and Talcum Powders, and Face and Body Creams and Lotions.
Claims use since Aug. 8, 1916.



Reg. No. 419,768. Registered Mar. 5, 1946. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

Love Letter Sachets

The word "Sachets" is disclaimed apart from the mark as shown.
For Perfumed Powder for Making Sachet Bags.
Claims use since Apr. 9, 1940.

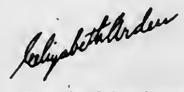
Reg. No. 420,020. Registered Mar. 19, 1946. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

DRAMA

For Rouge, Lipstick, and Nail Polish.
Claims use since July 2, 1945.

Reg. No. 426,913. Registered Jan. 21, 1947. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.



The word "Sachet" is disclaimed apart from the mark as shown.
For Sachet Powders.
Claims use since Apr. 9, 1940.

672 O. G.—5

Reg. No. 437,528. Registered Mar. 30, 1948. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

LA JOIE DE VIVRE

ELIZABETH ARDEN

The words "Elizabeth Arden" are disclaimed apart from the mark as shown.
For Lipsticks, Lip Pencils, Rouge, Nail Polish, Toilet Water, Face, Dusting, and Talcum Powders, and Face and Body Creams and Lotions.
Claims use since Aug. 8, 1924.

Reg. No. 439,038. Registered June 1, 1948. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

PINK MIST

The word "Pink" is disclaimed apart from the mark as shown.
For Nail Polish.
Claims use since Oct. 8, 1946.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 393,688. Registered Feb. 24, 1942. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

MILLE FLEURS

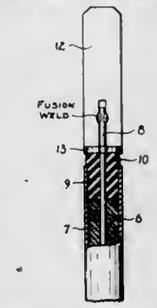
For Soaps.
Claims use since June 24, 1940.

# REISSUES

JULY 7, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

**23,679**
**ELECTRIC TUBULAR HEATER TERMINAL SEAL**
**Allan P. Charbonneau and Edwin W. Seeger, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware**
**Original No. 2,489,998, dated November 29, 1949, Serial No. 1,146, January 8, 1948. Application for reissue August 24, 1950, Serial No. 181,191**
**7 Claims. (Cl. 201—67)**

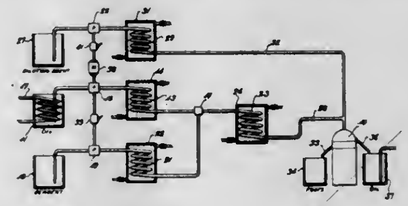



*5. The method of sealing the terminal end of an electric heater wherein a resistor enclosed in an open end tubular sheath is embedded in insulation at a distance from the end of the sheath to leave the sheath with an open end recess, and wherein the resistor has a terminal portion projecting through such recess to a point beyond the sheath comprising the steps of inserting a perforated heat resistant plug of elastic character into the open end recess of said heater, compressing said plug inwardly of said recess to cause lateral expansion of said plug for engagement with the inner wall of said sheath and with the terminal portion of said resistor, and locking a member to said terminal portion of said resistor to retain said plug in compressed condition.*

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**23,680**
**PURIFICATION OF GLYCERIDE OILS**
**Benjamin Clayton, Pasadena, Calif., assignor, by mesne assignments, to Benjamin Clayton, doing business as Refining, Unincorporated**
**Original No. 2,412,251, dated December 10, 1946, Serial No. 483,953, April 21, 1943. Application for reissue October 7, 1952, Serial No. 313,620**
**23 Claims. (Cl. 260—425)**

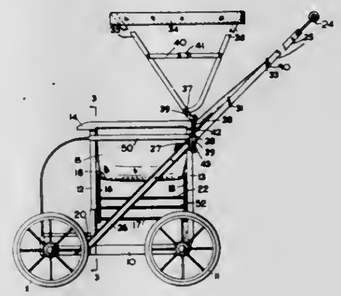
*22. The process of purifying vegetable and animal oils, low in gum content and containing impurities, including free fatty acids, which comprises, mixing therewith an alkaline refining reagent capable of reacting with said impurities to precipitate the same and produce soap, said reagent being added in sufficiently high concentration to produce a stratified mixture including an oil phase, soap phase, and an aqueous phase when the mixture is subjected to centrifugal separation, thus interfering with said separation, reducing concentration by adding an aqueous diluent to said mixture in sufficient quantity to overcome such stratification, said quantity of aqueous diluent reducing the concentration of the excess of*



*alkaline reagent to at least 8° Baumé, whereby to permit said soap to be discharged with said aqueous layer, and centrifugally separating the thus conditioned mixture.*

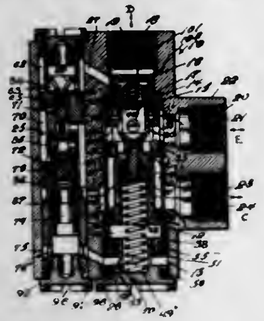
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**23,681**
**FOLDING BABY CARRIAGE**
**Harold Edward Cornish, Banktown, New South Wales, Australia**
**Original No. 2,545,069, dated March 13, 1951, Serial No. 699,220, September 25, 1946. Application for reissue March 7, 1952, Serial No. 275,390.**
**In Great Britain October 18, 1945**
**7 Claims. (Cl. 280—42)**



*3. A folding wheeled child's carriage comprising in combination a pair of rigid skeleton side frames, a collapsible seat carried by the frames, transverse strut means connecting the side frames to limit the relative outward unfolding movements thereof and foldable to permit relative inward folding movements thereof, longitudinal diagonal guide members secured to the side frames, a spring arm slidable in each of said guide members and a handle permanently connecting the ends of the spring arms, said arms inwardly of the handle being spaced apart a distance substantially equal to the combined width of the side frames when the carriage is folded.*

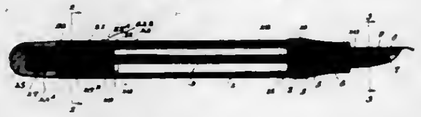
**23,682**
**UNLOADING VALVE**
**Robert Stevenson, East Greenwich, R. I., assignor to Merit Engineering, Inc., a corporation of Rhode Island**
**Original No. 2,545,712, dated March 20, 1951, Serial No. 542,411, June 27, 1944. Application for reissue March 18, 1953, Serial No. 343,273**
**11 Claims. (Cl. 137—108)**



1. In an unloading valve having a body provided with a supply port, a discharge port and a return port communicating with the supply port, a main valve normally seated to close communication between said supply port and return port and subjected on one side thereof to the pressure at the supply port tending to unseat said valve and on the other side to the pressure at the discharge port tending to seat said valve, a check valve between the supply and discharge ports for blocking the return of fluid from said discharge port so proportioned with reference to the main valve as to area and spring pressure as to be unseated when said main valve is seated and seated when said main valve is unseated, a normally unseated second valve for controlling the said fluid pressure from said discharge port which acts on said main valve, said second valve being subjected on one side to the pressure at the discharge port tending to seat said second valve to cut off said pressure from said discharge port which acts on said main valve, a vent conduit in said body communicating with said return port for draining upon the seating of said second valve the said pressure from said discharge port which acts on said main valve for creating a differential pressure condition across said main valve to unseat the same in response to the said pressure from the supply port which acts thereon, a third valve for controlling said vent conduit arranged to be normally seated and subjected on one side to the pressure at the discharge port tending to move the same to closed position and engaged on the other side by said second valve to be unseated thereby upon seating of said second valve and a spring supplementing the said fluid pressure acting on said third valve to oppose closing of said second valve and adjustable means to predetermine the fluid pressure range at which said second valve will be seated or unseated.

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**23,683**
**FOUNTAIN PEN**
**Mario Segre, Quito, Ecuador, assignor to W. A. Sheaffer Pen Company, Fort Madison, Wis., a corporation of Delaware**
**Original No. 2,603,189, dated July 15, 1952, Serial No. 745,997, May 5, 1947. Application for reissue October 31, 1952, Serial No. 318,152**
**11 Claims. (Cl. 120—47)**



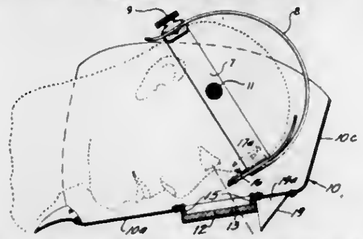
*11. A fountain pen comprising a pen nib, a nib support adjacent said nib, said support having means defining a longitudinal bore therethrough spaced from said nib, a fluid reservoir positioned rearwardly of said support, a filler-needle having a forward end mounted in said bore and having a rearward end mounted on said reservoir, the forward end of said filler-needle being extensible through said bore to a position forwardly of said nib and retractable to a position rearwardly of the forward end of said nib, said filler-needle including means defining feed and vent channels extending longitudinally from the forward end thereof into communication with said reservoir and having means defining an opening in a forward end thereof in communication with said feed channel, said nib support including means defining an ink feed passageway communicating between said nib and said opening when said filler-needle is retracted to the rearward position, and said channels providing the sole means for filling and venting said reservoir and for feeding ink from said reservoir to said nib when said pen is in use.*

# PATENTS

## GRANTED JULY 7, 1953

## GENERAL AND MECHANICAL

**2,644,159**
**FACE AND EYE PROTECTIVE SHIELD FOR WELDERS**
**Joseph H. Jacobs, Minneapolis, Minn., assignor to Jacobs Wind Electric Company, Minneapolis, Minn., a corporation of Montana**
**Application September 17, 1951, Serial No. 246,927**
**4 Claims. (Cl. 2—8)**

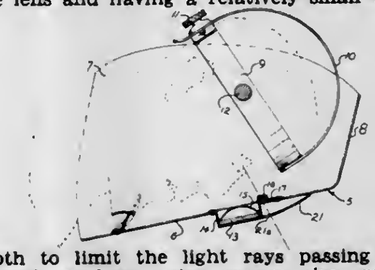


1. A protector for welders comprising a protective shield made from opaque material and having a front portion for protecting the face of a welder, means for pivotally mounting said shield on the head of a wearer with the front portion of the shield disposed in forwardly spaced relation to the wearer's face when said shield is disposed in downwardly swung operative position, said front shield portion having a viewing opening formed therein, a double lens structure mounted in said opening and completely closing the same, one portion of said lens being constructed to restrict the passage of light rays therethrough to permit viewing of a high intensity light source such as a welding arc and forming the lower section of said double lens structure, the upper section of said double lens structure being transparent to permit viewing of the work under normal lighting conditions, and a visor positioned in rearwardly opposed relation to the transparent lens portion with the lower edge of the visor disposed directly inwardly from the lower edge of said transparent lens portion when in operative position and spaced between the upper portion of the wearer's head and said transparent section whereby the welder may tilt his head downwardly to direct his line of sight below the lower edge of said visor and through the transparent section and, by merely tilting his head upwardly, interposed the light restrictive lens between his eyes and the light source to be produced.

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**2,644,160**
**WELDING SHIELD WITH OFFSET LENSES**
**Joseph H. Jacobs, Minneapolis, Minn., assignor to Jacobs Wind Electric Company, Minneapolis, Minn., a corporation of Montana**
**Application December 10, 1951, Serial No. 260,914**
**3 Claims. (Cl. 2—8)**

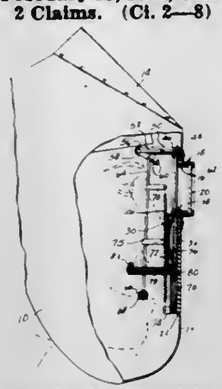
1. Face and eye protective apparatus for welders comprising an inwardly concave, outwardly convex opaque shield adapted to receive and enclose the front portion of a welder's head and face and having an opening in the upper front portion thereof aligned with the welder's eyes when in operative position, a pair of lens members mounted in said opening and closing the same, one of said lenses being highly restrictive to the passage of light therethrough and permitting a welder to view a high intensity welding arc when directing his line of sight therethrough and being disposed in a plane normal to the line of sight therethrough to prevent distortion of the transmitted light rays, said restrictive lens having a relatively large vertical depth, the other lens being transparent to permit viewing therethrough under normal lighting conditions and being disposed above the light restrictive lens and lying in a plane disposed in rearwardly spaced, substantially parallel relation to the plane of the restrictive lens and having a relatively small vertical



depth to limit the light rays passing therethrough, and an outer opaque visor mounted across the upper portion of the front of the shield above the upper transparent lens thereof and having the lower edge of the visor disposed in upwardly spaced relation above the top edge of the lower light restrictive lens a distance substantially equal to the vertical depth of the rearwardly disposed transparent lens to provide a pair of spaced aligned viewing openings of relatively small vertical depth to prevent obliquely directed rays from passing therethrough when the wearer is viewing the high intensity welding arc through the restrictive lens.

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**2,644,161**
**WELDER'S HELMET**
**Leslie A. Meyer, Mill Creek, Ind.**
**Application February 15, 1952, Serial No. 271,685**
**2 Claims. (Cl. 2—8)**

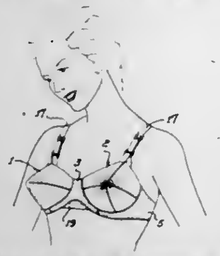


1. A welder's helmet comprising: a shield including a front wall adapted to protect the face of a user and formed with a fixed view window; parallel, vertical guide channels mounted on the inner surface of said front wall at opposite sides

of the view window; a dark window having its opposite side edges slidable in said guide channels for up-and-down sliding movement of the dark window into and out of registry with the view window; a vertically shiftable linkage connected at one end to said dark window and having its other end proportioned to be received in the mouth of a user, said linkage being arranged for vertical movement, responsive to a closing of the mouth, to a position effective to shift said dark window into registry with the view window, said linkage including a hanger connected to the dark window, a crankshaft rotatably mounted on the shield, a crank on said shaft operatively connected to the hanger for shifting of the hanger responsive to rotation of the shaft, a crank arm on the shaft, an upstanding push rod connected at its upper end to the crank arm for translating up-and-down movement of the push rod into rotatable movement of the shaft, and a mouthpiece on the lower end of the rod adapted to extend into the user's mouth to seat against the lower jaw thereof; and a spring anchored at one end to the shield and having its other end connected to said linkage, said spring being arranged to normally urge the dark window to a position out of registry with the view window.

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**2,644,162**
**BRASSIÈRE HAVING ELASTIC CUPS**
**Theo B. Schaumer, Los Angeles, Calif.**
**Application May 16, 1949, Serial No. 93,522**
**1 Claim. (Cl. 2—42)**



In a brassière: a pair of breast cups; a pair of side members made from fabric that is elastic in a direction around the body of the wearer and inelastic transversely of said direction; each side member being joined to the base of a respective cup; and a central portion extending between the cups and joining the side members; each of said cups being made from a plurality of fabric sectors; each sector having a substantially triangular shape, the apices of the sectors converging to form the apex of the cup; the bases of the sectors together defining the base of the cup; each of the sectors being elastic only in a direction substantially parallel to the base of each sector; the sides of the sectors being joined together by seams that prevent stretching in a direction from the base to the apex of each sector; and each sector having at least one additional line of inelastic stitching extending from the base to the apex of the sector.

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**2,644,163**
**NECKTIE DIMPLER**
**Louis D. Guaschino, Hartford, Conn.**
**Application October 22, 1951, Serial No. 252,495**
**5 Claims. (Cl. 2—153)**

3. A necktie forming device by which to form a dimple in the portion of a four-in-hand necktie projecting from a knot therein, said device consisting of a form-retaining main portion bent lengthwise centrally to form a substantially right angle to receive the portion of the tie enclosed within the knot, and tie retaining means extending between the opposite side edges of the main portion adjacent the end of the device remote from the end of the tie to retain within the angle the folded portion of the tie, said main portion being substantially longer than the retaining means and projecting beyond said retaining



means toward the outer end of the tie, said projecting part of the main portion being bent to form a tighter bend than said right angle with the parts of the main portion substantially parallel for tighter engagement with the tie, the main portion being small enough to be entirely enclosed within the knot and to be concealed thereby.

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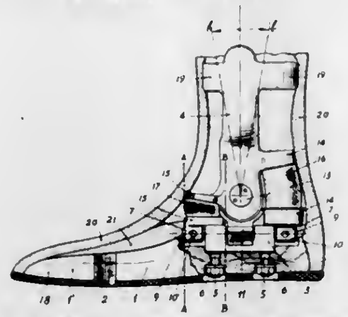
**2,644,164**
**GLOVE CONSTRUCTION**
**Leo Newbower, Gloversville, N. Y., assignor to Edna Higier and Julius Higier, doing business as The Super Glove Company, Johnstown, N. Y.**
**Application February 17, 1950, Serial No. 144,651**
**5 Claims. (Cl. 2—169)**



1. A one-piece glove blank comprising a central panel having four slit finger pieces; an integral side panel formed therewith and having four finger pieces complementary with the finger pieces of said central panel, the index finger piece of said side panel having a depending gusset secured to its bottom half thereof, said side panel being adapted to be folded over said central panel, and a thumb panel integrally secured to said central panel and comprising a complete thumb piece adapted to be folded along a center line, the folded thumb piece being adapted to be folded over the central panel, said thumb piece being provided with a diagonal slit extending downwardly from the line along which the thumb piece is folded over the main panel to a point lying substantially along the same line from which the gusset depends, said side panel, central panel, and thumb panel being folded along lines which are substantially parallel to one another.



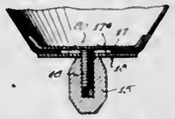
**2,644,165**
**ARTIFICIAL FOOT**
**Angelo Grisoni, Como, Italy**
**Application May 6, 1950, Serial No. 160,440**
**In Italy May 6, 1949**
**6 Claims. (Cl. 3—6)**



2. An artificial foot structure comprising a rigid foot portion, a support for said foot portion, said support being provided with a lower portion and with an upper portion articulated to said lower portion, said lower portion including a first axis extending in longitudinal direction of said foot portion, said upper portion being arranged for swinging movement about a second axis extending perpendicular to said first axis, respective lateral extensions projecting from said lower support portion and from said upper support portion, said lower support portion including bushings connected with said lateral extensions of said lower support portion, and respective elastic cushioning means in contact with said lateral extensions of said upper and lower support portions whereby the extent of swinging movements of said upper support portion about said axes is defined.

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**2,644,166**
**GUIDE FOR FLUSH TANK VALVES**
**Joseph R. Miller, Mesquite, Tex.**
**Application December 21, 1950, Serial No. 202,025**
**1 Claim. (Cl. 4—56)**

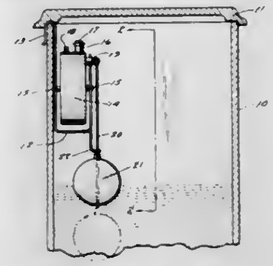


In a hollow flush tank valve, a guide therefor comprising an internal flange within said valve, a threaded stem affixed to and depending from said flange through an opening in the bottom of said valve, a depending weighted body having an annular shoulder and threaded onto the lower end of said stem, an external washer disposed on the annular shoulder of said weighted body, ears struck upwardly from said washer between which the midsection of said flange is disposed for clampingly engaging the portion of said valve immediately surrounding said opening to hold said guide in fixed relationship with said valve.

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**2,644,167**
**DISINFECTANT DISPENSER**
**Harold L. Gordon, Youngstown, Ohio, assignor to Emanuel E. Evans, Poland, Ohio**
**Application October 25, 1949, Serial No. 123,513**
**2 Claims. (Cl. 4—227)**

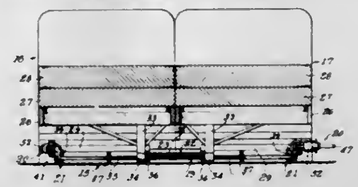
1. A disinfectant dispenser for water closet reservoirs comprising a U-shaped body member, one portion of which is longer than the other and has an outturned hook formed thereon for engagement over the side wall of the said reservoir, a tank revolvably mounted in said U-shaped body member, a restricted outlet on said tank and a filler pipe on said tank and a closure therefor, said filler pipe and restricted outlet located on



the uppermost portion of the said tank, a depending guide member on said U-shaped body member, means for maintaining and for rotating said tank, said means comprising a rod pivotally connected to said tank and slidably engaging said guide member, a float on the said rod and responsive in vertical movement to the fluid level in said reservoir.

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**2,644,168**
**UNITARY BED STRUCTURE**
**Albert A. Sandow, Los Angeles, Calif.**
**Application April 3, 1950, Serial No. 153,581**
**5 Claims. (Cl. 5—8)**



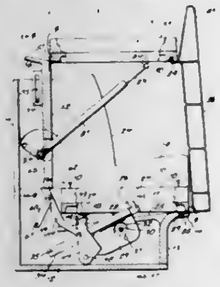
1. A unitary bed structure comprising a base, two beds mounted side by side on said base, means extending across the base and connected to the two beds to move the same relative to the base and to each other, and means to operate the bed-moving means from a position on either bed, said latter means comprising selective ratchet devices on each outer side of the frame and including a pivoted horizontally movable operating handle.

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**2,644,169**
**SOFA BED**
**Robert C. Read, Weston, and Frank J. Gregor, Wilton, Conn.**
**Application August 4, 1947, Serial No. 766,074**
**4 Claims. (Cl. 5—9)**

1. A sofa-bed comprising a seat cushion, a base frame having forwardly inclined portions on which said seat cushion is slidably supported for forward and rearward movement for day-time use, arms pivotally secured to the cushion and extending rearwardly therefrom, said arms being provided with rack teeth on their lower edges, plates pivoted on the base frame and formed with sleeves which slidably receive portions of the arms, a shaft journalled at its terminals on said pivoted plates and being provided with pinions keyed thereto which engage said rack teeth, and brackets pivotally mounted on the base frame

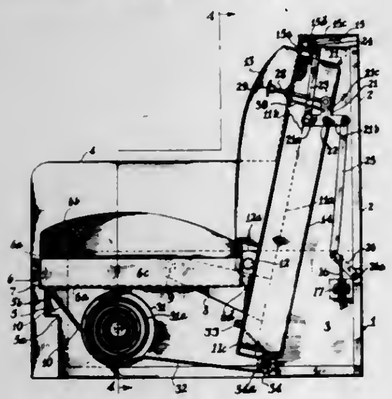
and being normally forwardly inclined, releasable means on the cushion which connect the cushion with the upper ends of the brackets and move them rearwardly to a generally upright position on rearward movement of the cushion to move said cushion into a horizontal position for night-time use, a back cushion, a flat support therefor, a pivotal connection between the support and the cushion at their upper ends, a vertical pin-and-slot connection between the frame and the flat support at its upper end, levers pivotally mounted on the base frame at one end



thereof and pivotally connected with the flat support at the other end, links connecting the brackets with the intermediate sections of the levers so as to move the lower end of the flat support upwardly and rearwardly upon rearward movement of the brackets, a lead screw journalled horizontally in the base frame, a threaded collar carried on the lead screw and being movable thereon as the screw is rotated, and an arm connecting the collar and back cushion to raise and lower the latter as the screw is rotated in the proper direction respectively.

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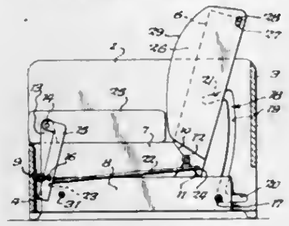
**2,644,170**
**CONVERTIBLE SEAT BED WITH FORWARD-TURNING BACK**
**Stephen A. Kelly, Jr., Manhasset, and William R. Lindsay, Floral Park, N. Y., assignors to Kelcon Corporation, Flushing, N. Y., a corporation of New York**
**Application April 19, 1947, Serial No. 742,556**
**4 Claims. (Cl. 5—43)**



2. In a convertible bed lounge, seat berth or the like including a stationary couch frame having a vertically-disposed back frame member and a front rail member, a combined back and bed member pivoted in end members of said couch frame on fixed pivots disposed at approximately seat height aand positioned and spaced a substantial distance forwardly of the rear edge of said couch frame, said back and bed member being of sufficient width to provide on its front face at one side of said fixed pivots a seat back portion and on its rear face to provide at both sides of said pivotal axis a full-size bed portion, said back and bed member having on its front face at the side of said fixed pivots opposite to said seat-back portion a seat-engaging bracket, a seat member pivotally mounted on said bracket to extend forwardly from said front face of the combined back and bed member into supporting contact in couch-forming position with said front rail member, said combined bed and back member in both forward and reverse movements about said fixed pivots being adapted to move from a rearwardly inclined couch-forming position to a horizontal bed-making position and to stop at an intermediate mechanically-balanced dwell position disposed within vertical planes spaced forwardly from said stationary back frame member with said seat member partially supported in said couch frame and disposed in balanced relationship to said pivoted back and bed member, and manually-releasable fastening means on said stationary couch frame engageable in said rearwardly-inclined couch-forming position of said back and bed member with an edge thereof to normally retain the same in said rearwardly-inclined couch-forming position.

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**2,644,171**
**COMBINED SOFA SEAT AND BED**
**Anton Lorenz, Buffalo, N. Y., and Harry Nock, Elizabeth, N. J.**
**Application April 24, 1951, Serial No. 222,667**
**8 Claims. (Cl. 5—46)**



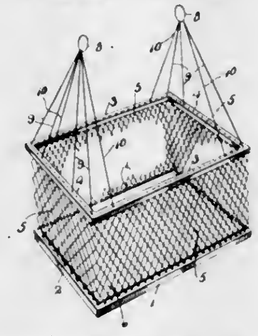
7. A sofa bed comprising a support having spaced, upright end pieces, a mattress-supporting frame of three sections disposed between said end pieces, with two of the sections in horizontal, superposed, face to face relation and the third section upstanding from the rear edge of the upper one of the superposed sections, the superposed sections being hinged together at their forward edges and approximately at their abutting faces, the rear edge of the upper one of the superposed sections being hinged to the lower edge of the upstanding section, for movement into straight out, horizontally aligned positions when said upper one of the superposed sections is swung forwardly about its connection to the lower one of said superposed sections, the ends of said upper one of the superposed sections having adjacent its forward edge, upstanding lugs, a generally upright link pivoted to said support adjacent said end pieces and hinged at a free end to the adjacent one of said lugs, a cam follower on an end of said lower one of the superposed sections, adjacent its rear edge, a cam on the adjacent end piece for guiding said follower, said cam having an upstanding guide portion with generally horizontal extensions at its upper and



lower limits to guide the section with the follower forwardly or rearwardly when at its upper and lower limits, and a prop attached to the upper edge portion of the upstanding section, when the sections are folded, to depend from that section when the sections are unfolded, to engage the floor, and hold that section from descent.

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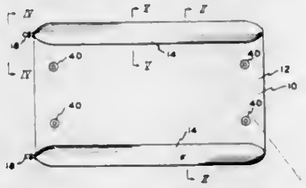
**2,644,172**
**CHILD'S SWINGING BED OR PEN**
**Joseph Arvilla, Charlevoix, Mich.**
**Application July 27, 1949, Serial No. 107,102**
**2 Claims. (Cl. 5—98)**



1. In a structure as described, an upper and a lower rectangular open frame, a bottom comprising a horizontal platform and means for carrying said platform on the lower frame, flexible connections between the upper and lower frames adapted to be extended when the upper frame is moved away from the lower frame and to collapse and fold permitting the lower frame to lie against the upper frame, and suspending means comprising a plurality of elongated flexible elements connected at their lower ends to the ends of the upper frame, and including other suspending elements connected at their lower ends to the sides of the upper frame at a distance from the ends thereof, said suspending elements converging upwardly and having a common connection to a means of suspension above and substantially midway between the sides of said frames.

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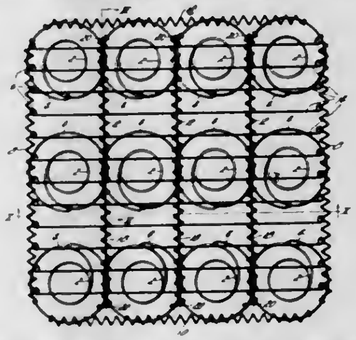
**2,644,173**
**IMPERVIOUS SHEET WITH INFLATABLE SIDES**
**Wallace O. James, Jackson, Mich.**
**Application March 13, 1948, Serial No. 14,785**
**2 Claims. (Cl. 5—331)**



1. An accessory for baby beds comprising a central sheet portion, a plurality of inflatable tubular members secured to and adjacent the edges of said portion, means for inflating and deflating said tubular members, a plurality of grommets positioned in said sheet portion and defining apertures therethrough, a cover portion overlying said sheet portion and said tubular members, and tying tapes attached to said cover portion and removably extending through said grommets, whereby said cover sheet may be removably affixed to a bed while retaining said central sheet in a desired position.

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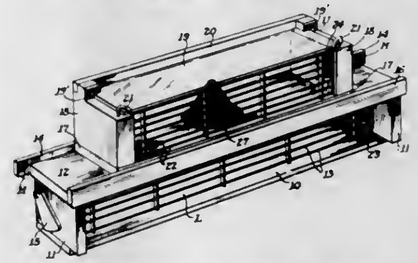
**2,644,174**
**SPRING MATTRESS CONSTRUCTION**
**Eugene Joseph Hood, Carthage, Mo., assignor to Frank B. Williams and Harold E. Williams, both of Carthage, Mo.**
**Application March 24, 1948, Serial No. 16,759**
**5 Claims. (Cl. 5—351)**



4. A spring mattress structure comprising a plurality of axially parallel helical springs arranged in parallel rows, binding means extending around the upper and lower marginal edges of the mattress thus formed and connecting said springs, intermediate binding members at the top and bottom of said mattress extending transversely to said spring rows and connecting the corresponding adjacent springs of each of said rows, elongated supporting members extending in parallel relation across the upper surface of said mattress transversely to said intermediate binding members, means for securing said supporting members against longitudinal movement, and elongated retaining members extending across the mattress transversely to said supporting members, each of said retaining members operating in conjunction with one of said intermediate binding members to secure each of said supporting members against material lateral movement at its point of intersection with said binding member.

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**2,644,175**
**QUEEN AND DRONE TRAP**
**Charles H. Pease, Canaan, Conn.**
**Application February 20, 1951, Serial No. 211,882**
**6 Claims. (Cl. 6—7)**



1. A queen and drone trap comprising, in combination, primary and secondary trap members each constituting a substantially rectangular

walled compartment having one drone-confining worker-permeable wall; means for detachably securing the primary trap member across the entrance of a beehive with free access from said entrance into said trap member; guides for slideably guiding the secondary trap member along the primary trap member to various positions thereon; apertured meeting walls on both trap members; a bee-escape device covering the aperture in the secondary trap member whereby when the secondary member is moved to one position a non-return bee passage is established from the primary to the secondary trap member, and when said secondary member is moved to another position said passage is closed; and interengaging means on both trap members tending to render them inseparable in either of said conditions.

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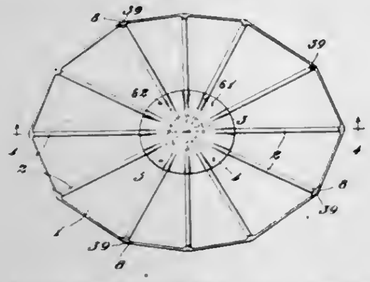
**2,644,176**
**AMPHIBIOUS BOAT TRAILER**
**Carl R. Livermon, Roxobel, N. C.**
**Application January 27, 1949, Serial No. 73,086**
**3 Claims. (Cl. 9—1)**



1. An amphibious boat trailer having a pneumatic tired wheel truck, said truck comprising a transverse support and an axle connected to and resiliently supporting said transverse support, said axle supported at its ends by the pneumatic tired wheels, a frame having spaced apart side beams secured to said transverse support, a float fixedly attached to said transverse support between said side beams and overlying said axle and shaped to conform to the space between said side beams and means for detachably securing a boat to said frame.

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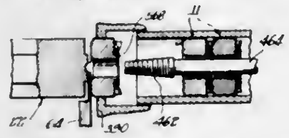
**2,644,177**
**COLLAPSIBLE BOAT**
**Malcolm N. Stanley, Newton, Mass.**
**Application March 20, 1950, Serial No. 150,779**
**5 Claims. (Cl. 9—2)**



1. An elongate collapsible boat comprising a flexible skin and a framework for holding the skin collapsed or expanded, said framework comprising a central mounting member located interiorly of the skin, radiating from said member and pivotally attached thereto a plurality of ribs of different lengths movable between a closed position in which the skin is collapsed and an open position in which said skin is expanded, extending upwardly from the mounting member and attached thereto a shaft having a downwardly directed abutment, a stiff plate separate from the framework for storage in the collapsed boat and adapted to be disposed over said member and ribs for bearing on the ribs intermediate their ends to hold the ribs in open position, said plate having an opening admitting said shaft therethrough, engageable with the shaft above the plate a detachable lever having a pivot member for engaging said abutment and a cam surface spaced from said pivot member, said cam surface being disposed to swing about said pivot member to engage the plate and cam the plate against the ribs on movement of the lever about said pivot member, thereby to secure the ribs and skin in open position.

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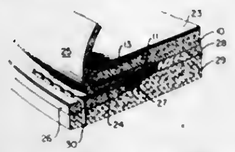
**2,644,178**
**MEANS FOR AND METHODS OF PRODUCING PREASSEMBLED NUTS AND WASHERS**
**Moritz H. Nielsen, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois**
**Application October 19, 1949, Serial No. 122,178**
**29 Claims. (Cl. 10—155)**



1. A method of manufacturing a permanently assembled nut and washer unit comprising forming at one end of a bar of nut stock a washer receiving section, thereafter grooving the stock inwardly from said end a distance corresponding to the desired nut height, thereafter forming in the nut stock an opening extending inwardly from said end into the plane of the groove in the stock, thereafter telescoping the washer with said washer receiving section of the nut stock, thereafter enlarging a portion of the nut stock on the free side of the washer to hold the washer thereon, thereafter severing the stock between the groove and the nut opening, and thereafter threading the nut blank.

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**2,644,179**
**PROCESS OF MAKING LASTED SHOES WITH FLANGED INSOLES**
**Arthur E. Kleven, Augusta, Maine**
**Application November 27, 1951, Serial No. 258,437**
**2 Claims. (Cl. 12—142)**



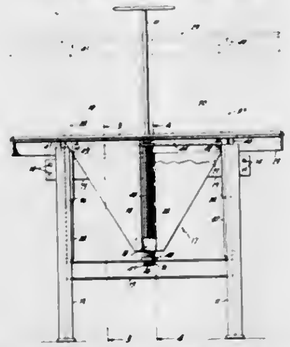
1. The process of making lasted shoes which comprises providing a stiff insole having a flexible, easily folded upstanding wall that is stiff enough to resist crushing bound to its peripheral edges by flanges attached to the upper and lower flat faces of the insole, said wall extending in substantial alignment with the peripheral edge face of said insole, adhesively attaching the marginal edge of an upper to only, and throughout, the upstanding portion of the outer face of said wall with said edge terminating substantially flush with the upper edge of said wall, inserting a last in the upper, forceably folding the



wall with the attached marginal edge of the upper inwardly over the exposed face of the insole while supported by the last and thereby drawing the adjacent unattached portion of the upper over the edge of the insole, and securing the folded wall with the attached marginal edge of the upper to the exposed face of the insole.

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**2,644,180**
**PLATFORM RAMP**
**Ralph W. Eycleshimer, Troy, N. Y., assignor to Beaunit Mills, Inc., New York, N. Y., a corporation of New York**
**Application February 25, 1949, Serial No. 78,439**
**5 Claims. (Cl. 14—72)**

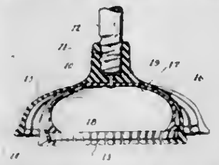


1. An adjustable ramp apparatus for loading and unloading trucks whose floor levels may be above, below, or in substantially the same plane as the surface of a loading and unloading platform, comprising a substantially vertically arranged and fixed frame adapted to rest adjacent the bottom of said platform and to be secured thereto; a fixed base supporting member constituting a lower section of said frame; a vertically arranged screw swivelly carried by said supporting member; a vertically reciprocable ramp structure including an upper portion, a lower portion and downwardly extending members rigidly connecting said portions, said lower portion engaging said screw for adjustably supporting said ramp structure, the upper portion of said structure being adapted to be substantially flush with the upper surface of said platform when said ramp structure is in its lowermost position and the lower portion of said structure being engageable with and cooperatively associated with the bottom of said screw when said upper portion is in said position; said upper ramp portion comprising hinged ramp plates connected laterally of said upper portion of said structure, one of said plates being adapted to rest flush on said platform surface when said structure is in its lowermost position, and angularly thereto when in raised position; and the other of said plates being adapted to rest upon the floor of said truck in either position as well as on said truck floor in said lowermost position when said floor is below the surface of said platform.

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**2,644,181**
**PLUNGER WITH WIPING FINGERS**
**Hettye S. Lazarus and Peter L. Lazarus, New York, N. Y.**
**Application November 30, 1950, Serial No. 198,340**
**6 Claims. (Cl. 15—105)**

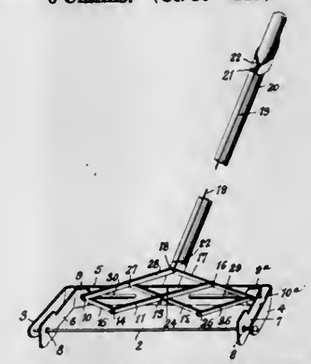
1. A brush comprising a body portion, a plurality of circumferentially arranged downwardly and outwardly curved weighted fingers connected to the body portion, alternate fingers being depressed whereby to provide inner and outer rows of fingers and means extending between the depressed fingers and the fingers which are not depressed to retain the depressed fingers in place to



provide the inner row, an operating handle and means securing the body portion to the operating handle whereby upon rotation of the operating handle the weighted fingers will be flung outwardly under centrifugal action to effect a cleaning of the surface of the vessel being cleaned.

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**2,644,182**
**COMPRESSING OR SQUEEZING DEVICE FOR MOPS**
**Philip Siegel, New York, N. Y.**
**Application August 26, 1948, Serial No. 46,310**
**6 Claims. (Cl. 15—119)**



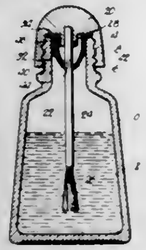
1. A mop comprising, a frame member, a swab composed of an elongated section of sponge material, end members between which the swab is disposed, means extending between said end members for supporting the sponge material, means for moving said end members toward one another to cause them to compress the swab between them, said means comprising a lazy-tong structure having its ends attached to the said end members and its central portion attached to an operating rod at a point to cause the end members to move toward or away from one another on longitudinal movement of the operating rod, said operating rod arising at the rear of the swab and mounted for longitudinal movement to cause contraction of the lazy-tong structure and move the members toward one another to cause them to compress the swab between them, and guiding means on the frame for the lazy-tong structure.

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**2,644,183**
**BRUSH STRIPPER ATTACHMENT FOR LIQUID CONTAINERS**
**Leo L. Kellett, Kansas City, Mo.**
**Application April 27, 1949, Serial No. 89,858**
**5 Claims. (Cl. 15—121.3)**

1. A device for simultaneously shaping the body of bristles of a brush and stripping therefrom an

excess of a substance thereon, said device comprising a hollow, open-base, conoidal body formed from flexible material and having an oval opening formed in the apex thereof to form said body



of bristles elliptically in transverse cross-section as the same is pulled through the opening; and means on the body for mounting the same within the neck of a bottle-like container.

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**2,644,184**
**MOP AND SHAKER ROD**
**Joseph P. Bem, San Jose, Calif.**
**Application June 26, 1948, Serial No. 35,449**
**3 Claims. (Cl. 15—147)**



1. A shakable mop device comprising a mop head including a mop supporting frame, an elongated handle pivotally connected to said frame centrally of the plane of the frame, means for oscillating the said frame on the pivotal connection of the handle, including a shaker rod having at one end a pivotal connection to said mop supporting frame in spaced relation to said pivotal connection of the handle and which, when reciprocated, is adapted for oscillating the mop head on the handle pivot, said shaker rod having at its opposite end portion an integral helically coiled portion slidably mounted circumferentially of the handle and adapted for gripping by the operator as a hand grip for reciprocating the shaker rod, said mop head having stop members disposed in spaced relation on opposite sides of and in alignment with the pivotal connection of the handle and adapted for contacting the handle adjacent the pivotal connection of the mop head when the mop head is oscillated by the shaker rod, and one of said stop members being intermediately spaced between the respective pivotal connections of the shaker rod and handle.

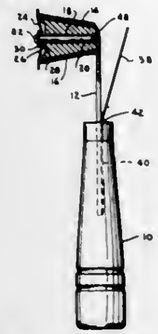
**2,644,185**
**MOP WITH DETERGENT SUPPLY**
**Leonard Weil, Nashville, Tenn.**
**Application April 11, 1949, Serial No. 86,805**
**3 Claims. (Cl. 15—209)**



1. A mop for cleaning toilet bowls and the like including inaccessible portions, which comprises a mop element, a handle element, a water-permeable fabric container mounted between the mop element and the handle element, and common fastening means securing together said mop element, handle element, and container, the said container being air-tight and provided with a water-dispersible starch layer sealing the interstices of the fabric, and a water-reactive detergent composition in the container adapted to become activated by the water entering the container responsive to dispersion of the starch sealing layer in the water, the composition consisting essentially of a mixture of comminuted caustic soda and comminuted metallic aluminum, the mop being adapted to be discarded when the composition in the container has become exhausted.

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**2,644,186**
**SASH AND MOLDING PAINTING DEVICE**
**Charles W. Guimond, Grosse Pointe Woods, Mich., assignor, by mesne assignments, to The Drum Corporation, Richmond, Mich., a corporation of Michigan**
**Application November 17, 1947, Serial No. 786,517**
**19 Claims. (Cl. 15—230)**

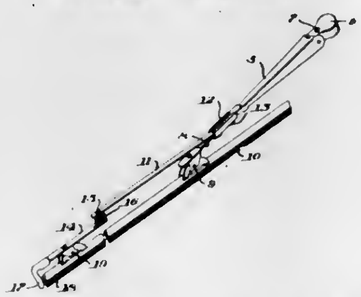


1. A device for applying coating material comprising, in combination, a handle, a shaft projecting laterally from one end of the handle, a body journaled for rotation on the shaft and having a circular outside surface adapted for transferring coating material thereon to a surface over which the body is rolled, a disc having a central bore larger than the diameter of the shaft and loosely mounted thereon adjacent to one end of the body so as to permit the disc to move transversely and angularly relatively to the shaft and to rotate thereon, the disc having an outside diameter greater than the circular surface of the end of the body adjacent to which it is mounted but such that when the disc is shifted transversely of the shaft its maximum extent one edge portion of the disc is brought up substantially flush with the periphery of said end of the body.



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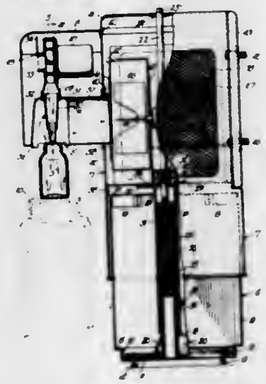
**2,644,187**
**WINDOW WIPER**
**John Paul Lacy, Pittsburgh, Pa.**
**Application November 6, 1947, Serial No. 784,419**
**4 Claims. (Cl. 15—255)**



2. A window wiper comprising a pivotally mounted elongated primary support, an elongated supplemental support, a resilient connection between the primary and supplemental supports permitting relative yieldable movement thereof generally in a plane containing the axis of the pivotal mounting for the primary support, an extension, a pivotal connection between the supplemental support and the extension, wiping means and a mounting for the wiping means on each of the primary support and the extension.

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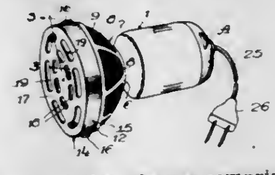
**2,644,188**
**PNEUMATIC CONTAINER CLEANING APPARATUS**
**Joseph C. Pacilio, Cicero, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware**
**Application March 26, 1952, Serial No. 278,701**
**8 Claims. (Cl. 15—304)**



1. Apparatus for pneumatically cleaning a procession of containers conveyed open end up past the same, said apparatus being vertically adjustable to the height of the containers and comprising, a stationary support base, a vertically adjustable support platform, means for adjustably supporting said platform above said base at various levels, a hood supported open side down and under which containers are adapted to be conveyed, a nozzle mounted in said hood with the discharge end thereof pointing down and approximately level with the bottom portions of said hood under which the containers pass so as to fit over the container mouths with enough clearance to avoid striking the same when said platform is adjusted to an elevation whereat the containers can be passed under said hood, a bonnet surrounding said nozzle so as to form a suction chamber therearound and mounted within said hood with the bottom opening thereof approximately level with the bottom of said hood, a blower the discharge opening of which is connected to the inlet end of said nozzle, a second blower the intake opening of which is connected with said bonnet above said bottom opening therein, and means for unitarily supporting said hood, nozzle, bonnet and blowers on said vertically adjustable platform.

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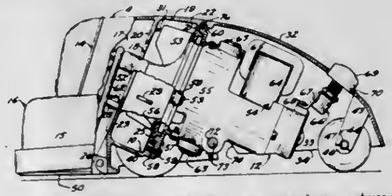
**2,644,189**
**HAND-SUPPORTED SUCTION BRUSH FOR CLOTHES**
**Elizabeth C. Calvin, Leawood, Kans.**
**Application April 12, 1950, Serial No. 155,467**
**5 Claims. (Cl. 15—344)**



3. A vacuum clothes cleaner comprising a cup-shaped frame having an open end and a plurality of outlet openings in the side wall thereof for the discharge therethrough of air, filtering means covering said openings, a suction fan in the frame, brushes carried by the blades of the fan and extending therefrom toward the open end of the frame, an end cap having a flat face plate covering the open end of the frame adapted to be lightly rubbed over the clothes and provided with spaced slots with which the brushes are intermittently brought into registry and through which suction is applied, and means for rapidly rotating the fan and brushes.

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**2,644,190**
**SUCTION CLEANER CASING ASSEMBLY**
**Ralph L. Brown and John E. Vance, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application February 25, 1949, Serial No. 78,295**
**2 Claims. (Cl. 15—412)**

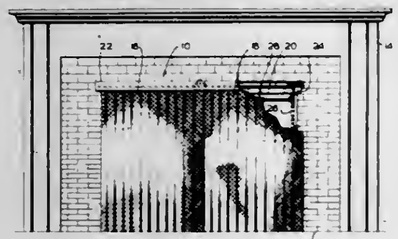


2. In a suction cleaner, a casing structure formed in two sections, one casing section defining the rear wall of a suction nozzle and part of a fan chamber, the other casing section defining the remaining walls of said suction nozzle, a part

of said fan chamber and having an opening at its underside for inserting a motor-fan unit, said casing sections cooperating to provide a fan receiving opening in said fan chamber for passing a fan therethrough into said fan chamber, and a motor-fan assembly inserted as a unit through said opening at the underside of said other casing section to pass the fan through said fan receiving opening formed by said two casing sections into said fan chamber and the motor into said other casing section.

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**2,644,191**
**FIREPLACE SCREEN SUPPORT**
**Fred J. Meyer, San Francisco, Calif.**
**Application July 17, 1951, Serial No. 237,123**
**5 Claims. (Cl. 16—87.4)**



1. In a device for supporting a fireplace screen, a pair of brackets, expansible means for forcing the brackets against the inner surfaces of opposing fireplace walls, support means for supporting the screen, a pair of hanger members connected to the support means and each having a prong member, and means comprising a series of apertures in the brackets for receiving the prong members, the apertures being arranged so that the prong members are received in a downwardly sloping position relative to a fireplace in which the screen is installed so that the gravitational forces exerted by the support means firmly seat the prongs against undesired removal, the series of apertures being arranged in a vertical row to permit adjustment in the height of the support means.

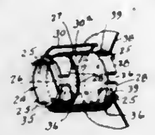
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**2,644,192**
**DETACHABLE HINGE**
**Ralph E. McClellan, Toledo, Ohio, assignor to Meilink Steel Safe Company, Toledo, Ohio, a corporation of Ohio**
**Application September 4, 1951, Serial No. 244,980**
**4 Claims. (Cl. 16—172)**



1. A detachable hinge comprising two leaves, one leaf comprising: a first flat portion, two spaced inclines extending outwardly from along one edge of said first portion and terminating in axially aligned cylindrical pin retaining eyes, and a pin fastened in said eyes and bridging the space between said eyes; and the other leaf comprising: second and third parallel flat portions joined by an offsetting portion, said third flat portion terminating in an open reversely bent hook remote from said offsetting portion, said third flat portion and said hook being of a width sufficient to pass between said eyes and to hook onto said pin.

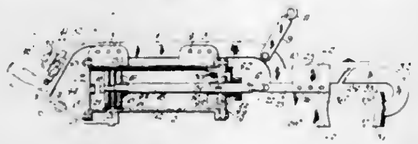
**2,644,193**
**SPRING SASH BALANCE**
**Axel W. Anderberg, Los Angeles, Calif.**
**Application November 17, 1950, Serial No. 196,320**
**7 Claims. (Cl. 16—197)**



1. In a spring sash balance, the combination comprising: a stationary axle, the axle being hollow and having a longitudinally extending slot at one side, the slot having an intermediate portion of increased width; and a spiral spring connected at its inner end to the axle, the spring near its inner end having a section of reduced width providing a shoulder engaging the inside of the axle at one side of the slot with the narrowed portion of the spring extending out of the axle through the intermediate portion of the slot.

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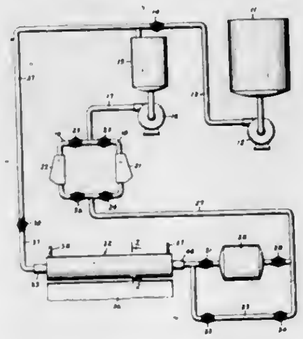
**2,644,194**
**AITCHBONE CUTTER**
**Metro Fill, West Kildonan, Manitoba, Canada, assignor to Canada Packers Limited, Saint Boniface, Manitoba, Canada**
**Application January 19, 1951, Serial No. 206,815**
**1 Claim. (Cl. 17—23)**



A cutter of the character described, comprising an elongated supporting frame having front and rear ends, an anguiated substantially V-shaped extension provided at the rear end of said frame and extending laterally therefrom, a cylinder secured to and depending from the rear end portion of the frame in parallel relation thereto and having its rear end portion secured to the depending portion of said V-shaped extension, a handle and a control valve provided on said V-shaped extension, said cylinder including a reciprocable piston and a piston rod projecting outwardly from the front end of the cylinder, means operatively connecting said control valve to opposite ends of said cylinder and delivering fluid under pressure selectively to front and rear sides of said piston for reciprocating the same, a suspension element provided on an intermediate portion of said frame for attaching the same to an overhead support, a guide slidably mounted on the front portion of the frame, a blade carried by said guide and depending therefrom, said blade having a V-shaped cutting edge at the front thereof, the projecting portion of said piston rod being operatively connected to said guide, a substantially J-shaped extension provided at the front end of said frame, a substantially V-shaped anvil secured to said J-shaped extension in opposing relation to said blade, said anvil comprising a pair of complemental half-sections spaced transversely apart and affording a slot therebetween to receive the cutting edge of said blade when said piston is in its full forward position.



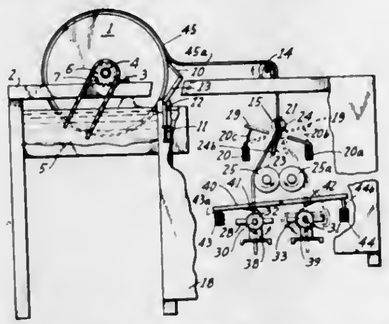
**2,644,195**
**METHOD AND APPARATUS FOR FORMING FILMS**
**William John Bennes, Irvington, and Charles Edward Leyes, Union, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware**
**Application May 14, 1949, Serial No. 93,352**
**20 Claims. (Cl. 18—15)**



18. Apparatus for preparing films from a liquid film-forming material, comprising a hopper, having an extrusion aperture, a conduit having an opening connecting the same with said hopper, and means including a pressure-operated closure member mounted in said opening for restricting the flow of the film-forming material into said hopper whereby the flow of said film-forming material through the extrusion aperture is restricted, the construction and arrangement being such that said means is operated by the pressure of the film-forming material passing through said conduit.

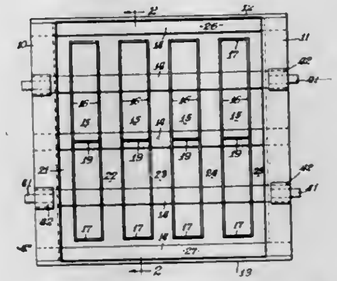
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**2,644,196**
**WAX SLABBING METHOD**
**Angelo J. Bevevino, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware**
**Original application November 20, 1948, Serial No. 61,196. Divided and this application December 10, 1949, Serial No. 132,343**
**2 Claims. (Cl. 18—47.5)**



1. Method of slabbing wax which comprises reeling a substantially continuous sheet of wax to form a multi-layered tubular band of wax, cutting said sheet of wax from said band after a predetermined interval, and compressing said tubular band of wax into slab form.

**2,644,197**
**METHOD FOR MANUFACTURING CORK GASKETS**
**Howard L. Glover, Chicago, Ill.**
**Application January 13, 1951, Serial No. 205,890**
**3 Claims. (Cl. 18—47.5)**



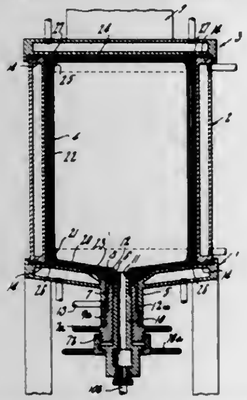
1. The method of manufacturing cork gaskets comprising the steps of molding a relatively thick flat ground cork body having a plurality of sections integral with each other and of thickness greater than their width, said sections surrounding at least one relatively large opening through said body; introducing hot air into the openings of said body and heating the exterior surfaces thereof to bake said body into a relatively rigid self-supporting frame; introducing cool air into said openings of said body and cooling the exterior surfaces thereof to rapidly reduce the temperature of said frame; trimming one of the flat surfaces of said frame and slicing a multiplicity of thin sheets from the side thereof whereby each sheet is a marginal shape having integral endless sectional strips corresponding in size and shape to each of said sections and an internal aperture corresponding in size and shape to each opening of said frame, and die cutting, from around each aperture of each of said sheets, a gasket of endless strip form and of shape generally corresponding to the shape of said apertures but larger than said apertures and spaced from the inner and outer edges of said sectional strips at all points.

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**2,644,198**
**PROCESS OF MAKING CONTAINERS**
**William B. Crawford, South Bend, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**Application April 26, 1950, Serial No. 158,235**
**3 Claims. (Cl. 18—59)**

1. The process of making an integral one-piece cylindrical polyethylene container having an opening in the top thereof which comprises forming a cylindrical side wall member consisting of polyethylene and flanged top and bottom wall members consisting of polyethylene, the top wall member having an opening therein, assembling said members in the shape of the container with an inflatable flexible diaphragm on the inside thereof, said diaphragm being shaped to the contour of the meeting side wall with the top and bottom walls of the container and having a neck extending through said opening, said flanged members being disposed at the ends of said cylindrical member with their flanged portions overlapping said ends, enclosing the assembly of said members and said diaphragm in a supporting mold cavity with said neck projecting through a wall of said cavity, inflating said diaphragm by introducing an inflating fluid through said neck and thereby causing said dia-

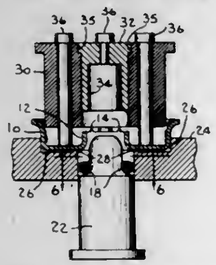
phragm to press said members outwardly against said mold cavity and to press said members together at their overlapping edge portions, heating said members to a temperature above the softening point thereof while so pressing with said diaphragm and thereby causing coalescence



of the polyethylene at said overlapping edge portions into integral, homogeneous joints, and cooling the polyethylene structure so formed to a temperature substantially below its softening point and at which it will retain the resulting shape while so pressing with said diaphragm.

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**2,644,199**
**METHOD OF LINING BEARINGS WITH MOLDED BUSHINGS**
**Lester C. Miller, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application September 5, 1950, Serial No. 183,168**
**1 Claim. (Cl. 18—59)**

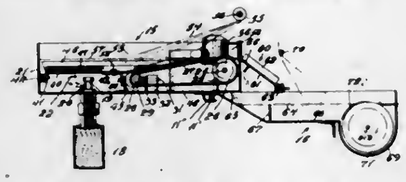


The method of making a bearing comprising forming a section of nylon rod into a split ring, placing said split ring on the tip of a punch, forcing said tip into a metallic neck while applying reactive pressure on said neck to cause the synthetic material in said ring to flow and form a split bushing having a hollow cylindrical portion within said neck and retaining flanges at each end of said neck.

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**2,644,200**
**SILK REELING MACHINE**
**Gustaf S. Beckman, Cranston, R. I.**
**Application May 9, 1946, Serial No. 668,508**
**16 Claims. (Cl. 19—3)**

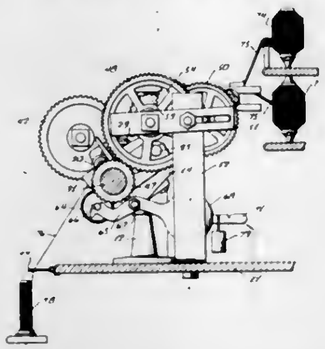
1. In a silk reeling machine, a supply basin for containing a reserve of cocoons of raw silk, means for moving liquid in the basin to move cocoons toward one end thereof, a false bottom in said basin, means for rockably mounting said bottom on an axis extending generally in the



direction of movement of the cocoons and means to rock said false bottom about said axis to agitate the liquid in said basin and cause separation of the cocoons.

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**2,644,201**
**FIVE-ROLL DOUBLE-DRAFT FRAME**
**James D. Friday and William F. Stilwell, Dallas, N. C., assignors of one-half to Forney D. Mays and Emery L. Williams, Dallas, N. C., jointly**
**Application November 18, 1949, Serial No. 128,094**
**4 Claims. (Cl. 19—130)**



1. In a spinning frame, a roving-drafting apparatus of the character described, comprising a first pair of fluted rolls, a second pair of fluted rolls, a smooth roll located between said first and second pairs, all of the rolls being parallel and being coplanar, a first gear train coupling the outer roll of the second pair to the outer roll of the first pair, a second gear train coupling the outer roll of the second pair to the inner roll of the second pair, both of said gear trains being formed and arranged to drive said outer roll of the first pair and said inner roll of the second pair in the same direction but at reduced speed with respect to the outer roll of the second pair, a third gear train coupling the outer roll of the first pair to the inner roll of the first pair for simultaneous rotation in the same direction, a fourth gear train coupling the smooth roll to the inner roll of the first pair for simultaneous rotation in the same direction, respective pressure rolls overlying and engaging the respective fluted rolls, a cleaning roller disposed in subadjacency to and parallel with the first pair of fluted rolls, pivoted levers supporting said roller, said levers being mounted for movement about an axis parallel with the axes of the first pair of fluted rolls and weighted elements associated with said levers for retaining said roller in frictional engagement of the outer roll of the first pair, the rollers of each pair being spaced a distance less than the space between pairs.



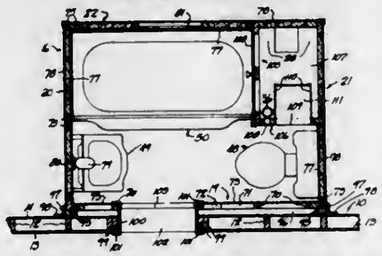
**2,644,202**
**BALL BEARING TOP ROLL**
**Louis M. Cotchett, Whitman, Mass., assignor to Textile Engineering Corporation, Whitman, Mass., a corporation of Massachusetts**
**Application June 8, 1949, Serial No. 97,815**
**35 Claims. (Cl. 19—142)**



35. A top roll for drawing mechanisms comprising a shaft, two sleeves encircling said shaft and spaced axially apart, anti-friction bearings supporting said sleeves in coaxial relationship to each other and to said shaft, one at least of said bearings including a cone axially adjustable on said shaft and combined with a cap for the end of said shaft, and means substantially enclosed inside of said cap but operable from a point outside of it for locking said cap to said shaft, said cap having an axial hole therethrough, smaller than said locking means, through which a tool may be inserted to operate said locking means.

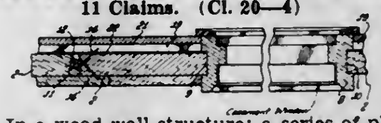
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**2,644,203**
**PREFABRICATED BATHROOM STRUCTURE**
**Joseph F. Donahue, South Bend, Ind., assignor to General Building Materials, Inc., South Bend, Ind., a corporation of Indiana**
**Application August 15, 1949, Serial No. 110,420**
**9 Claims. (Cl. 20—2)**



1. A prefabricated building structure adapted to be attached to another building structure to form a part of the latter, comprising fixedly interconnected floor, wall and ceiling units, each of said units being preformed and including a rigid frame, at least one rigid surface panel secured to said frame and insulation material within and spanning said frame, and a pair of interior vertical walls cooperating with a pair of said first wall units at a corner of the structure to define a stack extending the height of said structure said floor and ceiling units being hollow and having apertures communicating with said stack.

**2,644,204**
**WOOD WALL STRUCTURE**
**Harry Roy Davis, Beverly Hills, Calif., assignor of one-half to H. A. Sanders, Smith River, Calif.; John C. F. Merrifield, executor of said H. A. Sanders, deceased**
**Application June 26, 1950, Serial No. 170,369**
**11 Claims. (Cl. 20—4)**



1. In a wood wall structure: a series of planks having edges that overlap; plates at the opposite ends of the planks; and means fastening each plank to the plates adjacent one edge only of the planks, and only one of a pair of overlapping edges being fastened.

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**2,644,205**
**SLIDING DOOR STRUCTURE**
**Max S. Karp, West Los Angeles, Calif.**
**Application June 22, 1951, Serial No. 232,991**
**6 Claims. (Cl. 20—19)**



1. A sliding door structure comprising the frame of a rectangular enclosure and having upper and lower inwardly directed longitudinal grooves therein, a pair of sliding doors arranged in flush side-by-side position and having their respective upper and lower edges engaged in said grooves, said doors having adjacent lower corner portions above an intermediate part of the lower groove, and a forwardly and downwardly sloping toe plate in said groove beneath and constituting a sliding support for said lower corners of the doors to slidingly guide the latter forwardly.

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**2,644,206**
**AWNING TYPE WINDOW**
**Max Hoffman, Miami, Fla.**
**Original application July 17, 1944, Serial No. 545,279. Divided and this application October 24, 1949, Serial No. 123,177**
**3 Claims. (Cl. 20—42)**

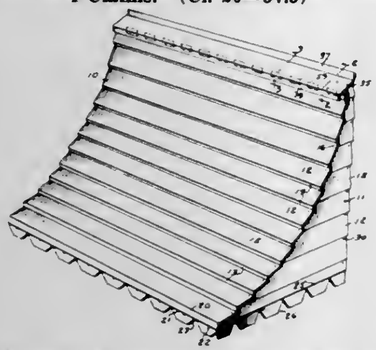


3. A window construction comprising a frame, sashes mounted one above another for swinging movement from a closed position in the frame to an outwardly inclined opened position, bars slidable vertically at the opposite sides of said frame, spaced plate like members secured to the frame, links secured at their upper ends to the respective

sashes and at their lower ends being pivotally connected to the respective plate like members, arms connecting the upper one of said sashes with said bars and opened during the downward movement of the bars, brackets carried by said bars, each formed with a vertical slot and provided with a lug extending partially about the upper end of its slot, arms extending from the side portions of the lower one of said sashes and carrying pins at their outer ends fitting into the slots of said brackets and slidable vertically therein, whereby the bars may be moved downwardly the length of the slots to open the upper sash and upon continued downward movement then open the lower sash, the pins having turning movement in the slots during the opening and closing movement of the lower sash, and fingers extending from outer ends of said arms radially of the pins for movement into engagement with the lugs of said brackets during the turning movement of the pins as the lower sash is opened.

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**2,644,207**
**METAL AWNING OR LIKE STRUCTURE**
**John C. McCormack, Pensacola, Fla., and Joseph L. White, Montgomery, Ala., assignors to Four-Way Awning Company, Pensacola, Fla., a corporation of Florida**
**Application April 19, 1948, Serial No. 21,984**
**4 Claims. (Cl. 20—57.5)**

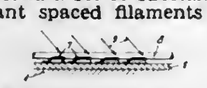


1. An awning comprising a roof sheet, structural supports horizontally spaced apart a substantial distance and contacting with said roof sheet, said roof sheet being bent horizontally at spaced points from its normal shape to provide the sheet with substantial beam strength transversely thereof and being free of support between said structural supports, said roof sheet having an inner end adapted to be arranged adjacent a supporting structure, and a flashing sheet arranged over and projecting beyond the inner end of said roof sheet, said flashing sheet and said roof sheet having interconnecting portions fixing them to each other and provided with ventilating openings.

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**2,644,208**
**METHOD FOR THE MANUFACTURE OF A SCREEN FOR A TELEVISION APPARATUS OR THE LIKE**
**Michel Auphan, Paris, France, assignor to Societe Generale d'Electronique, Monaco, Principality of Monaco**
**Application June 6, 1950, Serial No. 166,414**
**In France June 11, 1949**
**10 Claims. (Cl. 22—190)**

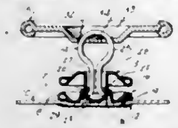
1. A method for manufacturing plates for television apparatus and the like, comprising the steps of covering a plate with a set of substantially parallel and equidistant spaced filaments; depositing on said plate a non-metallic substance so as to form intermediate said filaments non-metallic solid strips each being in contact with at least one of said filaments so as at least partly to fill the spaces between said filaments, said non-metallic solid strips being transformable into a fluid condition; removing said filaments from said plate so as to leave said deposits of said non-metallic solid separated from one another by spaces at least part of which was occupied by said filaments; placing on said deposits of said non-metallic solid a set of substantially parallel and equidistant spaced filaments extending in



a direction different from that of said first-mentioned filaments; depositing a metallic substance on the areas of said plate and said deposits of said non-metallic solid between said second-mentioned filaments so as to form metallic elements having a base end portion adhering to said plate and a raised end portion being substantially parallel to said plate and separated from said plate by a distance substantially corresponding to the thickness of said deposits of said non-metallic solid; removing said second-mentioned filaments from said deposits of said non-metallic solid; and removing said deposits of said non-metallic solid by transforming the same into the fluid condition thereof.

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**2,644,209**
**SEPARABLE BUTTON ATTACHING DEVICE**
**Arthur M. Ellis, Knoxville, Tenn.**
**Application February 14, 1950, Serial No. 144,075**
**2 Claims. (Cl. 24—107)**



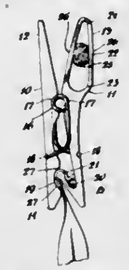
1. Means for detachably connecting a button to a piece of fabric having a female snap member secured thereon comprising a male snap member having a hollow boss adapted to be releasably engaged in a complementary female member, said boss having an external annular groove and an internal annular formation intermediate its length, and a U-shaped staple adapted to extend at its closed end through the thread apertures in a button and being disposed at its open end in the boss of said male member with the end portions of its legs at the open end thereof divergently directed and engaged under said internal annular formation in said boss.

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**2,644,210**
**CLOTHESPIN DEVICE**
**Robert W. McNamee, Westbury, N. Y.**
**Application June 27, 1950, Serial No. 170,548**
**1 Claim. (Cl. 24—137)**

In a clothespin having two members each provided with a clothes clamping jaw at one end and a lever arm at the other end and wherein spring means provide a pivotal connection for said members intermediate their ends and urge the jaws of said members into clothes clamping position; a clothesline engaging eyelet element defined in one lever arm, said eyelet being closed and extending from a point adjacent the pivotal connection of said member to a point adjacent the end of said lever arm, the eyelet formed in the member being sufficiently large at the end adjacent the pivotal connection to receive loosely a clothesline and being sufficiently small adjacent the end of the lever arm so as to bind

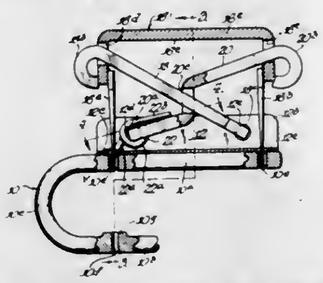




upon the clothesline, the portions of the member defining the walls of the eyelet being adapted for resilient outward deformation when pressure is exerted against the inner faces of said portions, the portions of the lever defining the eyelet being an intergral structure whereby the walls of the eyelet are supported at both ends.

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**2,644,211**
**PIN FASTENER**
**Lawson D. Sumner, Lake George, Colo.**
**Application November 10, 1952, Serial No. 319,689**
**7 Claims. (Cl. 24—162)**



1. A pin fastener for garments comprising in combination: a U-shaped frame having a pair of substantially parallel legs and a connecting web, one of the legs having a pair of spaced openings; a carriage having a pair of prongs received in said openings to open and close with respect to the other leg; said one leg having a pair of outwardly extending wings each having a pair of openings in substantial registry respectively with the openings in said one leg; a pair of crossed links having trunnions extending into the openings of the wings and slidably received in the carriage, respectively, one link having a slot to receive the other to define a sliding fit, and each link having a head portion adapted to seat on the carriage to limit the opening movements of the carriage.

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**2,644,212**
**MAGNETIC HOLDER FOR PENCILS**
**Albert A. Markowitz, Bronx, N. Y.**
**Application March 5, 1951, Serial No. 213,904**
**7 Claims. (Cl. 24—201)**

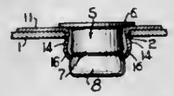
3. Means for securing a tool to the person comprising an apertured housing to receive the tool, a magnet embedded in said housing having one end extending therefrom and a clip holding disc of magnetizable material, said disc including an annular flange on the periphery thereof, said flange having an annular lip spaced from said disc, said disc and lip forming a pocket,



the magnet being received in said pocket, whereby the flange and lip prevent accidental separation of said magnet and disc in the event of slippage.

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**2,644,213**
**LOCKING STUD TYPE MOLDING FASTENER**
**William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application December 9, 1947, Serial No. 790,668**
**2 Claims. (Cl. 24—217)**



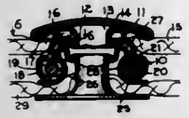
1. In a fastening device for attachment to an apertured support, a base plate having an aperture, support-engaging fingers depending from opposite side edges of said aperture substantially normal to said plate, the outer ends of the fingers extending angularly toward each other, stud-retaining projections extending inwardly from opposite side edges of said aperture intermediate said support-engaging fingers generally in the plane of said plate, and a locking stud member having a base, a neck portion extending from said base, and an enlarged head on the end of said neck portion opposite said base provided with shoulders adjacent said neck portion spaced from the base a distance substantially equal to the length of the support-engaging fingers, said locking stud member being received within the aperture in the base plate with the neck thereof extending between the support-engaging fingers, the shoulders on the locking stud being engaged by said outer ends of the support-engaging fingers, whereby the locking stud is retained in permanent assembly with the base plate and the support-engaging fingers are spread outwardly of said stud to engage a support.

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**2,644,214**
**THREE-SIDE LOCK SNAP FASTENER**
**Harold S. van Buren, Jr., Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application October 21, 1950, Serial No. 191,406**
**8 Claims. (Cl. 24—218)**

1. A snap fastener socket member for use with a stud having an enlarged head portion and a contracted neck portion, said socket member com-

prising a hollow body having an opening therein to receive the stud, said body having an annular recess adjacent said opening, an annular expansible spring member disposed in said recess, and



means on one side of said body extending radially into the opening protecting a portion of said spring on one side of the body from receiving axial forces during insertion and withdrawal of the stud.

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**2,644,215**

**SNAP FASTENER SOCKET ASSEMBLY**

**Harold S. van Buren, Jr., Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**

**Application October 21, 1950, Serial No. 191,408**
**4 Claims. (Cl. 24—218)**



1. A three side lock snap fastener socket assembly comprising a socket member and an attaching member for assembly onto opposite sides of a supporting sheet, said attaching member being adapted to receive indicia thereon to indicate an unlocking side of the socket member and having radial projecting portions disposed on the inner side to project toward the supporting sheet, said socket having a projecting portion to engage a portion of the supporting sheet during attachment to prevent rotation of the socket relative thereto, said projecting portion being disposed on the socket to compress a portion of the supporting sheet between the projecting portions on the attaching member to prevent rotation of the attaching member relative to the socket so that the indicia will be retained in the correct angular relation to the socket.

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**2,644,216**

**FIXED RESILIENT CLIP TO HOLD ARTICLES**

**William N. Aleshin, South Windsor, Conn.**

**Application June 17, 1950, Serial No. 168,714**
**1 Claim. (Cl. 24—259)**



A spring clip constructed of a single strip of resilient sheet metal and formed to provide a substantially circular loop having a receiving opening at one side thereof, a foot portion adjacent to one side of said receiving opening, a lead portion bent outwardly from said loop at the opposite side of said receiving opening and extending in a direction away therefrom, a retaining finger continuing inwardly from said lead portion in a direction transversely to the loop, and normally disposed adjacent to the foot portion, the said foot portion having a U-shaped slit therein forming a retaining tongue and a slot extending from said slit to receive the shank of a fastening member underneath the head thereof; the said tongue being normally disposed in front of said slot to prevent the passage of the shank from the slot, but being bendable to permit removal of the tongue from in front of the slot to thereby permit the passage of the shank into the slot, and a lead portion on the foot portion bent upwardly from the plane of the foot portion and projecting into the said receiving opening to guide a member over the head of the said fastening member.

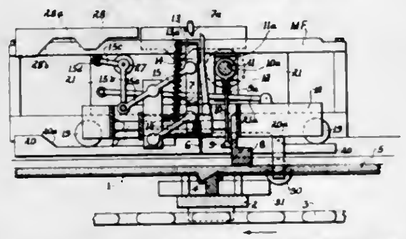
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**2,644,217**

**METHOD OF AND APPARATUS FOR THE MANUFACTURE OF ROOFING TILES AND THE LIKE**

**George W. A. Agar, Wellington, New Zealand**

**Application September 23, 1949, Serial No. 117,427**
**In Australia September 29, 1948**
**15 Claims. (Cl. 25—43)**



1. A method of severing a travelling web of plastic material into tile lengths and of forming integral head checks on the respective transverse edges of the tiles, comprising the steps of transversely cutting the travelling web by causing a knife to descend while it is travelling bodily in the same direction and at the same speed as the web and then moving said knife upwardly and rearwardly upon completion of its cutting stroke in order to cut the web transversely and then displacing plastic material immediately to the rear of the cut rearwardly and upwardly so that it comes to rest upon the upper surface of the tile web, and subjecting said displaced material to downward pressure so that it is moulded and consolidated in the form of a head check upon the new leading edge of the travelling web.

3. Apparatus for severing a travelling web of plastic material into tiles and for forming integral head checks on the respective transverse edges of the tiles, comprising a knife located above the web, means for moving the knife forwardly in unison with the travelling web, means causing the knife to descend and sever the web, means for moving said knife longitudinally through the web at the conclusion of the cutting action to push plastic material immediately at the cut made by the knife so that the material is squeezed above the upper surface of the web, and means travelling in unison with the web for subjecting the material that is displaced above the surface of the web to downward pressure so that it is moulded and consolidated in the form of a head check upon the edge of the travelling web.

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**2,644,218**

**MOLD AND METHOD FOR FORMING THE BELL OF A BELL-ENDED PIPE**

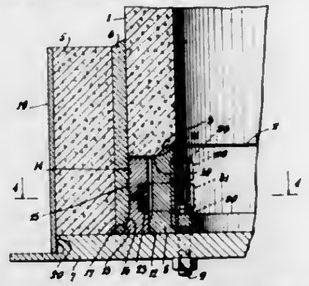
**Hugh F. Kennison, Verona, N. J., assignor to Lock Joint Pipe Company, East Orange, N. J., a corporation of New Jersey**

**Application August 19, 1948, Serial No. 45,078**
**4 Claims. (Cl. 25—128)**

3. A mold for attaching a collar to a conduit and for forming the interior of a bell at the end



of the conduit comprising a base, a mold ring for forming the interior of a bell, said mold ring having a removable segment, means for supporting a conduit from one end in spaced relation to said base, said means being constructed and arranged to maintain said mold ring in con-



centric relation to said conduit, and means for mounting a collar in spaced relation to said conduit and mold ring for providing an annular space outside of said conduit and mold ring for receiving filling material, whereby said collar is attached to the conduit and the interior of the bell is formed exteriorly of the mold ring.

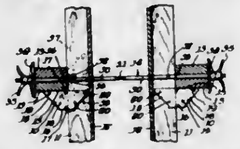
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**2,644,219**

**WALER SUPPORT**

**Chester I. Williams, Grand Rapids, Mich.**

**Application June 22, 1950, Serial No. 169,732**
**3 Claims. (Cl. 25—131)**



2. The combination with a concrete form construction including sheathing and studding, and waler members adapted to be positioned transversely with respect to the studding, of a plurality of trapezoidal shaped plate-like waler supporting means symmetrically shaped and adapted to be affixed to the side surfaces of the studding, each of said waler supporting means including lug-shaped means symmetrically formed at substantially the center line thereof and from opposite edges of the waler supporting means and adapted to abut the front edge of the studding abutting the waler members to which the waler supporting means is affixed for positioning the waler supporting means on the studding, and perforations symmetrically located adjacent the opposite edges of the waler supporting means, said perforations constructed and arranged for affixing the waler supporting means to the studding in either of their erected positions on opposite faces of one of said studding.

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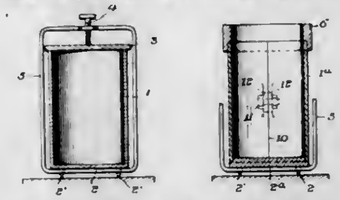
**2,644,220**

**METHOD OF PRODUCING TEST SPECIMENS OF CONCRETE FOR PRESSURE TESTS**

**Sven Thaulow, Royken, Norway**

**Application November 24, 1951, Serial No. 258,007**
**In Norway June 6, 1951**
**3 Claims. (Cl. 25—155)**

2. A method of producing test specimens of concrete for pressure tests, comprising assembling a standard container and a removable extension ring for temporarily extension of the height of said container, filling said assembly with concrete mass during tamping and shocking of the same, removing said extension ring from the container, abrading surplus mass until level



with the upper end of the container, closing the filled container and supporting said container with its longitudinal axis horizontally until the mass has solidified and at least partially hardened.

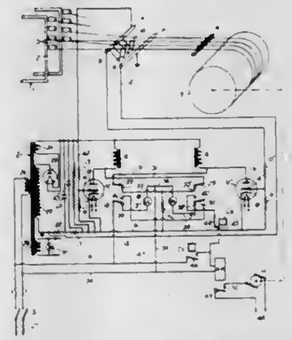
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**2,644,221**

**STOP MOTION FOR TEXTILE MACHINES**

**Philip N. Smith, Clemson, S. C., assignor to Deering Milliken Research Trust, Pendleton, S. C., a nonprofit trust of Maine**

**Application December 5, 1950, Serial No. 199,314**
**6 Claims. (Cl. 28—51)**



1. In a textile machine the combination comprising means for advancing a plurality of threads under tension, a guide means associated with each thread adapted to be moved when its associated thread is slacked, a pair of contacts associated with each guide means, means grounding one only of each pair of contacts, a pair of electronic tubes each having a cathode, a control grid and an anode, a resistor connected at one end to the control grid of one of said tubes and at its other end to the ungrounded one of certain of said pairs of contacts, a resistor connected at one end to the control grid of the other of said tubes and at its other end to the ungrounded one of certain other of said pairs of contacts, a source of energy, a pair of relays, the anode of each tube being connected to the high potential end of said source through one of said relays, grid leak resistors for said tubes, a common cathode resistor connecting the cathodes of said tube with the low potential end of said source, said low potential end of said source being grounded, whereby said tubes and relays are all energized when the threads are under tension but upon slackness of any one of the threads and consequent grounding of the control grid connected to the contact of the pair of contacts associated with the guide means for such thread the tube controlled thereby is de-energized and breaks the circuit of the relay

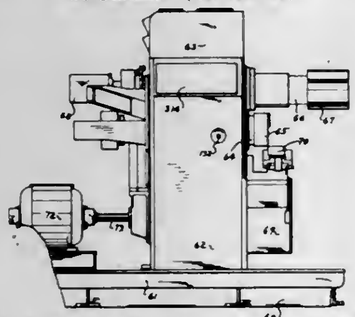
connected thereto, means responsive to release of either relay for stopping said first mentioned means, means operative upon release of either relay to maintain the other relay energized, and means for maintaining a potential difference across said cathode resistor independently of the state of energization or deenergization of said tubes.

2,644,222

## MACHINE TOOL

Myron S. Curtis and Harry Schoepe, Cleveland, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application August 22, 1947, Serial No. 770,050
26 Claims. (Cl. 29—43)



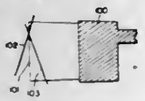
1. In a machine tool having a support, a spindle rotatably carried by said support and adapted to mount a tool or workpiece, a longitudinally movable and rotatably indexible carrier mounted in said support and provided with a turret portion adapted to carry tools or workpieces, means for rotating said spindle and for moving and indexing said carrier, a control turret carried by said carrier and movable and indexible therewith, actuating elements positioned on said control turret, and control elements for said means actuated selectively during longitudinal movement of the carrier by said actuating elements.

2,644,223

## CUTTING TOOL FOR GEAR SHAPING

Walter S. Praeg, Detroit, Mich., assignor, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont

Application June 28, 1948, Serial No. 35,609
2 Claims. (Cl. 29—95)



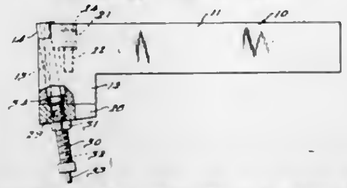
1. A gear shaper cutter for use in cutting gears and the like consisting of an elongated base portion of substantial length adapted for mounting said cutter on a tool support, an elongated tooth carrying rib portion spaced from said base portion, a multiplicity of spaced cutting teeth carried by said tooth carrying rib portion and positioned to cut by relative reciprocation of the cutter and the work in a direction substantially perpendicular to said base and rib portions, a flexible resilient web portion formed to extend substantially coextensively with said base and rib portions and joining said portions, said web being of a thickness selected in accordance with the cutting action such as to flex under cutting forces developed in a direction generally perpendicular to said web while preventing displacement of said cutting teeth in any direction generally parallel to said web during cutting and said web being located closer to one side of said rib portion than to the other side thereof.

2,644,224

## TOOLHOLDER

Adrian E. Chilcott, Detroit, and William F. Grier, Royal Oak, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application May 16, 1950, Serial No. 162,338
4 Claims. (Cl. 29—96)



1. A holder for a machine tool comprising a base portion having a tool receiving passage at one end thereof, a wedge member for wedgingly retaining said tool within said passage, means on said base portion for releasably clamping said wedge member against said tool, tool positioning means adjustably mounted on said base portion and extending into said tool receiving passage, and tool ejecting means mounted on said base portion and shiftable relative to said positioning means for urging said tool away from said positioning means and outwardly of said passage.

2,644,225

## METHOD OF FORMING A FIN RADIATOR ASSEMBLY

Clifford H. Dietz, Indianapolis, Ind., assignor to Hall-Neal Furnace Company, Indianapolis, Ind., a corporation of Indiana

Application April 25, 1950, Serial No. 157,878
1 Claim. (Cl. 29—157.3)



The method of forming a fin radiator assembly which comprises forming a plurality of planar fins in generally rectangular shape; bending a foot from one edge portion of each fin at substantially right angles thereto; bending end portions of a planar sheet metal wall in the same direction from and at substantially right angles thereto, said end portions being formed to have the same vertical and horizontal dimensions as the corresponding dimensions of the areas of said fins extending from said feet; positioning said fins at approximately equal distances apart and along said wall with said fin feet resting against the wall, and extending from the wall in the same direction as said wall end portions extend; welding said feet to said wall; bending the resultant wall with the fins assembled thereon to the desired degree of curvature with said fins and said wall end portions converging by outer ends to be disposed radially toward the center of curvature of said wall; and maintaining said wall curvature by passing a rod adjacent to said converging ends through said wall end portions, said fins, and through fin spacing thimbles inserted between adjacent fins and the wall end portions, and applying abutments to the outer ends of said rod outside of said wall end portions, against which abutments, said wall outer end portions bear.

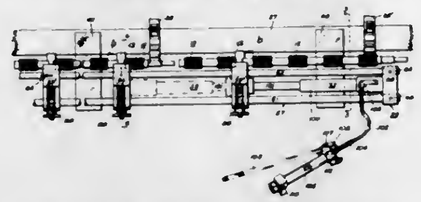


2,644,226

## TEXTILE ROLL ASSEMBLING AND DISASSEMBLING APPARATUS

Robert R. Elliott, Sr., Pawtucket, R. I., assignor, by mesne assignments, to Whitin Machine Works, a corporation of Massachusetts

Application December 30, 1948, Serial No. 68,358
1 Claim. (Cl. 29—238)



Apparatus for use in joining or for separating a pair of fluted boss type textile drawing roll sections which are arranged for interfitting axial connection in end-to-end relation with each other, and for use in association with a small portable hydraulic ram unit having a cylinder with a movable plunger therein operated hydraulically by a pump unit, said apparatus comprising a frame including a pair of spaced elongated rod members, a cross bar and a stationary roll-clamping device each fixedly mounted on and extending between said rod members rigidly connecting the rod members in spaced parallel side-by-side relation providing a unitary rail structure, an intermediate movable roll-clamping device slidably mounted on and between said rod members for longitudinal adjustment bodily therealong between said cross bar and said stationary roll-clamping device, said stationary and movable roll-clamping devices each including in its structure cooperating fixed and movable jaw members adapted to clampingly grip the cylindrical neck part between adjoining fluted bosses of a textile drawing roll section to support a single roll section during joining or separation of the two roll sections, both of said clamping jaws of each clamping device being situated on the outside of the associated clamping device in extended relation beyond and at one and the same side of said rail structure and projecting therebeyond in a direction transversely of the path normally containing the axes of the respective roll sections to be joined or separated for supporting both roll sections in axially aligned relation and in an outboard position with respect to said rail structure, said movable roll-clamping device being propelled by a ram unit to be positioned between and in engagement with said movable roll-clamping device and either said cross bar or said stationary roll-clamping device when a pump unit connected hydraulically with the ram unit is actuated to effect either union or separation of the roll sections carried by the respective roll-clamping devices.

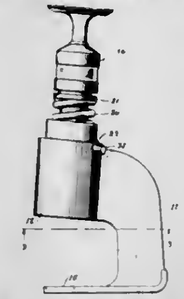
2,644,227

## SPRING VALVE JIG

Yunus Unal, Lafayette, Ind.

Application December 12, 1947, Serial No. 791,185
3 Claims. (Cl. 29—283)

2. A jig for supporting a spring valve during spring release or assembly, comprising a base adapted to rest on a work surface, a tubular housing open at each end and of a length less than the length of the valve with which it is to be used, supported on said base in spaced relation therefrom with its longitudinal axis at a slight angle to the vertical, said housing having a pair of opposed inwardly extending flanges formed at its lower end, a tubular member open at both ends disposed within said housing and supported therewithin on said flanges, said tubular member having a pair of facing inwardly extending flanges at its lower end, and cooperating means on said housing and said tubular member for separably interengaging the same with their flanges in register with one another.

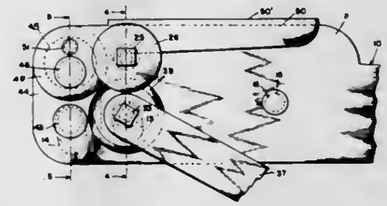


2,644,228

## ROTARY DRIVE WHEEL TYPE CAN OPENER

Robert E. McLean, Columbus, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee

Application June 16, 1948, Serial No. 33,280
19 Claims. (Cl. 30—9)



1. A can opener of the rotary drive wheel type comprising two members, a coupling therebetween facilitating movement of one of the members relative to the other, a can rim engaging driving wheel rotatably supported on one member, means for rotating the wheel, a disk cutter supported by the other member, the cutter and wheel being moved into coacting relation upon movement of one member relative to the other, the support for the cutter being of a character to permit limited axial movement of the cutter, a circular element supported for rotation on the turning axis of the wheel, and a second circular element connected with the cutter, said circular elements being peripherally opposed and positioned to be moved into overlapping engaged relation upon movement of the cutter and wheel into coacting relation, said elements having their peripheries smooth and transversely inclined for sliding camming engagement to impart axial thrust to the cutter.

2,644,229

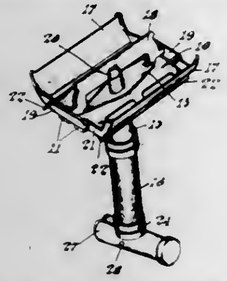
## QUICK-OPENING RAZOR

Joseph Muros, Newtonville, Mass., assignor to The Gillette Company, Boston, Mass., a corporation of Delaware

Application November 27, 1948, Serial No. 62,405
6 Claims. (Cl. 30—60.5)

1. A quick-opening safety razor comprising a blade-supporting member and a pair of separa-

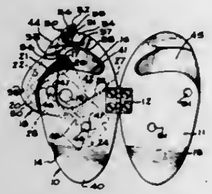
ble cap sections cooperating therewith to clamp a flexible blade in shaving position, together with a spider carrying the cap sections and having a spindle, a handle enclosing the spindle and providing an abutment at its lower end, a toggle



link slidable on said abutment, a second toggle link connected to the first link, a close wound spring connecting said second link and spindle, and a compression spring concentric with and enclosing said close wound spring and tending at all times to lift the spider.

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**2,644,230**
**CARTON CUTTER HAVING A RETRACTABLE GUARD**
**Alfred H. Anderson, Los Angeles, Calif., assignor, by direct and mesne assignments, to A and K Safety Carton Cutter, Inc., Los Angeles, Calif., a corporation of California**
**Application September 15, 1951, Serial No. 246,818**
**3 Claims. (Cl. 30—151)**



3. In a cutting tool: a body member; a cover member; a blade secured to one of said members, said blade having a sharpened portion projecting outwardly of said members; a pivoted guard having a recessed portion movable to a position whereat the projecting portion of the cutting edge of the blade is covered; yielding means urging said guard to said position, said guard being movable to a position whereat the extended portion of the blade is exposed; and latch means adjacent the guard and adapted to latch same in the protective position, said latch means having a part extending outwardly of said members so as to be readily engageable with a finger of the user to release the guard when the device is put to use.

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**2,644,231**
**DENTURE RETAINER**
**John E. Brennan, Chicago, Ill.**
**Application August 13, 1951, Serial No. 241,561**
**7 Claims. (Cl. 32—2)**

1. The combination with a denture, of means for retaining the denture in firm engagement with a gum comprising an arcuate member to be positioned within the gum, an arcuate bar for resting upon the gum and connected to the



arcuate member, and clamp means supported in the denture in a position to releasably engage the arcuate bar.

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**2,644,232**
**INSULATING AND MEDICINAL PAD FOR DENTAL CAVITIES**
**Vahé S. Roubian, Manhasset, N. Y.**
**Application March 25, 1950, Serial No. 151,895**
**9 Claims. (Cl. 32—15)**



1. An insulating pad for dental cavities comprising a flat base which is made of sheet material and which is impregnated with a plastic material consisting of a plastic body, an insulating filler, and a medicinal substance.

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**2,644,233**
**ARTICULATOR**
**Albert Shmukler and Harry Bronstein, Philadelphia, Pa.**
**Application November 7, 1950, Serial No. 194,418**
**8 Claims. (Cl. 32—32)**



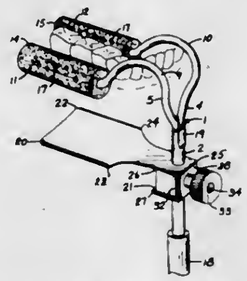
1. In an articulator having an upper mounting plate attached to a bracket by a universal joint, means associated with said joint for providing substantial relative translational movement of said plate with respect to said bracket along a first path in the general plane of and laterally transverse to the longitudinal direction of said bracket and along a second path in the general plane of and parallel to the longitudinal direction of said plate, said paths and said planes being respectively angularly variable with respect to each other, and means operable by a single control for locking said plate to said bracket in any of their possible relative positions.

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**2,644,234**
**INSTRUMENT FOR REMOVING SALIVA**
**Joseph Earl Scott, Pratt, Kans.**
**Application April 7, 1952, Serial No. 280,945**
**1 Claim. (Cl. 32—33)**

A device for removing saliva from the mouth of a patient, said device being of the type comprising a tubular stem adapted for connection with an ejector and having diverging tubular branches terminating in suction nozzles adapted for support along the respective sides of the alveolar ridge of the patient's mouth, an absorbent material covering each suction nozzle to protect the cheek and tongue of the patient, and a plate having adjustable support on the tubular stem for engaging under the jaw of the patient to retain said suction nozzles in position relatively to the sides of the alveolar ridge, said plate having a chin portion provided with a substantially flat shank portion and a downwardly extending web portion connected with a substantially flat terminal portion to form a guideway therebetween with sides and end thereof opposite said web portion being open, a rectangular slide





block in said guideway and having opposite faces slidably engaging said faces of the shank and terminal portions, said slide block and said shank and terminal portions having openings passing the tubular stem, a threaded stem having connection with the slide block and projecting through an opening in said web portion, and a thumb nut on the threaded stem and having a portion engaging the web portion of said plate to shift the slide block with the opening therein out of coaxial registry with the openings of the shank and terminal portions to effect a clamping pressure on opposite sides of said tubular stem for retaining the plate in an adjusted position relatively to said tubular shank portion for retaining the suction nozzles in position on the respective sides of the alveolar ridge.

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**2,644,235**
**DENTAL PARALLELING INSTRUMENT**
**Victor W. Mintz, Maplewood, N. J., assignor to Precious Metals Research Works, Inc., New York, N. Y., a corporation of New York**
**Application June 12, 1952, Serial No. 293,150**
**4 Claims. (Cl. 32—67)**



1. A dental paralleling device for use in connection with a contra-angle having a head to which a projecting burr is secured by a nut, said paralleling device comprising an elongated hollow tube having a slot axially coextensive therewith, an open ring extending from one end of the tube, an elongated bar of smaller cross-section than the tube slidably axially disposed therein, said ring being so proportioned as to be adapted to be secured to the head by said nut, a paralleling pin secured to said bar, adjacent one end thereof, for projecting through said slot, and a shorter stud secured to said bar intermediate said pin and the other end of the bar, for projection through said slot.

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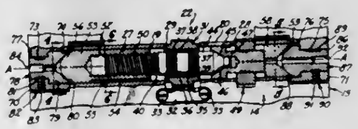
**2,644,236**
**CUFF RULE**
**John L. Pallos, Gary, Ind.**
**Application March 19, 1951, Serial No. 216,396**
**2 Claims. (Cl. 33—2)**



1. A cuff rule comprising an elongated flat body member having a straight end edge and a plurality of longitudinally spaced slots in one end, said slots being disposed transversely of the body member and comprising an outer slot, an intermediate slot and an inner slot, each of said slots including a forward edge and a rear edge, the forward and rear edges of said slots being parallel to each other and to the end edge of said body member, the distance between the forward edge of the outer slot and the end edge of the body member being equal to the distance between the forward edges of the intermediate slot and the outer slot as well as the distance between the forward edges of the intermediate slot and the inner slot, the distance between the rear edges of adjacent slots being equal to the distance between the rear edge of the outer slot and the end edge of the body member.

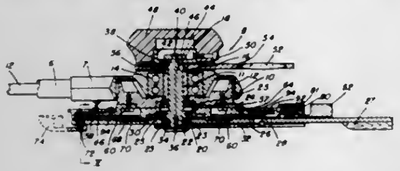
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**2,644,237**
**ECCENTRIC MOUNT FOR TELESCOPIC GUN SIGHTS**
**Frank A. Pachmayr, Culver City, Calif.**
**Application December 19, 1949, Serial No. 133,736**
**11 Claims. (Cl. 33—50)**



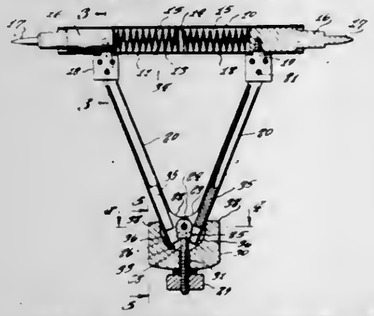
1. A mount for a telescopic gun sight including: a base for securing said mount to a gun; a carriage for mounting said telescopic gun sight for movement between a first, operative position and a second, inoperative position; attachment means for mounting said carriage upon said base; and rotatable, eccentric adjustment means for orienting said carriage upon said base to vary the longitudinal axis of said sight with reference to the bore of said gun, said adjustment means being retained in operative relationship by common, adjustable attachment means interposed between said adjustment means.

2,644,238
**DRAFTING MACHINE**
**Allister L. Baker, Denville, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey**
**Application March 22, 1950, Serial No. 151,287**
**7 Claims. (Cl. 33—79)**



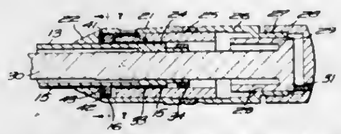
1. In a drafting machine for use on a drafting board, a drafting head comprising a member maintained in orientation on the drafting board, a protractor arm for carrying at least one straightedge rotatable with respect to said member maintained in orientation, an annular member also rotatable with respect to said member maintained in orientation but having a surface in frictional contact with a surface of said member maintained in orientation, resilient means applying constant frictional forces between said surfaces, said frictional forces being of sufficient magnitude so that said annular member will remain fixed to said member maintained in orientation during free rotation of said protractor arm, cooperating index mark and protractor scale means carried by said member maintained in orientation and said annular member, means for clamping said annular member to said protractor arm to move it with respect to said member maintained in orientation against friction and a clamp acting between said protractor arm and said member maintained in orientation to fix said protractor arm at any selected angle.

2,644,239
**INTERNAL MEASURING INSTRUMENT**
**Gustav Bellstaedt, New York, N. Y.**
**Application May 16, 1952, Serial No. 288,153**
**4 Claims. (Cl. 33—157)**



1. A measuring instrument comprising a hollow barrel having plugs slidably mounted in the ends thereof, a transverse partition through the midpoint of the barrel, expansion springs in the barrel positioned between said partition and said plugs normally urging said plugs outward from the barrel, said barrel having spaced slots through the bottom thereof on the sides of said partition and lying in a common plane through the axis of the barrel, lugs anchored to said plugs and extending through said slots, a pair of arms each having one end pivoted to one of said lugs, the other ends of said arms having ears thereon, a pivot pin extending through the ears of both of said arms thereby pivotally joining said arms at said other ends thereof, a yoke including a saddle and two parallel legs, a threaded stem extending from said saddle and having a nut threaded thereon, said yoke legs being positioned between said ears and having said pivot pin passing therethrough, a rider plate having a rounded cut-out providing two legs thereon and having a passage therethrough midway between and parallel with said rider legs, said stem passing loosely through said rider passage and positioning said rider slidably on said stem between said saddle and said nut, the inner edges of the extremities of said rider legs engaging said arms and limiting the spreading of said arms about said pivot pin, said arms thereby being adapted to be brought closer together by tightening said nut on said stem and to be spread farther apart owing to the force of said springs by loosening said nut.

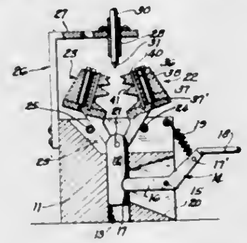
2,644,240
**EASY READING MICROMETER CALIPER**
**James A. Stedman, Cranston, R. I., assignor to Curtis Company, a corporation of Pennsylvania**
**Application May 5, 1950, Serial No. 160,242**
**2 Claims. (Cl. 33—166)**



1. In a micrometer caliper having a spindle, a cylindrical barrel threadedly mounted on the spindle, a rotatable cylindrical thimble slidably positioned on the barrel, said thimble having an annular recess adjacent the barrel, a cylindrical sleeve in said recess spaced from the forward end of the recess to provide an annular chamber, and having a threaded rear portion projecting rearwardly from the thimble, said thimble being internally threaded on its rear end and engaging the sleeve threads, a cap extending over the rear end of the spindle and connected thereto for joint rotation, the forward end of the cap being internally threaded and engaging the sleeve threads, the forward end of the sleeve having five uniformly spaced recesses with spherical seats, number disks of dished shape rotatably seated on said spherical seats and having four notches spaced ninety degrees apart, openings in the barrel permitting seeing of the numbers on the number disks, and a ring member in said annular chamber splined to the barrel for sliding movement thereon, said ring member having a tooth successively engageable with the notches of the number disks as the cap thimble and sleeve are manually rotated.

2,644,241.
**CENTERING DEVICE**
**Walter E. Frisk, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois**
**Application August 27, 1949, Serial No. 112,817**
**5 Claims. (Cl. 33—191)**

1. A device of the class described comprising a block having an opening formed therein, an elongated element slidably mounted within said opening, work-gripping jaws pivotally mounted on said element and adapted to be actuated from a normally gripping relation to a temporary non-gripping relation upon slidable movement of said element, means pivotally mounted on said block for effecting slidable movement of said element, a bracket mounted on said block and having a portion thereof extending above



and over said jaws, and a marking device slidably mounted on said extended bracket portion and having the axis of said marking device centered between the adjacent surfaces of said gripping members.

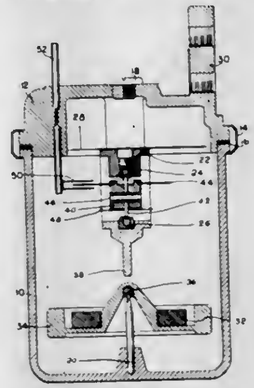


2,644,242
**WELL SURVEYING INSTRUMENT**
**John C. Hewitt, Jr., Long Beach, Calif.**
**Application February 28, 1949, Serial No. 78,713**
**9 Claims. (Cl. 33—205.5)**



1. A direction indicating instrument comprising a chamber containing a body of liquid, a translucent magnetically responsive float carried by the liquid between vertically spaced locations and having a translucent central portion at substantially its central vertical axis through which light may pass, said liquid forming a meniscus extending annularly about and radially spaced from the vertical axis of the float and engaging the float to center it in the chamber, a light source mounted stationarily at one of said locations, means directing light from said source vertically through the center of said annular meniscus and through said translucent vertical axial central portion of the float, means stationary with relation to said chamber and providing a reference marking normally and substantially in alinement with the float axis, and light sensitive means at the other of said locations for recording the float position with relation to said marking.

2,644,243
**CONTROL COMPASS**
**George E. Breeze and Russell I. Mason, Waterford, Conn., assignors to the United States of America as represented by the Secretary of the Navy**
**Application November 20, 1944, Serial No. 564,256**
**2 Claims. (Cl. 33—223)**

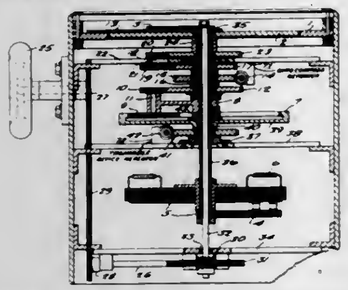


1. A sonic buoy comprising in combination a non-magnetic casing having an opening, a casing cover having an integral supporting lug thereon, clamp means for securing said casing cover to the opening of said casing, a vertical spindle secured to the bottom of said casing, a main compass magnet element pivotally supported by said vertical spindle, means for preventing said compass magnet element from movement off said vertical spindle, said means comprising a yoke supporting means integral with said casing cover and projecting within said casing to a point above said spindle, said yoke supporting means having facing vertically spaced bearings secured thereon, a follower compass element having oppositely facing vertical supporting spindles rotatably mounted in said facing vertically spaced bearings, said follower compass element comprising a hub portion, a follower magnet and a horizontal condenser rotor fixed to said hub portion, said horizontal condenser rotor being heart-shaped and having mirror symmetry relative to a plane containing the rotor axis and the point of maximum radius, a condenser stator comprising two vertically spaced horizontal arms electrically cooperating with said horizontal condenser rotor, and a vertical terminal post secured to said casing cover and fixedly supporting said condenser stator.

2,644,244
**ORIENTATION MECHANISM**
**Joseph Warren Horton, Ipswich, and Robert A. Wagner, Worcester, Mass., assignors to the United States of America as represented by the Secretary of the Navy**
**Application April 9, 1943, Serial No. 482,500**
**7 Claims. (Cl. 33—226)**

4. A control and indicating apparatus for use on a carrier having a trainable device and a compass, comprising a graduated scale, a movable element related to said scale to indicate the true bearing of said carrier, a second movable element related to said scale to indicate the true bearing of said device, a third movable element related to said scale, manual means to adjust said third movable element to indicate the desired bearing of said device, driving means gov-

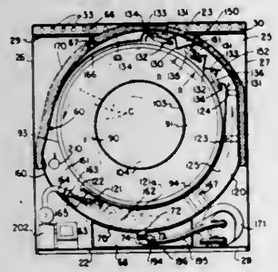
erned by said compass for controlling the adjustment of the first mentioned movable element, driving means governed by said trainable device, a differential mechanism governed by both of said driving means for controlling the



adjustment of said second movable element, and electrical means including a motor jointly controlled by said manual means and said differential mechanism to adjust the bearing of said device.

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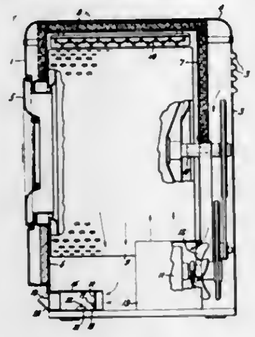
**2,644,245**
**CLOTHES DRIER**
**Kemper M. Hammell, Lombard, and Clifford E. Erickson, Chicago, Ill., assignors to General Electric Company, a corporation of New York**
**Application February 10, 1949, Serial No. 75,606**
**13 Claims. (Cl. 34—45)**



3. A clothes drying machine comprising a substantially horizontally disposed and rotatably mounted drum having a perforated wall and adapted to receive clothes to be dried, means including an electric motor for rotating said drum in order to tumble the contained clothes, means including a casing cooperating with said drum wall for defining a chamber therebetween, rotation of said drum in said casing forcing air into and out of said drum through the perforations in said wall at spaced-apart locations and into contact with the contained clothes and thence into said chamber, means including an electric heating unit for subjecting said air and the contained clothes to radiant heat in said drum, means including a spray device for cooling and scrubbing said air with a finely divided spray of cooling water in said chamber in order to condense moisture contained therein, a source of cooling water, means including an electro-responsive valve for controlling the connection of said spray device to said source of cooling water, means for draining said cooling water and condensate from said chamber to the exterior of said casing, a source of current supply, an electro-responsive cyclic operative timer, means for initiating a cycle of operation of said timer and for connecting said motor and said heating unit to said source of current supply, thermal responsive means governed in response to a predetermined temperature of said air passing into said chamber for controlling operation of said valve into its open position, means governed by said timer after a predetermined time interval for disconnecting said heating unit from said source of current supply, and means governed by said timer after an additional predetermined time interval for disconnecting said motor from said source of current supply and for controlling operation of said valve into its closed position.

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**2,644,246**
**CLOTHES DRIER LINT TRAP**
**John H. Robinson, Louisville, Ky., assignor to General Electric Company, a corporation of New York**
**Application December 27, 1951, Serial No. 263,594**
**2 Claims. (Cl. 34—55)**



1. In a clothes dryer, an electric air heater, an air discharge duct, an electric motor, a blower driven by the motor for effecting flow of air through said duct, a lint screen in said duct, means pivotally mounting the screen on an axis offset from a central axis of the screen and to one side of the plane of the screen whereby the screen is biased by its weight toward a position across the duct, a stop on a wall of the duct with which the screen engages to hold the screen in such position against such biasing force, and an electric control switch for said heater and motor positioned on a wall of said duct to be engaged by said screen when it turns on its mounting to a position where it extends longitudinally of the duct, said switch serving also as a stop to limit turning movement of the screen, whereby when said screen becomes clogged with lint it will be turned by the air flow to a position in engagement with said switch to operate the switch and permit air to pass over the screen to blow lint accumulation off the screen toward the duct outlet.

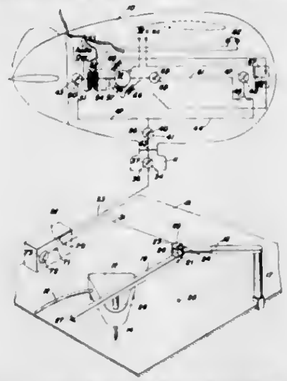
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**2,644,247**
**RADIO NAVIGATION TRAINER**
**Thomas P. James, United States Navy, Alameda, Calif.**
**Application January 10, 1946, Serial No. 640,290**
**6 Claims. (Cl. 35—10.2)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

3. Apparatus for training personnel in the use of radio navigation aids comprising a base, a carrier rotatably mounted on said base and adapted to carry a human operator, a first position transmitting device having a rotatable



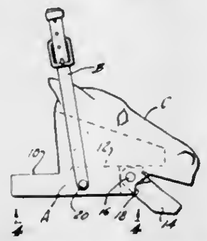
member, a first position receiving device having a rotatable member effective to assume a position corresponding to the position of the rotatable member of said first position transmitting device, a transformer having a first winding and a second winding, said windings being rotatable with respect to each other, signal producing means electrically connected to one of said windings and effective to energize said one winding, signal receiving means electrically connected to the other of said windings and effective to derive a signal therefrom, a second position transmitting device having a rotatable member, means



effective to rotate said first winding in accordance with rotation of the rotatable member of said first position receiving device, a motor having its shaft connected to said second winding and the rotatable member of said second position transmitting device, an energizing circuit for said motor, switch means in said circuit operable to effect rotation of said motor in either direction, and a second position receiving device having a rotatable member effective to assume a position corresponding to the position of the rotatable member of said second position transmitting device.

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**2,644,248**
**WALKING HORSE TOY**
**Miriam Seligman, Philadelphia, Pa.**
**Application March 30, 1950, Serial No. 152,809**
**3 Claims. (Cl. 36—7.5)**



1. A toy comprising a foot retaining block consisting of a heel rest and a sole rest substantially parallel with the base of said block, said block having a figure formed thereon; a movable member adapted to abut against said sole rest in order to provide a noise maker when the toy is raised from and lowered upon the floor; and an adjustable strap centrally attached to said block to hold the foot of the wearer against the said heel rest and the said sole rest of the said block.

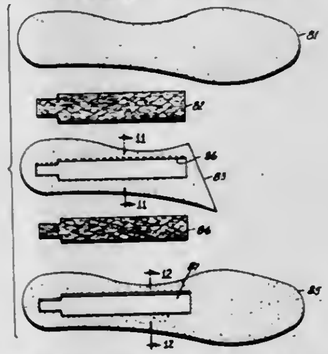
**2,644,249**
**FOOT AND SHOE PROTECTOR**
**William Stern, Philadelphia, Pa.**
**Application October 27, 1952, Serial No. 316,996**
**7 Claims. (Cl. 36—7.5)**



1. A safety guard for protecting the forepart of a shoe, said guard comprising a pair of shells each adapted to enclose substantially one-half of the forepart of the shoe with the meeting edges of said shells substantially coinciding with the median line of the instep of the shoe, said shells having longitudinally spaced opening near their meeting edges, and a flexible element engaging said openings for pulling the meeting edges of said shells toward each other.

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**2,644,250**
**LAMINATED SHOE SOLE**
**Joseph A. Ciaio, Corona, N. Y.**
**Application November 23, 1951, Serial No. 257,682**
**3 Claims. (Cl. 36—76)**



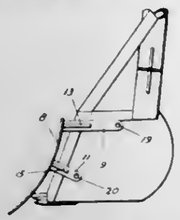
1. A shoe sole comprising a plurality of plies flat against each other and fastened to each other, a longitudinally extending cavity formed in said plies, fiberglass batting in said cavity, and a synthetic thermosetting resin filling said cavity and the interstices of said fiberglass batting to form a stiffening member for the shank of said sole.

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**2,644,251**
**BACK FILLING ATTACHMENT FOR POWER SHOVELS**
**Luke E. Smith, Denver, Colo., assignor to Quick-Way Truck Shovel Co., Denver, Colo., a corporation of Colorado**
**Application May 12, 1947, Serial No. 747,354**
**3 Claims. (Cl. 37—117.5)**

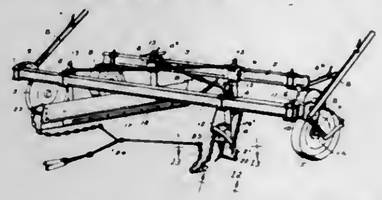
1. A back filling attachment for application to the toothed bucket of a power shovel to cover the open mouth of said bucket, comprising an elongated metal plate curved in its shortest dimension, means for removably mounting the plate directly upon the bucket and including spaced pairs of rigid arms extending from the convex face of said metal plate, each of said pairs of arms being spaced longitudinally of the plate for positioning outside but adjacent to the sides

of said bucket to embrace the forward portions of said sides, and gusset-like members attached to each of the arms and to said metal plate to hold the arms rigidly upon the plate and to stiffen the structure, said arms maintaining the plate rigidly in position upon the bucket in close proximity to the forward ends of the teeth thereof and against movement relative thereto.



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2,644,252
**LEVEE BUILDING MACHINE**
**Charles H. Brown, Breckenridge, Tex.**
**Application August 29, 1947, Serial No. 771,202**
**8 Claims. (Cl. 37—154)**

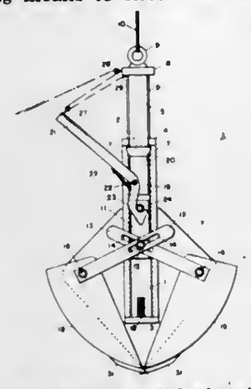


1. In a machine of the character described, the combination of frame bars, moldboards extending transversely of the bars, means mounting the moldboards on the bars, said mounting means including upright supports attached to the moldboards, brackets connected with the supports and forming journals therefor to permit adjustment of the moldboards to different angles relative to the frame bars, and wheeled supporting means connected with the frame bars separate from the moldboard mounting brackets, said brackets being adjustable lengthwise of the frame bars relative to the supporting means to vary the positions of the moldboards relative thereto, and means cooperating with said upright supports to adjust vertically the positions of the moldboard relative to said frame bars.

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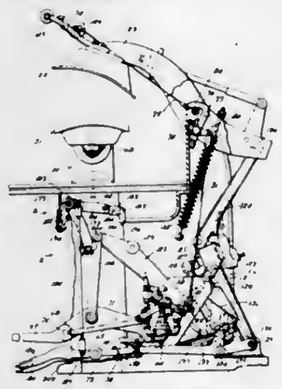
2,644,253
**HOIST SHOVEL**
**Juan Gutierrez Salido, Central Preston, Cuba**
**Application April 9, 1951, Serial No. 220,108**
**2 Claims. (Cl. 37—187)**

1. In a hoist shovel having a hoist cable, the combination therewith of a lifting frame suspendable therefrom and including a pair of upright slides on each side thereof, a main frame suspendable from said lifting frame and having a pair of upright posts receiving said slides in vertical travel therealong, a pair of sidewise plates carried by said posts and a pair of oscillatory bucket jaws pivoted to said plates, a pair of coupling shoes slidable along said posts, linkage means connecting said jaws with said shoes and actuable thereby to oscillate said jaws, an oscillatory latching frame carried by said lifting frame and engageable with said shoes to effect the elevation thereof in unitary movement with said lifting frame whereby to contract said jaws, means biasing said latching frame into normal engagement with said shoes, manually operable pull cable means associated with said latching frame for the pivotal retraction thereof against said biasing means to effect the release of said shoes for the descent thereof whereby to expand said jaws, and each of said plates forming an intermediate central wall portion complementing the side walls of the jaws adjacent thereto whereby to define with said jaw side walls a unitary bucket side wall.



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2,644,254
**GARMENT PRESSING MACHINE**
**Roy M. Schultz, Chicago, Ill., assignor to David A. Freeman, Chicago, Ill.**
**Application February 21, 1949, Serial No. 77,566**
**25 Claims. (Cl. 38—15)**

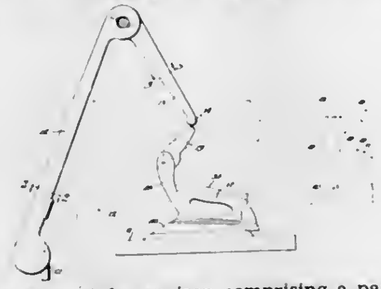


1. In a garment pressing machine the combination of a frame, a stationary pressing element mounted on said frame and over which a garment may be laid, a second pressing element rockably mounted on said frame for initial movement from a normally fully open position to a temporary rest position adjacent to but not in contact with said stationary pressing element, power means mounted on said frame and operable for actuating said second pressing element into pressing engagement with said stationary pressing element from said rest position and returning said second pressing element to said rest position subsequent to said pressing engagement, manually operated control means mounted on one of said pressing elements for operating said power means, automatic garment steaming means mounted on said frame and being operative when said second pressing element is in said rest position prior to said pressing engagement, automatic garment vacuuming means mounted on said frame and being operative when said second pressing element is in said rest position subsequent to said pressing engagement, and means mounted on said frame for releasing said second pressing element from said rest position to said normally open position; said automatic garment steaming means comprising a steam valve mounted on said frame and an adjustable bell crank lever pivotally mounted on said frame and having one leg thereof operatively connected to said steam valve and the other leg thereof provided with a trip lever, said trip lever being actuated only by the initial movement of said second pressing element to said rest position; said automatic garment vacuuming means comprising a vacuum valve mounted on said frame and a second adjustable bell crank lever pivotally mounted on said frame and having one leg thereof operatively connected to said vacuum valve and the other leg thereof provided with a trip lever, said second trip lever being actuated only upon movement of said second pressing element from said pressing engagement to said rest position.



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2,644,255
**IRON SUPPORTING LINKAGE**
**Edwin E. Foster, Austin, Tex., assignor to Majik-Ironers, Inc., Austin, Tex., a corporation of Texas**
**Application March 22, 1951, Serial No. 217,026**
**17 Claims. (Cl. 38—30)**

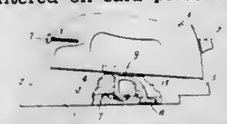


1. A support for an iron comprising a pair of arm members pivotally interconnected at one end, one of the members being formed at its other end for connection to an iron, means at the other end of the other member for connection to a support to support the members and the iron above an ironing board, a spring connected to the members urging them in a direction about their pivotal interconnection to raise the iron and means acting on the members to make the spring ineffective when the members are moved in a direction to lower the iron and a releasable latch carried by one of the members controlling the last named means.

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2,644,256
**RETRACTABLE STAND FOR FLATIRONS**
**Frank E. Finlayson, Ontario, Calif., assignor to General Electric Company, a corporation of New York**
**Application December 31, 1949, Serial No. 136,244**
**5 Claims. (Cl. 38—79)**

1. In an iron of the type having a soleplate, a soleplate cover forming a chamber above the soleplate, and a heel rest at the rear end of the soleplate, a gravity actuated support for said iron for holding it at a slight angle above a horizontal supporting surface, comprising a pair of legs, a common pivot for the legs with an axis extending transversely of the iron above said soleplate under said cover, a substantially radial portion on each leg extending normally from said common pivot axis under said cover, an arcuate portion on each leg connected to the radial portion thereof and curved in a portion of a circle centered on said pivot axis, said soleplate having a pair of holes therein through which said arcuate portions may swing when said legs are moved about the common pivot, a counterweight secured to the radial portion of each leg for moving said legs by gravity pivotally to extended position below said soleplate when the iron is tilted downwardly at its rear end and to retracted position within said chamber when said iron is parallel to said supporting surface, and an L-shaped end on the arcuate portion of each leg, said legs when extended and said heel rest constituting the support for the iron.



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2,644,257
**IRONING BOARD COVER**
**Gertrude M. Emmett and Milton W. Emmett, Los Angeles, Calif.**
**Application December 26, 1950, Serial No. 202,766**
**1 Claim. (Cl. 38—140)**



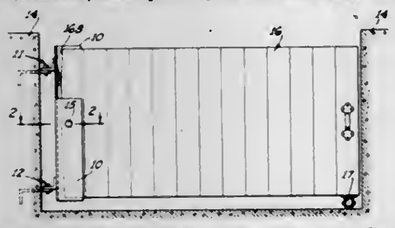
A cover for ironing boards comprising: a section of fabric adapted to overlie the top and edges of an ironing board and formed at one end on each side thereof with angular extensions presenting overlapping sections with inner margins thereof disposed diagonally and providing a pocket to receive the foot of said board, said overlapping portions being permanently sewed together, and a transverse section of elastic fabric extended transversely in the plane of said overlapping sections at the other end of the cover and secured to end marginal portions of said cover section, said transverse elastic section forming a pocket to receive the head of said board, and short marginal sections of elastic fabric extending along marginal continuations of the overlapping sections of said fabric cover, each secured at one end to the corresponding marginal continuation of one of said overlapping sections and at its other end to the transverse elastic fabric section.

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2,644,258
**HINGE AND GATE CONSTRUCTION**
**Edwin Gillette, Los Angeles, Calif.**
**Application December 11, 1950, Serial No. 200,230**
**7 Claims. (Cl. 39—82)**

1. In a gate construction of the character described, a gate element, an elongated channel

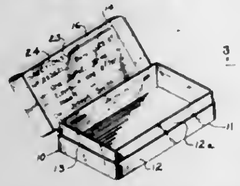
iron extending vertically substantially the full height of said gate element with the inner end of the gate element disposed in said channel iron, hinge means mounted on said channel iron, a single pivot pin passing through alined apertured portions in the parallel extended plates of said channel iron and an apertured portion in said gate element, said pivot pin extending generally



horizontally, and a caster mounted on the free end of said gate element, the inner walls of said channel member being spaced from said inner gate end to permit pivoting of said gate about said pivot pin with said extended plates serving as a stop and preventing undue pivoting movement of said gate element about an axis which passes radially through said pivot pin.

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**2,644,259**
**BOX FOR PHARMACEUTICAL PREPARATIONS**
**Eugene E. Beadle, Waterbury, Conn.**
**Application June 14, 1949, Serial No. 99,059**
**2 Claims. (Cl. 40—7)**

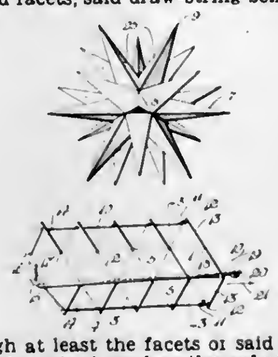


1. A box designed for use with pharmaceutical prescriptions comprising interfitted body and cover members, said cover number comprising a completely closed top and side walls and being made of a clear transparent molded product, a label dimensioned to fit into the inside of said cover against the inner face of said top, opposed nub-like projections formed on the inner surface of two opposite cover walls adjacent said top and in spaced relationship, and a transparent flat plate of flexible material fitted into said cover against the inside of the closed top, the opposite longitudinal edges of said plate having detachable locking engagement over said nub-like projections on said cover walls for holding said label in flat assembled position against the inner surface of said top, said flat plate being provided with a cut-out in one edge to facilitate the removal of said plate.

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**2,644,260**
**DECORATION FOR CHRISTMAS TREES**
**John L. Woolven, St. Vital, Manitoba, Canada**
**Application September 3, 1949, Serial No. 113,962**
**9 Claims. (Cl. 41—11)**

1. A decoration for Christmas trees comprising in combination a plurality of facets connected together to form a substantially planar, integral, articulated base panel when in the open position and capable of being folded to form substantially a polyhedron, a draw-string secured to one of said facets, said draw-string being thread-



ed through at least the facets of said base panel adjacent the outer boundary thereof when viewed in the open position, to fold and maintain said base panel to the said polyhedral configuration.

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**2,644,261**
**METHOD OF REVIVING PICTURES AND THE RESULTANT ARTICLES**
**Paul C. Goetz, Omaha, Nebr., assignor of one-half to Carlos Cudell Goetz, New York, N. Y.**
**No Drawing. Application December 27, 1948, Serial No. 67,545**
**6 Claims. (Cl. 41—27)**

1. In combination, a surface comprising a pictorial representation formed from pigments and pigmented photographic emulsions, and a colorless, transparent, non-glaring, uniform and inert coating for said surface to preserve said representation against atmospheric conditions and to improve the clarity thereof, said coating consisting of a homogeneous layer of a member selected from the group consisting of cetyl alcohol, octadecanol and octadecandiol, a varnish and a common solvent therefor, said solvent being common to said varnish and alcohol, the proportion of the alcohol to the varnish being one part alcohol to a selective range of 4 to 15 parts varnish.

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**2,644,262**
**APPLYING DECORATIVE DESIGN TO LEATHER**
**Andrew A. Schoenberg, Philadelphia, and John V. Hastings III, Gladywne, Pa.**
**Application January 24, 1950, Serial No. 140,197**
**15 Claims. (Cl. 41—37)**



1. The process of applying a decorative design to leather consisting of placing a stencil over a piece of leather, placing on said stencil a combination sheet comprising a support material, an adhesive layer and a thin layer of metal between said support material and adhesive, said adhesive comprising butadiene acrylo nitrile and phenol formaldehyde resin, placing said combination sheet with the adhesive layer next the stencil, applying pressure to the support layer, releasing said pressure, and removing said support material and said stencil from the leather.



**2,644,263**
**FISHING DEVICE**
**Rufus V. Allen, Chino, Calif.**
**Application January 31, 1951, Serial No. 208,702**
**2 Claims. (Cl. 43—27.4)**



1. A fishing device comprising a plurality of elongated wire links having terminal eyes, convoluted rings engaging and joining the eyes of adjacent links, and a hook carried by each ring, said plurality of wire links including an end pair of links, a pair of coil springs having inner ends attached to the end links, and anchoring prongs secured to the outer ends of said coil springs, said coil springs being adapted to spring said hooks in response to striking of said hooks by fish.

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**2,644,264**
**FISHHOOK**
**William H. Heki, Lynnville, Iowa, assignor of one-half to Leonard Verwers, Pella, Iowa**
**Application March 16, 1950, Serial No. 150,037**
**1 Claim. (Cl. 43—36)**



A fish hook formed of spring wire having a convolution intermediate the ends thereof defining an eye for the attachment of a leader, the portions on opposite sides of the eye constituting shanks having bights at the free ends thereof terminating in points, said shanks adapted to assume open and closed conditions, the bights of the shanks lying in planes at an obtuse angle to the respective shanks, the planes of each bight being at an acute angle to each other when the shanks are in a closed position in overlapping relation, locking means being provided for releasably holding said shanks in closed condition, each of the points of said bights under the latter condition extending upwardly at an acute angle to the plane of the eye and outwardly in opposite directions, the bights defining with the shanks a substantially ring-like opening having an axis normal to the plane of the eye, whereby a bait having its material extending through the ring-like opening will be held with substantially equal force by each shank and bight portion.

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**2,644,265**
**FISH LURE**
**Anton Stettner, Corpus Christi, Tex.**
**Application October 16, 1947, Serial No. 780,169**
**1 Claim. (Cl. 43—42.06)**



In a fishing lure having a one-piece body including a head portion and a rearwardly and downwardly inclined tail portion having hollow interior, the forwardly facing wall of the downwardly and rearwardly inclined tail portion having an inlet opening communicating with the front end of the hollow tail portion, the bottom end of the inclined tail portion having a discharge opening, a weight mounted laterally through the body forward of the hollow tail portion, and means for securing the end of a line to the body substantially directly over said weight, so constructed and arranged that as the body is drawn through water said weight will hold the front end of the body down and water will enter said inlet opening and flow through the hollow and discharge from said discharge opening producing a swimming snap in the tail portion with the body pivoting horizontally about its point of attachment to the line, said weight being metallic and having its ends exposed on opposite sides of the body simulating eyes.

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**2,644,266**
**FISHING LINE SINKER**
**Lawrence F. Updegrove, Alice, Tex.**
**Application July 18, 1952, Serial No. 299,669**
**1 Claim. (Cl. 43—44.96)**



A fishing line sinker comprising a body of substantially triangular shape having a base end which is of elongated rectangular shape with a shallow groove extending longitudinally and symmetrically of the width thereof and flat areas disposed between the opposite edges of said groove and the corresponding side edges of said base, said body having top and bottom faces which are concavely curved in a direction away from the corresponding side edges of said base end so that the portions of said body adjacent said side edges project substantially laterally from the remainder of the body and constitute blade formations tapering in thickness transversely of the thickness of said body to an acute condition along the corresponding side edges of said base end, and a line attaching eye projecting from said body substantially at the center of the base end thereof.

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**2,644,267**
**FISH HOLDER FOR FISHHOOK REMOVAL**
**Thomas O. Helgeson, Milwaukee, Wis.**
**Application February 2, 1952, Serial No. 269,673**
**10 Claims. (Cl. 43—53.5)**



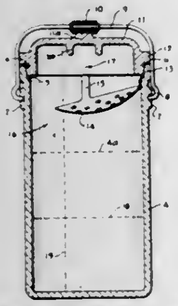
1. A fish handling tool comprising a hand lever having a handle portion adjacent one end of the tool and a fulcrum portion at the other end of the tool and adapted for external fish jaw engagement, supporting means on said lever and a reversely extending hook on said supporting means and spaced rearwardly and upwardly from said fulcrum portion, said hook comprising means for engaging the lower jaw of the fish internally behind the teeth thereof, the flexing of the fish over the fulcrum portion when lifted by the tool acting to force the fish's mouth open and to immobilize the fish.

**2,644,268**
**FISHHOOK EXTRACTOR**
**Anthony S. Klinicki, Detroit, Mich.**
**Application August 13, 1952, Serial No. 304,199**
**3 Claims. (Cl. 43—53.5)**



3. A device for extracting fish hooks from fish, comprising a tubular body having a tapered end adapted to be held in engagement with the fish adjacent to the hook being extracted, a fish hook guard member pivotally mounted within the tapered end of the tubular body, and an inner tubular member mounted for rotation within the tubular body, said tubular body and inner tubular member having longitudinal slots in the wall thereof through which a fishing line carrying a hook to be extracted is passed into the interior of the tubular body, whereby the fishing line when pulled through the tubular body will extract the fish hook from the fish, moving the hook against said fish hook guard member and holding the hook in a guarded position within one end of the tubular body.

**2,644,269**
**LIVE BAIT CONTAINER**
**James E. Ormesher, Valentine, Nebr.**
**Application November 5, 1948, Serial No. 58,440**
**7 Claims. (Cl. 43—55)**



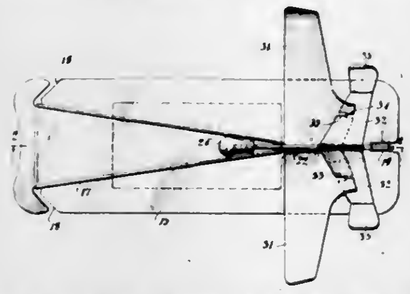
1. A live minnow container having a closure adapted to hermetically seal said container, and a sieve element disposed transversely across said container below but adjacent to said closure to define a trapping chamber between said closure and sieve element with a passage into said trapping chamber from the container below, said container being adapted to be inverted to permit minnows to swim into said trapping chamber and then restored to its original position to drain the trapped minnows upon said sieve element in position to be removed upon removal of said closure.

**2,644,270**
**BALL AND RUNWAY TOY**
**Michael P. Marong, Warsaw, N. Y.**
**Application November 7, 1949, Serial No. 125,956**
**3 Claims. (Cl. 46—43)**



1. A toy comprising a ball, an annular hollow runway member for the ball in which said ball is visible and for manipulation with a circular motion to cause said ball to roll around the member and be retained therein under the action of centrifugal force, and a handle on said member for manipulating the same, said member being substantially tubular with circumferential notches spaced around the inner circumferential portion thereof providing for flash visibility of the ball as it rolls around said member.

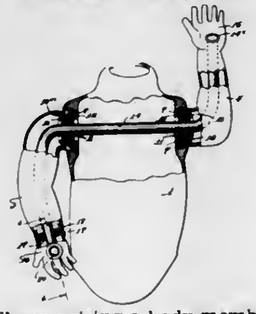
**2,644,271**
**TOY GLIDER AND LAUNCHING PLATFORM**
**William J. Shapiro, Brooklyn, N. Y.**
**Application May 29, 1947, Serial No. 751,437**
**32 Claims. (Cl. 46—81)**



16. A toy glider of sheet material such as heavy paper or cardbord and a launching means combination comprising a launching platform having projecting means at one end and a holding slot at the other end, a glider having a fuselage, the fuselage having a lower edge, a wing attached to the fuselage extending outwardly from each side thereof, means extending laterally outwardly from each side of the fuselage upon a substantially horizontal axis at a point spaced vertically with respect to the point of attachment of the wings thereto, interlocking means carried by each means and by the wings spaced from the attachment thereof with the fuselage to lock the means and wings in laterally extending position, a notch upon the fuselage to receive the projecting means, a retaining notch carried by the fuselage rearwardly of the notch for the projecting means and upon the underside thereof extending below the lower edge of the fuselage, the retaining notch being received in the slot in the platform and engaging the end thereof to hold the glider upon the platform with the projecting means charged ready for projecting the glider, and an inclined extension extending downwardly from the retaining notch below the launching platform.



**2,644,272**
**DRINKING DOLL WITH MOVABLE MEMBERS**
**Irwin Cohn, Leominster, Mass.**
**Application April 5, 1949, Serial No. 85,523**
**3 Claims. (Cl. 46—141)**



1. A doll comprising a body member, two arms and an apertured hand carried by each arm, a first ring member secured to the doll body at the shoulder, a second ring member secured to the upper extremity of the arms, a shoulder rivet having a head flange and adapted to secure the first ring member to the second ring member, said first ring member having an inwardly disposed shoulder in the opening of the ring for rotatably grasping the turned-over end of said shoulder rivet, said second ring member having an inwardly disposed shoulder at its opening to receive the head flange of said shoulder rivet, said second ring member being provided with a circular groove to receive the upper end of the doll arm, a spiral spring disposed between said first ring member and said second ring member, said first and said second ring members being provided with longitudinal apertures to receive the ends of said spiral spring, inwardly projecting nipples in each hand, at least one arm being provided with a flanged hand disc, a flanged lower arm disc secured to the extremity of the lower arm, a tubular wrist rivet having upturned flanged ends and adapted to secure the flanges of said hand disc and said lower arm disc for rotational movement of said hand, and a flexible tube joining the apertures of each hand and passing through the openings of the ring members in both shoulders of said doll.

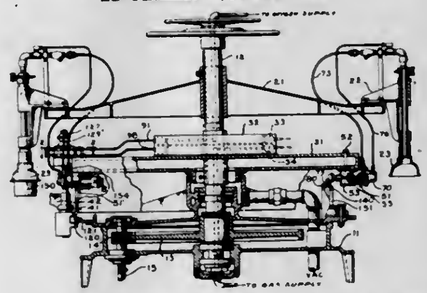
**2,644,273**
**ANIMATED MOTOR ACTUATED WALKING DOLL**
**Anthony Romano, New Haven, Conn., assignor, by direct and mesne assignments, to The Blinking Doll Enterprises, Incorporated, New Haven, Conn., a corporation of Connecticut**
**Application April 18, 1951, Serial No. 221,563**
**5 Claims. (Cl. 46—150)**

1. In an animated walking doll which includes a motor operated crankshaft, a movable head case, means connected to said crankshaft and said case for oscillating said head case, a pair of eye members mounted for rocking movement in said head case, and a pair of oscillatable supporting legs connected to the crankshaft to be actuated thereby, a rocker connected with said eye members, a link connected at one end to said crankshaft, and means at the opposite end of said link and arranged to impart movement to said rocker in response to operation of said



crankshaft, the last mentioned means comprising a crank provided at the extremity of said link which is slidingly contacted by said rocker, a counterweight fixed to the outer end of said rocker and extending laterally of said rocker, said counterweight being arranged to operate said rocker in response to tilting said head case, and said counterweight constituting a stop for said crank preventing said crank from separating from said rocker.

**2,644,274**
**BURN-OFF MACHINE**
**Thomas W. Bailey, Hammondsport, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York**
**Application May 7, 1949, Serial No. 91,915**
**11 Claims. (Cl. 49—50)**



3. In an article-handling system, a vacuum article chuck, means providing a path of travel for said chuck through at least two zones, a vacuum line to said chuck, a normally closed valve in said vacuum line, means for opening said valve when said chuck enters the first of said zones and for holding said valve open only while the chuck is passing through such zone, and pneumatic means for continuing to hold said valve open through the second of said zones, independently of said valve-opening means, when

an article is engaged by said chuck, said pneumatic means including a diaphragm associated with said valve and adapted to be moved from a normal to an operated position when said valve is opened, said diaphragm constituting one wall of a negative pressure chamber, and a branch vacuum line extending between said chamber and said first vacuum line between the article chuck and the valve.

4. In an article-treating machine, a rotary turret, a vacuum chuck carried by said turret, a vacuum line to said chuck, a line for supplying fluid in the treatment of an article engaged by said chuck and including a valve, a normally disabled mechanical means for actuating said valve, and means connected to said vacuum line operated by the creation of a negative pressure when an article is engaged by said chuck to enable said mechanical means to effectively function.

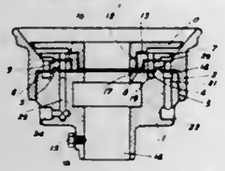
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2,644,275

**WATER CURTAIN PROJECTING DEVICE FOR USE WITH SAND BLASTING APPARATUS**

**Jules Hoguet, Brest, France, assignor to Societe E. C. T. A. (Societe d'Entreprise de Construction et de Travaux d'Art), Paris, France, a corporation of France**

**Application April 7, 1950, Serial No. 154,592**
**In France April 11, 1949**
**7 Claims. (Cl. 51—8)**



5. A device for preventing the dispersion of fine dry particles away from the working end of a tool, which comprises a spray unit securable to the end of the tool providing a relatively thin, annular frusto-conical passage diverging outwardly in the direction of the discharge end of said tool, means defining a thin, annular passage communicating with said frusto-conical passage inwardly of the discharge end of said tool, means for supplying water to said second-named passage to provide a thin layer of water lying in a plane substantially at right angles to the axis of said tool and means for supplying air under positive pressure to said first-named passage, whereby to provide a thin, annular curtain of air moving past said second passage to project a thin, annular curtain of air containing particles of water suspended therein diverging outwardly from the discharge end of said tool.

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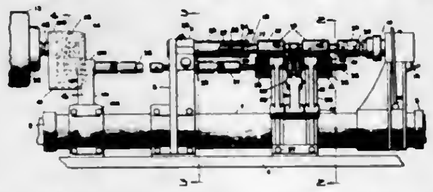
2,644,276

**BUFFING MACHINE FOR DRAWING ROLLS**

**Kenneth P. Swanson, Abington, Mass., assignor, by mesne assignments, to Textile Engineering Corporation, Whitman, Mass., a corporation of Massachusetts**

**Application March 16, 1950, Serial No. 149,979**
**10 Claims. (Cl. 51—95)**

1. A buffing machine for drawing rolls having in combination a grinding wheel, centers supporting the roll in contact with the grinding wheel with capacity for movement lengthwise of the latter's axis with its own axis ever parallel to such axis, and roller means rotating the bosses of the roll by frictional contact therewith effected by radial pressure against the bosses at right angles to the radius of the grinding wheel at the roll's point of contact with the latter, such



roller means being free to vary the angle of its axis to that of the top roll.

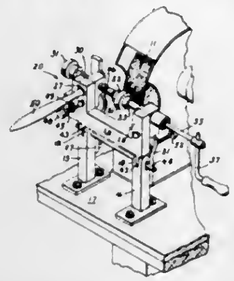
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2,644,277

**MACHINE FOR PREPARING TEST SAMPLES OF RUBBER AND THE LIKE MATERIAL**

**Clarence K. Chatten, Jackson Heights, N. Y.**

**Application April 19, 1951, Serial No. 221,909**
**3 Claims. (Cl. 51—105)**



3. A workholder comprising a bracket, a first shaft rotatably mounted in said bracket, means restraining said shaft from axial movement, a first disc-shaped abutment head fixedly mounted on the end of said first shaft, the face of the disc being substantially perpendicular to the first-shaft axis, a second shaft in axial alignment with said first shaft and mounted in said bracket for axial adjustment, said second shaft being normally nonrotatable when said first shaft rotates, locking means for selectively locking said second shaft to said bracket to prevent rotation and axial movement thereof, and a second disc-shaped abutment head rotatably mounted on said second shaft in opposed relation to said first abutment head, the face of said disc being substantially perpendicular to the second-shaft axis.

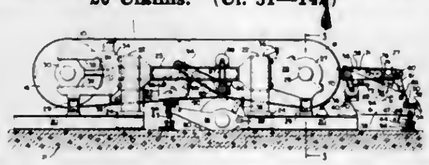
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2,644,278

**ENDLESS BAND GRINDING MACHINE**

**Don F. Collins, Pontiac, Mich., and George E. Apel, Belmont, and Richard W. Fuller, Wayland, Mass., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts**

**Application September 10, 1952, Serial No. 308,822**
**20 Claims. (Cl. 51—142)**



1. In a machine of the class described, the combination of a base, a cantilever frame mounted on one side of the base and extending transversely thereacross above and in spaced relation from the base, a cylindrical drum disposed above the base laterally of and along the frame, bearings rotatably supporting the drum at its two ends, a bracket carried on the free end of the frame and supporting the adjacent bearing, and a removable block mounted on the base beneath said adjacent bearing and cooperating with the frame and bracket to support the bearing, the drum being adapted to support one loop end of an endless band having its lower reach passing through the gap between the frame and base and the removable block permitting removal of the band from the drum.



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2,644,279

**MOUNTING APPARATUS FOR SHARPENING TOOLS, BLADES, AND THE LIKE**

**George Peter Stankovich, Minneapolis, Minn.**

**Application August 24, 1950, Serial No. 181,168**
**4 Claims. (Cl. 51—157)**



1. A hair clipper sharpening device comprising a guideway, an abrasive mounted adjacent said guideway, a carriage frame mounted on said guideway for reciprocating movement relative thereto, at least a portion of said frame being tiltable relative to said guideway in a vertical plane extending parallel to the line of said movement, measuring means for accurately indicating the extent to which said portion of said frame is tilted, a carriage arm mounted on the tiltable portion of said frame and extending therefrom and depending clamping means carried by one of the end portions of said arm for releasably securing thereto the blade of the hair clipper in registering relation with said abrasive during said reciprocal movement, said clamping means being rotatable on a substantial horizontal axis whereby said blade may be oriented in flat registering relation with said abrasive regardless of the thickness of said blade and including a pair of end-engaging clamp elements adapted to engage the blade by inward pressure upon its ends.

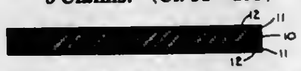
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2,644,280

**SANDING DISK ACCESSORY**

**Joseph R. O'Neil, Jr., Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware**

**Application September 13, 1950, Serial No. 184,613**
**5 Claims. (Cl. 51—195)**



4. A sanding disc accessory comprising a circular composite pad comprising a main body portion of foam rubber faced on at least one side with a relatively thin, tough layer of material having a Shore durometer reading substantially higher than that for the main body portion of the pad and a toughness substantially in excess of that of the skin of a molded foam rubber body, and having a layer of pressure-sensitive adhesive on at least that side of the pad having the tough facing layer, said pressure-sensitive adhesive coated surface being protected from the accretion of dust and dirt by the attachment thereon of a removable layer of thin protective sheet material.

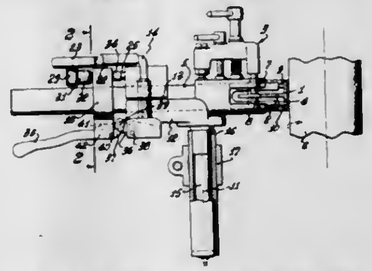
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2,644,281

**GRINDER MECHANISM FOR CLEANING BRAKE SHOES**

**Hjalmar Thomason, Los Angeles, Calif.**

**Application December 27, 1949, Serial No. 135,227**
**2 Claims. (Cl. 51—217)**



1. In a mechanism of the character described: a brake shoe holder; a spindle upon which the holder is mounted; a guide member in which said spindle is longitudinally movable; a standard member secured to said spindle and movable therewith; a post extending substantially parallel to the direction of guided movement of said spindle; means mounting said post on one of said members for adjustment in a direction substantially parallel to the direction of guided movement of said spindle; said post having a pair of longitudinally spaced abutments, between which the other of said members is movable; resilient means engaging one of said abutments and said other member for urging said members in one limiting relative position; and a lever operated linkage connecting said members and pivotally adjustable for moving said members in the other limiting relative position.

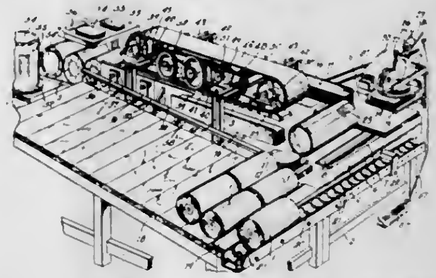
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2,644,282

**MACHINE FOR WRAPPING ROLLS OF PAPER AND THE LIKE**

**Stuart Irvine, Kalamazoo, Mich.**

**Application January 16, 1947, Serial No. 722,401**
**8 Claims. (Cl. 53—64)**

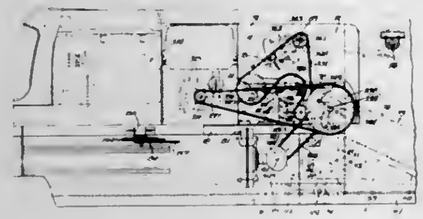


1. In a wrapping machine, the combination with a supporting frame including longitudinally slotted cross members, a bed supported by said frame, said slotted cross members being disposed transversely of said bed and vertically spaced therefrom, folder units disposed beneath said cross members and longitudinally of the bed and in laterally spaced relation to each other to permit a roll to be wrapped to be rolled between them, a feed belt supporting frame comprising a pair of bars disposed longitudinally of the bed, belt supporting rollers carried by said bars, plates adjustably mounted on said supporting frame slotted cross members for adjustment longitudinally thereof and transversely of the bed to

adjust said belt supporting frame centrally between said laterally spaced folder units, hanger rods for said feed belt supporting frame disposed through said plates and through the slots of said supporting frame cross members, nuts on said rods and above said plates to be supported thereby and provided with sprockets, a sprocket chain connecting said sprockets for simultaneously adjusting said nuts, pulleys carried by said feed belt supporting frame, a belt trained on said pulleys, said rods extending loosely through said plates and the slots of said cross members to permit said belt supporting frame to be floatingly supported on the rolls to be wrapped as they pass beneath the belt, the bottom reach of the belt being supported on said pulleys and being supported against upward displacement by said rollers, and a driving motor for one of said belt pulleys carried by said feed belt supporting frame.

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**2,644,283**
**HYDRAULIC PICKUP BALER**
**Clifford R. Rogers, Henry H. Kolzing, and John L. Heinlein, Shelbyville, Ill., assignors to The Oliver Corporation, a corporation of Delaware**
**Application June 5, 1948, Serial No. 31,308**
**24 Claims. (Cl. 56—10)**

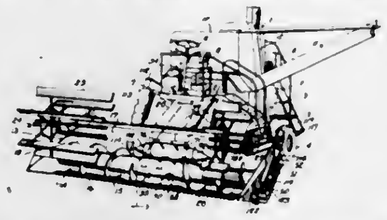


1. A pick-up baler comprising a main frame, a longitudinally extending baling chamber frame having a baling chamber therein and mounted on said main frame, a forwardly diverging gathering frame secured to said chamber frame, transversely extending and horizontally spaced apart compression rollers positioned above said chamber for receiving the material to be baled from said gathering frame and for forcing said material into said chamber and oppositely disposed yielding means positioned below and adjacent the periphery of said rollers for temporarily accumulating the material therebetween.

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**2,644,284**
**SELF-PROPELLED COMBINE**
**Lester E. Oberholtz and Gene Allen, Independence, Mo., assignors to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware**
**Application October 18, 1950, Serial No. 190,854**
**1 Claim. (Cl. 56—21)**

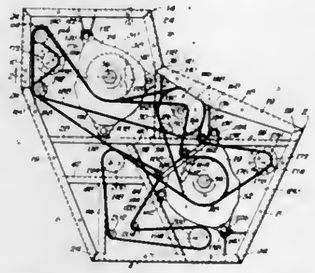
In a self propelled combine having a wheel supported separator housing and a separator mechanism therein, said separator housing having an inlet opening in the forward portion thereof, a thresher housing pivotally mounted on the forward portion of the separator housing for vertical swinging movement about a horizontal axis, said thresher housing having a discharge opening registering with the opening in the separator housing and extending forwardly and downwardly therefrom, a harvester unit including a cutter carried by the forward end of the thresher housing, a spiral conveyor in the harvester unit for moving cut grain laterally to a point in longitudinal registry with the thresher housing, a threshing cylinder in the thresher housing rearwardly of the harvesting unit, direction changing



means on the spiral conveyor for directing cut grain toward the threshing cylinder, and a rotary feeder between the direction changing means and the threshing cylinder for picking up and discharging the cut grain directly to the threshing cylinder.

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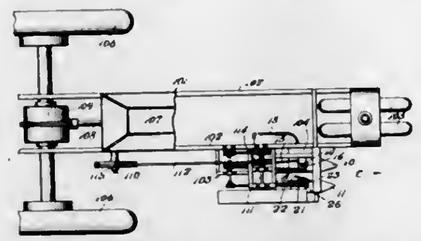
**2,644,285**
**COTTON PICKER MECHANISM HOUSING STRUCTURE**
**Paul J. Hulseberg and Charles W. Roehm, Memphis, Tenn., assignors to International Harvester Company, a corporation of New Jersey**
**Application March 1, 1951, Serial No. 213,452**
**2 Claims. (Cl. 56—41)**



1. A cotton picker framework comprising a polygonal shell lying in a single plane, a frame disposed within the shell comprising a main beam member connected at opposite ends to opposite sides of said shell, a pair of oppositely extending struts at opposite sides of said main beam member projecting angularly therefrom and connected at one end thereto in an area intermediate its ends and at the opposite end to an opposed portion of the shell thus forming quadrants in said shell, reaction elements disposed in diagonally opposed quadrants between said main beam member and an adjacent strut and the shell and connected therewith, each element having an opening therethrough, an upright cotton picker mechanism beneath each element, each mechanism comprising an upright shaft projected through said opening in the associated element, bearing means about each shaft intermediate its ends and carried on the related element within the opening therein in a region substantially in the horizontal plane of said frame, each shaft having an upper end projecting above said frame, sprocket means connected to the upper end of the shaft, drive transmitting means operably associated with said sprocket means, each shaft having a lower end terminated immediately below the frame, and picker drum carriers connected to the lower ends of respective shafts.



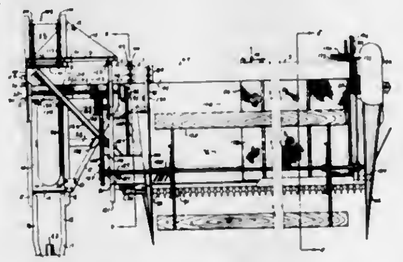
**2,644,286**
**COTTON PICKING MACHINE**
**John L. Nisbet, San Angelo, Tex.**
**Application March 15, 1951, Serial No. 215,729**
**3 Claims. (Cl. 56—48)**



1. In a cotton picking machine adapted to pass lengthwise along a row of growing plants, said machine having a plant passage extending lengthwise therethrough through which plants of a row are adapted to pass as the machine is moved along the row, and having a cotton transfer passage intersecting the plant passage, a rotary toothed picker located at the inlet of the transfer passage adjacent the plant passage from said picker unit having a blower nozzle outlet arranged to direct an air blast transversely of the plant passage for blowing bolls of cotton against the picker unit; the improvement wherein mechanical means are provided to assist the air blast in presenting the bolls to the picker unit comprising a series of vertically spaced fingers mounted on the same side of the air passage as the air blast nozzle outlet, and extending in a rearwardly inclined direction partially across the plant passage, and means for periodically imparting a sudden kicking movement to the fingers for agitating and loosening the cotton in the bolls.

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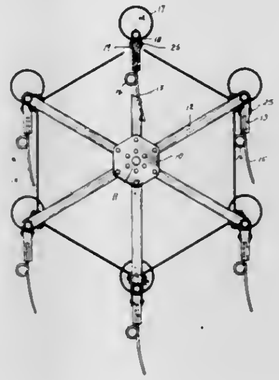
**2,644,287**
**DETACHABLY MOUNTED COUNTER-BALANCED WINDROWER**
**Lester E. Oberholtz, Independence, Mo., assignor to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware**
**Application December 15, 1948, Serial No. 65,307**
**8 Claims. (Cl. 56—192)**



1. A machine of the character described including a main frame, a main wheel carrying the main frame, a tongue connected with the main frame for connection with a draft vehicle, a countershaft extending transversely of the main frame at the rear of the main wheel, a pivot frame including posts having lower ends pivotally supported on the countershaft and having upwardly extending opposite ends, a spine member connecting the upper ends of the posts, a spine member forming a continuation of the spine member of the pivot frame, post members having lower ends depending from the last-named spine member, a draper frame having a rear transverse member connected with lower ends of said depending post members and having a forward transverse member, tension members connecting said last-named spine member with the forward transverse member, arms connecting lower ends of the depending posts with the forward transverse member, a grain wheel supporting the draper frame remote from the main wheel, and diagonal members connecting the forward transverse member of the draper frame with the pivot frame and cooperating with said last-named spine member to space the draper frame from the main frame and provide a discharge opening therebetween through which a windrow is adapted to be deposited by said draper.

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**2,644,288**
**HARVESTER REEL**
**Marcus D. Henthorn, Roachdale, Ind.**
**Application September 2, 1950, Serial No. 182,999**
**1 Claim. (Cl. 56—220)**



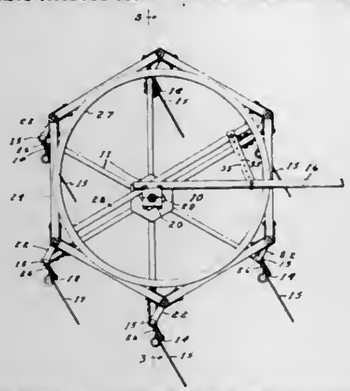
In combination with a harvester reel having a bat rotatably supported at its upper edge in said reel; of a tubular member having a slit in one side thereof extending throughout the length of said member receiving and enclosing the upper edge of said bat, flanges projecting outwardly in parallelism from the edges of said member defining said slit in engagement with both sides of said bat, and securing means connecting said flanges to said bat.

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**2,644,289**
**HARVESTER REEL**
**Horace D. Hume, Mendota, Ill.**
**Application October 31, 1949, Serial No. 124,600**
**6 Claims. (Cl. 56—226)**

1. The combination with a rotary reel, a series of tines thereon capable of a supplemental movement, and carrier arms supporting said reel, of a circular channel member secured on one of said arms with its axis eccentric to the reel axis, a

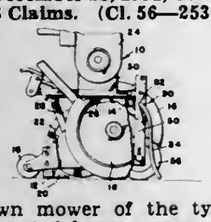
polygonal frame having the intermediate portions of the sides thereof seated in the channel member



to rotate thereon and crank arms connecting the frame and said series of tines.

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**2,644,290**
**AUXILIARY ROLLER FOR LAWN MOWERS**
**Robert L. Andrew, Elmira, N. Y.**
**Application December 28, 1951, Serial No. 263,729**
**8 Claims. (Cl. 56—253)**

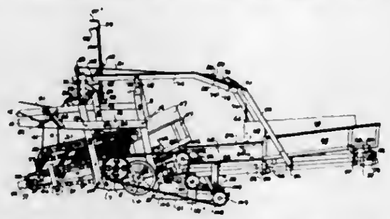


1. In a lawn mower of the type which includes an elongated frame, grass cutting mechanism carried by the frame intermediate the ends thereof, ground wheels carried by the frame adjacent opposite ends thereof for rotation in contact with the ground about a common axis, and a ground roller carried by the frame for rotation in contact with the ground about an axis spaced from and parallel with the common axis, means for supporting the cutting mechanism in grass cutting position when a ground wheel fails to contact the ground comprising an elongated bar carried by the frame above the cutting mechanism and in perpendicular relation to the common axis, a leg pivotally carried by the bar for movement in an arcuate path about an axis which lies parallel to the common axis, a ground contacting wheel carried by the leg for movement therewith in the arcuate path from a lowered frame supporting position adjacent the cutting mechanism to an elevated position remote from the cutting mechanism, a lever pivotally carried by the bar remote from the leg for movement about an axis which lies parallel to the common axis, and links carried by the bar and connected to the lever and to the leg for moving the leg in its arcuate path when the lever is moved about its pivot.

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**2,644,291**
**ADJUSTABLE CONVEYER FOR HARVESTER PICKUPS**
**Bernard Lemanski, Bad Axe, Mich.**
**Application August 17, 1950, Serial No. 180,072**
**9 Claims. (Cl. 56—351)**

1. In a harvesting machine, a frame, supporting wheels thereon, a second grain pick-up frame joined at one end to said first frame and projected forwardly and angularly downward therefrom, a conveyor upon said second frame, a second elongated conveyor mounted upon said first frame and projecting rearwardly thereof, a third upwardly inclined conveyor upon and within said first frame intermediate said conveyors with its lower end positioned adjacent the upper end of said first conveyor and with its upper end positioned above and adjacent the corresponding end of said second conveyor, an inverted U shaped support joined at its lower ends to opposite sides of said second conveyor and angularly inclined forwardly thereof, and a longitudinally arranged supporting beam pivotally mounted intermediate its ends upon said first frame, with its rear end joined centrally to said U shaped support and with its front end adjustably anchored within said first frame.



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**2,644,292**
**FEEDING CYLINDER**
**Lester E. Oberholtz and Gene Allen, Independence, Mo., assignors to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware**
**Application June 8, 1951, Serial No. 230,546**
**4 Claims. (Cl. 56—364)**



1. A feeding device of the type including a hollow cylinder having the cylindrical wall thereof providing with an opening, a fixed shaft in the axis of the cylinder and about which the cylinder rotates and having a crank portion contained within the hollow cylinder and a finger mechanism carried by the cylinder and connected with the crank portion of the shaft to effect projection and retraction of the finger through said cylinder opening, wherein said finger mechanism includes a bearing member having a cylindrical sleeve portion extending transversely within said opening of said hollow cylinder with a side portion thereof closing said opening and provided with a slot in said side portion and a corresponding slot in the opposite diametrical side of said sleeve portion, means for removably fixing the bearing member to the cylinder, a cylindrical guide member closely fitting within the sleeve portion of the bearing member and oscillatable therein in closing relation with slot-like openings in the sleeve portion of the bearing member and having a dimetrically extending bore registering with the slot-like openings, a sleeve member on the crank portion, and a finger extending through the slot-like openings of the sleeve portion of the bearing member and slidably mounted in the bore of the guide member and having an end removably connected with the sleeve member on the crank portion of said shaft.



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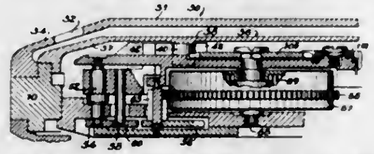
**2,644,293**
**ELECTRIC CLOCK**
**William A. Black, Montclair, N. J., assignor to General Time Corporation, a corporation of Delaware**
**Application March 2, 1949, Serial No. 79,285**
**12 Claims. (Cl. 58—28)**



1. In an electric clock having a time indicating means, a driving mechanism comprising a balance wheel, a hairspring connected to said balance wheel for causing oscillation of the latter, a gear train driven in unison with said balance wheel for operating said indicating means, an electromagnet having an armature cooperating therewith and movable into an energized and a deenergized position, an eccentric projection movable with said balance wheel, a resilient member actuated by said armature and having a free end positioned to impel said eccentric projection in a forward direction, an electrical circuit for said electromagnet including said eccentric projection and said resilient member so that said electromagnet is energized upon contact thereof, a wiper rotatable with said balance wheel, a finger arranged for engagement by said wiper during a portion of the path of movement of the latter so that said finger is swung in a forward direction upon rotation of said wiper, said finger including means for moving said resilient member into initial contact with said eccentric projection upon rotation of said wiper so that said electromagnet is energized and a resilient impulse applied to said projection by said resilient member, and biasing means for returning said armature to a deenergized position upon overtravel of said balance wheel and movement of said projection away from said resilient member.

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**2,644,294**
**ALARM WRIST WATCH**
**Robert Ditisheim, La Chaux-de-Fonds, Switzerland**
**Application April 24, 1952, Serial No. 284,166**
**In Switzerland September 27, 1943**
**7 Claims. (Cl. 58—57.5)**

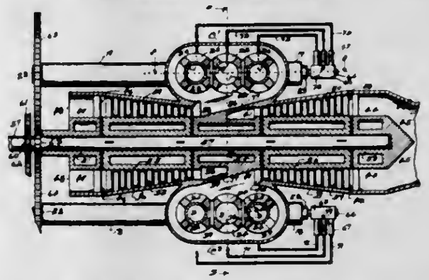


1. A watch of a size adapted to be worn on the wrist and having an audible alarm system comprising in combination, a case band, a sounding diaphragm, and a watch movement including a hammer means within said case band, said sounding diaphragm extending over the area opposite to the face of said watch so as to substantially completely cover one side of the space surrounded by said case band, said sounding diaphragm being of one piece and comprising a flat, thin, central portion and a relatively rigid, annular rim portion sloping from the central portion toward said case band and coupling said diaphragm with said case band, a stiff projection on said diaphragm extending into the space occupied by said watch movement, said hammer means including a hammer which is adapted to percussively strike the said stiff projection of said sounding diaphragm.



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**2,644,295**
**COMPOUND COMBUSTION ENGINE**
**Adolphe C. Peterson, Minneapolis, Minn.**
**Application January 3, 1950, Serial No. 136,593**
**5 Claims. (Cl. 60—13)**



1. In a power production means, a turbine casing having an expansion space therein and a turbine rotor mounted in said expansion space, an air compressing unit having an air intake and a compressed air discharge, a plural number of cylinders stationed in four planes adjacent said turbine rotor each one of said planes being on one side of a rectangle in a plane transversely of the axis of said turbine rotor the longitudinal axes of said cylinders being in said planes, a pair of oppositely reciprocating pistons in each of said cylinders in said planes, a crank shaft means having driving connection between it and each of said pistons to effect opposite reciprocation of the pistons of each pair of pistons, the said crank shaft means comprising a crank shaft at each of the four intersections of said planes the axis of the crank shaft being substantially in said intersection, inlet means for each cylinder in each of said planes and connecting passages therefrom to said compressed air discharge, exhaust means for each cylinder in each of said planes and connecting passages therefrom to the entrance to said turbine expansion space, a discharge from said turbine expansion space, means for periodically charging each of said cylinders with fuel for combustion with air compressed therein, and a driving connection between one of the said turbine rotor and the said crank shaft means to drive the air compressing unit.

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**2,644,296**
**LAMINATED JET VANE**
**Manuel C. Sanz, Los Angeles, and James Castelfranco, South Gate, Calif., assignors to North American Aviation, Inc.**
**Application January 15, 1948, Serial No. 2,465**
**15 Claims. (Cl. 60—35.6)**

10. A composite streamlined jet vane for use with a rocket motor comprising a central sheet

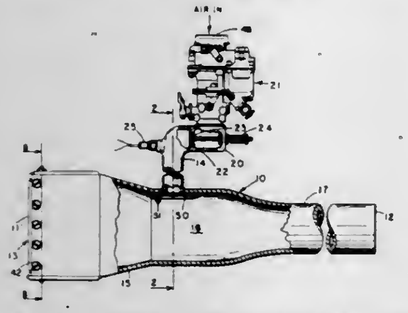
of high melting point material and a plurality of sheets of alternately low and high melting



point materials symmetrically arranged with respect to such central sheet.

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**2,644,297**
**DEVICE FOR JET PROPULSION THROUGH WATER**
**Winthrop K. Coxe, Covina, and Warren J. Merboth, Arcadia, Calif., assignors, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio**
**Application April 29, 1948, Serial No. 23,954**
**4 Claims. (Cl. 60—35.6)**

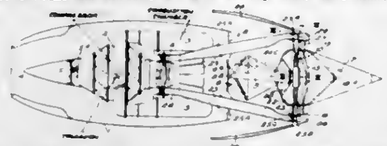


4. A jet propulsion motor adapted for operation through water, said motor comprising a duct having an inlet opening and an exhaust opening, an automatic pressure-operable valve located within the duct for intermittently passing water entering the duct through the inlet opening in a downstream direction only, a combustion chamber having an outlet opening into the duct somewhat downstream of said valve and leading into the side of the duct, a flexible flap valve fastened at the position where the outlet opening enters the duct with the fastening at the upstream side of the flap valve, said flap valve, when closed, lying flat against the inner wall of the duct and covering said outlet opening, and when open, extending into the duct from its fastening, whereby pressurized masses of gas from the combustion are forced past the flap valve and drive masses of water intermittently downstream through the duct and out the exhaust opening during periods of pressure.

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**2,644,298**
**PROPULSIVE THRUST AUGMENTER**
**Roderick Cristall McLeod, Cropston, Leicester, England, and Kenneth Watson, Clarkston, Scotland, assignors to Power Jets (Research & Development) Limited, London, England**
**Application November 13, 1945, Serial No. 628,294**
**In Great Britain March 15, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires March 15, 1963**
**8 Claims. (Cl. 60—35.6)**

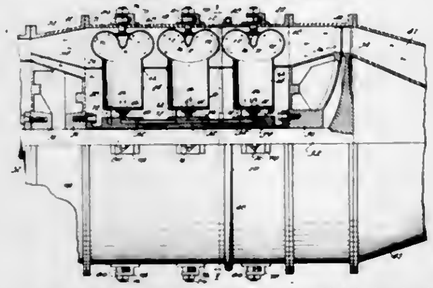
1. A thrust augmenter comprising a rotor disc, a ring of axial flow compressor blades attached peripherally thereto, a ring of axial flow turbine blades carried radially outwardly by the compressor blades, a turbine entry nozzle ring immediately upstream of said turbine blades, two coaxial annular members located radially within and enveloped by said nozzle ring and immediately upstream of said compressor blades, defining between them an annular air entry thereto and gas



ducting leading to said nozzle ring, said ducting being intersected by passages for air flow from the surrounding atmosphere to said air entry.

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**2,644,299**
**JET PROPULSION ENGINE WITH REGULATION OF AIR DISTRIBUTION**
**Joseph C. Williams, Independence, Mo.**
**Application August 18, 1950, Serial No. 180,157**
**4 Claims. (Cl. 60—39.23)**

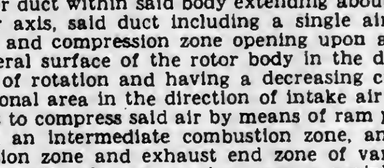


1. An engine of the class described including a cylindrical combustion section having an outer annular combustion chamber, an inner annular primary air chamber, and a plurality of radially extending mixing chambers extending between and interconnecting said primary air and combustion chambers, said combustion and primary air chambers terminating in concentric annular air inlet openings at one end of said combustion section, an air compressor adapted to receive and compress air and to deliver it simultaneously to the air inlet openings of said combustion section, means for injecting fluid fuel under pressure into the inner ends of said mixing chambers together with air from said primary air chamber, manual means for regulating the pressure and hence the flow rate of said fuel, a plurality of annular segmental vanes disposed in the air inlet opening to said combustion chamber to control the flow of air therethrough, means responsive to the fuel pressure for operating said vanes, whereby said vanes are closed in a degree substantially directly proportionate to said fuel pressure, thereby deflecting a greater or less proportion of the compressor air to the air inlet opening of said primary air chamber, and a gas turbine disposed at the end of said combustion section opposite from said compressor, said turbine being operable by the products of combustion and operably connected to said compressor to drive the same.

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**2,644,300**
**ELECTRICAL FUEL FEEDING SYSTEM**
**Herbert C. Waterman, Chicago, Ill., and Frank V. Kuzmitz, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application June 10, 1946, Serial No. 675,596**
**11 Claims. (Cl. 60—39.28)**

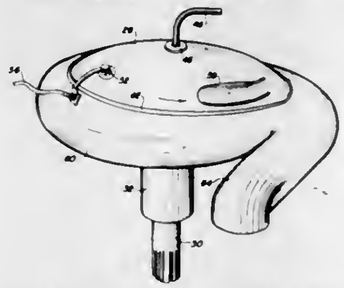
1. The combination with an engine of the type utilizing liquid fuel, of fuel supply means communicating with the engine, an engine throttle, a pump associated with said fuel supply means and constructed and arranged for delivering fuel to the engine, a magnetic clutch having one member drivably connected to the engine and a second member drivably connected to the pump, said one member constructed and arranged to be magnetically coupled with said second member,



a magnetic brake for said second member, and means for controlling said magnetic brake and the intensity of the magnetic coupling including a servo device having two cooperating relatively movable members one of which is moved in response to throttle setting and the other of which is moved in response to change in engine speed to automatically regulate the fuel to the engine for a given throttle setting.

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**2,644,301**
**RAM JET TURBINE**
**Henning Karlby, Pittsburgh, Pa.**
**Application February 8, 1949, Serial No. 75,139**
**11 Claims. (Cl. 60—39.35)**



1. In a ram jet reaction turbine, a rotor comprising a solid body of revolution having a curvilinear duct within said body extending about the rotor axis, said duct including a single air intake and compression zone opening upon a peripheral surface of the rotor body in the direction of rotation and having a decreasing cross-sectional area in the direction of intake air flow so as to compress said air by means of ram pressure, an intermediate combustion zone, an expansion zone and exhaust end zone of varying cross-sectional area opening upon a peripheral surface of the rotor body, and means for delivering liquid fuel under pressure into said compression zone of the duct during compression of air therein by high speed rotation of the rotor to form a combustible fuel-air mixture.

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**2,644,302**
**COMBUSTION CHAMBER HAVING A FLAT WALL LINER WITH OPPOSITELY DISPOSED APERTURES**
**Robert K. Kidd, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application June 17, 1948, Serial No. 33,472**
**3 Claims. (Cl. 60—39.65)**

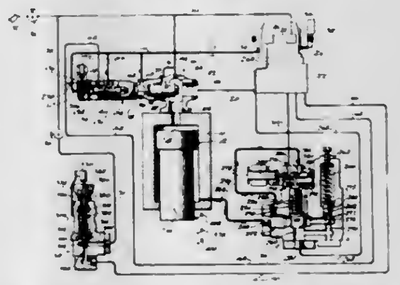
3. A combustion chamber liner closed at one end and open for the discharge of reaction products at the other end comprising a plurality of distinct lengthwise running combustion channels circumferentially placed about a common cylindrical coaxially lying combustion passageway, said lengthwise running combustion channels being open along their entire length to said common cylindrical coaxially lying combustion passageway, each lengthwise running channel having a plurality of air inlet holes located therein



for permitting the combustion air to enter into the combustion channels, each air inlet hole being so placed as to be substantially opposite to and facing another air inlet hole located in the opposing wall of the same lengthwise running channel and having a large area whereby air entering one hole impinges on air entering from its oppositely disposed hole to form a symmetrical turbulence pattern within the chamber.

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**2,644,303**
**HYDRAULIC PRESS CONTROL SYSTEM HAVING HYDRAULICALLY OPERATED MAIN VALVE**
**George F. Rohrscheib, Pewaukee, Wis., and Harry L. Reynolds, Chicago, Ill., assignors to Verson Allsteel Press Company, Chicago, Ill., a corporation of Delaware**
**Application March 9, 1949, Serial No. 80,538**
**13 Claims. (Cl. 60—52)**



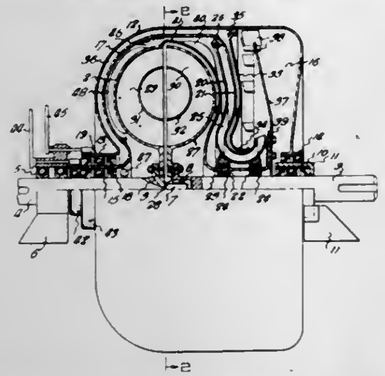
3. A control system for a press having a cylinder and a piston reciprocable therein, comprising in combination, a source of fluid, a hydraulic pump having a first outlet through which it delivers fluid under pressure to drive the piston in one direction, a main valve through which fluid is supplied to the cylinder when the piston is moving in said one direction, conduit means connecting said valve to said source of fluid and to said pump outlet, means including a second pump for biasing said valve to one position so that the cylinder is connected to said source of fluid through said valve during one stage of movement of the piston in said one direction, and means including said second pump for moving said valve to its second position against the force of said biasing means to connect only said first pump to the cylinder so that fluid under pressure is supplied to the cylinder through said valve during a second stage of movement of the piston in said one direction.

**2,644,304**

## FLUID CIRCULATION CONTROL FOR FLUID COUPLINGS

**John Edward Becker, Darlington Township, Durham County, Ontario, Canada**

**Application July 17, 1952, Serial No. 299,459**
**8 Claims. (Cl. 60—54)**



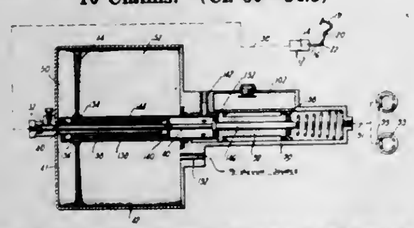
1. In combination with a fluid coupling assembly comprising a driving shaft and an impeller housing coupled to the driving shaft, a runner housing contained within the impeller housing and coupled to a driven shaft, an outer fluid frictionally driven freely rotatable shell within which the coupling assembly is contained, a fluid reservoir coupled to the shell and rotatable therewith, a check valve controlled passage forming a fluid communication between the shell and the reservoir, and pump vanes mounted upon the impeller housing for pumping fluid through the passage, of a pump wheel contained within the fluid reservoir and rotatable in unison with the driving shaft to constitute a fluid pump within the reservoir, a check valve controlled pumped fluid passage extending from the reservoir to the coupling, and brake means controlling the rotative speed of the reservoir.

**2,644,305**

## BOOSTER UNIT FOR HYDRAULIC PRESSURE SYSTEMS

**Earl R. Price and Thomas H. Thomas, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**

**Original application October 4, 1943, Serial No. 504,854, now Patent No. 2,470,748, dated May 17, 1949. Divided and this application May 3, 1949, Serial No. 91,158**
**10 Claims. (Cl. 60—54.5)**



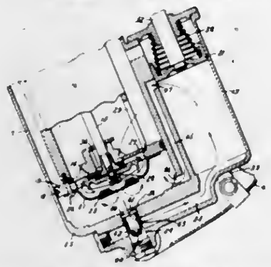
10. A manually operable power braking device comprising booster means, a hollow valve member movable relative to said booster means arranged to control actuation of the booster means, a master cylinder having a power-operated piston reciprocable therein to displace fluid therefrom, said piston being operatively connected to said booster means, a manually operable fluid pressure-responsive element projecting through said hollow valve member and arranged to actuate the latter, and means communicating the unit fluid pressure created by displacement of fluid in said master cylinder to said element in opposition to the force of the fluid pressure tending to displace the latter.

**2,644,306**

## HYDRAULIC POWER UNIT FOR OPERATION OF PRESS ELEMENTS

**Paul L. Paulsen, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**

**Application August 28, 1951, Serial No. 244,042**
**1 Claim. (Cl. 60—52)**



In an ironing machine of the type having a pivotally mounted carriage supporting a heated shoe for movement into and out of register with a buck, hydraulic power means for automatically operating said shoe and buck in sequence for a pressing operation therebetween comprising a main cylinder, a buck piston within said main cylinder and including a power operated pump, a second cylinder, a carriage piston movable within said second cylinder and biased to a position holding the shoe away from the buck, a valve seat in said main cylinder downstream of said buck piston presenting a flat surface of substantial area, a passageway of given diameter extending from within said main cylinder centrally through said valve seat to said second cylinder, a valve carried by said buck piston cooperable with said valve seat, said valve comprising a centrally apertured cup member fixed to said piston to receive said pump discharge and an annular resilient member mounted within said central aperture, said resilient member having an orifice of diameter less than said given diameter of said passageway and normally coaxially located with respect thereto and a flat surface adapted to overlie the corresponding surface of said valve seat, and means resiliently biasing said buck piston to a retracted position in which said piston carried valve is seated on said valve seat, whereby fluid pressure generated by said pump is effective first to drive said carriage piston within said second cylinder and upon restraint of said carriage to unseat said valve and drive said buck piston within said main cylinder.

**2,644,307**

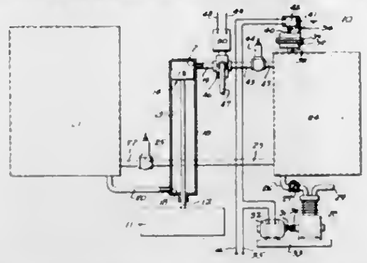
## PNEUMATIC HOIST

**Walter Blair, Detroit, Mich.**

**Application January 10, 1950, Serial No. 137,785**
**1 Claim. (Cl. 60—57)**

A pneumatic hoist for selectively raising and lowering a predetermined load, said hoist comprising a cylinder structure having load-raising and load-lowering spaces therein, a piston structure having load-raising and load-lowering piston areas reciprocable in said load-raising and load-lowering cylinder spaces respectively, a piston rod structure connecting said piston areas to said load, a compressed gas supply tank, a first conduit connecting said supply tank to said load-lowering cylinder space, a compressed gas load-sustaining tank, a second conduit connecting said load-sustaining tank to said load-raising cylinder space, means pneumatically connected to said supply tank for maintaining the gas therein compressed to a predetermined high pressure, a third





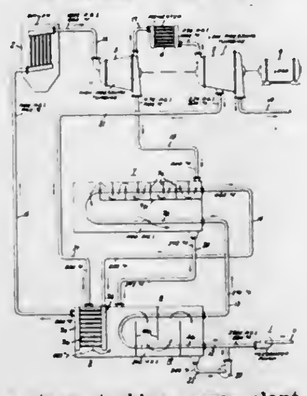
conduit interconnecting said tanks, a first pressure reducing valve in said third conduit operative to conduct gas therethrough at a predetermined medium pressure from said supply tank to said load-sustaining tank, a second pressure-reducing valve in said first conduit operative to conduct gas at a predetermined low pressure from said supply tank to said load-lowering cylinder space, and a control valve disposed in said first conduit between said second reducing valve and said load-lowering cylinder space, said control valve being operable selectively to conduct gas through said first conduit and to discharge gas from said load-lowering cylinder space.

**2,644,308**

## FEEDWATER HEATER ARRANGEMENT FOR STEAM TURBINE POWER PLANTS

**Jack E. Downs, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application August 21, 1952, Serial No. 305,610**
**6 Claims. (Cl. 60—67)**



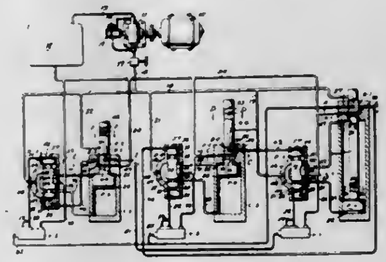
1. In a steam turbine power plant having a steam generator including a feedwater pump and a boiler supplying motive fluid to a high pressure turbine, a reheater, and a low pressure turbine in series, the combination of a first high temperature feedwater heater and a second lower temperature feedwater heater connected in series with the boiler feed pump, and a third feedwater heater connected in series between said first heater and the boiler, the first heater being heated by steam extracted from the high pressure turbine, the third heater being heated by steam extracted from the low pressure turbine, and the second heater being heated by steam discharged from the third heater.

**2,644,309**

## SYSTEM FOR CONTROLLING THE MOVEMENTS OF HYDRAULICALLY OPERATED PISTONS

**René Détrez, Nogent-sur-Marne, France**

**Application September 10, 1951, Serial No. 245,943**
**In France April 21, 1944**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires April 21, 1964**
**16 Claims. (Cl. 60—97)**



1. In a hydraulic control system, a main fluid pressure conduit, a plurality of cylinders, a piston reciprocable in each cylinder, a distributing valve for each cylinder controlling fluid flow to and therefrom, a directional valve associated with each control distributing valve for controlling the admission to and exhaust therefrom of fluid, a branch conduit from the fluid pressure line through each control distributing valve to each cylinder, valve means controlled by the piston in each cylinder and operable when said piston is at either end of its stroke, and fluid pressure conduits between the valve means of the first cylinder and the directional valves associated with the control distributing valves for the second and third cylinders, and additional fluid pressure conduits between the control distributing valve means of the second cylinder and the directional valve associated with the control distributing valve for the first cylinder whereby the piston in the first cylinder operates the second and the second piston restores the first.

**2,644,310**

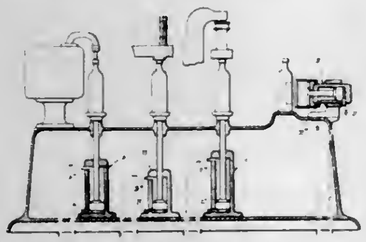
## PLURAL MOTOR HYDRAULIC DEVICE FOR CONTROLLING THE MOVEMENTS IN MACHINES AND APPARATUS FOR WASHING, FILLING, STOPPERING, CAPSULING, AND LABELING BOTTLES

**René Détrez, Nogent-sur-Marne, France**

**Application August 21, 1947, Serial No. 769,843**
**In France June 23, 1944**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires June 23, 1964**
**7 Claims. (Cl. 60—97)**

1. A machine for processing articles comprising, in combination, a plurality of independent parts which are movably mounted on the ma-

chine; a plurality of hydraulic operating means each connected to one of said independent parts for moving the same, said plurality of hydraulic operating means each including cylinder and piston parts one of which is fixedly mounted on a stationary part of the machine; a pressure liquid distributor having an outer casing which is fixedly mounted at a location distant from the machine, so that the said casing remains stationary during the operation of the machine; a plurality of pressure liquid conduits each connected at one end to said pressure liquid distributor and at the other end to one of said hydraulic operating means; a plurality of pressure liquid valves in said pressure liquid distributor each adapted to open and close one of said pressure liquid conduits; a movably mounted operating member common to said pressure liquid valves; a plurality of individual actuating members fixedly mounted on said common operating member so as to move with the same, and each of said individual actuating members being permanently associated with one of said pressure liquid valves so as to independently operate the same during movement of said common operating member; and means for moving said common operating member in synchronism with the operation of the machine, whereby the actuating members mounted on said operating member actuate said valves so as to open and close said pressure liquid conduits and thereby cause said hydraulic operating means to move said independent parts of the machine.



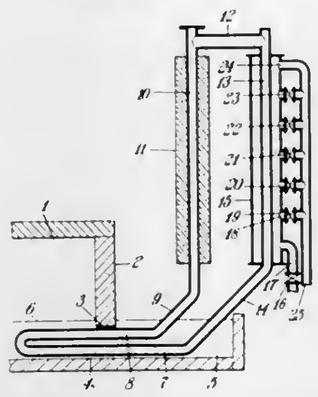
4. Apparatus for hydraulically controlling the reciprocating motion of an operating member in a machine for performing an operation on bottles, said apparatus comprising, in combination, a piston connected to the operating member; a cylinder enclosing said piston to support the latter for reciprocating movement; a pair of conduits operatively connected to said cylinder, one of said conduits communicating with one end of said cylinder on one side of said piston and the other of said conduits communicating with the opposite end of said cylinder on the other side of said piston; and a hydraulic distributor communicating with said conduits for controlling flow of liquid therethrough, said hydraulic distributor comprising a first pair of valves operatively connected to said conduits for permitting liquid to flow through the same in one direction, a second pair of valves operatively connected to said conduits for permitting liquid to flow through the same in an opposite direction, a first pair of cams operatively engaging said first pair of valves for simultaneously moving the same, and a second pair of cams operatively engaging said second pair of valves for simultaneously moving the same at a different time from the movement of said first pair of valves by said first pair of cams, whereby the movement of said piston in one direction is controllable independently of the movement of said piston in an opposite direction.

**2,644,311**
**SELF-PROPELLED MINE ROOF PROP**
**Paul J. Malloy, Lakewood, Ohio, assignor of one-half to Paul V. Malloy, Lakewood, Ohio**
**Application August 16, 1951, Serial No. 242,159**
**9 Claims. (Cl. 61—45)**



1. In a mine roof prop of the character described, a pair of adjacent prop units movable relative to each other along the mine floor and each having a substantially wedge-shaped movable member engageable with the mine roof and an actuating means for said movable member for engaging the same with the mine roof or disengaging the same therefrom, connecting means connecting said prop units and effective to transmit pushing and pulling forces therebetween for causing the relative movement between the prop units, and power means effective through said connecting means and operable to produce said pushing and pulling forces.

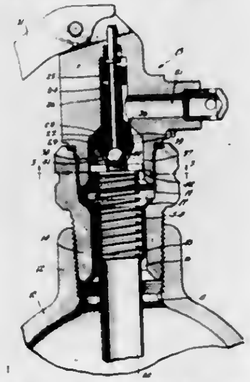
**2,644,312**
**PRODUCTION OF ZINC**
**Stephen Esslemont Woods, Bristol, and Bennett Gregory Perry, Westbury-on-Trym, Bristol, England, assignors to The National Smelting Company Limited, London, England**
**Application June 6, 1950, Serial No. 166,338**
**In Great Britain June 13, 1949**
**5 Claims. (Cl. 62—1)**



1. A cooling system for a pool of molten metal comprising a closed circuit of tubes containing a readily fusible metal alloy in liquid form and having a part for fitting into the pool of molten metal and two generally vertical parts interconnected at their top ends and with the bottom ends respectively connected to the two ends of the part for fitting into the pool of molten metal, the boiling temperature of said metal alloy being higher than the temperature to which the alloy is raised in that part of said circuit which is fitted into the pool of molten metal, and a water cooling jacket around one of said generally vertical parts.

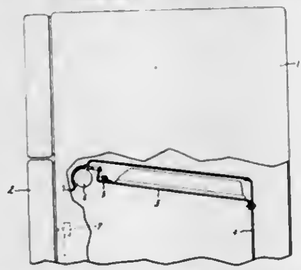


**2,644,313**
**CARBON DIOXIDE STORAGE**
**Nelson S. Griggs, Northfield, Vt., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey**
**Application November 16, 1951, Serial No. 256,686**
**3 Claims. (Cl. 62—1)**



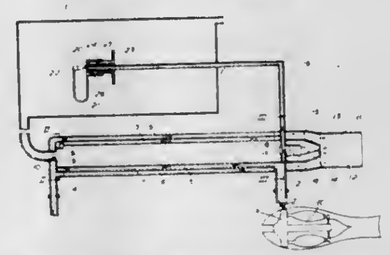
1. A package comprising a portable fluid-tight storage container having a discharge passage, a closure for controlling said discharge passage including a seat element and a valve element cooperating with said seat element to form a seal, and a charge of saturated carbon dioxide under pressure confined in said container by said closure, one of said elements consisting of a synthetic polymer material of the class described and being characterized in that it has negligible cold flow at temperatures between —65° F. and 160° F. and at mechanical pressures up to 3500 pounds per square inch, in that it substantially completely resists permeation by saturated carbon dioxide when exposed thereto at the aforementioned temperatures and pressures and in that it resists dimensional changes upon rapidly reducing the carbon dioxide pressure from 3500 to 0 pounds per square inch (gauge).

**2,644,314**
**COMPENSATED CONTROL SYSTEM**
**Frank A. Schumacher, Erie, Pa., and John B. Tucker, Marblehead, Mass., assignors to General Electric Company, a corporation of New York**
**Application March 30, 1951, Serial No. 218,376**
**4 Claims. (Cl. 62—4)**



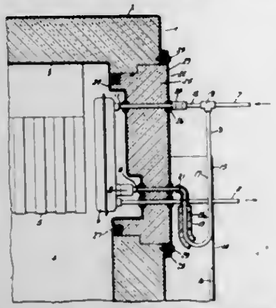
1. In a refrigerator having a refrigerated compartment, a door for said compartment, an evaporator for cooling said compartment, and condensing apparatus for supplying refrigerant to said evaporator; a temperature and illumination control system comprising temperature-sensing means mounted adjacent said evaporator, a first switch actuated by said temperature-sensing means, said first switch controlling the operation of said condensing apparatus, a lamp mounted immediately adjacent said temperature-sensing means whereby heat from said lamp when illuminated is transferred directly to said temperature-sensing means and a second switch actuated by said door, said second switch deenergizing said lamp when said door is closed and energizing said lamp when said door is opened whereby heat is supplied directly from said lamp to said temperature-sensing means for actuating said first switch substantially immediately after said door is opened and without appreciably increasing the temperature of said refrigerated compartment.

**2,644,315**
**SYSTEM FOR THE SUPPLY OF CONDITIONED AIR IN AIRCRAFT**
**Archie William Holmes Jamieson, Hanworth, England, assignor of one-half to Sir George Godfrey & Partners (Holdings) Limited, Hanworth, England, a company of Great Britain**
**Application December 8, 1950, Serial No. 199,781**
**In Great Britain July 4, 1949**
**9 Claims. (Cl. 62—6)**



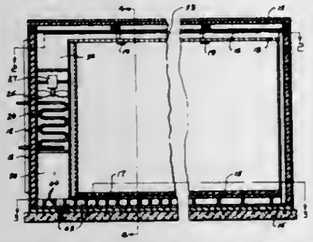
4. Apparatus for supplying conditioned air in an aircraft comprising a gas turbine serving to propel the aircraft and including an air compressor which delivers air to the turbine and also constitutes a source of compressed air, a vortex tube in the form of a cylindrical chamber, a jet for delivering compressed air to the chamber, an annular diaphragm extending across the chamber on one side of the point at which the air jet enters the chamber and having a central outlet aperture for the outflow of cold air, a hot air outlet passage leading from the other end of the chamber and a cold air outlet passage leading from the central outlet aperture, means for restricting the free flow of hot air through the hot air outlet passage and thereby causing a flow of cold air through the central aperture and cold air outlet passage, means for connecting at least one of the hot and cold air outlet passages to a space in the aircraft in which conditioned air is required, a heat exchanger for cooling the compressed air and through which compressed air passes before it enters the vortex tube, means for supplying coolant to the heat exchanger, an exhaust passage to carry away the coolant from the heat exchanger, and an ejector nozzle connected to the hot air outlet passage from the vortex tube and arranged in said exhaust passage to permit control of the supply of coolant by means of the suction action of the nozzle.

**2,644,316**
## WATER COOLING ARRANGEMENT FOR REFRIGERATORS
**Howard A. Wyman, Jr., Wesleyville, Pa., assignor to General Electric Company, a corporation of New York**
**Application June 10, 1950, Serial No. 167,422**
**9 Claims. (Cl. 62—7)**



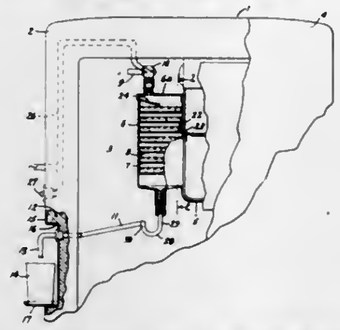
1. In a refrigerator or the like including a storage compartment and an evaporator for cooling said storage compartment, a water cooling arrangement including a storage container for water disposed in said storage compartment adjacent the evaporator whereby water therein is cooled by said evaporator, a conduit having both ends connected to said container in communication with the water therein to provide a closed water circulating path with said container, said conduit including a single vertical portion exposed to ambient temperature whereby heat is supplied to the water in said vertical portion of said conduit thereby to induce circulation of water through said conduit and said container, and means dependent on the temperature of the water in said container for controlling circulation of water through said conduit.

**2,644,317**
## REFRIGERATING STORAGE APPARATUS
**Harold D. Haywood, Vancouver, British Columbia, Canada**
**Application June 19, 1950, Serial No. 168,920**
**In Canada June 27, 1949**
**4 Claims. (Cl. 62—95)**



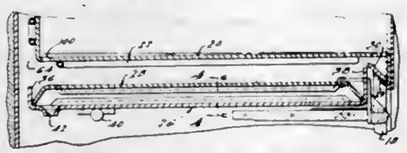
1. Refrigerating storage apparatus comprising an insulated room, a low pressure chamber covering the ceiling of the room, a blower and freezing unit having an inlet and an outlet, the inlet of the blower being connected to the ceiling chamber, a plenum chamber connected to the blower outlet, a plurality of channels radiating from the plenum chamber in the floor covering the entire area of the latter, each of said channels increasing in width towards its outer end, a plurality of vertical partitions dividing each floor channel into sub-channels adjacent its outer end, some of said partitions extending from the outer end of each floor channel back therein farther than others, and a plurality of vertical channels in each of the walls covering the entire area thereof leading from the floor channels to the ceiling chamber, each floor channel being connected at its outer end to a plurality of wall channels to form therewith part of an individual circuit which extends from the plenum chamber through the floor and a wall to the ceiling chamber and back to the blower and freezing unit inlet, and each circuit being completely separate from the others in the floor and walls.

**2,644,318**
## WATER COOLER FOR REFRIGERATOR
**Carl R. Sebens, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**
**Application January 6, 1950, Serial No. 137,201**
**10 Claims. (Cl. 62—99)**



1. In combination with a refrigerator including a cooling unit, a water-cooling arrangement comprising a housing secured in heat exchange relationship with the cooling unit, a plurality of water-receiving and retaining elements secured to said housing in spaced relationship to each other and in fixed direct heat conducting relationship with said cooling unit, said cooling unit operating at a temperature below the freezing point of water, and means for supplying water to said elements, each of said elements being formed to retain at least a portion of the water initially supplied thereto so that said portion is frozen on said elements to provide a body of ice on each of said elements whereby water subsequently supplied to said elements flows over said ice and is cooled rapidly by contact therewith.

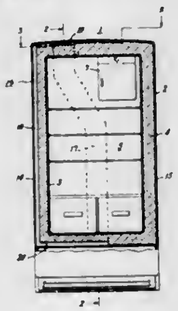
**2,644,319**
## DEVICE FOR MAINTAINING DIFFERENT TEMPERATURES IN REFRIGERATORS
**Clinton Millman, Greenville, Mich.**
**Application January 4, 1950, Serial No. 136,743**
**9 Claims. (Cl. 62—103)**



1. In a refrigerator, a cabinet having vertical walls defining a storage space, an evaporator in the upper portion of said space and having a downwardly depending upturned hooklike element, a first baffle extending transversely of said walls and comprising a member having a bottom wall surrounded by a peripheral flange extending upwardly above the plane of said bottom wall, one portion of said flange having a downturned hooklike portion receivable within said element to support said first baffle, a second baffle comprising a top wall having spaced downturned portions seating on said first baffle and supporting said top wall in spaced relation to and above said bottom wall, said bottom wall being undulated to provide crests and valleys, said bottom wall being apertured at at least some of said crests, said top wall being movable relative to said bottom wall and having an aperture aligned with said bottom wall aperture when said members are in a first relative position and disaligned when said members are in a second relative position.



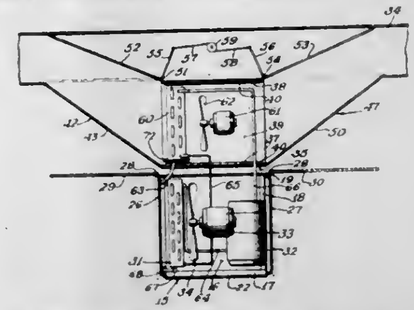
**2,644,320**
## COOLING ARRANGEMENT FOR REFRIGERATING APPARATUS
**Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application October 3, 1950, Serial No. 188,222**
**12 Claims. (Cl. 62—117.4)**



1. A refrigerator including an outer wall having a rear portion and two side portions, an inner wall spaced from said outer wall, heat-insulating material in the space between said walls, and a condenser disposed in the region of said rear portion of said outer wall whereby heat is transferred from said condenser to said rear portion of said outer wall, means defining a continuous passage within said space, said passage including a generally vertical section adjacent said rear portion of said outer wall for passing air upwardly adjacent said rear portion to receive heat therefrom and a generally vertical section adjacent one of said side portions of said outer wall and relatively remote from said condenser for passing air downwardly to dissipate heat to said one of said side portions whereby heat is transferred from said rear portion of said outer wall and from said condenser to said one of said side portions of said outer wall.

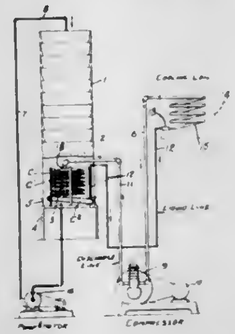
**2,644,321**
## WALL MOUNTED AIR CONDITIONING UNIT
**William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey**
**Application July 12, 1951, Serial No. 236,305**
**5 Claims. (Cl. 62—140)**

3. In combination with the outside wall of a building having a duct disposed along the inside of said wall and having an opening through said wall, a high side compartment and a low side compartment, said low side compartment mounted on the inside of said wall below said duct and above said opening, an evaporator mounted within said low side compartment, said high side compartment comprising a casing mounted on the outside of said wall completely enclosing said opening, a compressor, condenser and fan means mounted within said high side compartment, flexible tubing interconnecting said evaporator, compressor and condenser, two openings disposed in two sides of said casing, said condenser and said fan means mounted horizontally in line with said two openings so that said fan means operates to cause a horizontal air circulation into one of said



two openings, over said condenser and out of the other of said openings, two openings disposed in two sides of said low side compartment, a pair of ducts, each of said pair of ducts mounted to enclose one of said openings in said sides of said low side compartment, and connected to said duct disposed along said wall, damper means associated with said pair of ducts and operable to one position to effectively place said low side compartment within said duct disposed along said wall and operable to another position to effectively remove said low side compartment from said duct disposed along said wall.

**2,644,322**
## ATMOSPHERIC CONDENSER APPARATUS
**Andrew Y. Preble and Earl K. Hinson, El Centro, Calif.**
**Application August 26, 1949, Serial No. 112,512**
**4 Claims. (Cl. 62—154)**

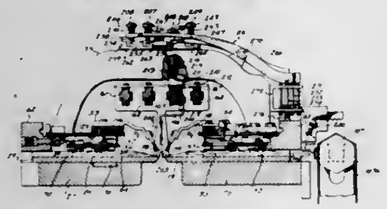


1. In condenser apparatus for operation in a water cooled system, the combination of a plurality of condenser coils disposed in spirals about a substantially vertical axis, and forming a bank, said coils having adjacent relatively elevated inlet ends, adjacent the axis of said coils, and having adjacent relatively depressed outlet ends, an inlet header, disposed adjacent said axis con-

nected to said elevated ends of the spiral coils, for supplying the vapors under pressure thereto, to be condensed in the same, so that the liquid of condensation flows down by gravity through the coils, an outlet header disposed adjacent the perimeter of said bank connected to the outlet ends of said coils, a receiver connected to the lower end of said outlet header, means for spraying said coils with air cooled water to accelerate the condensing effect, said receiver having an outlet connection for delivering the liquid under pressure to an expansion valve of a cooler.

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2,644,323
**KNITTING MACHINE**
**Michael Zimic, Lake Success, and Anton Miskovsky, Deer Park, N. Y.; said Miskovsky assignor to said Zimic**
**Application December 28, 1949, Serial No. 135,393**
**9 Claims. (Cl. 66—63)**



1. In a knitting machine, a needle bed, a needle movably disposed on said bed, a jack having a pair of spaced butts of different length projecting therefrom, said jack being movably supported by the bed and having means for shifting said needle, a carriage movable along said bed, said carriage having cam surfaces and an independently movable gate cam, adapted in an active position thereof to engage one of said butts and in an inactive position thereof to clear said butt, said gate cam being positioned in the line of motion of said cam surfaces, whereby when the gate cam is in the inactive position thereof said cam surfaces may pass between said butts, the jack remaining stationary.

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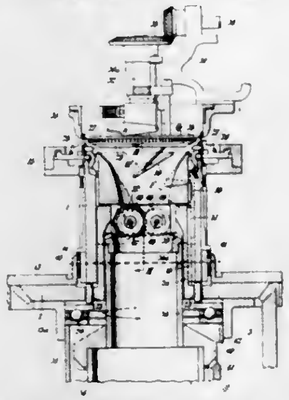
2,644,324
**KNITTING NEEDLE**
**Lloyd Spencer, South Pasadena, Calif.**
**Application July 14, 1948, Serial No. 38,581**
**9 Claims. (Cl. 66—117)**



6. A knitting needle set comprising: a pair of knitting needle shanks of different length; a head for each knitting needle shank, each defining a socket disposed in angular relation to its knitting needle shank and adapted to receive and cover the pointed end of the mating knitting needle shank; the depths of the sockets in said heads and the relative lengths of the knitting needle shanks being such that when the longer knitting needle shank bottoms in the socket in the head of the shorter knitting needle shank, the shorter knitting needle shank penetrates into the head of the longer knitting needle shank a depth beyond its pointed end; said sockets, adapted when said knitting needle shafts are inserted therein, to exert a biasing force tending to bow said knitting needle shanks and thereby retain the same; said knitting needle shanks being formed of metal having sufficient elasticity as to straighten when said knitting needles are separated, and said heads being formed of plastic material to provide a frictional grip on said knitting needle shanks.

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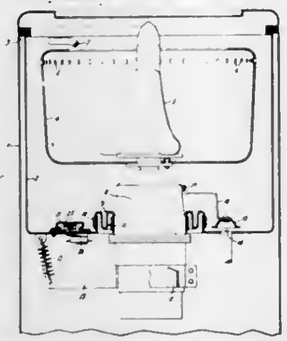
2,644,325
**CIRCULAR KNITTING MACHINE**
**James Gordon Hanes, Jr., Winston-Salem, N. C., and George S. Campbell and George Eugene Campbell, Chattanooga, Tenn., assignors to Hanes Hosiery Mills Co., Winston-Salem, N. C., a corporation of North Carolina**
**Application May 10, 1950, Serial No. 161,076**
**11 Claims. (Cl. 66—150)**



1. In a circular knitting machine for producing tubular fabrics, a rotary cylinder with needles, a pair of transversely-arranged cooperative take-up rolls in the upper portion of the needle cylinder somewhat below the knock-over level for drawing the fabric down from the needles during its formation; and mechanism for driving the take-up rolls including a pair of coaxial tubes through the inner of which the fabric passes, and means for concurrently rotating the tubes at different speeds.

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2,644,326
**WATER DRAIN FOR SPIN BASKET TYPE WASHING MACHINES**
**Joseph C. Worst, Trenton, N. J., assignor to General Electric Company, a corporation of New York**
**Application June 25, 1952, Serial No. 295,492**
**2 Claims. (Cl. 68—23)**

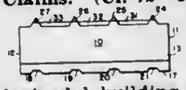


1. In a clothes washing machine, a tub having a drain opening, a spin basket and operating mechanism yieldingly supported in the tub for limited vertical movement with respect thereto under the weight of water in the basket, and a vertically yielding valve carried by said operating mechanism and movable therewith for closing said drain opening.



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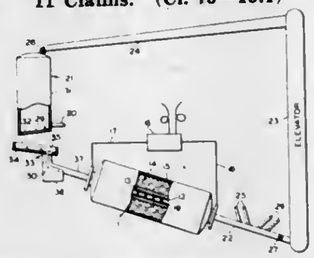
2,644,327
**STRUCTURAL BUILDING UNIT**
**Norman Thomas Clements, Pittsburgh, Pa.**
**Application September 2, 1948, Serial No. 47,451**
**7 Claims. (Cl. 72—38)**



1. A parallelepipedal building unit having at least a pair of opposed flat surfaces, a longitudinally extending cleat of triangular cross section on one flat surface disposed adjacent one edge thereof and having a plurality of equally spaced notches therein of lesser depth than the depth of the cleat, and a plurality of transversely extending cleats on the opposite flat surface being of substantially the same cross section as the longitudinal cleat and spaced apart in accordance with the spacing of the notches therein, said transversely extending cleats having open sided notches at the corresponding ends thereof at one edge of said opposite flat surface corresponding in depth to the height of the longitudinal cleat less the depth of the notches therein.

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2,644,328
**PEBBLE TESTING METHOD AND APPARATUS**
**Sam P. Robinson and Robert R. Goins, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware**
**Application December 13, 1948, Serial No. 64,936**
**11 Claims. (Cl. 73—15.4)**

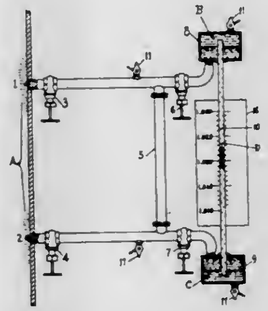


1. A pebble strength testing device which comprises in combination a first heat exchanger; a pebble compression applicator; a first conveyor means communicating between said first heat exchanger and said compression applicator; a second heat exchanger intermediate the ends of said first conveyor means; a second conveyor means communicating with the upper portion of said first heat exchanger; and pebble sorting means communicating between said compression applicator and said second conveyor means.

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2,644,329
**DENSITY METER**
**Alfred C. Redfield, Woods Hole, Mass., assignor to the United States of America as represented by the Secretary of the Navy**
**Application November 28, 1944, Serial No. 565,512**
**2 Claims. (Cl. 73—32)**

1. A fluid density meter comprising a transparent vertical tube filled with two immiscible fluids of differing densities, one of which is of higher density and the other of lower density than the range of densities of the fluid to be measured and both immiscible therewith, means including a reservoir surrounding the lower end of the tube and filled with said heavier fluid to a point above the end of the tube for supplying to and receiving from the tube a volume of the fluid substantially equal to the volume of the tube, a reservoir surrounding the upper end of the tube and disposed with the tube extending into the upper portion of the reservoir, the reservoir having therein sufficient of said lighter fluid to surround and fill the upper end of the tube at all times, a pair of conduits extending respectively into the lower and upper reservoirs at the upper and lower faces thereof, respectively, a vertical



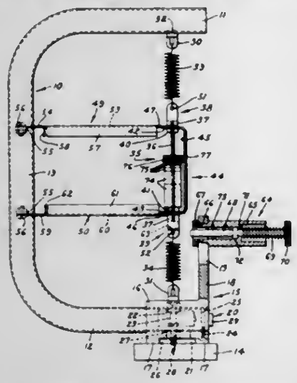
column of the fluid to be measured having a height and elevation substantially equal to the height and elevation of the tube and communicating with the reservoirs through said conduits for conducting the fluid to be measured into the upper reservoir beneath the lighter fluid and into the lower reservoir over the heavier fluid, means for adjusting the volumes of the lighter and heavier fluids in the reservoirs and closing the system with the weight of the column and tube fluids in equilibrium such that the fluid interface in the tube traverses the length thereof in response to the maximum change in density within said range of the fluid in said column as the lighter sample thereof partially displaces the lighter fluid in the upper reservoir and as the heavier sample thereof partially displaces the heavier fluid in the lower reservoir.

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2,644,330
**FUEL CLEANLINESS DETERMINATION**
**Fredrick L. Jonach, Richmond Hill, N. Y., and James A. Wilson, Linden, and John J. Heigl, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**
**No Drawing. Application March 1, 1951, Serial No. 213,457**
**5 Claims. (Cl. 73—53)**

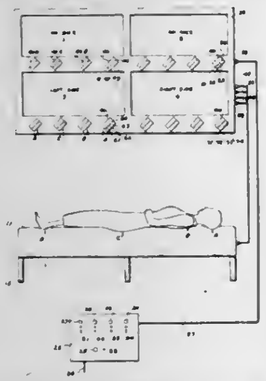
2. The process for characterizing a hydrocarbon fuel comprising the steps of burning the fuel to be charatcerized in a burner system under constant conditions of combustion to provide an open flame, directing said open flame into a cylindrical cooled container, whereby combustion products are condensed and deposited in said cooled container, and thereafter dissolving deposits in said container in an organic gum solvent having a Kauri-Butanol solvent power of at least 100, and determining the weight of deposits dissolved in the solvent and determining the quantity of deposits insoluble in the said solvent.

**2,644,331**
**VIBRATION MODE ANALYZER**
**Samuel J. Loring, Stratford, Conn.**
**Application July 11, 1946, Serial No. 682,882**
**8 Claims. (Cl. 73—67)**



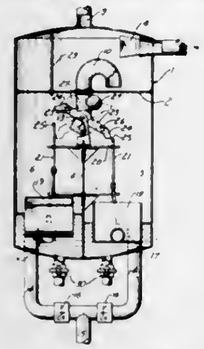
2. In an apparatus for the purpose set forth, a rigid support, a loading means, elastic restoring means mounting said loading means on said rigid support whereby the loading means is capable of linear vibrations relative to the support, said loading means comprising a rigid element elongated to have various weights stacked one on another thereon, means on said element and adjustable therealong for rigidly clamping said various stacked weights to said element against movement relative thereto and relative to one another, and means for rigidly attaching said rigid support to a structure the vibration characteristics of which are to be determined.

**2,644,332**
**WEIGHT DISTRIBUTION TESTING APPARATUS**
**Sanford S. Ulrich, Detroit, Mich., assignor to Robinson Furniture Company, Detroit, Mich., a corporation of Michigan**
**Application February 24, 1951, Serial No. 212,606**
**4 Claims. (Cl. 73—172)**



1. In a device for visibly indicating the weight distribution of a person lying upon a mattress in a predetermined position, a mattress, an upright coiled spring immovably supported at its lower end within said mattress, an upright vertically movable conductive shaft within said spring and suspended at its upper end from the upper end of said spring and movably responsive to a load upon said spring, a normally open electrical circuit including a bulb and joined to a source of electricity, an open switch in said circuit spaced from below said shaft and adapted to be engaged by said shaft upon a predetermined downward movement thereof for closing said circuit, a branch circuit connected in parallel to said first circuit and including a second bulb, and a second open switch in said branch circuit spaced from and below said shaft and adapted to be engaged by said shaft upon a further predetermined downward movement thereof whereby said first circuit and said branch circuit are closed.

**2,644,333**
**LIQUID METER**
**Ray Duus, Beverly Hills, Calif.**
**Application February 23, 1949, Serial No. 77,703**
**3 Claims. (Cl. 73—219)**

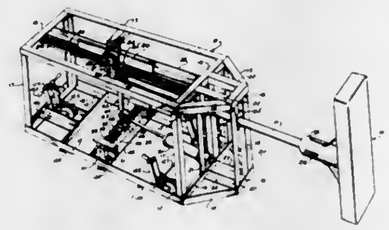


1. A liquid meter, comprising: a shell structure defining a pair of metering chambers; shiftable inlet means for discharging liquid into either of said metering chambers; an outlet from each of said chambers; a hollow float in each of said chambers, open at its upper side, the interior of said float communicating with the outlet of its corresponding chamber and isolating said outlet from said chamber when said float is buoyed therein, and the liquid level is below the upper open side of said float; means for restraining upward movement of said float, each of said floats adapted when restrained by said means and the liquid level rises above its open side to submerge and receive liquid for discharge through its corresponding outlet; and means connecting said floats with said inlet means to shift said inlet means from one metering chamber to the other in response to submergence of the alternate float.

**2,644,334**
**FOOTBALL TRAINING APPARATUS**
**Elwood L. Perry, Hickory, N. C.**
**Application January 8, 1948, Serial No. 1,239**
**13 Claims. (Cl. 73—379)**

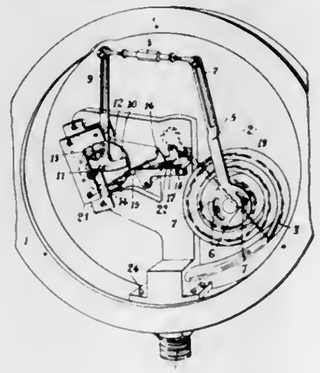
1. In football training apparatus, in combination, a stationary frame, an elongated bar supported in said frame for endwise movement and having one end projecting from said frame, an impact member mounted on the projecting end of said bar, a lever pivotally supported at one end on said frame and connected at its other end with said bar, spring means acting on said lever to urge said bar and said member toward a forward position and to determine the force required to be exerted on said member to shift said bar rearwardly, and means acting on said lever to releasably restrain said bar and said





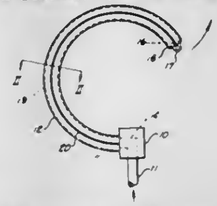
member from forward movement after being shifted rearwardly by an impact.

**2,644,335**
**DIAL INDICATING MECHANISM FOR MEASURING INSTRUMENTS**
**Alan Bain Dickie, Bath, Somerset, England**
**Application July 28, 1948, Serial No. 41,097**
**In Great Britain July 28, 1947**
**5 Claims. (Cl. 73—397)**



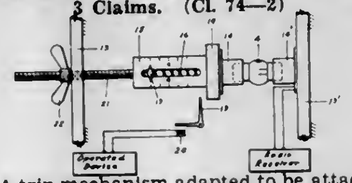
1. An indicating instrument having a continuous scale and a co-operating indicator member relatively movable along the full length of such scale, and comprising a detector member moving with variations in the quantity being indicated, a rotary cam having a continuous non-circular cam surface and being driven by said detector, and a cam follower engaging said cam surface and driving said indicator, said scale having graduations, in at least one part of a different pitch to those in the remainder, and said continuous non-circular cam surface of said cam being spaced from the axis of rotation of the cam, one section of said cam surface uniformly varying its spacing from said axis according to a first given rate of variation, and another section of said surface uniformly varying its spacing from said axis according to a second given rate of variation said indicator member moving over said one part of said graduations when said cam follower moves along said one section of said cam surface, said indicator moving over said remainder of said graduations when said cam follower moves along said other section.

**2,644,336**
**BOURDON TUBE**
**Hoel L. Bowditch, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts**
**Application November 1, 1950, Serial No. 193,394**
**2 Claims. (Cl. 73—418)**



1. A C type Bourdon tube with one end fixed and the other end movable in an arc upon the application of fluid pressure change to the interior of said tube; said tube having, in transverse cross section, a noncircular bellows-like configuration with inwardly extending deep V fold portions disposed in general perpendicularity with respect to the plane of said tube end movement arc, whereby said pressure change causes flexing of V folds as defined by said V fold portions, in bellows-like action as a factor in the response of said tube to said pressure change.

**2,644,337**
**ELECTROLYTIC CELL**
**Edwin M. Sutherland and Harold W. Albrecht, East Cleveland, Ohio, assignors to the United States of America as represented by the Secretary of the Navy**
**Application December 9, 1944, Serial No. 567,515**
**3 Claims. (Cl. 74—2)**

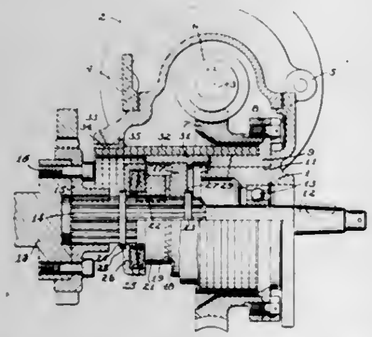


1. A trip mechanism adapted to be attached to an explosive electrolytic cell, to be held in cocked position by the cell and to be released by the explosion thereof comprising a threaded rod one end of which projects through a fixed support, a wing nut adapted to threadedly engage the rod and to hold it in fixed relationship with respect to the fixed support, spring means attached to the other end of the threaded rod adapted to exert tension or pressure upon a socket which is adapted to be attached to the electrolytic cell, lug means attached to the socket adapted, upon release of the trip mechanism by the explosion of the electrolytic cell, to initiate the operation of a device, and slotted scale means provided with an indicating pointer positioned over the spring means adapted to indicate the amount of tension or pressure exerted by the spring means.

**2,644,338**
**ENGINE STARTER GEARING**
**Donald L. Miller, Horseheads, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware**
**Application October 31, 1951, Serial No. 254,123**
**3 Claims. (Cl. 74—7)**

1. Reduction gearing for engine starters comprising a casing, a power shaft rotatably mount-

ed therein, a driving gear fixed on the power shaft, a driving coupling member journaled in the casing having a smooth cylindrical surface, a driven gear fixedly mounted on said coupling member and meshing with the driving gear, a driven shaft journaled in the casing coupled to a member of the engine to be started, a driven coupling member journaled on the driven shaft having inclined teeth on one side, and having a cylindrical surface in alinement with the cylin-



drical surface of the driving coupling member, a coiled spring bearing on said cylindrical surfaces and so wound as to wrap down and grip said surfaces to transmit cranking torque from the driving to the driven coupling member, a transmission member splined on the driven shaft having inclined teeth cooperating with the inclined teeth of the driven coupling member, and yielding means resisting relative slippage of said inclined teeth.

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2,644,339

## LIFTING DEVICE FOR THE TOOL-CARRIER OF AGRICULTURAL MACHINES

**Heinrich Kamplade, Windsheim, Germany, assignor to Maschinenfabrik Schmotzer G. m. b. H., Windsheim, Bavaria, Germany, a company of Germany**

**Application April 17, 1952, Serial No. 282,779**
**In Germany February 26, 1951**
**1 Claim. (Cl. 74—155)**



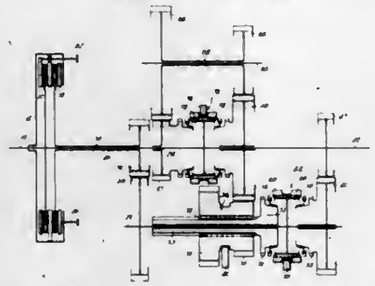
A lifting device for the frames of horse-drawn or tractor-drawn agricultural machines having manually engageable and disengageable working tools, said device comprising a cranked shaft, a ratchet having a single series of teeth connected to the shaft, a manual lever rotatably mounted on the cranked shaft, a first spring biased pawl connected to the lever and engaging the teeth of the ratchet, a second spring biased pawl mounted on the frame in a position to prevent reverse motion of the ratchet, and a third spring biased pawl mounted on the frame outside of the ratchet within the sector of movement of the lever and engageable with two recesses located at diagonally opposite points on the ratchet.

2,644,340

## DOUBLE COUNTERSHAFT TRANSMISSION

**Harold T. Youngren, Birmingham, Mich., and Sidney V. Hettinger, Jr., Westchester, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**

**Application June 11, 1949, Serial No. 98,591**
**4 Claims. (Cl. 74—330)**



1. In a variable speed transmission, the combination of a driving shaft, a driven shaft, and means providing first, second, third, fourth and fifth power trains capable of respectively effecting low, intermediate and high speed reduced drive ratios, a direct drive and a reverse drive between said shafts, said first power train including friction engaging means and positive engaging means for rendering said first power train effective when both engaging means are engaged to complete the low speed reduced drive between the shafts, said second power train including second friction engaging means and second positive engaging means for rendering said second power train effective when both of said second engaging means are engaged to complete the intermediate speed reduced drive between the shafts, said third power train including a third positive engaging means and also including said first friction engaging means to complete the high speed reduced drive between the shafts, said fourth power train including a fourth positive engaging means and also including said second friction engaging means to complete the direct drive between the shafts, said fifth power train including said first and second positive engaging means, said first friction engaging means and a fifth positive engaging means to complete the reverse drive between the shafts, said first and third positive engaging means being shiftable to disestablish the first power train and to establish the third power train for subsequent completion by engagement of said first friction engaging means when said second mentioned power train is effective, and said second and fourth positive engaging means being shiftable to disestablish the second power train and establish the fourth power train for subsequent completion by engagement of said second friction engaging means when said third mentioned power train is effective.

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2,644,341

## STEERING MECHANISM FOR MOTOR VEHICLES AND THE LIKE

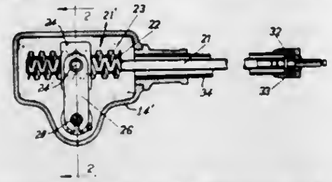
**Karl Rabe, Stuttgart, Germany, assignor, by mesne assignments, to Dr. Ing. h. c. F. Porsche K. G., Stuttgart-Zuffenhausen, Germany, a corporation of Germany**

**Application June 13, 1951, Serial No. 231,325**
**In Germany June 19, 1950**
**3 Claims. (Cl. 74—499)**

1. A steering mechanism for a motor vehicle including a steering shaft and a housing into



which one end of the shaft extends, a single bearing for the shaft located outside the housing, said bearing having a running surface permitting pivoting of the steering shaft, means for transmitting the motion of the steering shaft comprising a worm on the shaft in the housing including two similar opposite intersecting threads, two similar nut segments of opposite thread respectively engaging the two threads of the worm, a



pair of pitman shafts extending into the housing, and a pair of levers in the housing respectively fixed to said shafts and respectively engaging and holding said nut segments, the end of the steering shaft extending into the housing being supported solely by the nut segments, said nut segments being movable in opposite directions along said worm when the steering shaft is rotated, thereby rotating the pitman shafts in opposite directions with respect to each other.

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2,644,342

## BRAKE LEVER

**George R. Roesch, Toledo, Ohio, assignor to The Rush Stamping Company, Toledo, Ohio, a corporation of Ohio**

**Application August 21, 1952, Serial No. 305,589**
**8 Claims. (Cl. 74—503)**



1. In brake controlling mechanism of the class described, a first bracket adapted to be attached to the instrument panel of a motor vehicle, a second bracket adapted to be mounted on the bulkhead of said vehicle, said brackets providing a pair of spaced axially aligned bearings, a rod reciprocably and rockably mounted in said bearings, a pawl pivotally attached to said rod, a bridge plate extending between said bearings, and a ratchet mounted by said plate for coacting with said pawl to provide a ratchet and pawl connection therebetween.

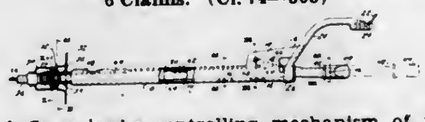
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2,644,343

## BRAKE LEVER MECHANISM

**George R. Roesch, Toledo, Ohio, assignor to The Rush Stamping Company, Toledo, Ohio, a corporation of Ohio**

**Application August 25, 1952, Serial No. 306,101**
**6 Claims. (Cl. 74—503)**



1. In a brake controlling mechanism of the class described, a tubular guide member, a slide reciprocable and rockable in said guide member, said slide being of U-shape in cross-section providing a web with a pair of legs extending therefrom, a portion of said guide member turned inwardly to provide a cam to be engaged by an edge of the slide formed by the junction of said web and one of said legs to impart a rocking movement to the slide during a pre-selected extent of its reciprocation.

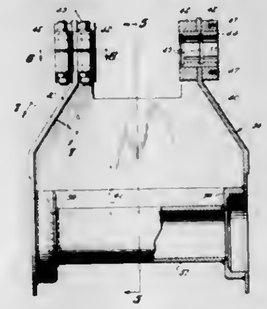
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2,644,344

## DRIVE ARM ASSEMBLY

**Albert Musschoot, Park Ridge, Richard F. Bergmann, Winnetka, and Charles M. Young, Jr., Chicago, Ill., assignors to Link-Belt Company, a corporation of Illinois**

**Original application February 4, 1949, Serial No. 74,504. Divided and this application December 6, 1950, Serial No. 199,538**
**4 Claims. (Cl. 74—588)**



1. A drive arm assembly, comprising a pair of side flanges each of said side flanges being reversely bent to provide end portions arranged in parallel planes, a web connecting the side flanges with the respective end portions of the side flanges arranged in parallelism and spaced different distances at the opposite ends of the assembly, a tubular casing connected to said web and to the end portions of said flanges which are spaced the greater distance, the end portions of said flanges which are spaced the lesser distance each having a transverse opening therethrough, and two annular members mounted one on each side of each of the last mentioned end portions of said flanges with the openings in said annular members in alinement with the said transverse openings.

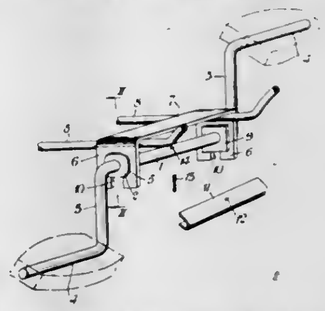
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2,644,345

## CRANK MECHANISM

**Harry Sebel, London, England**

**Application February 28, 1951, Serial No. 213,270**
**In Great Britain December 28, 1950**
**7 Claims. (Cl. 74—594.1)**

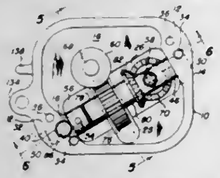


3. A crank mechanism comprising a support, a pair of bearing blocks carried by said support

in spaced relation along the crank axis and so as to be removable from said support upon movement of the respective blocks along said axis, a crank member supported in said bearing blocks for rotation thereof on said axis and provided with cranks disposed thereon in spaced relation along said axis with said blocks between said cranks, and bearing retaining means detachably mounted on said crank member between said blocks and engaging said blocks to retain said blocks in their respective crank member supporting positions in said support and upon detaching said bearing retaining means from said crank member releasing said blocks for said movement thereof along said axis so as to provide for removal of said crank member from said support.

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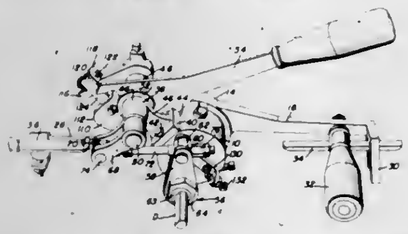
**2,644,346**
**REDUCTION GEAR UNIT**
**Albert S. Wheelbarger, Dayton, Ohio, assignor to Rockwell Register Corporation, Dayton, Ohio, a corporation of New York**
**Application November 17, 1948, Serial No. 60,612**
**11 Claims. (Cl. 74—640)**



1. In combination with a meter housing having an opening in the bottom wall thereof, drive means for meter mechanism within said housing including a gear reduction box having a gear element journalled in the base wall thereof, reduction gearing in said box drivingly connected with said gear element, means mounting said gear box on the external surface of said housing wall with said gear element in approximate coaxial relation to said opening, and means unsupported by the box walls drivingly connecting said gear element with the meter mechanism including a flexible shaft element compensating for axial misalignment between said opening and gear element.

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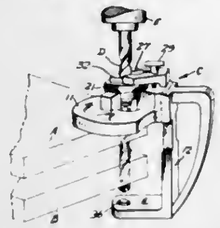
**2,644,347**
**SINGLE LEVER SAW SWAGE**
**Don Daboll, Durango, Colo.**
**Application September 7, 1951, Serial No. 245,475**
**8 Claims. (Cl. 76—54)**



1. A single lever saw swage comprising a swage block having a peripheral slot therein adapted to accommodate the toothed edge of a saw, a bearing supported on the block and disposed perpendicular to the slot, a shaft rotatably mounted in the bearing, a lever secured to the shaft for rotating the latter, a die holder rotatably mounted on said block, said block having an opening intersecting said slot and adapted to rotatably receive a die carried by the holder, means disposed on one side of the block connecting one end of said shaft to said holder for rotating the holder during swinging of the shaft, a clamping member, said block having another opening intersecting the slot and receiving the clamping member, and means disposed on the other side of the block connecting the clamping member to the other end of the shaft for movement of the clamping member as the lever is swung, said last mentioned connecting means including a cam secured to the shaft and a roller attached to the clamping member engaging the cam.

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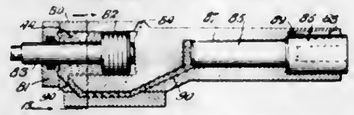
**2,644,348**
**INSTRUMENT FOR BORING ALIGNED HOLES**
**Joseph Thomas Castle, Cleveland, Ohio**
**Application December 7, 1948, Serial No. 63,912**
**1 Claim. (Cl. 77—2)**



A device for boring aligned holes in a pair of plates comprising a C-shaped frame having upper and lower arms integral with a body portion, the upper arm being in the form of a generally annular plate normal to the plane of the C and provided with a reference surface on the inner face thereof, a seat for a bearing bushing formed on the upper side of the upper arm, said arm being perforate beneath said seat, a bearing bushing insertable in the seat and positively located axially thereby, a bearing in the lower arm, the bearing and the bearing bushing being relatively fixed by the frame in constant alignment and defining an axis of rotation oriented with respect to the reference surface, a boring bar dimensioned for rotation and reciprocation in the bearing and bearing bushing and two symmetrical boring cutters on the bar, the boring cutters being smaller than the opening in the arm, all so constructed and arranged that the boring bar and cutters may be inserted from above through the opening in the upper arm and the bearing bushing may be replaced over the bar and seated in the upper arm.

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**2,644,349**
**AUTOMATIC SCREW MACHINERY**
**Donald Abrahamsen, Harrington Park, N. J.**
**Application April 26, 1952, Serial No. 284,600**
**5 Claims. (Cl. 77—33.5)**



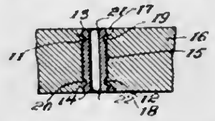
1. An automatic screw machine comprising in combination a holder for a plurality of rotatable work carrying spindles, a main tool slide for carrying a plurality of relatively fixed tools movable relative to the rotatable work carrying spindles, a tool carrying head having a piston



associated therewith, a cylinder fixed relative to the main tool slide for operably receiving the piston, a second cylinder and a piston including a piston rod movable in the second cylinder, a hydraulic relatively incompressible fluid between the first piston and one side of the second piston, the other side of the second piston being communicated with the atmosphere, and means associated with the piston rod for engagement with an element of the machine to restrict movement of the second piston, whereby hydraulic pressure of the fluid applied from the second piston to the first piston imparts an accelerated forward motion to the tool carrying head.

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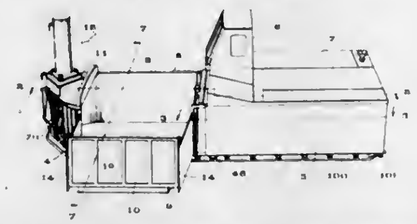
**2,644,350**
**DRILL BUSHING**
**Daniel A. Regimbald, Detroit, Mich.**
**Application January 9, 1951, Serial No. 205,151**
**1 Claim. (Cl. 77—62)**



In a drill jig bushing mounting, the combination which comprises a cylindrical bushing having a bore and having annular grooves in the outer surface and spaced from the ends thereof, and a body having a substantially cylindrical bore in which the bushing is positioned, said body having annular recesses extended around the ends of said bore and positioned in end surfaces thereof, and the material of said body displaced therefrom in the formation of said recesses being extended into the annular grooves of the bushing for retaining the bushing in position in said body.

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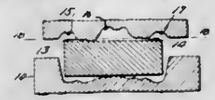
**2,644,351**
**SCRAP METAL BALER**
**Charles R. Golay, Cambridge City, Ind.**
**Application June 27, 1950, Serial No. 170,505**
**7 Claims. (Cl. 78—0.5)**



1. A baling mechanism for forming prismatic bales of scrap metal in combination, a baling bed including a pair of spaced parallel side walls, end walls curving inwardly from the parallel side walls and terminating in straight portions which are joined together at their forward ends to form two sides of a substantially square prism, a stationary supporting frame comprising two upper and two lower channels, a hydraulic cylinder fixedly supported with its axis parallel with the channel frame members, a piston in the cylinder, a piston head, a plate secured to the piston head, a frame movable longitudinally of the stationary supporting frame, supporting rollers for the movable frame, tracks for the rollers attached to the supporting frame channels and provided at their forward ends beyond the end of its supporting frame with a stop portion to arrest the forward movement of the rollers, a yoke, pivotal links connecting the yoke with the forward carriage rollers, tie rods between the piston head and the yoke, a pair of presser plates hinged together and movable in the bed with their forward faces normally in a common plane, a hinge for the presser plates supported upon the forward end of the movable frame, and swinging link connections between the rear faces of the presser plates and the front face of the piston head adapted in the further energization of the ram after the forward movement of the movable frame has been arrested to swing the presser plates forwardly and inwardly with their edges adjacent the inwardly curving walls of the baling bed to form a square prism with the joined straight portions of the forward ends of the side walls of the bed.

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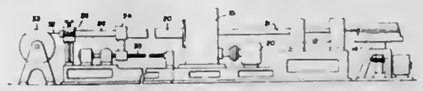
**2,644,352**
**COLD COINING**
**Lloyd E. Ressegger, Oneida, N. Y., assignor to Oneida, Ltd., Oneida, N. Y., a corporation of New York**
**Application December 22, 1944, Serial No. 569,365**
**4 Claims. (Cl. 78—81)**



1. The method of coining metal articles which comprises subjecting a blank to coining by a pair of dies, both of which force the metal of the blank faces throughout their area to flow into contact and to be molded to conform to the die contours, one of which has substantially no molding action on the side surfaces of the blank and the other of which is formed with a draft angle, whereby its molding action on the side surfaces of the blank is confined to an area adjacent one face thereof and extending only part way across the width thereof, and repeating this operation upon the partly formed blank with reversal of dies having side surface molding action and substantially no such action with relation to the faces of the blank, the side surface molding action during the repetition being also confined to an area adjacent one face thereof and extending only part way across the width thereof.

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**2,644,353**
**CABLE SHEATHING**
**Joseph E. McLaughlin, Pottsville, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application January 8, 1949, Serial No. 69,895**
**2 Claims. (Cl. 80—4)**

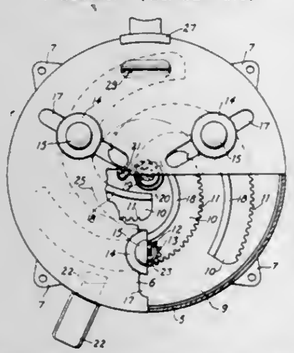


1. Apparatus for sheathing a continuous length of cable by utilizing a relatively short tubular bloom from which the sheathing is to be fabricated, comprising cable supplying means, bloom reducing means and sinking die means placed in tandem, said bloom reducing means comprising a bloom reducing and elongating die mounted therein and capable of reducing the bloom up to

98 per cent, a hollow mandrel upon which the bloom is supported for reduction and elongation by the die and through which the cable is fed from the cable supplying means, means for advancing the bloom axially along said hollow mandrel into position to be reduced and elongated by the reducing die, said mandrel being of a final size, larger than said cable to maintain a clearance relationship between the cable and the bloom during the bloom reducing and elongating operation to allow relative movement between the cable and bloom until the subsequent die sinking operation, said sinking die means comprising a die member mounted in proximity to the bloom reducing means for sinking said reduced and elongated bloom into sheathing contact with said cable with a minimum of relative movement therebetween, and sheathed cable take up means for pulling said cable from said supply means through said hollow mandrel and conjointly with said reduced and elongated bloom through said sinking die means.

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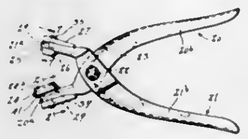
**2,644,354**
**CLOSURE REMOVER WITH JAW WHEELS CONTROLLED BY INTERSECTING CAM AND RADIAL SLOTS**
**Harold J. Schlageter, Bremerton, Wash.**
**Application November 14, 1947, Serial No. 785,916**
**1 Claim. (Cl. 81—3.3)**



A device for removing screw type lids from jars or the like comprising a case member having three radial slots therein; case member mounting means connected with said case member for mounting the same on a fixed support; a plate member disposed adjacent said case member, mounted for rotary movement as respects said case member, and provided with three helical slots which respectively intersect the said radial slots; a rack disposed on similar edge portions of each helical slot; shaft means mounted for rotary and radial movements in each of said radial slots; pinion means rigidly carried by each of said shaft means and each meshing with one of said racks, whereby said shaft means may move radially in said radial slots upon relative movement between said case and plate members; spring means urging said plate member in a direction to move said shaft means radially inwardly; handle means connected with said plate member, projecting outwardly of said case member, for urging said plate member in a direction opposite to that urged by said spring means; and wheel lid engaging means carried by each of said shaft means, whereby said wheel lid engaging means may be moved radially outwardly by said handle means and a jar lid disposed therebetween, said wheel lid engaging means will move radially inwardly and against said lid under the influence of said spring means, and said lid engaging means will tighten upon said lid upon relative angular movement in one direction between the lid and said wheel lid engaging means.

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**2,644,355**
**LENS ADJUSTING TOOL**
**John J. Greco, Brooklyn, N. Y.**
**Application May 23, 1951, Serial No. 227,851**
**6 Claims. (Cl. 81—3.6)**



1. In a lens adjusting tool having a pair of levers arranged in crossed relation and pivoted to each other at their crossed areas, opposed jaws on the levers on one side of their pivotal connection, said jaws being hollow and having open sides facing away from each other, filler blocks positioned in said jaws from the open sides thereof, a resilient body of a peripheral size less than the internal diameter of the lens mounting frames of a pair of eyeglasses positioned against the inner face of each of said jaws, the peripheral size of one resilient body being greater than the other, and means fixedly mounting said bodies in position on the inner faces of said jaws and retaining said blocks in position in said jaws reinforcing the same.

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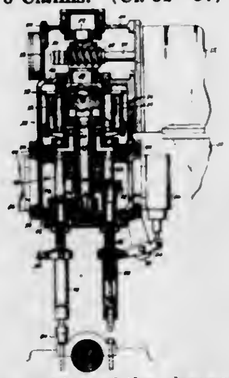
**2,644,356**
**STRAP JOINT-FORMING MECHANISM**
**William C. Childress, Oak Park, and Arvid I. Ericsson, Chicago, Ill., assignors to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware**
**Application June 15, 1950, Serial No. 168,196**
**7 Claims. (Cl. 81—9.1)**



1. A tool for producing a joint between overlapping portions of metallic strapping and an encircling metallic reinforcing sleeve, comprising a pair of spaced side plates, a pair of pivot pins held by and bridging between said side plates, a pair of folding jaws, each jaw being pivotally mounted on one of said pivot pins, said jaws having confronting hooklike tips which approach each other to clamp the strap portions and sleeve when said jaws are oppositely rocked about said pins, a pair of shearing and offsetting blades, each blade being loosely mounted on one of said pins by means of an opening therein substantially larger than said pin so that said blade and the jaw mounted on said same pin may move longitudinally relative to each other, an operating linkage pivotally connected to said jaws for rocking said jaws about said pivot pins, means including cam surfaces on said blades and a member engageable therewith carried on said linkage to rock said blades about said pivot pins, and means holding said side plates in place.



**2,644,357**
**POWER-OPERATED, GEAR-CONTROLLED MULTIPLE SOCKET WRENCH**
**Horace E. Farmer, Grosse Pointe Farms, Mich.**
**Application May 17, 1951, Serial No. 226,776**
**8 Claims. (Cl. 81—57)**



1. In an apparatus of the character described, a rotary tool movable toward and away from a work piece, power means operable to move said tool toward and away from the work piece, an electric motor for rotating said tool, an electrically operated clutch operable to couple said motor and tool together, an electrically operated control operable to control said power means, and a control responsive to torque on said tool controlling both said clutch and said electrically operated control.

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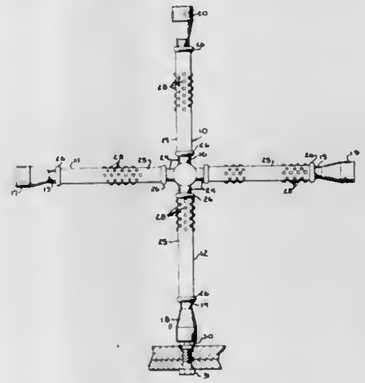
**2,644,358**
**SAFETY WRENCH FOR TUBES AND PIPES**
**Leonard C. Osborn, Salt Lake City, Utah**
**Application January 3, 1950, Serial No. 136,452**
**6 Claims. (Cl. 81—98)**



1. A minimum-gap limiting wrench comprising in combination, a handle having a head at one end thereof, a movable jaw overlapping said handle and pivoted to the same at said head end for relative pivotal movement and having a work-engaging surface confronting a work-engaging face of said head so as to grip an object therebetween upon operation of said handle, and a series of stops and co-acting manually retractable latch means on said handle and movable jaw to restrict closing movement of said jaw to a minimum-gap as determined by setting said latch means in advance of one of said series of stops.

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**2,644,359**
**SOCKET WRENCH HAVING SWIVELED GRIP SLEEVE**
**John E. Lydle, Akron, Ohio, assignor to The Ken-Tool Manufacturing Company, Akron, Ohio, a partnership**
**Application July 8, 1948, Serial No. 37,630**
**2 Claims. (Cl. 81—177)**



1. A cross-membered tool comprising a hub and four arms extending substantially at right angles to each other from the hub, said arms having work-engaging heads on the free ends thereof, operable on the work by turning the tool on the axis of respectively opposite arms, an elongated sleeve relatively rotatably mounted on each of said arms, each of said sleeves being of sufficient length to be non-rotatively gripped in the hand while the tool is rotated with the turning head of the opposite arm operatively engaged with the work, said sleeved cross-members having spaced annular ribs thereon and said sleeve having opposite end portions thereof rotatively crimped over said ribs to prevent longitudinal movement of the sleeve on its cross-member.

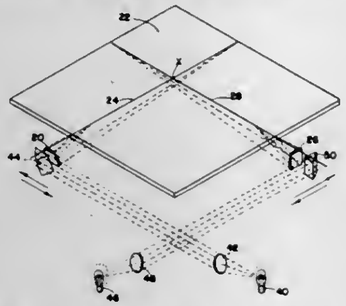
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**2,644,360**
**PITCH CHANGING DEVICE FOR MUSICAL INSTRUMENTS**
**Walter E. Smith, Ventura, Calif.**
**Application February 23, 1950, Serial No. 145,806**
**12 Claims. (Cl. 84—312)**



1. In a device for changing the pitch of a string of a lute type instrument, a base member, a sleeve mounted on said base member, said sleeve being provided with a transverse slot therein intermediate the ends thereof, an actuating bar journaled in said sleeve, a cam on said bar aligned with the slot in the sleeve, and a string engaging element seated in said slot, said element adapted to be moved by said cam in a direction to change the tension in the string upon rotation of said actuating bar.

**2,644,361**
**PROJECTION PLOTTING LENS AND OPTICAL SYSTEM**
**Edwin H. Birdsall, San Diego, Calif., assignor to the United States of America as represented by the Secretary of the Navy**
**Application September 30, 1946, Serial No. 700,258**
**5 Claims. (Cl. 88—24)**



1. A lens comprising a plano-convex longitudinal section of a truncated scalene cone, said section having a longitudinally convex outer face and a longitudinally plane rear face, a flat circular base surface and a smaller circular top surface on said section, a different radius of curvature for said section, said radius of curvature uniformly increasing with distance from the top to the base surface of said section, a loci of focal points for said section being on a substantially straight line inclined to the base of the said scalene cone, said focal points being equal to substantially two times said radius of curvature and lying beyond the center line of the cone from which said section is taken, whereby the focal length is short where the radius of curvature is small and increases with the increase in radius to produce a straight line along the loci of said focal points.

**2,644,362**
**MICROSCOPE OBJECTIVE**
**Gottfried Ravizza, Wetzlar, Karl Keiner, Berghausen, and Walter Klein, Dutenhofen, Germany, assignors to Ernst Leitz, G. m. b. H., a corporation of Germany**
**Application July 5, 1951, Serial No. 235,132**
**In Germany July 26, 1950**
**6 Claims. (Cl. 88—57)**

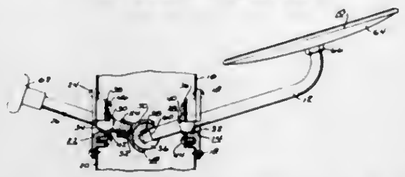


1. A microscope objective comprising a thick meniscus front lens, a plurality of converging lenses on the image side of said thick meniscus, lens elements for correcting the astigmatism caused by said thick meniscus consisting of a dispersing cemented surface in one of said converging lenses and a single negative lens positioned on the image side of said one converging lens near the rear end of said objective, said cemented surface being concave towards said thick meniscus, the curvature of said cemented surface being such that it receives the oblique principal light rays under a large angle of incidence, said front lens being the only thick meniscus in the said objective.

**ERRATUM**

For Class 88—57 see:
Patent No. 2,644,943

**2,644,363**
**REARVIEW MIRROR FOR MOTOR VEHICLES**
**Arnold P. Capitani, Detroit, Mich.**
**Application February 8, 1950, Serial No. 142,990**
**3 Claims. (Cl. 88—93)**



1. In a rear view mirror assembly for a motor vehicle having outer and inner side panels, spaced brackets secured in the outer and inner side panels, a rear view mirror, a mirror supporting arm extending through the bracket in the outer panel, a mirror position adjusting member extending through the bracket in the inner panel, the mirror supporting arm and the mirror position adjusting member each having a spherical portion nesting in a seat formed in each of the brackets for universal movement therein, motion transmitting means between the mirror supporting arm and the position adjusting member comprising relatively movable ball and socket members, the socket member having an extension adjustably threaded to the end of one of said mirror supporting and position adjusting members and the ball floatingly mounted in said socket having a bore to receive the end of the other of said mirror supporting and position adjusting members, and locking means to clamp the extension of the socket member in adjusted positions on one of said mirror supporting and position adjusting members to compensate for variations in the distance between the outer and inner side panels, the mirror carrying arm extending through the outer panel being adjusted angularly when the mirror position adjusting member extending through the inner panel is moved angularly about its support in the bracket in the inner panel.

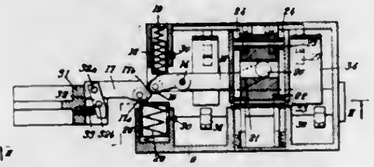
**2,644,364**
**CARTRIDGE CASE CONTAINING PROPELLING ROCKET IGNITING CHARGE AND ROCKET PROJECTILE**
**Walter R. Nass, Nots China Lake, Calif., assignor to the United States of America as represented by the Secretary of the Army**
**Application May 24, 1950, Serial No. 164,020**
**5 Claims. (Cl. 89—1.7)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



5. A round of ammunition comprising a hollow cylindrical body bent to form a shelf and having one end closed and the other end thereof open and tapered to engage a bevel in the barrel of a launcher, whereby a gas tight seal is formed, a propellent charge at the said closed end of said body, a primer within said propellent charge, a rocket projectile completely within said body, a rotating band embracing the said rocket projectile normally engaging and bonded to said shelf whereby ignition of the said primer explodes the said propellent charge to rupture the bond and force the said rocket projectile out of the said body and through the said barrel.



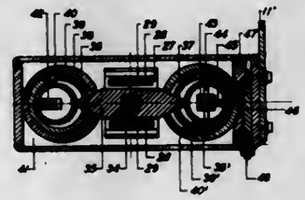
**2,644,365**
**FEED MECHANISM FOR AUTOMATIC FIREARMS CARTRIDGE BELT FEED TYPE**
**Bernard Maillard, Geneva, Switzerland, assignor to Society Brevets Aero-Mecaniques, S. A., Geneva, Switzerland, a society of Switzerland**
**Application November 10, 1950, Serial No. 194,998**
**In Luxembourg November 18, 1949**
**4 Claims. (Cl. 89—33)**



2. For use in connection with an automatic firearm of the type in which the cartridges to be brought into a position of introduction into said firearm are detachably assembled together in the form of a cartridge belt, this firearm being mounted to reciprocate with respect to its support in a direction parallel to the line of fire, rearwardly under the effect of recoil and frontwardly under the effect of elastic return means, a feed mechanism which comprises, in combination, a reciprocating sliding member movable in said support transversely to said line of fire, pawl means carried by said member for driving said cartridge belt together with said member in one direction, an oscillating lever pivoted to said support operatively connected with said sliding member for driving it, a spring push-piece movably guided in said support, a cam adapted to engage between said oscillating lever and said push-piece so as to be able to cooperate with both, link means between said cam and said firearm for causing said cam both to compress said push-piece and to pivot said lever during the recoil stroke of the firearm, said link means being arranged to leave said cam interposed between said lever and said push-piece during a portion of the frontward return stroke of the firearm, and means for temporarily keeping said cam between said lever and said push-piece during a portion of the firearm return stroke to enable said push-piece to transmit through said cam a further pivoting displacement to said lever by restoring thereto the energy stored up in said push-piece.

**2,644,366**
**MACHINE GUN MOUNT AND SHOCK ABSORBER**
**August A. Danielsen, Rosedale, and Armand P. Schleret, Babylon, N. Y., assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y., a corporation of New York**
**Application May 8, 1944, Serial No. 534,596**
**5 Claims. (Cl. 89—44)**

5. In combination, a carriage for twin guns having side firing mechanism, a pair of cradles for said guns, slide means for supporting said guns in said cradles adjacent their rear ends for longitudinal reciprocations, pivotal means for supporting said guns between their ends for elevation and depression, and means located forwardly of said pivotal means for arresting the



movement of said guns in both directions of reciprocation in increasing increments of resistance.

**2,644,367**
**METHOD OF SHAPER CUTTING GEARS**
**Walter S. Praeg, Detroit, Mich., assignor, by mesne assignments, to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont**
**Application June 28, 1948, Serial No. 35,610**
**3 Claims. (Cl. 90—7)**

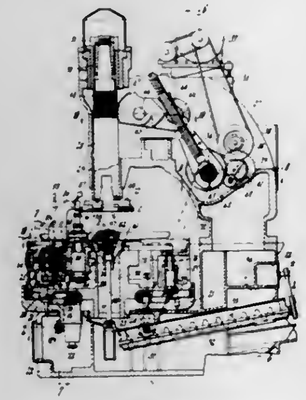


1. The method of shaper cutting helical gears with a gear-like cutter having helical teeth tiltable upon cutting contact with respect to the central portion of the cutter about an axis perpendicular to the axis of the cutter and a radial line passing through the teeth in cutting contact which comprises rotating the cutter and a gear blank in timed relation, relatively reciprocating the central portion of the cutter and gear in cutting relation in a direction parallel to the axis of the cutter, and displacing the cutting teeth a small distance circumferentially in opposite directions upon cutting strokes in opposite directions by tilting the cutting teeth about an axis perpendicular to the axis of the cutter and to a line joining the centers of the gear blank and cutter to cut one side only of the gear teeth at one time.

**2,644,368**
**MULTIPLE SPINDLE PLANETARY GEAR GENERATING MACHINE**
**Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont**
**Application November 20, 1947, Serial No. 787,047**
**15 Claims. (Cl. 90—7)**

1. A planetary gear shaping machine comprising a supporting structure, a turret mounted to rotate thereon, a cutter spindle mounted to reciprocate along the axis of the turret, a circular gear shaper cutter connected with said spindle concentrically, having peripheral planing teeth and a toothless gap at one side, a number of work spindles rotatably supported on the turret in positions for holding work pieces in operative relationship to the cutter, means for rotating the turret, means for simultaneously rotating the work spindles relative to the turret at a rate cor-

responding to the pitch circle ratios of the cutter and work pieces, means for stopping the rotation of the turret when each work spindle approaches the further limit of such gap after having passed the nearer limit thereof, means for starting rotation of the turret, and means interconnecting said stopping and starting means to cause actuation of said stopping means should said starting means remain inoperative.

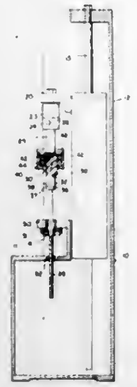


5. A planetary gear shaping machine comprising a supporting structure, a cutter spindle mounted to reciprocate endwise in said structure, a circular gear shaped cutter detachably secured to one end of said spindle, a turret mounted on the supporting structure rotatably thereon in axial alinement with the cutter spindle, work spindles carried by the turret in locations spaced around said axis for holding work pieces in cutting relation to the cutter and carrying such work pieces around the cutter, means for reciprocating the cutter spindle, means for rotating the turret, means for rotating the spindles relatively to the turret around their own axes in planetary timing with respect to the cutter, a jack mounted on the turret centrally thereof, and means for moving said jack toward and away from that part of the cutter spindle on which the cutter is mounted, said jack being adapted to support the cutter concentrically with the spindle when the cutter is detached from the spindle and carry it toward or away from the spindle.

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**2,644,369**
**BROACHING MACHINE**
**Walter S. Praeg, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan**
**Application May 17, 1948, Serial No. 27,420**
**6 Claims. (Cl. 90—10)**

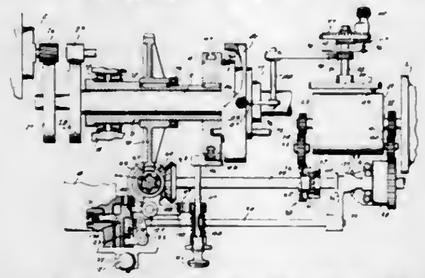
1. Apparatus for broaching helical parts comprising a fixed work support, a broach puller carriage, a drawbar rotatably mounted on said carriage coaxially of said work support and having means at one end for releasably engaging a broach, helical guide teeth on said drawbar of an axial extent of approximately one-third the length of the cutting portion of the broach, a fixed guide nut of relatively short axial extent positioned to be engaged with the guide teeth at the end thereof remote from said broach engaging means upon initiation of cutting by the broach, the axial extent of the guide teeth and nut being such that the broach is rotated thereby during approximately the first third of the



cutting stroke and is thereafter rotated solely by its engagement with the work piece.

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**2,644,370**
**PATTERN CONTROLLED MILLING MACHINE**
**Joseph B. Armitage, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin**
**Application December 20, 1947, Serial No. 792,997**
**14 Claims. (Cl. 90—13.4)**

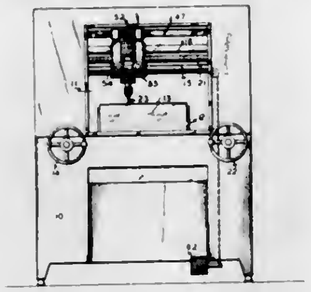


7. In a pattern controlled machine tool, a tool support, a cooperating relatively movable and rotatable work support, and an automatic feed regulating transmission mechanism, said mechanism comprising a variable speed transmission, a cam adapted to be rotated by said work support, an axially slidable cam follower having a gear rack integrally formed thereon adapted to be moved by said cam, intermediate gearing connected for actuation by said cam follower and movable to adjust said variable speed transmission whereby the rotational feed rate of said work support may be predeterminately controlled, and a manual control lever selectively connectible to adjust said variable speed transmission.

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**2,644,371**
**ROUTER WITH ADJUSTABLY MOUNTED DRILL FOR STEREOTYPE PLATES**
**Craig C. Baker, Los Angeles, Calif.**
**Application March 14, 1949, Serial No. 81,220**
**3 Claims. (Cl. 90—14)**

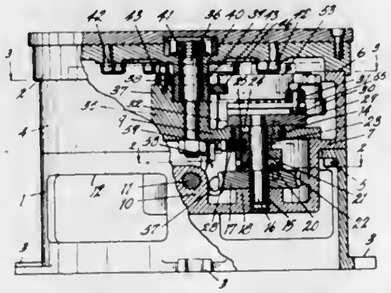
1. In a router of the character described, the combination of a rotatable work support mounted on a fixed horizontal axis, means for rotating said work support, a router head, means supporting said router head a fixed distance above said work support, said router supporting means including a pair of stationary horizontal bars extending parallel to said axis of said work support, means for moving said router head transversely on said horizontal bars, a spindle assembly, a mounting in said router head for said spindle assembly, said spindle assembly rotatably supported in said mounting for rotation on a substantially vertical axis, means for rotating said spindle assembly, means for moving



said mounting and therewith said spindle assembly up and down in a substantially vertical direction in said router head, said means for moving said mounting including a spring element normally holding said mounting in raised position and a flexible element and pulley assembly for enabling a downward pull to be exerted on said mounting in opposition to said spring element, and means limiting the latter mentioned movement of said mounting in opposition to said spring.

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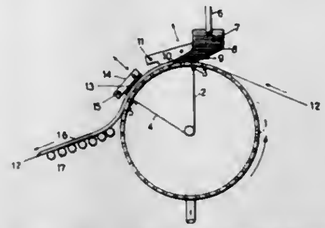
**2,644,372**
**INDEXING WORK SUPPORT**
**Raymond L. Hamill, Grass Lake, Mich.**
**Application March 5, 1951, Serial No. 213,934**
**8 Claims. (Cl. 90—57)**



8. In a turret type work holding device having a table rotatably mounted on a support, a plurality of annulary arranged projections depending from said table, an indexing drive shaft rotatably carried by said support, means oscillatively driven by said shaft and engageable with successive projections on said table to index said table, a cam driven in timed relation to said shaft, and a lever pivoted on said support and swingable toward and away from said projections, said lever having a locking and locating notch therein adapted to receive one of said projections, said lever having a portion driven by said cam to swing said lever away from said projections prior to indexing motion of said table.



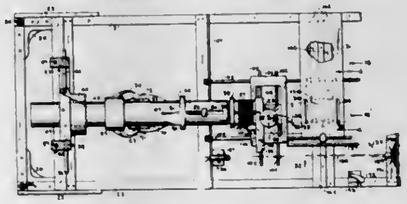
**2,644,373**
**APPARATUS FOR THE CONTINUOUS PRODUCTION OF CEMENT-FIBER SHEETS**
**Pino Salvaneschi, Broni, Italy**
**Application July 31, 1947, Serial No. 765,092**
**In Italy October 31, 1942**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires October 31, 1962**
**7 Claims. (Cl. 92—43)**



1. A device for making cement-asbestos sheet material comprising a revolving drum rotating about a horizontal axis and having a permeable cylindrical wall, a permeable belt travelling around said drum for an angle of less than 360°, means for creating a vacuum at the inside of part of the portion of said cylindrical wall covered by said belt, a hopper for discharging a pasty cement-asbestos mixture downwardly onto the initial portion of said part of the belt and including a surface lying against said initial portion of said part of the belt on said drum, a second surface lying on said belt in succession after said first mentioned surface, means for oscillating said first mentioned and said second mentioned surfaces in directions angularly disposed to said respective surfaces, and means for removing the material formed on said belt after the belt has left the drum.

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**2,644,374**
**PAPERBOX COVERING MACHINE**
**Louis Schwab, Astoria, N. Y.**
**Application November 12, 1948, Serial No. 59,731**
**3 Claims. (Cl. 93—54.3)**

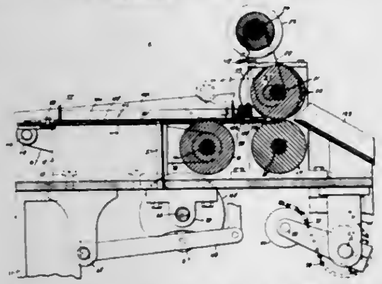


1. In a machine operable relative to a four-sided open-top box and an adhesively coated wrapper preparatorily applied at its coated side to the exterior of the box and merely at a central portion of the wrapper to the bottom of the box and at two opposite side portions of the wrapper to two opposite sides of the box, in combination, an electromagnetically operated means for first applying the four terminal subdivisions of said side portions of the wrapper to the other two sides of the box, an electromagnetically operated means for next applying the other two opposite side portions of the wrapper to the two last-named sides of the box, said four side portions of the wrapper being so dimensioned that after the operations of the two means aforesaid marginal subdivisions of the wrapper are extended beyond the plane of the open top of the box all

around said top, an electromagnetically operated means for inturning all said marginal subdivisions into the interior of the box and laying the same against said interior all around and adjacent to said top, an automatically functioning circuit connecting said first, second and third means together for timing a cycle of operations of the machine during which the second-named means is actuated following actuation of the first-named means and the third-named means is actuated following actuation of the second-named means, a control means in said circuit including a manual actuator, an electric-eye means, a platform for receiving and supporting and allowing passage therealong of a box and its wrapper, a stop means for halting advance of the box and its wrapper beyond a predetermined location on the platform and thereby detaining the box and its wrapper adjacent to the fields of operation of the three first-named means, and means responsive to an actinical change of condition of said electric-eye means for retracting said stop means to allow passage therebeyond of the wrapped box.

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**2,644,375**
**COMBINATION LINING AND EDGE FINISHING MACHINE**
**Louis Triolo, Brooklyn, N. Y.**
**Application June 29, 1951, Serial No. 234,373**
**4 Claims. (Cl. 93—62)**

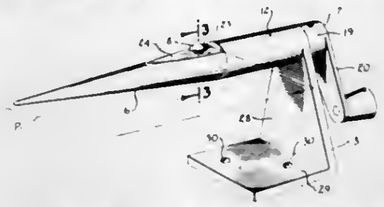


1. A combination lining and edge finishing machine for superimposed blanks, the lowermost of which is provided with adhesive applied flaps along the front edge and two opposed longitudinal edges, such machine comprising a frame, a platen provided with work-locating guides mounted on the frame, plural sets of upper and lower rollers journaled in the frame and whose meeting peripheries are generally planar with the platen, brushing means for initial folding of the front flap, and side folding members for initial folding of the side flaps, each folding member being provided with a side wall which merges into a descending surface, spring means for urging the folding members toward the blanks, means for driving the lower rollers, upwardly swingable arms supporting the first upper roller to allow for positioning the blanks upon the platen, and rack-and-pinion means for moving the arms downwardly.

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**2,644,376**
**PAPER TUBE WINDING APPARATUS**
**Joseph H. Raymond, Chicago, Ill.**
**Application January 10, 1952, Serial No. 265,776**
**11 Claims. (Cl. 93—79)**

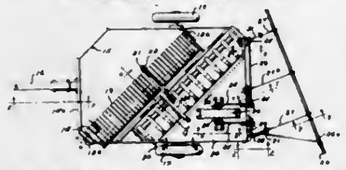
1. A paper tube winding device, comprising: a support having a bore therein opening to opposite sides of the support; an elongated mandrel having a journal at one end projecting into said bore from one side of the support to rotatably mount the mandrel on the support, said journal having an axial bore therein terminating in a cross bore opening to one side of the mandrel adjacent to its junction with said journal; a driver for the mandrel projecting into the bore of the journal from the opposite side of the support and rotatable in said journal relative to the mandrel; a clamping bolt slidable in the crossbore and having a head on its outer end overlying the adjacent surface of the mandrel and cooperable therewith to clamp a piece of paper to be wound into a tube against the exterior of the mandrel upon sliding of the bolt in one direction



in the crossbore; and eccentric bolt actuating means on the driver projecting into said crossbore and engaged with the bolt to shift the same in opposite directions in the crossbore, to and from an operative clamping position, in consequence of rotation of the driver in opposite directions relative to the mandrel, the head of the bolt, when in clamping position, limiting relative rotation in one direction between the driver and the mandrel to thus drivingly connect the mandrel to the driver for rotation therewith in said direction.

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**2,644,377**
**ROAD TREATING MACHINE**
**George E. Hawkins, Dummerston, Vt.**
**Application December 4, 1946, Serial No. 713,860**
**5 Claims. (Cl. 94—44)**

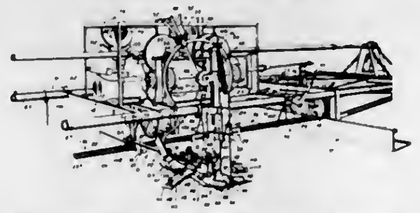


1. In a machine for treating a roadbed upon which bitumen and aggregates have been deposited, a wheeled frame, a support mounted on said frame and extending transversely thereof at an acute angle to the line of draft of the frame, a plurality of spaced spring teeth secured to and depending from said support for engagement with the bitumen and aggregates, a second support mounted on the frame rearwardly of the first named support and extending transversely of the frame in substantial parallelism to the first named support, a plurality of spaced spring teeth secured to and depending from said last named support, the teeth on said last named support being spaced apart a greater distance than the teeth on the first named support, a plurality of blades carried by the free end of the teeth on the second named support with a blade connecting a group of adjacent teeth, the length of each blade being such as to provide an overlapping of the ends of adjacent blades to present a flexible working edge extending throughout the length of the second named support, and an imperforate distributing member mounted on the frame rearwardly of said first and second named supports extending transversely of the frame at an acute angle opposite to the angles of the first and second named supports, the imperforate distributing member being of such length as to extend beyond the outer extremities of said first and second named supports whereby during movement of the frame along the roadbed the teeth on the first named support will admix and move a portion of the bitumen and aggregates toward one end of the first named support to produce a windrow, the residue of the bitumen and aggregates being admixed and moved by the blades on said second named support toward the windrow formed by the first named teeth, and the said distributing member being adapted to move the admixed bitumen and aggregates from the windrow upon the roadbed in a smooth even manner.



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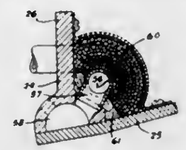
**2,644,378**
**GROOVING AND FLEXIBLE FORM INSTALLING ATTACHMENT FOR ROAD PAVING MACHINES**
**George T. Nelson, Lebanon, Tenn.**
**Application October 18, 1948, Serial No. 55,118**
**10 Claims. (Cl. 94—45)**



1. A concrete road paving and finishing machine of the class shown and described comprising a powered mobile carriage embodying framework adapted to transversely span the concrete pavement in the making, a horizontally elongated centrally positioned concrete grooving shoe suspended from and beneath said framework, said shoe serving to plow the groove, a vertical knife mounted for reciprocation on the forward portion of the framework at the leading end of said shoe, the lower end of said knife being adapted to penetrate the concrete and to thus initiate the plowing of said groove, a pair of duplicate V-shaped tamps arranged in parallelism on opposite sides of the forward portion of said shoe, said tamps having vertical rocking levers pivotally and swingably mounted directly on said shoe in close proximity to said knife and means on said framework for operating said levers and imparting a cradle motion to said tamps.

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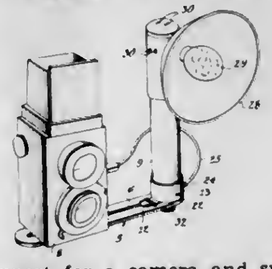
**2,644,379**
**PAVING MACHINE**
**Clarence A. Lowe, Columbus, Ohio**
**Application January 29, 1946, Serial No. 644,071**
**8 Claims. (Cl. 94—48)**



2. A tamping machine comprising, in combination a tamping shoe; a prime mover including a rotating shaft, said prime mover being rigidly attached to and above the shoe; bearing support means carried by and above the shoe; shaft means journaled in the bearing support means and arranged in longitudinal alignment with the prime mover shaft; flexible connecting means between said shaft means and the prime mover shaft; eccentric weight means on and actuated by the shaft means, said shoe being relatively narrow with respect to its length forming an elongated substantially flat tamping surface and said prime mover shaft and said shaft means being arranged substantially parallel with the length of said surface, the center of mass of the aforementioned elements, carried by the shoe, lying to one side of a vertical plane perpendicular to said tamping surface and extending lengthwise of the shoe and intersecting the shoe at a point midway of the width of said surface.

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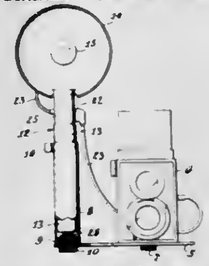
**2,644,380**
**ADJUSTABLE SUPPORT FOR CAMERAS AND SYNCHRONIZERS**
**Samuel Mendelsohn, Glen Ridge, N. J.**
**Application November 30, 1949, Serial No. 130,141**
**5 Claims. (Cl. 95—11.5)**



1. A support for a camera and synchronizer unit comprising an elongated member, securing means movable to various positions longitudinally of said elongated member and engageable with a camera for adjustably securing said camera to said elongated member, an annular member pivotally connected to the end of said elongated member remote from said camera for detachable connection to the battery case portion of a synchronizer unit to enable said elongated member to be folded substantially parallel to said synchronizer unit battery case portion for storage and shipment, and locking means carried by said elongated member and engageable with said annular member for securing said synchronizer unit battery case portion in a perpendicular position relative to said elongated member and to prevent pivotal movement therebetween preparatory to connection of said support to a camera.

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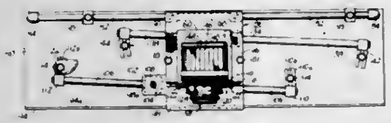
**2,644,381**
**SUPPORT AND HANDLE FOR CAMERAS AND SYNCHRONIZERS**
**Samuel Mendelsohn, Glen Ridge, N. J.**
**Application November 30, 1949, Serial No. 130,142**
**4 Claims. (Cl. 95—11.5)**



1. A support and handle for a camera and synchronizer unit comprising a base member adapt-

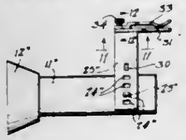
ed to be secured to a camera and to extend a substantial distance in a horizontal plane relative to the upright portion of said camera, an elongated cylindrical sleeve having its closed end pivotally connected to the end of said base member opposite that to which the camera is secured and extending normal thereto to form a handle and adapted to be engaged by the battery case portion of a synchronizer unit in various telescopic positions relative thereto, and locking means carried by said elongated sleeve and engageable with the battery case portion of said synchronizer unit when inserted therein to retain the latter in its various telescopic positions relative to said elongated sleeve when inserted therein.

**2,644,382**
**APPARATUS FOR PRODUCING STEREOSCOPIC PICTURES**
**Waldemar A. Ayres, Kew Gardens Hills, N. Y.**
**Application February 16, 1949, Serial No. 76,784**
**13 Claims. (Cl. 95—18)**



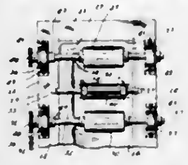
1. In a camera for taking stereoscopic photographs, having a case, a film plane within said case, a lens board, a lens on said lens board, and a bellows extending between said lens board and said case, the combination of a screen of vertically oriented optical elements positioned parallel to said film plane and between said film plane and said lens board, and a plurality of arms pivotally attached at one end to said lens board and at the other end to said case and arranged to permit horizontal movement of said lens board relative to said case and parallel to said film plane through a range of lateral positions at least of such extent that the angle subtended at the axis of each of said optical elements by the extremes of movement of the optical axis of said lens is of the same order of magnitude as the angle subtended at the axes of said optical elements by opposite portions of said film plane of the same width as the horizontal spacing of said optical elements.

**2,644,383**
**INVERTOSCOPE FOR PHOTOGRAPHIC CAMERAS**
**Ludwig Meditz, New York, N. Y.**
**Application August 19, 1950, Serial No. 180,494**
**3 Claims. (Cl. 95—44)**



1. An invertoscope for cameras having a walled hood through which an image focused on a ground glass screen within the camera can be viewed, which comprises a barrel threaded externally at one end and internally at the other end, an eye piece mounted on the externally threaded end, a retainer ring mounted in the internally threaded end, an internal annular flange at the eye piece end of the barrel, a lens mounted in the barrel against said ring to invert the said image, a lens mounted in the barrel against said flange to magnify the reinverted image, a sleeve within the barrel spacing apart said lenses, a pair of diametrally opposed rectangularly cross-sectioned lugs projecting from the barrel near the end away from the eye piece with the longer dimension aligned with the barrel, a yoke having a span equal to the diameter of the barrel, a plurality of vertically spaced holes in each side arm of the yoke, an opposed pair of said holes being engaged on said lugs to support the yoke transversely to the barrel, an arm projecting from the cross piece of the yoke beyond the end of the barrel, and a spring clip secured atop said arm, said arm being engaged beneath and the spring clip above the top wall of the hood.

**2,644,384**
**DEVELOPER FOR CONTINUOUS STRIP OF PHOTOGRAPHIC PAPER**
**Valmore J. Forgett, Ridgefield, N. J., assignor to Sweco Products, Inc., Ridgefield Park, N. J., a corporation of New Jersey**
**Original application July 24, 1947, Serial No. 763,411, now Patent No. 2,461,419, dated February 8, 1949. Divided and this application December 8, 1948, Serial No. 64,135**
**2 Claims. (Cl. 95—94)**

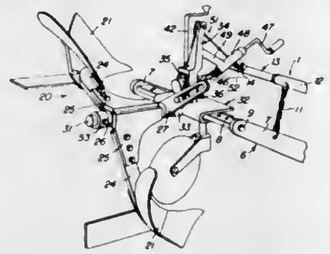


1. In a developer for paper strips including a plurality of tanks for liquids that are used to develop, fix and wash the strip, the combination with said tanks of rollers over which the strip passes in traveling successively through the liquids in the different tanks, said rollers including a roller within each tank in position to reverse the run of the strip in the tank, other rollers located between the tanks in position to reverse the run of the strip between successive tanks, said other rollers between successive tanks being of progressively larger diameter toward the strip discharge end of the developer to compensate for increased length caused by stretching of the strip while wet, and said other rollers having smooth peripheral surfaces that slip on the surface of the wet paper when the paper tension reaches a predetermined value, which value is substantially less than the tension required to tear the paper, common power driving means, and mechanism through which the common power driving means rotates said other rollers at equal angular speeds.

**2,644,385**
**REVERSING AND LEVELING MEANS FOR TWO-WAY PLOWS**
**Theophilus Brown, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application July 26, 1950, Serial No. 175,953**
**11 Claims. (Cl. 97—26)**

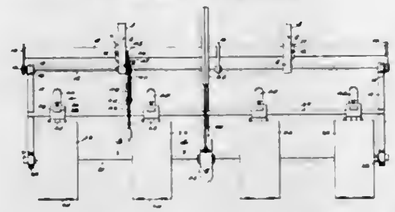
1. A two-way plow comprising a plow-carrying beam structure rockable about a generally fore and aft extending axis, means for raising and lowering said beam structure for raising and lowering said plows into and out of operation, means for swinging said beam about said axis for reversing said plows, said swinging means being movable relative to said beam for varying the amount of movement of said beam for a given operation of said swinging means, and





means for shifting said swinging means relative to said beam for positioning the plow in operating position to accommodate different depths of plowing.

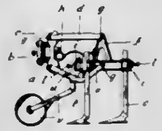
**2,644,386**
**ROTARY SOIL TILLER**
**John H. Sutton, Los Angeles, Calif.**
**Application October 9, 1947, Serial No. 778,824**
**3 Claims. (Cl. 97—40)**



1. A soil tiller adapted to be attached to a farm tractor of the type having a power take off, said tiller comprising a draw bar carried by the tractor for rotation about a horizontal axis which extends perpendicularly to the longitudinal axis of the tractor, crank plates carried by the draw bar and extending laterally therefrom, a rock shaft mounted in the crank plates for rotation about an axis which lies parallel to the horizontal axis, supporting arms carried by the rock shaft for movement therewith about the parallel axis, a tiller shaft carried by the supporting arms for rotation about a horizontal axis which lies in spaced parallel relation to the parallel axis, earth working implements mounted on the tiller shaft for rotation thereby and means connected to the power take off and to the tiller shaft for establishing driving connection between the power take off and the implement shaft.

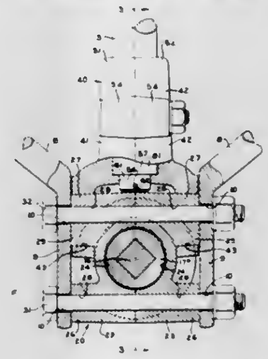
**2,644,387**
**PARALLELOGRAM MOUNTED CARRIER FOR CULTIVATOR TOOLS**
**Heinrich Kamplade, Windsheim, Germany, assignor to Maschinenfabrik Schmotzer G. m. b. H., Windsheim, Bavaria, Germany, a company of Germany**
**Application April 17, 1952, Serial No. 282,780**
**In Germany February 26, 1951**
**3 Claims. (Cl. 97—198.1)**

1. A multiple-purpose tool holder for a mobile farming implement comprising a frame of substantially parallelogram form disposed in a vertical plane, said frame having a forward vertical link, an upper horizontal link, a lower substantially horizontal link, said horizontal links being connected to a rear vertical link that includes a horizontal member, said horizontal member extending forwardly and rearwardly from its point of attachment to said lower horizontal link, said horizontal member having ends



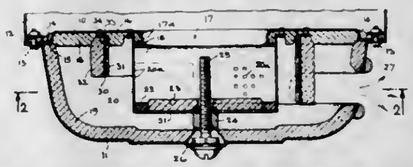
with intersecting horizontal and vertical openings therein, said openings serving as points of attachment for exchangeable tools, and means for adjustably securing said tools in said openings.

**2,644,388**
**BEARING CONSTRUCTION FOR DISK HARROWS**
**William P. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application September 4, 1947, Serial No. 772,069**
**14 Claims. (Cl. 97—220)**



10. In a bearing construction for disk harrows and the like, a two part bearing sleeve comprising a pair of mating sections having upper and lower openings, clamping bolts disposable in said openings for fastening said bearing sections together, and yoke-receiving bosses disposed on the upper portion of said bearing sections generally about the upper bolt holes therein.

**2,644,389**
**DIFFUSER FOR AIR CONDITIONING SYSTEMS**
**George S. Dauphinee, Brooklyn, N. Y., assignor to W. B. Connor Engineering Corp., New York, N. Y., a corporation of New York**
**Application October 27, 1949, Serial No. 123,927**
**12 Claims. (Cl. 98—40)**

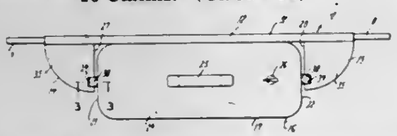


9. An air outlet device for connection to the opening of an air supply duct, comprising a casing for connection to said supply duct and de-

fined by a base member and a cover piece depending therefrom, said base member being dished upwardly to define a peripheral attachment flange and an inner elevated portion adapted to be disposed on a level slightly above said duct opening, said base member having a centrally disposed air inlet orifice provided with a rolled, rounded air-impact edge, the inner surfaces of said cover piece and said base member including said air-impact edge being lined with sound absorbing material, said cover piece having an air outlet orifice, said cover piece supporting a perforated cylinder communicating at its upper end with said inlet orifice to define a separate compartment occupying a portion of the space within said casing between said inlet and outlet orifices, concentric cylindrical baffle members supported by said cover piece and disposed externally of said perforated cylinder, alternate sectors of said baffle members being perforated and lined with sound damping material, the perforated sectors of a given baffle member being in alignment with the sound-damped sectors of an adjacent baffle member, a damper member slidable within said perforated cylinder, and actuating means for said damper member operable externally of said cover piece.

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**2,644,390**
**REVERSIBLE-FLOW WINDOW FAN**
**George A. Delf, Creve Cour, and Glenn A. Delf, University City, Mo.**
**Application January 5, 1950, Serial No. 136,998**
**10 Claims. (Cl. 98—94)**

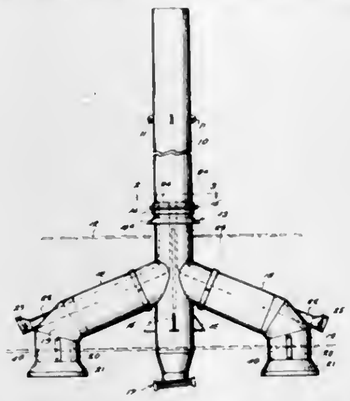


8. In an axially transposable electric power assembly, a driving motor, a rotary unit driven by the motor, a frame by which said unit and motor are carried, a frame support at each side of the frame, the supports serving to locate the power assembly in a fixed position of use, each such support having a recessed seat formed therein, a projection at each side of and serving to carry the weight of the frame and contents, each projection being normally in interfitting and wedging engagement with one of said seats, said projections being centered depthwise of the frame whereby either projection may engage either seat, permitting endwise reversal of the frame incident to lifting, turning and reseating the frame, while preserving a substantially constant relation of the frame to the frame supports.

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**2,644,391**
**FORCED DRAFT VACUUM STACK FOR MILK DRIERS**
**George E. Shaw, Neillsville, Wis.**
**Application September 23, 1949, Serial No. 117,454**
**1 Claim. (Cl. 98—115)**

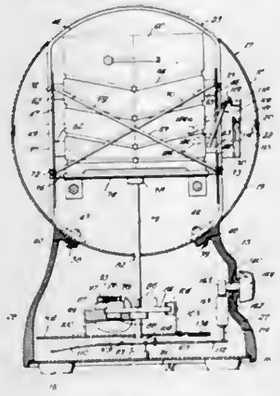
An apparatus of the character described comprising a vertical stack extending through a roof, an annular water-shedding canopy affixed to the stack immediately above the roof, a pair of feed pipes connected with said stack adjacent the lower end thereof, each of said feed pipes having a main portion extending downwardly and outwardly from said stack and having a vertically dependent portion at the outer end thereof, a vertical baffle plate extending diametrically across the interior of the stack between the junctures of said feed pipes therewith and from a point below to a point above the junctures of the feed pipes therewith, a damper in each of the vertical portions of said feed pipes, an air duct extending through each of the main portions of said feed pipes and



thence upwardly in said stack to a point above said baffle, an enlarged portion at the outer end of each of said air ducts exterior to said feed pipe, a blower mounted in each of said enlarged portions, and a manhole cover removably mounted at the lower end of said stack.

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**2,644,392**
**TOASTER**
**Cyril J. Foster, Chicago, Ill., assignor to Etc., Inc., Niles, Mich., a corporation of Michigan**
**Application June 6, 1949, Serial No. 97,380**
**3 Claims. (Cl. 99—329)**



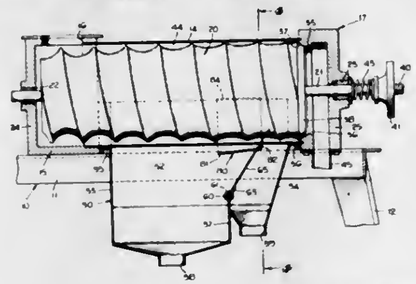
1. In an automatic toaster operable when connected to an electrical power source for toasting bread slices and the like, the combination comprising a housing having openings therein for the insertion of a bread slice and for the passage of a toasted slice from the housing, heating elements within the housing for toasting both sides of a bread slice when inserted through one of said openings, a trap element mounted within the housing for retaining a bread slice therein while toasting and movable to release the toasted bread slice for passage from the housing by gravity through the other of said openings, a switch actuating element mounted within the housing



and having a normal position from which it is moved by the insertion of a bread slice, and an electrically operated control and actuating mechanism for effecting actuation of the trap element and for controlling the toasting time, said control and actuating mechanism including a first switch having normally open contacts and responsive to movement of said switch actuating element from its normal position for effecting closure of the contacts, a second switch of the single pole double throw type normally biased to a position such that it has normally open and normally closed contacts, a solenoid having a winding connected to the power source through the contacts of the first switch and the normally closed contacts of the second switch, a movable member operated by said solenoid and having parts for effecting actuation of the trap element and for actuating the second switch to open the normally closed contacts and close the normally open contacts thereof, and a timing element controlled by the normally open contacts of the second switch for effecting return of the contacts of the second switch to their normal positions, and said normally open contacts of the second switch being connected to provide a circuit from the power source to the heating elements.

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**2,644,393**
**JUICE SEPARATOR**
**Carl Harden, Whittier, Calif., assignor to Brown Citrus Machinery Corporation, Whittier, Calif., a corporation of California**
**Application November 17, 1951, Serial No. 256,906**
**5 Claims. (Cl. 100—105)**

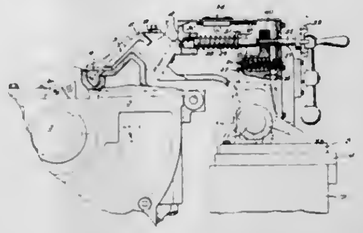


1. In combination with a citrus juice finisher of the type having a feed screw and a screen surrounding said screw, a juice collecting pan mounted below said screen, said pan having a pair of spaced outlet openings, a baffle plate pivotally secured to said pan, and a juice cut-off device slidably mounted under said screen and having an arcuate portion closely adjacent said screen and concentric therewith, said device and said baffle cooperating with said screen for selectively diverting citrus juice therefrom into said outlet openings.

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**2,644,394**
**ROTARY INTAGLIO DOCTOR MECHANISM**
**Charles A. Harless, Riverside, Conn., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York**
**Application December 14, 1948, Serial No. 65,155**
**11 Claims. (Cl. 101—157)**

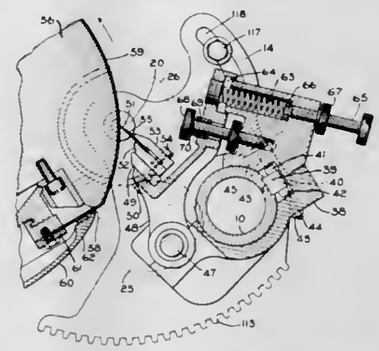
5. In a rotary intaglio doctor mechanism, and in combination, a shaft, doctor supporting arms pivotally mounted on the shaft, operating arms fixed to the shaft, spring means acting between the doctor supporting arms and the said operating arms for regulating the doctor pressure, means for rotating the shaft to swing the doctor



to and from operating position and spring means for counterbalancing the weight of the doctor and other parts carried by the shaft.

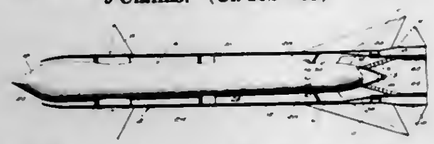
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**2,644,395**
**RECIPROCATING DOCTOR BLADE MECHANISM**
**Henri E. Peyrebrune, River Forest, Bruno B. Pasquinelli, Chicago, and Benjamin L. Sites, Elmhurst, Ill., assignors to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a corporation of Delaware**
**Application March 22, 1949, Serial No. 82,804**
**5 Claims. (Cl. 101—157)**



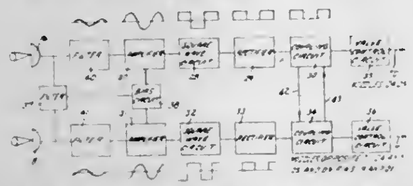
2. In an intaglio printing press of the class having a reciprocating doctor blade for removing excess ink from a printing form, mechanism for actuating the doctor blade, including a supporting shaft, a plurality of bracket members mounted on said shaft for reciprocating movement axially thereon, a secondary shaft carried by said brackets, a series of arms pivotally mounted on said secondary shaft for supporting the doctor blade, mechanism having operation to rock said supporting shaft and therewith the doctor blade bodily about an axis coincident with the wiping edge of the blade to thereby vary the angle of said blade with respect to the printing form, resilient spring means interposed between the brackets and said arms for urging said arms and thereby the doctor blade into contact with the printing form, adjustable screw means carried by said brackets for engagement with said spring means and operable to vary the tension of the spring means on said arms, and adjustable stop means comprising a screw member having its threaded end inserted through an opening in said arm and engaged in said brackets for limiting the extent of movement imparted to said arms by said spring means.

**2,644,396**
**AERIAL MISSILE**
**Louis S. Billman, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application October 1, 1948, Serial No. 52,170**
**9 Claims. (Cl. 102—49)**



6. A ram jet including a duct having an inlet passage at one end and a thrust nozzle at the opposite end, means for introducing fuel to said ram jet between the inlet and the nozzle, and means for igniting said gases, in combination with a pulse jet partially positioned within said nozzle, said pulse jet having its open inlet end located within the ram jet to receive the gas therefrom, said pulse jet including a combustion chamber having the gases therein ignited by said ram jet igniting means, and a thrust nozzle communicating with and receiving gas from the combustion chamber.

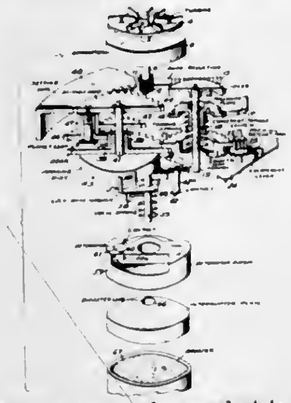
**2,644,397**
**PROJECTILE CONTROL SYSTEM**
**Leonhard Katz, Dayton, Ohio**
**Application January 6, 1945, Serial No. 571,644**
**8 Claims. (Cl. 102—50)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A projectile of the character described, comprising a body portion, four wings radiating from and adjacent the lead end of said body portion and coplanar with each other in pairs, sound detectors in the lead edges of coplanar pairs of said wings, four fins adjacent the trailing end of said body portion and each of said fins being substantially coplanar respectively with one of said wings, gas jet emitting means forming a part of each of said fins for directing the flight course of the projectile, phase difference control means operating said gas jet emitting means from said sound detectors, and means for blocking the operation of said phase difference control means upon reception of a predetermined signal by said sound detectors.

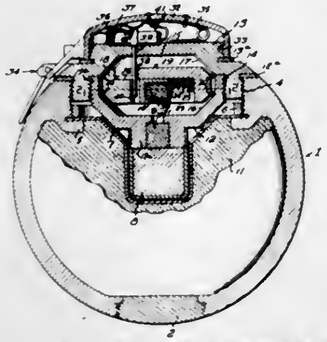
7. In a directional system including at least two channels for receiving wave energy generated by a moving source, wherein the phase of the received energy in one of said channels differs with respect to the phase of received energy in the other of said channels due to the direction of reception of said energy: means in each of said channels for squaring said wave energy, means interconnecting said channels for enabling the first one of said channels receiving said energy to deactivate the other of said channels in response to and for at least the duration of each square wave in said first channel, and utilization means connected to the square wave outputs of said channels and responsive thereto.

**2,644,398**
**CONSTANT TORQUE CLUTCH**
**Jacob Rabinow, Washington, D. C., assignor to the United States of America as represented by the Secretary of the Army**
**Application December 17, 1947, Serial No. 792,252**
**5 Claims. (Cl. 102—70.2)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. An arming system for an electric fuze comprising a wind vane in the nose of said fuze, a shaft driven by said wind vane, a clockwork timer driven by said shaft, a powder train interrupter including an element movable from a safe position into an armed position, a latch for retaining said element initially in the safe position, spring means biasing said element into the armed position, means controlled by said timer for releasing said latch from said retaining position after a predetermined time of operation of said timer, and a high speed generator driven by said shaft for supplying power to said electric fuze, and a friction clutch between said shaft and said clockwork timer.

**2,644,399**
**GRENADE ALL-WAYS FUZE**
**Dallas C. Knowlton, Arlington, Va.**
**Application September 29, 1949, Serial No. 118,661**
**1 Claim. (Cl. 102—81.6)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

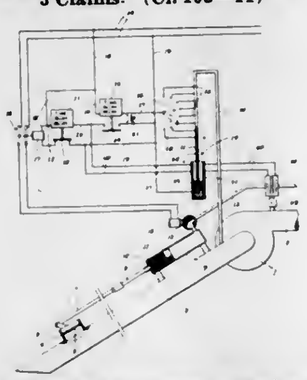


In a fuze adapted to fit a grenade, a hollow body having upper and lower members threadedly engaged and forming a chamber for housing resiliently telescopically engaged firing elements, said chamber having vertical walls intermediate inwardly directed walls, said firing elements being



substantially rectangular in shape and having their outer ends conforming to the contours of said chamber, one of said firing elements being slotted laterally and vertically to form two pairs of U-shaped legs, a firing pin fixed in the bottom of said lateral slot intermediate said pairs of legs, a spring fixed at one end within the confines of each pair of legs and each having its free end arranged to engage the other of said firing elements, the other of said firing elements being substantially longitudinally T-shaped in cross section to slidably engage the walls of said lateral and vertical slots, the inner end of said cross section engaging said springs resiliently spacing said firing elements to slidably engage the walls of said chamber, each of said firing elements being provided with hemispherical projections at their outer ends to engage the walls of said chamber, the vertical element of said cross section housing a primer in axial alignment with said firing pin and in communication with a detonator in said lower body member.

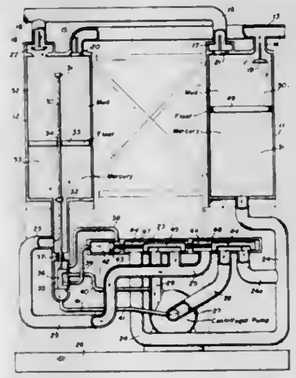
**2,644,400**
**CONTROL CIRCUIT FOR EMERGENCY RELIEF VALVE OF A DREDGE**
**David L. Hofer, Berkeley, Calif.**
**Application June 24, 1950, Serial No. 170,075**
**3 Claims. (Cl. 103—11)**



1. In a dredge suction pump and pipe unit having a normally closed vacuum relief valve in the pipe, means tending to open the valve, normally active power means to hold the valve closed and means to shut off the power means; electric control means to actuate said shut-off means upon the existence of abnormal vacuum conditions in the pipe, said control means comprising an electric device to operate the shut-off means, a circuit in which the device is interposed including a normally closed switch, electric means to control opening of said switch, means to actuate said electric means upon excess vacuum conditions obtaining in the pipe beyond the pump, and additional means to actuate said electric means upon low pressure conditions obtaining in the pipe ahead of the pump.

**2,644,401**
**APPARATUS FOR PUMPING DRILLING FLUIDS**
**Douglas Ragland, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware**
**Application March 15, 1951, Serial No. 215,782**
**9 Claims. (Cl. 103—45)**

1. Apparatus for pumping drilling fluid which comprises, in combination, a pair of interconnected vessels defining first and second chambers, a liquid piston arranged in and adapted to reciprocate between said chambers, an inlet and an outlet for each of said chambers provided with a valve adapted to resist flow of fluid in a direction opposite to normal flow through said inlets and outlets, a housing provided with a piston cylinder, interconnected first and second conduits connected to said housing and to said second chamber fluidly communicating said housing with said second chamber, interconnected third and fourth conduits connected to said housing and to said first chamber fluidly communicating said housing with said first chamber, a centrifugal pump, conduits defining an inlet to and an outlet from said pump fluidly connected to said housing and to said pump, an elongated member vertically arranged in the first of said chambers with respect to the horizontal axis of said apparatus extending substantially the length thereof defining first and second shoulders at points corresponding generally with

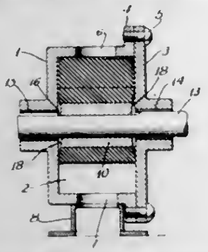


first and second ends of said first chamber, a float having a central opening slidably mounted on said elongated member adapted to raise and depress same on rise and fall of said float, a pilot valve adapted to be actuated by said float connected to said first chamber and to said elongated member and communicating fluidly with said first chamber and with said third conduit and with the piston cylinder defined by said housing, first and second valves in said housing adapted to connect sequentially said pump inlet to said second conduit and to said third conduit and said pump outlet to said fourth conduit and to said first conduit, a piston arranged in said cylinder, and a piston rod attached to said piston and to said first and second valves, the rise and fall of said float actuating said pilot valve to cause movement of said liquid piston into said piston cylinder and against said piston attached to said piston rod and from said first chamber to said second chamber and vice versa on actuation of said pump.

**2,644,402**
**SELF-SEALING ROTOR FOR FLUID TRANSFERRING DEVICES**
**Irvin H. Lehman, Kentland, Ind.**
**Application October 6, 1949, Serial No. 119,831**
**5 Claims. (Cl. 103—83)**

1. A rotor constructed of relatively resilient material having a central cylindrical portion and a plurality of radially extending vanes, the surfaces of the opposite ends of said cylindrical portion being conically tapered axially and radially

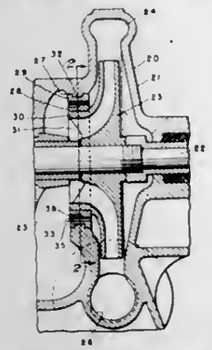
inwardly from substantially the peripheries of said end surfaces and the maximum axial length



of said cylindrical portion occurring at its periphery.

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**2,644,403**
**DEVICE FOR PREVENTING CLOGGING IN CENTRIFUGAL PUMPS**
**Lewis J. Dawson, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey**
**Application March 5, 1952, Serial No. 274,976**
**1 Claim. (Cl. 103—103)**

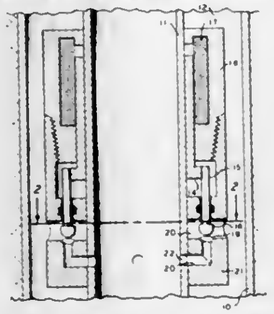


In a centrifugal pump, a casing having a suction chamber and a discharge chamber, an impeller in the casing for pumping liquid from the suction chamber to the discharge chamber, a ring on and encircling the inlet end of the impeller, a ring in the casing encircling the first-mentioned ring and having its internal surface spaced from the ring on the impeller to define a clearance therebetween for controlling the degree of leakage from the discharge chamber to the suction chamber, grooves in the inner surface of the casing ring extending axially of the casing ring, cutting edges at the junctures of the grooves and the inner surface of the casing ring, slots in the peripheral surface of the impeller ring arranged diagonally of the impeller ring, and cutting edges at the junctures of the slots and the peripheral surface of the impeller ring to cooperate with the first-mentioned cutting edges for comminuting solids in the clearance between the rings.

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**2,644,404**
**GAS LIFT VALVE**
**Roy Alexander Bobo, Houston, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application December 21, 1951, Serial No. 262,874**
**9 Claims. (Cl. 103—232)**

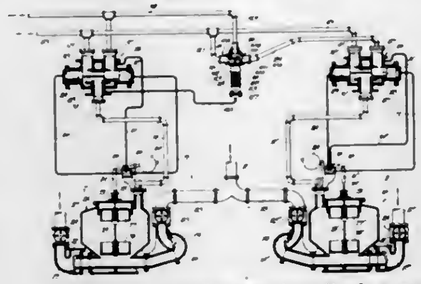
1. An apparatus comprising a casing; a section of tubing therein defining an annular space between said tubing and said casing; gas inlet means arranged about said tubing comprising a plunger surrounding a portion of and slidably arranged on said tubing; a valve stem suspended at one end from said plunger and terminating at the other end with a valve head, said valve head



being adapted and positioned to close off a conduit connecting the interior of said tubing and said annular space and a solenoid surrounding a substantial portion of said plunger and permitting movement of said plunger between said tubing and said solenoid along said tubing.

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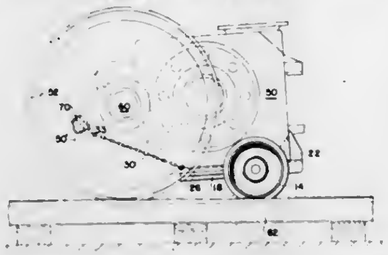
**2,644,405**
**CONTROL SYSTEM**
**Charles Yeomans, Hubbard Woods, Ill., assignor to Yeomans Brothers Company, Chicago, Ill., a corporation of Delaware**
**Application September 29, 1949, Serial No. 118,544**
**5 Claims. (Cl. 103—238)**



1. In apparatus of the class described, a source of pressure air, a first and a second receiver, means connected to said receivers for delivering the material to be pumped thereto, and an outlet conduit extending from each of said receivers, a separate air conduit connecting each of said receivers to the source of pressure air, an exhaust conduit connecting each of said receivers to the atmosphere, valve means in the air conduit and the exhaust conduit for each of said receivers, said valve means for each of said receivers being responsive to the level of material within the associated receiver to alternately supply air to that receiver to discharge the contents thereof and to connect that receiver to its exhaust conduit to vent air contained in that receiver to the atmosphere thereby permitting said receiver to fill, and an interlocking valve in the air conduit of said first receiver connected in communication with said second receiver and with the atmosphere and operative during the discharging period of said second receiver to shut off the supply of pressure air into said first receiver and to simultaneously connect said first receiver to said exhaust conduit for said first receiver.



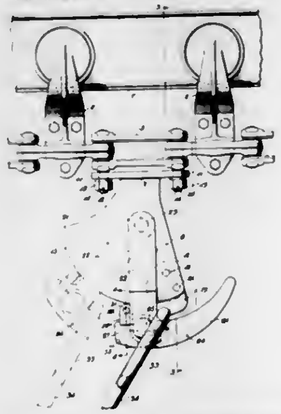
**2,644,406**
**TRACTION MOTOR DOLLY**
**Theodore Rogatchoff, Baltimore, Md.**
**Application February 14, 1951, Serial No. 210,880**
**3 Claims. (Cl. 104—32)**



1. A railway dolly for traction motor assemblies comprising a pair of low flanged wheels, an axle extending therebetween, a cradle carried on the said axle for supporting one end of the assembly, the rear portion of the cradle extending rearwardly from the axle for a distance greater than the radius of the wheels, the front portion of the cradle extending in front of the axle approximately twice the distance that it extends rearwardly of the axle, means extending upwardly from the rear end of the cradle for gauging the location of the assembly, a flexible tie connected with each side of and at the front end of the cradle and including a perforated plate, a horizontally adjustable bracket bar adapted to engage the opposite end of the assembly and means carried by the bar and said plate for adjustably securing the flexible tie thereto.

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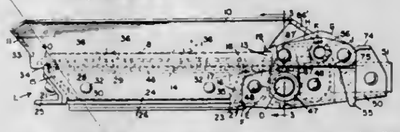
**2,644,407**
**QUICK-RELEASE OVERHEAD TROLLEY CONVEYER HOOK**
**Hubert J. McCormick, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois**
**Application August 10, 1950, Serial No. 178,669**
**10 Claims. (Cl. 104—170)**



1. A quick-release hook, comprising a shank having a camming surface, connecting means pivotally mounted on said shank, a dog pivotally mounted on said connecting means, and follower means mounted on said dog for movement along the camming surface to control the pivotal movement of the dog relative to the connecting means, pivotal movement of said connecting means relative to said shank effecting the said movement of the follower means along the camming surface.



**2,644,408**
**GATE CLOSING AND LOCKING MECHANISM FOR DISCHARGE OUTLETS OF CAR HOPPERS**
**George B. Dorey, Westmont, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois**
**Application April 9, 1949, Serial No. 86,574**
**10 Claims. (Cl. 105—282)**



1. In a discharge outlet assembly including a frame having a discharge opening and a gate slidably mounted therein for closing the opening, latching means for retaining said gate in closed position including a bodily movable latching element extending along the full width of said gate and adapted to assume a latching position in the path of movement of one side thereof and movable by rotation to assume a position above the path of movement of and out of contact engagement with said gate, and locking means cooperating with said latching element to hold the same against rotation in the latching position.

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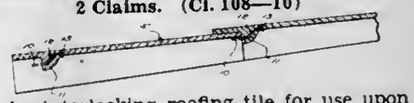
**2,644,409**
**APPARATUS FOR REMOVING FROZEN CONFECTIONS FROM SPURS**
**Harold George Huebsch, San Diego, Calif.**
**Application March 27, 1948, Serial No. 17,448**
**16 Claims. (Cl. 107—8)**



1. A spur for supporting frozen articles during manufacture by having one end embedded therein comprising a unitary tubular shell adapted to operate as an electrical resistance having a continuous article-contacting surface and contact means associated with the free ends thereof adapted to be connected across a source of electrical energy to cause separation of a frozen article supported thereon by the temperature rise in said article-contacting surface resulting from heat generated in said electrical resistance.

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**2,644,410**
**INTERLOCKING ROOFING TILE**
**Fred L. Weber, Miami, Fla.**
**Application November 27, 1951, Serial No. 258,414**
**2 Claims. (Cl. 108—10)**

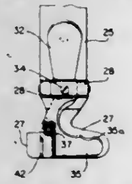


1. An interlocking roofing tile for use upon a roof having multiple courses of aligned rows of tiles in overlapping relation that consists of a barrel tile formed of cement and being semi-cylindrical in transverse cross-section, an integral lug formed on the underside of the tile inwardly from one end and equidistantly spaced from the sides of the tile, the lug having a flat forward end with its body portion tapering rearwardly and outwardly from the flat end, a metallic key embedded in the lug for its full length, with the key projecting forwardly from the flat end in spaced parallelism with the inner face of

the tile, and spacing of the key from the inner face being substantially equal to the thickness of the tile to be overlapped in a preceding course, the flat end of the lug providing an abutment to limit the degree of overlap with the key underlying the overlapped tile.

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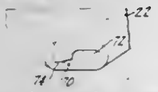
**2,644,411**
**WORK GUIDE FOR SEWING MACHINES**
**William D. Harrod, Greensboro, N. C., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois**
**Application April 24, 1951, Serial No. 222,627**
**8 Claims. (Cl. 112—20)**



3. An uncurler guide for hosiery seamers and the like which comprises a central support member, said member having a vertically disposed portion with flat work guiding surfaces on its opposite faces, a pair of presser elements pivotally mounted on said member and having surfaces adapted for engagement with said work guiding surfaces, means for yieldingly urging said surfaces on said presser elements against said work guiding surfaces, and a guide pin carried by said member and projecting laterally from said work guiding surfaces, each of said presser elements having an opening alined with said guide pin adapted to receive the same freely and having a passage extending rearwardly from said opening.

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**2,644,412**
**SHOE SEWING MACHINE**
**Fred Ashworth, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application January 7, 1950, Serial No. 137,343**
**9 Claims. (Cl. 112—37)**

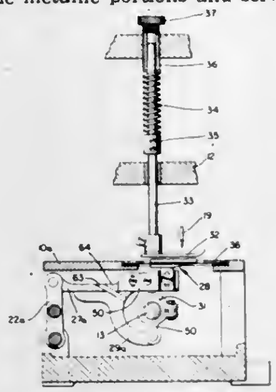


1. A shoe outsole sewing machine having a curved hook needle, work clamping and feeding means including a presser foot at the side of the work with the needle, in combination with a work support having a needle receiving opening formed with a restriction at that end toward which the work is fed to limit the movement of the thread drawn through the work by the needle laterally of the seam line, said restriction being of insufficient width to admit the needle.

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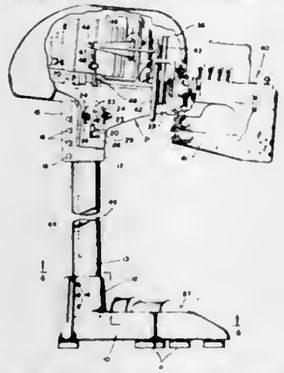
**2,644,413**
**VIBRATION ISOLATING MEANS FOR SEWING MACHINES**
**George Sauer, Berwyn, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois**
**Application September 14, 1950, Serial No. 184,823**
**13 Claims. (Cl. 112—214)**

1. A feed dog for sewing machines which comprises a metallic work engaging portion, a metallic supporting and attaching portion, and a connecting section formed of a yieldable, rubber-like material interposed between the two metallic portions, said connecting section being bonded to each of the metallic portions and serving to retain the same in permanently assembled relation out of contact with each other and being of sufficient dimension to enable slight flexing of said portions in relation to each other.



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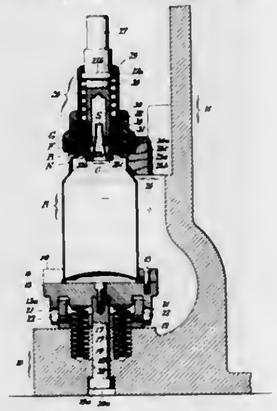
**2,644,414**
**SEWING MACHINE WITH DRIVE AND SUPPORT THEREFOR**
**George Sauer, Berwyn, and Albert M. Schweda, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois**
**Application May 14, 1949, Serial No. 93,346**
**9 Claims. (Cl. 112—258)**



1. A sewing unit comprising a supporting structure having a floor engaging portion and a vertically extending column carried thereby at one side of the center thereof, a collar mounted on said column adjacent its upper end, a substantially flat support carried by said collar in a substantially horizontal position, horizontal pivot means securing said support to said collar, said means enabling angular adjustment of said support about a horizontal axis on said collar, means serving to retain said support in set position on said collar, a sewing machine secured to said support for adjustment therewith, said sewing machine having a work supporting surface shiftable upon such adjustment to opposite sides of a horizontally disposed position, a power unit also secured to said support for adjustment therewith, and means connecting said power unit with said machine for driving the latter.



**2,644,415**
**RECEPTACLE CAPPING MACHINE**
**Clarence A. Spalding, Elkins Park, Pa., assignor to C. A. Spalding, Herbert Drosdat, Joseph Graff, and William Huebner, copartners trading as C. A. Spalding Co., Philadelphia, Pa.**
**Application June 22, 1949, Serial No. 100,618**
**3 Claims. (Cl. 113—18)**

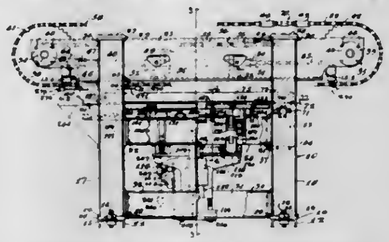


1. A swaging device for securing outwardly flanged cup section closure caps of sheet material set into openings in the tops of receptacles, said device comprising a shaft having a tapered end and a collar spaced from said end; a slide sleeve surrounding the end portion of the shaft and having internal circumferential shoulders respectively at the top and bottom ends thereof; a radially-divided multi-segment collet within the sleeve having a beveled top circumferential flange at its upper end engaging over the internal bottom shoulder of the sleeve and a diametrically reduced downward extension with a rounded circumferential flange at its lower end protruding from the sleeve, said collet being internally tapered for camming action with the taper of the shaft; a slide collar within the sleeve internally coned at the bottom for camming action with the beveled top of the collet; and a spiral spring surrounding the shaft within the sleeve with its upper end bearing against the collar of the shaft and with its lower end bearing against the top of the slide collar to normally maintain the collet collapsed, whereby, upon arrest of the sleeve by contact with the flange of the closure cap as the device is pressed axially upon the receptacle from above and upon somewhat further independent downward movement of the shaft thereafter, the segments of the collet are moved radially about the lower internal shoulder of the sleeve as a fulcrum by action of the taper of the shaft and their lower ends forced outward within the hollow of the closure cap to swage the latter about the edge of the opening in the top of the receptacle.

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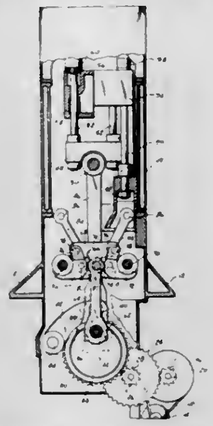
**2,644,416**
**APPARATUS FOR FORMING TUBES**
**John W. Miller and Arthur J. Barrie, Toledo, Ohio, assignors to Oldberg Manufacturing Company, Grand Haven, Mich., a corporation of Michigan**
**Application February 2, 1949, Serial No. 74,148**
**7 Claims. (Cl. 113—34)**

1. In a device of the character disclosed, in combination, a frame; a carriage arranged for movement relative to said frame; means for supporting a metal blank; means associated with said carriage and adapted for bending edge portions of the blank to predetermined configuration when the carriage is moved in one direction, means for moving said blank supporting means to form the blank to tubular configuration; and means including a plurality of rolls carried by the carriage and engageable with the configurated edge portions of said blank for performing seaming operations upon said blank during movement of the carriage in another direction to form a tube.



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**2,644,417**
**HIGH-SPEED DOUBLE-ACTION PRESS**
**Vasil Georgeff, La Grange Park, Ill., assignor to Danly Machine Specialties, Inc., Chicago, Ill., a corporation of Illinois**
**Application December 21, 1950, Serial No. 202,083**
**2 Claims. (Cl. 113—38)**

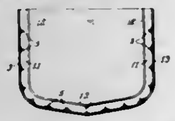


1. A high speed double action power press including in combination a frame, a slide mounted for reciprocation on the frame, a blank holder mounted for reciprocation on the frame, a prime mover, a crankshaft formed with a pair of crankpins, means for driving the crankshaft from the prime mover, a link having one end thereof pivotally carried by one of the crankpins, a second link having one end thereof pivotally secured to the press frame, a pin pivotally interconnecting the other ends of the first and second links, a connecting rod extending between the last named pin and the slide, a reciprocating head, a connecting rod extending between the second crankpin and the reciprocating head, a rocker shaft, a pair of crank arms carried by the rocker shaft for rotation therewith, a link extending between the reciprocating head and one of the crank arms and forming a first toggle linkage therewith, means carried by the blank holder for

movement therewith and a connecting link extending between said last named means and the other of the crank arms forming a second toggle linkage therewith, said toggle linkages being constructed and arranged to arrive at their small amplitude of motion positions at substantially the same time as said second crankpin approaches its bottom dead center whereby to cause the blank holder to dwell while the slide is performing its work.

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**2,644,418**
**WELDED SHIP CONSTRUCTION**
**Giuseppe Allegro, Genoa, Italy**
**Application December 23, 1947, Serial No. 793,505**
**In Italy August 3, 1945**
**2 Claims. (Cl. 114—79)**

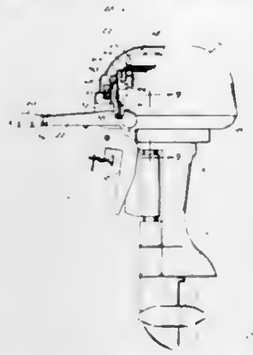


1. In a hull of a metallic sea-going ship, in combination, a plurality of transverse ribs, a plurality of elongated longitudinally extending strips of T-shaped cross-section interconnecting said transverse ribs, each of said strips having a longitudinally-extending flat base and an upright central web portion extending inwardly of the hull and being of a thickness substantially less than the width of said base, said web being interrupted at intervals to receive said ribs and said ribs being provided with recesses on their outer edges to receive the bases of said strips whereby said ribs and said strips present a flush external surface for reception of hull plates, said transverse ribs being welded to said longitudinal strips, and a plurality of longitudinal hull plates conforming to and positioned against said ribs and strips and having their longitudinal juncture lines coinciding with the centers of the bases of said strips, said hull plates being supported by all of said longitudinally-extending strips and said transverse ribs and conforming to the flush external surface defined by said strips and said ribs, said hull plates being welded to each other along their longitudinal juncture lines and to the edges of said bases but being free from welded connection to said transverse ribs, whereby said plates are free from stress.

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**2,644,419**
**CONTROL MECHANISM FOR OUTBOARD MOTORS**
**Richard C. Heidner, Hartford, and Herman D. Palmer, West Bend, Wis., assignors to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin**
**Application May 17, 1950, Serial No. 162,459**
**9 Claims. (Cl. 115—18)**

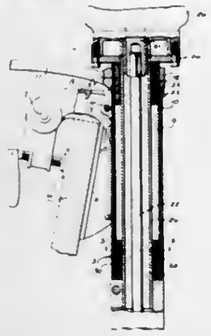
9. Control mechanism for an outboard motor having a lower leg adapted to be secured to a boat for pivotal movement with respect thereto about a substantially vertical axis, an engine carried by said lower leg, an engine control carried by said engine for rotation about a substantially vertical axis, a tiller support having rotational torsional vibration with respect to said engine about a substantially vertical axis, and a tiller pivotally carried by said support for rotation about a substantially horizontal axis, comprising a control handle rotatably mounted on said tiller, a lever mounted on said support and spaced vertically from said engine control, means interconnecting said lever and said handle whereby rotation of said handle operates said lever, a sheave carried by said engine in substantial horizontal alinement with said engine control and in substantial vertical alinement with an end of said lever, and a flexible member operatively interconnecting said end of said lever and said



engine control and passing over said sheave, there being a substantial length of said flexible member vertically disposed between said sheave and said end of said lever whereby said rotational torsional vibration may take place without undue interference of said control mechanism.

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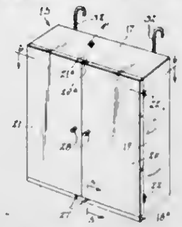
**2,644,420**
**OUTBOARD MOTOR MOUNTING FOR DAMPING TORSIONAL VIBRATION**
**Finn T. Irgens, Wauwatosa, Wis., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware**
**Application April 19, 1951, Serial No. 221,924**
**8 Claims. (Cl. 115—18)**



1. In an outboard motor mounting for damping only at relatively low speed the free oscillation of an oscillatably mounted power and propelling unit in response to torque vibration, the combination with a pair of spaced sleeves, one of which comprises a part of said unit, of braking means connected with one of said sleeves and normally engaged with the other, and means interposed between the opposite sides of said sleeves yieldably biasing said other sleeve and said braking means into mutual engagement, the said braking means and yieldable biasing means being disposed opposite each other in the plane in which propelling thrust is developed, and said biasing means being disposed in the direction toward which such thrust is developed.



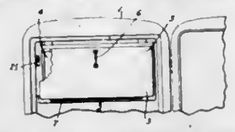
**2,644,421**
**MUSIC-BOX CABINET**
**Louis Arceo, New York, N. Y.**
**Application September 18, 1951, Serial No. 247,091**
**9 Claims. (Cl. 116—100)**



1. A cabinet of the class described, comprising a main body, a pair of adjacent pivotally mounted doors closing the open side of said main body, a music box mounted within the top portion of said main body having a spring pressed plunger urged in a direction to free said music box to play, a control plate slidably mounted in said music box and normally holding said plunger in a position in which said music box is inoperative, and a spring pressed plunger means controlled by opening of at least one of said doors to move downwardly and free said plunger to release said music box to play at least a portion of its predetermined tune.

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**2,644,422**
**FROST INDICATOR FOR REFRIGERATORS**
**Richard J. Carbary, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application December 21, 1950, Serial No. 201,972**
**20 Claims. (Cl. 116—114)**

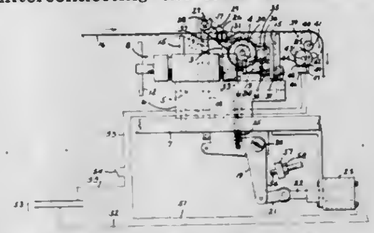


1. A refrigerator comprising a liner defining a food storage compartment, an evaporator upon which frost collects disposed in said compartment, a member slidably mounted adjacent said evaporator and including an element movable toward and away from said evaporator, the movement of said element toward said evaporator being intercepted by the frost collected on said evaporator whereby the amount of movement of said member is determined by the thickness of said frost, means for biasing said member for movement of said element toward said evaporator, an oscillatory indicating element having a directly visible portion, and means connecting said indicating element and said member for effecting oscillatory movement of said indicating element in accordance with said movement of said member whereby said visible portion of said indicating element indicates at least the general range of thickness of frost on said evaporator.

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**2,644,423**
**MARKING DEVICE FOR STRAND MATERIAL**
**Ernest K. Bauer, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application December 15, 1949, Serial No. 133,200**
**8 Claims. (Cl. 118—234)**

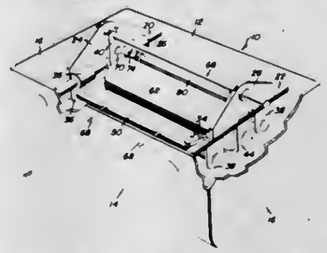
1. Apparatus for intermittently marking a running strand comprising means for drawing a strand along a path, a roller for applying a marking material having its periphery adjacent one side of the path and normally out of contact with the strand in said path, a shaft for supporting the roller for rotation, said shaft and roller being mounted in a container, a pivotally mounted bell crank lever, electromagnetic means for rocking the lever, an arm pivotally mounted on the axis of the shaft and extending to a position beyond the other side of the path, a member interconnecting the lever and the arm for



swinging the arm when the lever is rocked, means mounted on the arm comprising an element on said other side of the path for moving the running strand against the periphery of the roller when the arm is swung on its pivotal axis, means interconnecting the arm and roller for rotating the roller when the arm is swung to move the strand against the roller periphery, and means driven in synchronism with the running strand for intermittently energizing the electromagnetic means to control the frequency of contact between the strand and the roller.

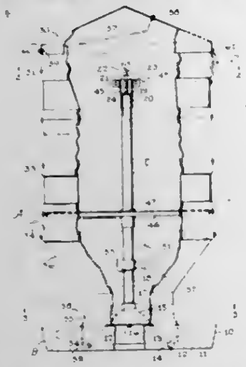
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**2,644,424**
**WALLPAPER PASTING MACHINE**
**Harry A. Bixby, Brattleboro, Vt.**
**Application April 28, 1950, Serial No. 158,760**
**4 Claims. (Cl. 118—246)**



1. A wallpaper pasting machine comprising an elongated paste receptacle having side and end walls and an open top, a pivot pin positioned transversely of said receptacle and secured between said side walls adjacent one end thereof, an elongated frame hinged at one end on said pin within said receptacle, a support in said receptacle at the other end thereof, said frame resting on said support, a support bracket mounted within said frame and including upstanding arms having bifurcated upper ends, a paste applying roll journaled in said upstanding arms and extending longitudinally of said receptacle between the ends of said frame, paper guide bars depending from said frame on opposite sides of said paste roll, a wiper roll journaled on said upstanding arms and freely rotatable in predetermined spaced relation to said paste applying roll, said frame including first and second end plates and a central support rod joining said end plates, said central support rod seating between the furcations of said arms.

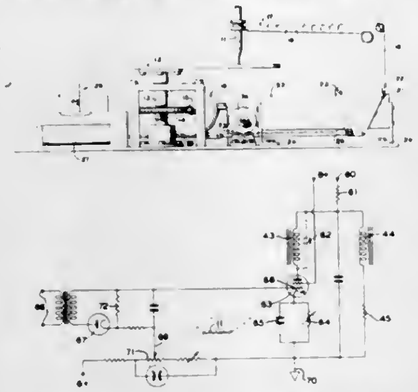
**2,644,425**
## SWINE FEEDER
**Gretzolon L. Hazen, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis.**
**Application July 14, 1951, Serial No. 236,789**
**3 Claims. (Cl. 119—53.5)**



1. In a swine feeder comprising in combination, an angular feed trough having secured to its inner flange an upwardly extending cone having secured to its apex an upwardly extending tube, a feed container, its open bottom extending to near the bottom of said trough and adjacent said cone, a sleeve its lower end rotatably mounted on the top of said tube and having secured thereto anchors which are secured to the inner wall of the container, said tube having a cap on its upper end, said sleeve having a closure nut secured to its upper end, a screwthreaded bolt in said nut, its lower end resting on said cap, for adjusting the height of the container, a number of outwardly extending projections secured to said container and positioned below the outer top of said trough, whereby the container will be turned in either direction by the snout of the animals while feeding, a stop secured to said tube, a distance below said first sleeve, a sleeve rotatably mounted on the tube and resting on said stop, prongs secured to said last sleeve, their free ends terminating adjacent the wall of said container, whereby the prongs when moved far enough in either direction by the feed will violently contact said stop as and for the purpose described.

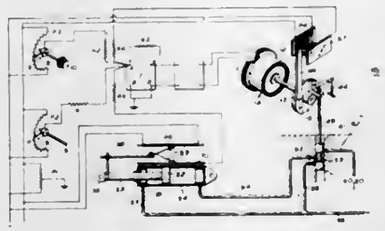
**2,644,426**
## ELECTRICALLY CONTROLLED FOLLOW-UP SYSTEM
**Wayne B. Moore, San Diego, Calif.**
**Application February 26, 1948, Serial No. 11,232**
**5 Claims. (Cl. 121—41)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. Follow-up mechanism for positioning a mechanical member in accordance with an audio frequency modulated radio frequency signal, comprising a track, a bracket having wheels riding on said track, a reciprocable rack secured to said bracket, a pinion meshing with said rack, a piston attached to said rack to reciprocate the same on said track, a cylinder encompassing said piston, conduits for admitting driving fluid to said cylinder to control the position of said piston, valve means in said conduits for controlling the admission of fluid to said cylinder, and electric means connected to control the operation of said valve means in accordance with the signal to be followed, said electric means including amplifying means effective to amplify said signal, means to demodulate said amplified signal, a potentiometer having two winding terminals and one slider terminal, means to connect said demodulated amplified signal to a first winding terminal of said potentiometer, means to connect a counter voltage to a second winding terminal of said potentiometer, at least one balancing circuit having an input terminal and a pair of output terminals effective to deliver two output voltages having varying amplitudes relative to each other depending on the extent and direction of the deviation of



the voltage applied to said input terminal from a predetermined balance voltage which is effective to produce equal voltages at said pair of output terminals, means for connecting the slider terminal of said potentiometer to said balancing circuit input terminals, means to amplify the outputs of said balancing circuits, solenoids for actuating said valve means in response to the amplified outputs of said balancing circuits, said potentiometer having its slider adapted to be positioned by said pinion whereby follow-up control over said mechanical member is exerted to compensate for changes in the strength of said signal.

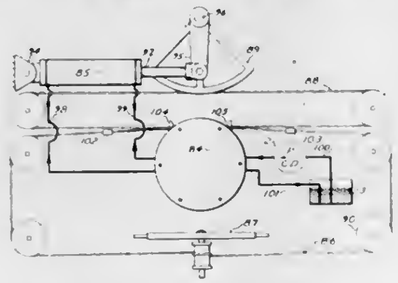
**2,644,427**
## SERVO SYSTEM
**Hugh Brougham Sedgfield, London, Frederick Arthur Summerlin, Lee, London, and George Hambly Kyte, Ealing, London, England, assignors to The Sperry Corporation, a corporation of Delaware**
**Application July 15, 1949, Serial No. 104,862**
**In Great Britain July 16, 1948**
**8 Claims. (Cl. 121—41)**



1. A servo system comprising a servo-motor, control means for controlling the magnitude and direction of operation of said servo-motor, means providing a variable control signal, a clutch having an input member and an output member, said input member being continuously driven in one direction at a substantially constant speed and said output member being maintained in continuous frictional engagement with said input member whereby said output member tends to be torqued in the direction of movement of the input member, means connected with said output member for producing a torque thereon equal and opposite to the torque imparted thereto by said input member, and means responsive to the signal of said variable control signal means for quantitatively modifying the frictional engagement between said clutch members whereby said servomotor control means is actuated in one direction by increasing the frictional engagement between the clutch members and in the other direction by decreasing the frictional engagement therebetween.



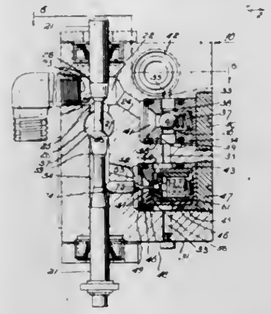
**2,644,428**
## POWER-OPERATED SERVO MECHANISM FOR USE IN STEERING GEARS AND THE LIKE
**Robert Sedgwick Ford, Pascagoula, Miss.**
**Application September 17, 1951, Serial No. 246,890**
**3 Claims. (Cl. 121—41)**



1. In a servomechanism control apparatus, the combination of a rotatable disk, an annular concentric rib secured to the disk and provided with a notch through the rib, a cam follower adapted to travel along the inside and the outside surface of the rib and to move from one side to the other by passing through the notch, power controlling means operatively connected to the cam follower whereby the motion of the cam follower in passing through the notch operates the power controlling means, a pair of oblique cam blocks secured to the disk in the rib notch with the cam blocks projecting alternately from either side of the rib with a gap between whereby the cam follower is guided through the gap and prevented from entering the gap from the wrong side, means whereby the said disk may be rotated with respect to the cam follower, and means whereby the cam follower may be carried in a circular path following the said rib.

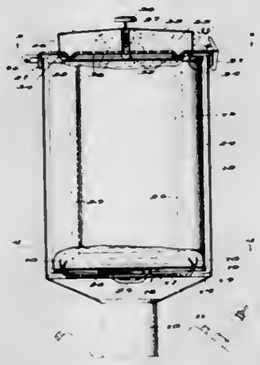
**2,644,429**
## HYDRAULIC CONTROL DEVICE
**William Waterman, Chicago, Ill., and Donald A. Stark, Willoughby, Ohio; said Stark assignor to said Waterman**
**Application January 26, 1948, Serial No. 4,256**
**4 Claims. (Cl. 121—46.5)**

1. A control unit for a ram and ram cylinder wherein the load on the ram tends to return the latter to initial position comprising in combination a valve housing having therein a valve chamber and passages leading to said valve chamber and adapted to be connected respectively to the ram cylinder, to a source of fluid pressure, and to discharge; a throttling control valve in said chamber adapted selectively to connect the pressure source with the ram cylinder passage and with the discharge passage, said control valve having means for adjustably throttling flow from said ram cylinder to discharge, a check valve in said ram cylinder passage to prevent return flow from said ram cylinder through the latter passage, a by-pass



around said check valve and leading to said valve chamber, a by-pass check valve in said by-pass having means actuated by said control valve to open said by-pass check valve, the latter valve being normally closed to flow from said ram cylinder through said by-pass, and means for operating said control valve to open said by-pass valve to connect said ram cylinder to discharge.

**2,644,430**
## OIL FILLING AND BREATHER PIPE MEANS FOR INTERNAL-COMBUSTION ENGINES
**Walter B. Lang, Washington, D. C.**
**Application April 27, 1951, Serial No. 223,349**
**12 Claims. (Cl. 121—194)**



1. A device of the class described comprising a breather and oil filler pipe for an internal combustion engine, said breather and oil filler pipe comprising a chamber sized to receive and completely house a sealed can of oil with clearance about its sides, can opening means within said chamber for engaging, piercing, and opening the sealed can as it is forced downwardly against the same, a cover for closing said chamber, and can depressing means for positioning the can in spaced relation thereto, air filtering means carried by said cover, said chamber being vented

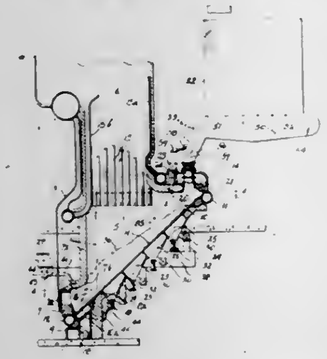
through said air filtering means, and means for securing said vented cover in chamber closing position.

2,644,431

## HEARTH TYPE FURNACE

Henry W. Beecher, Seattle, Wash.; Blanche Cameron Beecher and Henry Ward Beecher, Jr., executors of said Henry W. Beecher, deceased

Application August 29, 1949, Serial No. 112,907
4 Claims. (Cl. 122—2)



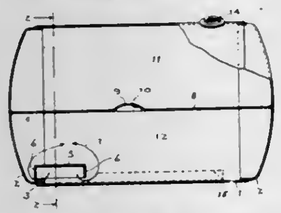
1. In a furnace and boiler combination, a water-cooled hearth comprising a sloping bank of bare water-tubes forming a surface for the support and burning of a fuel bed thereon; said tubes being parallel and extended in the direction of slope of the hearth and closely spaced to provide restricted air passages between them, means connecting the tubes of the hearth with the circulatory system for flow of boiler water therethrough, the lower end portions of alternate water-tubes being offset to provide spaces therebetween, an ash pit below and under the lower end of said hearth, means for injecting a controlled amount of air into said ash pit below the lowest level of said hearth for movement of air upwardly through the ash discharging through the spaces in the end of said hearth, means at the under side of the hearth dividing the hearth area into a succession of individual zones of control and means for supplying air under pressure and in regulated amounts to the individual zones for injection into the furnace through the restricted passages.

2,644,432

## HOT WATER TANK

Frederick S. Hummel, Toronto, Ontario, Canada, assignor to Triumph Dishwashers Limited, Toronto, Ontario, Canada

Application June 1, 1949, Serial No. 96,535
3 Claims. (Cl. 122—13)



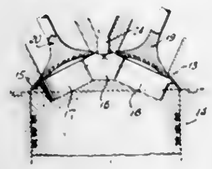
3. A hot water tank sub-divided into an upper and a lower section in communication at one area only to permit a predetermined minimum of water circulation between said sections limiting any orbital flow to only minor proportions of the dimensions of said tank; an inlet in said lower section adjacent the bottom thereof remote from said communicating area and arranged to direct water into said tank in a substantially horizontal stream; an outlet from said upper section out of vertical alignment with said area of communication between said sections; a baffle arranged in said lower tank section extending substantially horizontally above the path of the inlet water stream and extending downwardly each side thereof to deflect flow of incoming water flowing through said inlet from said area; a heater in direct thermal contact with said lower tank section and substantially completely thermally disassociated from said upper tank section whereby said upper tank section is freed from any appreciable temperature gradient; and a thermostat located to respond to water temperature in said lower tank section in position to respond to substantially the maximum temperature fluctuation in said lower tank section to hold the temperature of upper water strata in the upper tank section at a temperature constancy having less fluctuation than the response of said thermostat.

2,644,433

## COMBUSTION CHAMBER FOR INTERNAL-COMBUSTION ENGINES

Karl V. Anderson, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application October 2, 1951, Serial No. 249,293
7 Claims. (Cl. 123—32)



1. A power assembly for an internal combustion engine of the compression-ignition type comprising a cylinder, a valved cylinder head, a fuel injector extending through the center of the head, and a piston reciprocable in the cylinder, said piston having a combustion recess in its top surface comprising two diametrically opposed substantially circular cavities, and a contoured channel connecting the cavities, said cylinder, cylinder head, and recessed piston forming the combustion chamber of the engine.

2,644,434

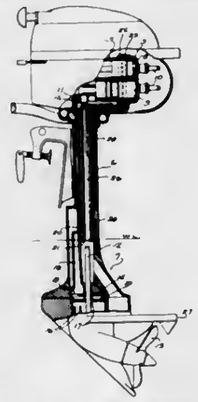
## DUAL JACKETED ENGINE PROVIDED WITH DUPLEX COOLING SYSTEMS

Lucius D. Watkins, Milwaukee, Wis., assignor to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware

Application January 5, 1949, Serial No. 69,313
14 Claims. (Cl. 121—41.47)

1. The combination with an engine operable at varying speeds and pump means driven therefrom at varying rates according to said engine speed, said engine being provided with a cylinder, of two separate jackets for said cylinder, primary and secondary cooling systems leading from said pump means to the respective jackets, said systems including coolant discharge pipes at differing levels, the said jackets being spaced axially of the cylinder and the jacket closest to the combustion end of said cylinder being connected in





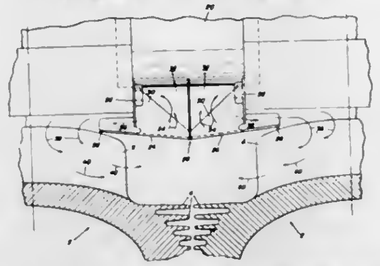
the system having its discharge at the higher level.

2,644,435

## AIR COOLING FOR INTERNAL-COMBUSTION ENGINES

Ralph A. Hoxie, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia

Application June 24, 1947, Serial No. 756,578
5 Claims. (Cl. 123—41.65)



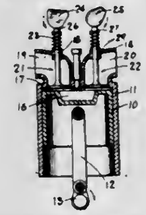
3. In an air-cooled internal combustion engine comprising a plurality of aligned cylinders forming a bank of cylinders, a crankshaft common to all such cylinders, cooling fins on the cylinders disposed normal to the cylinder axes and pompadour fins on each cylinder head lying in planes extending generally parallel to the crankshaft and cylinder axes, a blower supported in juxtaposition to said cylinders and constructed to induce air flow generally normal to the engine plane containing said cylinder and crankshaft axes, and baffle assemblies mounted on the cylinder and comprising a floor portion having projections which partially overlies said pompadour fins and which bridge the gap between the pompadour fins of adjacent cylinders, said baffle assemblies further each provided with a rear wall blocking direct flow of some of the air through the gap between said cylinders and deflect same laterally into direct heat conducting relation with said pompadour fins, said laterally deflected air being turned back by the cylinder and caused to flow generally parallel with said pompadour fins and thence discharge through the gap between said cylinders below the floor portion of said baffle assembly, said baffle assembly comprising complementary sections secured respectively to adjacent cylinders and symmetrically disposed in abutted position along a plane extending normal to the crankshaft and midway between the two adjacent cylinder axes.

2,644,436

## VALVE ACTUATING MECHANISM

Martin J. Berlyn, Suffield, Conn., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application October 21, 1950, Serial No. 191,443
6 Claims. (Cl. 123—75)



1. In a supercharged compression-ignition engine of the four-stroke cycle class, in combination, a cylinder; a cylinder head having a flat base; a piston reciprocable in the cylinder; an annular uninterrupted rim on the piston crown adapted to coact with the flat base of the cylinder head to impart radially inward movement of combustion-supporting air on the compression stroke of the piston; an intake passage; an exhaust passage; a spring-return poppet intake valve; an exhaust valve; and means, including a cam, transmitting motion from the crank shaft to the intake valve to open the latter during the first half of the exhaust stroke of the piston to allow scavenging, said means thereafter during such stroke permitting the intake valve to move toward seating position in response to the urging of its spring in time to avoid collision with such piston.

2,644,437

## SELF-ADJUSTING TAPPET

Charles E. Johnson, North Muskegon, Mich., assignor to Johnson Products, Inc., Muskegon, Mich., a corporation of Michigan

Application January 3, 1950, Serial No. 136,484
2 Claims. (Cl. 123—90)

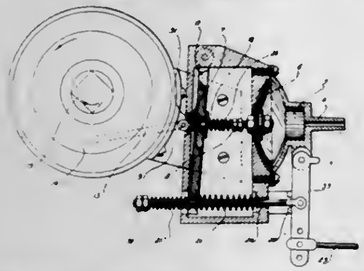


1. A tappet comprising, a body having an interiorly threaded opening longitudinally thereof from one end of the body toward but short of the other, a screw threaded into said opening, the interior threads of the body and the exterior threads of the screw being loosely fitted whereby the screw, relative to the body, is

adapted to have a free longitudinal movement equal to the predetermined adjusting clearance between the tappet and the engine valve stem of an engine in which the tappet is adapted to be installed, and a coiled spring anchored at one end on the body and at the other end on the screw, said spring being adapted to be compressed and put under torsional strain when thus anchored, the torsional spring force being less than the compression force produced on threading said screw into the body after anchoring of the spring has taken place.

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**2,644,438**
**SEMIAUTOMATIC IGNITION CONTROL DEVICE**
**Oswald Gaglio, Nice, France**
**Application September 29, 1950, Serial No. 187,543**
**In France September 30, 1949**
**8 Claims. (Cl. 123—117)**

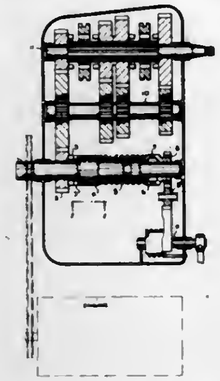


1. In a semi-automatic control system for the ignition timing mechanism in internal combustion engines provided with a carburettor including a throttle valve controlled by an accelerator pedal, the combination of a shiftable member submitted to the suction prevailing in the vicinity of the throttle valve, a link operatively connected with said member and controlling the timing mechanism, a correcting lever pivotally secured through one end to a stationary point and operatively engaging, at a point of its length, the link connected with the first member, a compensating lever, a floating connection between said compensating lever and the free end of the correcting lever and means controlled by the accelerator pedal and adapted to act on the correcting lever, and therethrough on said link, in the direction corresponding to advanced ignition when the throttle valve opens between a predetermined position and maximum opening.

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**2,644,439**
**CHANGE SPEED AND STARTING GEARING FOR MOTORCYCLES**
**Hermann Behringer, Munich, Germany, assignor to Bayerische Motoren Werke AG., Munich, Germany, a corporation of Germany**
**Application December 1, 1949, Serial No. 130,431**
**In Germany December 27, 1948**
**3 Claims. (Cl. 123—185)**

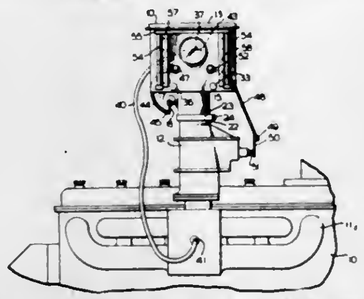
1. In a change speed gear for motorcycles having its crankshaft arranged longitudinally in the direction of drive, drive means for the rear wheel of the motorcycle for transmitting power, intermediate shaft gear meshing means in connection with the drive means, and driven shaft gear means, the combination of a drive shaft for effecting power transmission, said drive shaft having a keyway thereon, a pinion rotatably mounted on said drive shaft for constant meshing with said gear meshing means, a pair of uniformly designed opposite cams on said pinion, a cam piece engaging said cams, said cam piece being mounted on the drive shaft in said keyway, thereon permitting axial displacement of said cam piece on said drive shaft and providing a connection between said cam piece and said drive shaft for positive rotation, a compression spring engaging said cam piece to force it against the cams provided on the driving pinion, the possibility of axial displacement of said cam piece on the drive shaft being



determined by the length of the compression spring in its compressed state, gear coupling means engaging said spring at its other end, connecting means for said coupling means, intermediate gear means in connection with said coupling means, and kick-starter means in powered parallel relation with the drive shaft and in connection with the intermediate gear means for transmitting torque impulses from said kick-starting means to said shaft.

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**2,644,440**
**CLEANING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES**
**Malcolm Bailey, Sr., Tampa, Fla., assignor of one-half to Vergil G. Stead, Tampa, Fla.**
**Application April 10, 1952, Serial No. 281,688**
**3 Claims. (Cl. 123—198)**



1. In combination with the intake manifold and carburetor of an internal combustion engine, a precision testing attachment for detecting engine trouble, said attachment including a container having separate compartments, one of said compartments arranged to receive a penetrating liquid and another a flushing liquid, said container having a depending throat, means for detachably connecting said throat to the carburetor when the air cleaner is removed therefrom, a vacuum guage mounted in said container and having means communicating with the intake manifold for accurately measuring the vacuum developed in the manifold, valve means for selectively communicating the compartments with said throat, a choke valve mounted in the throat, manual control means mounted on the container and operatively connected to the choke valve for actuating the same, and manual control means mounted on the container and operatively connected to the throttle valve of the carburetor for controlling the speed of the engine.



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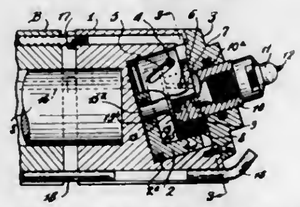
**2,644,441**
**BALL THROWING SLING**
**Andrew S. Simko, Passaic, N. J.**
**Application December 4, 1951, Serial No. 259,776**
**2 Claims. (Cl. 124—5)**



1. In a sling, the combination which comprises a sheet of leather folded midway of the length thereof providing two sections, with the sections connected at the center of the sling and having extended ends, each of said sections having a circular opening therein and said openings being positioned to register with the center of a ball positioned between the sections, rivets extended through the sections at the center of the sling and positioned at the corners thereof forming a projectile holding pocket, eyelets extended through the extended ends of said sections, straps extended through the eyelets and secured thereby to the sections, a finger receiving loop on the extended end of one of said straps, and a tab on the extended end of the other strap.

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**2,644,442**
**DIAMOND TOOL ASSEMBLY**
**Joseph Loecy, Jr., Euclid, Ohio**
**Application July 14, 1950, Serial No. 173,751**
**5 Claims. (Cl. 125—11)**



1. In a device of the class described, the combination of a cylinder, a plunger within said cylinder and reciprocatable therewithin, means including hydraulic means connected to said cylinder for effecting such reciprocatable movement of said plunger pin and inclined slot means operatively arranged between said cylinder and plunger for converting the forward and rearward movement of said plunger into rotary movement thereof, an annular ring within said plunger and having pin and inclined slot means of connection with said plunger for amplifying the rotary movement of said annular ring by said plunger, a tool holder within said annular ring, and one-way means of clutch connection between said annular ring and said tool holder for transmitting to said tool holder said amplified rotary movement of said ring in only one direction thereof.

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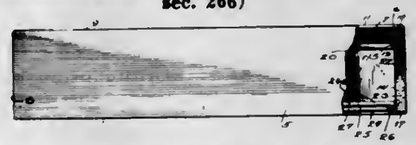
**2,644,443**
**OVEN LINER**
**Alfons Barnsteiner, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 18, 1949, Serial No. 122,105**
**5 Claims. (Cl. 126—19)**



4. A sheet metal oven liner comprising top, bottom, side and rear walls providing a substantially cubical casing having an opening at the front, a front peripheral flange disposed outwardly at an angle to said top, bottom and side walls, each adjacent pair of said last-mentioned walls having a curved portion at their junction, each said curved portion being adjacent said flange and having a surface of increasing radius in a direction toward said rear wall and being inclined outwardly in the opposite direction, whereby said curved portion serves as a corner brace to resist warpage or distortion of the liner.

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**2,644,444**
**BAKING FRAME**
**Joseph Cryns, Chicago, Ill.**
**Application March 2, 1950, Serial No. 147,313**
**1 Claim. (Cl. 126—369)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

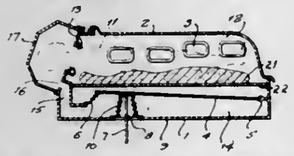


A baking frame consisting of a body completely open at the top and having a flat bottom and spaced vertical side walls extending around the entire perimeter of the body; said body also including a bottom web which joins the spaced vertical side walls and which lies substantially in

a horizontal plane slightly below the level of said flat bottom so that the bottom web will support the body with its flat bottom slightly spaced above the support for the body; said spaced side walls and bottom web together providing a narrow continuous water-tight water compartment completely surrounding said flat bottom; said spaced side walls being separated at their tops, the inner side walls being of less height than the outer side walls, the outer side walls being inwardly bent at their upper edges to direct steam inwardly; the bottom wall being adapted to support food products for baking and the entire area above said bottom wall being open; the body being so constructed and arranged that when water is put in said water compartment and the body is placed in a heated oven, the water will vaporize and the steam will form a continuous layer or blanket over the product being baked, thereby obviating excessive loss of moisture of the product and precluding burning the same.

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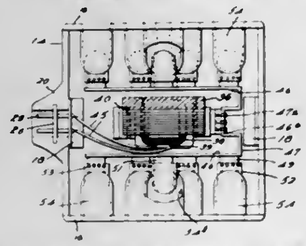
**2,644,445**
**AIR PUMP FOR ARTIFICIAL RESPIRATION**
**Hermann Tietze, Lubeck, Germany, assignor to Otto Heinrich Drager, Lubeck, Germany**
**Application January 12, 1951, Serial No. 205,638**
**In Germany February 13, 1950**
**6 Claims. (Cl. 128—30)**



1. An apparatus for artificial respiration, comprising in combination, air pump means having a reciprocating movable member causing compression and expansion of air on opposed sides thereof; drive means driving said air pump means; a chamber adapted to airtightly enclose the body of a patient substantially one wall of which is formed by one side of said movable member; a dome removably secured to said chamber and adapted to enclose the head of said patient; and air-duct means adapted to connect the other side of said reciprocating movable member to said dome, whereby opposed pressure alternations are produced in said chamber and said dome, respectively.

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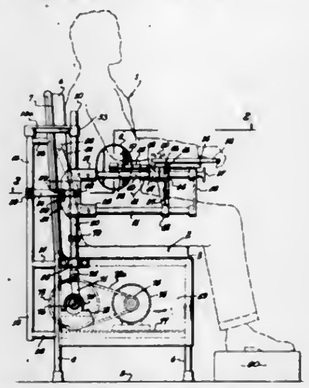
**2,644,446**
**FINGER TIP MASSAGING INSTRUMENT**
**Ernesto Fano Viniegra, Mexico City, Mexico**
**Application January 4, 1951, Serial No. 204,300**
**7 Claims. (Cl. 128—41)**



1. An instrument for massaging the finger tips comprising a casing having a side wall, said side wall having openings therein for the reception of the tips of the fingers and thumb of a hand, an electric vibrator motor within the casing, means for conducting electric current to the motor from outside the casing, and movably supported massaging elements connected with and vibrated by the motor and positioned relative to the side wall openings for contact with the fingers and thumb in the openings.

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**2,644,447**
**POSTURE CORRECTING MACHINE**
**Helen E. Sanders, Los Angeles, Calif.**
**Application January 28, 1949, Serial No. 73,267**
**6 Claims. (Cl. 128—52)**



1. In a device of the character described: a seat for an upright subject; means forming a guide transverse to the seat; a frame above the seat and guided by said means; means for cyclically reciprocating said frame; and a pair of pads facing each other and mounted on the frame for contacting the sides of the subject below the ribs.

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**2,644,448**
**FOOT SLING**
**George W. Jardine, Waltham, Mass.**
**Application March 2, 1951, Serial No. 213,570**
**5 Claims. (Cl. 128—84)**



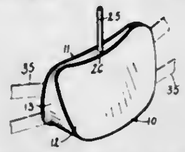
1. An improved foot sling comprising a base member for receiving the sole of a foot thereagainst, a protective covering including a heel pocket secured to the base and adapted to receive the heel of said foot in a suspended position, a suspension element fastened at the forward end of the base for attaching the base to a raised supporting member, intermediate portions of the protective heel pocket covering being attached to



the base in a manner so as to extend at an angle less than 90° with respect to the plane of the base, and cooperating strap members for maintaining the heel pocket and base in a substantially fixed position when the said foot is received therein.

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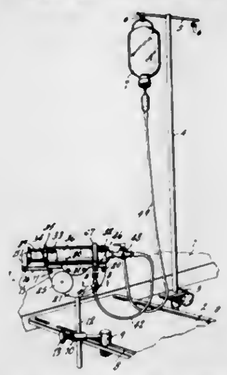
**2,644,449**
**INFLATABLE PAD**
**Emory C. Champagne, Woodbridge, Conn., assignor to The Berger Brothers Company, New Haven, Conn., a corporation of Connecticut**
**Application June 3, 1952, Serial No. 291,539**
**9 Claims. (Cl. 128—118)**



1. An inflatable pad for applying pressure to a portion of the body, said pad including a pouch having an inflatable bladder therein, said pouch having front and back wall members of relatively rigid material.

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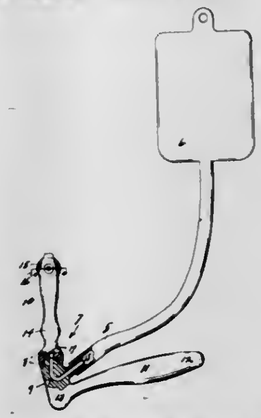
**2,644,450**
**HOLDER AND OPERATOR FOR HYPODERMIC SYRINGES**
**Josephine E. Krewson, Muskegon, Mich.**
**Application February 6, 1952, Serial No. 270,181**
**7 Claims. (Cl. 128—218)**



1. A hypodermic syringe holder comprising, an elongated body member having a longitudinally extending bore formed therethrough with a slot in the under side opening to said bore, an operating rod slidable in said bore and having teeth on its under side, a support rod pivotally secured to the under side of said body intermediate of the ends thereof, side plates secured to the sides of said body and extending therebelow, one of said plates having an arcuate slot formed therein, a clamp screw extending through said arcuate slot and engaged with said support rod, a cover plate of U-shaped cross-section fitting over the top and sides of said body, upwardly opening U-shaped spring clips on the ends of said cover plate, vertically and laterally inwardly opening U-shaped flanges on one of said clips adapted to receive the flange on the rear of a syringe barrel, an upright on the end of said rod adjacent said U-shape flanges, other U-shaped flanges on said upright adapted to receive the flange on the plunger of a hypodermic syringe, entrained gears supported between said side plates with one gear engaged with the teeth on said operating rod, a hand wheel mounted outside one of said side plates and connected to one of said gears, and a clamp secured to one of said side plates, and having a laterally opening slot formed therein with a clamp screw extendable into said slot.

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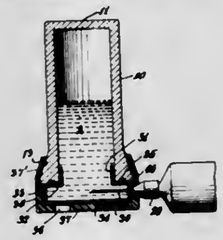
**2,644,451**
**COLONIC-VAGINAL IRRIGATOR**
**Edward Sokolik, New Brighton, Minn.**
**Application March 14, 1952, Serial No. 276,480**
**8 Claims. (Cl. 128—239)**



1. In a colonic-vaginal irrigator for use in combination with a flexible tubular conduit connected to a liquid supply, a body-portion of suitable material embodying an intermediate connecting-portion, a nozzle-portion and a handle-portion, said body-portion having a conduit extending longitudinally through the nozzle-portion and through a portion of the connecting portion emerging in the side of said connecting-portion in the form of a means adapted for connection to the flexible tubular conduit, said connecting-portion and said handle-portion having a juncture in the form of a depending nubbin adapted to prevent flush ascending the handle-portion and to drain said flush down along the surface of said nubbin.

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**2,644,452**
**MEDICAMENT VIAL**
**Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.**
**Application March 16, 1951, Serial No. 216,059**
**5 Claims. (Cl. 128—272)**

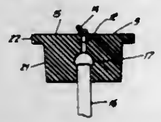


4. A medicament vial comprising the combination of a tubular body open at one end, a member rigidly connected to said body and sealing the open end thereof, said member having

an axially extending penetrable portion, a cap rotatably mounted on said body and encompassing the exposed surfaces of said penetrable portion, said cap comprising an end portion and an axially extending flange, said flange having an opening exposing different areas of the penetrable portion as said cap is rotated with respect to the latter and through which opening a hypodermic needle may be projected to puncture said penetrable portion and communicate with the medicament within said vial.

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**2,644,453**
**BOTTLE STOPPER**
**Robert C. Beacham, Richmond, Calif., assignor to Cutter Laboratories, Inc., a corporation of California**
**Application August 11, 1951, Serial No. 241,489**
**2 Claims. (Cl. 128—272)**



2. A stopper for a parenteral injection container having a resilient plug portion adapted to fit within the neck of said container by compressive friction grip, said stopper having a tube mounted in an air passageway therein said tube extending from that side of the stopper adapted to fit within the container, and walls defining a cavity in the air passageway in said stopper into which the tube projects with its terminal end in the stopper out of contact with the stopper, the portion of said passageway extending from the container to the atmosphere side of the stopper being of substantially smaller diameter than the tube.

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**2,644,454**
**SANITARY TOWEL OR LADY'S BAND**
**Josef Karl Morhard, Heroldsberg, near Nurnberg, Germany, assignor to Vereinigte Papierwerke Schickedanz & Co., Nurnberg, Germany**
**Application December 18, 1950, Serial No. 201,300**
**In Germany December 19, 1949**
**1 Claim. (Cl. 128—290)**



A sanitary towel especially for use during travel and for sports, comprising, in combination, a basic body of substantial thickness consisting of an absorbent material adapted to be easily loosened after having been compressed and selected from the group consisting of cellulose wadding and cotton wool, the fibres of which run confusedly in all directions so that no actual liquid conducting capacity in an external direction exists relative to the thickness of the towel, but an increased liquid conducting capacity exists in a direction parallel to the thickness of the towel, a covering layer of substantial thinness as compared with the basic body and consisting of a plurality of thin layers of cellulose fleece having primarily the capacity of conducting catamenial fluids in the lateral direction while their capacity for conducting the fluid in the direction parallel to the thickness of the towel is diminished due to the air gaps between the fleece layers, said covering layer applied to the face of the basic body nearest to the body of the wearer, a second layer arranged at the opposite face of said basic body which is remote from the body of the wearer and of a thickness substantially less than the thickness of the basic body, said second layer consisting of cellulose which is non-absorbent and is adapted to cause a lateral distribution of any liquid reaching it before it is steeped with the liquid, and a wrapping consisting of a knitted fabric and extending around both sides and both faces of the towel, said wrapping having end portions extending beyond the ends of the basic body.

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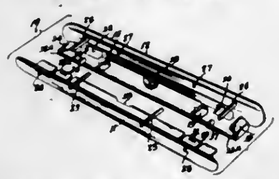
**2,644,455**
**SURGICAL INSTRUMENT**
**Jeanne A. Benoit, Anthony, R. I.**
**Application August 5, 1950, Serial No. 177,941**
**1 Claim. (Cl. 128—321)**



A surgical instrument comprising a pair of elongated members pivotally connected intermediate their ends, said members forming an annular cross-section in closed position, loop handle portions at one end of each member, the other end of each member comprising an elongated spoon-shaped portion, said spoon-shaped portions having an annular cross-section in closed position, said pivotal connection being located midway between the lower end of said loop handle portions and the tip end of said spoon-shaped portions.

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**2,644,456**
**LOOSE-LEAF BINDER**
**Allan O. Marsh, Los Angeles, Calif.**
**Application April 7, 1950, Serial No. 154,709**
**1 Claim. (Cl. 129—9)**



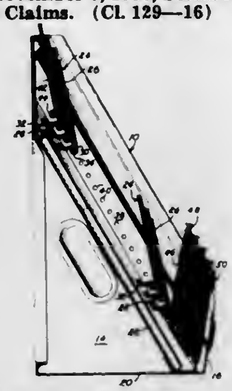
A file structure having only two parts for binding the pages of a file, each of said parts being L-shaped and each having at least one page holding pin extending in the direction of the vertical leg of the other L-shaped part, co-



operating guide means formed integrally with the horizontal legs of said L-shaped parts, a resilient tongue member having a detent formed on one of said horizontal legs arranged to maintain the other one of said horizontal legs in locked position, said cooperating guide means comprising a pair of passageways at opposite ends of one of said parts with flared mouths thereto adapted to receive the horizontal leg of the other part, said tongue member cooperating with a notched portion which is disposed at the junction of the horizontal and vertical legs of the corresponding part, and said corresponding part having an indented portion adjacent said notched portion to serve as a guide for movement of said resilient tongue member into said notched portion.

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**2,644,457**
**VISIBLE CARD INDEX FILE**
**James F. Foley and Frederick C. Gleason, New York, N. Y., assignors to Remington Rand Inc., New York, N. Y., a corporation of Delaware**
**Application November 7, 1950, Serial No. 194,526**
**4 Claims. (Cl. 129—16)**

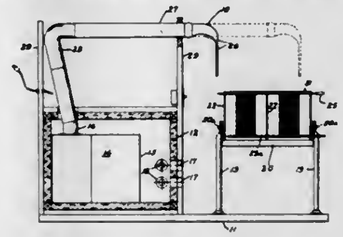


1. A filing rack for visible index cards comprising a frame formed from sheet metal blanks to provide substantially triangular shaped side walls having generally inclined upper edges, offset front and rear walls, a base and an inclined floor disposed parallel to and spaced from the inclined upper edges of said side walls, plural card holding trays each having a substantially upright face portion, an integrally formed projection rearwardly extending from the base thereof and a sleeve integrally formed therewith and disposed under said projection, members secured to said sleeve and marginally extending therefrom, tray supporting panels disposed against the interior of said side walls and secured thereto, plural apertures linearly disposed in spaced alignment in said panels, said marginally extending members adapted and arranged to pivotally secure said trays within said apertures with the projections thereon extending rearwardly beneath the next higher tray sleeve whereby pivotal movement of said trays is limited.

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**2,644,458**
**CARD SORTING MACHINE**
**Thomas F. Meagher, West Newton, Mass.**
**Continuation of application Serial No. 583,312, March 17, 1945. This application March 18, 1950, Serial No. 150,509**
**8 Claims. (Cl. 129—16.1)**

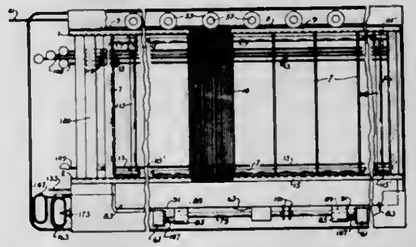
6. In a card sorting device a tray for the cards to be sorted, means for securing selected cards against movement in said tray, means for permitting movement of unselected cards, and means for separating selected and unselected cards comprising an air nozzle equal in width to the width



of the cards to be sorted, a rigid air supply tube attached to said nozzle, and a guide for said tube slidably securing said tube for guided movement whereby said nozzle may be moved in a fixed path longitudinally of said tray.

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**2,644,459**
**CARD SORTING DEVICE**
**Oliver J. Schommer, Melrose Park, Ill., assignor to Johnson Fare Box Company, Chicago, Ill., a corporation of Delaware**
**Application June 14, 1950, Serial No. 168,005**
**17 Claims. (Cl. 129—16.1)**



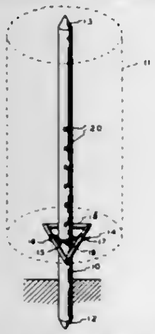
1. In a card sorting mechanism comprising a frame, presettable bars movably mounted thereon, means for selectively setting said bars, means for supporting a pack of cards edgewise above said bars, certain of said cards having tabs depending from their lower edges to cooperate with the set bars to prevent endwise movement of these cards while other cards having the tabs adjacent the selectively set bars removed are free to move endwise and armature means mounted at one end of each card, the improvement which comprises a magnet, metallic core means connected with the magnet, part of said means providing a path for magnetic flux, means mounting the metallic means adjacent said armatures, means mounted adjacent the opposite ends of the cards for movement toward said cards and also transversely across the ends of the cards to dress them against the metallic means and means for moving said metallic means away from the ends of said cards to move the free cards.

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**2,644,460**
**PEANUT VINE STACKING POLE**
**Jack M. Miller, Carrollton, Va.**
**Application August 8, 1950, Serial No. 178,305**
**2 Claims. (Cl. 130—20)**

1. A stacking device for supporting harvested growth such as vines or the like, comprising a post having a stop, a supporting unit slidably mounted on the post and engaging said stop,

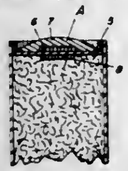
said unit comprising a central ring having an opening surrounding the post and at least three vertical rings equally spaced about the outer side of the central ring and each disposed in plane approximately normal to the plane of the cen-



tral ring, and a rigid bar extending through each of said vertical rings and extending substantially to the point of intersection with adjacent bars to form a polygonal platform, said rings and bars being secured to form a stable unit.

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**2,644,461**
**IGNITION STRIP FOR CIGARETTES**
**Frank Witt, San Francisco, Calif.**
**Application July 9, 1951, Serial No. 235,878**
**1 Claim. (Cl. 131—7)**



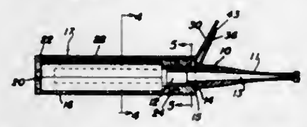
A cigarette having an igniter at one end thereof, said igniter comprising a blank disc having an explosive material centrally disposed thereon and on both sides thereof, the explosive material area on the outer end of the cigarette having an overlying protective coating of igniting material, said disc and said material overlying the tobacco at that end of the cigarette and having the margins of said disc adhered to the inner end margins of the cigarette wrapper, whereby the igniting material will be exposed for contact with an igniting abrasive, the explosive on the interior side of the disc being effective when ignited, to direct flames inwardly toward the tobacco of the cigarette.

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**2,644,462**
**TOBACCO TREATMENT**
**Walter G. Frankenburg, Millersville, Pa., assignor to General Cigar Co., Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application November 1, 1947, Serial No. 783,626**
**10 Claims. (Cl. 131—141)**

1. In the fermentation of tobacco, the improvement which comprises wetting tobacco substantially uniformly with an aqueous solution of a water-soluble, fermentation catalyst compound of an element selected from Series 4 of the Mendeleeff Periodic Table and having an atomic number between 25 and 28, inclusive, and subjecting the tobacco with the thus applied catalyst compound to fermentation in the temperature range of about 16° to 54° C.

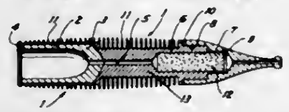
**2,644,463**
**CIGARETTE HOLDER**
**Charles E. Wheelock, Syracuse, N. Y.**
**Application June 20, 1950, Serial No. 169,122**
**1 Claim. (Cl. 131—175)**



A cigarette holder comprising a stem having a longitudinal smoke passage therein, said smoke passage including an enlarged outer end portion for the reception of a cigarette, said stem further including an externally reduced outer end portion providing a shoulder, a removable casing on the stem including a ring encircling the reduced end portion of said stem in abutting engagement with the shoulder, an integral trough of substantially U-shaped cross section projecting longitudinally from the ring, an integral, upstanding end wall on the trough including an enlarged upper portion having a rabbetted edge portion providing a seat, a closure of substantially U-shaped transverse section having one end pivotally secured to the ring for vertical swinging movement and adapted to close the trough with its longitudinal marginal portions overlapping the corresponding portions of said trough, the free end of said closure being engageable on the seat, an inwardly and upwardly inclined tongue integral with the inner end of the closure, and a substantially U-shaped spring for yieldingly urging the closure toward closed position, said spring comprising legs including coils at an intermediate point, the end portions of said legs being embedded longitudinally in the ring, the bight portion of said spring being engaged beneath the tongue.

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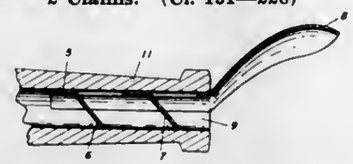
**2,644,464**
**SMOKING PIPE**
**Edgar E. Lancaster, Cleveland, Ohio**
**Application August 23, 1949, Serial No. 111,822**
**1 Claim. (Cl. 131—191)**



A smoking pipe including an elongated barrel and a mouthpiece detachably connected to said barrel, said barrel being of relatively high heat conducting material and having a generally cylindrical outline, said barrel having a tobacco bowl receiving bore at its outer end and a filter receiving bore at its inner end and a bowl in said bowl receiving bore, and a cooling portion having a smoke duct therein between said ends, said barrel having radially extending fins spaced therealong for substantially the full length thereof starting from the outer end, the radial extent of the fins and the wall thickness of the barrel being such as to provide a large diameter bowl receiving bore portion having relatively short radial fins, a smaller filter bore portion having greater radial extent fins and said smoke duct having a smaller diameter than either of said bores and having a wall thickness such that the radial fins therearound have substantially the same radial extent as those surrounding the filter bore, said bowl, said barrel and said mouthpiece being coaxial.



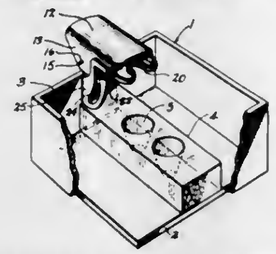
**2,644,465**
**PALATE SUPPORT FOR SMOKERS' PIPES**
**John C. Casey, San Francisco, Calif.**
**Application June 8, 1951, Serial No. 230,655**
**2 Claims. (Cl. 131—228)**



1. A palate support for smokers' pipes, comprising a stem engaging portion having spaced resilient members connected thereto, and bearing against the opposite side of the bore of the pipe from that engaged by the stem-engaging portion having a semicircular cross section conforming to the interior of the pipe bore, and a flared palate-engaging portion rigidly secured to said stem-engaging portion said palate engaging portion being bent upwardly and having an upwardly convex surface for area bearing contact with the palate of the user.

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**2,644,466**
**CIGARETTE REST AND EXTINGUISHER**
**Wendell W. Jennings, San Francisco, Calif., assignor, by mesne assignments, to Morris Kenes, Stratford, Conn.**
**Application July 25, 1949, Serial No. 106,624**
**4 Claims. (Cl. 131—235)**

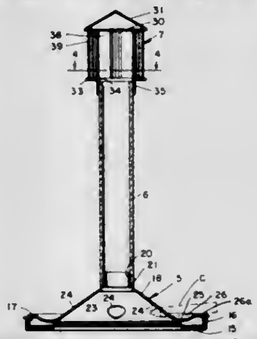


2. In combination, an ash tray equipped with a cigarette extinguishing socket, and a cigarette holder comprising a standard, a cigarette rest plate pivotable on said standard for resting a burning cigarette in a definite position relative to the socket, and a thermostatic element fixed to the rest plate in position for holding the rest plate in position to support a burning cigarette thereon and adapted to be moved by heat from the burning cigarette to effect release of the pivoted rest for gravity movement whereby the cigarette will be dumped and deposited with its lighted end projected into said extinguishing socket.

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**2,644,467**
**SMOKE SIPHONING ASH TRAY**
**George M. Breidert, La Cresenta, Calif., assignor to The G. C. Breidert Co., Los Angeles, Calif.**
**Application March 20, 1950, Serial No. 150,667**
**1 Claim. (Cl. 131—238)**

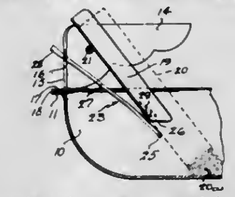
An ash tray comprising a hollow base having a bottom wall, a side wall and a top wall, together defining a smoke chamber, said top wall having an annular flat marginal portion defining a cigarette supporting surface, a frusto-conical center portion having a central outlet opening, a cylindrical upright neck in register with said opening, and an annular ash-receiving channel between said marginal and center portions, said frusto-conical center portion having a side opening, that part of said center portion defining the lower boundary of said opening being trough-shaped and substantially in the plane of said marginal portion whereby a cigarette may rest



with its burning end portion in said side opening and with its other end portion supported upon said marginal portion, a vertically disposed tubular stack member frictionally fitted on said neck, and a smoke siphoning member on the top end of said stack member.

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**2,644,468**
**THERMOSTATICALLY CONTROLLED ASH TRAY**
**Morris Kenes, Stratford, Conn.**
**Application April 17, 1950, Serial No. 156,362**
**12 Claims. (Cl. 131—240)**



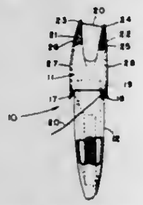
6. A smoker's ash tray comprising a container for receiving ashes from a burning cigarette, holding means for a lighted cigarette comprising a bracket including laterally spaced upright side walls and a connecting end wall provided with an opening therethrough, means mounting the bracket on the container, a trough shaped holder for a lighted cigarette pivotally mounted between the side walls in an unbalanced position so that its inner end tends to drop to deposit a lighted cigarette in the holder into the container, a bimetallic thermostat connected at one end to the holder and including a curved intermediate portion adjacent the inner end of the holder in position to be responsive to heat from the lighted end of a cigarette in the holder, and the other end of the thermostat engaging the end wall at one side of the opening to retain the holder in the unbalanced position and movable by heating of said curved portion into alignment with the opening to permit the inner end of the holder to drop to deposit the cigarette in the container.

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**2,644,469**
**DENTAL FLOSS CONTAINER AND MANIPULATOR**
**Maximilian Cohen, Brooklyn, N. Y.**
**Application October 4, 1951, Serial No. 249,758**
**5 Claims. (Cl. 132—92)**

1. A dental floss holder comprising a hollow cap and a hollow base for housing a spool of dental

floss, said cap having its lower hollow portion interiorly threaded and its lower outer edge rounded, a pair of opposed projections depending from said lower edge for wedging said dental floss between said projections and said base, said projections slightly thinner than the thickness of said lower cap and tapered at the inner lower ends to direct the floss between said projections and said base, a vertical slit in the lower edge of said cap adjacent one side of each of said projections for wedging in said dental floss, the upper part of said cap having a large prong and a smaller prong substantially in the same plane, said prongs tapered towards the upper ends and having rounded sides, the tops of each of said prongs having a slit to permit said dental floss to form a bridge between said prongs and to hold and wedge said dental floss therein, a shallow angular channel on each of the outer faces of said prongs between the slit of said prongs and the slit adjacent said projection to house the dental floss below the plane of the outer surface of said prongs, said larger prong having its outer

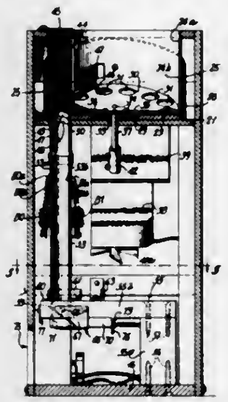


face convexly curved, said smaller prong having its outer face in substantially a vertical plane, said base having an upper shoulder acting as a stop for said cap and an exteriorly threaded upper portion smaller in diameter than the upper part of said base to coact with said interiorly threaded portion of said cap for seating said cap thereon, a vertical channel in said exteriorly threaded portion running from its outer edge to slightly below said shoulder for passing said dental floss from within said base to the outside, a cutting and floss holding member at the upper part of said base below said shoulder opposite said vertical channel, said cutting member and said vertical channel being adjacent said projections when said cap is on said base, whereby said dental floss may be threaded through the lower part of said vertical channel, beneath one of said projections, through a slit adjacent said projection, through the slits of said prongs and through the slit and behind the opposite said projection and behind said cutting member to firmly hold said floss in position bridging said two prongs.

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**2,644,470**
**COIN DISPENSING MACHINE**
**Roy J. Labbe, Baltimore, Md.**
**Application January 15, 1951, Serial No. 206,110**
**2 Claims. (Cl. 133—5)**

1. In a coin dispensing machine, in combination, a hopper, a dispensing tube positioned below the hopper, a rotatable disc mounted on the bottom of said hopper, said disc having openings therein slightly larger than the diameter of the coins being dispensed, the openings in the disc feeding coins to the upper end of said tube, an electric motor for driving the disc, a pair of switches mounted on said tube, each of said switches including nose portions extending into the tube, said nose portions being vertically spaced, with respect to each other, the switches being connected in parallel in the motor circuit, whereby the circuit to said motor is broken when both switches are open, the coins in said tube acting successively upon the nose portions of the



switches to move the same to open positions when coins stacked in said tube reach the level of each nose portion, and means for dispensing coins from the lower end of the tube.

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**2,644,471**
**COIN HOLDER**
**Howard S. Brown, Elyria, Ohio**
**Application February 11, 1950, Serial No. 143,759**
**2 Claims. (Cl. 133—6)**

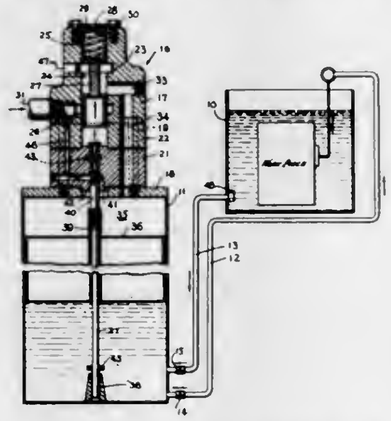


1. A coin holder comprising a body portion having a lower wall and an upper wall, said upper wall being formed with an opening therein through which coins may be engaged to move them, said body having one open end and one closed end, a tab extending from said lower wall at said open end, said tab increasing in thickness toward its end to form a stop means for said coins, said tab having a hole therein, and a chain disposed in said hole adapted further to hold said coins within said body.

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**2,644,472**
**FLUSHING DEVICE**
**Edgar A. Ward, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York**
**Application September 7, 1951, Serial No. 245,488**
**5 Claims. (Cl. 134—56)**

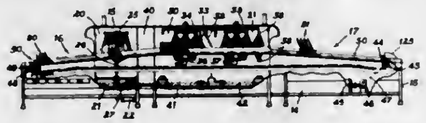
1. Flushing apparatus comprising a flushing tank, a sealed reservoir, reversible fluid transmission means for fluid flow from the reservoir to the tank when pressure is applied to fluid in the reservoir and for its return flow into the reservoir by gravity when such pressure is relieved, a float disposed upon and covering the surface of fluid in the reservoir, said float assuming its first position when the reservoir is substantially full of fluid and being adapted to move downwardly from such first position against the reservoir fluid in response to pressure thereby to force fluid from the reservoir to the tank, a pressure control unit having a passage to transmit compressed air from an outside source into the reservoir against the float, and a valve in such passage normally spring urged to open position to permit the movement of compressed air therethrough, said valve being responsive to the action of the float so that when the latter is in its first position said valve remains open and



when the float has moved downwardly to a predetermined position in response to the action of the compressed air, said valve will close to cut off the compressed air from the float and to vent the reservoir thereby terminating the flow of fluid from the reservoir to the tank and permitting the return flow of fluid from the tank to the reservoir by gravity.

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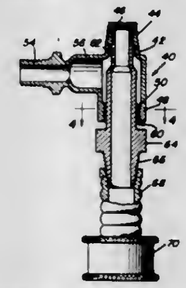
**2,644,473**
**DISHWASHER**
**Gerald B. Fox and David A. Meeker, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio**
**Application May 16, 1950, Serial No. 162,358**
**19 Claims. (Cl. 134—72)**



1. A continuous conveyor adapted for use in a dishwasher of the character described comprising a pair of continuous side members movable through a wash chamber, a plurality of cross members secured to said side members in spaced relation longitudinally of said side members to provide an essentially open construction for free passage of wash sprays therethrough, means forming a plurality of spaced fingers extending upwardly from said cross members in aligned relation across said conveyor to define a plurality of laterally arranged recesses for receiving dishes to be washed in generally upright position for free access thereto by said wash sprays passing through said conveyor, means for maintaining said fingers in spaced and aligned relation defining a plurality of similar dish receiving recesses arranged longitudinally of said conveyor, and means on said conveyor cooperating with said fingers to support said dishes in each said plurality of recesses out of contact with said cross members.



**2,644,474**
**MEANS FOR FLUSHING OUTBOARD MOTORS**
**Frank M. Houchin, Miami, Fla., assignor of one-half to William C. Lauth, Miami, Fla.**
**Application March 16, 1951. Serial No. 215,907**
**2 Claims. (Cl. 134—166)**



1. In combination, a T-coupling having all of its branches open with one branch being both internally and externally screw-threaded, the opposite branch being internally screw-threaded to accommodate a screw-plug, the remaining branch being constructed to accommodate a coolant discharge tube, an injector nozzle telescopically fitting in and through said first named branches and having one end screw-threaded and screwed into said first named branch, said nozzle bridging and blocking off said remaining branch and extending through and beyond the second named branch and being provided with means whereby a garden hose may be attached thereto.

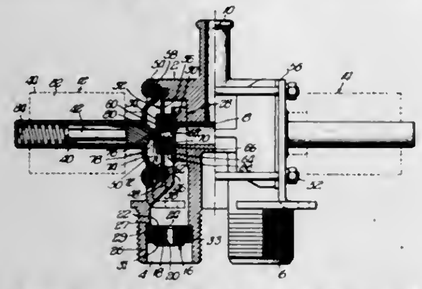
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**2,644,475**
**UMBRELLA TIP**
**Rose H. Morton, New York, N. Y.**
**Application November 22, 1949, Serial No. 128,875**
**2 Claims. (Cl. 135—36)**



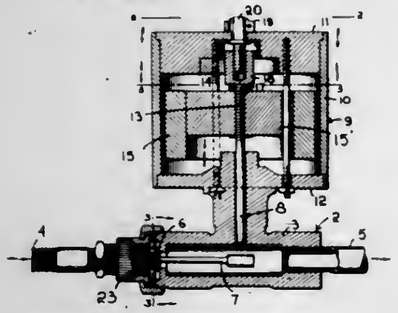
1. A tip for umbrellas comprising, in combination, a primary tip member composed of an upper portion having a head, a lower skirt portion having a socket and an intermediate portion having a transverse thread-receiving opening, and an extension skirt member embodying two integrally-formed portions comprising an upper connection portion having a socket of relatively large dimension and circular configuration adapted to receive the lower skirt portion of the primary tip member, and a lower mounting portion having a contracted socket of elliptical configuration communicating with the socket of larger dimension in said upper portion and adapted to fit over a connecting member at the end of an umbrella rib, means on the inner surface of said contracted socket portion for engaging and fastening such connecting member to said contracted portion, and said primary tip and extension skirt members also having interengaging connection means for fastening said primary tip and extension skirt members together.

2,644,476
**FLOW CONTROL VALVE**
**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**
**Application June 10, 1950, Serial No. 167,283**
**4 Claims. (Cl. 137—88)**



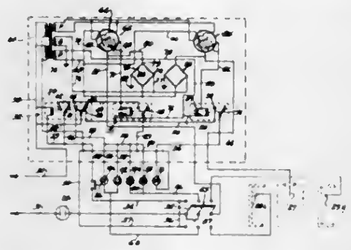
2. A mixing valve comprising a valve body having a mixing chamber, inlet means for each of a plurality of liquids, outlet means for said mixing chamber, and an automatic flow control device for each of said inlets, each of said devices comprising a member of resilient material seated in an inlet in engaging relation with the inner wall thereof, said devices having a substantially centrally disposed orifice therethrough whereby liquid from any one of said inlets is delivered to said mixing chamber in substantially equal amounts in equal intervals of time, each of said resilient members having different flow characteristics.

2,644,477
**MAGNETICALLY BIASED FLUID PRESSURE RESPONSIVE VALVE**
**George R. King, Houston, Tex.**
**Application June 4, 1949, Serial No. 97,172**
**5 Claims. (Cl. 137—224)**



1. A device for charging a receiver with compressed air supplied from a source of such air comprising, a conduit connecting the source with a receiver to be filled, a valve controlling communication between the source and conduit, a stem connected to said valve and extending longitudinally of said conduit, a weighted piston extending laterally of said conduit and communicating therewith, a magnetized member secured to said piston, said piston movable by gravity and magnetic attraction to contact said stem to cock said valve in open position whereby air is conducted through said conduit to the receiver, said piston being movable from contact with said stem by the force of sufficient air pressure acting against said piston to release said valve from its cocked open position.

2,644,478
**CONTROL MEANS FOR COFFEE-MAKING APPARATUS**
**George V. Calabrese, Chicago, Ill., assignor to Lumenite Electronic Company, Chicago, Ill., a corporation of Illinois**
**Application August 11, 1949, Serial No. 109,761**
**2 Claims. (Cl. 137—263)**

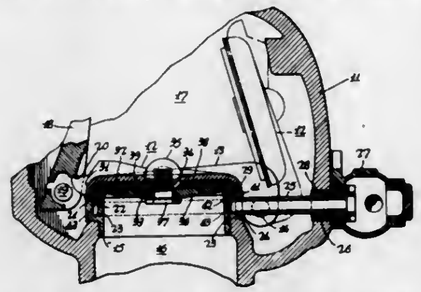


1. Electrical control means for coffee brewing apparatus comprising a pair of brewing urns, a hot water tank for heating water to be supplied in succession to the urns, a pair of ducts each for delivering water from the tank to one of the urns, a third duct for supplying water to the tank, each of said ducts being provided with a self-closing valve, said control means comprising electrically actuable devices for opening the valves, an electrode for each urn and for the tank located at the high level of liquid therein, and electric circuits for effecting energization of said actuable devices for the urns including a selector switch operable manually to either of two positions for rendering a respective device operable upon closing of a starter switch, a self-opening starter switch operable manually for effecting energization of the selected one of said devices for opening the corresponding control valve for admitting water to the corresponding urn, a holding circuit for retaining the circuit of said device closed until the water has reached the level of and contacted the responsive electrode in the urn, means for automatically opening said holding circuit upon contact of water in the urn with said electrode for permitting the respective valve to close and concurrently effecting the supplying of current to the said device for opening the valve of said tank to permit the flow of water into the tank, and a circuit including said electrode in the tank for effecting the de-energization of said last mentioned device upon the contacting of the water in the tank with said electrode.

2,644,479
**DRY PIPE VALVE**
**Arthur C. Rowley, Drexel Hill, Pa., assignor to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania**
**Original application July 21, 1950, Serial No. 175,151, now Patent No. 2,586,720, dated February 19, 1952. Divided and this application June 29, 1951, Serial No. 234,276**
**8 Claims. (Cl. 137—312)**

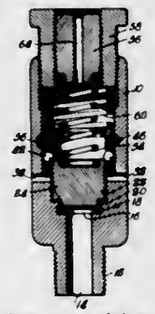
1. In a dry pipe valve, a valve seat member comprising concentric annular seats spaced radially from each other, a cup shaped valve element having an annular seating surface on the rim thereof for confronting registration with the outer of said seats, and a cup shaped gasket means mounted in the interior cavity of said valve element and having an outwardly projecting flange overlying said rim for confinement between the said outer seat and the said seating surface when the valve element is seated, together with a second flange projecting inwardly





for sealing engagement when the valve element is seated with the inner of said seats.

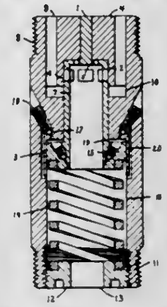
2,644,480
**FLUID VALVE**
**Clarence E. Earle, Washington, D. C., and Carl A. Covington, Alexandria, Va.**
**Application October 27, 1948, Serial No. 56,748**
**16 Claims. (Cl. 137—469)**



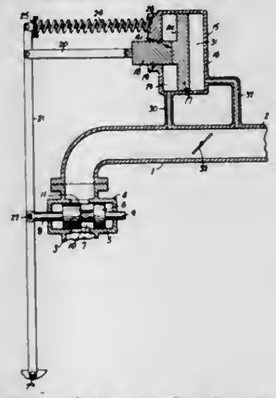
1. A fluid valve comprising a housing, a valve seat in said housing, a body reciprocable in said housing to and from engagement with said seat, abutment means carried by said housing fixed relative to said body, biasing means interposed between said abutment means and body continuously urging said body towards engagement with said seat, and latching means alternately actuated and released by said body during its travel to modify the effect of said biasing means on said body.

2,644,481
**AUTOMATIC FLUID TRANSFER VALVE**
**David Perlman, New Orleans, La.**
**Application January 14, 1948, Serial No. 2,180**
**3 Claims. (Cl. 137—494)**

1. In an automatic fluid transfer valve, the combination of a housing having an inlet end and a discharge end, said housing containing an internal circumferential groove and also passages leading to said circumferential groove, a unitary structure multi-diameter piston in said housing having a solid small diameter member at the inlet end of the housing, an intermediate hollow member of larger diameter fitted in said housing and containing slots adapted to be moved into and out of register with said circumferential groove, a still larger diameter hollow piston member fitted in said housing and integral with said intermediate member, the discharge end of said housing containing a chamber, a spring in said chamber tending to urge said multi-diameter piston against fluid pressure, said housing containing an annular compartment surrounding said intermediate piston member and adapted to receive fluid pressure, and check valves and passages associated with said annular chamber for releasing fluid pressure therefrom into the discharge chamber when the fluid pressure acting on said solid piston member decreases to a predetermined amount.



2,644,482
**FLUID FLOW REGULATOR**
**Robert Anthony McCallum, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Application November 13, 1944, Serial No. 563,253**
**24 Claims. (Cl. 137—501)**



1. In a flow-regulating device, in combination, means forming a passage for conducting fluid having a supply end and a delivery end, means between said supply end and said delivery end for restricting flow and creating a differential in pressure between the upstream and downstream sides of said flow-restricting means, and a device for controlling the supply of fluid to the supply end of said passage including means forming a conduit leading to the supply end of said passage and an element having a portion movable relative to said conduit to vary the flow therethrough, said device having, for moving said element to vary the flow, an area facing in a direction to provide under the action of fluid pressure thereon a force tending to move said element to provide for increased flow past the same, a smaller area facing in a direction to provide under the action of fluid pressure thereon a force tending to move said element to diminish flow past the same, and means for effecting the subjection of said first mentioned area to the pressure at the downstream

side of said flow-restricting means and for subjecting said smaller area to the pressure at the upstream side of said flow-restricting means, the ratio of said first mentioned area to said smaller area being the same as the ratio of the absolute pressure at the upstream side of said flow-restricting means to the absolute pressure at the downstream side of said flow-restricting means.

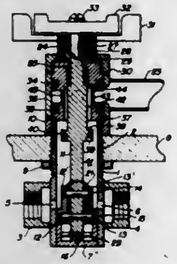
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**2,644,483**

## HOT AND COLD WATER MIXING VALVE

**Frank H. Parker, Cleveland Heights, Ohio, assignor of one-half to Stephen C. Peplin, doing business as Lakewood Manufacturing & Engineering Co., Westlake, Ohio**

**Application August 2, 1950, Serial No. 177,160**
**3 Claims. (Cl. 137—605)**



1. In a faucet having a casing, a mixing chamber and a discharge outlet, a pair of fluid pressure lines and a transverse arcuate port for each leading to said mixing chamber, a single combined mixture and volume control valve for said ports arranged in said casing between said pressure lines and said mixing chamber, said valve being carried by a single stem and comprising complementary semi-circular hollow segments with resilient means to urge them outwardly in said casing, each of said valve segments, each having uniform lower wall thicknesses, each having adjacent upper wall thicknesses equal to that of the lower segment portions, and each having adjacent upper wall thickness sections that are annularly reduced so as to be spaced radially inwardly from said casing to be ineffective to close said ports while the remainder of said segments are effective as closers for said ports throughout their arcuate length, a pair of independently manually operable controls, one for rotating said stem for rotating said valve for regulating the proportion of fluid flow from said lines past ports into said mixing chamber and the other manual control for linearly adjusting said stem for linearly adjusting said valve to control the volume of fluid flow from said lines past said ports into said mixing chamber.

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**2,644,484**

## MULTIPORT VALVE

**Harry Mansen, Barrington, Ill., assignor to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois**

**Application December 29, 1944, Serial No. 570,271**
**16 Claims. (Cl. 137—627)**

1. In a plate type valve, the combination of a ported body member, a ported stem plate adapted to effect different communications between the ports in the body member in different positions of the plate, a cover on the body member enclosing the plate, a transverse wall in said cover separating the plate chamber from an atmospheric chamber, one of the ports in the body member being a pressure port and normally communicating with the plate chamber, an upstanding neck portion on the body member surrounding the pressure port and projecting upwardly through an opening in the stem plate and providing a valve seat on the outer end thereof, an operating stem reciprocable and rotatable in the wall in said cover in substantially coaxial relation with said neck portion, a plate on the inner end of said stem reciprocable and rotatable therewith, means providing a slidable operating connection between the latter plate and stem plate so as to permit endwise movement of the stem independently of the stem plate but cause rotation of the stem plate with the stem, a shut-off valve movable with the stem and the

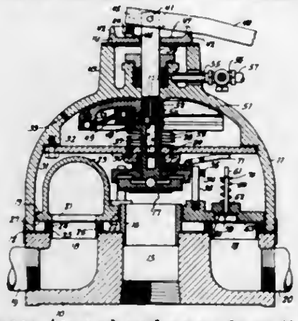


plate thereon toward and away from the seat on the upstanding neck, and means for reciprocating and rotating the stem comprising a manually rotatable stem having a slidable driving connection with the first stem, pressure fluid operable diaphragm means carried on the second stem in the atmospheric chamber in said cover and operatively connected with the first stem to reciprocate the same, and valve means connected with a source of pressure fluid supply and with a pressure fluid drain for controlling the release of pressure from the pressure fluid operable means to the drain and communication of said pressure fluid operable means with the source of pressure fluid supply.

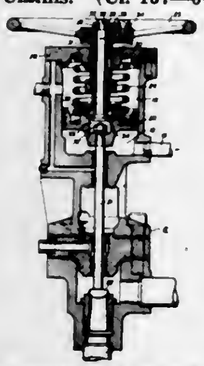
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**2,644,485**

## MANUALLY AND FLUID PRESSURE OPERATED VALVE

**Anthony F. Schwendner, Ridley Park, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application November 19, 1949, Serial No. 128,355**
**3 Claims. (Cl. 137—641)**



1. A throttle valve for a turbine provided with an emergency governor, a piston operatively connected to the throttle valve; a casing structure including a cylinder for the piston; means for applying oil under pressure to the piston to exert opening force on the throttle valve; a spring interposed between a portion of the casing structure and said piston for exerting closing force on said valve; the closing force exerted by the spring being substantially less than the normal opening force exerted by oil pressure on the piston; manual means including a sleeve operatively mounted in screw-threaded engagement in said casing structure, a hand wheel secured thereto and a latch mounted on the handwheel, a spindle rotatably secured to said piston and extending through said sleeve, said spindle having a collar engageable by said latch when said oil pressure is less than the force of said spring, so that the latch, when in engaged position, provides for opening the valve by rotation of the hand wheel when the oil pressure acting on the piston is inadequate for this purpose; and biasing means for tripping out the latch upon disengagement therefrom of said collar of the spindle when the force of oil pressure acting on the piston exceeds the force of the spring thereby providing for closing of the throttle valve by the spring when the oil pressure is removed.



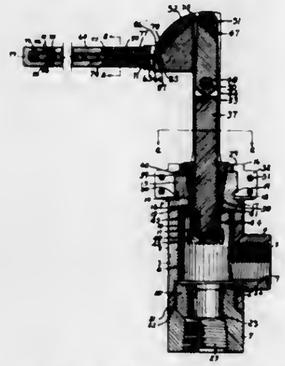
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**2,644,486**

## QUICK-OPENING VALVE

**Byron C. Christensen, Oklahoma City, Okla., assignor to Drilling Equipment Mfg. Co., Oklahoma City, Okla., a corporation of Oklahoma**

**Application August 28, 1948, Serial No. 46,567**
**7 Claims. (Cl. 137—704)**



1. In a valve of the character described including a valve body, a valving member reciprocable within the valve body, a valve stem connected with the valving member and extending coaxially through the valve body, and a valve bonnet connected with the valve body, a valve operating means including an operating lever pivotally connected with the valve bonnet, a latch engaging member pivoted to swing with the operating lever and having a latch engaging portion, a link connecting the valve stem with said latch engaging member, a rod reciprocably and oscillatably supported in the operating lever, a latch on said rod having oppositely positioned straight and bevelled faces adapted to engage said latch engaging portion of the latch engaging member, a cap forming an extension of the operating lever and connected with said rod for turning the rod to position the latch in engagement with said latch engaging portion, a spring carried by the operating lever and normally retaining the latch in engagement with said latch engaging portion, and cam means on the cap and engaging cam portions on the lever for retracting the latch against action of said spring and for retaining the latch faces in selected positions with respect to the latch engaging portion.

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**2,644,487**

## REINFORCED FLEXIBLE CONDUIT

**Frank S. Schindler and Richard K. Titus, Elgin, Ill., assignors to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois**

**Application February 13, 1948, Serial No. 8,116**
**6 Claims. (Cl. 138—49)**



1. A reinforced flexible conduit structure comprising a plurality of discrete and integral reinforcing and corrugating die rings, said rings having relatively narrow and inwardly directed radial portions and outer peripheral flange portions varying in thickness due to manufacturing tolerances and axially wider than said radial portions to provide abutment surfaces, and an annularly corrugated conduit positioned with its trough portions in alignment with the inner edges of said radial portions and expanded outwardly therebetween and within said outer peripheral flange portions to provide a flexible annularly corrugated conduit with pitch distances between successive corrugations varying in accordance with manufacturing tolerances, the radial portions of said rings positioned in the troughs of the conduit and the outer peripheral portions of said rings overlying the crest portions of the conduit and with the abutment surfaces of the rings positioned for mutual contacting engagement to limit contraction of the flexible corrugated conduit, said die rings being effective to cause variations in the thickness of the ring flange portions to correspond respectively with variations in the pitch distances between successive corrugations of the conduit.

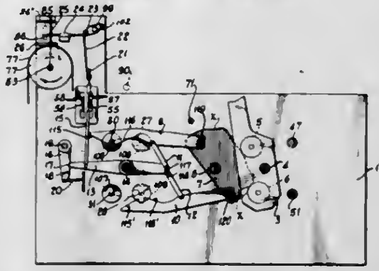
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**2,644,488**

## SHEDDING MECHANISM FOR LOOMS

**Erwin Pfarrwaller, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland, a corporation of Switzerland**

**Application September 16, 1948, Serial No. 49,469**
**In Switzerland September 20, 1947**
**22 Claims. (Cl. 139—68)**

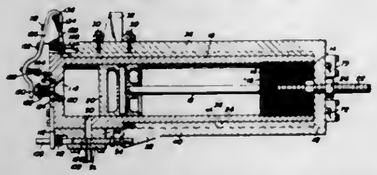


18. A dobby for positive actuation of the shedding mechanism in looms for weaving, comprising a harness operating member, a cam swingable about a fulcrum and engaging said member, two actuating members individually pivoted to said cam for swinging it about its

fulcrum, two actuating bars individually engageable with said actuating members for actuating same when in engagement therewith, a switching lever, two link members individually pivoted to one end of said switching lever and to said actuating members and placing same for engagement and disengagement with said actuating bars depending on the position of said switching lever, a control rod pivoted to said switching lever and having two oppositely positioned recesses, a draw bar disposed on either side of and at a right angle to said control rod adjacent said recesses and adapted to be temporarily engaged thereby, two levers pivoted individually to said draw bars at a right angle thereto, each lever having a cam follower roller connected therewith, two cams individually engaging said rollers and being so formed as to actuate said levers to move said draw bars in opposite directions from and to a central position, a positioning lever having one arm movably connected to said control rod for laterally swinging it into and out of engagement of one of its recesses with one of said draw bars, a pattern card feeler movably connected with the other arm of said positioning lever, a substantially reciprocatingly movable feeler lifter abutting said other arm for swinging said lever and its feeler out of card engaging position, a shaft displaceable parallel to itself in the direction of movement of said card feeler and swingably supporting said positioning lever, and drive means connected with said feeler lifter and said last shaft for simultaneously moving said feeler lifter and displacing said shaft.

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**2,644,489**
**PNEUMATICALLY OPERATED PICKER MECHANISM FOR LOOMS**
**Charles G. Scott, Kingsport, Tenn.**
**Application December 11, 1950, Serial No. 200,147**
**7 Claims. (Cl. 139—144)**

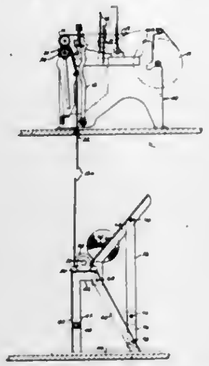


1. A picker mechanism for looms comprising a fluid pressure cylinder having a piston slidable therein, a carriage connected to said piston for movement therewith, means connected to said carriage for actuating a loom picker upon reciprocation of said carriage, fluid pressure supply means and fluid pressure exhaust means for said cylinder, a valve controlling said supply means, and operating means for said valve responsive to movement of said carriage a predetermined distance in one direction.

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**2,644,490**
**AUXILIARY CLOTH WINDING MEANS FOR LOOMS**
**Milton Ray Harden, Stonewall, Miss., assignor to Erwin Mills, Inc., Durham, N. C., a corporation of North Carolina**
**Application February 12, 1951, Serial No. 210,504**
**2 Claims. (Cl. 139—308)**

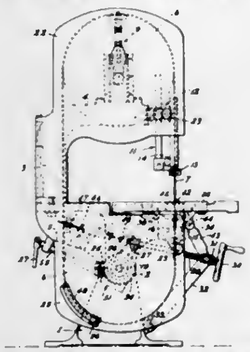
1. In a loom having a driven sand roll, the combination of a cloth winding apparatus having a fixed frame, a roll in the fixed frame driven by the sand roll, a pair of spaced support bars, said support bars being adapted to support a lap pin, means pivoting one of the ends of the support bars to the fixed frame at points adjacent to but at a lower level than the driven roll, whereby when the free ends of the support bars are moved upwardly the lap pin will move by gravity into contact with the driven roll, an oscillatable shaft mounted in a lower portion of the fixed frame and having a lever fixed thereto, a first



pair of links having one of their ends secured to the oscillatable shaft, a second pair of links having their upper ends pivotally secured to the support bars, means pivotally securing the lower ends of the second pair of links to the upper ends of the first pair of links and means for latching the lever against movement when the first and second pairs of links are in alinement with each other.

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**2,644,491**
**TILTABLE BAND SAW MACHINE**
**David Abraham, Waltham, Mass., assignor to Hampden Brass and Aluminum Company, Springfield, Mass., a corporation of Massachusetts**
**Application February 10, 1951, Serial No. 210,361**
**11 Claims. (Cl. 143—24)**

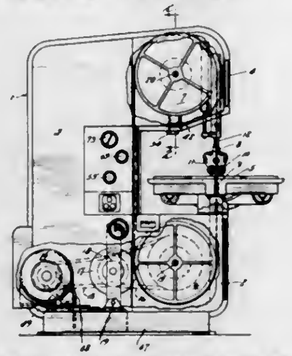


1. In a band-saw machine, a base, a frame pivotally connected to said base, a saw band supporting wheel rotatably carried by the frame, a second saw band supporting wheel rotatably carried by the base and mounted for rotation about the axis of said pivotal connection, a horizontal work table directly and pivotally connected to said frame for movement therewith, the axes of said pivotal connections being parallel, and means to simultaneously pivot said frame and table about their respective pivotal connections through equal arcs to impart an arcuate movement to the table concentric to the axis of the pivotal connection of the frame to the base while the table remains horizontal.



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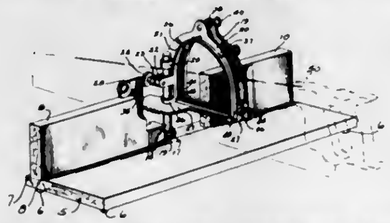
**2,644,492**
**SAFETY LOCK FOR BAND SAW TENSIONING MECHANISM**
**Robert L. Crane, Savage, Minn., assignor to Continental Machines, Incorporated, Savage, Minn., a corporation of Minnesota**
**Application June 21, 1950, Serial No. 169,501**
**6 Claims. (Cl. 143—27)**



2. In a machine of the class described, a fixed supporting structure, a plurality of pulleys, a cutting band trained over said pulleys, means mounting one of said pulleys for shifting movements toward and from the other pulley structure to effect tightening and loosening of the band, a normally set brake associated with the shiftable pulley mounting for arresting band-loosening movements of the shiftable pulley, said brake comprising cooperating brake elements, structure mounting one of the brake elements on the fixed supporting structure and the other thereof on the shiftable pulley mounting means and guiding one thereof for movements toward and away from the other thereof, yielding means urging said movable brake element toward its cooperating brake element to set the brake, releasable power operated mechanism associated with the shiftable pulley mounting for urging the shiftable pulley mounting in a band-tightening direction, releasable power operated mechanism associated with said brake for releasing the brake against bias of said yielding means, and manually-operated control mechanism for said first mentioned releasable power operated mechanism.

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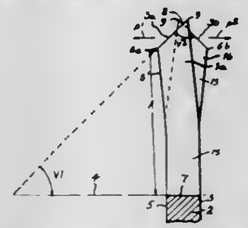
**2,644,493**
**ADJUSTABLE MITER BOX**
**Harold H. Hempe, Wauwatosa, Wis.**
**Application August 14, 1948, Serial No. 44,289**
**5 Claims. (Cl. 143—89)**



1. In a miter box, the combination with a saw guide, of an upright post upon which said guide is oscillatable, and means on the box for latching the guide in selected angles of adjustment, the post having an off center base of circular contour and a mounting comprising a bearing in which the base is rotatable for eccentrically adjusting the post in said mounting for calibrating the saw guide to said latching means, together with means for clamping the post in calibrated position.

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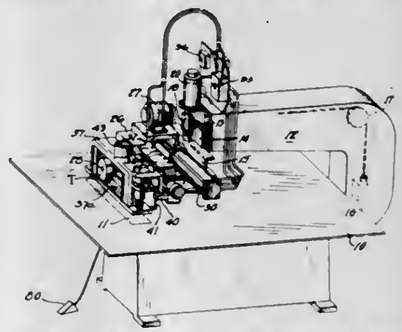
**2,644,494**
**SMOOTHING SAW BLADE**
**Axel Eugén Lundberg, Sundsvall, Sweden**
**Application May 5, 1950, Serial No. 160,123**
**In Sweden May 6, 1949**
**9 Claims. (Cl. 143—140)**



1. A saw blade with set teeth, each having a cutting edge formed by the intersection of the breast and back surfaces of the tooth, said back surface of each tooth being inclined downwardly in the direction of the set at an acute angle relative to the perpendicular to the plane of the saw blade, the angle between the back surface of each tooth and the side surface of the tooth on that side toward which the set is effected being larger than 90°, consecutive teeth being oppositely set, the cutting edges of consecutive teeth, when viewed in the direction of the row of teeth forming an angle between them, the apex of said angle being directed radially outwardly.

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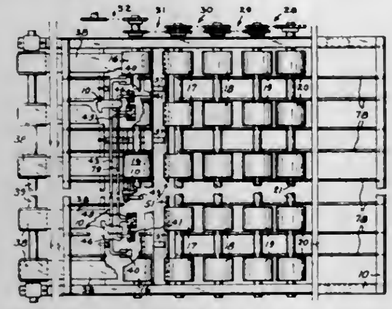
**2,644,495**
**ROUTING MACHINE FOR REMOVING DEFECTS FROM WOOD**
**Elbert V. Bennett and Harrell Renn, Albany, Oreg., assignors to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon**
**Application August 30, 1950, Serial No. 182,285**
**19 Claims. (Cl. 144—136)**



6. In a routing machine for removing defects from wood, a routing tool mounted for vertical movement and horizontal traverse, a suction housing enclosing said tool and mounted for vertical movement relative to the tool, and means

actuated by said relative movement to traverse the tool in response to engagement of said housing with a workpiece under treatment.

2,644,496
**EDGE GLUING DEVICE**
Dale L. Schubert, Tacoma, Wash., assignor to Plywood Research Foundation, Tacoma, Wash., a corporation of Washington
Application June 15, 1948, Serial No. 33,049
9 Claims. (Cl. 144—279)



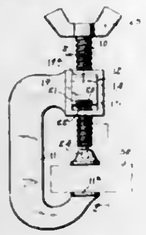
1. An edge gluing device for gluing a continuous series of pieces of random width stock to form a continuous sheet, comprising a conveyor for transferring a continuous series of pieces of sheet stock crosswise and one after another; means separating a leading and its trailing piece of stock comprising movable stop means positioned in the path of travel of pieces on said conveyor, said stop means being normally in sheet stopping position; control means for said stop means disposed in the path of travel of said pieces on said conveyor and operable by the trailing edge of the leading piece to move the stop means out of sheet stopping position of the trailing piece; glue applicator means movable into and out of glue applying position between the spaced pieces to apply glue to one of the two spaced edges of the separated pieces of sheet stock; glue applicator moving means; control means for said glue applicator moving means actuated by said control means for said stop means; and means relatively urging the trailing piece of stock in edge abutting relation with the leading piece after said glue has been applied.

2,644,497
**CLAMP USED IN CLAMPING PLASTIC BLOCKS TOGETHER IN PLANK CONSTRUCTION**
Emory M. Wilmer, Chillum, and William P. Hunter, Silver Spring, Md.
Application September 25, 1950, Serial No. 186,666
2 Claims. (Cl. 144—303)



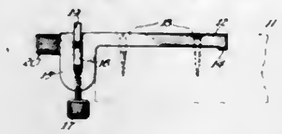
1. An apparatus for temporarily clamping hollow building blocks together in a row in the formation of building planks, comprising plates having openings, fitted against the end blocks of such row of blocks, a rod having a threaded end, extending through the openings of said plates and openings of the hollow blocks, a cone-shaped wedge slidably mounted on said rod, and positioned in the opening of one of said plates, said cone shaped wedge having means to lock on said rod, a nut on the threaded end of the rod bearing against the other plate, and said nut and cone-shaped member adapted to cooperate in drawing the plates towards each other clamping the blocks of the row of blocks together.

2,644,498
**AUTOMATICALLY ADJUSTABLE C CLAMP**
William J. Malecki, New York, N. Y.
Application February 19, 1949, Serial No. 77,329
3 Claims. (Cl. 144—305)



1. An article of the class described comprising a main body including a hollow enlarged end piece, hollow slide means retained for sliding movement in said end piece and including half nut threads on its interior surface, a clamp screw rotatably received in said hollow end piece and adapted to engage said half nut threads, said slide being loosely retained in the hollow end piece to permit a limited movement thereof in an axial direction of said clamp screw, tension means on said slide and urging said half nut threads laterally into normal engagement with said clamp screw, and a shoulder on said slide engaging said end piece upon a slight axial movement of said slide to prevent accidental inward movement of said slide when the clamp is in use.

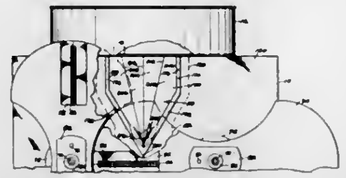
2,644,499
**ADJUSTABLE BENCH STOP**
Henry H. Logan, Chicago, Ill.
Application June 3, 1950, Serial No. 165,996
3 Claims. (Cl. 144—308)



1. A bench stop comprising a plate to be secured to a bench top at one end thereof, a stop plate receiver carried by the plate at one end thereof and serving as a downwardly projecting flange adapted to lie contiguous and alongside the adjacent end of the bench top, an upwardly opening longitudinally extending slot formed in said receiver, an adjustable device associated with said receiver and operable to engage the lower edge of the hereinafter mentioned stop plate at a point intermediate the ends of said lower edge and intermediate the hereinafter mentioned vertically extending slots, a plurality of upwardly opening spaced-apart vertically extending slots formed in the vertical wall of said slot which is to lie away from the bench end whereto the receiver is contiguous, and a stop plate unit, removable from and restorable to the receiver as such unit, comprising a stop plate receivable in said longitudinally extending slot and a pair of tightener screws each threaded into the stop plate and each adapted to occupy one of said vertically extending slots with a loose fit.

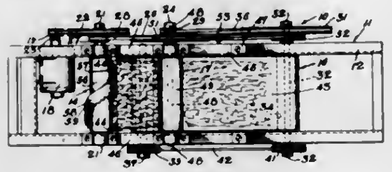


2,644,500
**FEED CHUTE FOR POTATO CHIP MACHINES**
Bernhardt Stahmer, Omaha, Nebr.
Application March 22, 1950, Serial No. 151,230
4 Claims. (Cl. 146—78)



1. In a potato slicing machine: a chute for holding potatoes while the latter are being cut, said chute having an opening disposed in an approximately vertical plane, said opening having an approximately V-shaped lower section as seen in frontal elevation, said lower section being bounded on two opposite sides by two inclinedly disposed wall portions having a downwardly disposed apex, said wall portions each having an elongated forward terminal edge disposed in said plane, said edges each having an elongated shallow recess therein adjacent said apex and extending along said edge, said recesses each being in that elongated corner of the respective one of said edges which corner is disposed adjacent said delivery opening, said recesses each being concavally curved in a direction in alignment with its respective elongated corner, and said recesses each being approximately flat in a direction transverse to its respective elongated corner with the exception that the innermost edges of said recesses are bevelled convexedly.

2,644,501
**CUTTING ELEMENT FOR COMPOSTING MACHINES OR HAY COMMINUTING MACHINES**
Price W. Perry, Encino, Calif.
Application May 15, 1951, Serial No. 226,422
5 Claims. (Cl. 146—119)



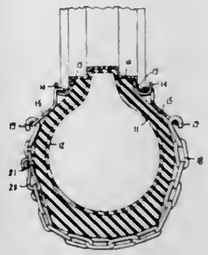
1. In a rotary cutter of the class described, a cylindrical body having a flat helical ridge on its cylindrical surface, a band-type helical steel blade seated closely on said ridge, said blade being formed with a plurality of serrations along one of its edges, each of said serrations having one of its sides parallel to the axis of rotation of said body, the said parallel side of each of said serrations being sharpened, the said serrations extending forwardly from the edge of said supporting helical ridge, means to retain said blade on said ridge, and a shaft coincident with said cylindrical body axis adapted to support said cutter rotatably in a compost machine.

2,644,502
**FASTENING DEVICE**
George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 11, 1951, Serial No. 250,828, now Patent No. 2,636,533, dated April 28, 1953, which is a division of application Serial No. 672,947, May 29, 1946. Divided and this application February 19, 1953, Serial No. 337,737
8 Claims. (Cl. 151—41.75)



1. A fastener unit comprising a fastener part having a barrel and a laterally disposed flange at one end thereof, a retainer formed with an apertured base portion surrounding said barrel and including portions securing said base portion to the flange of said fastener part, and support-engaging fingers integral with said base portion and disposed radially of said barrel of the fastener part, said fingers having their outer ends disposed adjacent said barrel and intermediate portions radially spaced from said barrel providing snap fastener means for engaging the walls of an aperture in a support.

2,644,503
**TRACTION MEANS FOR PNEUMATIC TIRED WHEELS**
Wallace H. Paske, Wells, Minn., assignor to Clark H. Geppert, Des Moines, Iowa
Application February 3, 1950, Serial No. 142,296
3 Claims. (Cl. 152—233)



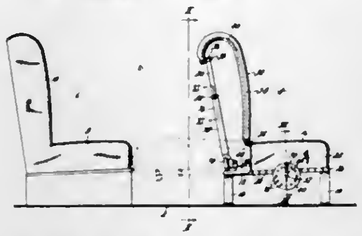
1. In combination, a vehicle rim having a pneumatic casing, a hook member secured to one side of said rim, a second hook member secured to the other side of said rim substantially transversely opposite said first hook, an elongated flexible member capable of increasing traction on said casing when arranged transversely around it, an apertured connecting plate secured to each end of said elongated member, means for increasing and decreasing selectively the effective length of said elongated member, and a shoulder portion on each of said connecting plates, each of said connecting plates embracing one of said hook members with said shoulder portions resting on a portion of said vehicle rim; said hooks being held on said wheel rim entirely by the frictional engagement of said wheel rim and said pneumatic casing with said hooks.

**2,644,504**
**BICYCLE SEAT HEIGHT ADJUSTING MEANS**
**Millard Vick, Portsmouth, Va.**
**Application May 23, 1950, Serial No. 163,657**
**2 Claims. (Cl. 155—5.24)**



2. In a support for a vehicle seat, a tubular post having a closed lower end and an open upper end, a housing mounted on the upper end of the post and extending crosswise of said post and extending beyond opposite sides of the post, said housing being formed with a chamber extending lengthwise within the housing and opening through one end of the housing, a latch bolt slidably confined in said chamber for movement lengthwise of the housing, said latch bolt being formed with an opening at a point intermediate the ends of the latch bolt, a polygonal seat post slidably positioned through the open upper end of said tubular post and rising through the opening in the latch bolt, said seat post being formed with vertically spaced notches, said opening in the latch bolt having a width only slightly greater than the width of the seat post and providing opposed edges on the latch bolt slidably engaging sides of the seat post, and precluding rotation of the seat post relative to the housing, said latch bolt opening being elongated in the direction of the length of the latch bolt and being longer than the width of the seat post whereby said latch bolt can be moved endwise relative to the housing and to the seat post, said latch bolt opening providing a notch engaging edge on said latch bolt at one end of said opening, for engaging in selected notches of the seat post, spring means biasing the latch bolt in a direction to normally engage the notch engaging edge of the latch bolt with notches of the seat post, and releasing means connected to the latch bolt and extending from the housing for retracting the latch bolt against the resistance of said spring means, said seat post terminating at its lower end in a reduced pin defining a shoulder surrounding said pin on the lower end of the seat post, a helical expanding spring in said tubular post, said spring having a lower end and an upper end, the upper end of the spring abutting said shoulder and surrounding said pin, a shaft extending longitudinally in said helical spring, said shaft having a lower end formed with an enlarged head with which the lower end of the spring is abutted, said head being arranged to abut the closed lower end of the tubular post, said shaft having an upper end normally spaced from said pin and arranged to be engaged by said pin as said seat post is moved downwardly against the resistance of said helical spring to an extreme depressed position.

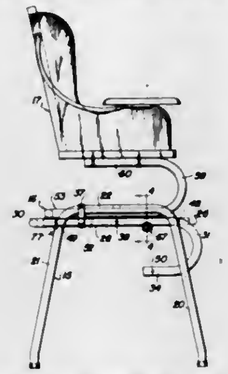
**2,644,505**
**AUTOMOBILE SEAT STRUCTURE**
**John M. Dorton, Bonner Springs, Kans.**
**Application October 18, 1950, Serial No. 190,719**
**19 Claims. (Cl. 155—7)**



12. An adjustable seat structure comprising a planar base, a resiliently compressible seat cushion mounted on said base, a pair of resilient back cushions each hinged at its lower edge to the upper rearward edge of said seat cushion, the upper edge portions of said back cushions being curved rearwardly and downwardly, a guide member mounted on said base adjacent each transverse edge of each of said seat cushions, a slide carried for forward and rearward movement by each of said guide members, a rack carried by each of said slides, a pair of shafts carried for rotation by said base transversely to the movement of said slides, each of said shafts transversing the two slides associated with one of said seat cushions, a pair of pinions fixed to each of said shafts and meshing respectively with the racks of the associated slides, means for releasably securing each of said shafts against rotation, a longitudinally extensible support rod hingeably secured at its lower end to the rearward end of each of said slides rearwardly from said seat cushion and adjustable from a substantially upright to a substantially horizontal position, means for releasably locking said support rods at any desired degree of extension, and a cross bar extending between and fixed to the free ends of the two support rods associated with each of said seat cushions, the upper edge of said back cushion being secured to said cross bar.

**2,644,506**
**CONVERTIBLE ARTICLE OF FURNITURE**
**Hyman Pollack, Kings County, and David Brand, Bronx County, N. Y.**
**Application April 25, 1950, Serial No. 157,894**
**11 Claims. (Cl. 155—39)**

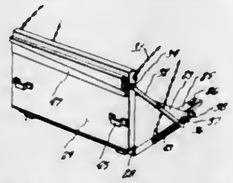
11. In a convertible article of furniture, an understructure and a superstructure removably supported thereby; the said understructure comprising leg members, two spaced rail members secured to said leg members and comprising parallel rails, front gripping loops with downwardly and rearwardly extending sections and a rear bar connecting said rails, a table pivotally mounted upon and between said rails and forwardly of said bar, said table being revolvable for horizontal and inclined positioning with both opposite sides adapted to be upwardly disposed, locking means releasably securing the table with front and rear portions of at least one of said rails and with at least one of said rearwardly extending sections, and guiding elements secured thereto and spaced above said rail members; the superstructure comprising a base portion and an upper supporting portion connected thereto, said base portion being slidably disposed upon said rail members and in underlying slidable engagement with said guiding elements, whereby the said superstructure is supported by and in slidable inter-engagement with the said understructure, said upper supporting portion



having at the front thereof two upper hand gripping loops extending downwardly and rearwardly, the rearwardly extending portion forming lateral bars whereby an article of furniture may be secured thereon.

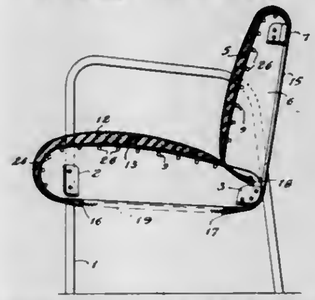


**2,644,507**
**COMBINED SAFETY SEAT FOR WINDOWS AND TABLE STRUCTURE**
**Ernest M. Gutman and Marie E. Gutman, New York, N. Y.**
**Application September 18, 1948, Serial No. 49,914**
**1 Claim. (Cl. 155—43)**



A combined window seat and table structure which comprises two parts hinged together, slide latches operable upon the parts to be extended from one of the parts to an attaching position for connection with a window sill and in another position to connect together the parts to retain them against pivotal displacement relative to one another, legs extendable from the parts to support the parts when connected together against angular displacement relative to one another in an elevated and table fashion, and means connected between the parts and operable upon the slide latches to effect their operation as the parts are pivoted relative to one another, said means for effecting the operation of the slide latches comprising brace elements pivotally connected together, one of said brace elements pivoted to one part, the other of said brace elements having an arm, a link connected between the arm and the slide latch, a screw pin extending through said one brace element, a slide receiving the screw pin, one of said parts having a guide slot, a plate extending over the guide slot to hold the slide in place against outward displacement therefrom but permitting the longitudinal movement of the slide in the slot, said screw pin being adjustable through the slide to cause the tight frictional engagement of the slide with the plate whereby to retain the slide and the end of the other brace element in one end of the slot and against displacement therefrom.

**2,644,508**
**RESILIENT SEATING SURFACE FOR CHAIRS**
**Bruno R. Weill, Statesville, N. C.**
**Application June 11, 1951, Serial No. 230,909**
**In France July 10, 1950**
**5 Claims. (Cl. 155—179)**



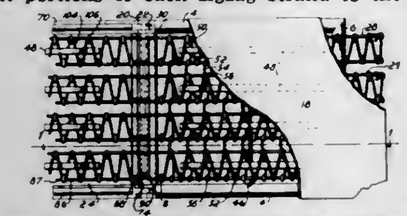
1. A chair comprising a sub-structure and a super-structure, said sub-structure including a side plate disposed at each side of the seat, and resilient members connecting said side plates, said resilient members forming a base for the seat of the chair, an additional side plate disposed at each side of the back and additional resilient members connecting said additional side plates to form the base for the back of the chair, said first mentioned side plates forming about a right angle to said second mentioned side plates, and said super-structure comprising a longitudinal sheet of material removably disposed over the said substructure, a first portion of said sheet material covering the seat of said chair, a second portion of said sheet material covering the front face of the back of the chair, means for retaining the adjacent parts of the said first and second portions between the seat and the back of the chair, and a third portion of said sheet material covering the back face of the back of said chair, and resilient members disposed in longitudinal direction below the seat of the chair and connecting the oppositely disposed ends of the said sheet of material.

5. In a chair, including a seat, a sub-structure comprising a side plate disposed at each side of the chair, front and rear cross members connecting the said side plates, resilient members disposed crosswise between the said side plates along the upper and front ends of the latter and connecting the same to form a resilient base for the top and the front of the seat, the said front cross member being disposed spaced apart from the front end and spaced apart and behind the said resilient members at the front end of the said chair, so that the said seat has at its top face as well as at its front end resilient support.

**2,644,509**
**FLOATING MOTION CUSHION FOR VEHICLES AND FURNITURE**
**John M. Dorton, Bonner Springs, Kans.**
**Application March 13, 1945, Serial No. 582,511**
**4 Claims. (Cl. 155—181)**

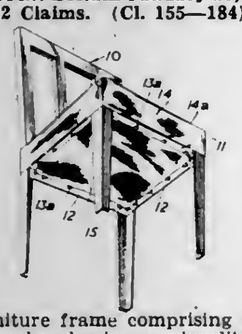
4. In combination, a seat structure comprising a frame, a superstructure carried by said frame and comprising a plurality of parallel strands arranged in pairs extending longitudinally of the

frame, a zigzag strand interposed between the strands of each of said pairs of parallel strands and having laterally bent portions adjacent said parallel strands, and clips securing the laterally bent portions of each zigzag strand to the associated pair of parallel strands, the portions of said zigzag strands extending between the strands of said pairs of parallel strands being straight, whereby to prevent spreading of the strands of said pairs of parallel strands.



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**2,644,510**
**UPHOLSTERY SUPPORTING MEANS AND METHOD OF USING THE SAME**
**Sydney Benmax, Chiswick, London, England**
**Application January 24, 1948, Serial No. 4,128**
**In Great Britain January 28, 1947**
**2 Claims. (Cl. 155—184)**

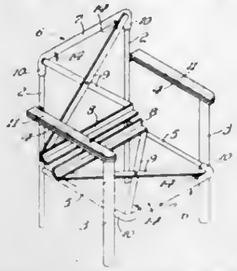


2. A furniture frame comprising a metal upholstery member having a plurality of projections formed integrally therewith, each of said projections being disposed slightly out of the plane of said member and being bent acutely back intermediate the tip and the base thereof to provide oppositely inclined portions between said tip and the bend and between said base and the bend so that two pieces of covering material may be applied to said projections and tensioned in opposite directions so that the tension in one of the pieces tends to draw the latter onto the bases of said projections while the tension in the other of the pieces tends to draw that other piece toward the bends of said projections.

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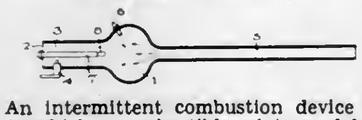
**2,644,511**
**SECTIONAL ARTICLE OF FURNITURE**
**Henri Saint-Maurice, Paris, France, assignor to Etablissements H. Saint-Maurice & Cie, Societe a Responsabilite Limitee, Paris, France**
**Application May 6, 1948, Serial No. 25,338**
**In France June 27, 1947**
**9 Claims. (Cl. 155—194)**

9. In a sectional article of furniture, two identical sections of each of two types of sections, each section of one of said types comprising two vertical posts, each section of the other type comprising a tubular member, an angle iron, and two bracing members to connect the tubular member and angle iron, each tubular member having its end portions bent inwardly at right angles, each bent portion of each section of the latter type receiving in the assembled condition the upper end portion of a post of a section of the former type, the two sections of the latter type being vertically and parallel arranged, both sections of the former type being likewise vertically and parallel arranged, and an additional section horizontally supported by the horizontal legs of the angle irons of the two sections of the latter type.



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**2,644,512**
**BURNER DEVICE HAVING HEAT EXCHANGE AND GAS FLOW CONTROL MEANS FOR MAINTAINING PYROPHORIC IGNITION THEREIN**
**Walter Dürr, Ludwig Huber, and Franz Haag, Uberlingen, Germany, assignors to Heizmotoren-Gesellschaft Uberlingen am Bodensee, Germany, a German corporation**
**Application June 7, 1950, Serial No. 166,611**
**In Germany June 13, 1949**
**20 Claims. (Cl. 158—4)**



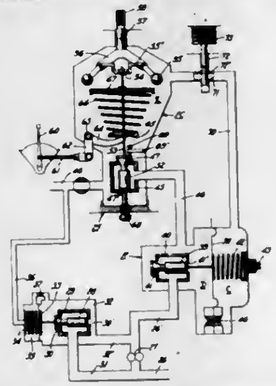
1. An intermittent combustion device of the type in which a combustible mixture of fuel and air is periodically detonated at acoustic frequency comprising a combustion chamber, an open exhaust tube directly connected to said combustion chamber and forming therewith an acoustic resonator, an air inlet check valve, a tubular inlet duct connecting said combustion chamber to said check valve, a fuel feed nozzle opening into said inlet duct, and an elongated heat conductive member disposed longitudinally within and spaced from the walls of said inlet duct and having an inner end which projects into said combustion chamber to a point where it is heated by combustion in said chamber to a temperature of from 600 to 1000° C., whereby the combustible mixture of fuel and air passing through said inlet duct to said combustion chamber is preheated by heat transferred thereto from combustion in said combustion chamber by said heat conductive member.

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**2,644,513**
**GAS TURBINE FUEL FEED AND POWER CONTROL DEVICE RESPONSIVE TO SPEED AND AIR DENSITY**
**Frank C. Mock, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application October 6, 1945, Serial No. 620,755**
**22 Claims. (Cl. 158—36.4)**

1. For use in a fuel-feeding system for power plants utilizing a burner or generator to which air is supplied under pressure, a fuel conduit for conducting fuel to the burner having a variable metering restriction therein, means for creating a flow of fuel under pressure through said conduit, an element for varying the area of said restriction to control feed of fuel to the burner, means for selectively controlling said element, a regulating valve controlling flow of fuel to said restriction, pressure-responsive means operatively connected to said valve and arranged to respond to the drop across said restriction, means tending to maintain a substantially constant differential across said pressure-responsive means, an increase or decrease in the drop across the metering restriction momentarily unbalancing the differential and causing the constant differential producing means to move the fuel valve to a position to re-establish the drop across the metering restriction, and means responsive to changes in pressure of the air flowing to the burner for modifying the differential across said pressure-responsive means.



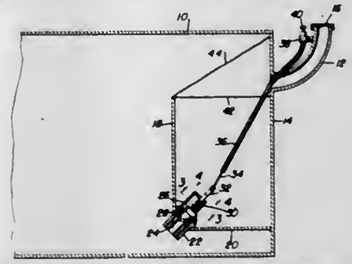


19. In a fuel control device for an engine, a fuel inlet passage, a fuel outlet passage, a pair of conduits in parallel interconnecting said passages, a metering valve in one of said conduits, manual means for regulating said valve to select an operating speed or power output for the engine, a fixed restriction and a variable restriction in the other of said conduits, valve means responsive to variations in pressure of the air flowing to the engine for varying the effective area of said variable restriction, a metering head regulating valve in one of said passages, and means responsive to the drop in pressure across one of said restrictions for controlling said regulating valve.

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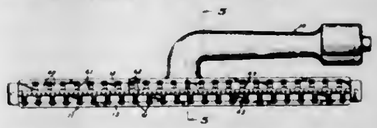
**2,644,514**
**AUXILIARY FUEL SUPPLY TANK**
**George H. Potter, Pontiac, Ill., assignor of forty-nine per cent to Roy D. Wrightam, Pontiac, Ill.**
**Application May 5, 1950, Serial No. 160,171**
**1 Claim. (Cl. 158—46.5)**

In a fuel tank of the type including a vertical wall, a laterally and upwardly curved filler neck projecting from said wall and a reserve tank comprising a discharge valve in said fuel tank, a flexible tubular housing having one end portion secured exteriorly on the inner longitudinal curve of the filler neck adjacent the intake end thereof, said housing entering the filler neck through the uppermost portion of the circumferential periphery thereof closely adjacent the fuel tank and traversing same substantially diametrically, said housing being of such diameter relative to that of the filler neck as to obstruct said filler neck against the passage of siphoning tubes of substantial size into the fuel tank, said housing emerging from the discharge end of the filler neck and extending into the reserve tank, and a flexible cable operable in the housing and connected to the valve for actuating same.



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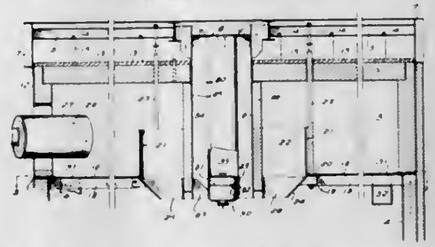
**2,644,515**
**GAS BURNER HEAD WITH SECONDARY AIR FEED GROOVES**
**Albert J. Lampert, Walnut, and Eldon A. Merritt, South Gate, Calif., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California**
**Application December 22, 1947, Serial No. 793,092**
**5 Claims. (Cl. 158—114)**



4. A gas burner comprising an elongate housing having a transversely arched and arcuate top, a pair of generally horizontal ledges bordering said top, generally vertical sides, a plurality of substantially radial ports in said top spaced along a central longitudinal line and along transverse lines on each side of said central line, adjacent transverse lines being staggered on opposite sides of said central line, the extent of such staggering being at least equal to the span of an aperture, and a plurality of grooves having chordal bottoms disposed between said transverse lines so as to situate said transverse lines on ridges raised from the top proper.

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**2,644,516**
**APPARATUS FOR SPRAY DRYING**
**Armin G. Brendel, Suffern, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application July 21, 1949, Serial No. 105,943**
**4 Claims. (Cl. 159—4)**



4. A spray drier comprising in combination a drying chamber, a furnace superimposed thereon,

gas burners positioned about the lower periphery of said furnace and adapted to discharge flaming hot gases thereinto, a heat-radiating metal partition constituting a ceiling for said drying chamber and a floor for said furnace positioned adjacent the path of said flaming gases and adapted to absorb a substantial proportion of the heat thereof and transmit it to said drying chamber as radiant heat with a corresponding reduction in the temperature of said gases, a central aperture in said metal partition for admitting the furnace gases so cooled into said drying chamber, and a spray machine positioned in said aperture but protected from direct contact with said gases by a surrounding well structure.

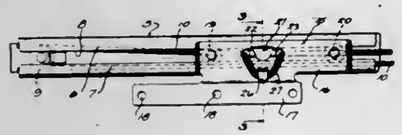
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**2,644,517**

## CARRIAGE ANCHORAGE FOR TRAVERSE CORDS IN DRAPERY FIXTURES

**John N. Graber, Madison, Wis., assignor to The Graber Company, Middleton, Wis., a partnership**

**Application March 8, 1951, Serial No. 214,587**
**6 Claims. (Cl. 160—346)**



1. A drapery traverse carriage comprising an apertured plate having beneath the aperture a downwardly directed tongue and having upwardly directed tongues subdividing the aperture into pockets to receive laterally spaced portions of a traverse cord to be hooked about the tongue first mentioned, said aperture being open between said pockets whereby to freely admit the bight of said cord through the opening for engagement with said tongue.

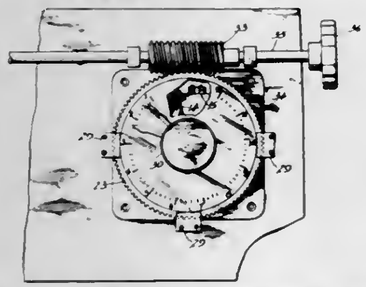
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**2,644,518**

## GROUP CONTROLLED ELECTRIC TIMER

**Joseph Hertrich, Hamilton, Ohio, assignor to The Western States Machine Company, Hamilton, Ohio, a corporation of Utah**

**Application April 1, 1952, Serial No. 279,729**
**14 Claims. (Cl. 161—1)**



1. In an electric timer adapted for common adjustment with a plurality of similar timers and having timer means, a timing arm forming part of the timer means, and a dial over which said timing arm is rotated during a timing operation and over which an adjusting arm is turned to a desired setting thereon to limit the period of rotation of the timing arm; a control for the adjusting arm comprising a shaft on which the adjusting arm is secured, a transparent disc overlying the dial, the timing arm and the adjusting arm so that the latter three elements can be observed through said disc, said disc being drivingly connected to said shaft whereby the adjusting arm can be turned to a desired setting by rotation of said disc, and means for rotating said disc, said latter means being adapted to rotate a plurality of like discs, one in each of the similar timers for simultaneous adjustment of all the timers.

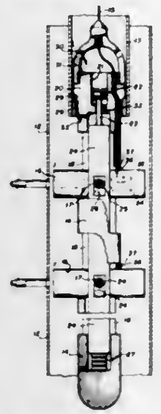
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**2,644,519**

## GUN FOR PERFORATING CASING

**William E. Kanady, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware**

**Application September 11, 1950, Serial No. 184,169**
**7 Claims. (Cl. 164—0 5)**



1. A device for perforating casing in an oil well below tubing suspended within said casing comprising an elongated carriage, a plurality of gun barrels having trunnions for mounting them individually for rotation in said carriage, said trunnions having pinions thereon, a yoke extending longitudinally of the carriage and having racks in mesh with said pinions and hydrostatic pressure operated means for actuating said yoke to rotate the barrels simultaneously from their vertical positions longitudinal of the carriage into positions transverse thereof, whereby, after the barrels have passed beneath the lower end of the tubing, they may be brought into horizontal position and fired.

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**2,644,520**

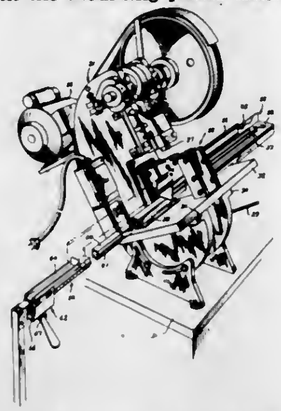
## LENGTH CUTTING MACHINE

**Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York**

**Application December 9, 1949, Serial No. 132,139**
**2 Claims. (Cl. 164—40)**

1. Shearing dies for cutting sheet metal channels of generally rectangular cross section, said dies comprising: two relatively movable dies, each having a channel-shaped slot therethrough corresponding in shape with the cross section of the channel to be cut, each of said dies comprising a plurality of interfitting parts forming a cutting face, the parts of each cutting face being individually secured to one side of a flat mounting plate which is slotted similarly to and correspondingly with the slot in the cutting face, one die being mounted for sliding movement on the other die in a direction at an angle to each of the sides of said channel-shaped slot, the opposite walls of the slots through both cutting faces and both mounting plates being parallel throughout the major portions thereof which are nearest to the shearing plane, the width of the slots being greater in the mounting plates than in the cutting faces, the slot through the cutting face on that die into which the sheet metal channel is first entered being narrower than the slot through the cutting face of the other die, and the slot through the cutting face of that die into which the sheet metal channel is first entered having a tapered mouth which decreases from a size at least as large as the parallel wall portion of the slot through the mounting plate to the size of the parallel wall portion of such slot through the cutting face.





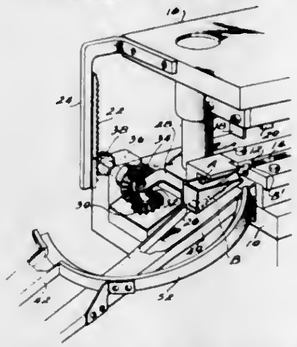
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**2,644,521**

## MATERIAL HANDLING DEVICE FOR PUNCH PRESSES

**Bert E. Lawson, Lakewood, and Ward E. Bullock, Chautauqua, N. Y., assignors to Sylvania Electric Products Inc., a corporation of Massachusetts**

**Application June 15, 1948, Serial No. 33,084**
**3 Claims. (Cl. 164—48)**



1. In combination, a press having a bed, a guide within said bed, a reciprocating head for simultaneously punching out a number of pieces from a strip of material, certain of said pieces having an orientation reversed with respect to the others, said head having an actuator coacting with said bed, a first downwardly inclined chute having its upper end adjacent to said bed and below said guide for receiving certain of said punched out pieces, a moveable pan having an exit inclined upwards for receiving the others of said pieces, above said first chute and below said guide, a second downwardly inclined chute spaced from said first chute, and gearing meshed with said actuator for cyclically moving said pan to said second chute and inclining said pan exit downward said chute having means for maintaining the orientation of pieces carried thereby.



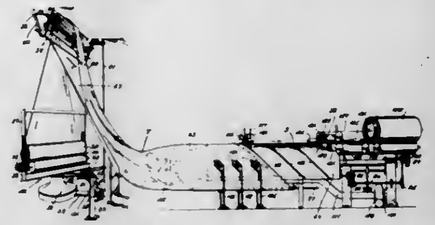
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**2,644,522**

## BIAS CUTTING MACHINE

**Samuel P. Parker and Roscoe Lee Thompson, La Grange, Ga., assignors to Callaway Mills Company, La Grange, Ga., a corporation of Georgia**

**Application August 15, 1950, Serial No. 179,598**
**9 Claims. (Cl. 164—65)**



1. In a machine for cutting a tubular fabric on the bias to form a strip and having a mandrel, over which the fabric is to be led in telescoped relation to the mandrel, and a knife cutting in a plane at an angle to the axis of the mandrel, the combination of a support for holding a roll of the fabric with its axis horizontal, the support being rotatable on a vertical axis and including a rotary element engaging the roll and rotatable to rotate the roll to unwind it, a rotary guide for the fabric tube unwound from the roll, the guide being mounted for rotation on a stationary axis at a higher level than the supported roll, pairs of rollers adapted to move the fabric tube over the mandrel along a helical path, one roller of each pair being mounted within the mandrel to engage the inner surface of the tube and the other roller of the pair being mounted outside the mandrel to engage the outer surface of the tube and press the tube against the inner roller, means for drawing the strip from the mandrel, means for rotating the support and the rotary element in timed relation to each other, means for driving at least one roller of each pair and the strip drawing means at the same surface speed, said speed bearing a constant relation to the rate at which the fabric is unwound from the fabric roll by the rotary element, means for directing an air blast into the tube, as it approaches the mandrel, to inflate the tube, and means for rotating the guide at a surface speed higher than the speed of the tube being unwound from the roll.

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**2,644,523**

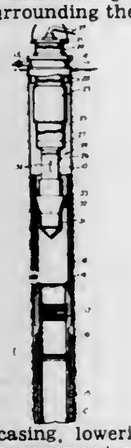
## METHOD AND APPARATUS FOR CONNECTING WELL CASINGS TO LINERS

**Cicero C. Brown, Houston, Tex.**

**Application March 12, 1949, Serial No. 81,054**
**4 Claims. (Cl. 166—1)**

1. The method of connecting a well casing to a liner previously installed in a well bore, com-

prising, lowering a casing into the well bore into axial alignment with said liner and axially spaced from the upper end thereof, sealing the upper end of the bore of said liner against the entrance of fluids, introducing cement slurry into the well bore surrounding the adjacent ends



of said liner and casing, lowering said casing into end-abutting engagement with said liner, allowing said cement slurry to harden to form a continuous cement sheath about the engaged ends of said liner and casing, and removing said seal to provide a continuous bore connecting said liner and casing.

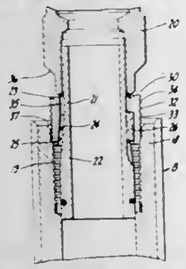
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**2,644,524**

**TUBING AND WELL TOOL COUPLING**

**Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Application November 4, 1946, Serial No. 707,664**
**20 Claims. (Cl. 166—1)**



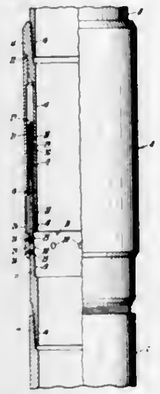
1. An apparatus of the character described, including a well tool having a thread, a member adapted to be connected to said tool, an expansible and retractable latch ring carried by and movable laterally on said member and also longitudinally relative to said member, said ring having a thread companion to said well tool thread and engageable therewith, said ring being adapted to move laterally in one direction on said member into threaded engagement with said well tool thread and laterally in the other direction on said member to an extent sufficient to bring said threads out of engagement with each other to enable said ring to be moved longitudinally and without rotation past said well tool thread, said member being provided with actuating means engageable with said ring and movable longitudinally with said member relative to said ring for moving said ring laterally of said member in one of said directions.

**2,644,525**

**WELL CEMENTING APPARATUS**

**Francis Hampton Lee, San Pedro, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Application February 24, 1947, Serial No. 730,342**
**11 Claims. (Cl. 166—1)**



1. Apparatus of the character described, including upper and lower tubular members threadedly attached to one another and adapted to form part of a casing string, one of said members having a port, and means on said other member initially closing said port and movable downwardly upon downward threading of said upper member along said lower member in response to rotation of the portion of said casing string above said upper member to open said port, said means including instrumentalities movable downwardly by rotation and downward movement of the portion of said casing string above said upper member to reclose said port after said means has moved downwardly to open said port.

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**2,644,526**

**CASING COLLAR FOR CEMENTING WELLS**

**Francis Hampton Lee, San Pedro, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Application April 4, 1947, Serial No. 739,272**
**16 Claims. (Cl. 166—1)**



1. Apparatus of the character described, including a first tubular member, a second tubular member, said tubular members being adapted to form part of a casing string positionable in a well bore, means providing a connection between said members so that relative rotation therebetween effects their longitudinal movement with respect to each other, said first member having a side port, a sleeve valve within said first member disposable over said port to close the same, said first member having an external valve seat thereon, a second sleeve valve on said second tubular member disposed initially in open position with respect to said port, and means operatively connecting said second sleeve valve and second tubular member to effect engagement of said second sleeve valve with said valve seat in response to relative rotation between said first and second members to prevent flow of fluid between the interior and exterior of said members.



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**2,644,527**

**DEVICE FOR CONTROLLING WELL FLOW**

**Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Continuation of application Serial No. 543,853, July 7, 1944. This application February 23, 1950, Serial No. 147,631**
**15 Claims. (Cl. 166—2)**



1. A well flow control device including a body adapted to be disposed within a flow line and having a passage through which well fluid may flow, means for preventing fluid flow longitudinally along the exterior of said body between said body and the flow line surrounding said body, a valve movable by said well fluid toward a position closing said passage, means having a fluid pressure actuatable surface responsive to the action of said well fluid under pressure on the outlet side of said valve for urging said valve to open position to permit flow of fluid through said passage, means having a fluid pressure actuatable surface of less area than said first-mentioned surface and responsive to the action of said well fluid under pressure for urging said valve toward closed position, and means supplementing the force of the fluid pressure on said surface of less area for urging said valve toward closed position.

**2,644,528**

**BOOSTER DEVICE FOR OPERATING WELL TOOLS**

**Thomas M. Ragan, Downey, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Application July 14, 1947, Serial No. 760,851**
**16 Claims. (Cl. 166—11)**



1. In a subsurface well tool: relatively movable parts cooperable with each other to perform a function in a well bore while disposed in the well bore; means for effecting relative movement between said parts comprising a fluid motor mechanism which includes a first hollow cylinder member and a first piston member relatively reciprocable in said first cylinder member, one of said first members being engageable with one of said parts to operate said one of said parts; said means further comprising a fluid pump mechanism which includes a second hollow cylinder member communicable with said first cylinder member and a second piston member relatively reciprocable in said second cylinder member, the cross-sectional pressure actuatable area of said second cylinder member being substantially less than the cross-sectional pressure actuatable area of said first cylinder member; a fluid in both of said cylinder members; and means in the well bore connected to a member of one of said mechanisms for bodily moving said member of said one of said mechanisms with respect to a member of the other of said mechanisms to generate a pressure in said fluid.

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**2,644,529**

**CUSHIONED GAS-OPERATED WELL APPARATUS**

**Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Application September 20, 1948, Serial No. 50,193**
**6 Claims. (Cl. 166—13)**

1. In well apparatus: a well device adapted to be operated in a well bore; fluid actuated means operatively connected to said well device, comprising a closed cylinder and piston means slidable in said cylinder; means sealing a cross-sectional area of said cylinder to provide a completely enclosed space in said cylinder on the low pressure side of said piston means and to prevent the well fluid externally of said cylinder from entering said enclosed space during lowering of the apparatus in the well bore; and cushioning means in said enclosed space disposed

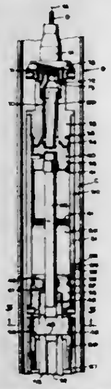
initially in spaced relation to said piston means and engaged by said piston means, after at least



partial actuation of said well device by said fluid actuated means, to retard the continuing relative movement of said piston means in said cylinder.

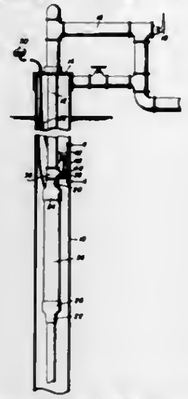
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**2,644,530**
**GAS-OPERATED WELL APPARATUS WITH EXPANSION RETARDING DEVICE**
**Reuben C. Baker, Coalinga, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**
**Application September 20, 1948, Serial No. 50,194**
**10 Claims. (Cl. 166—13)**



1. In well apparatus: a well device adapted to be operated in a well bore; fluid actuated prime moving means operatively connected to said well device and adapted to be lowered in the well bore with said device to operate the same therewithin, comprising a cylinder and piston means slidable in said cylinder; means sealing a cross-sectional area of said cylinder to provide a completely enclosed space in said cylinder on the low pressure side of said piston means and to prevent the well fluid externally of said cylinder from entering said enclosed space during lowering of the apparatus in the well bore; means providing a motivating force in said cylinder on the high pressure side of said piston means to slide said piston means relatively in said cylinder; and a fluid medium in said enclosed space on the low pressure side of said piston means engageable by said piston means for arresting relative movement of said piston means in said cylinder, said fluid medium comprising a liquid.

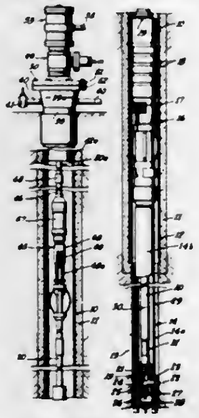
**2,644,531**
**FLOWING UNIT FOR OIL WELL CONTROLLERS**
**Paul L. McLean, Levelland, Tex., assignor of fifteen per cent to M. L. Morgan, Hockley County, Tex.**
**Application June 22, 1950, Serial No. 169,595**
**6 Claims. (Cl. 166—17)**



1. A flowing unit for oil well controllers comprising a vertically disposed supply pipe having an upper end portion exposed from a drill hole, an insulated sleeve about the pipe intermediate the ends of the pipe, an electrical heating unit within the sleeve and surrounding the pipe, a thermostatic control operatively connected to the heating unit to prevent overheating of the pipe, a valve in the pipe immediately above the sleeve, a reversible electric motor supported on the pipe above the valve and operatively connected to the valve for selectively opening and closing the valve, and a switch disposed remotely from the motor and electrically connected to the motor.

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**2,644,532**
**APPARATUS AND METHOD FOR CONDITIONING OIL AND GAS WELLS**
**Bernardus E. Mater, Santa Monica, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**
**Application December 9, 1947, Serial No. 790,574**
**14 Claims. (Cl. 166—20)**



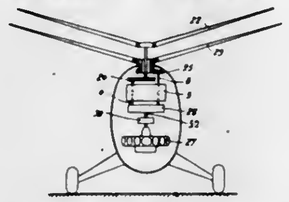
1. The method of conditioning a well bore: which includes connecting the lower portion of a liner to a tubular string and lowering said liner on said tubular string through casing in said well bore; hanging said liner from said casing without packing off the space between said liner and casing; while said liner is hanging from said casing pumping washing fluid down said tubular string and around said liner; then packing the space between said liner and casing string while said liner is hanging from said casing string; then disconnecting said tubular string from said liner; pumping washing fluid down said tubular string for upward flow within said liner; then hanging said tubular string in said casing; disconnecting the upper portion of said tubular string above its hanging location in said casing; and withdrawing said upper portion from said casing.

7. In apparatus for conditioning wells: a liner hanger secured to said liner and having slips and packing means for engagement with a well casing; a tubular string having a retrievable tubing hanger incorporated therein above said liner hanger and a setting tool connected to said liner hanger; said retrievable tubing hanger including expansible and retractable slip means and expansible and retractable packing means movable laterally into and out of engagement with the well casing; and a valve in said tubular string above said hanger.



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**2,644,533**
**MEANS FOR STEERING AIRCRAFT WITH ROTARY WINGS**
**Francis Maillard, Issy-les-Moulineaux, André Laville, Fontenay-aux-Roses, and Jean Cantineau, Paris, France, assignors to Societe Nationale de Constructions Aeronautiques des Sud-Ouest (Societe Anonyme), Paris, France, a company of France**
**Application March 30, 1948, Serial No. 17,876**
**In France April 17, 1947**
**6 Claims. (Cl. 170—135.27)**

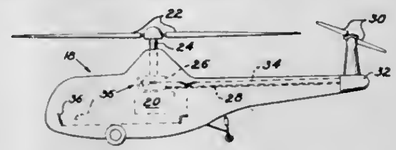


6. In a rotary wing aircraft having a fuselage and two coaxial sustaining blade-carrying rotors arranged outside said fuselage for rotation relatively thereto, the combination of power generating means for driving said rotors in opposite directions with velocities independent from one another, two rotary shafts carried by said fuselage and respectively driven by said rotors, and variable ratio connecting means between said shafts for adjusting the relative velocities of said rotors, whereby energy is transferred at will from any one rotor to the other through the connecting means.

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**2,644,534**
**AUTOMATIC TORQUE COMPENSATOR**
**Harry T. Jensen, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application October 5, 1946, Serial No. 701,605**
**4 Claims. (Cl. 170—135.22)**

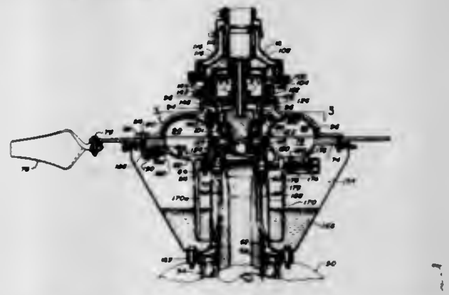
1. In a rotary wing aircraft, a main sustaining rotor, an auxiliary anti-torque rotor, an engine, fixed ratio drive means for driving each of said rotors at predetermined relative speeds, said auxiliary rotor having means for varying its thrust to compensate for variations in the torque of said main rotor, means for measuring main rotor torque including a movable member, spring means for normally balancing the torque exerted by said main rotor on said movable



member, means operatively connecting said member with said thrust varying means including rigid linkage elements, and pilot operated means having an operative connection with said linkage elements for adjusting said thrust varying means of said auxiliary rotor independently of the position of said movable member.

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**2,644,535**
**FLUID COUPLING CLUTCH**
**Alfred L. Koup, Stratford, and Arthur A. Wagner, Fairfield, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application June 29, 1949, Serial No. 102,086**
**16 Claims. (Cl. 170—135.75)**



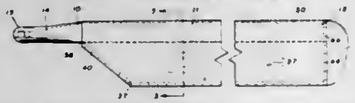
1. Power transmission mechanism for connecting the engine driven shaft and the rotor drive shaft of a direct lift aircraft comprising, a partial torque clutch connecting said shafts, said clutch having a torque transmitting capacity which is a small fraction only of the full torque which the engine can develop but which is sufficient to accelerate the rotor at low pitch to a speed at which sufficiently high centrifugal forces are developed in the rotor blades to prevent excessive deflection of the blades in their plane of rotation upon application of full engine torque, means responsive to engine R. P. M. for engaging said partial torque clutch, a second clutch connecting said shafts having a capacity to transmit the full torque which the engine can develop, and means for controlling the connection of said second clutch which is operative only after the rotor has been accelerated at partial engine torque by said first mentioned clutch to an R. P. M. at which safe centrifugal forces have developed in the rotor blades including a speed governor for effecting the connection of said second clutch and blocker mechanism responsive to the relative speeds of said drive shaft and said driven shaft for controlling the operation of said governor.

**2,644,536**
**AIR DISPLACEMENT ROTOR WITH BLADE STABILIZING WEIGHTS**
**Bartram Kelley, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.**
**Application December 24, 1948, Serial No. 67,234**
**9 Claims. (Cl. 170—159)**



1. An elongate flexible rotor blade for air displacement purposes, said blade having its major portion shaped to conform substantially to aerodynamic sectional profile, and an auxiliary mass additional to the structural requirements of said blade aerodynamic portion mounted integrally with said blade adjacent the tip end portion thereof and extending therebeyond in a direction normal to the plane containing the chord line and the spanwise axis of the blade, the projected area of said mass on the plane of said blade being confined within the chordwise extent of said blade.

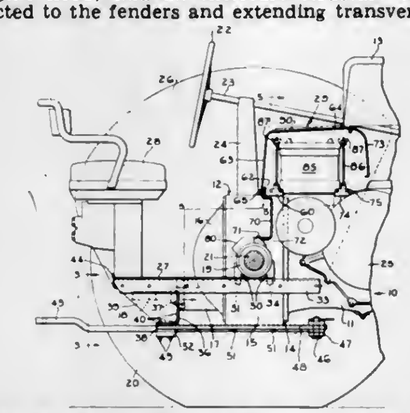
**2,644,537**
**SPAR TYPE ROTOR BLADE**
**Donald N. Meyers, Philadelphia, Pa., assignor, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa., a corporation of Pennsylvania**
**Application May 2, 1947, Serial No. 745,505**
**1 Claim. (Cl. 170—159)**



For an aircraft sustaining rotor, a blade including an airfoil section and a root and fitting section: the leading portion of the airfoil section and the root and fitting section comprising a unitary metal spar tube having a thick walled inner end, an intermediate portion rapidly expanding in cross-sectional dimensions and rapidly decreasing in wall thickness and merging with the portion of airfoil leading edge cross-section having a flat rear face, the walls of said last mentioned portion decreasing in thickness throughout the length thereof; a cellular core of dimensionally stable, non-absorbent, rigid synthetic material forming the whole remainder of the airfoil and bonded to the spar along said flat rear face, said core including at least three laminae adhesively joined in planes substantially parallel to the chord of the blade, at least one intermediate lamination being perforated transversely to said planes to reduce its weight; and a one piece sheet metal skin tightly enclosing the whole airfoil section; the three parts of the blade being secured together solely by adhesive to insure maximum surface smoothness.

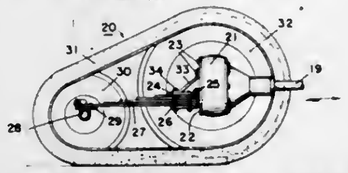
**2,644,538**
**OPERATOR'S STATION STRUCTURE FOR TRACTORS**
**Emil F. Jirsa, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa**
**Application August 13, 1948, Serial No. 44,162**
**8 Claims. (Cl. 180—1)**

7. For a tractor having a longitudinal body carried on a pair of laterally spaced apart traction elements and including an operator's station between the traction elements and provided with a seat ahead of which is an operator's standing area, and further including a narrow engine hood having a rear part including opposite sides spaced laterally inwardly respectively from the traction elements and an upper portion disposed at a level above the level of the standing area: a pair of laterally spaced, upright fenders extending longitudinally of the body respectively along opposite sides of the operator's station and inwardly of the traction elements and having forward portions substantially at the level of and respectively alongside the rear part of the engine hood; and an enclosure structure connected to the fenders and extending transverse-



ly across the body from one fender to the other behind the rear part of the engine hood and including a top portion below the level of the upper portion of the hood, a rear portion providing a cowl depending toward the standing area, means providing a support enclosed by said top and cowl portions, a pair of front portions respectively closing at least portions of the spaces between the engine hood and fenders, one of the enclosure structure portions having an opening therein for access to the interior of the enclosure means, and removable cover means for said opening.

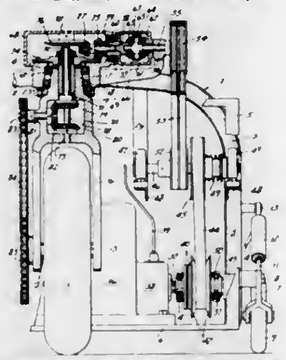
**2,644,539**
**SNOW TRACK FOR MOTOR VEHICLES**
**Antoine Gazda, Providence, R. I.**
**Application November 25, 1949, Serial No. 129,439**
**10 Claims. (Cl. 180—5)**



7. In a snow track for a motor vehicle having driving wheels and a driving system with a differential and housing therefor, the combination of an auxiliary axle, idler wheels rotatably mounted on said auxiliary axle, attaching means for said auxiliary axle comprising a plate secured to said housing, a plurality of cantilever springs, means for securing one end of each of said cantilever springs to said plate, means for rigidly attaching said auxiliary axle to the free ends of said springs and a plurality of endless belts, each of said belts being trained over one of said driving wheels and the corresponding idler wheel for revolving with said driving wheel to improve the traction of said vehicle.



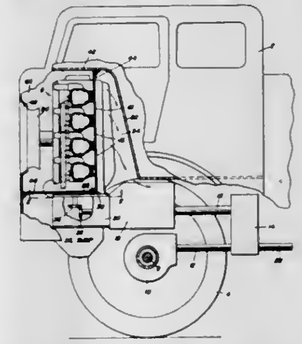
**2,644,540**
**DRIVE TRANSMISSION FOR STEERABLE TRACTOR WHEELS**
**Abram P. Balzer, Mountain Lake, Minn.**
**Application July 12, 1950, Serial No. 173,371**
**1 Claim. (Cl. 180—26)**



A vehicle having a single combined traction and steering wheel and comprising a frame, a generally vertically disposed steering fork mounting said wheel for driving rotation about a horizontal axis, said fork being journalled in the frame for rotary steering movements about a vertical axis, steering mechanism for rotating said fork about its axis, a single driving engine mounted on said frame, and power transmission mechanism associated with the engine for imparting rotation to the traction wheel, said transmission mechanism comprising an input shaft journalled in the frame and driven by said engine, a bevel gear mounted on said input shaft and rotatable about an axis at right angles to the axis of rotation of said input shaft, a pair of opposed bevel gears coaxial with said input shaft and having meshing engagement with said first-mentioned bevel gear, said pair of bevel gears terminating in drive shafts each having a drive gear on its outer end, a pair of concentric shafts rotatably mounted in the upper end of said fork and coaxial therewith, a pair of opposed gears one each on the upper end of each of said concentric shafts and each operatively associated with one of said drive gears, whereby the concentric shafts are rotated in opposite directions at like speeds, a pair of axially spaced opposed equalizer gears on the lower ends of the concentric shafts, a countershaft journalled for rotation in said fork about an axis in spaced parallel relationship to the axis of said traction wheel, a gear fast on the countershaft and having diametrically opposed portions in meshing engagement simultaneously with said opposed equalizer gears, and driving connections between the countershaft and the traction wheel at one side only of said fork, said driving connections including a pair of sprocket wheels one each secured to the countershaft and traction wheel and a link chain running over said sprocket wheels in driving engagement therewith.

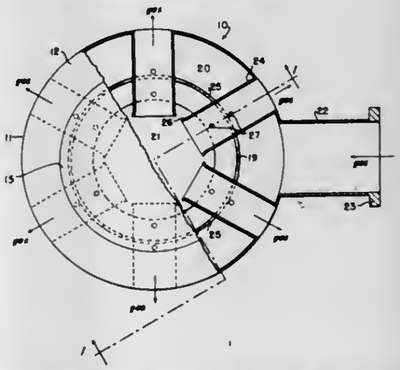
**2,644,541**
**PRESSURIZED CHAMBER FOR AIR-COOLED ENGINES**
**Carl F. Bachle, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia**
**Application July 10, 1947, Serial No. 759,985**
**3 Claims. (Cl. 180—54)**

1. In an automotive vehicle, an air-cooled internal combustion engine having a vertically extending crankshaft and a plurality of horizontally disposed engine cylinders extending in a plane normal to the longitudinal axis of the vehicle, an engine housing enclosing said engine and having a partition dividing it into a pressure chamber at the extreme forward end of the vehicle forwardly of said engine and an exhaust air chamber to the rear of said engine, said partition having apertures affording communication between said chambers, and said housing also having a forward wall provided with an inlet opening for admitting air to said pres-



sure chamber, a fan in said air inlet opening and connected to be driven by the engine to force cooling air into said pressure chamber, said exhaust air chamber having an outlet opening disposed at the bottom to discharge the air generally downwardly, said cooling air for said engine being circulated generally longitudinally of the vehicle by said fan through said pressure chamber and past said engine cylinders and thence through said partition apertures into and generally downwardly through the air exhaust chamber for exhausting through said outlet opening.

**2,644,542**
**SILENCER WITH PLURAL EXPANSION CHAMBERS AND OUTLET CONDUITS**
**Roland B. Bourne, West Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut**
**Application June 23, 1951, Serial No. 233,199**
**2 Claims. (Cl. 181—57)**

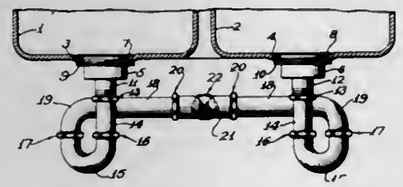


1. A silencer comprising a generally cylindrical casing closed at its ends, a cylindrical partition within the casing and coaxial therewith dividing it into an annular outer chamber and a substan-

tially cylindrical inner chamber, an inlet conduit opening into the annular outer chamber, and a plurality of outlet conduits opening through the cylindrical wall of the casing, passing through the partition in a direction at right angles to the common axis of the casing and partition, and having open ends within the inner chamber, the partition having a plurality of apertures communicating between the inner and outer chambers.

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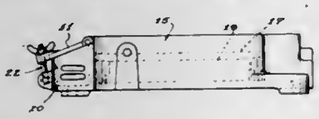
**2,644,543**
**WASTE FITTING**
**Robert E. Russell, Kenosha, Wis., assignor to Frost Company, Kenosha, Wis., a corporation of Wisconsin**
**Application August 12, 1949, Serial No. 109,857**
**2 Claims. (Cl. 182—18)**



1. A waste fitting for twin receptacles each having a drain opening facing substantially vertically upwardly, which comprises in combination a Y fitting having three openings facing in three different directions, at least two of said openings facing in a direction at substantially right angles to the direction faced by the drain openings, a drain assembly connected to each of said receptacles, a swivel joint connecting each drain assembly to an arm of said Y fitting, each drain assembly comprising a U-shaped trap, a tubular pipe connecting each of said joints to said U-shaped trap, and means comprising a coupling pipe connecting each of said U-shaped traps to one of said receptacles, and swivel joints connecting both ends of said U-shaped trap respectively to said tubular pipe and coupling pipe, a pipe connecting the third arm of the Y fitting to a main drain pipe, and a swivel connection joining said last mentioned pipe and the third arm of said Y fitting.

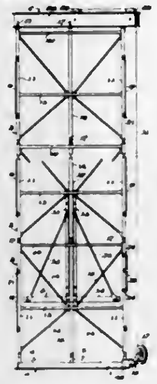
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**2,644,544**
**POT TYPE ENGINE OIL HEATER**
**Peter Altman, Detroit, and Laurence D. Bakke, Plymouth, Mich., assignors to Continental Motors Corporation, Detroit, Mich., a corporation of Virginia**
**Application November 3, 1951, Serial No. 254,732**
**3 Claims. (Cl. 184—104)**



1. In an internal combustion engine having a crankcase containing engine lubricating oil, a pot type heater for said crankcase comprising a box like extension carried by the crankcase and having a chamber, a crankcase wall separating the interior of the crankcase from said chamber, and absorbent wicking in said chamber and adapted to be saturated with liquid fuel and ignited to directly heat the crankcase and the lubricating oil contained therein.

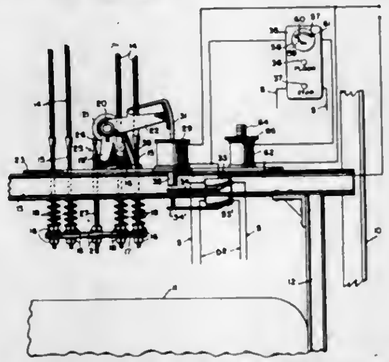
**2,644,545**
**ELEVATOR TOWER ASSEMBLED FROM PREFABRICATED PANELS**
**Thomas C. North, Zelienople, Pa., assignor to Universal Manufacturing Corp., Zelienople, Pa., a corporation of Pennsylvania**
**Application November 9, 1950, Serial No. 194,792**
**5 Claims. (Cl. 187—2)**



5. In an elevator tower, a base comprising a rigid rectangular frame, a horizontal angle bar outside of the frame and normally disposed diagonally of one frame corner, one flange of the angle bar projecting upward from the other flange along the side nearest the frame, a connecting member fastened to the central part of the bar and extending toward said frame corner, a vertical pivot pin extending through said member, means secured to said frame corner for supporting the pin, a bracket pivotally mounted on the pin above said connecting member, a vertical sheave above said bar, a support for the sheave, and a horizontal pivot pin connecting said sheave support to the bracket between the vertical pin and the bar.

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**2,644,546**
**SAFETY MECHANISM OR CONTROL FOR ELEVATORS**
**William Doolan, Washington, D. C.**
**Application January 27, 1949, Serial No. 73,075**
**12 Claims. (Cl. 187—29)**



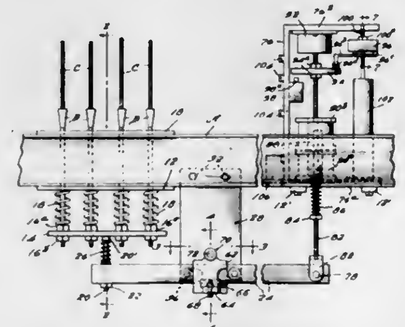
5. In an electrically operated elevator including a cage, a beam disposed transversely thereof and guide rails between which the cage is moved, a normally closed switch in the safety circuit of the elevator electrical system, the switch having



an actuating finger, a lever arm pivotally mounted at one end upon the beam adjacent to a car rail for rocking movement toward and away from the rail, a wheel carried by the lever arm and adapted to contact the rail, an actuator for said switch supported above said finger for movement toward and away from the latter, the actuator being adapted to move into contact with the finger to open the switch, a flexible connection between the wheel and the actuator whereby rotation of the wheel in one direction will lower the actuator toward the finger, relative movement of the elevator cage and the said one car rail under the imposition of load on the cage effecting the turning of the wheel in the said one direction, and means for effecting the oscillation of the lever to move the arm out of contact wtih the rail upon the energization of the electrical system to start the elevator.

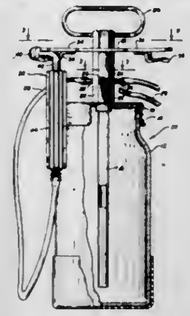
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**2,644,547**
**ELEVATOR OVERLOAD SAFETY DEVICE**
**William Doolan, Washington, D. C.**
**Application December 29, 1949, Serial No. 135,697**
**12 Claims. (Cl. 187—29)**



1. In an overload safety control system for electrically operated elevators, including a cage, cage suspension means, and the safety circuit thereof; an auxiliary cage gate actuated switch; a minimum weight switch in the power circuit of the system and in series with the auxiliary gate actuated switch, a control circuit for said safety circuit, an overload switch in said control circuit, a load indicator mounted within the cage and in circuit with said minimum weight and overload switches, an actuating means common to said minimum weight and overload switches, means interposed between the cage suspension means and said actuating means for progressively transmitting motion from said suspension means to the latter correspondingly for variations in the load within the cage, means cooperative with said actuating means and said indicator to cause the latter to progressively register any increase or decrease in the load, said actuating means normally holding said minimum weight switch open when the cage is empty and adapted to close the same at a predetermined light load and close said overload switch when an overload is indicated to be within the cage, and a relay adapted for operation upon the closing of said overload switch to open said safety circuit and to simultaneously establish a by-pass about said gate actuated switch, whereby cage operation is prevented regardless of the gate being opened or closed.

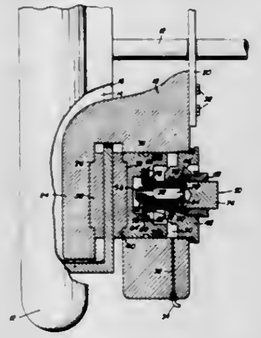
**2,644,548**
**FLUID BLEEDING APPARATUS**
**Fred J. Schlemann, Denver, Colo.**
**Application March 26, 1949, Serial No. 83,749**
**5 Claims. (Cl. 188—152)**



1. Bleeding apparatus comprising a container, a bleeding wrench having a transparent hollow handle and a socket communicating therewith, said socket being suitably shaped and adapted to engage the head of machine screw, and a conduit communicating with said hollow handle and said container.

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**2,644,549**
**BRAKE DISK WEAR COMPENSATING AND INDICATING MEANS**
**Toby T. Cagle, Long Beach, Calif., assignor to Airheart Products, Inc., Long Beach, Calif., a corporation of California**
**Application May 4, 1950, Serial No. 160,025**
**3 Claims. (Cl. 188—152)**

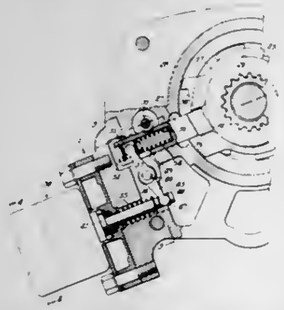


1. For use with a wheel assembly which includes a brake drum, a brake assembly comprising a cylinder block, a piston disposed in said cylinder block, a piston disposed in said cylinder block, means connected to said block for supporting said block adjacent the brake drum, a stationary brake element supported by said block adjacent said drum, a movable brake element carried by said piston and arranged to engage said drum, an indicating means, spring return means concentric with and carried by said indicating means, inner and outer shoulders formed on said piston, a retainer disk connected to said indicating means, a ring holding said disk in engagement with said inner shoulder of said piston, said locking ring engaging said outer shoulder, and a holding device engaging said indicating means arranged to oppose movement of the indicating means toward the brake element and to

prevent free return of said indicating means dependent upon the return force of the spring return means.

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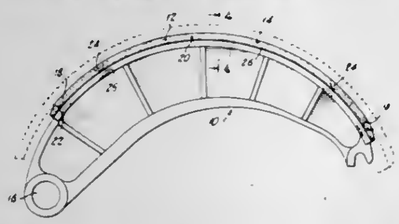
2,644,550
**OVERDRIVE TRANSMISSION**
**George E. Flinn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**
**Application December 3, 1948, Serial No. 63,413**
**8 Claims. (Cl. 188—163)**



1. An overdrive control mechanism comprising in combination a sun gear locking pawl, said pawl being longitudinally movable into engagement with the sun gear, a pull-type solenoid having an armature, a lever pivoted at a central point and having a connection at one end with said armature and having a connection at the other end with said pawl whereby actuation of the solenoid causing retracting movement of the armature will cause movement of said pawl into engagement with the sun gear, said connection of said lever and said pawl comprising a spring whereby said armature may be retracted without corresponding movement of said pawl, and a spring for returning said pawl, lever and armature back to their inoperative positions.

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2,644,551
**BRAKE SHOE AND METHOD OF ASSEMBLING SAME**
**James R. Glazebrook, New York, N. Y., and Alexander T. Wille, Waukegan, Ill., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
**Application July 2, 1946, Serial No. 680,986**
**8 Claims. (Cl. 188—234)**



1. A brake shoe for cooperation with a brake drum, a friction lining for said shoe covering substantially the entire arcuate length of the shoe and mounted thereon, headed fasteners located only adjacent the ends of the lining and countersunk therein securing said lining to said shoe adjacent the ends thereof, and adhesive means fixedly securing the portion of the lining to said shoe intermediate the ends of the lining.

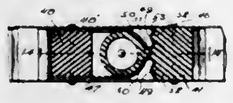
2,644,552
**METAL PLANK**
**Angus S. MacDonald, near Rapidan, Va., assignor to The Globe Wernicke Co., a corporation of Ohio**
**Application April 16, 1946, Serial No. 662,504**
**6 Claims. (Cl. 189—34)**



1. A metal side wall plank comprising spaced opposite side walls of separate elongated flexible metallic sheets, each of the sheets being turned longitudinally back upon itself in an elongated transversely yieldable spring loop and thence laterally of one edge of the plank, said elongated spring loop being formed in an external convex surface of revolution extending through more than a semi-circle and joined by an arcuate section to the laterally extending portion of the sheet, the opposite edge portion of each side wall having an indented groove therein of arcuate cross section with a lateral face diverging outwardly in the direction of the adjacent edge of the plank and turned inwardly through a convex arcuate section laterally of the adjacent edge of the plank, said indented grooves and last-mentioned arcuate sections being substantially complementary to the spring loops for spring engagement by spring loops of an adjacent like plank therewith upon relative swinging motion thereof for yieldably retaining the spring loops of said adjacent like plank thereon, and means connecting said laterally extending portions of said sheets and cooperating therewith forming the edge portion of the plank.

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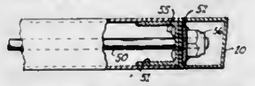
2,644,553
**PANEL FASTENING MEANS**
**Walton W. Cushman, Webb City, Mo.**
**Application June 5, 1947, Serial No. 752,792**
**2 Claims. (Cl. 189—36)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A panel joint comprising a pair of panels, each panel composed of spaced sheet metal plates and an interposed spacer element extending over the inner surfaces of the plates except for a marginal portion at the edges of the panel providing elongated recesses at said edges, a block of rubber disposed in one of the recesses of one panel and extending throughout the length thereof, an elongated inflatable element integral with said block and positioned inwardly of the sides thereof providing elongated ledges, said element extending beyond the panel edge, the marginal portions of the plates at the adjacent edge of the other panel being turned back inwardly upon themselves and providing a pair of shoulders forming a necked-in socket of substantially greater cross-sectional area and of greater depth than the width of the inflatable element, said element being located within the socket, whereby when the element is inflated it will draw the panels into abutting relationship with the outer faces of the shoulders in engagement with said ledges.



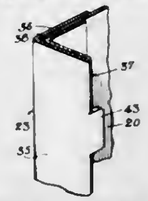
2,644,554
**DOOR**
**Robert Katz, Brooklyn, N. Y.**
**Application January 10, 1949, Serial No. 70,050**
**3 Claims. (Cl. 189—46)**



3. In a door frame construction having at least one tubular stile and a plurality of tubular rails, means for securing each rail to said stile in abutting engagement, the wall of said stile which abuts against the end of said rail having a hole just large enough for the passage of a tie rod therethrough, said securing means comprising a screw-threaded tie rod which extends from one end of the rail through said hole and terminates within said stile, means to secure said tie rod within the rail axially thereof, a nut on the extending end of said tie rod within said stile to bolt together said stile and a rail, a U-shaped clip fastened to the outer surface of a wall of said stile and extending into said rail and bearing against the inner walls of said rail, a large arcuate washer mounted on said tie rod between the nut and the inner wall of said stile, with its concave side confronting said latter inner wall whereby the force exerted by the nut is communicated to the sides of said inner wall remote from said hole in said stile.

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2,644,555
**DOORPOST CONSTRUCTION**
**Fritz A. Saaf, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois**
**Original application December 27, 1945, Serial No. 637,396. Divided and this application October 8, 1949, Serial No. 121,162**
**3 Claims. (Cl. 189—46)**

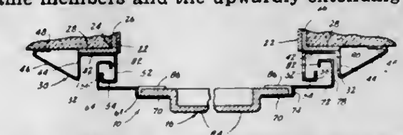


1. A door post for cooperation with a side panel and a door comprising a metal sheet folded back upon itself to form parallel inner and outer layers of metal which together comprise the front section of the door post, the fold in the sheet forming a smooth edge which defines a part of the door opening, and the free ends of the inner and outer layers being bent in the same direction at right angles to said front portion, but spaced apart the thickness of said side panel to form the side portion of the door post, said space between the metal layers forming the side portion of the post being adapted to receive said side panel and mask the included edge therein from view.

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2,644,556
**LIGHTING FIXTURE HINGE CONSTRUCTION**
**George W. Ledbetter, St. Louis, Mo., assignor to Joieco Corporation, St. Louis, Mo., a corporation of Missouri**
**Application April 15, 1949, Serial No. 87,603**
**2 Claims. (Cl. 189—66)**

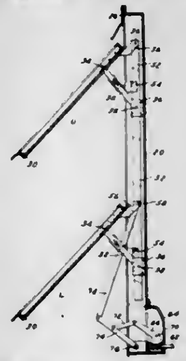
1. In a device of the type described, the combination of a supporting frame adapted to be connected to a fixed base and having a pair of spaced elongated members, each of said members facing each other and being of inverted U-shaped cross section with the transverse portion having first and second leg portions depending therefrom, said first leg portions being on the inside of said pair with the second leg portions on the outside, the free end of the first leg portion extending at its bottom transversely toward the second leg portion and thence upwardly, said last named upwardly extending portion extending normal to and less than half the distance toward said transverse portion; and a panel-like member having a pair of spaced elongated members facing each other, each of said members containing an upwardly extending hook-like portion, the free end of which extends first inwardly toward said first leg portion and thence downwardly; the distance between the second leg portion of each of the supporting frame members and the upwardly extending free



end of the first leg portion thereof being greater than the outer dimension of the inwardly extending portion of the hook-like portions of the panel members, but less than the outer dimension of the upwardly extending portion of said hook-like portions; the distance between the inner face of the upwardly extending portion of the hook-like portion of one elongated member and the inner face of the downwardly extending portion of the hook-like portion of the other elongated member being greater than the distance between the outer faces of the upwardly extending portions of the first leg portion of the supporting frame; and the distance between the inner faces of each of said second leg portions being greater than the distance between the upwardly extending portions of said hook-like portion whereby said second leg portion and the upwardly extending portion of said first leg act as a locking means to prevent the withdrawal of said panel-like member in any other than a prescribed manner.

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2,644,557
**WINDOW STRUCTURE**
**Elmer A. Westman, Fenton, Mich.**
**Application January 10, 1950, Serial No. 137,773**
**3 Claims. (Cl. 189—67)**

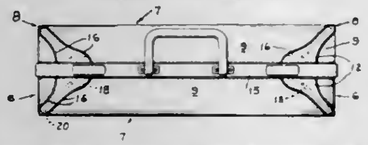


2. A window assembly comprising, in combination, a frame, a sash section swingably supported

within the frame, an operating mechanism including a rotatable shaft extending transversely of the frame at the bottom and having an operator crank coupled with one end of the shaft at one side of the frame to rotate the shaft, a pair of operating bars coupled with opposite ends of the shaft to be actuated thereby and coupled with the sash section to swingably actuate the same, said bars extending along the inside of opposite sides of the frame between the frame and the sash section, a pair of fulcrum links swingably supporting the sash within the frame with each link pivotally mounted at opposite ends at fixed positions along the vertical extent of the sides of the sash and frame, and the fulcrum link pivotally mounted on the side of the frame adjacent the operator crank being of a longer length than the link at the other side of the frame thereby permitting the sash during the closing movement to abut the frame at the side opposite the operator crank before abutting the side adjacent the crank.

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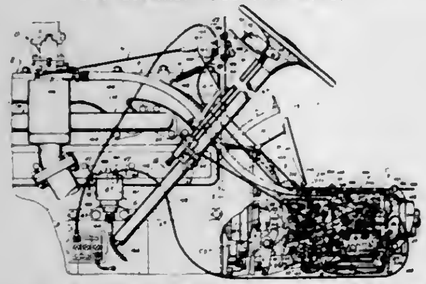
**2,644,558**
**REINFORCED LUGGAGE CONSTRUCTION**
**Osgar J. Ohanian, Philadelphia, Pa.**
**Application August 19, 1950, Serial No. 180,481**
**1 Claim. (Cl. 190—54)**



A suit case formed of two symmetrical parts each including vertical side and end walls and horizontal top and bottom walls, there being slits formed in each of said parts, said slits bisecting the corners formed by the junction of adjacent vertical side and horizontal walls, said slits extending diagonally across the horizontal walls, and means for reinforcing said corners and for covering said slits, each of said means comprising a rigid member bent to overlie the horizontal and vertical portions of a slit, an outer piece of trim bigger than, but bent similarly to, said rigid member, means securing said rigid member to the underside of said piece of trim, and means for securing said piece of trim to said vertical and horizontal walls.

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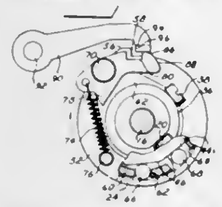
**2,644,559**
**AUTOMOTIVE VARIABLE-RATIO POWER TRANSMISSION**
**Glenn T. Randol, Detroit, Mich.**
**Application October 23, 1945, Serial No. 624,042**
**170 Claims. (Cl. 192—.073)**



1. In a motor vehicle change-speed drive transmission and control therefor; said transmission comprising a plurality of enmeshable gear sets for selectively establishing at least a pair of different forward speed two-way drives; means including a clutch for establishing a first speed drive through one of said gear sets when enmeshed; clutching means for establishing a second speed drive through another gear set in constant mesh gear set; means effective for rendering said first speed drive inoperative automatically upon declutching said first speed drive prior to initial establishment of said second speed drive without demeshing the first speed gear set; means for reverting to said first speed drive automatically upon declutching said second speed drive and reclutching said first speed drive by its clutch means; and means operable for automatically controlling the declutching and reclutching of second and first speed drives, respectively, when the vehicle is operating within a predetermined speed range.

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**2,644,560**
**LATCH OPERATED CLUTCH MECHANISM**
**Edward E. Kleinschmidt, Highland Park, Ill.**
**Application August 20, 1947, Serial No. 769,665**
**7 Claims. (Cl. 192—27)**

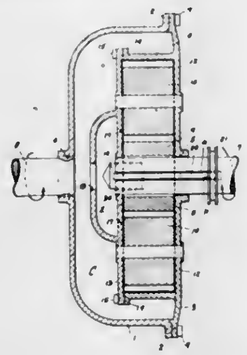


1. In clutch mechanism, coaxial driving and driven members, torque transmitting means comprising a roller clutch cage movable with and relative to said members about the axis thereof and two sets of clutch rollers between the driving and driven members, said cage having means restraining one set of rollers against movement circumferentially of the cage and said members and permitting relative circumferential movement of the other set of rollers, said driven member having a circumferential succession of flat peripheral faces respectively opposed to the individual rollers, in each set, said other set of rollers effectively engaging the driven member under the influence of centrifugal force to prevent reverse rotation thereof, and disengageable stop means to arrest rotation of the roller cage and driven member in successive order, whereby said first set of clutch rollers are disposed out of torque transmitting relation to the driven member and said other set of rollers move relative to the cage out of engagement with said driven member.

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**2,644,561**
**FLUID POWER DRIVE AND CONTROL UNIT**
**Myron J. Dikeman, Grosse Pointe Woods, Mich.**
**Application April 12, 1948, Serial No. 20,513**
**3 Claims. (Cl. 192—61)**

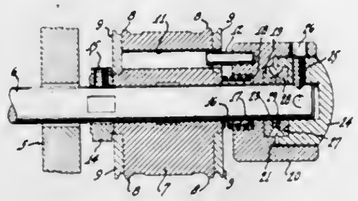
1. A fluid drive and control unit for transferring power from one rotatable shaft to another, comprising a closed, cylindrical, fluid filled, power casing having a drive shaft section rotatably mounted through one end thereof and a driven shaft section fixedly mounted within the opposite casing end, both positioned concentric with the casing axis, a flat fluid power control unit formed of a spur gear assembly rotatably mounted within a flat surface-fitting gear case, fixedly mounted within the power casing on the rotatable drive shaft end thereof, concentric with said drive shaft and with said gear assembly operatively connected thereto, said gear casing having its inner flat side wall positioned near and across the power casing chamber central section, and designed with a short, raised, central fluid discharge chamber having a central open end discharge port, both chamber and port positioned concentric with and adjacent to the inner drive shaft end,



an open fluid inlet port formed through the gear casing forward advancing edge wall, fluid outlet ports formed through the gear casing inner flat side wall, opening into the central discharge chamber, a circular fluid control plug valve slidably mounted on the drive shaft inner end, concentric therewith, designed and positioned to close and regulate said central fluid chamber discharge port, splined means mounted on the shaft end for slidably displacing said control plug valve with respect to the adjacent discharge port.

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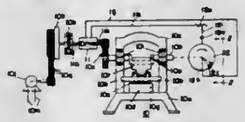
**2,644,562**
**FILM SPROCKET CLUTCH**
**James L. Pettus, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware**
**Application February 16, 1951, Serial No. 211,265**
**6 Claims. (Cl. 192—67)**



1. An adjustable film driving sprocket comprising a drive shaft, a sprocket rotatable on said shaft, a spinner element, a pin mounted on said spinner element and passing into an opening in said sprocket, a hub fixedly attached to said shaft and adjacent said spinner element, two sets of opposing serrations, one set being on said spinner, and the other set being on said hub, and a spring adapted to normally maintain said serrations in engagement, said serrations being disengaged by movement of said spinner element against the compression of said spring.



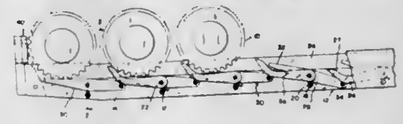
**2,644,563**
**OVERLOAD PROTECTIVE SYSTEM**
**Leonard R. Crary, Philadelphia, Pa.**
**Application March 10, 1950, Serial No. 148,986**
**6 Claims. (Cl. 192—150)**



1. In a system for protecting from damage due to overload a power-driven machine having the characteristic of being susceptible to such damage only at driving torques above a limit which changes through recurring cycles of operation of the machine, said torque limit being substantially constant during a certain portion of said cycles, the combination which comprises an electric drive unit for transmitting to said machine torque less than an adjustable torque limit determined by the magnitude of an electric current supplied to said unit, said unit being incapable of transmitting to said machine torque greater than said adjustable limit, and means for recurrently adjusting said current concurrently with said cycles, said means being adapted and arranged to adjust said current to maintain said adjustable torque limit substantially at said driving torque limit throughout said portion of said cycles, said means comprising a rheostat including relatively movable contact and resistance members, one of said members being driven relative to the other in synchronism with said machine, said resistance member including a constant current conducting portion for maintaining constant said adjustable torque limit during said portion of said cycles and a progressively decreasing resistance portion for progressively decreasing said adjustable torque limit during other portions of said cycles.

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**2,644,564**
**FEED CHUTE**
**Arthur Bassoff, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan**
**Application July 2, 1951, Serial No. 234,893**
**5 Claims. (Cl. 193—40)**

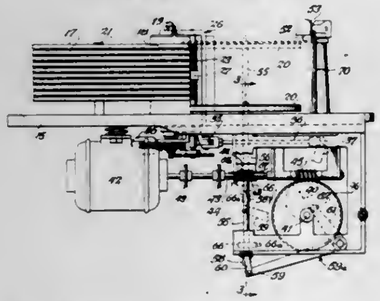


1. An inclined chute for the gravity advance of articles such as gears or the like which might be injured if allowed to engage each other, a series of stop fingers extending longitudinally of said chute and pivoted thereto adjacent their upper ends, said fingers having article engaging stop portions adjacent the lower ends thereof, said fingers being biased by gravity to a position in which said stop portions are below stop position, a series of actuating levers extending longitudinally of said chute and pivoted intermediate their ends to said chute and having their lower ends movable between a raised position in which they are engaged by an article moving along said chute and an actuating position in which the said lower ends of said levers are depressed by an article and the upper ends of said levers are raised, abutment means at the upper ends of said levers and the lower ends of said fingers, said fingers each operating through

said abutment means to raise the lower end of the associated lever when no article is engaging each stop finger, and each lever operating through said abutment means to raise the stop portion of its associated stop finger when an article engages the lower end of such lever.

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**2,644,565**
**AUTOMATIC PHONOGRAPH**
**Edward A. Ebert, Snyder, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio**
**Application November 29, 1944, Serial No. 565,618**
**11 Claims. (Cl. 194—15)**

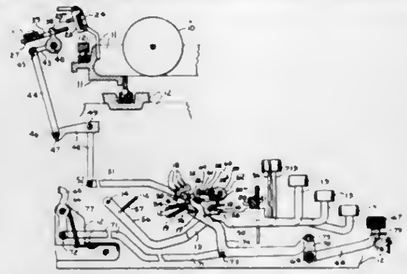


7. An automatic coin controlled phonograph comprising a reproducing means, a record magazine for a plurality of records disposed adjacent said reproducing means, a mechanism for selectively presenting a record from said magazine into operative engagement with said reproducing means, a coin chute for receiving coins, coin controlled means operable in response to coins received in said coin chute for selecting a plurality of records and for automatically effecting the operation of said mechanism, to play selected records in sequence, and including a selectively operable record preselector and a record medium, said preselector having a plurality of selectively operable members, each corresponding to a record in said record magazine, and disposed with respect to said record medium when actuated to place indicia on said record medium for indicating thereon the number of times each record is played, wherefrom its popularity may be determined, and means including plural elements each selectively responsive to the previously placed indicia on said medium and operatively associated with said mechanism for controlling the said operation of the mechanism.

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**2,644,566**
**LINE LOCKING AND MARGIN RELEASING MECHANISM FOR TYPEWRITING MACHINES**
**Laurence B. Hill and Charles Walker, Syracuse, N. Y., assignors to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York**
**Application July 26, 1951, Serial No. 238,738**
**7 Claims. (Cl. 197—108)**

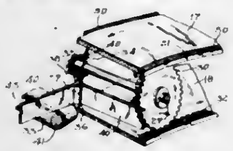
1. A typewriting machine having, in combination, a platen carriage reciprocable in letter feeding and return directions, a set of key-operated type bar actuating levers, a margin release key lever having a lateral projection, a return spring connected to said margin release key lever, a return stop for said margin release key lever, a line locking member mounted for gravitational movement from an ineffective position into a line locking position in which it blocks effective actuation of said type bar actuating levers, a stop engageable by said member to arrest it in line locking position, a controlling lever for said line locking member, a return spring connected to said controlling lever to normally hold it rocked against said member and the projection on the margin release key lever to yieldingly hold said member in its ineffective position, a margin stop mounted to travel with the carriage, and means controlled by said margin stop



for rocking said controlling lever out of engagement with said member and projection to permit said member to move to line locking position and then arresting letter feeding travel of the carriage, said margin stop controlled means being operable to free the carriage for further letter feed travel by a further rocking of said controlling lever by said margin release key lever projection when the margin release key lever is moved against the resistance of its return spring.

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**2,644,567**
**FOOD SERVICE CONVEYER**
**Winton L. Springer, New York, N. Y.**
**Substituted for abandoned application Serial No. 628,537, November 14, 1945. This application August 24, 1948, Serial No. 45,900**
**4 Claims. (Cl. 198—25)**



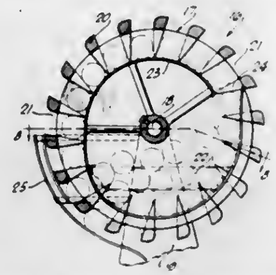
1. In a device of the class described, a circular base, superimposed conveyors mounted on said base, means associated with said conveyors concealing one of them, means rotatively supporting said conveyors, racks formed on the adjacent inner faces of said conveyors, a large gear between said conveyors and meshing with said racks, and means for driving said large gear to turn said conveyors in opposite directions.

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**2,644,568**
**ROTARY FRUIT FEEDER**
**Lloyd A. Wells, Long Beach, Calif., assignor to Brown Citrus Machinery Corporation, Whittier, Calif., a corporation of California**
**Original application November 12, 1948, Serial No. 59,477. Divided and this application April 25, 1952, Serial No. 284,369**
**6 Claims. (Cl. 198—30)**

1. A fruit feeding device for a juice extracting machine comprising the combination of a substantially vertical circular plate mounted for rotation about a substantially horizontal axis, a plurality of radial webs mounted on one side of the plate, each pair of adjacent webs defining therebetween a fruit-receiving pocket, each web having a central slot, an annular cover member mounted substantially parallel to said plate and overlying said webs for rotation therewith, and a stationary baffle extending through the slots in said webs, said baffle being substan-





tially helical in shape and extending from one end thereof at the outer periphery of the upper portion of said plate to the other end thereof inwardly of the outer edge of said plate, the two ends of said baffle being spaced to provide an opening for the passage of fruit therebetween, said plate and cover member forming with the upper portion of said baffle a substantially U-shaped channel for the reception of fruit.

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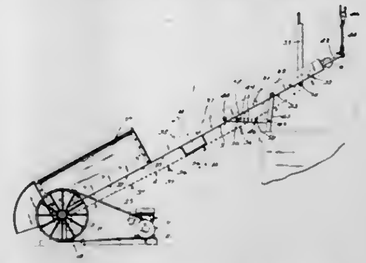
**2,644,569**
**PITTING AND STUFFING APPARATUS CONVEYER**
**Marshall E. Francisco, San Jose, Calif.**
**Application January 8, 1951, Serial No. 204,970**
**6 Claims. (Cl. 198—33)**



2. In an apparatus for conveying and aligning oblong rollable articles, a hopper adapted to receive the rollable articles in bulk; a fluid bath in the hopper adapted to buoy articles deposited therein; a pathway having a relatively horizontal lower end portion immersed in the bath, an upwardly inclined central portion extended from the bath, and a relatively horizontal upper end portion, the upper end portion having a plurality of transverse corrugations formed therein in substantially right angular relation to the pathway; a pair of endless chains mounted in parallel relation for circuitous travel longitudinally of the pathway and having a portion arranged for travel upwardly thereof, the chain being mounted with sufficient slack gravitationally to conform to the relatively horizontal and more inclined portions thereof; U-shaped clips of spring material interconnecting the chains for travel therewith over the pathway and having inwardly turned hooked ends extended upwardly of the pathway; and a plurality of motivating cups having concave edges upwardly disposed to the pathway and bases in releasable engagement with the clips and hooked ends thereof.

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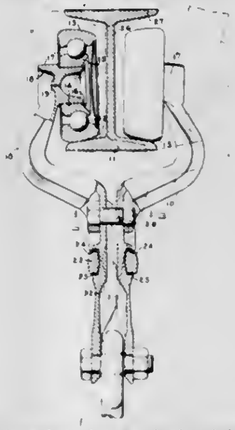
**2,644,570**
**MATERIAL ELEVATOR**
**Stanley D. Russell, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a company of Wisconsin**
**Application July 11, 1946, Serial No. 682,892**
**11 Claims. (Cl. 198—122)**



1. A portable elevator comprising a pair of coaxial ground-engaging wheels, an elongated endless conveyor support swingably mounted for height adjustment movement about the axis of said wheels, an endless conveyor mounted on said support, a pair of rotors spaced longitudinally of said swingable support for supporting the endless conveyor in extended position, one of said rotors being coaxial with said wheels, and means for supporting one of said wheels above the ground, one of said rotors being rotatable with the elevated wheel.

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**2,644,571**
**TROLLEY CONVEYER BRACKET**
**Jervis B. Webb, Bloomfield Hills, and Jervis C. Webb, Birmingham, Mich., assignors to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan**
**Application July 8, 1947, Serial No. 759,486**
**1 Claim. (Cl. 198—177)**



A trolley bracket for a chain driven overhead trolley conveyor system of the type wherein a pair of identical brackets are provided with trolley wheels at their upper ends adapted to run along opposite sides of the lower flange of an I-beam track wherein said brackets converge below such track and extend through the center opening of a solid drive chain link a distance exceeding the width of said brackets, being held in spaced and aligned relationship for supporting engagement with said chain link by opposing

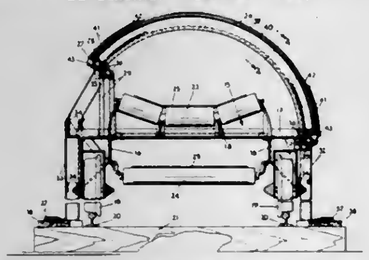
flanges and ribs projecting from their inner faces together with a single bolt passing through both brackets, said flanges being capable of disengagement upon lateral shifting of brackets in one direction and adapted to engage said ribs upon lateral shifting of said brackets in an opposite direction, and wherein the lower ends of said brackets below said chain link are adapted to acccommodate the insertion of a load carrying member, and bracket being characterized by an off-center bolt hole requiring the bolt to be passed through said brackets at an angle in a manner whereby the tightening of said bolt will urge opposing flanges and ribs into lateral engagement, and by an outwardly extending offset in the central portion of the inner face below the seat for the chain link in a manner whereby the upper end of one of a pair of said brackets may be tilted outwardly a distance sufficient to clear the flanges of the I-beam track while the lower end of said bracket is passing through said chain link.

2,644,572

## COVER MEANS FOR BELT CONVEYERS

**Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**

**Application April 22, 1950, Serial No. 157,498**
**11 Claims. (Cl. 198—204)**



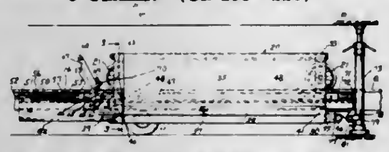
1. A conveyer including a longitudinally extending frame, means mounting said frame for rectilinear traveling movement, a conveyer supported by said frame, means for covering said conveyer including a hood having a metal portion extending partially thereover and ending in a lateral edge above said conveyer, and a flexible canvas extension for said metal portion adjacent at least one side of said conveyer, said hood covering the top and both sides of said conveyer.

2,644,573

## CONVEYER-PROPELLED SUPPLY TRUCK FOR USE WITH SHAKING CONVEYERS

**Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**

**Application February 25, 1949, Serial No. 78,274**
**5 Claims. (Cl. 198—220)**



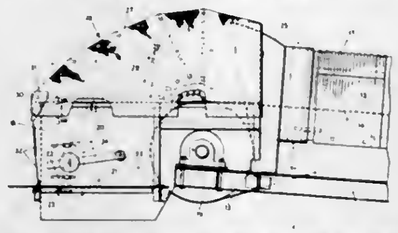
5. In combination, a shaker conveyor trough having flanged side walls, a car adapted to traverse the conveyor trough and having wheels for riding on said walls, intermittent grip devices coacting with the flanges of said side walls for effecting the movement of said car along said conveyor trough, means engageable, when said car attains to a predetermined position along said trough, by an extraneous element relative to which said car is movable along said trough, for rendering said intermittent grip devices inoperative, and means also engageable with an extraneous element relative to which said car is movable along said trough, for holding said car against retrograde movement when said intermittent grip devices are rendered inoperative.

2,644,574

## FLEXIBLE COVER FOR BELT CONVEYERS

**Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**

**Application February 21, 1950, Serial No. 145,504**
**4 Claims. (Cl. 198—228)**



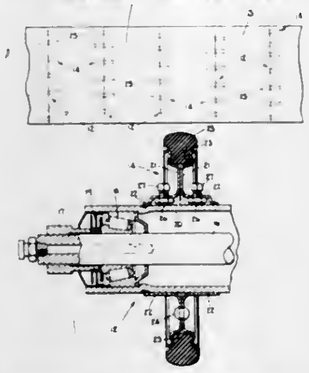
1. A conveyer including an elongated, generally horizontal frame member, belt conveying mechanism on said frame including a head pulley, a stationary cover over a portion of the belt conveyeing mechanism, a flexible cover extending around the head pulley, an arched canopy overlapping between said stationary cover and said flexible cover, and a U-shaped shield forward of the head pulley to which the flexible cover extends.

2,644,575

## MULTIRUBBER TIRED ADJUSTABLY SPACED CONVEYER RETURN IDLER ASSEMBLY

**Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**

**Application April 8, 1947, Serial No. 740,011**
**7 Claims. (Cl. 198—230)**



6. A conveyer including a belt, a plurality of return idlers mounted to support said belt during its return run, individual wheels on each idler having individual tires contacting and supporting said belt during its return run, the tires on each idler being spaced apart at least the width of two tires, the tires of said idlers being offset so that substantially the entire lower lateral surface of said belt between the outermost tires contacts a tire in passing over said plurality of idlers during its return run, at least one of said idlers including a hub with a plurality of individual spaced wheels thereon, and means for adjustably clamping at least some of said wheels at different positions along said hub, said last named means including set screw means clamping with said hub.

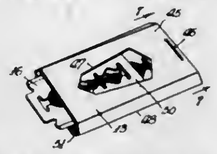


2,644,576

## RAZOR BLADE MAGAZINE

**Edward J. Gray, New York, N. Y.; Irene Carol Gray, executrix of said Edward J. Gray, deceased**

**Application June 4, 1948, Serial No. 31,173**
**3 Claims. (Cl. 206—16)**



3. A magazine for a plurality of conventional double edge safety razor blades, said magazine comprising a wrapper for each of such blades encompassing the lateral edges thereof, means integral with each of said wrappers to position the blade therein so that one end of the wrapper extends beyond the associated end of such blade, said wrappers being open at the other end thereof and each having an opening through the upper face thereof providing access to the associated face of such blade and a similar opening in its lower face, said openings being in registry, a cover for said wrapped blades encompassing the latter, open at one end thereof and affixed at its other end to the extending ends of said wrappers, said cover having side walls scored longitudinally along the center thereof permitting collapse of the opposed faces of said cover towards each other, securely to retain the blades therebetween and prevent displacement thereof, said cover having an opening in a face thereof substantially aligned with the openings in the faces of said wrappers, whereby when finger pressure is applied on the exposed face of the blade adjacent the opening in said cover, the blade will readily slide out of said wrapper and said cover through the open ends thereof.

2,644,577

## COSMETIC HOLDER

**Emil H. Orenick, Cleveland, Ohio**

**Application October 26, 1948, Serial No. 56,502**
**5 Claims. (Cl. 206—56)**



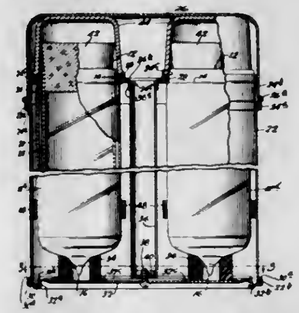
5. A holder for lipsticks and the like comprising an outer tubular casing member which is circular in cross section throughout the major portion of its periphery and which has one side projecting and flattened and which curves away from the flattened side at one end, said one end having a central opening therein, means including an inturned flange forming a track at opposite sides of said opening, an inner tubular casing member fitting fixedly in the outer casing member with its side wall spaced from the flattened side of the casing, a unitary flexible closure fitting between the flattened wall of the outer casing member and the inner tubular casing member and fitting in said tracks, means in one of the casing members defining an axially extending cam track, a sleeve rotatable in the outer casing member projecting from the other end thereof and formed with an operating knob by which it can be turned, a spiral cam track on the sleeve, and projecting means on the closure engaging the cam tracks whereby the closure will be shifted axially in the casing when the sleeve is turned.

2,644,578

## CONTAINER FOR A PLURALITY OF VACUUM BOTTLES

**Carl Bramming, Anderson, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois**

**Application February 3, 1950, Serial No. 142,165**
**2 Claims. (Cl. 206—65)**



1. In combination, a vacuum bottle housing defining a space to receive a plurality of vacuum bottles in parallel array having individual vacuum bottle openings at one end, vacuum bottles received in said openings and each defining an annular shoulder adjacent its end, a resilient washer interposed between each shoulder and the portions of the housing marginal to the corresponding opening, a detachable cap at the other end of said housing, the housing having an opening between said bottle openings, a hollow post affixed to the housing in registry with said last opening and extending to said cap, means detachably securing said cap to said post, a hollow tube of resilient material interposed between the bottom of each bottle and said cap to protect the fragile tubulation of the bottle, and a band of resilient material surrounding each bottle and extending to the adjacent portion of the housing.

2,644,579

## CULL CHECKING SYSTEM FOR MULTIPLE STATION GRADING OR PACKING STANDS

**Gerald C. Paxton, Sanger, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California**

**Application December 31, 1948, Serial No. 68,704**
**18 Claims. (Cl. 209—125)**

1. In combination with a multiple station fruit or vegetable grading or packing stand which in-

cludes an endless conveyor common to said stations, a hopper adjacent each station in position to feed to the conveyor, a normally closed gate in cooperation with each hopper, exposed station-identifying indicia on the conveyor corresponding to each station, and means arranged to open



the hopper gate at each station only when the corresponding indicium is adjacent on the conveyor; the stations being spaced lengthwise of the conveyor, the indicia being correspondingly spaced on the conveyor, and said means being operative to open all of the gates simultaneously.

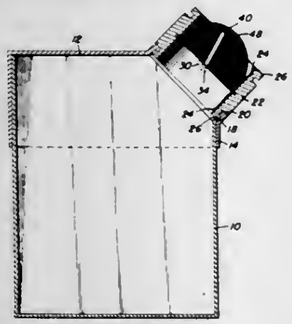
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**2,644,580**
**MINERAL FLOTATION**
**Thomas E. Robbins, Jr., Nutley, N. J., and William H. Hill, Pittsburgh, Pa., assignors to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware**
**No Drawing. Application July 6, 1949, Serial No. 103,314**
**9 Claims. (Cl. 209—166)**

1. In a process for the froth flotation of a sulfidic ore the step of effecting the flotation in the presence of 2-mercaptobenzimidazole.

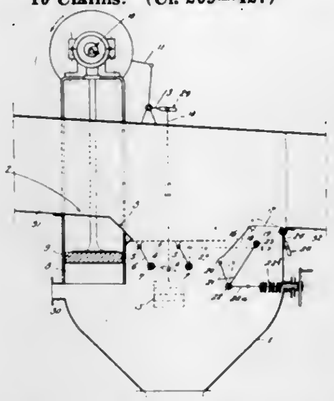
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**2,644,581**
**FLOUR SIFTER**
**Thomas F. Humphreys, Joliet, Ill.**
**Application December 31, 1948, Serial No. 68,508**
**1 Claim. (Cl. 209—240)**



A flour sifting device comprising a main container having a removable top to permit flour to be inserted into the container, said top having a corner wall within an opening therein, a sleeve secured to said corner wall in registry with the opening, a screen in the sleeve, a beater within the sleeve for beating flour through the screen, and an auxiliary container having an open end and a flat closed end opposite said open end, said open end being removably secured to the sleeve, said corner wall being disposed at an angle of substantially forty-five degrees with respect to said main container so that all the contents of the main container may be sifted therefrom when the auxiliary container is supported on said flat closed end on a horizontal surface with the main container disposed over the auxiliary container.

**2,644,582**
**METHOD AND APPARATUS FOR TREATING MATERIALS OF DIFFERENT SPECIFIC GRAVITIES**
**Edmond Harvengt, Moustier-sur-Sambre, Belgium, assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois**
**Application February 25, 1948, Serial No. 10,756**
**In Belgium June 25, 1945**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires June 25, 1965**
**10 Claims. (Cl. 209—427)**



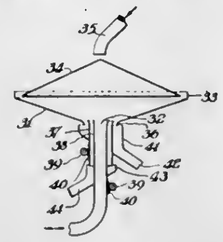
3. Apparatus for separating from one another granular materials of different densities, especially coals, ores, and the like, comprising a bin, adapted to be filled with liquid, having a side inlet for the admission of the granular materials to be separated and a side outlet for the discharge of the separated materials of lesser densities, a screen, having an unobstructed top surface, positioned in the upper portion of the bin to receive the granular materials admitted through the side inlet and spaced at its discharge end from the side outlet to provide an opening through which the materials of greater densities will be discharged into the portion of the bin below the screen, means for supporting the screen for oscillating movements downwardly and horizontally toward the side inlet and upwardly and horizontally toward the side outlet, means for imparting such movements to the screen, means for producing liquid impulses in the bin acting on the materials resting on the screen, means for actuating said liquid impulse producing means in timed relation to the movements of the screen to produce an upward impulse through the screen while the latter is moving downwardly and a downward impulse through the screen while the latter is moving upwardly, a stationary abutment adjacent the inlet end of the screen for opposing the tendency of the materials to follow the horizontal movements of the screen toward the side inlet to advance the materials along the screen, and means positioned in said discharge opening for controlling its effective area.

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**2,644,583**
**CONCENTRATION AND SEPARATION OF GRANULAR MIXTURES**
**Harry B. Cannon, Chestertown, Md., and Oscar H. Trudeau, Manteno, Ill.; said Trudeau assignor to said Cannon**
**Application July 5, 1949, Serial No. 103,048**
**2 Claims. (Cl. 209—459)**

1. A separator of granular mixtures, which comprises an inverted cone having a circular outlet at its apex, means for evenly feeding a flowable material to the upper edge of said cone, and dividing means located within said outlet in the normal path of flow from said cone, said dividing





means including a substantially tubular member whose upper edge is disposed horizontally across the path of flow in a zone of free fall and spaced from the periphery of the said apex.

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**2,644,584**
**OIL SEPARATOR**
**Harold L. Johnson, Detroit, Mich.**
**Application November 18, 1949, Serial No. 128,228**
**1 Claim. (Cl. 210—52)**

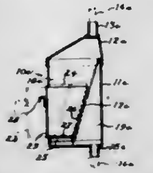


In an apparatus for separating immiscible liquids, a vertically disposed collecting tank positioned below a ground surface and having its upper end open and flush with said ground surface, a first conduit having one end arranged adjacent to the lower end of said collecting tank and connected to said collecting tank, the other end of said first conduit being spaced above said one end adapted to be connected to a disposal system located beneath said ground surface, a storage tank including a top wall spaced from said collecting tank and positioned beneath the ground surface, said top wall of said storage tank being spaced further from the ground surface than the other end of said first conduit, a second conduit extending between and connected to said collecting and storage tanks, one end of said second conduit being within said collecting tank and positioned substantially the same distance beneath the ground surface as said other end of said first conduit, the other end of said second conduit extending through the top wall of said storage tank, and conduit means connected to said storage tank for withdrawing the contents thereof.

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**2,644,585**
**LEADER DRAIN TRAP**
**Louis F. Ambrosi, Richmond Hill, N. Y.**
**Application October 10, 1950, Serial No. 189,320**
**2 Claims. (Cl. 210—90)**

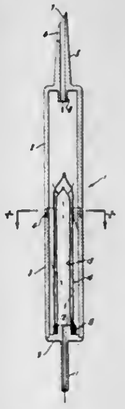
1. A leader drain trap comprising; a receptacle having a top inlet for receiving the leader drain, a bottom outlet for a sewage connection, and the bottom side thereof sloped toward said bottom outlet; a mesh element extending between the side walls of said receptacle and dividing same as to provide a refuse accumulating compartment and to prevent passage of refuse through said outlet, said mesh element being inclined upwardly to the rear wall of said receptacle to prevent accumulation of refuse thereon and to direct said refuse from said top inlet toward the bottom of said accumulating compartment, said accumu-



lating compartment including an access opening; a drawer removably positioned in said accumulating compartment through said access opening so as to have said refuse directed thereinto by said mesh element, said drawer effectively closing said access opening when positioned in said accumulating compartment; and means effective for draining said drawer.

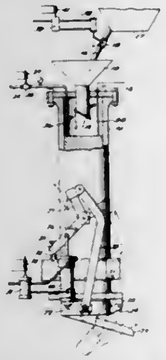
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**2,644,586**
**BLOOD STRAINER AND DRIP METER**
**Fred A. Cutter, Oakland, Calif., assignor to Cutter Laboratories, Berkeley, Calif., a corporation of California**
**Application August 1, 1949, Serial No. 108,030**
**1 Claim. (Cl. 210—164)**



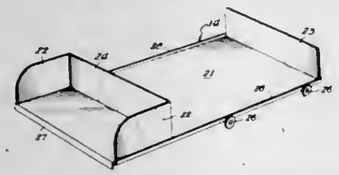
A plastic blood drip meter and strainer comprising: upper and lower cylindrical shell members sealed together end for end to form a unitary structure, said upper member terminating at its upper end in an upwardly extending inlet nipple and the upper end of said lower member being provided with inwardly extending spacing fingers; a cap sealed over the lower end of said lower member, said cap being provided with a downwardly extending discharge nipple and with a boss extending upwardly into the lower end of said lower member; a relatively fine cylindrical strainer fastened at its lower end to said boss over said discharge nipple, the upper end of said strainer being closed; and a relatively coarse strainer circumscribing said fine strainer; said fingers serving to hold the upper ends of said strainers centrally disposed within said shell members.

**2,644,587**
**DEWATERING DEVICE FOR SAND AND THE LIKE**
**Roderick S. Webster, Chicago, Ill., assignor to The Hydro-Blast Corporation, Chicago, Ill., a corporation of Illinois**
**Application December 31, 1949, Serial No. 136,349**
**8 Claims. (Cl. 210—185)**



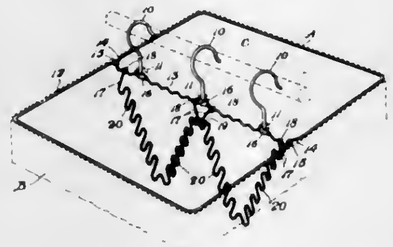
1. A dewatering device for sand and the like, comprising a vertical chamber of substantially uniform section and unobstructed throughout its height and open at the bottom, a supply connection at the top of the chamber to supply wet sand thereto, a valve to close the supply connection, a movable perforated closure for the bottom of the chamber, a pipe communicating with the upper part of the chamber to supply compressed air thereto, a control valve in the air supply pipe, and a cyclic controller to open the control valve for a predetermined period to blow water from the wet sand through the perforated closure and thereafter to move the closure away from the bottom of the chamber to discharge the sand.

**2,644,588**
**LIBRARY SHELF ARRANGEMENT**
**Clifford S. Brown, Wauwatosa, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin**
**Application November 9, 1950, Serial No. 194,839**
**3 Claims. (Cl. 211—42)**



1. In a library shelf arrangement including a plurality of upright supports and shelf supporting means carried by and between the supports, the combination, with extension tracks slidable on the shelf supporting means, of an elongated shelf slidable longitudinally on said extension tracks, said shelf being longer from front to rear than it is wide and open at the front thereof, the width of the shelf being substantially equal to the depth of two normal rows of books, a relatively short book abutment disposed longitudinally of the shelf at each side thereof adjacent the front end of the shelf, a forward transverse book abutment disposed adjacent and at the rear of the first mentioned abutments and spaced from the rear end of the shelf whereby the front end of the shelf provides a compartment for holding books in a transverse row across the front of the shelf between said longitudinal abutments with their title-carrying backs facing forwardly and accessible without withdrawing the shelf from between said supports, and a transverse book abutment at the rear end of the shelf spaced from said forward transverse abutment whereby the portion of the shelf between said transverse abutments provides a rear compartment for holding books in two rows longitudinally of the shelf with the backs of the books of the longitudinal rows facing oppositely and laterally outwardly of the shelf, the shelf between said transverse abutments being substantially unobstructed at its sides to facilitate lateral withdrawal of books from said rear compartment, and means for causing the extension tracks to move partially forwardly with the shelf and with respect to the supports as the shelf is withdrawn from between the supports, whereby the books of said longitudinal rows are accessible and their titles readable from opposite lateral sides of the shelf respectively when the shelf is withdrawn from between said supports, the shelf at such time being intermediately supported by said extension tracks.

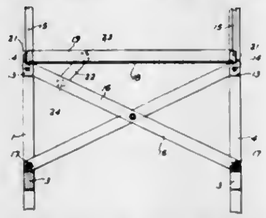
**2,644,589**
**GARMENT BAG**
**Betty Levine, New York, N. Y.**
**Application June 16, 1950, Serial No. 168,635**
**1 Claim. (Cl. 211—118)**



A device for supporting a garment bag and a plurality of garment hangers within the bag comprising a frame adapted to fit within the bag and around the periphery of the upper end thereof, the sides of said frame lying in a common plane, a cross-bar extending across the said frame attached at each end thereof to one of the sides of said frame, at least one hook attached at its lower end to the said cross-bar, and a pair of generally V-shaped wire members normally dependent from said cross-bar, each of said V-shaped members having one of its ends fastened to said cross-bar adjacent the ends thereof, the other of the ends of each of said V-shaped members being fastened to said cross-bar at points spaced from said first ends of said V-shaped members and adjacent the center of said cross-bar, each of said V-shaped wire members having a plurality of wave-like portions formed along the length thereof forming a series of valleys extending substantially vertically downward, the lowermost portions of said valleys being each spaced both vertically and horizontally from the corresponding portion of the adjacent valley to thereby form a series of vertically and horizontally spaced hanger supporting means.

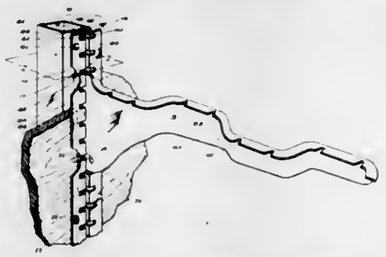


**2,644,590**
**FOLDING STAND AND TRAY**
**William C. Baxter, Rochester, N. Y., assignor to Trimble, Inc., Rochester, N. Y., a corporation of New York**
**Application November 20, 1951, Serial No. 257,373**
**3 Claims. (Cl. 211—132)**



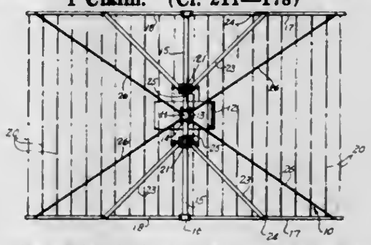
1. In a folding stand comprising a pair of leg frames movable toward and from each other in parallelism and controlled by inner and outer connecting frames each including a top rail vertically slidable in guideways in the legs of one of the leg frames and a pair of cross-rails each pivotally connected centrally to a cross-rail of the other connecting frame and pivotally attached at its free end to the legs of the other leg frame, the improvement which consists in a tray positioned parallel to and supported on the cross-rails of the inner connecting frame when the stand is folded, said tray having a length greater than the distance between the cross-rails of said inner connecting frame and less than the distance between the cross-rails of said outer connecting frame, said tray having a width less than the length of said cross-rails and greater than the distance between opposite top rails when the stand is unfolded, and links pivotally connected to said tray and to the cross-rails of the inner connecting frame, permitting the tray to be supported on said cross-rails parallel thereto when the stand is folded and to be moved bodily to a horizontal position supported on both top rails when the stand is open.

**2,644,591**
**SHELVING AND PARTITION SUPPORT**
**Roy Franklin McMahan, near Louisville, Ky.**
**Application December 10, 1948, Serial No. 64,606**
**12 Claims. (Cl. 211—147)**



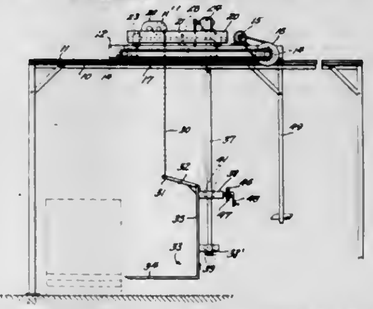
1. A combined self-standing partition and shelf support comprising: an upright member having a bifurcated face; substantially parallel webs extending exteriorly from the edges of said bifurcation, each web of said upright having a series of seats therein and slots extending from said seats to the edges of said webs; and oppositely turned flanges at the edges of said webs providing with said face oppositely opening channels adapted to receive partitions therein.

**2,644,592**
**COLLAPSIBLE CLOTHES DRIER**
**James F. Campion, Freeport, N. Y.**
**Application February 26, 1951, Serial No. 212,823**
**1 Claim. (Cl. 211—178)**



A collapsible clothes drier comprising an upright post, a collar slidably mounted on said post and having pairs of ears positioned upon opposite sides thereof, a support arm pivotally mounted between the ears of each pair, said support arms each having an outwardly opening channel member at the end thereof, a pair of clothes line supporting elements arranged in aligned relation within each of said channel members and pivotally connected thereto, a sleeve slidably mounted on each of said support arms, brace rods pivotally mounted to said sleeves and extended diagonally therefrom at opposite sides and pivotally connected to respective clothes line supporting elements at points spaced a substantial distance outwardly of said open channel members, stop means on said support arms for limiting sliding movement of said sleeves, and cable memoers connected between an upper portion of said upright post and outer ends of said clothes line supporting elements.

**2,644,593**
**MATERIAL LIFTING AND TRANSFERRING APPARATUS**
**Henry E. Miller, Columbus, Ohio**
**Application September 21, 1951, Serial No. 247,643**
**3 Claims. (Cl. 212—11)**



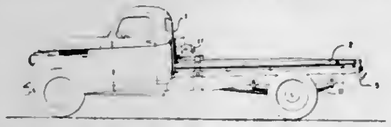
1. In product-lifting and conveying apparatus, a crane-carried vertically disposed guide frame, a product carrier having a horizontal bottom section and a vertical back section, said back section being disposed laterally of and at the front of said guide frame, upper and lower bracket devices projecting rigidly and rearwardly from the back section of said carrier, antifriction means rotatably carried by said devices in engagement with said guide frame, and means for shifting the operating positions of the antifriction means provided in the upper of said devices relative to the position of the antifriction means in the lower of said devices, whereby to vary the angularity of the carrier with respect to said guide frame.

**2,644,594**
**WAGON UNLOADER**
**Victor J. Komuchar, Brookfield, and John E. Gammie, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey**
**Application December 9, 1950, Serial No. 200,033**
**8 Claims. (Cl. 214—83.3)**



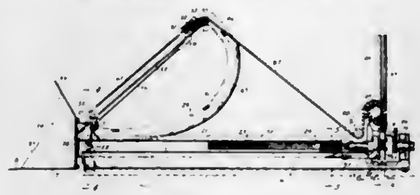
1. In a material hauling vehicle having a body, a conveyor carried thereby, and operating means at a side of the body for said conveyor and comprising a hydraulic motor having a cylinder pivotally connected to the body and a piston reciprocal in the cylinder and extending therewith longitudinally of the vehicle, push and pull levers pivotally connected adjacent to one end to each other and to the outer end of said piston, a toothed ratchet wheel rotatably mounted on said side of the body, pawls pivoted to the other ends of said levers and operatively associated with said ratchet wheel for engagement with the teeth thereof, a guide link pivoted at one end to the other end of each lever and rotatably mounted at its other end for rotation on the axis of rotation of the ratchet wheel, said links and levers defining a parallelogram operating linkage and said levers diverging toward the ratchet wheel, a transverse shaft journaled to the body and operatively associated with said conveyor, and a drive connection between said ratchet wheel and said shaft, said motor upon extension of the piston thereof directing force to rotate the ratchet wheel through said push lever and upon retraction of the piston delivering the force through said pull lever, said conveyor comprising a plurality of walking boards arranged in two sets, means including cam means on the shaft operatively associated with each board for shifting it into and out of the body, said cam means arranged to raise and lower said sets alternately while shifting the respective boards, each set of boards when in raised position carrying the load and in certain position of the related cam means gravitationally driving the same whereby the corresponding cycle of movement of each set of boards is accelerated and then abruptly slowed whereby jarring or breaking up the load carried by the conveyor, said ratchet wheel adapted to overrun said linkage in response to acceleration of the conveyor whereby at the corresponding interval said linkage is unloaded.

**2,644,595**
**CRANE ARM FOR TRUCKS**
**Walter W. Levan, Fleetwood, Pa.**
**Application January 12, 1950, Serial No. 138,096**
**1 Claim. (Cl. 214—86)**



In combination with a truck having a floor, a recess extending longitudinally and substantially centrally of said floor, a boom having one end pivotally mounted forwardly and well beneath the truck floor, said boom being of rectangular construction and having a telescopically fitting extension also of rectangular construction and a hook suspended at the end of said extension, hydraulic means for elevating said boom to selective angles about its pivot and upwardly from said recess, said hydraulic means comprising a pair of hydraulic cylinders whose lower ends are pivotally mounted on the chassis of said truck at a substantial distance underneath said floor, and whose upper portions extend through floor openings adjacent said recess through which said cylinders are adapted to project as the result of pivotal movement of said boom, a pair of pivotally mounted floor panels for covering said openings at the level of the floor and being connected to the upper portions of the cylinders so as to pivotally move to the open position as the cylinders are projected through the floor by pivotal raising movement of the boom, a movable piston extending from the upper end of each cylinder and pivotally connected to an intermediate portion of said boom, said hydraulic means including a source of hydraulic pressure for introducing fluid under pressure in said cylinders so as to raise the boom away from said recess and whereby upon removal of hydraulic pressure, said boom will be lowered into said recess in a manner so that the top surface of said boom will cover said recess at the level of said floor so as to provide a continuous flat, floor surface.

**2,644,596**
**MUCKING MACHINE**
**James K. Wilden, Colton, Calif.**
**Application December 21, 1946, Serial No. 717,699**
**6 Claims. (Cl. 214—148)**

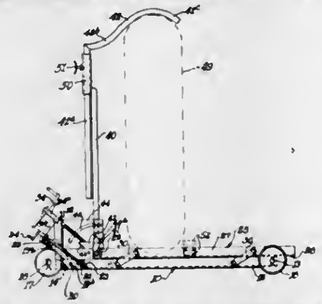


1. In a mucking machine, the combination of a base, a carrier mounted for longitudinal movement on the base, a rocker assembly adapted to roll on the carrier, a scoop on the forward end of the rocker assembly, releasable latch means adapted to maintain the rocker assembly in loading position, power means adapted to move the rocker assembly from loading to dumping position, said power means being effective to release said latch means.

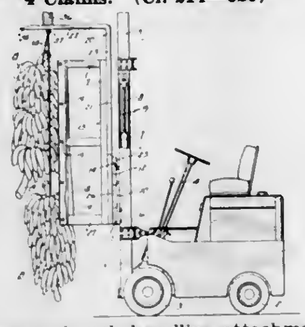
**2,644,597**
**DOLLY FOR HANDLING SINGLE AND DUAL TRUCK WHEELS**
**Orrin E. Lewis, Belleville, Kans.**
**Application January 13, 1951, Serial No. 205,873**
**6 Claims. (Cl. 214—331)**

1. A dolly comprising a base frame including a pair of supporting wheels at the front and rear ends thereof, the front pair of said wheels being mounted on pivotal means carried on the front end of said base frame; a vertically movable load-engaging frame pivotally supported on and above said base frame including laterally spaced plane-aligned side members; a support carried on the front end of said base frame; mechanism for raising and lowering said load-engaging frame comprising a screw bodily movable angularly within an arc and rotatably carried on said support, a yoke carried on said load-engaging frame, a nut bodily shiftable relatively to said load-engaging frame loosely carried in said yoke and in threaded connection with said screw; and manually operable means carried entirely on said base frame for actuating said pivotal means to thereby tilt the dolly about the axis of the front pair of said wheels.





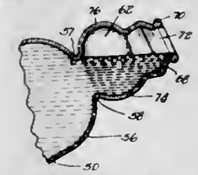
**2,644,598**
**LIFTING AND HANDLING TRUCK FOR BANANA BUNCHES**
**Raymond M. Winslow, Minneapolis, Minn., assignor to Winston and Newell Company, Minneapolis, Minn., a corporation of Delaware**
**Application March 5, 1951, Serial No. 213,878**
**4 Claims. (Cl. 214—620)**



1. A banana bunch-handling attachment for a lifting truck having a lifting head mounted for vertical movements adjacent its forward end, said attachment comprising a rigid box-like frame open at its forward end, a non-metallic flexible apron spanning said open end and secured to opposite side edges of said frame, a pair of laterally-spaced inverted L-shaped lifting forks, the vertical portions of said lifting forks being rigidly secured to the rear portion of said frame and the horizontal portions thereof projecting above said frame and terminating in tapered ends forwardly of the plane of said apron, upstanding anchoring flanges on said lifting head, and depending anchoring hooks on the rear end of said frame, said anchoring hooks being spaced from the bottom of said frame and adapted to frictionally receive therein said anchoring flanges.

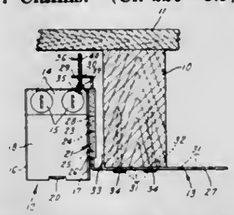
**2,644,599**
**BOTTLE**
**Royden A. Blunt, Baltimore, Md.**
**Application April 24, 1951, Serial No. 222,657**
**5 Claims. (Cl. 215—31)**

1. A container for liquids having separable components of different densities, and comprising a main compartment substantially symmetrical about a vertical axis and terminating in a substantially circular reduced throat also substantially symmetrical about said vertical axis, an upper bulbous compartment above said reduced throat and terminating in a substantially circular pouring opening relatively smaller than the maximum transverse extent of said bulbous compartment and also substantially symmetrical about



said vertical axis, the inner wall surface of said bulbous compartment being substantially circular and substantially eccentric with respect to said vertical axis of symmetry of said main compartment to effect pouring of a highly concentrated component from the upper compartment when the container is tilted for pouring with the wall portion of maximum spacing from the vertical axis disposed uppermost.

**2,644,600**
**WALL BOX AND BRACKET**
**Charles G. Senif, Rome, N. Y.**
**Application May 9, 1950, Serial No. 160,959**
**7 Claims. (Cl. 220—3.9)**



1. An outlet box mounting bracket comprising first and second right angularly related arms, an ear projecting from the outer side of the free end of the first of said arms in substantially parallel relation to the second arm, said ear having a tapped opening therethrough, and a pair of lugs lanced from opposite edges of said second arm at its juncture with the first arm and folded away from the first arm in spaced parallel relation thereto and rigid with and substantially normal to the second arm.

**2,644,601**
**ASH TRAY**
**Coin Q. Cadman, Silver City, N. Mex.**
**Application May 7, 1948, Serial No. 25,641**
**6 Claims. (Cl. 220—4)**



3. An ash tray comprising a sheet of material bent transversely to form a receptacle having a central portion forming a supporting bottom and having the longitudinal edges of the sheet spaced from said bottom and projecting toward each other in spaced parallel relation, a pair of end members corresponding in shape to the cross sectional shape of said receptacle and having reduced portions corresponding in shape to the cross sectional shape of the interior of said receptacle and projecting into the ends thereof, a shield arranged in said receptacle and extend-

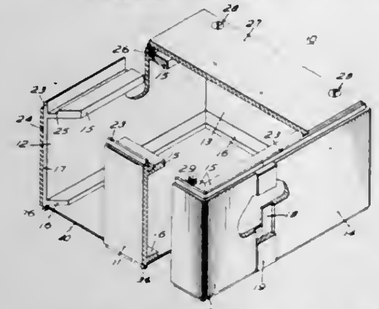
ing from end to end thereof, said end members having recesses corresponding in shape to and receiving the ends of said shield to support it above said bottom and beneath said opening, one end of said shield being permanently fixed in one recess and the other recess frictionally receiving the corresponding end of said shield, the end member in which the last-mentioned recess is formed being fixed to the adjacent end of said receptacle and the opposite end of said receptacle being frictionally engaged with the projecting portion of the end member at the opposite end of said receptacle whereby, when said end members are pulled apart, said shield will remain fixed to one of said end members and said receptacle will remain fixed to the other end member.

**2,644,602**

## ENCLOSURE FORMED BY EXTRUDED SIDE WALLS HAVING AN INTEGRAL FLANGE

**Raymond W. Ross, Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania**

**Application June 28, 1947, Serial No. 757,896**
**2 Claims. (Cl. 220—4)**



2. An enclosure comprising angularly disposed side walls all formed from a common extruded planar strip member folded along a plurality of spaced transverse lines to form a plurality of corners with the free ends of said strip meeting in abutting relation intermediate two of said corners, said member having a solid flange integral therewith, said flange protruding as flange sections from the body portions of the side walls, said member also having a peripheral tongue at one edge thereof, said flange sections abutting at the junctures of said angularly disposed side walls to form a substantially continuous flange, the abutting ends of said extruded member having a shape defining a recess extending across their abutting ends and including a plurality of openings, a structural member having a corresponding plurality of projections cooperating with said plurality of openings in said ends positioned in said recess for filling said recess and for mechanically holding said ends together, a closure member, said flange forming a stop for said closure member, and a cover having a peripheral tongue disposed for overlapping engagement with said peripheral tongue of said extruded member.

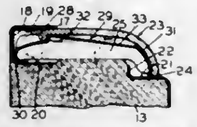
**2,644,603**

## BREAKER STRIP CONSTRUCTION

**Lester H. Hinkel and John R. Prosek, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey**

**Application January 14, 1950, Serial No. 138,604**
**2 Claims. (Cl. 220—9)**

1. In a refrigerator cabinet, spaced inner and outer walls having edge portions bent inwardly toward each other, said edge portions disposed in different planes, heat insulating material disposed between said walls and terminating in approximately the plane of the bent-in edge portion nearest the back of said cabinet, a transversely curved breaker strip member bridging the space between said inner and outer walls and enclosing a space between said breaker strip and said insulating material, said breaker strip member provided with longitudinally extending ribs



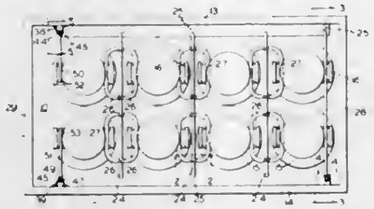
and transversely extending ribs which extend therefrom into contact with said insulating material, said transversely extending ribs arranged in spaced apart pairs, said longitudinally extending ribs connecting said pairs, said space being divided into separate air pockets by said ribs so that air circulation in said space is prevented, and detachable resilient members positioned between each pair of said transversely extending ribs for securing the breaker strip member to said edge portions.

**2,644,604**

## MILK COOLER

**Victor A. Haines, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey**

**Application December 6, 1949, Serial No. 131,415**
**6 Claims. (Cl. 220—15)**



1. A milk cooler comprising a receptacle having a cooling liquid therein adapted to receive a plurality of milk cans positioned in longitudinally spaced relation, said cans being of the type having a pair of outwardly projecting, diametrically disposed handles; and means for retaining said cans in a substantially submerged and upright condition against the buoyant effect of the cooling liquid when the cans are empty, said means comprising a plurality of rods extending across said receptacle and secured thereto, said rods being transversely spaced with respect to each other and positioned between said cans adjacent diametrically opposite sides of said cans, each rod having a plurality of U-shaped members pivotally mounted thereon adapted to loop over the handles of the cans adjacent to the rod.

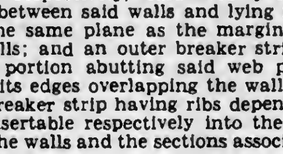
**2,644,605**

## BREAKER STRIP CONSTRUCTION

**John S. Palmer, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey**

**Application February 28, 1950, Serial No. 146,652**
**4 Claims. (Cl. 220—15)**

1. In a refrigerator cabinet having spaced inner and outer walls provided with adjacent edge portions, channel-shaped brackets positioned adjacent said edge portions, a support member connecting said brackets, a breaker strip bridging between said walls, said breaker strip having longitudinal ribs formed on one side, said ribs spaced



inwardly from the breaker strip edges, said ribs being relatively thin and terminating into nubs, said ribs extending into said brackets, and a sealing material disposed in said brackets, said nubs embedded in said sealing material.

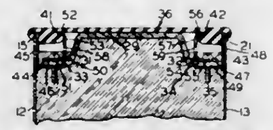


**2,644,606**

## BREAKER STRIP CONSTRUCTION

**John J. Voda and Ralph E. Wallenbrock, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey**

**Application February 28, 1950, Serial No. 146,658**
**9 Claims. (Cl. 220—15)**



7. In a refrigerator cabinet, the combination comprising, a pair of spaced walls having marginal edges terminating substantially in a common plane; a pair of supporting flanges integrally formed and associated with said walls respectively, each of said flanges extending inwardly and being spaced from said common plane; an L-shaped bracket secured to each supporting flange having a section thereof spaced inwardly and disposed parallel to its respective wall, said sections having edges terminating in substantially the same plane as the marginal edges of walls; means extending transversely between said walls for maintaining said walls in spaced-apart relationship, said means including a channel-shaped inner breaker strip having a pair of leg portions interconnected by a web portion, the leg portions having flanges extending outwardly therefrom fastened to said supporting flanges, respectively, said web portion being spaced between said walls and lying in substantially the same plane as the marginal edges of said walls; and an outer breaker strip having a central portion abutting said web portion and having its edges overlapping the wall edges, said outer breaker strip having ribs depending therefrom insertable respectively into the spaces between the walls and the sections associated therewith.

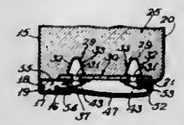
**2,644,607**

## BREAKER STRIP CONSTRUCTION

**Lester H. Hinkel, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey**

**Application July 14, 1951, Serial No. 236,720**
**9 Claims. (Cl. 220—15)**

1. In a refrigerator cabinet having a wall with a slot therein to which a breaker strip with a flange thereon is to be mounted, means for mounting said breaker strip to said wall comprising a clip formed of a resilient strip material, said material formed with a compressible wedge-shaped lower portion having the end of the wedge partially open, a neck comprising channel-shaped portions of said strip material extending upwardly from each side of the end of the wedge whereby said channel-shaped portions cooperate when said wedge is compressed to form a rectangularly-shaped neck, leg members comprising a portion of said strip material formed to extend at a right angle from each of said channel-shaped portions, a flange comprising a portion of said strip material on the end of one of said leg members projecting in a downward



direction, an arm formed of a portion of said strip material on the end of the other of said leg members and positioned to form an acute angle with said leg members, and a second flange comprising a portion of said strip material on the end of said arm projecting in a downward direction, whereby said lower portion of said clip is insertable through said slot, whereby said lower portion, said neck and said leg members will maintain said clip mounted in said wall, and whereby said flange of said breaker strip is projectible under said arm, whereby said arm will maintain said breaker strip mounted to said wall.

**2,644,608**

## SPOUT CAP FOR LIGHTER FUEL CONTAINERS

**Henry Y. Lee, Honolulu, Territory of Hawaii**

**Application May 7, 1951, Serial No. 224,890**
**1 Claim. (Cl. 220—39)**



A closure for the discharge spout of a lighter fluid container comprising a body having a socket adapted to receive the discharge end of the discharge spout of a lighter fluid container, a substantially circular guard carried by the body and extending outwardly therefrom, and a spout end perforating pin carried by the body and lying adjacent and within the perimeter of the guard and adapted to be turned outwardly and away from said guard during the perforating of the end of the spout.

**2,644,609**

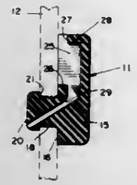
## VENT PLUG

**Curtis D. Foss, Bell, Calif.**

**Application March 20, 1950, Serial No. 150,615**
**2 Claims. (Cl. 220—44)**

1. In combination with a substantially vertical wall having a hole therein, a vent plug comprising a body presenting a flat wall-engaging surface disposed against one side of the wall, said body having a cavity in said wall-engaging surface extending through the upper end of the body, a neck projecting from said body beyond said surface substantially perpendicularly thereto and through the hole in the wall, and a head on said neck projecting laterally beyond the neck and engaging the other side of said wall, said plug

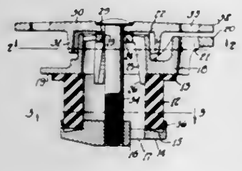
having an inclined passage extending from the lower portion of said head upwardly through the



interior of said neck and said body to the cavity therein.

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**2,644,610**
**AIR VENT CAP FOR OIL DRUMS**
**Worth H. Work, Portland, Oreg.**
**Application October 24, 1950, Serial No. 191,756**
**2 Claims. (Cl. 220—44)**

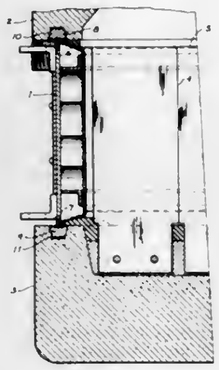


1. An air vent cap for oil drums consisting of a resilient cylindrical sleeve having an outturned flange at one end and having a washer at the other end extending part way into said sleeve and having an upturned flange around the outer rim receiving said sleeve, said washer having vent openings therein, a cap on said sleeve having an upturned vented hub, said hub having ribs projecting into said sleeve, a hand wheel having a downturned flange spaced from and encircling said hub, a screw secured to said hand wheel and threaded into said washer, and means for locking said hand wheel against rotation with relation to said cap.

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**2,644,611**
**MEANS FOR SEALING JOINTS IN PRESSURE CONTAINERS**
**Kenneth E. Stuart, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York**
**Application February 28, 1948, Serial No. 11,933**
**2 Claims. (Cl. 220—46)**

2. In a pressure container for retaining corrosive liquids characterized by having a metal wall having upper and lower rims of a width limited by the thickness of said wall and lying in flat boundary planes, and by top and bottom closure members having flat surfaces adapted tn make joints with said rims; means for sealing said joints comprising a groove in the joint-forming surface of one of said members, said groove being of substantially trapezoidal cross-section, with outwardly divergent sides, making an acute angle with each other, and a resilient gasket in said groove, said gasket having a trapezoidal cross-section similar to that of said groove and a least width less than the greatest width of said groove but somewhat greater than a least width of said groove, the joint-forming surface of the other of said members being narrower than the greatest width of said groove and adapted to bear against and seat itself on flat outer surface of said gasket, the



bearing pressure against said gasket being supported substantially entirely by resultant wedging pressure by the sides of said gasket and by the sides of said groove.

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**2,644,612**
**STORAGE TANK FACILITY**
**John T. Roberts, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application March 20, 1951, Serial No. 216,631**
**6 Claims. (Cl. 220—86)**



1. In a storage vessel for use with liquids which tend to vaporize and form vapors or which contain dissolved or entrained vapors or gases therein comprising in combination a shell, an open-top trough positioned in the upper part of said shell, said trough being electrically grounded to said shell, a liquid inlet nozzle discharging into and toward the bottom of said trough, the discharge of said nozzle being no farther from the trough bottom than a distance equivalent to the average height of liquid within said trough at minimum liquid flow conditions, at least one enclosed downcomer electrically grounded to said trough and adapted to convey liquid from within said trough to a position near the bottom of said shell, said downcomer deviating from the vertical so as to maintain constant contact between liquid within said downcomer and the downcomer itself, and an outlet connection piercing said vessel at a position above the lower end of said downcomer.

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**2,644,613**
**COMPRESSIBLE MEANS FOR COLLAPSIBLE TUBES**
**Joseph Pepin, Chicago, Ill., assignor to Fran Seech, Los Angeles, Calif.**
**Application May 26, 1948, Serial No. 29,220**
**8 Claims. (Cl. 222—103)**

1. In a lip rouge applicator, a casing, a compressible container adapted for containing rouge



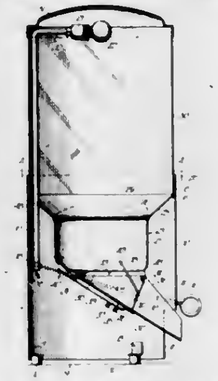
mounted in said casing, and having a discharge end; yielding means in said casing bearing against said container, said casing having an opening, a trigger mounted in said opening and movable



thru said opening for engaging said yielding means, said trigger having an outer wedge-shaped edge, and a cover for said casing adapted for telescoping over said trigger for actuating the same.

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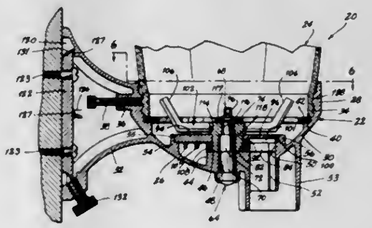
**2,644,614**
**POPCORN DISPENSER**
**Kalman Tanko and William L. Slominski, Chicago, Ill.**
**Application July 1, 1949, Serial No. 102,528**
**2 Claims. (Cl. 222—146)**



2. In a popcorn dispensing device, the combination of a base internally flanged adjacent its upper marginal edge to define an upwardly facing shoulder, and having a first opening through one side near the bottom edge, a cup member having two vertically spaced vertical walls of different sectional dimensions interconnected by a tapering wall rounded into the contour of the wall of the smaller dimension, said cup member resting on said shoulder at the upper marginal edge of said tapering wall with the wall of larger dimension telescoping in the upper marginal edge of the base in sealed relationship, said base defining an area of static air around said cup member proximate the smaller and the tapering walls, said cup member having a second opening in the bottom thereof, a chute supported below the second opening and extending outwardly through said first opening, a gate pivotally mounted within said chute, means for operating said gate, a heater disposed below said chute, a transparent cylindrical member telescoping within the larger of said cylindrical walls of the cup member and resting on said tapered wall, and a removable closure for the top of said transparent cylindrical member.

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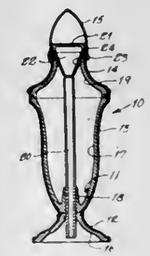
**2,644,615**
**SOAP DISPENSER**
**George H. Packwood, Jr., St. Louis, Mo.**
**Application November 4, 1949, Serial No. 125,489**
**11 Claims. (Cl. 222—181)**



1. In a dispenser, a cup-like base having a discharge opening in the lower part thereof, a baffle covering the opening but spaced thereabove to provide an egress slot between the baffle and the wall of the opening, a metering member movable transversely within said base from outside the baffle to beneath it to convey material to the discharge opening, and an agitating means connected with the metering member and movable therewith, the agitating means projecting downwardly into the open portion of said base adjacent the metering member to disturb the material adjacent thereto, said agitating means extending above and below said metering member.

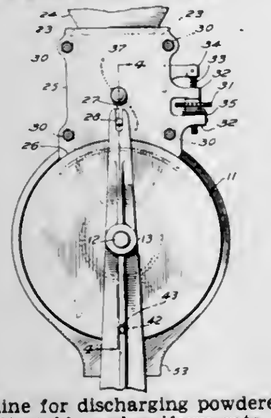
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**2,644,616**
**SALTCELLAR**
**Norman Albert Gordon, Oklahoma City, Okla.**
**Application April 18, 1951, Serial No. 221,707**
**2 Claims. (Cl. 222—183)**



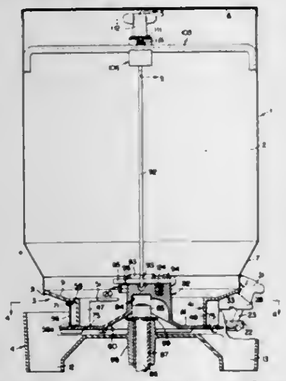
1. A saltcellar which comprises an inner shell of material resistant to salt, said shell comprising a compartment for salt completely closed at its upper end and having a bottom discharge, an open ended tube extending from the upper end of said compartment through the bottom of said compartment, means to direct salt from the upper part of said compartment into said tube, and an outer shell of metal enclosing the outer surface of said inner shell and out of contact with the interior of said inner shell and the salt therein.

**2,644,617**
## VACUUM POWDER FEEDER
**Frank E. Stirn, Pearl River, and Arthur S. Taylor, Spring Valley, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application June 2, 1948, Serial No. 30,694**
**6 Claims. (Cl. 222—193)**



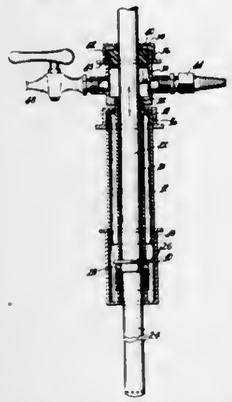
1. A machine for discharging powdered material at an adjustable and uniform rate comprising a traveling trough of substantially uniform but adjustable cross section, means for causing said trough to travel at a uniform but adjustable rate, a bottom portion of said trough of a foraminous material, vacuum means acting through said foraminous material for compacting a powdered material into said trough during a portion of said travel, gaseous pressure means for ejecting said material from said trough during a second portion of the travel of said trough, a hopper placed in juxtaposition to said trough and adjustable in relation thereto, a doctor blade portion of said hopper, whereby a portion of said hopper will function as a doctor blade, thereby striking off the contents of said trough at a uniform but adjustable height, and micrometer adjustment means whereby the position of said hopper may be varied.

**2,644,618**
## FERTILIZER DISTRIBUTOR
**William P. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application April 15, 1948, Serial No. 21,287**
**11 Claims. (Cl. 222—242)**



3. In a fertilizer distributor, a hopper, a rotatable feed plate at the lower end of said hopper, an agitator carried by said feed plate in driving engagement therewith, a member connected with said plate for holding the agitator in driving engagement with said plate, and a connection between said member and said hopper for retaining the plate against the lower end of said hopper.

**2,644,619**
## BEER TAP
**John H. Brown, Springfield, Mass.**
**Application June 17, 1947, Serial No. 755,190**
**1 Claim. (Cl. 222—397)**



A beer barrel tap for association with a source of air pressure comprising in combination, a bushing for securement to the barrel having an annular outer wall and an annular inner wall spaced inwardly thereof below the upper plane of the outer wall, an annular open seat secured to the inner wall of said bushing, a hollow compression tube having a lower end portion seatable upon said seat and an open upper end portion upwardly thereof, a casing disposed around said tube and having a lower end threadedly engageable with said bushing, means for adjusting said tube relative to said casing and bushing, a beer rod being disposed in spaced relation within said compression tube and being slidable relative thereto into and out of the barrel, an enclosed air chamber threadedly engageable with the upper end of said tube and having a central opening into the lower wall thereof affording communication with said tube and having a central opening in the upper wall thereof for reception of said beer rod extendable therethrough, adjustable sealing means within said air chamber and around said beer rod for retaining said rod relative to the tap and the barrel, an air inlet in a wall of said air chamber affording communication between said air chamber and the source of air pressure, and a valve operated vent separate from said air inlet and disposed in a wall of said air chamber for relieving air pressure in the barrel and said air chamber.

**2,644,620**
## STAND FOR DRESS FORMS AND THE LIKE
**Ralph F. Palmer, Montclair, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**
**Application February 23, 1950, Serial No. 145,801**
**10 Claims. (Cl. 223—68)**

1. In a stand for dress-forms and the like having a base, and a vertically disposed standard rising from said base; the combination therewith

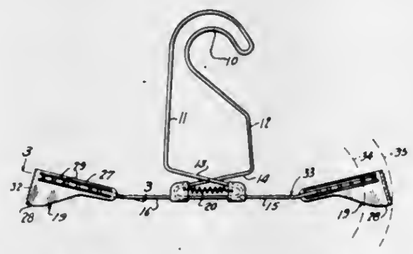


of a rigid neck-frame supported for universal movement on the upper end of said standard and adapted to fit into the neck portion of a dress-form, said neck-frame having substantially the form of a truncated cone which has been slabbed along a plane extending from a point tangential to the small upper circular portion thereof to a



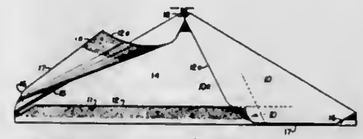
line defining a chord of the large lower circular portion thereof so as to facilitate the passage about said neck-frame of a hollow dress-form with a waist portion in the shape of an ellipse having major and minor axes which are respectively of greater and less length than the diameter of the lower circular portion of said truncated cone.

**2,644,621**
## SKIRT AND TROUSERS HANGER
**Frank J. Urban, Toledo, Ohio, assignor to Magic Hanger, Inc., Toledo, Ohio, a corporation of Ohio**
**Application July 24, 1952, Serial No. 300,609**
**5 Claims. (Cl. 223—95)**



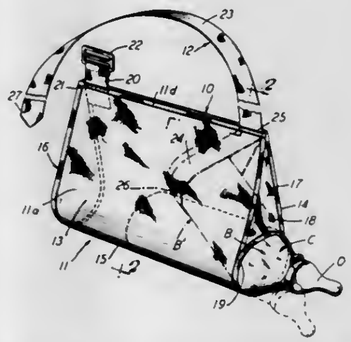
1. A hanger for skirts and the like comprising, in combination, a hook, laterafily spaced downwardly extending body members depending from said hook, cross arms on said spaced body members which arms are oppositely directed inwardly in close parallel planes, support arms extending outwardly oppositely from the lower ends of said cross arms, said support arms having closely parallel sections adjacent their respective cross arms and outwardly extending sections terminating in upwardly inclined generally co-planar end sections, a garment contactor on the end of each of said end sections and a spring connected to both of said cross arms and tending to urge said support arms outwardly.

**2,644,622**
## COVER FOR GARMENT HANGERS
**Myron B. Gwinn and Donald E. Hopkin, Denver, Colo.**
**Application May 11, 1950, Serial No. 161,324**
**3 Claims. (Cl. 223—98)**



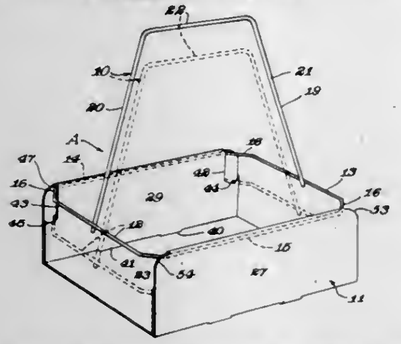
1. A blank for formation of a cover for a conventional wire garment hanger having a horizontal bar and shoulder bars upwardly converging therefrom, said blank having parallel top and bottom edges, a marginal coating of adhesive along each of said edges but on respectively opposite faces of the blank, the adhesive having the characteristic of adhering to a like coated surface but of non-adherence to an uncoated surface, a body portion of said blank having an area at least as large as the area of said hanger within the outer lines of said bars, one of said coated margins being adapted to fold upwardly over said horizontal bar and thereby outwardly expose said coated margin, the upper corner portions of said blank being adapted to fold downwardly over said shoulder bars and thereby to bring portions of said oppositely coated margin into engaging contact with said outwardly exposed coated margin, the body of said blank, within said horizontal bar and said shoulder bars, being uncoated whereby to avoid adherence of the folded portions of said blank with the body portion thereof.

**2,644,623**
## NURSING BOTTLE HOLDER
**Gwendolyn S. White, Darien, Conn.**
**Application February 28, 1950, Serial No. 146,680**
**10 Claims. (Cl. 224—5)**



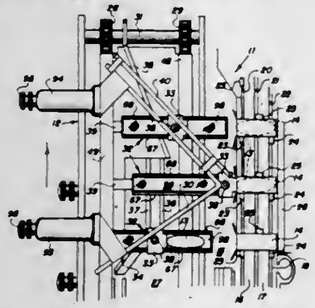
1. A nursing bottle holder comprising a sling member open at one end for loosely receiving a nursing bottle and having a bottom inclined downwardly towards the other end thereof, a restricted opening formed through said other end adjacent the bottom thereof through which the neck and nipple of a bottle resting on said inclined bottom may project, and means in said sling member spaced upwardly from said bottom engageable with the backward end of the bottle for further tilting the bottle towards said restricted opening.

**2,644,624**
**BOTTLE CARRIER**
**Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota**
**Application August 5, 1948, Serial No. 42,660**
**6 Claims. (Cl. 224—48)**



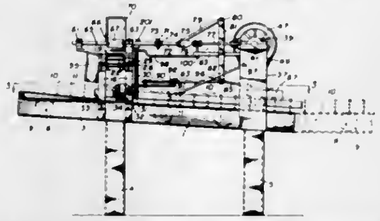
1. A bottle carrier including a generally rectangular frame, a handle connecting opposite ends of said frame, a paperboard body connecting opposite sides of said frame, said paperboard body including a pair of generally parallel side walls and a bottom panel connected thereto, and inner side walls foldably connected to the upper edges of said first named side walls and folded to enclose the sides of the frame, and notches at opposite ends of said side walls through which the ends of the frame extend, said notches defining a shoulder for limiting slidable movement of the frame sides between said first named side walls and said inner side walls.

**2,644,625**
**CARTON LOADING DEVICE**
**John F. Currivan, Hudson, N. Y., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware**
**Application July 27, 1949, Serial No. 107,121**
**7 Claims. (Cl. 226—2)**



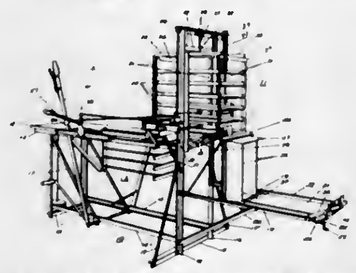
1. In a cartoning machine, a first conveyor; a second conveyor; means for driving said conveyors; said first and second conveyors being relatively disposed to convey merchandise and cartons respectively in such relative alignment that the merchandise may be shifted transversely from said first conveyor for insertion into the cartons on said second conveyor; a series of open topped receptacles on said first conveyor arranged transversely thereof and each having an open end in alignment with a carton on said second conveyor; means providing a movable bottom in each receptacle for supporting an article in each receptacle; and means responsive to the movement of said first conveyor for shifting said movable bottom toward said second conveyor to transfer the articles from said receptacles to the cartons on said second conveyor.

**2,644,626**
**AUTOMATIC CRATE LOADING MACHINE**
**Edwin H. Britt, Raleigh, N. C., assignor, by mesne assignments, to Harris Foundry and Machine Company, Cordele, Ga., a corporation of Georgia**
**Application April 16, 1947, Serial No. 741,788**
**6 Claims. (Cl. 226—14)**



1. In a crate loading machine, a conveyor for moving articles to a loading station, crate advancing means to move empty crates to said loading station in position to receive articles from said conveyor, reciprocable means movable transversely across said conveyor at said loading station to move articles from said conveyor to a crate, an oscillatable lever pivoted intermediate its ends, one end of said lever overlying said conveyor at said loading station to be engaged and moved by an article thereon, driving means for said reciprocable means, said driving means including a normally disengaged one-revolution clutch mechanism, the other end of said lever being connected to said clutch whereby actuation of said lever by an article on said conveyor will effect a single cycle of operation of said reciprocable means.

**2,644,627**
**CIGARETTE RECASER WITH ELEVATOR UNIT AND PUSHER MECHANISM**
**Park L. Newbold, Cedar Rapids, Iowa**
**Application March 30, 1948, Serial No. 17,952**
**2 Claims. (Cl. 226—16)**

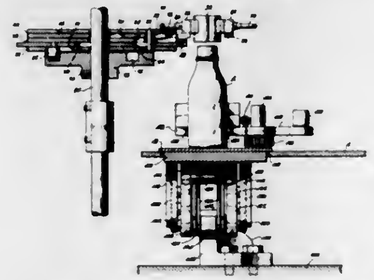


1. In a cigarette recasing device the combination of a frame, an elevator unit consisting of a series of superposed trays adapted to move vertically between elongated end members of said frame, means for actuating and balancing same, a platform placed in line with the open ends of the trays when in down position, an adjustable tapered box-like guide attached to said platform, an assembly composed of twin T-shaped pusher arms secured together by a cross bar and placed



adjacent to the elevator, an actuating mechanism by which the T-shaped arms reciprocate laterally a predetermined distance to impel cartons into rows upon the elevator trays, a pushing assembly composed of a series of T-shaped pusher arms placed within the main frame side members and adapted to reciprocate longitudinally between the elevator tray members to eject said cartons from the trays into a receiving case, means for actuating the pushing assembly, an adjustable tension guide member through which each carton is propelled by a metering device to the trays, and a spring controlled safety outlet member placed in line with said tension guide to permit continuing movement of entering cartons in the event lateral action is interrupted.

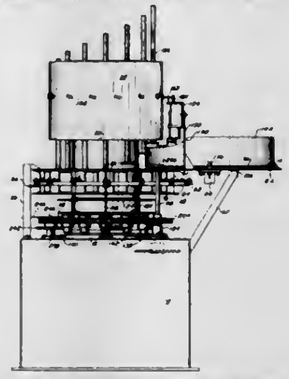
**2,644,628**
**BANDING MACHINE**
**Coley Walton Gunter and James Walter Howe, Jr., Durham, N. C., assignors to Wright Machinery Company, Durham, N. C., a corporation of North Carolina**
**Application December 27, 1951, Serial No. 263,624**
**5 Claims. (Cl. 226—80)**



1. In a machine for applying tubular bands to an article; band spreading and holding means comprising, a pair of elongated superposed plates, means guiding said plates for longitudinal reciprocation along parallel paths, one of said plates having a notch in one longitudinal edge thereof adjacent to but spaced from one end thereof, a suction head on said one end adjacent said notch, a second suction head on the end of the other plate adjacent said notch, the path of reciprocation of said second suction head being at all times within the confines of said notch whereby said notch provides an unobstructed passageway for the article from between said suction heads toward and extending outwardly of an edge of said plates.

**2,644,629**
**CAN FILLING MACHINE**
**Orville D. Velie, Bellingham, Wash.; Orrie W. Norton, executor of said Orville D. Velie, deceased, assignor, by mesne assignments, to James Q. Leavitt Company, a corporation of Washington**
**Application May 8, 1946, Serial No. 668,238**
**8 Claims. (Cl. 226—96)**

1. In apparatus for filling containers, a charging station and a filling station; a revolubly mounted turret; a plurality of circumferentially spaced charge-receiving chambers mounted on said turret for movement therewith between said charging and filling stations; means at the charging station, including a plurality of measuring chambers mounted to rotate about a common axis spaced from and parallel to the turret axis to successively position said measuring chambers above and in coaxial relation with said charge receiving chambers; charge delivering means, including a movable member common to all measuring chambers to eject the charges



therefrom into said charge receiving chambers; means for actuating said member in timed relation to the rotation of the turret; and means operatively controlled by the turret for ejecting the material from said charge-receiving chambers into the containers at the filling station.

**2,644,630**
**LIQUID DELIVERY SPOUT ASSEMBLY**
**Simon E. Schroeder, Oshkosh, Wis.**
**Application January 13, 1951, Serial No. 205,931**
**10 Claims. (Cl. 226—123)**

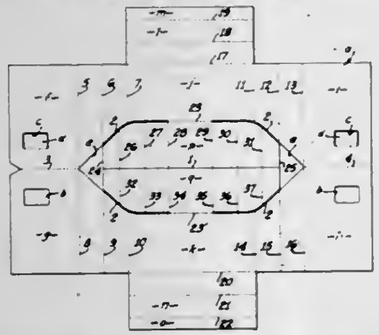


1. A liquid delivery spout assembly adapted to be detachably mounted on a delivery or supply can for dispensing the contents of the can into a receiving receptacle, comprising a cap for detachably mounting the assembly on the delivery opening of the can, telescoping sleeve members carried by the cap with the inner of these members fixed to the cap to provide a pouring spout and the outer member longitudinally slidable on the spout, a resilient covering affixed to the outer sleeve member to provide a flexible, sealing contact with the inlet of the receptacle, an elongated air vent tube extending through the inner sleeve member and having one end secured to and carried by the outer sleeve and opening to the exterior thereof and its other end projecting into the can, a valve member carried by said tube intermediate its ends for closing the passage through the pouring spout, and an air valve

member carried at the other end of the vent tube for controlling the passage of air from the tank to be filled to the interior of the supply can whereby displacement of the outer sleeve member and the air vent tube with respect to the pouring spout opens the valve members.

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**2,644,631**
**DISPOSABLE BOTTLE CONTAINER**
**Noel A. Petter, Los Angeles, Calif., assignor to Standard Paper Box Corp., Los Angeles, Calif., a corporation of Delaware**
**Application April 30, 1949, Serial No. 90,675**
**9 Claims. (Cl. 229—28)**



1. A container for packaging a plurality of objects, comprising a blank of sheet material cut and creased to form two compartments connected to each other along their inner and upper margins, each such compartment consisting of an inner side wall formed by two partially overlapping sections of said blank, two end walls connected to said inner wall, an outer wall connected to each of said end walls, and a bottom wall connected to said outer wall and having connected thereto a gluing tab which is secured to the inner side panel, a plurality of cells in each of said compartments, each of said cells being formed by a fold section conjoined with the upper margin of the outer wall and foldably, inwardly and downwardly between the said inner and outer side walls, a partition wall conjoined with said fold section and a gluing tab conjoined with said partition wall, said partition gluing tab being secured to the said inner side walls, a portion of said partition wall being of greater vertical height than the difference in vertical heights between the said inner wall and the said outer wall, said partition walls, bottom walls and end walls having median scores for placing and gluing tabs in position for simultaneous cementation to said inner side walls, the overlapping sections of said inner walls constituting cooperating gluing tabs.

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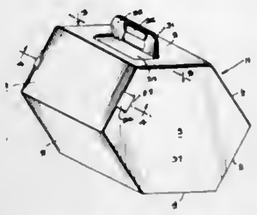
**2,644,632**
**BOX**
**Clarence Lloyd Claff, Randolph, Mass., assignor to Norfolk Paper Company, Inc., Randolph, Mass., a corporation of Massachusetts**
**Application May 1, 1947, Serial No. 745,208**
**1 Claim. (Cl. 229—34)**

A box of cardboard or the like comprising a bottom portion with side wings and end wings integral therewith, the end wings having end extensions thereon, the side wings having corner lap extensions turned inwardly in their entirety across the box ends with their free ends adjacent one another to form substantially continuous inner end walls at the ends of the box, and the end wings being turned upwardly to form the outer end walls of the box with said end extensions being folded over the top edges of the inner walls and downwardly against the inner faces thereof, the end wings and end extensions being adhesively secured to the inner end walls, one end wing, having an opening therethrough intermediate the top edge and the bottom of said box end, said one end wing and its folded over end extension being cut away in the line of the fold to form a transverse slot extending below the top edge of the inner wall of the box end and terminating above said opening, the contacting faces of the inner and outer end walls adjacent said opening and between said opening and said transverse slot being free from adhesive and unattached to one another to form a pocket to receive a removable tag passed through the transverse slot and into register with said opening in the outer end wall.



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**2,644,633**
**PAPERBOARD BOX CONSTRUCTION (HEXAGONAL)**
**Charles A. Stopper, Camden, N. J., assignor to Diamond Paper & Box Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application January 8, 1949, Serial No. 69,917**
**3 Claims. (Cl. 229—37)**



1. An integral blank of foldable sheet material for forming a box in the shape of a hexagonal prism comprising a central body portion of generally rectangular shape transversely scored along spaced parallel lines to provide a plurality of panel sections of equal size adapted to be angularly related to form the side walls of the box, the opposite endmost panel sections being adapted for disposition in overlapping relation to conjointly form one of said side walls of the box, hexagonal end closure members for the box extending oppositely from each of two said panel sections which are spaced from one another by an intermediate pair of panel sections, the hexagonal end closure members extending oppositely from one of said side wall panel sections being respectively adapted to overlie the corresponding members extending oppositely from the other of said side wall panel sections whereby each end closure for the box is formed of a pair of said members disposed in overlapping relation, one member of each last-mentioned pair thereof being provided with a slit adjacent its freely extending outer extremity and the other member of said pair thereof being provided adjacent its hinged inner extremity with a tongue element adapted for projection through the slit aforesaid to releasably interlock the pair of overlapping members to provide a double-paneled end closure wall for the box.

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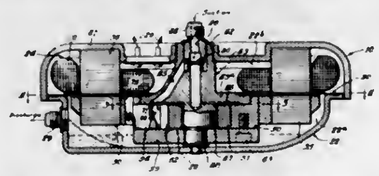
**2,644,634**
**SELF-CONTAINED ENVELOPE OPENER AND CONTENTS EJECTOR**
**Geza Weitzner, New York, N. Y.**
**Application April 22, 1950, Serial No. 157,506**
**1 Claim. (Cl. 229—86)**



An envelope comprising an envelope body, sealed at one end thereby shortening the cavity in the envelope body, a flap at the other end thereof to be folded over the envelope body, a tab weakly glued to the inner surface of said flap, said tab including a strong mucilage layer on the outer free surface thereof, a draw string secured to said tab and extending through an aperture in said flap adjacent the envelope body and then around the outer surface of said flap adjacent where the same is secured to the body of the envelope and then in a notch in one corner adjacent the edge of the body of the envelope and the flap point of connection and then to the inner side of said flap along the point of connection of the flap and body of the envelope to a notch diametrically removed from the first mentioned notch between the tab and body of the envelope and then to the outside of the envelope body to overlay the flap and be secured thereto whereby, when the flap is sealed, the tab on the flap will adhere to an inserted article in the envelope by the strong mucilage surface on the flap and will act to withdraw the article from the envelope when the draw string is actuated to tear open the envelope flap.

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**2,644,635**
**COMPRESSOR**
**Leland K. Warrick, Muskegon Heights, and Frank E. La Flame, Spring Lake, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**
**Application October 20, 1950, Serial No. 191,277**
**7 Claims. (Cl. 230—139)**

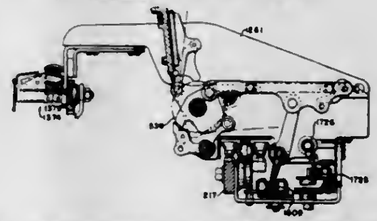


1. A combination motor-compressor unit comprising a housing divided by a partition wall into two compartments one of which being hermetically sealed and the other being defined by a removable bell-shaped cover, said motor comprising a stator and a motor rotor, said compressor comprising a stationary eccentric, a rotor mounted on said eccentric for relative rotation therebetween, a compression chamber, a rotatable cylinder eccentrically mounted in respect to said motor and surrounding said rotor and eccentric to define said compression chamber, an inlet leading to and an outlet leading from said compression chamber, and a divider located between said inlet and outlet carried by said cylinder for reciprocation in said compression chamber, said motor rotor being fixedly secured to said cylinder of the compressor and said cylinder being coaxially mounted for rotation responsive to the rotative forces of the motor rotor, and the elements of said compressor including the motor rotor being disposed in the hermetically sealed compartment while the stator is disposed in the other of said compartments with the partition wall being disposed between the stator and the motor rotor.



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**2,644,636**
**CONTROL MECHANISM FOR ACCOUNTING MACHINES**
**Raymond A. Christian and Jesse R. Ganger, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Original application December 6, 1947, Serial No. 790,032. Divided and this application May 9, 1951, Serial No. 225,311**
**14 Claims. (Cl. 235—60.47)**



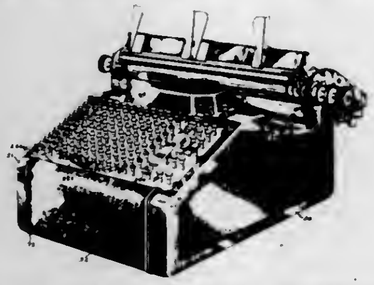
14. In a machine of the class described, having a traveling carriage movable to various columnar positions, means for controlling the movement of said carriage to said various columnar positions, and operating means for imparting cycles of operation to the machine, the combination of a plurality of graduated abutment members mounted on the traveling carriage in relation to the various columnar positions thereof; means operated by the operating means for sensing the abutment members during each cycle of operation of the machine; means including a slide for controlling a particular function of the machine; means operating during each cycle of operation of the machine to urge the slide from an ineffective position to any one of a plurality of effective positions; a plurality of graduated abutments on the slide corresponding to the graduated abutment members on the traveling carriage; and a slide stop element operatively connected to the sensing means and selectively positioned by the graduated abutment members on the traveling carriage into the path of the corresponding graduated abutments on the slide to stop said slide in any selected one of its effective positions to cause said slide to control said particular function of the machine.

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**2,644,637**
**ACCOUNTING MACHINE**
**Thomas M. Butler, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan**
**Original application April 7, 1949, Serial No. 85,971. Divided and this application November 21, 1950, Serial No. 196,844**
**11 Claims. (Cl. 235—60.49)**

1. A calculating machine having power driving means, a plurality of groups of depressible keys,

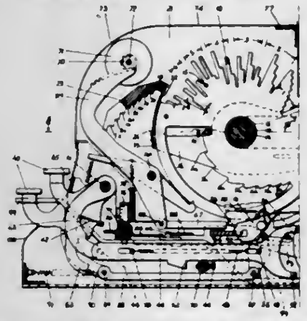
a control means movable toward an operating position to cause said power means to drive the machine through a cycle of operation but normally in a non-operating position, means to move said control means to operating position, means controlled by the keys of one of said groups to cause said moving means to act, latching means for each of said groups of keys normally in key-latching position and movable in one direction



from normal position by partial depressions of their keys, and back to normal upon full depressions of their keys, said latching means being also movable in another direction to lock the keys, means to move the key-latching means to locking position, and means controlled by the last-named means to limit movement of said control means to a position short of operating position when any key-latching means is unable to move to key-locking position.

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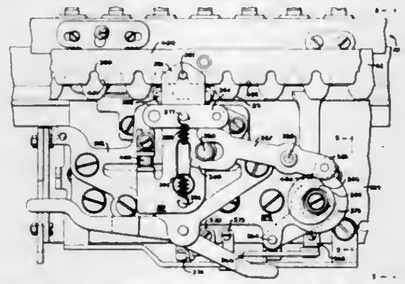
**2,644,638**
**CALCULATING MACHINE**
**Daniel Broido, Barnet, England**
**Application March 29, 1951, Serial No. 218,107**
**In Great Britain April 4, 1950**
**12 Claims. (Cl. 235—61)**



1. In a calculating machine, at least one set of pairs of stops representing the units and the tens of partial products, the said pairs of stops being equidistantly spaced in a single direction and arranged in groups each associated with a digit of a predetermined sequence of digits and comprising the stops representing the products of the respective digit multiplied by itself and by the following digits, if any, of the sequence, abutments on said set associated respectively with said groups, the spacing of said abutments in the said direction being proportionate to the number of partial product stops in the respective groups, a bar having steps equidistantly spaced in the said direction and equal in number to the number of said groups, a pair of locators selectively settable relatively to the said abutments and to the said bar according to the digits of the multiplicand and the multiplier respectively, and driving means for moving the said set of partial product stops in the said single direction according to the combined setting of the two locators.

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**2,644,639**
**CARRIAGE SHIFTING MECHANISM**
**Nathaniel F. Hawthorne, Alameda, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California**
**Application August 15, 1950, Serial No. 179,479**
**9 Claims. (Cl. 235—63)**



1. In a calculating machine having a frame, a shiftable register carriage, means for shifting the said carriage including a shift rack mounted on the said carriage and a rotatable gear assembly mounted on said frame and meshing with said rack, and cyclically operable power means, connecting means for driving the said gear assembly and the said carriage selectively in either direction by said power means, a control device for controlling operation of said connecting means, a centralizing mechanism for the said carriage including an ordinally slotted stop plate on the said carriage and a coacting stopping member on the said frame, resilient means for biasing the said stopping member into carriage centralizing engagement with the said stop plate, means for disabling the said centralizing mechanism by moving the said slide out of the range of the said stop plate, and means controlled by said control device for connecting said disabling means to said power means immediately prior to operation of said connecting means to effect shifting of said carriage.

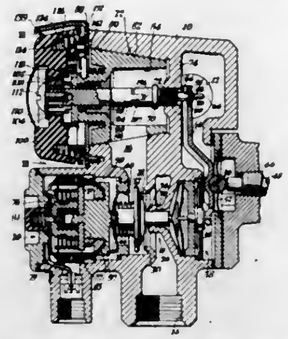
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**2,644,640**
**THERMOSTATIC CONTROL DEVICE**
**Samuel G. Eskin, Pittsburgh, Pa., and Adele M. Arkelyan, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware**
**Application June 8, 1951, Serial No. 230,612**
**15 Claims. (Cl. 236—21)**

3. In a control device for fluid fuel burners having a thermostatically controlled valve for controlling the supply of fuel to the burner and a rotatable adjusting element for setting the temperature to which the thermostatically controlled valve will respond, the combination of main shut-off valve means having a valve member rotatable between positions for controlling the flow of fuel to the burner, a rotatable control element operatively connected to the adjusting element for transmitting rotational movement thereto, clutch means operatively associated with said shut-off valve member and said control element, and means for sequentially conditioning said clutch means to establish and terminate a torque transmitting relation between said control element and said shut-off valve member upon



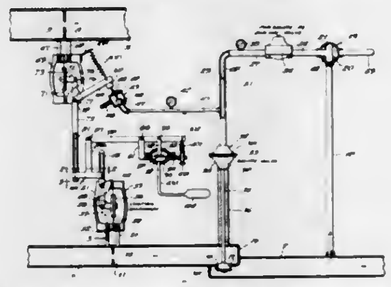
rotation of said control element, said control element being free to rotate relative to said valve



member after termination of said torque transmitting relation.

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**2,644,641**
**PROPORTIONING CONTROL SYSTEM**
**Alick Clarkson, Itasca, Ill., assignor of one-half to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware**
**Application June 1, 1950, Serial No. 165,428**
**9 Claims. (Cl. 236—23)**

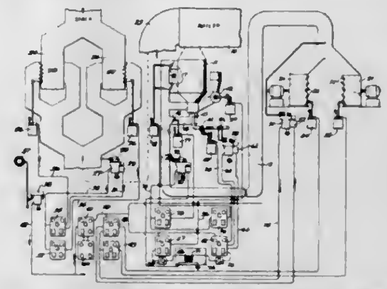


1. A boiler control system for proportionately controlling the delivery of fluid fuel to the fire chamber of the boiler in relation to the delivery of feed water to the boiler comprising a conduit for delivering said fuel, a conduit for delivering said feed water, inter-connected pressure operated means responsive to variations in the flow of feed water through its conduit in relation to the flow of fuel through its conduit, a fluid pressure operated admission valve for controlling the delivery of fuel through the fuel conduit to the fire chamber of the boiler, and means actuated by said inter-connected pressure operated means for varying the fluid pressure for operating said fuel admission valve.

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**2,644,642**
**CONTROL SYSTEM FOR A PLURALITY OF RELATED VARIABLES**
**Charles H. Smoot, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois**
**Application May 18, 1949, Serial No. 94,010**
**8 Claims. (Cl. 236—26)**

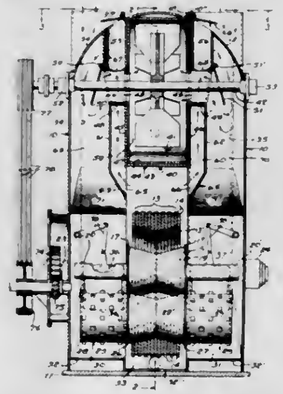
8. A combustion control system for a steam boiler supplied with a plurality of different fuels and air for combustion comprising a regulator responsive to a function of the steam generated by the boiler, an adjustable electrical device connected to and adjusted by the regulator to produce a voltage change, a plurality of impedance elements connected in parallel to said device, a plurality of regulators controlling the supply of different fuels to the boiler, reversible motors controlling the regulators, adjustable impedances controlled by the motors, circuits connecting the



adjustable impedances respectively to the impedance elements, means responsive to voltage unbalance in the respective circuits to control the motors, means to add the voltages developed across one of the impedances in each circuit, and means responsive to the total voltage developed in the adding means to control the supply of air to the boiler.

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**2,644,643**
**LAMINATED-RING AND MULTIPLE INTERNAL-ROLL MILL**
**Martin Frisch, New York, and Gilbert C. Whitney, Jr., Dansville, N. Y., assignors to Foster Wheeler Corporation, New York, N. Y., a corporation of New York**
**Application April 19, 1949, Serial No. 88,412**
**21 Claims. (Cl. 241—122)**

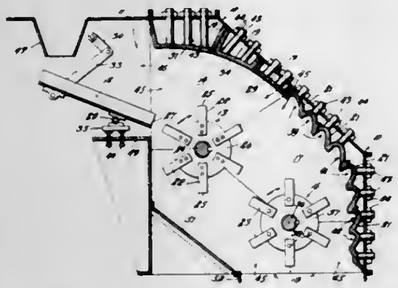


1. Pulverizing apparatus comprising ring and roller pulverizing elements having at least one fixedly supported upper drive roller mounted to rotate on a substantially horizontal axis, said drive roller having a peripheral driving surface, a plurality of laterally adjacent rings each separately pendantly mounted upon said roller, the rings having substantially flat contiguous facing surfaces for pulverizing materials therebetween, the inside diameter of the rings and the diameter of the driving roller at the point of engagement of each of said rings with the peripheral driving surface of said drive roller

being such that the distance between the axis of rotation of the drive roller and the point of engagement of said driving surface and said inner peripheral surface of one ring and the distance between said axis of rotation of the drive roller and the point of engagement of said driving surface of the roller and said inner peripheral surface of a ring laterally adjacent said one ring are unequal, and a pulverizing roller resting within the plurality of rings at the bottom thereof so as to exert a downwardly force on the rings, the configuration of the peripheral driving surface of said drive roller, the configuration of the peripheral surface of the pulverizing roller and said downwardly force exerted on the rings by said pulverizing roller being such as to maintain the rings in parallelism and in grouped relationship with each other around the peripheral driving surface of said driving roller.

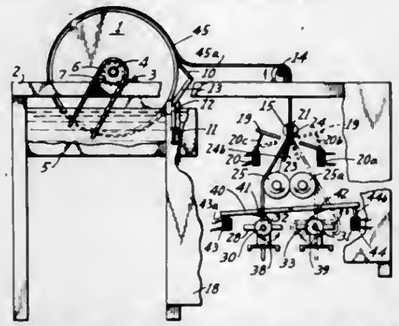
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**2,644,644**
**TWO STAGE HAMMER MILL**
**Woodrow W. West, Rosemont, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York**
**Application June 8, 1951, Serial No. 230,622**
**4 Claims. (Cl. 241—154)**



1. An impact crusher comprising a first impact rotor having rotatable hammers providing an initial crushing action on material introduced into the crusher and a second impact rotor having hammers rotatable in the same direction as said first rotor hammers, said second rotor being in the immediate vicinity of and in open communication with said first rotor, said second rotor positioned at a lower level than said first rotor and to the side of a vertical plane through the center of said first rotor to receive material subjected to the initial crushing action, means for feeding material substantially radially into the quadrant of the hammercircle of the first rotor in which the hammers are moving upwardly above the level of the center of the rotor, breaker means having a relatively horizontal extending portion spaced above said first rotor to receive radially entering material hit by the upwardly moving first rotor hammers and said breaker means extending in spaced relation above said rotors in an increasingly vertical downward direction to receive the impact of material from said rotors and reflecting the material into the rotating hammers, a substantially vertical extending portion of said breaker means extending downwardly from said increasing vertical portion at the side of said second rotor and spaced therefrom a distance less than the spacing of said first rotor from said horizontal portion to receive the impact of the material hit by said second rotor in the final crushing action.

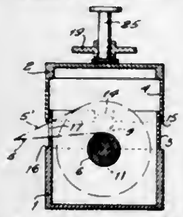
**2,644,645**
**WAX WINDING AND SLABBING DEVICE**
**Angelo J. Bevevino, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware**
**Application November 20, 1948, Serial No. 61,196**
**13 Claims. (Cl. 242—56)**



1. Wax slabbing device comprising a substantially continuously operating arrangement including two wax sheet winding means, wax sheet cutting means defining a first cutting edge and two second cutting edges, means for passing a continuously feeding sheet of wax to said wax sheet cutting means, means for actuating said cutting means for alternate cutting engagement of said first cutting edge with each of said second cutting edges, said cutting actuation and engagement of said first cutting edge with one of said second cutting edges, shifting the direction of travel of such wax sheet from one to the other of said winding means.

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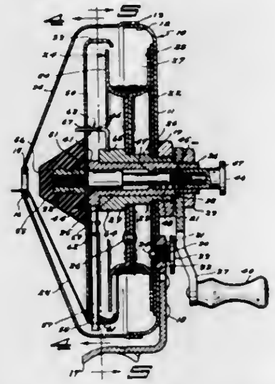
**2,644,646**
**FILM MAGAZINE**
**André Victor Leon Clement Debrie, Paris, France**
**Application May 10, 1950, Serial No. 161,154**
**In France May 21, 1949**
**7 Claims. (Cl. 242—71)**



7. A film magazine, comprising in combination, a first, open-top box portion having side walls terminating in a top edge; a second, open-bottom box portion having side walls terminating in a bottom edge, said side walls of one of said box portions frictionally and slidably engaging said side walls of the other of said box portion and being formed with a shoulder located at a predetermined distance from said edge of said one box portion to engage said edge of said other box portion, one of said side walls being formed with an opening passing therethrough and spaced from said edge of said one side wall by a distance which is less than said predetermined distance, so that said box portions are mutually movable between one position where said opening is uncovered and another position where said opening is completely covered and said edge of said other box portion engages said shoulder.



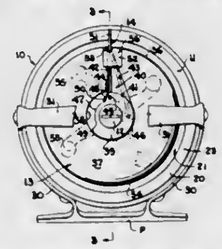
**2,644,647**
**FISHING REEL**
**Henry Warren Denison and Lloyd E. Johnson, Mankato, Minn., assignors to Denison-Johnson, Inc., Mankato, Minn., a corporation of Minnesota**
**Application August 14, 1950, Serial No. 179,188**
**11 Claims. (Cl. 242—84.1)**



1. In a fishing reel of the character described, a frame, a line spool in the frame and the frame having a guide opening for passing the line outwardly and off the end of the spool, a spooling member supported alongside the spool and having a projecting pin for spooling the line, a handle connected to the spooling member for rotating the same, and control mechanism for disengaging the spooling member from the handle and for withdrawing the pin so that the line may peel off of the spool and out said guide opening.

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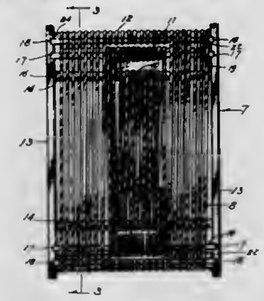
**2,644,648**
**FREE COIL LINE WINDER**
**Peter P. Geraci, San Jose, Calif.**
**Application December 11, 1950, Serial No. 200,252**
**4 Claims. (Cl. 242—84.1)**



3. A line winder comprising a stationary spool having a line wound thereon, a shaft mounted for rotation concentrically of said spool, means on one end of said shaft adjacent one side wall of said spool for turning said shaft, a bracket extending from said spool in the direction of the opposite side wall thereof and having an eyelet concentrically of said spool in spaced relation to said opposite side wall thereof, a wheel mounted for rotation on the other end of said shaft in the region of said opposite side wall of said spool and having an ovoid guide surface for the line extending from said spool through the eyelet in said bracket, a flange secured to said other end of said shaft for retaining said wheel adjacent said opposite wall of said spool, the outer face of said wheel having a recess formed therein bordered by an arcuate wall adjacent said shaft of lesser radius than that of the periphery of said flange, a front wall disposed substantially radially relative to said wheel and a rear wall extending from the rear extremity of said arcuate wall toward the periphery of said wheel in the region of intersection of the latter with the front wall of said recess to form a passage through the periphery of said wheel, and an arm disposed in said recess having one of its ends pivotally connected to said flange between the periphery thereof and the arcuate wall of said recess, said arm having its opposite end arranged within the passage formed through the periphery of said wheel and being of a length such as to be wholly confined within said recess when disposed adjacent the rear wall thereof and to have its free end extended from the periphery of said wheel when said shaft is turned to dispose said arm in abutment with the front wall of said recess for turning said wheel with said shaft whereby the end of said arm extended from the periphery of said wheel effects coiling of said line around said stationary spool during turning of said wheel.

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**2,644,649**
**FISHING LINE DRYING REEL**
**Edward S. Gniadecki, Chicago, Ill.**
**Application September 22, 1952, Serial No. 310,831**
**12 Claims. (Cl. 242—104)**



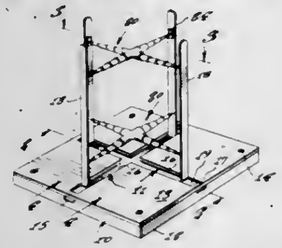
1. Fishing line drying reel means, comprising a body element including a pair of sides interconnected by coil winding portions provided with fishing line groove locating means, the said sides being provided with extensions having on their inner portions pairs of mortised portions of uneven depth, primary coil winding means fitted removably to one pair of the said mortised portions, and secondary coil winding means fitted removably to the other pair of the said mortised portions.

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**2,644,650**
**EXPANSIBLE CORE FOR COILS OF ROPE OR THE LIKE**
**Stephen T. Burke, Jr., Astoria, N. Y., assignor of twenty-five per cent to Henry Behr, Jamaica, N. Y.**
**Application June 27, 1952, Serial No. 296,017**
**7 Claims. (Cl. 242—113)**

1. An expansible core for a coil or ball of rope or the like having an axial passage therethrough and adapted to be unwound in a radial direction outward from said passage, comprising a base having two relatively long intersecting grooves in the top thereof intersecting at the center of the base thereby providing four relatively short grooves extending outward from the point of intersection, each of said short grooves having a

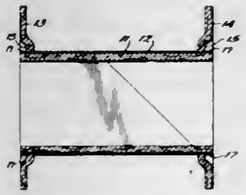
tongue slidably mounted therein, each of said tongues having a substantially upright arm extending therefrom thereby providing four upright arms slidable through their respective tongues in said grooves and providing two pairs of mutually opposed upright arms, and at least one set of normally extended collapsible springs positioned in a horizontal plane between said



arms, the outer extremities of said springs being attached to said arms, the inner extremities of said springs having a member joining said inner extremities thereto, said coil being adapted to be mounted on said base with said springs compressed and said arms passing through said axial passage of the coil and urged by said springs against the walls of said passage.

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**2,644,651**
**BOBBIN**
**William F. Stahl, Kenilworth, and Fred V. Collins, Des Plaines, Ill.; said Collins assignor to said Stahl**
**Application May 3, 1950, Serial No. 159,756**
**7 Claims. (Cl. 242—119)**

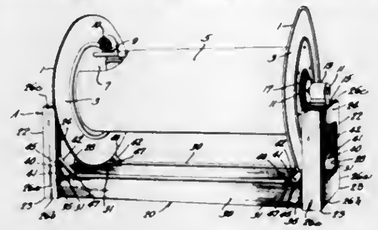


1. A bobbin comprising a core having a thin outer layer of plastic adapted to swell upon application of appropriate swelling agents, and a flange fitted snugly over said core and plastic intermediate the ends of said core, said flange being anchored to said core by swollen zones of enlarged thickness of said plastic on both sides of said flange.

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**2,644,652**
**HOSE REEL FRAME**
**Dwight C. Hannay, Westerlo, N. Y., assignor to Clifford B. Hannay & Son, Inc., Westerlo, N. Y., a corporation of New York**
**Application April 14, 1952, Serial No. 282,130**
**5 Claims. (Cl. 242—134)**

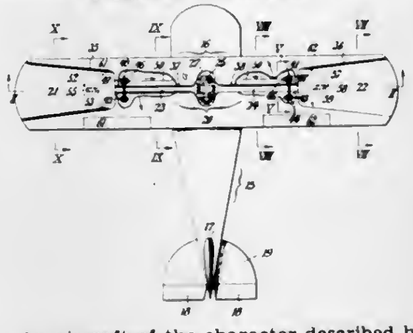
1. In a reel apparatus, a reel, a frame comprising a pair of spaced upright side members mounting said reel therebetween, each of said side members having flanges on its periphery including a base flange and spaced vertical flanges, said side members being spaced apart with said flanges on one side member extending toward said flanges on the other side member, a pair of horizontal cross bars extending in parallel spaced relation between said side members, each end of said cross bars resting on and overlapping the base flange of a side member adjacent to and overlapping a vertical flange of said side mem-



ber, and means securing each end of said cross bars to the adjacent vertical flange of the associated side member of the frame.

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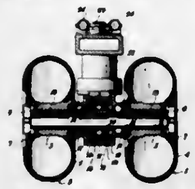
**2,644,653**
**AIRPLANE WITH AUXILIARY LIFTING ROTOR**
**Harry B. Cowgill, Jr., Raeford, N. C.**
**Application July 16, 1949, Serial No. 105,148**
**8 Claims. (Cl. 244—8)**



1. An aircraft of the character described having a rigid main wing extending transversely of its fuselage; a bi-vaned rotor with its shaft vertically arranged substantially at the mid point of the main wing; releasable securing means mounted on said wing and engageable with said rotor for normally holding the rotor fixed with its vanes in parallel relation to the main wing whereby the securing means can be actuated during flight of the craft to release the rotor for operation; and a bearing for the rotor shaft pivotally supported so as to be capable of limited movement fore and aft of the craft upon release of the rotor.

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**2,644,654**
**LANDING GEAR FOR AIRCRAFT**
**Pierre Ernest Mercier, New York, N. Y., assignor of one-half to George H. Corey, New York, N. Y.**
**Application June 1, 1946, Serial No. 673,810**
**12 Claims. (Cl. 244—50)**



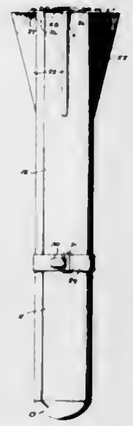
4. In an airplane, a landing gear having in combination a wheel mounting, a steering column



rotatable about a generally vertically extending axis and connected to said wheel mounting to support said mounting for pivotal movement thereof upon said vertically extending axis, shaft bearing means having a horizontal axis carried by said mounting, the vertical plane through said horizontal axis of said shaft bearing means being spaced rearwardly from said vertically extending axis of the steering column with respect to the direction of movement of the airplane, a wheel shaft journalled in said shaft bearing means, and a pair of wheels in spaced relation along and keyed on said wheel shaft.

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**2,644,655**
**AERIAL CARGO LANDING CONTAINER**
**Darwin J. Kitch, Chicago, Ill.**
**Application December 22, 1950, Serial No. 202,280**
**10 Claims. (Cl. 244—138)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. An aerial cargo landing container comprising an elongated nose member constructed and arranged to cushion the impact when the nose of the container strikes the ground; an elongated hollow cargo-carrying body member axially aligned with the nose member; means to secure the body member and nose member end to end; a closure removably fixed upon the opposite end of the body member and closing said end; a plurality of fins fixed to the body member on the outside, said fins being adapted to guide the container in its descent; and means securing the closure to the adjacent ends of the fins.

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**2,644,656**
**PARACHUTE, INCLUDING A REGULATED AIR PASSAGE**
**Peter W. Zbock and Frank Zbock, Bellaire, Ohio**
**Application June 18, 1951, Serial No. 232,078**
**9 Claims. (Cl. 244—152)**

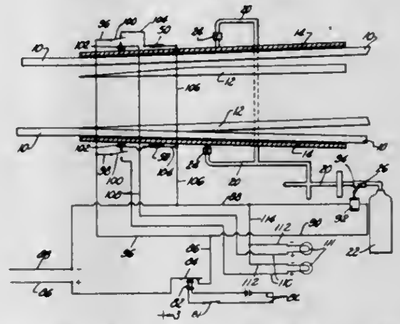
1. A parachute comprising a canopy having a central opening therein, a downwardly facing outer dome having a marginal flange secured to the canopy about the opening, said dome including a central opening, a downwardly facing inner rigid, perforated dome axially slidably received within the outer dome for selectively opening and closing the opening in said outer dome, means urging the convex surface of the inner dome against the concave surface of the outer dome and to a position for closing the opening in the outer dome, and an actuating cord attached to



said inner dome for moving the inner dome away from the outer dome.

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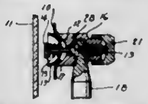
**2,644,657**
**SWITCH HEATER CONTROLLER**
**William McKean White, Jr., Elkhart, Ind., assignor to White Manufacturing Company, Elkhart, Ind., a corporation of Indiana**
**Application December 31, 1947, Serial No. 794,979**
**4 Claims. (Cl. 246—428)**



1. In combination, a pair of rail switch heaters, means for supplying fuel to said heaters, a fuel supply controller, a pair of igniters, a normally inoperative circuit in which said controller and igniters are connected in parallel, and a circuit including a control element located at a control station and an actuator for controlling said first circuit, and a signal circuit including a signal element located at said control station and a pair of normally open thermo-switches responsive to the temperature of said switch heater and connected in series with said signal element.

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**2,644,658**
**REARVIEW MIRROR APPARATUS**
**Daniel E. Reed, Norwalk, Conn., assignor to Supersite Corporation, New York, N. Y., a corporation of New York**
**Application April 12, 1950, Serial No. 155,396**
**2 Claims. (Cl. 248—226)**

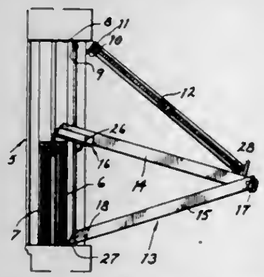


2. In combination a body member having a concave depression in one end and forming a

stud having an axial bore extending therethrough, said member being externally threaded at its outer end; said member having a second bore therein extending across said axial bore and adapted to receive the end of a supporting arm; a supporting arm having its end extending into said second bore and lying across said axial bore in said body member; a frame adjustably supported on said body member and having a convex portion fitting into said concave depression; spring pressed means supported by said body member and extending between same and said frame whereby the latter is adjustably held in engagement with the former; a plunger in the axial bore of said body member; and a nut in threaded engagement with said external threads on the outer end of said body member and adapted to engage said plunger to force same against said arm whereby said body and the frame carried thereby may be adjusted relative to said supporting arm.

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**2,644,659**
**SUPPORT FOR STORM WINDOWS**
**Hermon L. Mitts, Washington, D. C.**
**Application April 28, 1950, Serial No. 158,719**
**2 Claims. (Cl. 248—236)**

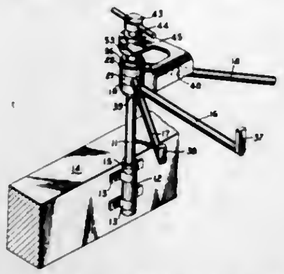


1. A support for use in hanging storm windows comprising a rest member, a brace pivotally connected to the rest member, and a combination attaching hook and keeper hook, the attaching hook and keeper hook including a channel shaped member pivotally mounted on the rest member, a portion of one end of the channel being extended to provide an attaching hook for engagement over a part of a window, a portion of the opposite end of said channel being reversely folded to provide the keeper hook and a recess to permit pivotal movement of the channel on the rest member and allow engagement of the keeper hook with the support when the rest member and brace are collapsed.

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**2,644,660**
**TRAY SUPPORT**
**Carl W. Dudley, Beverly Hills, Calif.**
**Application June 21, 1950, Serial No. 169,502**
**5 Claims. (Cl. 248—282)**

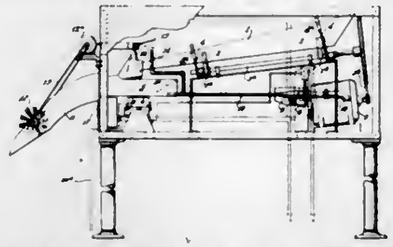
2. In a support device for a food tray, a substantially vertical post member; a collar rigidly secured to said post member; a first arm extending horizontally from said collar; a first sleeve turnably carried on said post member above said collar; a second arm extending horizontally from said first sleeve; a second sleeve turnably carried on said post member above said first sleeve; a third arm extending horizontally from said second sleeve, the said second and third arms being turnable with respect to the post member to a first position to define a plane normal to the axis of said post for supporting a food tray and to a second position substantially coplanar with the axis of said post member; and locking means whereby said second and third arms may be selectively maintained in said first



or said second position, said locking means including a first spring-loaded spherical member on said collar adapted to seat in depressions in said first sleeve, and a second spring-loaded spherical member on said first sleeve adapted to seat in depressions in said second sleeve.

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**2,644,661**
**MACHINE FOR WEIGHING AND PACKAGING POTATO CHIPS OR THE LIKE**
**Frank S. Avil, Avondale Estates, Ga.**
**Application February 16, 1948, Serial No. 8,659**
**2 Claims. (Cl. 249—2)**



1. In a device of the class described, the combination of a hopper having an inclined bottom and a discharge opening at the lower end thereof, said discharge opening having a closure that is swingingly mounted so as to normally assume open position, a weighing receptacle located in such position as to receive the material discharged from said hopper, air jet means adapted to be actuated for impinging a jet of air against said closure for closing the same so as to thereby discontinue the discharge from said hopper, and electric means adapted for energization by the weight of said weighing receptacle and its contents when the same receives a predetermined weight of the material for automatically actuating said air jet means.

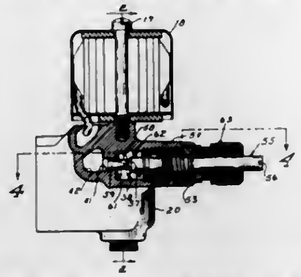
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**2,644,662**
**LOW RATE OIL FLOW VALVE**
**Milton A. Powers, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio**
**Application May 20, 1946, Serial No. 671,052**
**6 Claims. (Cl. 251—34)**

5. In a liquid flow control valve, a body having an opening, a substantially radial flat face surrounding one side of said opening, a thin annular valve plate mounted on said face with its aperture substantially aligned with said opening,



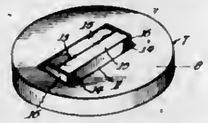
an axially movable valve stem mounted on said body and having a portion of uniform size along its length in substantially liquidtight sliding engagement with said aperture, a compressed spring surrounding said valve stem portion and urging said plate against said seat, and a longitudinal groove of changing size in the periphery



of said valve stem portion where the latter projects through said plate, said groove having a length appreciably greater than the axial distance of contact between said valve stem portion and said plate and cooperating with said plate aperture to provide an axially thin liquid orifice for metering flow of liquid through said opening.

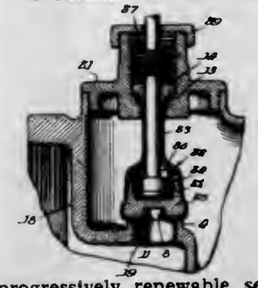
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**2,644,663**
**ONE-PIECE CHECK VALVE OF MOLDED RESILIENT MATERIAL**
**Karl A. Klingler, Chicago, Ill., assignor to Roth Rubber Company, Chicago, Ill.**
**Application April 15, 1952, Serial No. 282,316**
**8 Claims. (Cl. 251—122)**



1. As a new article of manufacture, a check valve adapted to be positioned in a passage and to permit flow of fluid through the passage in one direction only, and comprising a body adapted to extend across the passage, formed of resilient rubbery material, having substantially flat side surfaces and an elongated fluid opening allowing communication between said side surfaces, embodying at the ends of the opening spaced apart inclined surfaces that are convergent in the direction of one side surface of the body, and provided along the sides of the opening with a pair of elongated opposed coacting lips, said lips having the ends thereof positioned adjacent the inclined surfaces and undercut at an angle corresponding to the angle of inclination of said inclined surfaces, having comparatively thin integral hinge connections between their outer side portions and the portions of the body along the sides of the opening whereby they are capable of swinging towards one another into a closed position wherein their inner side portions abut against one another and their undercut ends abut against the aforesaid inclined surfaces and away from one another into an open position wherein fluid is permitted to pass through said opening, and being so arranged that they swing into their open position when fluid is directed against said one side surface of the body and swing into their closed position when fluid is directed against the other side surface of the body.

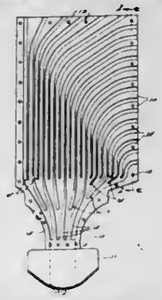
**2,644,664**
**VALVE**
**George Hansen, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois**
**Application December 22, 1947, Serial No. 793,139**
**5 Claims. (Cl. 251—159)**



1. A progressively renewable seating face of flexible material snugly enclosing a valve closure member with a transverse end surface and a hollow central portion, the flexible material being in substantially tubular form, said seating face extending in a flat radial plane relative to the control axis of the said closure member and being formed as an annular deflection of an end portion of the flexible material, the latter material being predeterminately movable axially while maintaining substantial surface contact with the said closure member to selectively provide a new seating face over the transverse end surface of said closure member upon occurrence of such axial movement of the flexible material relative to the said closure member, and means engaging the hollow central portion of the valve closure member and gripping the annular deflection of said flexible tube to predeterminately retain the latter member in fixed axial position.

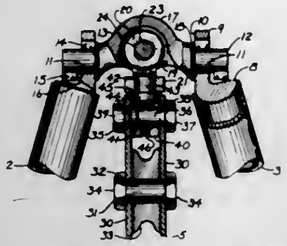
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**2,644,665**
**ARTICLE WITH PASSAGES**
**Luigi Cangemi, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application December 13, 1947, Serial No. 791,613**
**3 Claims. (Cl. 253—39.15)**



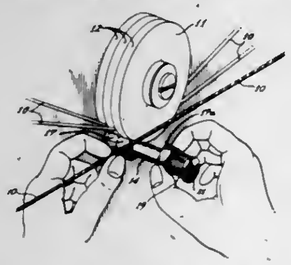
3. A cooled turbine blade having a plurality of curved cooling passages terminating in the tip and in one edge and being formed of a cast sheet member having openings countersunk at one side, and a second member having curved ridges and grooves terminating in the tip and one edge and cooperating with the other side of the cast sheet member to form the aforesaid passages, and filling projections integral with and projecting from the second member and being wholly contained within the dimensions of the countersunk openings in the cast sheet member for unprotrusively holding the members together.

**2,644,666**
**GIN POLE AND UNIVERSAL TOP ASSEMBLY THEREFOR**
**Lee S. Johnson, Tulsa, Okla.**
**Application June 27, 1951, Serial No. 233,826**
**9 Claims. (Cl. 254—139)**



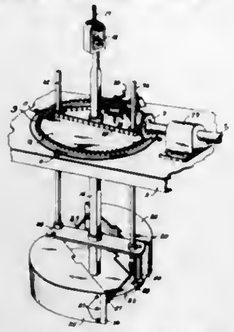
1. In a gin pole structure having spaced upwardly converging pole members with aligned bearing members adjacent the upper ends thereof, a top member arranged between the upper ends of the pole members, oppositely extending trunnions on the top member and rotatably mounted in the bearing members, means on the trunnions normally retaining the trunnions in the bearing members, a depending spindle swingingly mounted on the top member between the pole members with the axis of the swinging movement of said spindle above the axis of the trunnions, a snatch block having a sheave rotatably mounted at one end thereof, and means on the other end of the snatch block rotatably mounted on the spindle to form a swivel connection between the snatch block and spindle with the axis of rotation of the snatch block perpendicular to the axis of swinging movement of the spindle.

**2,644,667**
**CABLE RETAINER**
**Alvin R. Vogel, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California**
**Application March 26, 1951, Serial No. 217,475**
**4 Claims. (Cl. 254—193)**



2. A device for retaining a cable in the groove of a cable pulley; which comprises a post headed at one end thereof, roller means slidably mounted on said post, and resilient means positioned intermediate said headed end of said post and said roller means, said post being attached at the end thereof opposite said headed end to a rigid support and positioned closely adjacent the groove of said pulley with said post and said roller means transversely opposed to said cable in said pulley groove, said roller means being maintained in close opposition to said cable by said resilient means to prevent said cable from leaving said groove.

**2,644,668**
**UNDER REAMING DEVICE**
**Edgar L. Carpenter, Wichita Falls, Tex.**
**Application January 20, 1951, Serial No. 207,018**
**9 Claims. (Cl. 255—19)**



1. In an earth under reamer the combination of an under reamer stem, a pair of longitudinal, spaced supports secured to said stem near the lower end thereof, a pair of hollow under reamer buckets each of which has an arcuate side wall, a top plate and a bottom plate secured to the respective upper and lower extremities of said side walls, each of said buckets being pivotally mounted at one end between said support members, a blade member on the respective ends of said hollow buckets opposite the pivoted ends, said buckets being arranged in opposed relation, means for limiting the outward movement of said bucket members, and means remote from said buckets for moving said buckets inward.

**2,644,669**
**MOBILE DRILLING APPARATUS**
**John C. Curtis and Harold F. Minnis, Claremont, N. H., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application January 20, 1950, Serial No. 139,611**
**18 Claims. (Cl. 255—51)**



1. In a drilling apparatus for drilling holes in the roof, floor or sidewalls of a subterranean passageway, a mobile base movable over the floor, a horizontal guide frame carried by said base, fluid operated jack means arranged between said guide frame and said base for elevating and tilting said guide frame with respect to the floor surface, a drilling motor mounted on said guide frame for movement back and forth therealong, fluid operated means for moving said motor along said guide frame, a flexible shaft movable axially with and driven by said motor for rotating a drill bit, guiding means for said shaft as the latter moves axially including a curved front guide tube mounted on the forward end of said guide frame and through which said shaft extends for deflecting the outer portion of said shaft in a lateral direction, means for mounting said guide tube for rotation about a longitudinal axis relative to said guide frame to change the angular position of said drill bit, and fluid operated means for rotating said guide tube on its mounting.

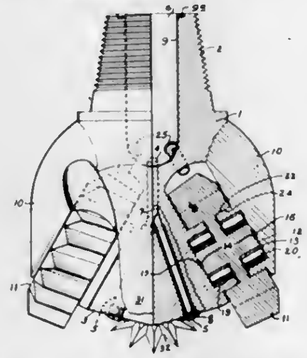


**2,644,670**
**EXPANSIBLE DRILL BIT AND CUTTER BLADE**
**John R. Baker, Pasadena, and Earnest H. Clark, Jr., Huntington Park, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**
**Application October 30, 1950, Serial No. 192,980**
**8 Claims. (Cl. 255—61)**



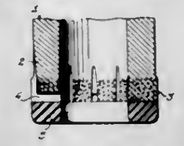
1. A cutter blade for a rotary drill bit including an alloy steel body having a recess along one of its marginal portions; a separate alloy steel cutter element in said recess; means detachably securing said element to said body; hardfacing material welded to the leading face of said element; the chemical analysis of said body steel being different from that of said cutter element steel such that the alloy steel of said body has greater hardenability characteristics and hardness than the alloy steel of said element but lacks sufficient weldability characteristics to have the hardfacing material welded firmly thereto, and said cutter element has a lesser capability of being hardened than said blade body, but has a weldability characteristic such that the hardfacing material is securely welded thereto, whereby said blade body will break before bending.

**2,644,671**
**ROCK DRILLING BIT**
**Martell D. Ingram, Wichita Falls, Tex.**
**Application March 4, 1947, Serial No. 732,171**
**7 Claims. (Cl. 255—71)**



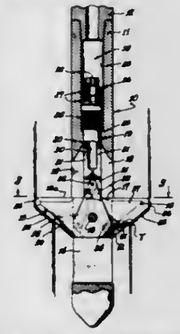
1. In a rock bit structure for rotary drilling, a bit body having an opening formed therein, a threaded connection on the upper end of said bit body for connection with a drill stem, roller cutters, arms depending downwardly from said bit body, a roller bearing element mounted on each of said arms, said roller cutters being journalled in said roller bearing elements for rotary movement about the axis of each respective cutter, conduits formed through said bit body for directing drilling fluid to said cutters, each of said cutters having a shaft formed integral therewith and having an annular recess formed in each end of said cutter and exterior of said shaft to receive said roller bearing elements, and a bearing race adjacent each end of each cutter and interfitting therewith in telescoping relation with the annular recesses of said cutters so as to seal said bearing races against the entrance of drilling mud thereinto.

**2,644,672**
**DIAMOND BIT PROTECTOR**
**Ted C. Mathews, Fairbanks, Territory of Alaska**
**Application January 29, 1951, Serial No. 208,264**
**8 Claims. (Cl. 255—72)**



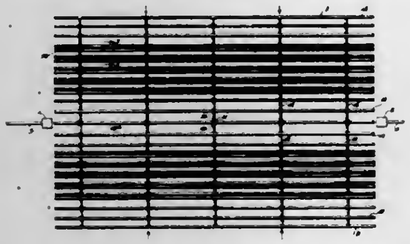
1. The combination with a diamond bit of: a protector formed of malleable material having the tendency to flow under pressure and the tendency to retain its altered shape on relief of pressure, said material also being susceptible to fracture when subjected to shock loads; said protector initially covering the end of said bit during its descent into a well bore; said protector adapted to be compressed between the bit and the bottom of the well bore, thereby to flow around and embed debris at the bottom of the well bore; said protector adapted on rotation of said bit to strip therefrom and be ground up with the debris to form cuttings dischargeable from the well bore.

**2,644,673**
**EXPANSIBLE ROTARY DRILL BIT AND CUTTER**
**John R. Baker, Pasadena, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**
**Application September 26, 1949, Serial No. 117,771**
**5 Claims. (Cl. 255—76)**



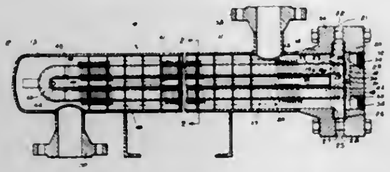
1. In an expansible rotary drill bit: a main body; a cutter blade; means pivotally mounting said blade on said body; means for swinging said blade between a retracted position substantially entirely within said body and an expanded position extending substantially outwardly of said body; said blade having a lower cutting portion providing a lower edge continuously inclined substantially to the body axis in a downward and inward direction when the blade is in expanded position; said inclined portion having a recess formed in the leading face of the blade and extending upwardly from said lower edge and also extending from a point adjacent said body to the outer edge of the blade; and hardfacing elements in said recess welded to said blade, said elements being arranged substantially normal to the lower inclined edge of said blade.

**2,644,674**
**DRIVE-OVER METAL CATTLE GATE**
**Vernon M. Thede, Muscatine, Iowa**
**Application May 13, 1952, Serial No. 287,581**
**9 Claims. (Cl. 256—14)**



1. In an animal guard of the character described, at least two arched supports, upper transverse cross bars on said supports sufficiently spaced to permit the passage of an animal's hoof therethrough and lower transverse cross members mounted to one side of and in parallel relationship with said upper cross bars, whereby impingement of the hoof on said lower member will trip said animal.

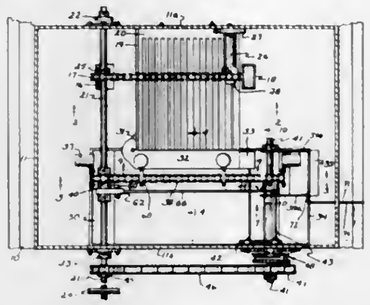
**2,644,675**
**HEAT EXCHANGER**
**Sigmund Kopp, Fredonia, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York**
**Application November 3, 1949, Serial No. 125,181**
**2 Claims. (Cl. 257—239)**



1. In a heat exchanger of the class wherein a shell is provided with a removable head closure, a tube and baffle plate assembly removable from the shell as a unit comprising a tube sheet a plurality of fluid conducting U-tubes having legs anchored at their open ends to the tube sheet, apertured baffle plates upon the U-tubes, a rigid member extending through the baffle plate apertures, and longitudinal movement restraining means for the rigid member comprising a pin disposed through the rigid member transversely to the axis of the legs of the U-tubes and adjacent the return bends thereof, said pin being adapted to engage such bends to prevent movement of the rigid member rearwardly in response to the pressure of the shell fluid upon the baffle plates.

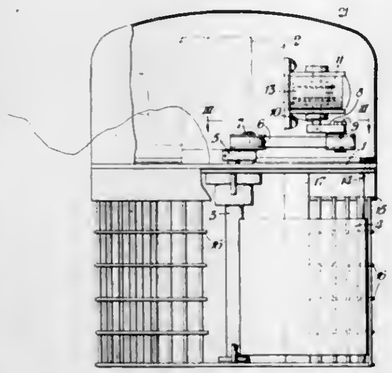
**2,644,676**
**SLURRY HANDLING DEVICE FOR SEED TREATING MACHINES**
**Morris W. Guyer and Oscar C. Calkins, Spokane, Wash., assignors to Calkins Manufacturing Company, Spokane, Wash.**
**Application May 8, 1951, Serial No. 225,206**
**7 Claims. (Cl. 259—45)**

1. In a seed treating machine, an inclined slurry pan, means to maintain a supply of slurry in said pan, a plurality of outlets arranged in a row adjacent the lower edge of said pan, an endless flexible conveyor adjacent the lower edge of said pan, said conveyor having a plurality of spaced apart measuring cups secured thereto and offset laterally therefrom, said cups being in the



same vertical plane as said outlets, the lower flight of the conveyor being below the lower edge of the pan and the cups on said lower flight having their open ends up, means to drive said conveyor, and a receiving trough beneath one end of said conveyor, and offset lengthwise of the conveyor from the nearest outlet from the pan.

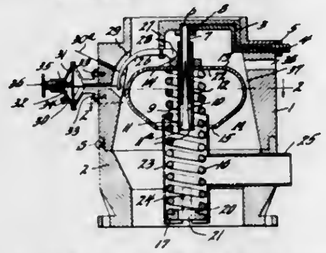
**2,644,677**
**MEANS FOR AGITATING LIQUIDS**
**Hans Leopold Simon, London, England**
**Application July 25, 1950, Serial No. 175,800**
**In Great Britain July 26, 1949**
**3 Claims. (Cl. 259—101)**



1. A portable device adapted to be removably positioned in a container for agitating liquids contained therein comprising means for producing a uniformly directed flow of liquid in the container, said means being adapted to operate in an unobstructed volume of the liquid defined by a perforated casing surrounding and spaced from said means and extending upwardly a substantial distance from the bottom of the device whereby the liquid is agitated throughout substantially the whole depth thereof, said means comprises a blade extending longitudinally of the device and adapted to be oscillated about one longitudinal edge thereof.



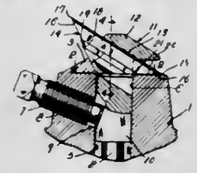
**2,644,678**
**CARBURETOR FOR INTERNAL-COMBUSTION ENGINES**
**Carleton W. Gilmore, Pampa, Tex.; Mary Myrtle Gilmore, independent executrix of said Carleton W. Gilmore, deceased**
**Application May 31, 1951, Serial No. 229,009**
**8 Claims. (Cl. 261—14)**



1. A carburetor comprising a body portion provided with a main fluid flow passage therethrough, conduit means for delivering liquid fuel under pressure to said passage, said conduit means terminating in a discharge orifice positioned substantially axially of said passage and arranged to deliver liquid fuel thereto in the direction of fluid flow therethrough, a needle valve controlling flow of liquid fuel from said orifice, spring means resiliently urging said needle valve to closed position, valve control means including a fluid flow constricting member surrounding said fuel conduit means and disposed transversely of said fluid flow passage and extending radially into close proximity to but spaced from the inner wall of said fluid flow passage to thereby restrict the flow of incoming fluid to the annular space between the periphery of said fluid flow constricting member and the adjacent inner wall of the fluid flow passage, said fluid flow constricting member being mounted within the fluid flow passage for movement longitudinally thereof in response to fluid pressure differential existing on its upstream and downstream faces, means operatively connecting said valve control means to said needle valve for moving the same to open position against the force of said spring as the fluid pressure differential increases, means defining a fuel mixing chamber open at opposite ends, one end of said fuel mixing chamber surrounding said fuel discharge orifice and terminating beneath said fluid flow constricting member and out of the path of fluid flow through said annular space, and conduit means for delivering heated air to said mixing chamber.

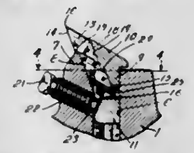
**2,644,679**
**CUTTER CHAIN**
**Leon E. Simmons, Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Original application December 24, 1943, Serial No. 515,493. Divided and this application February 5, 1948, Serial No. 6,472**
**3 Claims. (Cl. 262—33)**

1. In a cutter chain, a chain block having a socket and a rearwardly facing inclined surface at the forward wall of the socket, a reversible cutter bit having spaced cutting faces terminating in cutting points at the opposite extremities of the bit and having shoulders on its cutting faces providing abutment surfaces, the front face of the bit engaging said inclined rearwardly facing block surface, and the abutment surface of the shoulder on the inner bit face resting against the rear wall of the block socket and the inner bit face resting against the exterior surface of the chain block, and a holder receiver in said



block socket for securing said bit in cutting position on said block and having an opening for receiving the cutter bit.

**2,644,680**
**CUTTER CHAIN**
**Leon E. Simmons, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Continuation of application Serial No. 515,493, December 24, 1943. This application March 19, 1948, Serial No. 15,931**
**3 Claims. (Cl. 262—33)**



1. In a cutter chain, a chain block having a socket and a rearwardly facing inclined surface at the forward wall of the socket, a reversible cutter bit having spaced cutting faces terminating in cutting points at the opposite extremities of the bit and having shoulders on its cutting faces providing abutment surfaces, the front face of the bit engaging said inclined rearwardly facing block surface with the abutment surface of its front shoulder resting against the outer surface of the block, and a holder received in said block socket and having a recess for receiving the inner portion of the cutter bit, the inner wall of the recess having a shoulder cooperating with the abutment surface of the shoulder of the rear bit face for locking the bit in said holder recess.

**2,644,681**
**APPARATUS FOR ROASTING VEGETABLE MATERIALS**
**William S. Scull 2nd, Bryn Mawr, and George A. Fisher, Selinsgrove, Pa., assignors, by mesne assignments, to Jabez Burns & Sons, Inc., a corporation of New York**
**Original application April 8, 1947, Serial No. 740,156. Divided and this application May 5, 1948, Serial No. 25,234**
**4 Claims. (Cl. 263—34)**



1. A coffee roaster comprising an oven having a plurality of successive heating zones, heating means to heat said zones to successively lower

temperatures, a roasting tube having air-tight unvented walls to prevent the passage of any air into the tube and to roast the coffee beans in an atmosphere of gases evolved during the roasting processes, said walls having at one and the same end of the tube a discharge and exhaust outlet to remove gases evolved during the roasting process and discharge the roasted coffee beans and at the other end a sealing closure provided with a coffee bean inlet tube adapted to be sealed by entering coffee beans to reduce the entrance of air to small quantities unaffecting the coffee roasting and maintaining it substantially solely in the presence of the vapors and gases evolved from the coffee beans, means to rotate said tube, and a coffee bean advancing helix within said tube to advance the coffee beans therethrough from the high to the low temperature end when the tube is rotated, and exhaust means connected to the discharge and exhaust outlet end of said tube including means sealing the coffee discharge against the entrance of air into the tube whereby gases evolved from the coffee during the roasting process may be drawn from the tube.

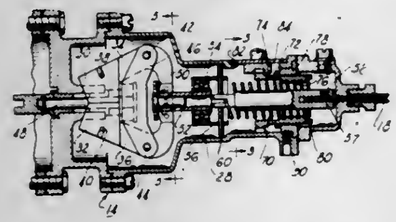
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**2,644,682**

## GOVERNOR HAVING SPRING RATE AND TENSION ADJUSTMENT MEANS

**Guy C. Fricke, Elmer M. Bimberg, and David J. Schaffer, Detroit, Mich., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**

**Application July 28, 1951, Serial No. 239,148**
**11 Claims. (Cl. 264—3)**



10. A governor spring assembly comprising a movable member, a fixed member, a spring secured at one end to one of said members, a rotatable internally threaded annular member positively held against translatory movement and supported by the other of said members, and a second annular member threadedly received in said first annular member and having internal threads corresponding to the convolutions of said spring for receiving said spring.

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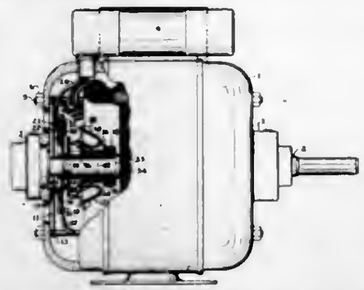
**2,644,683**

## SWITCH GOVERNOR HAVING PERPENDICULARLY PIVOTED INSERTABLE WEIGHTS

**Emil S. Tamm, Plainfield, N. J., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**

**Application December 2, 1950, Serial No. 198,816**
**5 Claims. (Cl. 264—15)**

5. A centrifugal switch actuating mechanism comprising a sleeve adapted to be removably secured on a driving shaft, a bracket fixed to said sleeve in spaced relation to one end of said sleeve, a plate slidably mounted on said sleeve, a spring around said sleeve bearing between said bracket and said plate and biasing said plate away from said bracket toward said one end of said sleeve, a plurality of weight members pivotally mounted on said bracket and extending away from said plate and each of said weight members having a part lying radially inwardly of its pivotal connection to said bracket and pivotally connected



to said plate whereby to draw said plate toward said bracket as said weights respond to centrifugal force, and stop means on said weights and said bracket limiting movement of said plate toward said one end of said sleeve by said spring.

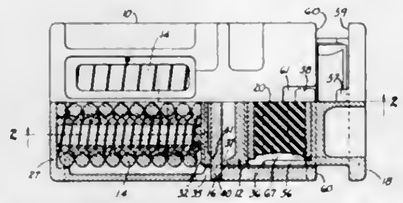
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**2,644,684**

## CUSHIONING MECHANISM

**Hubert L. Spence, East Cleveland, and Donald Willison, Shaker Heights, Ohio, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio**

**Application May 9, 1947, Serial No. 747,014**
**8 Claims. (Cl. 267—9)**



1. In a cushioning mechanism, opposed wedge members arranged longitudinally of one another and adapted for relative movement in a longitudinal direction, said members having wedge surfaces extending in overlapping relationship in a direction lengthwise and crosswise of said mechanism, a rubber pad of substantial thickness interposed between said wedge surfaces and in engagement therewith for resisting said relative movement and for exerting a lateral force against said members, means associated with said members for confining said members against lateral movement during relative longitudinal movement thereof, and stops on said wedge members for engagement with said means to limit longitudinal movement of said members relative to said means.

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**2,644,685**

## FEED DELIVERY DEVICE FOR NEWSPAPER SECTIONS AND THE LIKE

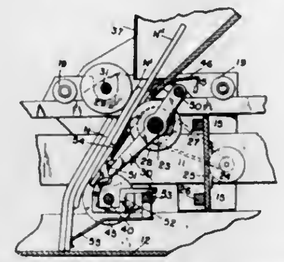
**Chauncey L. Rockwell, Portland, Oreg., assignor, by mesne assignments, of one-half to Robert P. Gantenbein, Georgianna G. Aston, and Rhoda Adams**

**Application September 23, 1950, Serial No. 186,444**
**8 Claims. (Cl. 270—55)**

1. In a newspaper section feed delivery device of the charactr described, a housing, the forward end of said housing constituting a delivery trough, a carriage movable on said housing, a



main feed roll on said carriage, a cooperating feed roll ahead of said main feed roll, a movable mounting support on said carriage for said cooperating feed roll, a third feed roll in said housing below said main and said cooperating rolls, said third roll mounted in said movable mounting support, guiding means directing newspaper sections between said main feed and cooperating feed rolls and thence down in front of said third feed roll into said delivery trough end of said housing, driving means on said carriage for rotating said main feed roll, said cooperating roll and said third feed roll at the same peripheral speed, said cooperating feed roll and therewith said movable mounting support and said third feed roll adapted to be moved forward on said carriage by the engagement of newspaper sections between said main feed and said cooperating feed rolls, means for causing said carriage to move forwardly on said housing and means regulating the forward pressure exerted by said carriage.



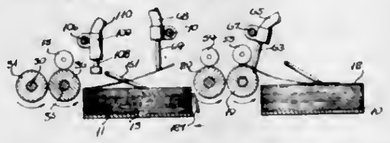
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**2,644,686**

## METHOD OF INSERTING SINGLE SHEETS INTO FOLDED SHEETS AND APPARATUS FOR PERFORMING THE SAME

**Herman Dann, Brooklyn, N. Y.**

**Application March 17, 1952, Serial No. 277,016**
**6 Claims. (Cl. 270—57)**



1. A device for inserting a number of single sheets into a number of folded sheets comprising a receptacle for the single sheets, a feed roll couple positioned forwardly of said receptacle for single sheets, a receptacle for folded sheets positioned forwardly of said feed roll couple, the topmost folded sheet disposed in said receptacle being positioned below a portion of the circumference of one of said feed rolls, an additional feed roll couple positioned forwardly of said receptacle for folded sheets, suction means located above said receptacle for single sheets, additional suction means located above said receptacle for folded sheets, arm members adapted to raise said suction means simultaneously, said arm members being actuated by the same timing mechanism so that the movement of said suction means is adapted to carry one of the single sheets at a time over said first-named feed roll couple and simultaneously to raise one side of one of said folded sheets so that one of said single sheets is inserted between the fold of one of said folded sheets, further suction means adapted to convey said folded sheets after insertion of said single sheets over said additional feed roll couple, an additional receptacle adapted to hold said folded sheets after insertion of said single sheets positioned forwardly of said additional feed roll couple, means driving said first-named feed roll couple and said additional feed roll couple, and means driving said suction means.

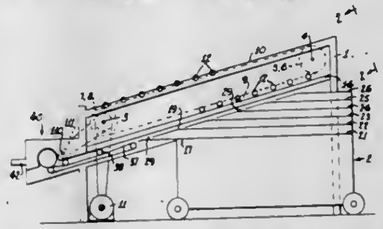
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**2,644,687**

## DEVICE FOR COLLATING TISSUE PAPER GARMENT PATTERNS FROM STACKS

**August G. Luisada, New York, N. Y., assignor to Advance Pattern Co., Inc., New York, N. Y., a corporation of New York**

**Application June 19, 1950, Serial No. 169,045**
**1 Claim. (Cl. 270—58)**



In a collating machine wherein a number of sheets are to be collated, superimposed plates arranged in spaced apart relation to support said sheets, said plates having their front ends staggered in one direction, means to support said sheets to allow a mouth transverse to said direction to remain between each pair of adjacent plates so arranged that sheets from all plates can be moved in said direction through these transverse mouths, said sheets being disposed on their respective plates rearward of the front edge thereof; groups of carrying members at least one group for each plate, moving means to move in said direction, and support said carrying members in groups, each carrying member of one group having a definite position within its group and all groups begin similar, each carrying member of one group moving along a path to pass over an area of contact of each said carrying member with one of said sheets, longitudinal slots along said paths arranged in said plates over each said contact area to extend in said direction of movement to said transverse mouths, the slots in each plate being out of line with those in every other plate means arranged along said path to cause an additional motion of each carrying member to contact a sheet on said contact area through said longitudinal slots, spring means on said moving means to urge said carrying members to contact said sheets through said slots and to apply pressure on them to convey them through said transverse mouths to assemble them, said definite relation between said carrying members of each group being similar to the relation of said contact areas on the plates.

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**2,644,688**

## EXERCISER AND LEG REST

**Philip F. Roberge, Wethersfield, Conn.**

**Application May 27, 1949, Serial No. 95,672**
**5 Claims. (Cl. 272—57)**

1. An exerciser and leg rest comprising in combination, a frame including a generally upright portion with an unobstructed space at one transversely extending side thereof which frame portion comprises two transversely spaced upright bars, the said frame also including two transversely spaced longitudinally extending horizon-

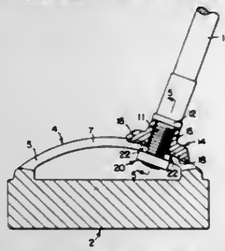
tal floor engaging bars to which the respective upright bars are rigidly connected at their lower ends which floor engaging bars have an unobstructed space between them at the aforesaid unobstructed side of the upright portion, and two groups of vertically spaced transversely extending substantially horizontal leg supports carried by and projecting from the respective bars of the said upright portion of the frame, the supports



of the two groups projecting in opposite directions and toward each other with unobstructed spaces between their projecting ends and each support of each group below the uppermost support of the said group being spaced from a vertical transverse reference plane at the unobstructed side of the upright portion of the frame by a distance substantially greater than the distance of the next higher support from the said reference plane.

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**2,644,689**
**ADJUSTABLE GOLF CLUB**
**Harold Russell Putnam, Iowa City, Iowa**
**Application February 6, 1950, Serial No. 142,555**
**4 Claims. (Cl. 273—79)**

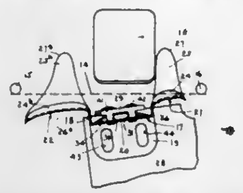


1. A golf club having a head and a handle, said head having opposite end portions, securing means for attaching said handle to the head, comprising an arch having ends and secured at its ends to the end portions of the head, said arch comprising a pair of spaced members with which a nut cooperates, said nut having a pair of lugs which slide between the arched members and which prevent the nut from turning.

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**2,644,690**
**TAPE GUIDE AND PRESSER FOR TAPE RECORDERS AND THE LIKE**
**Franz K. Krag, Chicago, Ill.**
**Application December 26, 1951, Serial No. 263,261**
**3 Claims. (Cl. 274—4)**

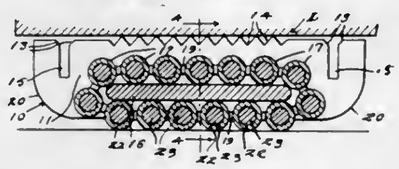
1. A tape guide for guiding a record tape during the travel of said tape past a sensing head and for retaining the tape in light and smooth pressing contact with the sensing head, said guide including a first unit comprising a sheet metal blank formed to provide a vertical plane surfaced body member provided with a pair of vertical through slots which are laterally separated from each other, a pedestal extending rearwardly from said body member at right angles to the body member, and laterally extending wings reaching from both sides of the said body member, each wing including a vertical tape guiding flange reaching laterally from the proximate portion of the said vertical body member and a forwardly reaching substantially horizontal prong in connection with the lower edge of each flange, both of the vertical flanges being formed on curved surfaces which are concave rearwardly and which surfaces are developed by movement of vertical straight lines laterally away from the body member, together with a second unit comprising a presser shoe formed from a sheet metal blank to provide a body member of channel shaped cross-section and including upper and lower rearwardly reaching flanges, said body member being of size to be accommodated directly in front of the vertical



plane surfaced body member of the first unit and with the channel of the presser shoe extending horizontally and the flanges of said channel reaching rearwardly towards the body member of the first unit, lugs on both of said channel flanges reaching rearwardly through the slots of the body member of the first unit, a bow shaped leaf spring accommodated within the channel of the presser shoe and having its end portions in contact with the front face of the vertical body member of the first unit and having its central bowed portion in contact with the central portion of the rear face of the presser shoe to urge said presser shoe forwardly with respect to the first unit, stops on the rear ends of the lugs of the presser shoe channel flanges to engage the rear face of the body member of the first unit and limit forward movement of the presser shoe under the urging of said spring, together with a yieldable pad connected to the presser shoe and located at the front face of said shoe.

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**2,644,691**
**ROLLER DEVICE FOR MOVING LOADS**
**Herman R. Pohle, New York, N. Y.**
**Application April 24, 1951, Serial No. 222,618**
**1 Claim. (Cl. 280—1)**



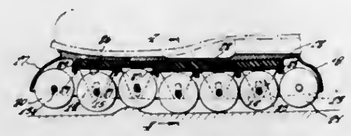
A roller device including a pair of bars arranged in spaced parallel relation with respect to each other, there being aligned slots arranged in said bars for receiving an angle iron adapted to be attached to the bottom of a load to be moved, the upper portion of said slots being flared outwardly, a plate extending between said bars and secured thereto, an endless roller track trained



over said plate and interposed between said bars, said track comprising a plurality of cylindrical rollers arranged in spaced parallel relation with respect to each other, there being a longitudinally extending bore extending through each of said rollers, a shaft rotatably positioned in each of said bores, a trunnion projecting from each end of said shaft, and links extending between said trunnions and pivotally connected thereto, portions of said rollers extending below said bars when the rollers are in their lowermost position, whereby the rollers engage a surface to cause the load pressure to be exerted against said plate.

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**2,644,692**
**ROLLER SKATE**
**Ernest Kahlert, Santa Ana, Calif.**
**Application May 28, 1951, Serial No. 228,681**
**3 Claims. (Cl. 280—11.22)**

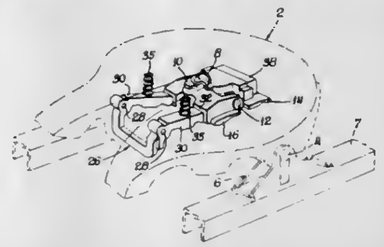


1. A roller skate comprising a plate adapted to have the sole of the shoe of the user rest thereon, opposed longitudinal side walls extending downward from the underside of the plate equidistant from an imaginary vertical plane through the longitudinal median line of the plate, said side walls having spaced pairs of aligned vertical slots therethrough near the lower edges thereof, rollers mounted between said side walls, each of said rollers having a shaft extending therethrough, the ends of said shaft passing through one of said pairs of aligned slots thereby mounting said rollers vertically slidably between said side walls, each of said rollers having a yoke including a saddle and depending arms mounted between the roller and said side walls, said yoke arms having holes in the lower ends thereof, said ends of said shaft passing through said holes, and yieldable means mounted between said saddles and said plate, each of said saddles having downwardly extending flanges on the longitudinally opposed transverse edges thereof, each of said flanges except those at the ends of the skate being positioned in vertically slidable engagement with the said flanges of the adjacent saddles, said plate having downwardly extending tongues near the ends of the skate, the outermost of said flanges slidably engaging said tongues.

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**2,644,693**
**TRACTOR-TRAILER FIFTH WHEEL COUPLING MECHANISM**
**William J. Geddert, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**
**Application October 31, 1951, Serial No. 254,021**
**3 Claims. (Cl. 280—33.05)**

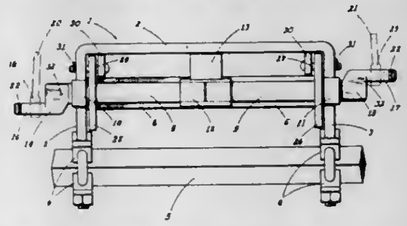
1. In a fifth wheel coupling mechanism; the combination of front and rear jaws pivotally interconnected for translatory movement forwardly and rearwardly with respect to the fifth wheel, a guide ledge on the fifth wheel engaged with an extension on the rear jaw for pivoting the rear jaw upwardly to closed position thereof during forward movement of the jaws, compression spring means between the front jaw and a front wall of said fifth wheel for yieldingly resisting forward movement of said jaws to the closed position of said rear jaw, and vertically



aligned rearwardly facing king pin abutments on the front jaw above and below the horizontal plane of its center of gravity.

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**2,644,694**
**ADJUSTABLE MOUNT FOR TOOL BARS**
**Elmer G. Briscoe, Fresno, Calif.**
**Application May 27, 1952, Serial No. 290,205**
**3 Claims. (Cl. 280—33.44)**



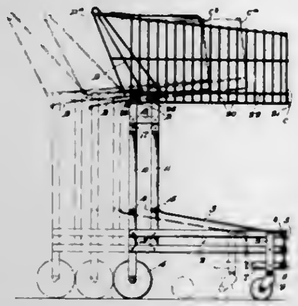
3. An adjustable mount, for attachment between a tool bar and a tractor hitch having transversely spaced lower draft links and an upper central link; comprising a transversely elongated draft frame of rearwardly opening U-shape, said draft frame including a front cross bar and rearwardly projecting side bars, an A-frame rigid with and upstanding from the draft frame for connection with the rear end of the upper link, a pair of selectively and independently rotatable, transverse shafts end to end within the draft frame extending in journaled relation through corresponding side bars, a central sleve fixed in the draft frame supporting the inner end portions of the shafts, cranks on the outer ends of the shafts for connection with the rear ends of the lower links, a locking disc fixed on each shaft inwardly of but adjacent the related side bar, each disc having a concentric row of holes adapted to register one at a time with a hole in the related side bar, and a locking pin removably engaged through registering holes in each disc and the related side bar.

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**2,644,695**
**NESTING TYPE STORE SERVICE CARRIER**
**William C. Enders, Oklahoma City, Okla.**
**Application October 14, 1948, Serial No. 54,539**
**10 Claims. (Cl. 280—33.99)**

1. A nesting type store service truck including a fixed frame, wheels supporting said frame, a nesting type basket pivotally supported intermediate its ends on said frame, a downwardly inclined guideway extending rearwardly from said basket for guiding a basket of a similarly constructed truck into nesting association, and guide

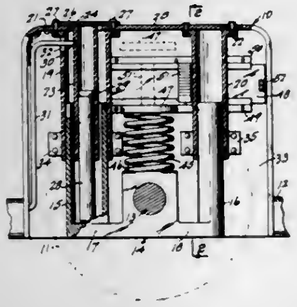
means comprising inter-engaging parts carried by the basket and frame for limiting the vertical



movement of the rear end portion of said basket on its pivot.

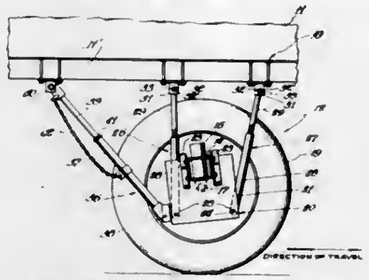
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**2,644,696**
**CONVERTIBLE SPRING AND HYDRAULIC LOADING MEANS FOR VEHICLES**
**Robert O. Bill, San Leandro, Calif.**
**Application November 5, 1949, Serial No. 125,810**
**4 Claims. (Cl. 280—44)**



1. Convertible elevating and lowering means and spring loading means for a vehicle having a bed and having axles comprising; an axle head for each axle and supported thereby; a telescopic guide and elevating and lowering means for each axle head and each comprising an inner sleeve and an outer sleeve, one slidable within the other with the inner sleeve fixed at its lower end to the axle head and the outer sleeve fixed to the bed; a hydraulic jack sealed within said telescopic guide member for exclusion of dirt and having a cylinder head bolted to the top of said outer sleeve with its plunger cooperating with said axle head, with said hydraulic jack removable and replaceable at will by detachment of said cylinder head from said top of said outer sleeve without disturbing the telescopic guide; a compression spring seated on each axle head, and a load carrying member supported by said bed and movable to two positions, in one of which said load carrying member cooperates between the top of said spring and the bed for support of the bed by the spring, and the load is transferred from the hydraulic jack to the spring, and in the other of which the load carrying member is non-cooperative and the spring is free with the load transferred to the hydraulic jack, and means for moving said load carrying member to either of its two positions.

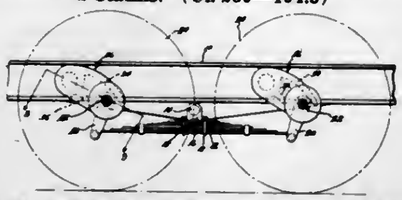
**2,644,697**
**REVERSIBLE CASTERING WHEEL STRUCTURE**
**Walter R. Peterson, Hinsdale, Ill., assignor to International Harvester Company, a corporation of New Jersey**
**Application April 18, 1951, Serial No. 221,689**
**5 Claims. (Cl. 280—80)**



5. In a wheeled carriage having a supporting structure, a caster wheel construction comprising a transversely extending axle, a socket member carried on said axle, a spindle supported in said socket, said spindle including a portion extending laterally outwardly with respect to the direction of movement of said carriage, a substantially vertical portion on said spindle, said substantially vertical portion being mounted in said socket for relative turning movement about a substantially vertical axis, a ground wheel journalled on the laterally extending portion of the spindle, an axle support rigidly connected to said axle, means shiftably connecting said axle to said supporting structure, said means including a first link pivotally connected to said supporting structure and to said axle support, a second link spaced rearwardly of the first link, said second link being pivotally connected to said supporting structure and to said axle support, said axle and socket being tiltable on said links in response to forward movement of the wheel whereby the axis extended of the substantially vertical portion of the spindle intersects the groundline at a point forwardly of the bearing contact of the wheel with the ground, said socket and substantially vertical portion of the spindle being tiltable in response to rearward movement of said wheel whereby the substantially vertical axis extended of the substantially vertical portion of the spindle intersects the groundline rearwardly of the bearing contact of the wheel with the ground and means for limiting the tilting movement of said axle and said socket.

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**2,644,698**
**TANDEM AXLE SUSPENSION CONSTRUCTION**
**Ray F. Thornton, Dexter, Mich.**
**Application August 10, 1948, Serial No. 43,517**
**2 Claims. (Cl. 280—104.5)**



1. A suspension construction for a vehicle comprising, a frame structure, a pair of longitudinally spaced wheels arranged in tandem at the opposite sides of said frame, a stub axle for each wheel, a shackle arm for each axle, a leaf spring interconnecting each pair of shackle arms at one side of said frame and pivotally supported on said frame, and a crank arm pivotally connected between each of said axles and said frame the length of said crank arm being substantially the same as the length of one of said shackle arms.



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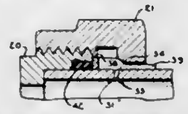
**2,644,699**
**COMBINED PNEUMATIC AND HYDRAULIC RESILIENT SUSPENSION AND SHOCK ABSORBING DEVICE FOR VEHICLES**
**Axel Hugo Weiertz, Malmo, and Stig Herbert Albert Weiertz, Svedala, Sweden**
**Application March 7, 1951, Serial No. 214,312**
**In Sweden March 8, 1950**
**13 Claims. (Cl. 280—124)**



1. In a wheeled motor vehicle having supports for supporting the body of the vehicle from the wheels thereof, a combined pneumatic and hydraulic resilient suspension and shock absorbing device comprising a circulation system for a liquid fluid mounted on the vehicle, a pressure-generating pump driven from the motor of the vehicle and connected in said circulation system for circulating the liquid fluid therein, a shock absorber acting between the vehicle body and any of the supports therefor and comprising a hydraulic cylinder and a piston movable therein, a chamber associated with said hydraulic cylinder and connected in said liquid fluid circulation system, a wall forming part of said chamber and having restricted ports providing communication between said chamber and the space on one side of said piston in said cylinder, and means for imprisoning in said chamber in separated relation to the liquid fluid and nevertheless subjected to the pressure thereof a sufficient amount of a gaseous fluid for causing the shock absorber to fulfill also the task of a vehicle spring.

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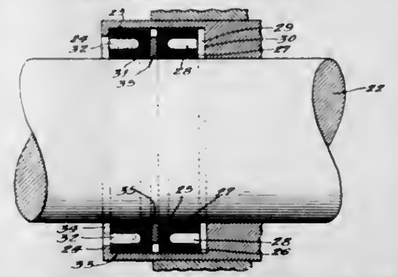
**2,644,700**
**TUBE COUPLING**
**George V. Woodling, Cleveland, Ohio**
**Application February 5, 1948, Serial No. 6,367**
**1 Claim. (Cl. 285—122)**



Sealing construction between an inner and outer member, said inner member having an exterior annular surface, said outer member having an interior annular surface surrounding the exterior annular surface, means including gripping means engaging the inner member for holding the inner member within the outer member, hollow sealing means comprising a body of resilient material having an outer surface area and an inner surface area, said hollow sealing means having a first body portion and a second body portion, said first body portion being internally radially enlarged and having its outer surface area fixedly bonded by bonding means directly to the interior annular surface of the outer member, said interior annular surface and said bonding means holding the inner surface area of said first portion of said hollow sealing means away from the exterior annular surface of the inner member by a small clearance, said outer surface area of said second body portion of said hollow sealing means being unbonded to and spaced from said interior annular surface of the outer member and having its inner surface area thereof sealingly surrounding the exterior annular surface of the inner member to provide a limited sealing contact area with the exterior surface of the inner member, said outer surface area of said second body portion terminating in an end surface area whereby pressure being sealed may pass around said end surface area and act radially upon the outer surface area of the second body portion to press the inner surface area of the second body portion against the exterior surface of the inner member, said first body portion having a terminating end surface area disposed opposite the end surface area of the second body portion, and means to support the terminating end surface of the first body portion against longitudinal movement in opposition to the fluid pressure acting against the end surface area of the second body portion.

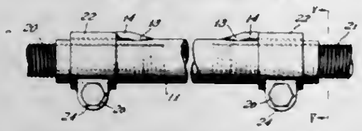
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**2,644,701**
**PISTON ROD SEAL**
**Francis S. Flick, Chicago, Ill., assignor to Miller Motor Company, a partnership composed of William J. Reedy and Francis S. Flick**
**Application November 10, 1948, Serial No. 59,377**
**8 Claims. (Cl. 286—26)**



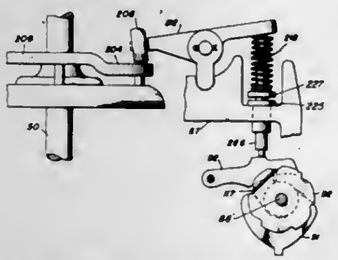
8. In a piston rod seal, a piston rod bushing having an annular open ended space around a piston rod, an integral inwardly extending annular flange at the free end of said piston rod bushing, and a pair of channel-shaped wiper members in said space, the channel in each wiper member forming an inner cavity, the channel in one of said wipers facing forwardly, and the channel in the other of said wipers facing rearwardly, said flange extending inwardly a distance to engage only the outer portion of said forwardly facing wiper, said seals having flat adjacent closed ends, a wiper washer between said closed ends for sliding movement longitudinally of said piston rod, said washer being of a size to pass between said piston rod and said inwardly extending flange, the cavity in the wiper having the rearwardly facing channel receiving oil under pressure to move this wiper forwardly, and the other wiper being resilient to resist said forward movement, the forwardly facing channel having open communication with the outside air through the opening in said annular flange.

**2,644,702**
**CLAMP POSITIONER**
**Matthew P. Graham, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application August 19, 1950, Serial No. 180,423**
**1 Claim. (Cl. 287—60)**



In a tubular clamping structure, a tube comprising a single curled sheet with longitudinally juxtaposed edges extending only part way of the length of the tube, the remaining part having a longitudinally extending gap, the junction of said gap and said abutting edges being defined by a finger offset laterally from one of said abutting edges and radially outwardly through and out of said gap with its end turned lengthwise of the tube over and spaced from said gap and terminating in an abutment edge at right angles to the tube.

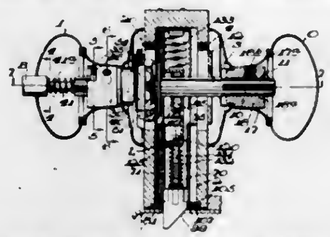
**2,644,703**
**TWINE KNOTTER**
**Carl S. Rudeen, Pocatello, Idaho**
**Application January 16, 1951, Serial No. 206,161**
**9 Claims. (Cl. 289—10)**



1. In a knotting mechanism including a bill-hook, a strand holder including peripherally notched holder plates, a pivoted holder trigger extending between said holder plates, a strand feeding needle for applying a strand to said holder plates and means for actuating said bill-hook, strand holder and strand feeding needle in timed relation, the improvement comprising; resilient means maintaining a yielding pressure urging said trigger between said holder plate for yieldingly clamping a strand in the peripheral notches, means for increasing the pressure of the resilient means upon the trigger during predetermined periods in the operation of the knotting mechanism.

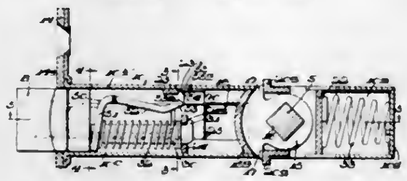
**2,644,704**
**DOOR LATCH MECHANISM**
**Gotthard Hagstrom, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa., a corporation of Pennsylvania**
**Application August 11, 1950, Serial No. 178,897**
**11 Claims. (Cl. 292—169)**

1. In a door latch mechanism, in combination; a latch bolt actuating, rotary spindle; a latch bolt unit including, a latch bolt mounted for movements between a projected position and retracted position, and actuating mechanism for retracting said bolt from projected position, said latch bolt being depressible from projected position to retracted position independently of said actuating mechanism, and said rotary spindle being operatively coupled with said latch bolt actuating mechanism; a locking member mounted for actuation between a position locking said spindle against rotation and a position releasing said spindle for rotation; an inner knob mounted on said spindle for rotating the spindle; a manually operable member mounted on said inner knob and being operatively connected with



said locking member for actuating said member to spindle locking position; a latching member mounted for actuation to and from position releasably latching said locking member in locked position; and an actuating member connected with said latch bolt and being adapted to engage said latching member by independent depression of said latch bolt to retracted position to actuate said latching member to unlatched position.

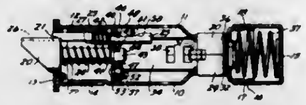
**2,644,705**
**DEAD LATCHING MECHANISM**
**Gotthard Hagstrom, Greenwich, Conn., assignor to The Safe Padlock and Hardware Company, Lancaster, Pa., a corporation of Pennsylvania**
**Application November 15, 1950, Serial No. 195,824**
**12 Claims. (Cl. 292—169)**



12. In a latch bolt mechanism, in combination; a case; a latch bolt mounted in said case for reciprocation between latching position projected from the case and retracted position; spring means adapted to continuously bias said latch bolt to said projected position; mechanism for engaging and retracting said latch bolt from said projected position; said latch bolt being depressible from projected position independently of said retracting mechanism; a fixed abutment in said case; a dogging member mounted in said case for movements between a dogging position engaged with said abutment to lock said latch bolt in projected position against depression and non-dogging position disengaged from said abutment to release said latch bolt for movement to dogging position; a constraining member mounted in position to be releasably engaged by said dogging member to constrain the latter member in non-dogging position when said latch bolt is in its projected position; and said dogging member adapted to be engaged by said latch bolt when depressed for displacement to a position released from said constraining member for movement of said dogging member to dogging position engaged with said fixed abutment.



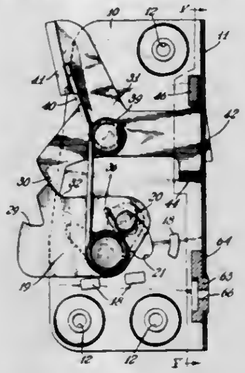
**2,644,706**
**LATCH**
**Frank J. McConnell, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut**
**Application May 18, 1950, Serial No. 162,735**
**5 Claims. (Cl. 292—172)**



1. In a latching device, said device comprising a main bolt and an auxiliary bolt longitudinally slidable relatively to each other, a retractor carriage with respect to which both said bolts may be longitudinally slidable, said carriage including a base extending transversely of said bolts and including means for slidably guiding said bolts, first abutment means on said main bolt for limiting outward displacement of said main bolt relatively to said carriage, means resiliently urging said main bolt to an outwardly projected position, a dog plate separate from and independently slidable over the surface of said base and guided by said carriage for limited transverse movement relatively to said bolts, second abutment means on said dog plate and engageable with said first abutment means in a first position of said dog plate and when said main bolt is in the extended position relatively to said carriage, said first and said second abutment means being disengaged from each other in a second position of said dog plate, whereby in said first position of said dog plate said main bolt and said carriage may be barred from relative longitudinal movement; while in said second position of said dog plate said main bolt and said carriage may be free for relative longitudinal movement, spring means urging said dog plate to one of said positions, and cam means acting against said spring means and cooperating between said auxiliary bolt and said dog plate for controlling the movement of said dog plate from one of said positions to the other of said positions upon a relative longitudinal displacement of said auxiliary bolt and of said carriage.

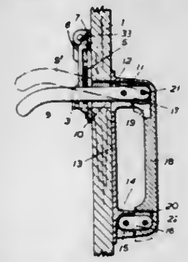
**2,644,707**
**AUTOMOBILE DOOR LATCH**
**Edward D. Dall, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan**
**Application October 29, 1949, Serial No. 124,355**
**3 Claims. (Cl. 292—216)**

1. In a door latch mechanism, a latch casing plate, a rockable latch bolt on the outside of said plate having two angularly disposed arms for successive cooperation with a keeper, one of which is biased into a generally upright position when the door is opened and the other of which is moved into a generally upright position by engagement of said one arm with a keeper when the door is closed, a ratchet plate on the inside of said casing plate mounted for rocking movement with said latch bolt about an axis coaxial with the axis of rocking movement of said latch bolt, a pawl member pivotally mounted on said casing plate for cooperation with said ratchet plate, said ratchet plate having two spaced detent shoulders, one of which forms a safety latch shoulder when engaged with said pawl member upon partial closing of the door and the other of which holds the door in a fully closed position when engaged with said pawl member, said pawl member also having an arm extending from its pivotal axis in a direction opposite from said ratchet plate for engagement with an outside operator to release the latch, and a common spring having engagement with said pawl member and said latch bolt and biasing said pawl member into engagement with said ratchet plate and also biasing said latch bolt with said one arm thereof in an upright position, said one arm pivoting said ratchet plate against said spring upon engage-



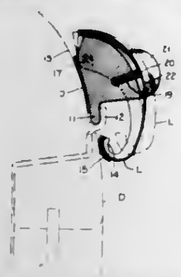
ment with a keeper and moving said ratchet plate into position to be progressively engaged by said pawl on said detent shoulders during door closing movement and to be positively held in engagement therewith by said spring acting on said latch bolt, and said spring also acting on said latch bolt in a direction to maintain said latch bolt in engagement with the keeper and to take up on the latch.

**2,644,708**
**FASTENING FOR GATES, DOORS, AND THE LIKE**
**George Bertram Poole, Knighton, Leicester, England**
**Application July 19, 1949, Serial No. 105,615**
**In Great Britain July 28, 1948**
**4 Claims. (Cl. 292—236)**



1. In a fastening of the type set forth for a hinged unit, a fall bar adapted for pivotal mounting on said unit at the inside thereof, a latch lift adapted to traverse said hinged unit, to be pivoted thereon, and to engage beneath said fall bar, a vertically-disposed hand grip pivotally connected to the end portion of said latch lift at the outside of said hinged unit, and guide means for securing on the outside of the hinged unit, said guide means engaging an end part of said hand grip spaced from the said latch lift and restraining this end part against substantial movement in the horizontal direction when the hand grip is moved downwardly to operate the latch lift.

**2,644,709**
**OUTSIDE AUXILIARY DOOR LOCK FOR AUTOMOBILES**
**Richard H. Diesel, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application December 11, 1947, Serial No. 791,016**
**7 Claims. (Cl. 292—258)**



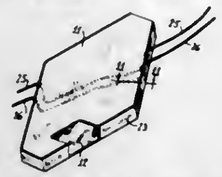
1. In a lock of the class described, a base having a portion thereof shaped to fit and rest within the rain groove of an automobile, a door holding part, means mounting said door holding part for adjustment relatively to said base, means on said base shaped to engage a surface of said automobile outwardly of said groove for locating said base and said mounting means in a predetermined relationship to said automobile, and means for securing said base portion within the rain groove and said holding part against the door through adjustment of said part and said base relatively to one another when said mounting means is in said predetermined relationship to said automobile.

**2,644,710**
**HASP**
**Alfred Lüling and Adalbert Lüling, Volmarstein an der Ruhr, Germany, assignors to F. W. Lüling G. m. b. H., Volmarstein an der Ruhr, Germany**
**Application August 10, 1950, Serial No. 178,576**
**In Germany August 20, 1949**
**3 Claims. (Cl. 292—281)**



1. A flexible hasp comprising in combination, two elongated hasp end sections, one of said hasp end sections formed with a slot and adapted to engage in said slot a hasp clasp of a door; a base plate hingedly connected with the other of said hasp end sections for securing said other hasp end section and thereby said hasp to the door frame movably only in one plane normal to the door; at least one intermediate hasp section located between said hasp end sections in longitudinal direction of said hasp, the transversal edges of said hasp sections located adjacent to a transversal edge of another hasp section being inwardly rolled so that two adjacent edges constitute a pair of substantially cylindrical transversally extending sockets; and a plurality of connecting links, each of said connecting links including two transversely extending hinge pins and two elongated connecting plates fixedly securing the ends of said two hinge pins together, the hinge pins of each of said links passing through a pair of said transversal sockets so as to hingedly connect said hasp sections.

**2,644,711**
**SEAL**
**Theodore Frankel, New York, N. Y.**
**Application December 21, 1949, Serial No. 134,251**
**3 Claims. (Cl. 292—322)**

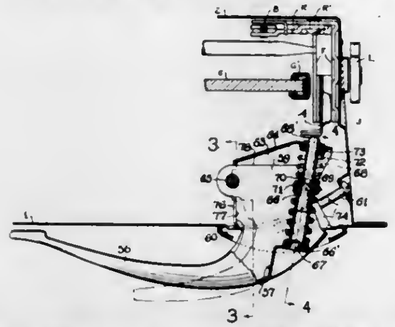


1. An unopenable seal comprising a pair of elongated similarly shaped plates formed of a resilient material, a web connecting said plates along a limited portion of the edges thereof at one end to provide a pivotal connection between the plates, said plates being formed with telescopic marginal flanges continuously along opposite edges thereof, each of said opposite edges of each plate having the end portions thereof, respectively adjacent the pivotal connection and the opposite end of the plate, inclined at an angle to each other, the outer one of the flanges being formed with an inwardly directed locking element on the edge thereof inclining toward the related plate, and the inner one of the flanges being formed with an outwardly directed locking element on the edge thereof inclined substantially parallel to the first mentioned locking element when the plates are in superposed position and located in registration with said first mentioned locking element so that the locking elements cam against each other as the plates are pivoted to superposed closed position for springing past each other, and with the plates once in said closed position, spring back to their unflexed positions to interengage and thus prevent separation of the plates.

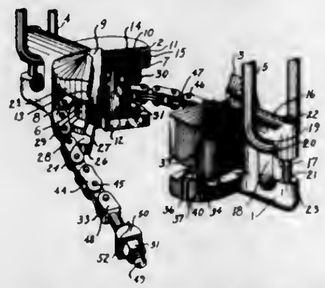
**2,644,712**
**CONTROL MECHANISM FOR DOOR LATCHES**
**Edwin L. Allen, Cleveland Heights, Ohio, assignor, by mesne assignments, to Rudolph I. Schonitzer, Cleveland, Ohio**
**Original application February 16, 1948, Serial No. 8,565, now Patent No. 2,573,679, dated November 6, 1951. Divided and this application August 18, 1951, Serial No. 242,476**
**11 Claims. (Cl. 292—336.3)**

10. Control mechanism for a door latch including a supporting frame mounted on the door; an exteriorly accessible manually operable handle pivotally supported on the frame for movement between a non-operating neutral position and a latch-releasing position; a bracket portion at the inner end of the handle, the walls of said bracket portion defining an enclosure facing away from the handle and toward the interior of the frame; stop means on the bracket portion for preventing excessive movement of the handle out of non-operating neutral position in latch-releasing direction; stop means on the frame cooperating with the stop means on the bracket portion; spring means interposed between the frame and the handle, said spring means consisting of a first coil spring of light construction and, opposing it, a second coil spring of heavy construction; a plunger within the coil spring of light construction, said plunger extending therefrom into juxtaposition to the latch; and, intervening between the plunger and the coil spring of heavy construction, thrust means for transmitting to the plunger forces imposed on the handle by the act of moving it out of non-operating neutral position in latch-releasing direction.



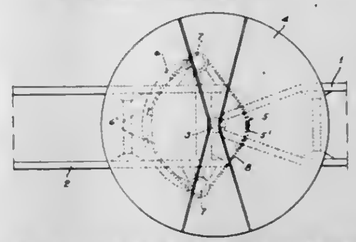


**2,644,713**
**ELEVATOR GRAPPLE**
**George E. Failing, Enid, Okla., assignor to George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma**
**Application September 10, 1949, Serial No. 115,026**
**5 Claims. (Cl. 294—86)**



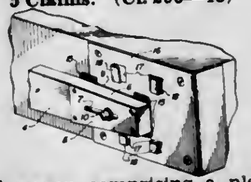
1. An elevator including jaw members having opposed gripping faces for engaging opposite sides of a member to be axially supported by the elevator when the elevator is in use, arms projecting from the jaws on sides thereof opposite said gripping faces, bails having connection with said arms and having transverse portions forming pivotal supports on which the jaw members rock into contact with said member to be lifted, one of said jaws having a way for passage of a chain around the arm side of said jaw member, hooks on one side of the other jaw member with the hooks being located with one hook above and the other below said way, said other jaw member having a slot on the opposite side in registry with said way and intersecting a shoulder of said other jaw member, a chain in said way having projections on opposite sides thereof for engagement with said hooks when a portion of one end of the chain is placed between said hooks, a toggle on the other end of said chain and having a shank portion extending through said slot, and a member on said shank portion of the toggle engaging said shoulder for retaining the jaws in contact with the member to be lifted.

**2,644,714**
**PLATFORM FOR CONNECTING THE CONTIGUOUS SECTIONS OF ARTICULATED VEHICLES**
**Giuseppe Chiapella, Turin, Italy, assignor to Officine Viberti Societa per Azioni, Turin, Italy**
**Application April 11, 1951, Serial No. 220,415**
**In Italy April 24, 1950**
**5 Claims. (Cl. 296—1)**



1. In an articulated wheeled vehicle comprising two sections and a hinge for articulately connecting said sections, a platform member rotatably mounted about the axis of said hinge, an arcuate sector on said platform, an arcuate sector on one of said sections, and flexible means wound on said sectors and secured to one of said sectors, whereby on relative angular displacement of the two sections said platform undergoes an angular displacement proportional to the ratio between the radii of curvature of said arcuate sectors.

**2,644,715**
**PIVOTED SIDE BARS FOR MILL WAGONS**
**Herbert A. Sammis, Huntington, N. Y.**
**Application December 28, 1949, Serial No. 135,505**
**5 Claims. (Cl. 296—43)**



1. A mill wagon comprising a platform-type bed upon which a load is adapted to be supported, a plurality of slotted side bars for embracing said load therebetween, means including a plurality of bolts extending through said slots for pivotally and slidably connecting said bars to the side of said bed, each of said means including a lateral support plate secured to the side of said bed and having lip portions spaced therefrom and forming between them a downwardly mutually tapering groove, a tapered wing secured to and extending laterally from the sides of the bar and adapted to wedge in said tapering grooves when slid downwardly therein to maintain the bar in upstanding relation to the wagon bed, said bolts being spring loaded to permit said bars to swing past said lip portions to a position parallel with said plate means.

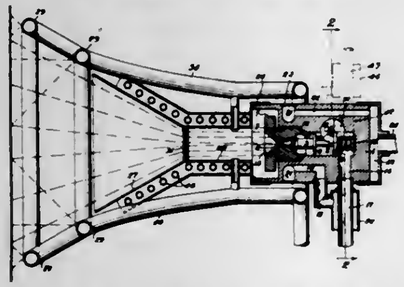
**2,644,716**
**DEFLECTOR PLATE**
**James C. McVicker, Ligonier, Pa.**
**Application July 21, 1950, Serial No. 175,083**
**1 Claim. (Cl. 296—91)**



A device for preventing rain and the like from reaching a vehicle windshield comprising a frame including base members adapted to be removably attached to the hood of a vehicle in front of and spaced apart from the windshield, a pair of spaced apart uprights extending from the base members on either side of the hood, a fixed shaft connecting the uprights, an auxiliary windshield rotatably mounted on said shaft, means engaging said auxiliary windshield and the uprights on the frame for controlling the rotation of the windshield and resilient means on the bottom of said auxiliary windshield extending therefrom to contact the hood and form an air foil with the auxiliary windshield.

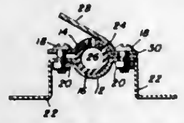
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**2,644,717**
**SPRAY DEVICE FOR LIQUIDS, THERMOPLASTICS, MOLTEN METAL, OR THE LIKE**
**Wilhelm Kopperschmidt, Hamburg, Germany**
**Application April 27, 1950, Serial No. 158,448**
**In Germany November 11, 1949**
**18 Claims. (Cl. 299—86)**



1. A spray device of the character described including a pressure-resisting spray chamber, a spray nozzle in one end wall of said spray chamber, a protective jet hood on said end wall and surrounding said spray nozzle, mechanical jet dispersing means within said hood, an inlet passage for spray medium to said spray chamber, a valve needle axially slidable within said spray chamber, a control shaft with attached actuating means, means on said valve needle engaging said actuating means, a removable bushing surrounding said control shaft at the point of its penetration through the chamber wall, an annular sealing surface on said bushing and a sealing surface in said chamber wall coacting with said annular sealing surface, said bushing being of such a size that said control shaft with attached actuating means can be withdrawn after removal of said bushing.

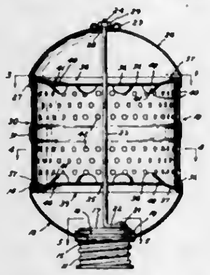
**2,644,718**
**SPRINKLING APPARATUS**
**Joseph O. Richard, Lake Worth, Fla.**
**Application August 20, 1951, Serial No. 242,709**
**3 Claims. (Cl. 299—106)**



1. A sprinkling apparatus comprising a conduit having a wall provided with an orifice, a clamp member secured to said conduit, a deflector plate secured to said clamp member and disposed in an oblique plane intersected by the axis of said orifice, and an inturned annular reinforcing flange provided on said clamp member and extending into said orifice.

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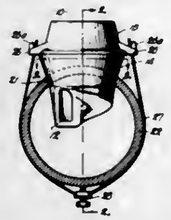
**2,644,719**
**IRRIGATOR**
**Harry L. Thomas, Tucson, Ariz.**
**Application March 19, 1951, Serial No. 216,395**
**10 Claims. (Cl. 299—107)**



2. In an irrigating device having a hose coupling and a perforated cylindrical barrel secured thereto and provided with a closed end, a pair of baffle members mounted at the ends of the perforated cylindrical barrel, each baffle member being dished toward the center of said cylindrical barrel and provided with struck-out tongues extending toward the center of the barrel, the openings provided by said struck-out tongues being located on the axial center side of said tongues, said baffle plate furthermost from said hose coupling having an enlarged center aperture about the diameter of said hose coupling.

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**2,644,720**
**INSERT NOZZLE**
**Clifford H. Carr, Kansas City, Mo.**
**Application December 16, 1949, Serial No. 133,418**
**10 Claims. (Cl. 299—114)**



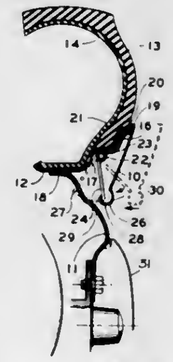
1. In combination, a fluid receptacle having an aperture in one wall thereof, a cup-shaped



member disposed in said aperture with its bottom on one side of said wall and its rim on the other, said member being larger in size at its rim than said aperture but tapering externally from the rim toward the bottom and the tapered portion being seated against the margin of said aperture, a second cup-shaped member inverted with respect to said first member and disposed with its rim abutting the rim of said first member whereby said cup-shaped members together form an enclosed whirl chamber of a spray nozzle, means for applying solely on said second member a force directed toward said wall thereby to maintain said rims together and hold said tapered portion seated against the margin of said aperture, said second member containing a fluid port, said first member containing a fluid port on the opposite side of said wall from said first port whereby fluid is adapted to flow from said receptacle through said chamber via said ports, and one of said fluid ports comprising a tangential inlet passage for said whirl chamber.

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**2,644,721**
**VEHICLE WHEEL ORNAMENTAL TRIM RING CONSTRUCTION**
**Robert S. Grimshaw, Detroit, Mich.**
**Application January 19, 1949, Serial No. 71,601**
**5 Claims. (Cl. 301—37)**

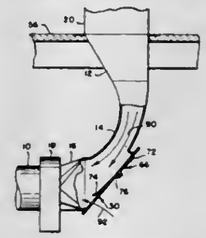


1. An ornamental wheel trim ring attaching means and trim ring assembly for removable attachment to an automobile wheel having a tire rim, an inflatable tire and a hub cap, said attaching means consisting of a plurality of one piece spring wire clips embracing the outward tire rim flange and inward configurations at spaced intervals therearound and having a portion projecting inwardly and toward the axis of said wheel, the inward projecting portion engaging with and removably locking the ornamental trim ring to the wheel.

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**2,644,722**
**AUTOMATIC DIVERTER FOR PNEUMATIC CONVEYERS**
**Randall J. Childress, Norwalk, Calif., assignor to General Mills, Inc., a corporation of Delaware**
**Application May 22, 1950, Serial No. 163,554**
**12 Claims. (Cl. 302—32)**

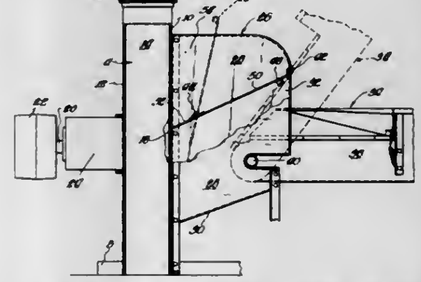
1. An automatic diverter for a pneumatic conveyer having a suction leg and a hopper above the leg for supplying material downwardly by gravity flow to the leg, comprising an inclined wall guiding and supporting the material between the hopper and leg, said wall having an air inlet opening therein, a valve plate, and means pivotally mounting the plate in said opening for rotation on an axis lying in the plane of the wall and extending transversely thereof, between an operating position in which the plate lies in the plane of the wall and guides the material to the leg, and a dumping position in which it intercepts the material from the hopper and



diverts it away from the suction leg, the relative area, weight and location of the plate and the relative location of its pivotal axis requiring automatic movement of the plate from operating to dumping position in response to substantial reduction in the volume rate of flow through the suction leg.

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**2,644,723**
**FEEDING MEANS FOR BLOWERS**
**Edward J. Johnston, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey**
**Application April 18, 1951, Serial No. 221,671**
**15 Claims. (Cl. 302—37)**



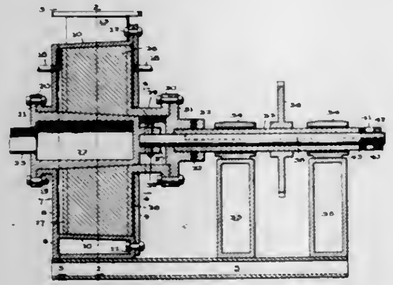
1. In a feed for a material blower having a material inlet opening, baffle means supported in the path of the material flowing into the opening and directly engageable and automatically movable thereby across the opening to vary the material accepting area thereof while simultaneously uncovering the remaining area of the opening to the entry of air.

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**2,644,724**
**FEEDER FOR FLUID CURRENT CONVEYERS**
**Haavard Kronstad, near Mahoningtown, Pa.**
**Application April 12, 1951, Serial No. 220,672**
**14 Claims. (Cl. 302—49)**

1. In apparatus to feed material to a fluid current conveyer, a housing encompassing a feed chamber, having feed and discharge ports, and comprising a peripheral wall defining its perimeter, said wall having an inner smooth circular bearing surface, a nave fixed in said housing concentric with said bearing surface having an outer smooth bearing surface, the bearing surfaces of

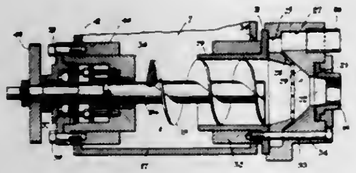
said wall and said nave being inclined in substantially the same angle with respect to the nave axis and in convergent disposition to each other, a feed wheel rotatable on said nave with a tapered



bore conforming, respectively, to the inclination of said wall and nave surfaces, said wheel having pockets communicable successively with said feed and discharge ports, means to rotate said wheel, and means to shift said wheel axially.

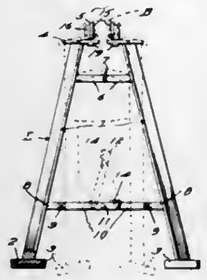
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**2,644,725**
**CEMENT APPLYING APPARATUS**
**Robert M. Doull and Marko Radonich, Montreal, Quebec, Canada, assignors to Piling Limited, Montreal, Quebec, Canada**
**Application May 29, 1948, Serial No. 30,173**
**1 Claim. (Cl. 302—50)**



In apparatus of the character described, an aggregate-containing chamber having a horizontally disposed tubular outlet through which the aggregate is discharged therefrom, a feed screw arranged in said chamber with a portion only of the screw extending into said tubular outlet and terminating short of the discharge end of said outlet, a conical air chamber into which the discharge end of said outlet opens, said conical air chamber having its base portion adjacent said outlet and being provided, at its apex, with a discharge outlet in axial alignment with said tubular outlet, a closed air channel surrounding the base of said air chamber and having a compressed air inlet and a circular series of air passages through which separate streams of compressed air are delivered from said air chamber to said conical chamber, said air passages opening into said conical chamber at a point substantially midway between the base and the apex of said chamber and being inclined so that the streams of air delivered therethrough are directed along lines paralleling a conical surface of the air chamber adjoining the outlet of said air chamber, means for supplying compressed air to the compressed air inlet of said channel and a material conveying conduit having its receiving end connected to the outlet of said air chamber.

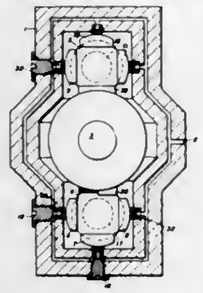
**2,644,726**
**COLLAPSIBLE SAWHORSE**
**William E. Miller, Los Angeles, Calif.**
**Application March 17, 1950, Serial No. 150,159**
**1 Claim. (Cl. 304—5)**



In a saw horse, a leg unit comprising two legs, means for pivotally connecting the upper portions of the legs, means for limiting the extent of outward swinging movement of the lower portions of the legs as permitted by the pivotal connection between the upper portions, a plate fixed to the top of each of the two legs of the unit, said plates being disposed in a common horizontal plane when the legs are swung to the limit of their outward movement, each of said plates having openings spaced apart in a direction transversely of the horse, a clamping jaw for each plate, a shank projecting beyond an edge of each jaw and passing from above through a selected opening, and an angularly disposed arm carried by the shank to engage the plate from below upon application of outward pressure to the clamping jaw.

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**2,644,727**
**DOUBLE-BALL GYRO PRECESSION AXIS BEARING**
**Vernon A. Tauscher, Los Angeles, John M. Slater, Inglewood, and James Emmi, Los Angeles, Calif., assignors to North American Aviation, Inc.**
**Application October 18, 1949, Serial No. 121,964**
**11 Claims. (Cl. 308—9)**

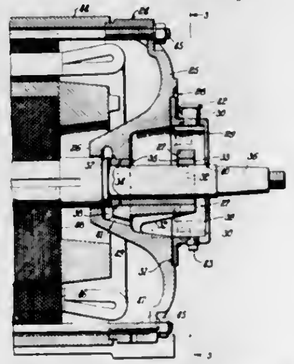


1. Means for supporting a mass with a single degree of angular freedom comprising a pair of truncated spheres rigidly attached to opposite sides of said mass, a rigid frame surrounding said mass and said spheres, a plurality of pads having inner surfaces corresponding to the surfaces of said spheres supported by said frame for three degrees of freedom and spaced therefrom, and conduit means through said frame and said pads for furnishing air under pressure to the spaces between said pads and said spheres to form an air film between said pads and said spheres to thereby support said mass rigidly without appreciable friction and with a single degree of angular freedom.



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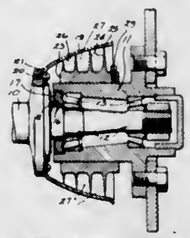
**2,644,728**
**CANTILEVER TYPE BEARING**
**Ross D. Ingalls, New Providence, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**
**Application April 24, 1948, Serial No. 23,065**
**2 Claims. (Cl. 308—22)**



1. A bearing assembly comprising a support formed with an annular portion having at one end a transverse web and at the other end an apertured portion, a bearing boss secured at one end to said web and provided with a bore disposed coaxially with said annular portion and extending through said apertured portion with its free end beyond the end of said annular portion, a shaft-receiving bearing sleeve disposed in said bore, and a cap forming a removable closure element for said bearing assembly and provided with a central aperture in coaxial alignment with said bearing bore.

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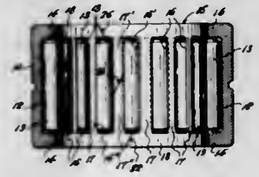
**2,644,729**
**DUST SEAL**
**Robert A. Bailey, Sarona, Wis.**
**Application October 20, 1949, Serial No. 122,520**
**3 Claims. (Cl. 308—187.1)**



1. In a dust seal assembly, the combination with inner and outer relatively rotatable bearing elements having bearing means closed at one end and open at the other, of a dust seal for the open end of said bearing means comprising inner and outer seal members respectively connected with the bearing elements, said outer member having its inner surface flaring outwardly from the inner member in a direction axially of said members away from the open end of the bearing means, and a series of annular fins on the inner member and tapering outwardly to knife edges with only running clearance in intimately spaced relation to said inner surface, said fins being progressively of greater radius from a minimum adjacent the open bearing end to a maximum at a point axially remote therefrom, whereby to provide a succession of dust fractionating chambers through which dust can reach the open bearing end only by passing a succession of said fins and a succession of intervening chambers of progressively smaller radius.

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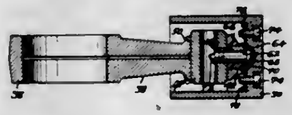
**2,644,730**
**ROLLER SUPPORTING CAGE FOR ROLLER BEARINGS**
**Joseph Levine, Irvington, N. J.**
**Application March 5, 1952, Serial No. 274,919**
**2 Claims. (Cl. 308—213)**



1. In a roller bearing having an annular channel forming a raceway and anti-friction rollers housed in and across said raceway, a discontinuous cylindrical roller retaining cage having slots to embrace said rollers including terminal slots respectively adjacent the respective meeting ends of said cage, said slots being separated by transverse web members extending between longitudinal marginal portions of the cage, said meeting ends of the cage being correspondingly cut to provide, when abutted, an oblique middle joint extending across the web member between said terminal slots, and outer oppositely inclined oblique joints respectively extending across the respective longitudinal marginal portions of the cage, one from an end of one terminal slot and the other from the opposite end of the other terminal slot.

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**2,644,731**
**PISTON AND ROD CONNECTION**
**Ralph W. Doeg, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland**
**Application December 13, 1950, Serial No. 200,653**
**6 Claims. (Cl. 309—16)**

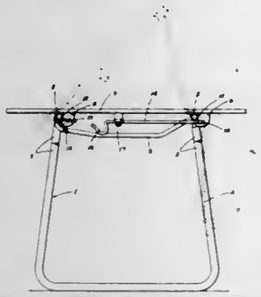


1. In a piston-connecting rod assembly, a connecting rod end, a coupling member rotatably engaging said connecting rod end, a piston, a plate member interposed between said coupling member and an adjacent end of said piston, said plate member being formed with a curvature, means securing said plate member adjacent its outer periphery against said piston end, an abutment on said coupling member inwardly of said securing means engaging against one side of said plate member, a recess in said piston end overlying said abutment surface, fulcrum means on said coupling member on opposite sides of said abutment engaging said plate member outwardly of said recess, and a single fastener securing said

plate member to said abutment and co-operable with said securing means to tension said plate member flat against the adjacent end of said piston.

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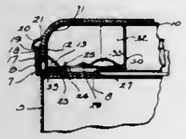
2,644,732
**TABLE AND EASEL COMBINATION**
**Leslie L. Westcamp, Fair Oaks, Calif.**
**Original application January 29, 1949, Serial No. 73,596, now Patent No. 2,607,646, dated August 19, 1952. Divided and this application June 6, 1952, Serial No. 292,053**
**3 Claims. (Cl. 311—38)**



1. A combined table and drawing easel comprising an upstanding support having spaced, parallel top bars, a flat, rigid panel above the support, cross cleats secured on the under side of the panel in position to engage lengthwise alongside corresponding top bars, one cross cleat engaging the inner side of one top bar and the other cross cleat engaging the outer side of the other top bar, each cross cleat having a longitudinal groove in which the corresponding top bar engages, and a turn-catch on said one cross cleat releasably intersecting said one top bar in holding relation.

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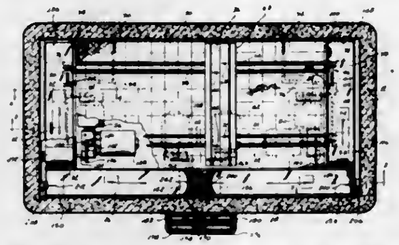
2,644,733
**EDGE BINDER FOR FURNITURE WITH COVERED METAL TOPS**
**Karl E. Castle, Washington, D. C., assignor to Invincible Metal Furniture Company, Manitowoc, Wis., a corporation of Wisconsin**
**Application June 2, 1949, Serial No. 96,685**
**4 Claims. (Cl. 311—107)**



1. The combination with a piece of furniture provided with a substantially continuous upstanding marginal rim, of a top having a depending upright wall disposed within the rim and provided with inwardly turned flange means, a substantially continuous binding strip intervening between said rim and said wall, and having a shoulder seated on the top of said rim, said strip being provided with top supports extending inwardly beneath said flange means in supporting relation thereto and free of permanent connection therewith, and clamp means connected with the furniture and engaged with the flange means of said top and acting thereon to hold said top to said furniture while exerting downward pressure through said supports upon said binding strip, said binding strip comprises a bead portion extending curvilinearly from said shoulder inwardly toward said wall and having a free margin embracing said wall below the level of said top, said top including a facing lamination engaged by said margin.

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2,644,734
**BEVERAGE VENDING MACHINE**
**Christian Gabrielsen, Whippany, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York**
**Application April 25, 1950, Serial No. 158,019**
**18 Claims. (Cl. 312—97)**



1. A vending machine including in combination a housing, a horizontally positioned storage shelf carried within said housing for supporting a plurality of articles to be vended, a pair of rollers carried adjacent one end of said housing, an endless feed belt positioned on said rollers with its upper surface coplanar with said storage shelf, a second pair of rollers positioned within said housing, an endless delivery belt carried by said rollers and extending at right angles to said feed belt said delivery belt being adapted to receive articles being vended from said feed belt, a pusher for transferring a plurality of articles from said storage shelf to said feed belt, a coin-controlled means for moving said feed belt to deliver an article therefrom to said delivery belt, means responsive to the movement of an article from said feed belt to said delivery belt for stopping the movement of said feed belt and for initiating the movement of said delivery belt and means responsive to the movement of an article being carried by the delivery belt to a predetermined vending position for stopping the movement of said delivery belt.

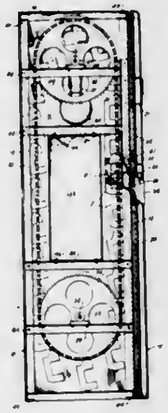
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2,644,735
**PACKAGE VENDING MACHINE WITH DUAL CONVEYERS ARRANGED FOR ALTERNATE DELIVERY**
**Frazier N. James, Dallas, Tex., assignor to Lone Star Vender Corp., Dallas, Tex.**
**Application April 4, 1951, Serial No. 219,251**
**5 Claims. (Cl. 312—97)**

1. In a vending machine, the combination comprising a supporting structure; a pair of vertically spaced rotatable shafts mounted on said supporting structure; two pairs of sprockets mounted on each shaft; two pairs of endless chains, each chain extending about an aligned pair of sprockets on the two shafts; a set of carriers pivotally hung on and between each pair of chains, each of said carriers being adapted to hold a bulky object; each of said carriers having open backs, sides and top and a bottom formed of confronting flanges defining an open slot; spaced apart bosses on the backs of each of said carriers, a pair of inclined and stationary sliding plates, each slide plate being disposed in



the path of travel of one set of carriers and passing through the slots between the flanges forming the bottoms of the carriers as the carriers are moved downwardly past each sliding plate, the object held by each carrier being held by said bosses in spaced relation to the back of said carrier for engagement by said sliding plate to effect discharge of said object from its carrier and onto a sliding plate as its carrier is moved down past the sliding plate, a positioning plate above each sliding plate against which objects on said carriers engage to predispose the same for discharge, the lower portions of said positioning plates being arranged in spaced parallelism to said sliding plates to preclude over-

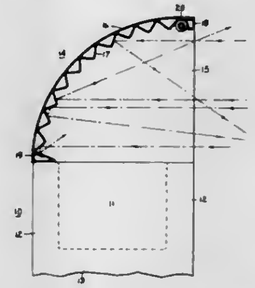


turning of said objects during their discharge, a motor connected to one of said shafts for rotating the shaft and moving each set of carriers past its associated sliding plate, the carriers of one set being disposed in vertically staggered relation to the carriers of the other set; the sliding plates being in vertically parallel relation to cause objects to be dispensed alternately from each set of carriers as said one of said shafts is rotated; a coin operated switch for starting the motor; and a pair of switches for stopping the motor, each switch being disposed in the path of travel of objects dispensed from one set of carriers whereby the motor is stopped each time an article is dispensed.

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2,644,736
**HEAT REFLECTING HOOD**
**Leonard W. Atchison, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application November 9, 1951, Serial No. 255,659**
**3 Claims. (Cl. 312—237)**

1. A refrigerated display case comprising a bottom wall, two upright side walls, an upright front wall, and an upright rear wall forming an open-top compartment, and a hood extending over said compartment, said hood comprising two sector-shaped side walls extending upwardly from said compartment side walls and a curved wall extending between the said sector-shaped side walls, said curved wall extending from the upper edge of said rear wall and terminating along a line directly above and spaced from said front wall whereby access may be had to the said compartment, the interior of said curved wall having a corrugated heat reflecting surface extending longitudinally thereof, said surface being constructed and arranged to reflect outwardly through the opening



directly above said front wall heat rays entering said opening and impinging on said surface.

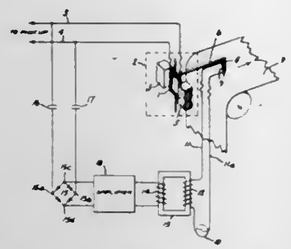
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2,644,737
**WASTE RECEPTACLE**
**Harold G. Davis, Denver, Colo.**
**Application July 21, 1947, Serial No. 762,438**
**4 Claims. (Cl. 312—270)**



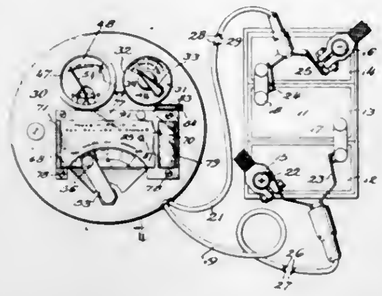
1. A waste receptacle comprising a drawer provided with an upstanding front and a bottom having a pair of front and a pair of rear rollers mounted on the underside thereof and side rollers adjacent the rear end thereof, said drawer also including an upstanding yoke attached to said bottom adjacent the rear end thereof and a bracket attached to said yoke and to each side of said front adjacent the upper ends thereof; a waste container adapted to be supported on said bottom, said bracket defining a space for receiving said container; housing means for said drawer, said underside bottom rollers supporting said drawer for movement on a floor or the like substantially independently of said housing means; a lever pivoted at its lower end on said housing means at one side of the path of movement of said drawer and provided at its upper end with a laterally extending rod having a roller engageable with said yoke, for moving said drawer inwardly and outwardly upon corresponding movement of said lever; a link pivotally connected to said lever adjacent the lower end of the latter; a pedal pivotally mounted on said housing means and having a portion accessible to a user of said receptacle for depression to cause forward and downward movement of said pedal; a pin pivotally connecting said pedal with the forward end of said link, whereby said drawer is moved forwardly upon depression of said pedal; a spring attached at its front end to the rear end of said link and at its rear end to said housing means, said spring also being adapted to pull said drawer rearwardly; and a sealing plate for said container suspended from said housing means by a pivotal, lost motion connection forwardly of the center of gravity of said plate.

2,644,738
**RECORDING DEVICE**
**George F. Gardner, Scotia, N. Y., assignor to General Electric Company, a corporation of New York**
**Application March 22, 1951, Serial No. 217,007**
**4 Claims. (Cl. 346—76)**



1. In an inkless recorder having a recording range for recording variations in an electrical quantity on a record sheet having an energy sensitive recording surface, a marking member disposed adjacent said recording surface and movable in response to variations of said electrical quantity, means connected to the source of electrical quantity to be recorded for deriving a control signal that varies throughout said recording range in accordance with said variations of said electrical quantity, and electrical connections for supplying energy to said recording surface through said marking member in accordance with the control signal to effect an energy supply to said recording surface responsive to said variations of said electrical quantity throughout said recording range.

2,644,739
**BATTERY TESTER**
**Jasper C. Hammond, Minneapolis, Minn., assignor to Franklin Transformer Manufacturing Company, Inc., Minneapolis, Minn., a corporation of Minnesota**
**Application February 7, 1949, Serial No. 74,981**
**5 Claims. (Cl. 346—79)**

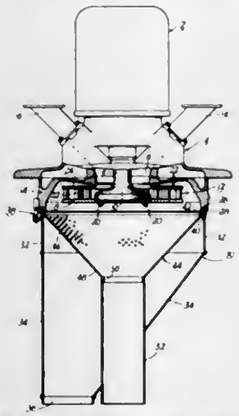


2. An indicator for battery testing apparatus comprising a casing, a manually movable member which is movable by the tester, a removable impression receiving means positioned in said casing, indicia on said impression receiving means to indicate battery condition, manual means associated with said manually movable member for marking said impression means and means on the impression receiving means and said movable member for indexing the impression receiving means with respect to the casing and for moving the said impression receiving means when desired.

# CHEMICAL

2,644,740
**METHOD AND APPARATUS FOR TREATING PRODUCTS, INCLUDING DESTROYING INSECT LIFE, DISINTEGRATING, CLEANING, AND SEPARATING**
**Robert B. Dodds, Woodbridge, Arthur N. Hibbs, Mount Carmel, and James D. Napier, Hamden, Conn., assignors to The Safety Car Heating and Lighting Company, Inc., a corporation of Delaware**
**Application October 4, 1948, Serial No. 52,756**
**14 Claims. (Cl. 21—2)**

14. In the art of treating a cereal product such as wheat for the destruction of insect life and for the separation of constituent parts therefrom, the steps of, passing the stream of the product with an accompanying stream of air substantially horizontally through a treatment zone by subjecting the product particles to high velocity centrifugal action, subjecting the product particles to an impacting action during their passage through said treatment zone of sufficient magnitude to destroy and comminute insect life therein, discharging the product stream with the air in a substantially flat thin horizontal whirling high velocity stream, deflecting the stream downwardly while substantially maintaining its angular velocity, converging said stream during its downward movement, subjecting the stream of product to a screening action and at the same time expanding the air laterally of the converging path of movement of the stream whereby there is withdrawn from the downwardly moving stream small constituent particles thereof including the comminuted insect life together with a substantial amount of air, discharging said



small particles and comminuted insect life downwardly, and directing the larger particles of the stream downwardly along a predetermined path confined from the path of the withdrawn particles.



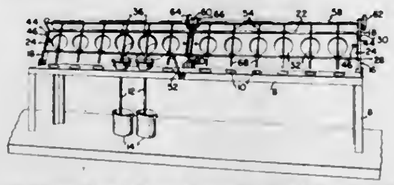
2,644,741
**CARBONACEOUS ADDITIVE FOR MOLDING SAND**
**Edward H. King, Cincinnati, and Joseph S. Schumacher, Mariemont, Ohio, assignors to The Hill & Griffith Company, Cincinnati, Ohio, a corporation of Ohio**
**No Drawing. Application June 1, 1951, Serial No. 229,546**
**3 Claims. (Cl. 22—188)**

1. A carbonaceous additive for molding sand, said additive comprising 90 to 30 per cent pulverized bituminous plastic by weight and 10 to 70 per cent pulverized furfural residue said furfural residue being the solid residuary product resulting from the acid hydrolysis of pentosan containing material to form furfural by weight mixed together to constitute a homogeneous body which does not cake in storage but has adhesive properties when used.

2,644,742
**PROCESS AND CHARGE FOR MANUFACTURING SODIUM SILICATE GLASSES**
**Robert C. Danison, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware**
**No Drawing. Application February 24, 1950, Serial No. 146,161**
**11 Claims. (Cl. 23—110)**

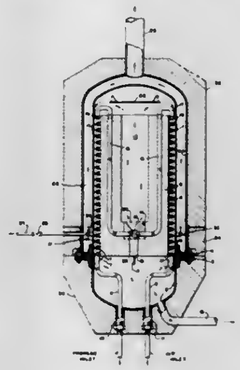
10. A charge for a sodium silicate furnace adapted upon fusion to yield a sodium silicate glass having a mol ratio of $Na_2O$ to $SiO_2$ of 1:1 to 1:3.7 comprising silica, a substance chosen from the group consisting of soda ash, caustic soda, and sodium bicarbonate, and a small amount of a light mineral oil.

2,644,743
**POURING APPARATUS FOR FILTERING OPERATIONS**
**Galen H. Clevenger, Newtonville, Mass., and Loran A. Creglow, Salt Lake, Utah**
**Application April 15, 1948, Serial No. 21,258**
**3 Claims. (Cl. 23—259)**



1. Pouring apparatus comprising a funnel rack having openings to receive funnels, a tiltable frame having provision for holding beakers in alignment with the several openings of the funnel rack, means for tilting the frame to turn the beakers into pouring position, a plurality of pouring and retaining rods to align with the lips of the individual beakers, a single rod-supporting member on which all of the rods are mounted at their ends, said rod-supporting member extending across the frame above and in back of the beakers so that the rods extend downwardly and forwardly to engage only the lip portions of the beakers, manual means for rotating the rod-supporting member independently of the tiltable frame to cause gang-swinging of the rods toward or away from engagement with the beakers, and a locking device for the rod-supporting member to hold the rods in beaker-retaining position, the rods and rod-supporting member being movable with the frame when the frame is tilted, whereby the relationship of any rod with respect to a beaker is maintained throughout the tilting movement.

2,644,744
**REACTOR FOR HIGH-TEMPERATURE CRACKING**
**Karl T. Hartwig, Glen Ellyn, and Charles H. Watkins, Western Springs, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application February 26, 1951, Serial No. 212,744**
**5 Claims. (Cl. 23—284)**

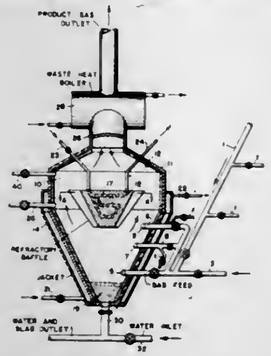


5. A reactor comprising an elongated chamber, a tubular member positioned concentrically and longitudinally in the chamber and having a relatively thick refractory body portion spaced from the chamber walls and a relatively thick refractory end closure spaced from the corresponding end of the chamber, the opposite end of the tubular member being open to provide communication between the interior of said member and the annular space between said body portion and said chamber, reactant stream inlets extending through said end of the chamber, pipe coils connected to said inlets and positioned in said annular space around said body portion of the tubular member, a mixing chamber formed within said relatively thick end closure and discharging into the interior of the tubular member, gas conducting conduits embedded in said body portion of the tubular member and connecting said pipe coils with said mixing chamber, and a gas outlet from said end of the first-mentioned chamber.

2,644,745
**PRODUCTION OF GASES FROM CARBONACEOUS SOLIDS**
**Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application April 1, 1947, Serial No. 738,700**
**7 Claims. (Cl. 48—203)**

1. In the process of converting solid carbonaceous ash-containing materials into gases containing carbon monoxide, the improvement which comprises forming a suspension of finely divided carbonaceous ash-containing solids in a gaseous medium containing oxygen in admixture with a member selected from the group consisting of steam, carbon dioxide and mixtures thereof, forcing the resulting suspension at a high linear velocity tangentially into a lower part of an up-

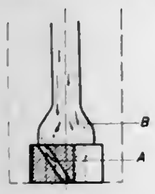
right extended conversion zone having a circular horizontal cross-section and thereby causing violent agitation of said suspension in said conversion zone, maintaining in said conversion zone a pressure between atmospheric and about 400 lbs. per square inch and a conversion temperature above the fusion point of the ash constituents of the carbonaceous solids in the range from 2100 to 2500° F., passing the introduced suspension upwardly through the conversion zone, providing a gradually increasing conversion space for said upwardly passing suspension, thereby gradually reducing the linear velocity of the




suspended gas during its upward path through said conversion zone and thus causing fused ash to be deposited on the circumference of the conversion zone and to collect in a slag collecting zone located at the bottom of the conversion zone, cooling the walls of said conversion zone by indirect heat exchange to a surface temperature just below the fusion point of said ash constituents to form a thin solidified layer of fused ash on the walls of the conversion zone, withdrawing a gas which contains carbon monoxide from an upper portion of said conversion zone and separately withdrawing fused ash constituents from said slag collecting zone.

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**2,644,746**
**PROCESS FOR REFINING STEEL WITH PURE OXYGEN**
**Hubert Hauttmann, Linz (Danube), Austria, assignor to Vereinigte Oesterreichische Eisen- und Stahlwerke Aktiengesellschaft, Linz (Danube), Austria**
**Application August 22, 1950, Serial No. 180,808**
**In Austria August 31, 1949**
**4 Claims. (Cl. 75—60)**



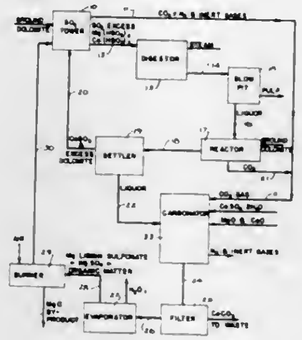

1. A process for refining steel with pure oxygen, comprising directing a stream of oxygen onto the surface of the melt and rotating said stream about its axis to cause rotation of the slag at the point of impact and free the surface of the metal to enable direct contact between the oxygen and the melted metal.

**2,644,747**
**FERROUS ALLOYS**
**Mathias L. Eder, Canton, Ohio; Louise J. Eder, executrix of said Mathias L. Eder, deceased, assignor to Louise J. Eder, Canton, Ohio**
**No Drawing. Application February 20, 1950, Serial No. 145,315**
**10 Claims. (Cl. 75—128)**

1. A ferrous alloy containing about 1% to 3.75% carbon, about 1% to 3% chromium, about 1% to 3% nickel, about .25% to 4% molybdenum, about 1.5% silicon, and about .25% to 3% vanadium, the remainder of said alloy being iron.

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**2,644,748**
**SULFITE WASTE TREATMENT PROCESS**
**George L. Cunningham, Brooklyn, N. Y., assignor, by mesne assignments, to Chempatents, Inc., New York, N. Y., a corporation of Delaware**
**Application November 4, 1946, Serial No. 707,707**
**6 Claims. (Cl. 92—2)**




6. In the cyclical method of making substantially calcium-free magnesia and pulp by the digestion of a cellulosic fibrous material in a cooking liquor of magnesium and calcium bisulphites, and separating the pulp therefrom, the steps of neutralizing waste liquor from the digestion by the addition of dolomite to precipitate a portion of the calcium as calcium sulfite, separating the thus formed precipitate from the waste liquor to form a solution rich in magnesium salts, delivering the precipitate to a sulfur dioxide absorption tower for contact with sulfur dioxide to form the corresponding bisulfite, recycling the latter to the digestion step, adding burned dolomite to the solution rich in magnesium salts in an amount whereby the magnesium ions therein exceed the calcium ions, adding calcium sulphate to the solution rich in magnesium to replace sulfur losses from the system, carbonating the solution to precipitate calcium therefrom as calcium carbonate, separating the precipitated calcium carbonate from the solution rich in magnesium salts, form a substantially calcium free solution of to magnesium salts, discarding the precipitated calcium carbonate from the system, concentrating the calcium-free solution, igniting the concentrated solution to liberate sulfur dioxide and form magnesia, recycling the liberated sulfur dioxide to the absorption tower, and introducing an aqueous suspension of dolomite into the absorption tower to replace materials discarded from the system.



**2,644,749**
**PAPER MAKING PROCESS UTILIZING MODIFIED LOCUST BEAN GUM**
**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application December 16, 1948, Serial No. 65,717**
**3 Claims. (Cl. 92—21)**

3. In a process of making paper from an aqueous suspension of fibrous material, the step which comprises adding, to said suspension, after all operations designed to substantially modify the fibrous constituents by mechanical means are completed and prior to the formation of the web, an aqueous solution of a cooked mixture containing from 85 to 90 parts by weight of locust bean gum, from 5 to 10 parts by weight of an alkali metal borate and from 2 to 6 parts by weight of an aldehyde selected from the group consisting of glyoxal and pyruvic aldehyde, the amount of cooked mixture of gum, borate and aldehyde in the solution being an appreciable amount up to about 1.5 parts per 100 parts of fibrous materials in the aqueous suspension, both parts being based on the dry weight thereof.

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**2,644,750**
**PAPER MAKING PROCESS UTILIZING MODIFIED LOCUST BEAN GUM**
**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application June 26, 1951, Serial No. 233,698**
**3 Claims. (Cl. 92—21)**

3. In a process of making paper from an aqueous suspension of fibrous material, the step which comprises adding, to said suspension, after all operations designed to substantially modify the fibrous constituents by mechanical means are completed and prior to the formation of the web, an aqueous solution of a cooked mixture containing from 85 to 90 parts by weight of locust bean gum, from 5 to 10 parts by weight of a sodium borate and from 2 to 6 parts by weight of a salt selected from the group consisting of ammonium chloride and aluminum sulfate, the amount of cooked mixture of gum, borate and salt in the solution ranging from an appreciable amount up to about 30 lbs. per ton of fibrous material in the aqueous suspension, both based on the dry weight thereof.

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**2,644,751**
**PAPERMAKING PROCESS UTILIZING MODIFIED LOCUST BEAN GUM**
**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Original application December 16, 1948, Serial No. 65,717. Divided and this application June 26, 1951, Serial No. 233,697**
**3 Claims. (Cl. 92—21)**

3. In a process of making paper from an aqueous suspension of fibrous material, the step which comprises adding, to said suspension, after all operations designed to substantially modify the fibrous constituents by mechanical means are completed and prior to the formation of the web, an aqueous solution of a cooked mixture containing from 85 to 90 parts by weight of locust bean gum, from 5 to 10 parts by weight of a sodium borate and from 2 to 6 parts by weight of citric acid, the amount of cooked mixture of gum, borate and acid in the solution ranging from an appreciable amount up to about 30 lbs. per ton of fibrous material in the aqueous suspension, both based on the dry weight thereof.

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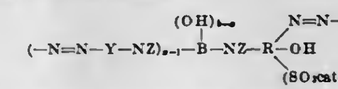
**2,644,752**
**PAPERMAKING PROCESS UTILIZING MODIFIED LOCUST BEAN GUM**
**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application June 26, 1951, Serial No. 233,698**
**3 Claims. (Cl. 92—21)**

3. In a process of making paper from an aqueous suspension of fibrous material, the step which comprises adding, to said suspension, after all operations designed to substantially modify the fibrous constituents by mechanical means are completed and prior to the formation of the web, an aqueous solution of a cooked mixture containing from 85 to 90 parts by weight of locust bean gum, from 5 to 10 parts by weight of a sodium borate and from 2 to 6 parts by weight of boric acid, the amount of cooked mixture of gum, borate and acid in the solution ranging from an appreciable amount up to about 30 lbs. per ton of fibrous material in the aqueous suspension, both based on the dry weight thereof.

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**2,644,753**
**AZO DYES AND THEIR USE IN COLOR PHOTOGRAPHY**
**Bela Gaspar, Beverly Hills, and Paul Daniel Dreyfuss, Van Nuys, Calif., assignors, by mesne assignments, to said Gaspar**
**No Drawing. Application November 5, 1948, Serial No. 58,619**
**9 Claims. (Cl. 95—6)**

1. A photographic material including a silver containing image forming layer and a colloid comprising an azo dye comprising at least one radical of the formula




wherein $B(OH)_{b-x}$ stands for the $x$ valent residue of a $b$-basic organic acid $B(OH)_b$, where $x$ stands for an integer greater than one and $b$ is an integer at least equal to $x$, Z stands for a radical selected from the group consisting of hydrogen, alkyl and aryl radicals, R is a naphthalene nucleus, $m$ is an integer selected from the group consisting of one and two, Y stands for a bivalent aromatic radical, where the azo groups shown in the formula are part of a total of $n'$ azo groups, said $n'$ groups being arranged in $n$ dye units separated from each other by heteronuclear bonds, each unit comprising

$$a=\frac{n'}{n} \text{ azo groups}$$

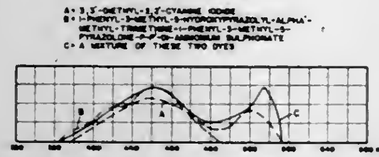
where $a$ stands for an integer from one to four, where $n'=a.n$ and is greater than $b$ and where $n$ is an integer greater than one.

2,644,754

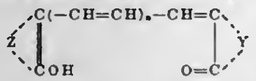
## SUPERSENSITIZED PHOTOGRAPHIC SILVER HALIDE EMULSIONS

**Jacob Joseph Jennen, Antwerp, and Oscar Hendrik Vandenbroele, Wilrijk-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium**

**Application August 4, 1947, Serial No. 766,098**
**In Germany May 22, 1941**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires May 22, 1961**
**4 Claims. (Cl. 95—7)**



1. Photographic silver halide emulsion having incorporated therein a supersensitizing dyestuff composition comprising at least one sensitizing dyestuff and at least one polymethine dyestuff, said sensitizing dyestuff being selected from the group consisting of 3,3' - diethyl - 2,2' - cyanine iodide and 3,3',9-triethyl-6,7,6',7'-dibenzoxocarbocyanine iodide, said polymethine dyestuff having the following general formula:



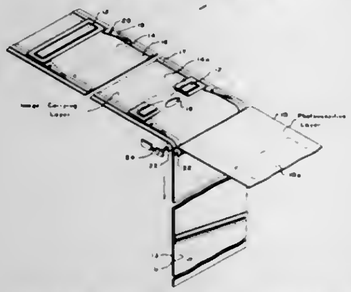
wherein Z and Y are the non-metallic atoms required to complete a ring selected from the group consisting of a heterocyclic ring and an isocyclic ring, $n$ is a positive integer of from 1 to 2, and the hydrogen atoms of the open chain may be replaced by substituents selected from the group consisting of hydrocarbon groups, halogen and carbon-containing bridges.

2,644,755

## PHOTOGRAPHIC PRODUCT FOR CARRYING OUT A ONE-STEP PHOTOGRAPHIC PROCESS

**Otto E. Wolff, Cambridge, and Murry N. Fairbank, Belmont, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware**

**Application December 9, 1947, Serial No. 790,454**
**14 Claims. (Cl. 95—8)**



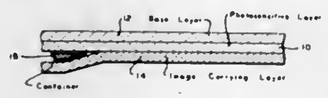
1. A photographic product comprising a sheet support, a rupturable container holding a photographic processing liquid, said liquid including a thickening agent for increasing the viscosity thereof, said container being carried on said sheet support for bodily movement therewith and having a liquid-dispensing mouth positioned to extend transversely of said sheet support and through which the container contents are adapted to be released and discharged upon rupture of said container by the application thereto of opposed compressional forces directed from opposite sides of said sheet support and applied substantially uniformly across said sheet support by pressure-applying elements located on opposite sides of said support, at least a part of the face of said support on which said container is carried providing a spreading surface which extends longitudinally of said support in a direction away from the mouth of said container and over which liquid discharged from said container is adapted to be spread upon relative movement between said sheet support and said compressional forces, said spreading surface having an elongated portion extending longitudinally of said sheet support from adjacent the mouth of said container and providing an image-carrying portion for a photographic image adapted to be formed thereon upon release of said liquid, said spreading surface also having a trapping portion on which liquid in excess of that spread over the image-carrying portion is adapted to be collected and trapped, said trapping portion providing an extension of said spreading surface beyond the end of said image-carrying portion which is furthest removed from said container and carried on said trapping portion of said spreading surface for bodily movement with said sheet support, at least one tapered and durable member which is capable of retaining its general shape under the application of pressure to opposed surfaces thereof and which occupies an area of said sheet support that is substantially smaller than the area of said trapping portion, each said tapered member having a face thereof extending above said spreading surface of said sheet support and also having at least one face provided with edges which diverge in a direction longitudinally of said support and away from the image-carrying portion of the support and which impart a cross-sectional area to said tapered member which increases in said direction whereby said tapered member is capable of gradually separating said elements as said tapered member becomes engaged between said elements upon relative movement of said sheet support with respect to said compressional forces to arrest the spreading of said liquid and to produce a space between the trapping portion of the spreading surface of said sheet support and that pressure-applying element which overlies said spreading surface for collecting and trapping said liquid on parts of said trapping portion adjacent said tapered member.

2,644,756

## PHOTOGRAPHIC PROCESS FOR FORMING A POSITIVE TRANSFER IMAGE

**Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware**

**Application February 8, 1947, Serial No. 727,383**
**4 Claims. (Cl. 95—88)**



1. A photographic process for forming, by transfer, a positive print of a latent image contained in the silver halide emulsion of a photosensitive element wherein a single application of liquid to said element is effective to give a finished print of improved stability, which process comprises the steps of bringing a relatively uniform layerwise distribution of a processing liquid into contact with the photosensitive element so as to permeate said emulsion with said liquid, said layerwise distribution of processing liquid providing the entire mass of liquid for performing said processing; causing said liquid to permeate said photosensitive element while a print-receiving element is superposed therewith and providing, as reagents in said processing liquid, a silver halide developer characterized by its propensity for oxidizing in an alkaline environment to form stains, a silver halide solvent capable of forming transferable soluble silver complexes with the unexposed silver halide of said emulsion, an alkali and ascorbic acid, the oxidation characteristics of the latter being such that it serves as an antioxidant for said developer, said ascorbic acid being capable of cooperating with said developer in the reduction of the silver of soluble silver complexes; developing said emulsion layer with said processing liquid and transferring from said emulsion layer, by imbibition, at least part of said soluble silver complexes onto a print-receiving stratum supported by said print-receiving element; reducing by said processing liquid the silver ions of said soluble silver complexes to silver in said print-receiving stratum to form an image in silver which is a positive of the subject matter of the latent image developed in the silver halide emulsion; and separating said stratum with said print-receiving element from said photosensitive layer, a quantity of said ascorbic acid being permanently retained in said stratum and inhibiting such residual amounts of said silver halide developer as may be in said stratum from forming stains therein.



2,644,757

## FISH CANNING PROCESS AND PACK

**Hercules D. Dakis, San Diego, Calif.**

**No Drawing. Application July 17, 1950, Serial No. 174,353**
**6 Claims. (Cl. 99—188)**

1. A process of canning fish, comprising: mixing with the fish, prior to canning, water to which has been added the vegetable drug *Matricaria chamomilla*.

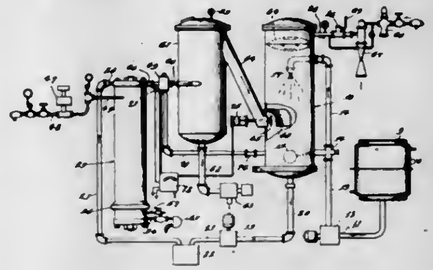
2,644,758

## PASTEURIZING METHODS AND APPARATUS

**Joseph A. Cross, Westerville, Ohio, assignor to Mojonnier Bros. Co. Inc., Chicago, Ill., a corporation of Illinois**

**Application October 5, 1950, Serial No. 188,586**
**7 Claims. (Cl. 99—212)**

1. A continuous process for pasteurizing an aqueous milk product solution comprising spraying the solution at a temperature below 50° F. downwardly into a vacuumized chamber while heating the solution by condensing thereinto all of the water vapor flashed from preceding quantities of the same solution superheated, pumping the thus preheated solution at high pressure and velocity in indirect heat exchange relation with a heating medium to superheat it above 190° F., evaporatively cooling the superheated solution by discharging it into a second vacuumized chamber communicating with the first chamber, separately discharging the evaporatively cooled product, discharging the vapor released during said cooling into said first chamber for mixture as aforesaid with said spray and direct condensing of the vapor to impose vacuum on the vapor in said second vacuumized chamber, ejecting under vacuum from the first chamber air and other non-condensible gases and odors, and establishing the temperature to which the product is



evaporatively cooled by coordinating the precooled temperature and the superheated temperature to maintain a vacuum at which the product may evaporate at about 160° F. or lower.

2,644,759

## PRINTING INK

**Arthur J. Schroeder, Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application July 9, 1951, Serial No. 235,909**
**16 Claims. (Cl. 106—28)**

1. A pigment paste suitable for incorporation into a printing ink which comprises a pigment, a printing ink varnish, and a small amount of a wetting agent obtained by heating a polyethylenepolyamine containing 3–6 nitrogen atoms with urea in the ratio of 1–4 moles of polyethylenepolyamine per mole of urea.

2,644,760

## PRINTING INK

**Arthur J. Schroeder, Cincinnati, Ohio, assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application July 9, 1951, Serial No. 235,910**
**16 Claims. (Cl. 106—28)**

1. A pigment paste suitable for incorporation into a printing ink which comprises a pigment, a printing ink varnish, and a small amount of a wetting agent obtained by heating a polyethylenepolyamine containing 3–6 nitrogen atoms with propylene oxide in the ratio of approximately 0.2–1.0 mole of polyethylenepolyamine per mole of propylene oxide.

2,644,761

## METALLIZED PLASTIC FOIL

**John P. McGirr, Brooklyn, N. Y., assignor to Theodore G. McGirr, Brooklyn, N. Y.**

**No Drawing. Application November 3, 1950, Serial No. 194,025**
**5 Claims. (Cl. 106—177)**

1. A metallized plastic wrapping material in the form of a thin plastic film having a uniform metallic appearance, comprising cellulose acetate 30 to 65%, plasticizers 15 to 49%, metal flakes 5 to 20% and up to 1% of a softener, said metal flakes being selected from the group consisting of aluminum, copper, gold, bronze, and mixtures thereof.

2,644,762

**MODIFIED LOCUST BEAN GUM, SOLUTION THEREOF, AND PROCESS FOR MAKING A LOCUST BEAN GUM SOLUTION**

**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**

**No Drawing. Application December 16, 1948, Serial No. 65,718**

**10 Claims. (Cl. 106—208)**

3. An aqueous solution wherein about 50% to 96% by weight of the solute is locust bean gum, about 2% to 35% by weight of the solute is a sodium borate and about 1% to 20% by weight of the solute is an aldehyde selected from the group consisting of glyoxal and pyruvic aldehyde.

2,644,763

**MODIFIED LOCUST BEAN GUM, SOLUTION THEREOF, AND PROCESS FOR MAKING A LOCUST BEAN GUM SOLUTION**

**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**

**No Drawing. Application June 26, 1951, Serial No. 233,693**

**10 Claims. (Cl. 106—208)**

1. A mixture comprising from about 50% to about 96% by weight of locust bean gum, from about 2% to about 35% by weight of a sodium borate and from about 1% to about 20% by weight of an agent for overcoming the inhibiting effect of the borate on the swelling of the gum, said agent being a soluble, acid-reacting, inorganic salt selected from the group consisting of ammonium chloride and aluminum sulfate, the relative proportions of borate to salt ranging from about 1:1 to 3:1.

2,644,764

**MODIFIED LOCUST BEAN GUM, SOLUTION THEREOF, AND PROCESS FOR MAKING A LOCUST BEAN GUM SOLUTION**

**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**

**No Drawing. Original application December 16, 1948, Serial No. 65,718. Divided and this application June 26, 1951, Serial No. 233,694**

**10 Claims. (Cl. 106—208)**

1. A mixture comprising from about 50% to about 96% by weight of locust bean gum powder, from about 2% to about 35% by weight of a sodium borate and from about 1% to about 20% by weight of citric acid, the relative proportions of borate to acid ranging from about 1:1 to 3:1.

2,644,765

**MODIFIED LOCUST BEAN GUM, SOLUTION THEREOF, AND PROCESS FOR MAKING A LOCUST BEAN GUM SOLUTION**

**Nat Frisch, White Plains, and Frank J. Sweeney, Forest Hills, N. Y., assignors to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York**

**No Drawing. Application June 26, 1951, Serial No. 233,695**

**10 Claims. (Cl. 106—208)**

1. A mixture comprising from about 50% to about 96% by weight of locust bean gum, from about 2% to about 35% by weight of borax and from about 1% to about 20% by weight of boric acid, the relative proportions of borate to acid ranging from about 1:1 to 3:1.

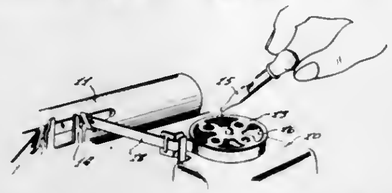
2,644,766

**COMPOSITION FOR RECONDITIONING USED TYPEWRITER RIBBONS**

**Jacob L. Levine, New York, N. Y., assignor to Bessie S. Levine, New York, N. Y.**

**Application August 5, 1950, Serial No. 177,922**

**1 Claim. (Cl. 106—271)**



A solution for reviving and reconditioning faded and worn typewriter or duplicating ribbons, regardless of color or combination of colors, comprising three parts, one of said parts having twenty-five per cent butyl acetate, ten per cent butyl alcohol, ten per cent ethyl alcohol and fifty-five per cent toluol; another part having three portions sperm oil and one portion kerosene; the third part having eight parts citronella terpenes, two parts cinnamon leaf terpenes, one part dipentene, six and one-half parts oil citronella; said three parts being combined in the following proportions: three gallons of part I, one gallon of part II and sixteen ounces of part III.

2,644,767

**CERAMIC PIGMENT AND METHOD OF MANUFACTURE OF SAME**

**Russell F. Duncan, Berea, Ohio, assignor to Ferro Corporation, a corporation of Ohio**

**No Drawing. Application May 18, 1950, Serial No. 162,801**

**3 Claims. (Cl. 106—292)**

1. The process of making a ceramic pigment which comprises intimately mixing black cobalt oxide from 20–40 parts by weight, aluminum oxide from 40–70 parts by weight, zinc oxide 1–5 parts by weight, silica 1–5 parts by weight and molybdenum trioxide 0.5–10 parts by weight, calcining the mixture in a furnace at a temperature of 2000–2350° F., for about 5–6 hours, wet milling the resultant cooled calcined mass, drying and then pulverizing in a suitable pulverizer.

2,644,768

**METHOD OF AND MEANS FOR PRODUCING SIMULATED-BRICK SIDING BOARDS**

**John E. Miller, Maywood, Ill., assignor to Certain-teed Products Corporation, Ardmore, Pa., a corporation of Maryland**

**Application October 26, 1950, Serial No. 192,318**

**12 Claims. (Cl. 117—9)**



1. The method of making simulated-brick siding boards which comprises impregnating an insulation board with thermo-plastic material, applying a coating of thermo-plastic material on one face of said impregnated board, pressing a layer of comminuted stone particles into said coating, then applying a supply of comminuted stone of a contrasting color on the coated face of said board at points corresponding to the mortar line design of a brick wall and restricted to a width just slightly greater than the width of the lines of such design, pressing said contrasting color stone into holding engagement with said thermo-plastic material at the points corresponding to said design, and then removing the surplus loose stone from the face of the board.



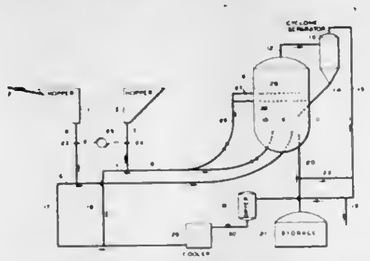
2,644,769

**COATING OF AMMONIUM NITRATE FERTILIZER**

**Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application December 31, 1948, Serial No. 68,471**

**7 Claims. (Cl. 117—17)**



6. In a process wherein fluidizable ammonium nitrate crystals are coated with fluidizable particles of a combination coating and neutralizing material selected from the group consisting of fuller's earth, diatomaceous earth, kieselguhr, and calcium carbonate and having a particle size smaller than that of said ammonium nitrate crystals, the improved method of coating said crystals whereby the said coating is uniformly deposited on said crystals at a controlled rate which comprises electrostatically charging the said crystals and the said coating material particles with charges of opposite sign, respectively; suspending the said electrostatically charged crystals and the said electrostatically charged material particles in separate streams of an inert carrier gas, separately passing said streams to a coating zone to form a fluidized bed of said particles and said crystals and controlling the rate of deposition of said particles on said crystals by adjusting the rate of flow of said carrier gas through the said bed, by adjusting the amount of electrostatic charge on the said particles and the said crystals, respectively, and by adjusting the relative difference in particle size of the said particles and the said crystals.

2,644,770

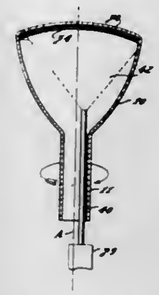
**METHOD OF APPLYING FILMS ON CATHODE-RAY SCREENS**

**Meier Sadowsky, Elkins Park, Pa., assignor to Radio Corporation of America, a corporation of Delaware**

**Application March 3, 1948, Serial No. 12,810**

**10 Claims. (Cl. 117—33.5)**

1. The method of applying to a rough mat surface of a fluorescent screen a metallic reflecting film, the method comprising the steps of, wetting the mat screen surface with sufficient liquid to fill the interstices of the fluorescent screen, removing any excess of the liquid not adhering to the mat screen surface, applying by a spray to the wet screen surface a sufficient amount of a solution formed from an organic solute insoluble in said liquid and a solvent soluble in said liquid to form a continuous film of the organic solute, rapidly rotating the fluorescent screen about an



axis through the screen surface to remove excess organic material to the edge of the screen, drying the mat screen surface and film to form a hard smooth film over the mat screen surface, and applying a reflecting metal coating onto said organic film.

2,644,771

**PROCESS OF COATING STRUCTURAL SURFACES**

**James L. Kempthorne, Montclair, N. J.**

**No Drawing. Application May 10, 1949, Serial No. 92,507**

**4 Claims. (Cl. 117—70)**

1. The method of forming a hard, continuous moistureproof fibrous asbestos insulation coating on a structural surface to insulate said surface, consisting of alternately spraying cationic and anionic dispersions thereon until a coating of desired thickness is built up on said surface, said cationic dispersions comprising essentially a synthetic resinous binder containing 1–10% of a stabilizing cationic, surface active amide, and a carrier liquid therefor, to impose a cationic charge on said surface, and said anionic dispersion comprising essentially a mixture of cement, lime, aluminum stearate and an inert material dispersed in water plus a stabilizing anionic wetting agent, and introducing a comminuted fibrous insulation material into the anionic dispersion during spraying thereof onto the surface being coated.

2,644,772

**METHOD OF COATING MINERAL PARTICLES**

**William A. Kaye, Berkeley, Calif., assignor to Pabco Products Inc., a corporation of Delaware**

**No Drawing. Application March 1, 1949, Serial No. 79,119**

**6 Claims. (Cl. 117—100)**

3. The method of forming resinous coatings on a plurality of discrete mineral particles which are substantially inert to a non-aqueous liquid compound polymerizable by dry activated clay catalyst, said compound being a monomer of the group consisting of styrene, alpha-methyl styrene, indene, para divinyl benzene, ortho divinyl benzene, and isobutylene; which comprises thoroughly admixing said discrete particles and said non-aqueous liquid polymerizable compound with said dry activated clay catalyst whereby an exothermic reaction occurs causing polymerization of the monomer by the catalyst onto the discrete mineral particles, and continuing said admixing to

cause the discrete coated particles to be in substantially non-fused condition with said dry activated clay catalyst remaining in said polymerized coatings as a filler.

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2,644,773

## CONTROL OF WOOL SHRINKAGE BY POLYAMIDES

**Irving P. Hammer, Belleville, and John B. Rust, East Hanover, N. J., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey**

**No Drawing. Application March 17, 1949, Serial No. 82,024**

**36 Claims. (Cl. 117—141)**

1. The method of shrinkproofing wool with water-insoluble polyamides while retaining substantially normal hand which comprises impregnating the wool with an organic solvent solution of a water insoluble synthetic polyamide which contains hydrogen-bearing amide nitrogen atoms and having an intrinsic viscosity of at least 0.4, to deposit an amount not exceeding from about 1% to 25% by weight on the wool of polyamide insufficient to modify the normal hand of the wool but sufficient to give shrink-proofing and directly heating the impregnated wool in the absence of precipitating agents for the polyamide thereby avoiding precipitation of the polyamide at a temperature below that of substantial injury to wool or polyamide to insolubilize the polyamide and to give a shinkproofed wool of normal hand, the organic solvent being a solvent which dissolves and is miscible with the polycarbonamide.

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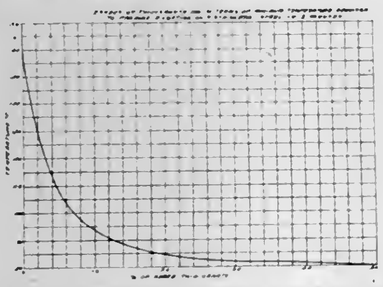
2,644,774

## SULFIDE COATING

**John E. Baxter, Maywood, Calif., assignor to Parker Rust Proof Company, Detroit, Mich., a corporation of Michigan**

**Original application January 12, 1950, Serial No. 138,251. Divided and this application April 18, 1952, Serial No. 282,983**

**4 Claims. (Cl. 148—6.24)**



1. A composition for forming a sulfide coating on a steel surface which consists essentially of a member of the group consisting of the sulfide ion and ions which form the sulfide ion through reduction on the steel surface and in a proportion equivalent to about .3 to 1.3% sulfite ion, the thiocyanate ion in a proportion of from .05% up to and including saturation, and an acid selected from the group consisting of sulfuric, hydrochloric and nitric in a proportion sufficient to provide a pH in the range of about .3 to 1.1.

2,644,775

## METHOD OF BRIGHT ANNEALING AND CLEANING

**Harry R. Spence, Lewiston, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York**

**No Drawing. Application July 1, 1950, Serial No. 171,757**

**10 Claims. (Cl. 148—14)**

3. A process for heat treating metallic articles comprising subjecting the metal to the action of the fumes of a mixture of sodium hydroxide and sodium fluoride, until a protective coating of said composition is deposited on the metallic surface, annealing the metal, and subsequently removing the protective coating by quenching the article in an aqueous medium.

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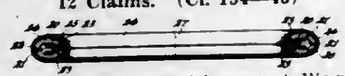
2,644,776

## ARTICLE AND METHOD OF MAKING FABRIC COVERED RODS

**Jack Williams and Abraham Diamond, Bronx, N. Y.**

**Application June 10, 1950, Serial No. 167,424**

**12 Claims. (Cl. 154—43)**



4. A covered rod comprising a metallic rod having a V-shaped channel extended in from one side thereof, the metal in said channel between the apex of the V and the outer periphery of said rod being comparatively thin, lips on the side walls of the channel adjacent the open side thereof directed toward one another and spaced at substantially a 40° angle, and a covering engaged about the rod and having its edge portions inserted into said channel past said lips and clamped between said lips.

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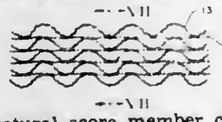
2,644,777

## COMPOSITE STRUCTURAL MATERIAL

**Glenn George Havens, San Diego, Calif., assignor to Narmco, Inc., San Diego, Calif., a corporation of California**

**Application April 5, 1950, Serial No. 154,138**

**3 Claims. (Cl. 154—45.9)**



1. A structural score member consisting of a plurality of ribbons in spaced relation, said ribbons forming an undulating wave pattern extending across said member in generally parallel relation with a secondary and substantially uniform undulating wave pattern of smaller pitch and amplitude following the contour of the principal wave pattern and extending the full length of said ribbons, a retaining strip of less width than said ribbons between adjacent spaced ribbons, and an adhesive forming a bond between the retaining strips and the peaks of the waves of the ribbons.

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2,644,778

## METAL FOIL MATRIX

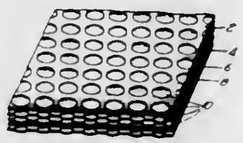
**Frank J. Russell, Jr., Marquette, Mich.**

**Application January 7, 1950, Serial No. 137,434**

**10 Claims. (Cl. 154—46.5)**

1. A flexible, malleable, laminated foil mat for use as a matrix for stereotype plates, which mat has dimensional stability and is adapted to be inserted in a typewriter to have type impressions formed therein comprising a plurality of superposed layers of deformable thin metallic foil, each layer having throughout substantially its entire surface a plurality of relatively minute protuberances of a height and being spaced from each





other a distance comparable to the thickness of said layer, said protuberances providing a substantially increased surface within a particular area of foil, the extended surface of said layers of foil adapting said matrix to receive without rupturing a plurality of relatively deep impressions when struck with the type on selected type bars of a typewriter.

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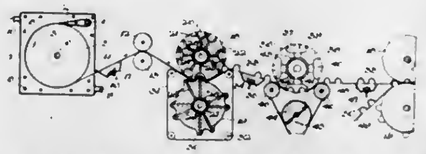
2,644,779

## METHOD FOR THE CONTINUOUS MOLDING OF BRASSIÈRES AND OTHER THREE-DIMENSIONAL ARTICLES

**Fred W. Manning, Palo Alto, Calif.**

**Application February 3, 1948, Serial No. 6,064**

**12 Claims. (Cl. 154—90)**



1. In a method for molding articles from a fibre-forming material, the steps comprising: depositing the said material in intersecting filaments to form an integral web in which the filaments are bonded to one another by their own adhesiveness; uniformly and progressively stretching successive portions of the said web to stretch-orient the said filaments; and progressively distorting successive, uniformly spaced portions of the said web to the initial point of elasticity of the said filaments to produce a series of three-dimensional shapes, the said operations being accomplished during a continuous movement of the said web.

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2,644,780

## METHOD OF FORMING FLUFFED FILAMENTARY MASSES AND ARTICLE PRODUCED THEREBY

**Thomas R. Simkins, East Williston, and Richard N. Jasper, Baldwin, N. Y., assignors, by mesne assignments, to Johns-Manville Corporation, New York, N. Y., a corporation of New York**

**Application January 11, 1949, Serial No. 70,316**

**8 Claims. (Cl. 154—92)**

1. The method comprising forming a mat of a plurality of layers of filaments, with the filaments extending generally transversely of the mat and with the filaments of adjacent layers crossing at acute angles, drawing the mat in a direction at right angles to the general lay of the filaments to expand the mat, applying a minor proportion of an unset binder to the mat between the time that the mat is partly formed and the time when it has been partly expanded, continuing the drawing of the mat wet with such binder on it until the layers of the mat assume a corrugated or undulatory form, applying additional unset binder to the mat and setting the binder.



2. A product comprising a plurality of superposed layers of glass filaments, with the filaments of adjacent layers in crossing relationship, the layers lying substantially parallel to one another and each layer being approximately uniform, contiguous undulations projecting above and below the median plane of the layer and extending at an angle to the filament directions, superposed layers being tied together by a multiplicity of interconnecting filaments, a binder bonding said filaments into a substantially unitary body, with the concentration of binder being greater at the top of such product than at the bottom whereby the top surface of the structure is stiffened against collapse.

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2,644,781

## LIGHTWEIGHT PANEL AND METHOD OF MANUFACTURE

**George Smolak and Edwin F. Dyer, Somerville, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York**

**Application February 25, 1950, Serial No. 146,214**

**10 Claims. (Cl. 154—128)**



1. The method of manufacturing sheet laminates which comprises, impregnating a thin dense sheet containing chrysotile asbestos fibers with aqueous orthophosphoric acid of 40–60% concentration, forming an inorganic sheet laminate incorporating such impregnated sheet and another sheet containing a phosphate forming mineral, and hardening and bonding the laminate under heat and pressure.

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2,644,782

## AUREOMYCIN FOR INJECTION

**Ben King Harned and Raymond Wesley Cunningham, Pearl River, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application September 8, 1949, Serial No. 114,686**

**6 Claims. (Cl. 167—65)**

1. A stabilized solution of aureomycin comprising a non-toxic intravenously acceptable acid salt of aureomycin dissolved in an amino acid buffer solution, the amino acid having an acid dissociation constant between about $4\times10^{-10}$ and $1\times10^{-8}$, said stabilized solution having a pH between about 7 and 9.

2,644,783

## PARENTERAL AUREOMYCIN IN ANHYDROUS FORM

**Joseph F. Weidenheimer, Pearl River, and Lawrence Ritter, Spring Valley, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application September 8, 1949, Serial No. 114,695**

**6 Claims. (Cl. 167—65)**

1. An aureomycin preparation in anhydrous form capable of yielding an intravenously administrable solution on solution in water comprising as a powder an unreacted mixture of aureomycin hydrochloride and about 2.5 mole equivalents of sodium glycinate.

2,644,784

## PREPARATION OF PEPSINOGEN AND PEPSIN

**Eugene P. Kennedy and Myron D. Grossnickle, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois**

**No Drawing. Application November 16, 1950, Serial No. 196,096**

**6 Claims. (Cl. 195—66)**

1. In a process for the recovery of pepsin, the steps of extracting a raw source of pepsinogen with water, maintained at a temperature of about 0° to 10° C. adding acid to bring the pH to 3.0 to 4.5 at which inert protein with pepsinogen adsorbed thereon is precipitated, separating the precipitate and adsorbed pepsinogen, suspending the precipitate and adsorbed pepsinogen in water, adding an organic solvent and raising the temperature above 37° C. to convert the pepsinogen to pepsin, and separating the protein from the pepsin solution.

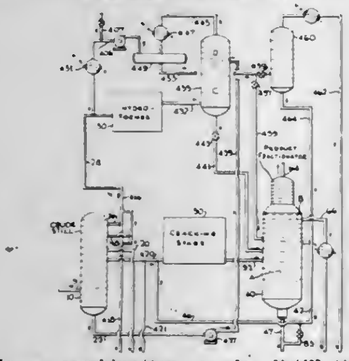
2,644,785

## COMBINATION CRUDE DISTILLATION AND CRACKING PROCESS

**Clarke T. Harding, Hillside, Maurice W. Mayer, Summit, and Richard O. Wright, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**Application June 3, 1950, Serial No. 165,982**

**5 Claims. (Cl. 196—49)**



1. In a combination crude distillation and hydrocarbon conversion process, the improvement which comprises subjecting crude oil to distillation in a distillation zone to produce distillate fractions including a gas oil fraction and a naphtha cut and reduced crude, subjecting the naphtha cut to catalytic reforming in a reforming zone yielding hydrogen at elevated reforming temperatures and pressures, stripping said reduced crude with said hydrogen substantially at said pressures in a stripping zone, withdrawing an overhead comprising hydrogen and hydrocarbon strippings from said stripping zone, passing stripped reduced crude from said stripping zone at a pressure lower than said elevated pressure to a product fractionation zone, catalytically cracking the gas oil fraction, further stripping said stripped reduced crude in said fractionation zone with cracked vapors produced in said catalytically cracking step, withdrawing distillate fractions from said fractionation zone and recovering stripped reduced crude bottoms from said fractionation zone.

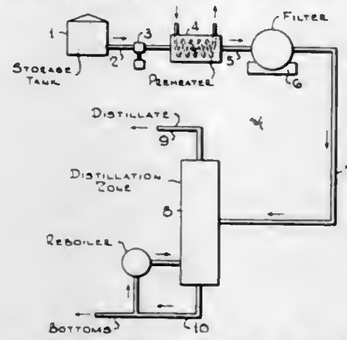
2,644,786

## PRECIPITATION OF NONVOLATILE SUBSTANCES IN DISTILLATION OF FISCHER-TROPSCH SYNTHESIS MIXTURES

**Carl S. Carlson, Roselle, and Frank A. Biribauer and Carter E. Porter, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**Application December 1, 1951, Serial No. 259,488**

**4 Claims. (Cl. 202—61)**




1. A process for the distillation of an aqueous product containing non-volatile residues from a hydrocarbon synthesis reaction wherein hydrogen and carbon monoxide are reacted, which comprises the steps of first heating the aqueous product in a heating zone at a temperature in the range of from 140° to 205° F. for a time interval of about from ½ to 4 hours to precipitate a substantial but minor proportion of said nonvolatile residues; separating the thus heat treated aqueous product from the precipitate; and distilling the separated aqueous product in a distillation zone at a minimum bottoms temperature higher than that employed in the first heating step.

2,644,787

## ELECTRODEPOSITION OF A MAGNETIC COATING

**Theodore H. Bonn, Philadelphia, and Douglas Cary Wendell, Jr., Bryn Mawr, Pa., assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania**

**No Drawing. Application January 5, 1950, Serial No. 137,028**

**12 Claims. (Cl. 204—43)**

1. The method for the deposition of a magnetic coating on an electrically conductive carrier comprising subjecting said carrier as cathode to at least partial electrolytic action in an aqueous bath having a pH in the range of 2 to 6 and including as essential constituents nickel ions in a concentration in the range 0.2 to 1.7N, cobalt ions in a concentration in the range 0.2 to 1.0N, and hypophosphite ions in a concentration in the range 0.04 to 0.2N, said electrolytic action being in the presence of the reducing action of the hypophosphite ions on the cobalt and nickel ions.



2,644,788

## ELECTRODEPOSITION OF NICKEL

**Wilbur J. Shenk, Jr., Shaker Heights, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio**

**No Drawing. Application March 31, 1951, Serial No. 218,693**

**6 Claims. (Cl. 204—49)**

1. A method of electrodepositing nickel on a metallic surface in the form of a deposit which is bright as taken from the plating solution without further treatment, and which deposit is ductile and smoother than said metallic surface when the root mean square average deviation of the irregularities in the surface thereof from the average surface plane is about 10 to 15 microinches, and the thickness of the deposit is about 0.001", which method comprises electrolyzing an aqueous, acid solution of a nickel electrolyte of the class consisting of nickel sulfate, nickel chloride, and mixtures of nickel sulfate with nickel chloride, said solution also containing cooperating addition agents capable of imparting brightness and smoothing power as aforesaid, one of said addition agents being a pyridinium carboxylate compound selected from the class consisting of 1-(carboxymethyl) pyridinium chloride, 1-(carboxymethyl) pyridinium bromide, 1-(1'-carboxyamyl) pyridinium bromide, 1-(1'-carboxypropyl) pyridinium bromide, 1-(1'-carboxy-1'-phenylmethyl) pyridinium bromide, 1-(1'-carboxyethyl) pyridinium chloride, 1-(1'-carboxyvinyl) pyridinium bromide, 1-(2'-carboxyethyl) pyridinium chloride, 1-(2'-carboxypropyl) pyridinium chloride, 1-(1'-carboxyisobutyl) pyridinium bromide, 1-(1'-carboxybutyl) pyridinium bromide, and 1-(3'-carboxypropyl) pyridinium bromide, and the second of said addition agents being an aromatic sulfur compound selected from the group consisting of compounds of the formula $ArSO_2R$, where Ar is selected from the class consisting of benzene and naphthalene radicals and R is selected from the class consisting of OH, $NH_2$, $NHSO_2Ph$, $NHSO_2$ alkyl wherein the alkyl group contains from 1 to 12 carbon atoms, and chloro and bromo substitution products of said compounds and the nickel, iron, cobalt, sodium and potassium salts of the foregoing.

2,644,789

## ELECTRODEPOSITION OF NICKEL

**Wilbur J. Shenk, Jr., Shaker Heights, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio**

**No Drawing. Application August 2, 1951, Serial No. 240,049**

**7 Claims. (Cl. 204—49)**

1. A method of electrodepositing nickel in the form of a deposit which is bright as taken from the plating solution without further treatment and which comprises electrolyzing an aqueous, acid solution of a nickel electrolyte of the class consisting of nickel sulfate, nickel chloride, and mixtures of nickel sulfate with nickel chloride, said solution also containing cooperating addition agents capable of imparting brightness to the deposit, one of said addition agents being a compound comprising two heterocyclic radicals, each containing a nitrogen atom in a 6-membered ring, and said radicals being connected to each other through said nitrogen atoms by means of a carbon-containing group, said group being selected from groups of the class consisting of carbon chains having from 1 to 12 carbon atoms and chains made up of carbon and oxygen and containing not more than a total of 12 connecting atoms between said nitrogen atoms, and the other of said addition agents being an aromatic compound containing the



group, and being soluble in said solution to the extent of at least 0.2 gram per liter, the carbon atom is said



group being nuclear carbon, said first mentioned addition agent being present in concentration from 0.005 to 0.01 gram per liter, and said second mentioned addition agent being present in concentration from 0.2 to 15 grams per liter.

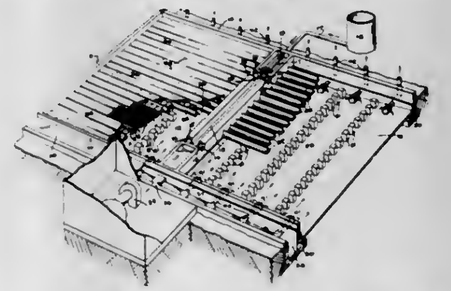
2,644,790

## APPARATUS FOR HANDLING SLUDGE

**Charles S. Harper and Frank N. Moerk, Philadelphia, Pa.**

**Application December 7, 1949, Serial No. 131,564**

**7 Claims. (Cl. 210—2)**



1. In an apparatus for drying digested sewage sludge, a sub-floor marginally enclosed by upstanding walls, a water-pervious bed for supporting a deposit of sludge in a horizontal plane spaced vertically above said sub-floor, said bed being also enclosed by said walls to provide a marginally enclosed chamber between said bed and sub-floor, means for draining from said chamber the sludge water filtered through the sludge-supporting bed, and means for circulating heated air through said chamber to dry said sludge deposit upwardly from its bottom surface, said last-mentioned means including an air blower and a conduit system for introducing air into one side of said chamber at points spaced along the length thereof.

2,644,791

## DRILLING FLUID COMPOSITION

**Jan van Heiningen, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application October 23, 1950, Serial No. 191,731. In the Netherlands March 16, 1950**

**7 Claims. (Cl. 252—8.5)**

1. A weighted drilling fluid for use in wells comprising an oil-containing suspending liquid,

an oleophilic asphaltic bitumen plastering agent and a preferentially oil-wettable weighting agent consisting of oil shale, said weighting agent being present in quantities of from 5% to 60% of the total weight of the drilling fluid.

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2,644,792

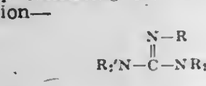
## COMPOUNDED LUBRICATING OIL

**Max W. Hill, Somerville, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application December 23, 1949, Serial No. 134,879**

**17 Claims. (Cl. 252—32.7)**

1. A mineral oil containing a detergent quantity of a product obtained by reacting one molecular proportion of a phosphorus sulfide with 1 to 10 molecular proportions of a hydrocarbon at about 200 to about 600° F. and treating the acidic reaction product at about 100 to about 400° F. with an amount sufficient to neutralize the titratable acidity of such reaction product of an organic basic reaction compound selected from the group consisting of: (1) free bases of the composition—



in which R, R' and R'' are each members of the group consisting of hydrogen and hydrocarbon radicals containing 1 to 20 carbon atoms, and (2) basic reacting salts of the aforementioned free bases, said basic reacting salts being salts of acids whose strength, measured on a pH scale, is less than that of the said acidic reaction product.

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2,644,793

## RUST INHIBITING COMPOSITION

**Harry W. Rudel, Roselle Park, and Marion Gargisa, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application August 30, 1950, Serial No. 182,421**

**9 Claims. (Cl. 252—48.6)**

5. A mineral lubricating oil containing dissolved therein 0.001 to 5% of the compound of the formula

$$RCOOCH_2CH_2SCH_2COOH$$

where R is a hydrocarbon radical selected from the group consisting of aliphatic and cycloaliphatic radicals and containing 2 to 21 carbon atoms.

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2,644,794

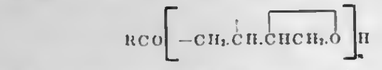
## HYDROCARBON OIL COMPOSITIONS

**Joseph E. Fields, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application November 15, 1950, Serial No. 195,898**

**3 Claims. (Cl. 252—52)**

1. A substantially foam-resisting hydrocarbon oil composition containing up to 1.0 per cent by weight based on the weight of the composition of a liquid mixture of adducts having the formula



in which R is an alkyl radical of from 1–17 carbon atoms and $n$ is an integer of from 2–20.

2,644,795

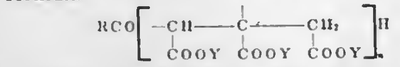
## HYDROCARBON OIL COMPOSITION

**Joseph E. Fields, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application November 15, 1950, Serial No. 195,897**

**5 Claims. (Cl. 252—56)**

1. A substantially foam-resisting hydrocarbon oil composition containing up to 1.0 per cent by weight, based on the weight of the composition, of a liquid mixture of adducts having the formula



in which R is an alkyl radical of from 1 to 17 carbon atoms, Y is an alkyl radical of from 1 to 8 carbon atoms and $n$ is an integer of from 2 to 20.

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2,644,796

## COMPOSITION OF MATTER

**Harold P. Averill, Aberdeen, Md., and Robert Pfanstiel, Cleveland Heights, Ohio, assignors to the United States of America as represented by the Secretary of War**

**No Drawing. Application November 22, 1934, Serial No. 754,199½**

**29 Claims. (Cl. 252—182)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A water-in-oil emulsion for the destruction of bis (beta-chloroethyl) sulphide comprising water, kerosene, and an emulsifying agent consisting of the reaction product of horse oil and one of the group of compounds consisting of magnesium carbonate, magnesium oxide, and magnesium hydroxide.

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2,644,797

## GASIFICATION OF SULFURIC ACID WASTES

**William H. Shiffler, San Francisco, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application December 9, 1947, Serial No. 790,703**

**9 Claims. (Cl. 252—373)**

1. The method of burning sulfuric acid wastes formed in the refining of petroleum distillates with concentrated sulfuric acid to convert the sulfur contained in the wastes predominantly to hydrogen sulfide, which comprises introducing the acid waste into a combustion zone maintained at an elevated temperature above about 2200° F. in the presence of added oxygen sufficient to raise the total oxygen content of the combustion zone above the amount stoichiometrically required to convert all of the carbon in the acid waste to carbon monoxide but insufficient to raise the total oxygen in the combustion zone to the amount stoichiometrically required to convert all of the carbon and all of the hydrogen in the acid waste to carbon dioxide and water respectively.

5. The method of burning sulfuric acid wastes formed in the refining of petroleum distillates with concentrated sulfuric acid to convert the sulfur contained in the wastes predominantly to hydrogen sulfide, which comprises introducing the waste in finely divided form into a combustion zone maintained at an elevated temperature of about 2500° F. and at an elevated pressure of about 20 atmospheres, simultaneously introducing into the combustion zone and into contact with the finely divided waste a combustion supporting gas comprising at least 65% by volume of elemental oxygen to gasify the waste by combustion, maintaining the ratio of total oxygen to acid waste in the combustion zone above that stoichiometrically required to convert all of the carbon contained in the waste to carbon monoxide and substantially below that stoichiometrically required for the complete combustion of the waste such that the gaseous combustion product effluent from the combustion zone consists predominantly of carbon monoxide and hydrogen and contains lesser amounts of carbon dioxide and water vapor.



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2,644,798

## HYDROXYLATED ALUMINUM HALIDE POLYMERIZATION CATALYST

**John D. Calfee, Manhasset, N. Y., and Charles A. Kraus, Providence, R. I., assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application June 26, 1948, Serial No. 35,514**

**7 Claims. (Cl. 252—429)**

6. A polymerization catalyst consisting essentially of a hydroxylated aluminum halide having a molar ratio of halide to aluminum between 2:1 and 2.8:1, said hydroxylated aluminum halide being in solution in a low-freezing organic solvent selected from the group consisting of akyl halides having 1 to 3 carbon atoms, carbon disulfide, and aliphatic hydrocarbons having 2 to 4 carbon atoms.

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2,644,799

## HEAT-EXCHANGE PEBBLES

**Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application May 5, 1949, Serial No. 91,649**

**19 Claims. (Cl. 252—455)**




1. A process for manufacturing $\frac{3}{16}$" to 1" pebbles of improved resistance to thermal and mechanical shock and to abrasion in gravitating-bed heat-exchange processes, which comprises compacting a pebble core of a diameter in the range of $\frac{1}{4}$ to $\frac{9}{10}$ of the diameter of the pebble from 50 to 150 mesh alumina and a volatile binder; encasing said core with a compact layer consisting essentially of a volatile binder and at least 325 mesh material selected from the class consisting of alumina, alumina-silica, and alumina-aluminum silicate to form the balance of the pebble; and calcining the pebble at a temperature in the range of 2900° to 3200° F. for at least 2 hours and until the porosity lies in the range of 5 to 20 per cent so as to form a firm bond in the pebble and fix the shell to the core.

16. A heat-bonded spherical $\frac{3}{16}$" to 1" pebble having a compact dense core formed of 50 to 150 mesh alpha corundum grains encased in a compact, glazed shell consisting essentially of a material selected from the class consisting of alumina, mullite, and alumina-mullite, said shell having been formed by calcining particles of at least 325 mesh fineness of material selected from the class consisting of alumina, alumina-silica, and alumina-aluminum silicate, said pebble having a porosity in the range of 5 to 20 per cent, the outer crystals in said core being heat-bonded to the inner crystals of said shell.

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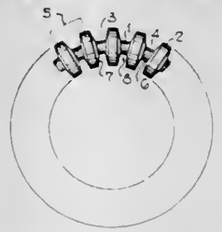
2,644,800

## SHAPED CATALYST FOR PACKED CATALYTIC REACTOR

**Henry O. Mottern, Bloomfield, and Wesley N. Philo, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**Application June 1, 1949, Serial No. 96,486**

**6 Claims. (Cl. 252—463)**



1. A shaped catalyst material, adapted for employment as packing in a packed catalytic reactor, comprising a metal support element up to about 3 inches in length having an elongated generally cylindrical body portion having an outside diameter of ⅛ to ¾ inches and a plurality of annular flanges concentric with said body portion and disposed in spaced relation one to another longitudinally of said body portion forming a plurality of spaced annular pockets between said flanges in which said flanges have a width substantially equal from about ⅓ to ⅔ the diameter of said support element, and a solid catalyst material deposited on said element completely filling said annular pockets and forming on said element a catalyst surface coating.

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2,644,801

## SULFONATED ARYL ACETYLENE RESINS

**Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware**

**No Drawing. Application September 24, 1949, Serial No. 117,727**

**26 Claims. (Cl. 260—2.2)**

1. A water-insoluble resin containing a plurality of sulfonic acid groups, said groups being attached to an insoluble, infusible resin prepared by the polymerization of a polymerizable mass comprising a polymerizable aryl acetylene hydrocarbon compound.

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2,644,802

## TETRAFLUOROETHYLENE POLYMER COMPOSITIONS CONTAINING POLYORGANOSILOXANE LUBRICANTS

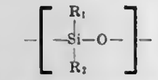
**John Frank Lontz, Nutley, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application June 30, 1950, Serial No. 171,532**

**5 Claims. (Cl. 260—29.1)**

1. A non-aqueous pressure-coalescing composition which comprises coagulated tetrafluoro-

ethylene polymer particles of colloidal size intimately admixed with a liquid polyorganosiloxane consisting essentially of recurring units of the formula



$R_1$ and $R_2$ being of the class consisting of methyl and phenyl groups, said polyorganosiloxane being present in an amount equal to from 5% to 50% of the combined weight of tetrafluoroethylene polymer and polyorganosiloxane, said polyorganosiloxane having a viscosity of within the range of from 0.45 to 1,000 centipoises at 25° C.

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**2,644,803**

## SPINNING SOLUTIONS COMPRISING AN ACRYLONITRILE-ALLYL ALCOHOL COPOLYMER

**Arthur Cresswell, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application February 15, 1949, Serial No. 76,668**

**6 Claims. (Cl. 260—29.6)**

1. A spinning solution comprising an acrylonitrile-allyl alcohol copolymer containing from about 0.6% to about 7% by weight thereof of combined allyl alcohol, said copolymer having an average molecular weight within the range of about 54,000 to about 200,000 and being dissolved in a solvent therefor.

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**2,644,804**

## PACKING COMPOSITION CONTAINING POLYTRIFLUOROCHLOROETHYLENE AND AN INORGANIC ANTIFRICTION AGENT

**Louis C. Rubin, West Caldwell, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware**

**No Drawing. Application April 22, 1950, Serial No. 157,629**

**10 Claims. (Cl. 260—33.8)**

1. A packing composition which comprises a coherent mass of a thermoplastic polymer consisting essentially of polymerized trifluorochloroethylene having an N. S. T. between about 240° C. and about 340° C. in admixture with a comminuted solid inorganic anti-friction agent selected from the group consisting of graphite and molybdenum sulfide said polymer and said inorganic anti-friction agent comprising at least 70 weight per cent of the packing composition, the weight ratio of the thermoplastic polymer to the anti-friction agent being between about 4:1 and about 1:2.

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**2,644,805**

## BORIC ACID-METHYL POLYSILOXANE COMPOSITION

**Robert W. Martin, Lenox, Mass., assignor to General Electric Company, a corporation of New York**

**No Drawing. Application May 15, 1951, Serial No. 226,540**

**1 Claim. (Cl. 260—46.5)**

The method which comprises (1) forming a mixture of ingredients comprising, by weight, 1 part boric acid and from 2.5 to 3.5 parts tetramethyl disiloxane diol-1,3, and (2) warming the mixture of ingredients slightly to produce a composition which at normal temperatures of about 25° to 35° resembles a thin paste but at temperatures of from 50° to 55° C. congeals to a putty-like composition.

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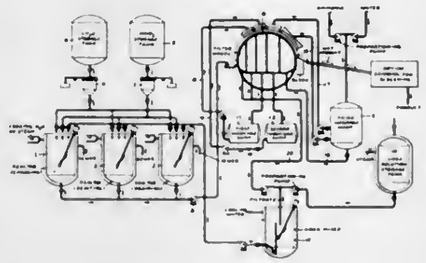
**2,644,806**

## PROCESS FOR PREPARING A FERTILIZER CONTAINING WATER-INSOLUBLE NITROGEN

**Mearl A. Kise, Portsmouth, Va., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York**

**Application September 14, 1950, Serial No. 184,894**

**10 Claims. (Cl. 260—69)**



8. In a process wherein a solid urea-formaldehyde reaction product is precipitated from an aqueous solution of urea and formaldehyde and the precipitated solid is separated from mother liquor containing dissolved urea and formaldehyde, the improvement which comprises inhibiting further precipitation of solid from said mother liquor by incorporating therein, immediately after separation of the mother liquor from the solid, urea in amount sufficient to increase the ratio of urea to formaldehyde to at least 6 mols urea to 1 mol formaldehyde.

9. The process for the production of a urea-formaldehyde reaction product containing insoluble nitrogen available as plant food which comprises reacting urea and formaldehyde in an acidic aqueous solution in which the total concentration of these reactions is in the range 15% to 30% and an insoluble reaction product is precipitated from the solution under the following conditions: (1) initial acidity of the aqueous solution in the range pH 0.9 to about 1.7; (2) mol ratio of urea to formaldehyde in the range 2.5:1 to 4:1; (3) temperature of the aqueous solution in the range 25° to 45° C.; (4) reaction time about ½ to about 1½ hours; and (5) when the temperatures maintained are above 35° C. the pH of the solution is progressively greater from 0.9 to at least 1.3, the urea-formaldehyde mol ratio is progressively greater from 3:1 to 4:1 and the maximum reaction time is progressively shorter from 1½ to ½ hour as high reaction temperatures are employed up to a temperature of 45° C.

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**2,644,807**

## POLYVINYL ACETAL RESINS

**Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**

**No Drawing. Application March 8, 1951, Serial No. 214,645**

**8 Claims. (Cl. 260—73)**

8. The resinous condensation product of a partially hydrolyzed polyvinyl alcohol ester homopolymer and a condensation product of ammonia and butyraldehyde.



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**2,644,808**

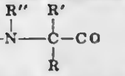
## N-CARBOANHYDRIDES AND POLYMERS THEREFROM

**Merlin Martin Brubaker, Chadds Ford, Pa., and Robert Neal MacDonald, New Castle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application December 7, 1948, Serial No. 64,042**

**13 Claims. (Cl. 260—78)**

6. A film- and fiber-forming polymer whose recurring units are alpha-amino acid units, 10–100% of which are of the formula



wherein R, R', and R'' are primary alkyl groups and total from three to six carbons, said polymer having a degree of polymerization of at least 25.

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**2,644,809**

## FRIEDEL-CRAFTS ISOBUTYLENE POLYMERIZATIONS IN CHLOROFLUOROALKANE SOLUTION

**John S. Saylor, Jr., Sinking Spring, Pa., assignor to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application January 11, 1950, Serial No. 138,063**

**8 Claims. (Cl. 260—85.3)**

1. A polymerization process comprising the steps in combination of mixing together a major proportion of a monoolefin having from 4 to 8, inclusive, carbon atoms per molecule, with a minor proportion of a multiolefin having from 4 to 14, inclusive, carbon atoms per molecule, and polymerizing the resulting mixture with a dissolved Friedel-Crafts catalyst, in the presence of from 1 to 10 volumes (computed upon the mixed olefins) of a liquid selected from the group consisting of dichlorodifluormethane, trichloromonofluormethane, dichloromonofluormethane, dichlorotetrafluorethane, and mixtures thereof, the monoolefin and multiolefin being dissolved in said liquid, and carrying out the polymerization at a temperature between −20° C. and the freezing point of the liquid, the resulting polymer being characterized by a higher unsaturation and higher curing rate.

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**2,644,810**

## METHOD OF SULFURIZING ESTERS

**Helen Selliel Beretvas, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**

**No Drawing. Application June 29, 1949, Serial No. 102,170**

**20 Claims. (Cl. 260—97.5)**

1. The method of sulfurizing an unsaturated mono-ester of an aliphatic acid having the general formula



in which R is a hydrocarbon group selected from the class consisting of a straight chain aliphatic group and an unsaturated cyclo-aliphatic group, R' is a straight chain aliphatic hydrocarbon group, and X is selected from the group consisting of sulfur and oxygen, and wherein when R and R' are both straight chain aliphatic groups, at least one is unsaturated, and at least one contains at least 8 carbon atoms and mixtures of said esters, comprising reacting said ester with a sulfur chloride and from about 5 per cent to about 50 per cent by volume of water free of ammonia at a temperature of from about 40° F. to about 250° F. in the absence of added hydrogen sulfide.

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**2,644,811**

## SULFURIZATION OF OXYGENATED ALIPHATIC COMPOUNDS

**Helen Selliel Beretvas, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**

**No Drawing. Application July 30, 1949, Serial No. 107,822**

**19 Claims. (Cl. 260—125)**

1. The method of sulfurizing a substantially saturated oxygenated aliphatic compound having a small degree of unsaturation but having a Hanus iodine number of not more than about 45, comprising reacting said oxygenated compound with sulfur chloride, and from about 5% to about 50% by volume of water at a temperature of from about 40° F. to about 250° F. in the absence of added hydrogen sulfide.

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**2,644,812**

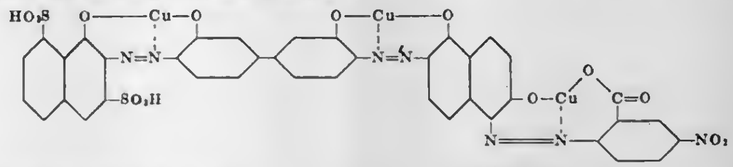
## CUPRIFEROUS POLYAZO DYESTUFFS

**Hans Ruckstuhl and Walter Wehrli, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm**

**No Drawing. Application December 3, 1951, Serial No. 259,692. In Switzerland December 7, 1950**

**6 Claims. (Cl. 260—145)**

2. The polyazo dyestuff corresponding to the formula



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**2,644,813**

## CUPRIFEROUS POLYAZO DYESTUFFS

**Hans Ruckstuhl and Walter Wehrli, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm**

**No Drawing. Application January 16, 1952, Serial No. 266,778. In Switzerland January 19, 1951**

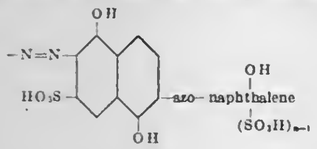
**8 Claims. (Cl. 260—145)**

1. A copper complex compound of a polyazo dyestuff corresponding to the formula

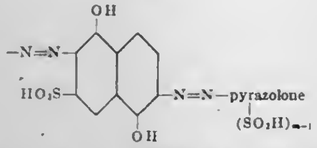


wherein $R^1$ stands for the radical of a monoazo

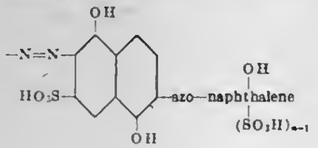
dyestuff selected from the group consisting of

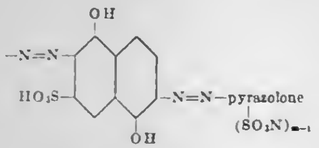


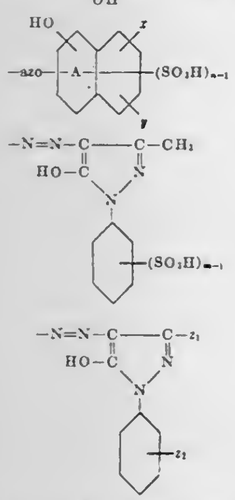
and



the OH group of "naphthalene" being linked to said radical in ortho-position to -azo-, $n$ is one of the whole numbers 1, 2, 3 and 4, and $m$ is one of the whole numbers 1, 2 and 3, and wherein $R^2$ stands for a substituent selected from the group consisting of







and



the OH group of "naphthalene" and the nucleus A respectively being linked to said radicals in ortho-position to -azo-, $n$ is one of the whole numbers 1, 2, 3 and 4, $m$ being one of the whole numbers 1, 2 and 3, $x$ is a member selected from the group consisting of —H, —OH, —$NH_2$, —NH-lower alkyl, —NH-mononuclear aryl and —NH— acyl, $y$ is a member selected from the group consisting of —H, and —Cl, $z_1$ is a member selected from the group consisting of —$CH_3$ and —COOH, and $z_2$ is a member selected from the group consisting of —H and —COOH.

2,644,814

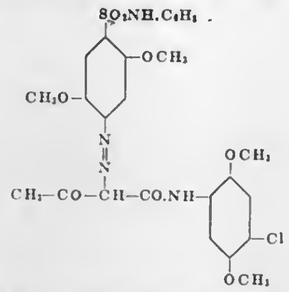
## WATER-INSOLUBLE MONOAZODYESTUFFS

**Ernst Fischer, Offenbach am Main, Germany, assignor to Farbwerke Hoechst A. G. vormals Meister Lucius und Brüning, Frankfurt, Germany**

**No Drawing. Application January 9, 1951, Serial No. 205,218. In Germany January 20, 1950**

**6 Claims. (Cl. 260—193)**

3. The monoazo dyestuff of the following formula:



being a water-insoluble yellow powder.

2,644,815

## PROCESS FOR PRODUCING DEXTRAN PRODUCTS HAVING SUBSTANTIALLY UNIFORM MOLECULAR SIZE FOR PHARMACEUTICAL AND THERAPEUTIC PREPARATIONS

**Anders Johan Troed Grönwall and Björn Gustaf-Adolf Ingelman, Uppsala, Sweden, assignors to Aktiebolaget Pharmacia, Stockholm, Sweden, a company of Sweden**

**No Drawing. Application September 30, 1949, Serial No. 119,002. In Sweden October 15, 1948**

**7 Claims. (Cl. 260—209)**

1. In the production of dextran preparations of substantially uniform molecular size, the process which comprises adding, to an aqueous solution of partially-degraded dextran having a wide range of molecular size, a quantity of a water-miscible organic solvent which is a non-solvent for dextran and selected from a class consisting of alcohols and ketones, the amount added being only sufficient to produce a precipitate and to leave a substantial quantity of dextran still dissolved, removing the resulting precipitate containing a relatively-uniform high-molecular dextran fraction from the solution, adding an additional quantity of the organic solvent to the solution sufficient to form a second precipitate therein while leaving a quantity of low-molecular dextran still dissolved, and recovering the said second precipitate containing dextran of a relatively-uniform intermediate molecular size.

2,644,816

## PURIFICATION OF ANTIBIOTICS WITH WATER INSOLUBLE CARBOXYLIC ACIDS

**William A. Lott, Maplewood, William Braker, Newark, and Andrew Ellis O'Keeffe, Woodbridge, N. J., assignors, by mesne assignments, to Mathieson Chemical Corporation, Baltimore, Md., a corporation of Virginia**

**No Drawing. Application July 19, 1947, Serial No. 762,205**

**17 Claims. (Cl. 260—210)**

1. The method which comprises intimately contacting an aqueous solution of an antibiotic of the group consisting of streptomycin, dihydrostreptomycin, streptothricin, and water-soluble salts of these with a substantially water-insoluble carboxylic acid and a substantially water-immiscible organic solvent for the carboxylic acid.

8. The method of purifying streptomycin, which comprises treating a primary streptomycin-containing liquid with an activated charcoal, eluting the streptomycin from the charcoal with an aqueous, water-soluble mineral acid, intimately contacting the eluate with a substantially water-insoluble carboxylic acid and a substantially water-immiscible organic solvent for the carboxylic acid, recovering the organic solvent phase, intimately contacting the organic solvent solution with an aqueous, water-soluble, relatively-strong acid, and recovering the aqueous phase.



2,644,817

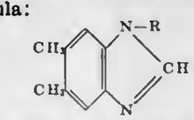
## 1-GLYCOSIDO-5,6 DIMETHYL BENZIMIDAZOLES AND PROCESS THEREFOR

**Frederick W. Holly, Cranford, Clifford H. Shunk, Westfield, Joseph J. Cahill, Princeton, and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**

**No Drawing. Application October 28, 1949, Serial No. 124,236**

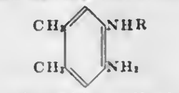
**18 Claims. (Cl. 260—211.5)**

1. 1-glycosido-5,6-dimethylbenzimidazole having the formula:

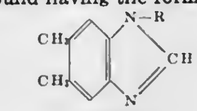


wherein R represents a glycosido radical having at least 4-carbon atoms.

9. The process which comprises reacting a glycosido compound having the formula



wherein R is a glycosido radical having at least 4 carbon atoms, with a member selected from the group consisting of formic acid esters and alkyl formimino ether hydrohalides to produce a glycosido compound having the formula



2,644,818

## MANUFACTURE OF CELLULOSE ETHERS

**John Downing and James Gordon Napier Drewitt, Spondon, near Derby, England, assignors to British Celanese Limited, a company incorporated of Great Britain**

**No Drawing. Application January 14, 1950, Serial No. 138,703. In Great Britain February 25, 1949**

**4 Claims. (Cl. 260—231)**

1. Process for the manufacture of water-soluble cellulose ethers, which comprises impregnating sheet cellulose with caustic soda solution, pressing out excess solution until the sheet contains less than 5 moles of caustic soda for each mole of cellulose, breaking up the sheet of alkali cellulose so obtained into a particulate form having a superficial area of 1 to 6 square inches and having a packing density above 15 pounds/cubic foot, mixing the alkali cellulose with an alkyl chloride, containing 1 to 3 carbon atoms in the molecule, in the liquid phase, and allowing the alkali cellulose and the alkyl chloride to react until the water-soluble alkyl cellulose has been formed, the alkyl chloride being kept in the liquid phase and substantially still during the reaction.

2,644,819

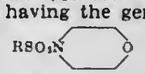
## MORPHOLINE DERIVATIVES

**Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application June 26, 1950, Serial No. 170,463**

**8 Claims. (Cl. 260—247.1)**

1. Compounds having the general formula



in which R is an alkyl radical of from 8 to 25 carbon atoms.

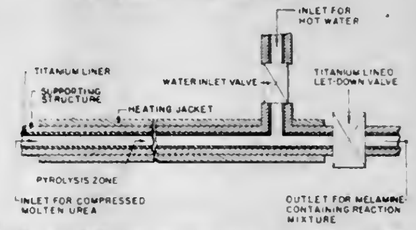
2,644,820

## APPARATUS AND METHOD FOR PREPARING MELAMINE

**William F. Gresham, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**Application January 5, 1950, Serial No. 136,943**

**8 Claims. (Cl. 260—249.7)**




3. A process for minimizing corrosion difficulties in the preparation of melamine from urea which comprises pyrolyzing urea at a temperature within the range of from 275° C. to 550° C. and under a pressure in excess of 200 atmospheres in a reaction vessel having an inner surface consisting of titanium, removing the reaction mixture from the reaction vessel through a titanium-lined let-down valve which is heated from an external source, and thereafter separating melamine from the reaction mixture.

2,644,821

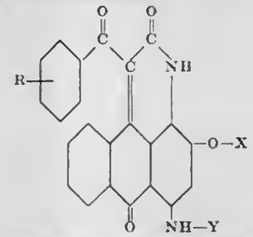
## ANTHRAPYRIDONE DYESTUFFS

**Albin Peter and Jacques Günthart, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm**

**No Drawing. Application June 28, 1951, Serial No. 234,139. In Switzerland June 30, 1950**

**6 Claims. (Cl. 260—278)**

1. A dyestuff of the anthrapyridone series corresponding to the formula



wherein X stands for a member selected from the class consisting of phenyl, alkylphenyl and

cycloalkylphenyl groups, Y stands for a member selected from the group consisting of phenyl, alkylphenyl, phenoxyphenyl, chlorophenyl, bromophenyl, diphenyl and tetrahydronaphthyl radicals, and R is a member selected from the class consisting of H, $CH_3$, Cl, Br, $OCH_3$ and nitro.

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**2,644,822**

**2,3-BIS-(OXYBENZYL)-BUTANE DERIVATIVES**

**Irwin A. Pearl, Appleton, Wis., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis., a corporation of Wisconsin**

**No Drawing. Application August 26, 1949, Serial No. 112,638**

**7 Claims. (Cl. 260—340.9)**

4. The product 2,3-bis-(3,4-methylenedioxybenzyl)-2,3-butanediol.

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**2,644,823**

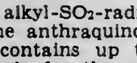
**CYCLIC FLUOROCARBON ETHERS**

**Edward A. Kauck, St. Paul, Minn., and Joseph H. Simons, Gainesville, Fla., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware**

**No Drawing. Application March 29, 1952, Serial No. 279,467**

**6 Claims. (Cl. 260—345.1)**

1. The saturated cyclic fluorocarbon ethers represented by the formula:



where $m$ has an integer value of 3 to 4, and $n$ has a value such that the total number of carbon atoms is an integer in the range of 6 to 10.

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**2,644,824**

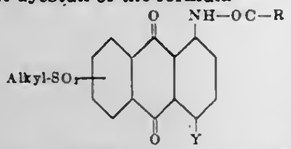
**ACYLAMINO ALKYLSULFONE ANTHRAQUINONE VAT DYESTUFFS**

**Walter Jenny, Reinach, near Basel, and Walter Kern, Sissach, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm**

**No Drawing. Application February 5, 1951, Serial No. 209,514. In Switzerland February 15, 1950**

**7 Claims. (Cl. 260—372)**

1. A vat dyestuff of the formula



wherein the alkyl-$SO_2$-radical stands in a $\beta$-position of the anthraquinone nucleus and the alkyl group contains up to 6 carbon atoms, —OC—R stands for the radical of a benzene monocarboxylic acid which is free from substituents imparting solubility, and Y stands for a member selected from the group consisting of a hydrogen atom and the radical —NH—OC—R wherein —OC—R has the meaning already given.

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**2,644,825**

**METHOD OF SULFURIZING FATS AND FATTY ACIDS**

**Helen Seliel Beretvas, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**

**No Drawing. Application August 5, 1949, Serial No. 108,856**

**18 Claims. (Cl. 260—399)**

1. The method comprising reacting an unsaturated aliphatic compound having at least eight carbon atoms and at least one double bond selected from the group consisting of a fat, fatty acid and mixtures thereof, with a sulfur chloride in the presence of from about 5% to about 50% by volume of water at a temperature of from about 40° F. to about 250° F. in the absence of added hydrogen sulfide.

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**2,644,826**

**DI-NITROGEN CONTAINING DI-CARBOXYLIC ACIDS**

**John D. Spivack, Bayonne, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware**

**No Drawing. Application June 15, 1951, Serial No. 231,891**

**15 Claims. (Cl. 260—404.5)**

1. Di(N-carboxyalkyl alkanamides) in which the alkanoyl radical of the alkanamide grouping is an alkanoyl residue of a long chain fatty acid.

15. A method for preparation of a compound containing two nitrogen atoms and two carboxylic groups per molecule from a (N-alkanoyl)iminodipropionitrile in which the alkanoyl radical in the (N-alkanoyl) group is an alkanoyl residue of a fatty acid of about 6 to about 30 carbon atoms which comprises subjecting said nitrile to basic hydrolysis in presence of an alcohol under ammonia-producing conditions to produce a reaction mixture comprising a compound containing two nitrogen atoms and two carboxylic groups per molecule in the form of a salt thereof, and hydrolyzing the reaction mixture to convert said salt to its corresponding free dicarboxylic acid.

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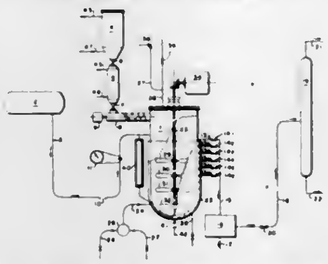
**2,644,827**

**MANUFACTURE OF TETRAETHYLLEAD**

**Clarence M. Neher, Frank L. Padgitt, and Paul E. Weimer, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware**

**Application August 31, 1951, Serial No. 244,514**

**6 Claims. (Cl. 260—437)**



1. The continuous process of making tetraethyllead comprising feeding an alkali metal alloy of lead and a liquid ethylating agent to an ethylation zone, in the proportions of at least 2 parts by weight of ethylating agent to 1 part by weight of alloy, and ethylating therein, agitating the ethylation mixture only sufficiently to maintain the reacting and reacted solids in non-uniform distribution in a liquid comprising a solution of tetraethyllead in the ethylating agent, said liquid being of uniform composition throughout the ethylation zone, and withdrawing at a point remote from the bottom of the ethylation zone a slurry of solids in the liquid, said solids being more ethylated than the solids in the ethylation zone.



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**2,644,828**

**CRYSTALLINE FERRIC AMMONIUM CITRATE COMPOUNDS**

**Harry J. Kruse, St. Louis, and Henry C. Mounce, Ferguson, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri**

**Application June 10, 1949, Serial No. 98,204**

**14 Claims. (Cl. 260—439)**

14. A compound selected from the group consisting of the green crystalline ferric ammonium citrate containing approximately 14.7% iron and approximately 8.6% ammonia by weight, and the brown crystalline ferric ammonium citrate containing approximately 14% iron by weight and having a refractive index $n$ equal to approximately 1.592, each of which compounds will produce sharp lines when studied by the powder method of X-ray diffraction.

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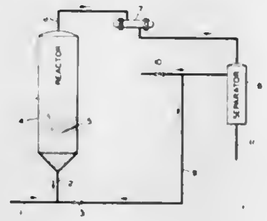
**2,644,829**

**PRECONDITIONING HYDROCARBON SYNTHESIS CATALYST**

**John Paul Hogan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application December 6, 1948, Serial No. 63,678**

**8 Claims. (Cl. 260—449.6)**



1. In a process for the synthesis of organic compounds from carbon monoxide-hydrogen mixtures in which said mixtures are contacted with a finely divided fluidized catalyst having a high initial activity, the method of modifying such initial activty which comprises contacting said catalyst for a period limited to from 5 to 15 hours with a synthesis gas comprising carbon monoxide and hydrogen at a synthesis reaction temperature within the range of between 180° C. and 340° C. based upon a particular catalyst utilized, at a pressure not over five atmospheres and a space velocity of said synthesis gas lower than that required to effect the synthesis reaction under the conditions used, and gradually increasing said pressure and space velocity as the initial activity of said catalyst decreases until a pressure and a space velocity are attained at which the synthesis reaction is effected.

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**2,644,830**

**VANILLIMINO ETHYL ETHER AND ITS SALTS OF ANHYDROUS ACIDS**

**Irwin A. Pearl, Appleton, Wis., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis., a corporation of Wisconsin**

**No Drawing. Application March 22, 1951, Serial No. 217,074**

**5 Claims. (Cl. 260—453)**

1. A product selected from the class consisting of vanillimino ethyl ether and its salts of anhydrous acids.

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**2,644,831**

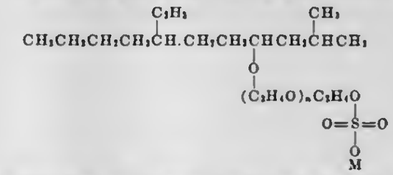
**ALKALI METAL AND AMMONIUM SULFATES OF HYDROXY ETHERS**

**Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application April 16, 1951, Serial No. 221,317**

**3 Claims. (Cl. 260—458)**

1. Compounds having the general formula



in which $n$ is an integer having a value of from 2 to 18 and M is selected from the class consisting of alkali metal and ammonium.

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**2,644,832**

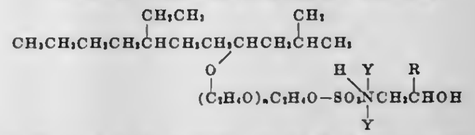
**ALKANOL AMINE SULFATES**

**Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

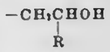
**No Drawing. Application April 16, 1951, Serial No. 221,318**

**5 Claims. (Cl. 260—458)**

1. Chemical compounds having the formula



in which $n$ is an integer having a value of from 2 to 18, R is selected from the class consisting of hydrogen and the methyl radical and Y is selected from the class consisting of hydrogen and the radical



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**2,644,833**

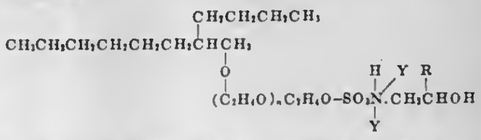
**ALKANOLAMINE SULFATES OF HYDROXY ETHERS**

**Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application April 16, 1951, Serial No. 221,319**

**8 Claims. (Cl. 260—458)**

1. Chemical compounds having the general formula



in which $n$ is an integer having a value of at least 2, but not in excess of 10, R is selected from the class consisting of hydrogen and the methyl radical, and Y is selected from the class consisting of hydrogen and the radical



2,644,834
## PROCESS FOR THE PRODUCTION OF NITRILES

**Nicolaas Max, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application December 19, 1950, Serial No. 201,681. In the Netherlands December 30, 1949**

**4 Claims. (Cl. 260—465.1)**

1. A method for producing nitriles which consists of heating an alcohol with ammonia in the presence of a catalyst consisting of at least one metal sulfide of the group consisting of zinc sulfide, tungsten sulfide, nickel sulfide, vanadium sulfide, magnesium sulfide, titanium sulfide and chromium sulfide, and recovering the nitrile product from the resulting mixture.

2,644,835
## COUPLED PRODUCTS

**Elbert C. Ladd, Passaic, and Herbert Sargent, Wood-Ridge, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey**

**No Drawing. Application June 5, 1947, Serial No. 752,820**

**8 Claims. (Cl. 260—465.7)**

1. Compounds having the general formula $(R—CH_2—CX_2—)_2$ wherein R is a solely aliphatic radical which is attached to the $CH_2$ through a carbon atom, and each X is selected from the group consisting of chlorine and bromine.

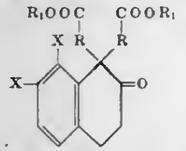
2,644,836
## 1,1-DISUBSTITUTION PRODUCTS OF 2-TETRALONES

**Milton D. Soffer, Northampton, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York**

**No Drawing. Application April 27, 1950, Serial No. 158,587**

**1 Claim. (Cl. 260—473)**

Compounds of the formula



wherein R is an alkylene group of from 1 to 2 carbon atoms, $R_1$ is selected from the group consisting of hydrogen and lower alkyl groups and X is selected from the group consisting of hydrogen and lower alkoxy groups.

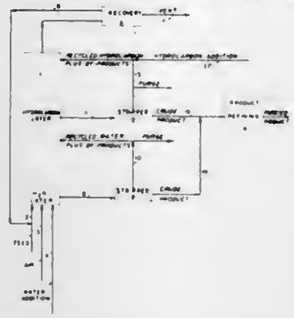
2,644,837
## OXIDATION OF OLEFINIC COMPOUNDS

**Carl E. Schweitzer, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**Application April 27, 1951, Serial No. 223,224**

**11 Claims. (Cl. 260—484)**

1. A process which comprises subjecting an organic carbon compound containing from 2 to 6 carbon atoms and containing a single olefinic linkage to oxidation at superatmospheric pressure and at a temperature in excess of 100° C in the presence of ingredients comprising (*a*) an oxygen-containing gas, (*b*) a medium comprising water and an inert liquid hydrocarbon, and (c) a recycled by-product produced in a previous oxidation of the said organic carbon compound with an oxygen-containing gas, and separating a



polyhydroxy compound from the resulting reaction medium.

2,644,838
## PRODUCTION OF NITROMALONIC ESTERS

**David I. Weisblat and Douglas A. Lyttle, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**

**No Drawing. Application July 28, 1950, Serial No. 176,546**

**4 Claims. (Cl. 260—485)**

1. In a process for the nitration of dialkyl esters of malonic acid with fuming nitric acid to produce a dialkyl mononitromalonate, the improvement which consists in adding the fuming nitric acid portionwise to the dialkyl malonate at a temperature between about fifteen and fifty degrees centigrade and thereafter maintaining the reaction temperature between such limits, the total reaction time being from about four hours to about fifty minutes, the reaction time varying inversely with the reaction temperature.

2,644,839
## CATALYTIC ESTERIFICATION PROCESS

**Albert C. Zettlemoyer, William C. Walker, and William L. Stump, Bethlehem, Pa., assignors to Food Machinery and Chemical Corporation, a corporation of Delaware**

**No Drawing. Application June 18, 1947, Serial No. 755,484**

**19 Claims. (Cl. 260—488)**

4. In the catalytic production of esters from organic acids and alcohols at high temperatures, the improvement which comprises conducting mixed vapors containing the acid and alcohol through a reaction zone in contact with a hot finely divided solid catalytic material composed of an adsorbent carrier containing an organic salt of a heavy metal selected from the group consisting of lead, zinc and ferric iron, with an unsubstituted carboxylic acid, the acid radical of which is that of the same acid used for reacting with the alcohol.

2,644,840
## OXIDATION OF HYDROCARBONS

**David Samuel Petrie Roebuck, Wrexham, Wales, assignor, by mesne assignments, to Monsanto Chemicals Limited, London, England, a British company**

**No Drawing. Application July 7, 1949, Serial No. 103,523. In Great Britain August 7, 1948**

**6 Claims. (Cl. 260—524)**

1. In the process for the production of oxygenated aromatic compounds by the oxidation of



alkyl aromatic hydrocarbons in the liquid phase by means of gaseous oxygen and in which process the said oxidation is first initiated by peroxide initiators and thereafter the said oxidation is inhibited by oxidation inhibiting bodies simultaneously formed therein, the improvement which comprises adding to said liquid phase a solid, inorganic adsorbent in such an amount as to adsorb said oxidation inhibiting bodies but insufficient to adsorb said oxidation promoting bodies.

2,644,841
## OXIDATION PROCESS FOR PRODUCTION OF 2,6-NAPHTHALIC ACID

**Georges E. Tabet, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application January 20, 1951, Serial No. 207,066**

**1 Claim. (Cl. 260—524)**

A process for preparing 2,6-naphthalic acid by oxidation of 2-methyl-6-acetylnaphthalene which comprises heating in the liquid phase 2-methyl-6-acetylnaphthalene with aqueous nitric acid in which the weight ratio of $H_2O$:$HNO_3$ is from 2.37:1 to 10:1, at a temperature within the range of 199° C. to 206° C., the initial mol ratio of $HNO_3$:2-methyl-6-acetyl-naphthalene being from 3:1 to 9:1, continuing the said oxidation until the 2-methyl-6-acetylnaphthalene is converted exclusively to methyl naphthoic acid and 2,6-naphthalic acid, the said conversion of 2-methyl-6-acetylnaphthalene to 2,6-naphthalic acid being from 27% to 40% on a mol basis, during a reaction time of from 1 to 30 minutes, and thereafter separating 2,6-naphthalic acid from the resulting product.

2,644,842
## CATALYTIC HYDROGENATION OF NITRILES

**Glenn F. Hager, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application June 14, 1950, Serial No. 168,153**

**10 Claims. (Cl. 260—583)**

1. A process for the preparation of aliphatic amines which comprises heating a mixture of a monomeric aliphatic nitrile containing only carbon, hydrogen, and nitrile nitrogen, with a mixture of carbon monoxide and hydrogen in mole ratio from 1:10 to 3:1, at 100–275° C. and a pressure of at least 200 atmospheres, in contact with a catalyst essentially comprising a carbonyl of an eighth group element of atomic number 27 to 44.

2,644,843
## METHOD OF ALKYLATION OF ARYLMETHYL METHYL KETONES

**Frank S. Crossley, Collingdale, Pa., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**

**No Drawing. Application December 30, 1949, Serial No. 136,177**

**8 Claims. (Cl. 260—590)**

1. A process for the alkylation of arylmethyl methyl ketones comprising heating, without the addition of water, an arylmethyl methyl ketone with an alkylating agent chosen from the group consisting of alkyl halides, dialkyl sulfates, and alkyl arylsulfonates in the presence of an alkali hydroxide chosen from the group consisting of sodium hydroxide and potassium hydroxide.

2,644,844
## PROCESS OF PREPARING ALCOHOLS FROM OLEFINS

**Richard E. Brooks and Ralph C. Schreyer, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application January 25, 1950, Serial No. 140,556**

**1 Claim. (Cl. 260—638)**

A process for the synthesis of a branched chain primary heptadecyl alcohol which comprises reacting carbon monoxide and hydrogen simultaneously with tetraisobutylene and methyl acetate at a temperature of 255° to 275° C., in the presence of a catalytic quantity of cobalt acetate dissolved in the reaction mixture, under a pressure within the range of from 325 to 1500 atmospheres, the mol ratio of carbon monoxide : $H_2$ being initially in the range of about 1:3 to 3:1, whereby a mixture containing methanol and an acetic acid ester of branched chain primary heptadecyl alcohol is obtained, and thereafter recovering the said heptadecanol by methanolysis of the said ester.

2,644,845
## HALOGENATION OF FLUOROCARBONS

**Earl T. McBee, West Lafayette, Ind., assignor to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana**

**No Drawing. Application June 20, 1947, Serial No. 756,103**

**5 Claims. (Cl. 260—653)**

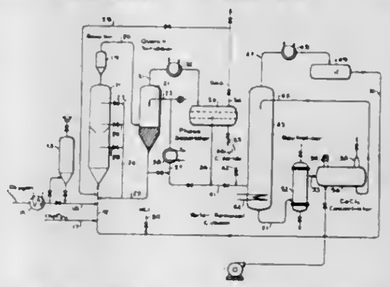
1. The process which comprises: heating a 1,1,1-trihalogenated alkane containing from 2 to 3 carbon atoms, at least two of the halogen atoms being fluorine, with a halogen selected from the group consisting of chlorine and bromine, for a contact time between 2.7 and 30 seconds, in the vapor phase, under anhydrous conditions, at a reaction temperature between about 365 and 450 degrees centigrade, the volume proportion of halogen to trihaloalkane being between 0.8:1 and that proportion of halogen required to physically saturate the trihaloalkane at 45 degrees centigrade, and separating the reaction products.

2,644,846
## HYDROGEN CHLORIDE OXIDATION

**Ava J. Johnson, Oakland, and Alexander J. Chernlavsky, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**Application December 11, 1948, Serial No. 64,746**

**9 Claims. (Cl. 260—659)**



9. In a catalyst process wherein chlorine is produced by contacting an oxygen-containing gas and hydrogen chloride with a catalyst comprising a chloride of a metal of variable valence

at hydrogen chloride oxidizing conditions in the presence of a hydrocarbon chlorine acceptor in a reaction zone, thereby chlorinating said hydrocarbon with said chlorine and forming reaction products comprising the resulting chloro-hydrocarbon, water, chlorine and hydrogen chloride, the steps which comprise passing said reaction products in admixture with catalyst from said reaction zone into a quenching zone, bringing said catalyst-containing reaction products into direct contact with liquid aqueous hydrogen chloride in said quenching zone, thereby forming a catalyst-containing liquid phase comprising aqueous hydrogen chloride and a gaseous phase substantially free of catalyst comprising said chloro-hydrocarbon, water, chlorine and hydrogen chloride in said quenching zone, and passing at least a part of said catalyst-containing liquid phase from said quenching zone into said reaction zone.

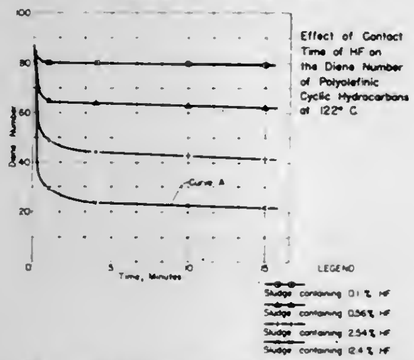
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2,644,847

**PROCESS AND PRODUCT OF PRODUCING HYDROCARBON DRYING OILS**

**Herman S. Bloch, Chicago, and Alfred E. Hoffman, Clarendon Hills, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**

**Application September 29, 1948, Serial No. 51,814**
**7 Claims. (Cl. 260—666)**




1. A process for improving a hydrocarbon drying oil recovered from a conjunct polymerization sludge as a mixture of polyolefinic cyclic hydrocarbons having diene numbers of at least 80 and containing from about 2.5 to about 4 double bonds per molecule of which an average of from about 1.5 to about 2.5 belong to a conjugated dienic system, which comprises subjecting said drying oil to an isomerization temperature in admixture with an amount of a conjunct polymerization catalyst less than the theoretical quantity required to form catalyst-hydrocarbon complexes, continuing the isomerization treatment of the drying oil at said temperature and with said catalyst until its diene number has been reduced to a value of from about 15 to about 65, and recovering the thus isomerized drying oil of reduced diene number.

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2,644,848

**PREPARATION OF CYCLOOCTATRIENE**

**Louis E. Craig, Washington, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application September 29, 1950, Serial No. 187,674**
**3 Claims. (Cl. 260—666)**

1. A process for the production of cyclooctatriene which comprises reducing cyclooctatetraene with an alkali metal in the presence of liquid ammonia.

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2,644,849

**PREPARATION OF CYCLOOCTATRIENE**

**Louis E. Craig, Washington, N. J., and Irma J. Ressa, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application March 14, 1951, Serial No. 215,625**
**5 Claims. (Cl. 260—666)**

1. A process for the production of cyclooctatriene, which comprises reacting cyclooctatetraene with an alkali metal and with at least 2 molecular equivalents of an organic nitrogen base having at least one hydrogen attached to the nitrogen thereof, in solution in an ether at a temperature not substantially exceeding 30° C.

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2,644,850

**TREATMENT OF RUBBER**

**William McGillivray Morgan, Amersham, England, assignor to Monsanto Chemicals Limited, London, England, a British company**

**No Drawing. Application March 6, 1952, Serial No. 275,219. In Great Britain June 21, 1948**
**14 Claims. (Cl. 260—763)**

1. A process of vulcanizing a sulfur vulcanizable conjugated diene polymer rubber with sulfur and an organic accelerator in which there is employed as vulcanization retarder a small amount of a member of the group consisting of zinc, calcium, magnesium, copper and barium salts of an aryl sulfonic acid.

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# ELECTRICAL

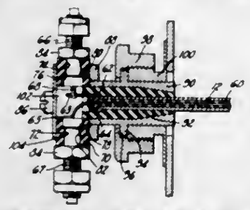
2,644,851

**THERMOCOUPLE**

**Kenneth W. Tapke, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**

**Application May 4, 1950, Serial No. 160,053**
**1 Claim. (Cl. 136—4)**

A thermocouple device comprising a metal sleeve forming a conductor for said device, a non-metallic lining throughout a substantial length of the sleeve, a wire forming another conductor for said device and passing through said sleeve and separated therefrom by the lining, said wire being made of metal unlike that of the sleeve and secured in contact relationship to said sleeve at one end to provide a thermojunction, means carried by the metal sleeve but insulated therefrom for fastening the device to a supporting structure, said metal sleeve providing a support





for said wire and lining and having a greater part of its length extending beyond said supporting structure, said last named means also providing a terminal support, and terminals carried by said last named support to be connected to the ends of the conductors opposite the thermojunction.

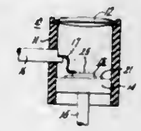
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2,644,852

**GERMANIUM PHOTOCELL**

**William C. Dunlap, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application October 19, 1951, Serial No. 252,139**
**12 Claims. (Cl. 136—89)**



1. A photosensitive device comprising a germanium wafer having a thickness not greater than .050 inch and having along its thickness dimension a P-type region, an N-type region, and an intermediate P–N junction, separate conductors connected to a substantial area of said P- and N-type regions respectively, and means for directing light through one of said regions to impinge upon said P–N junction from a direction substantially perpendicular to the plane of said junction, the region through which light is directed being less than .001 inch thick.

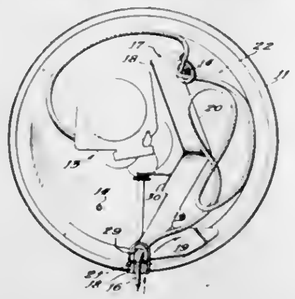
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2,644,853

**CASING FOR AN ELECTRICAL CLOCK MOVEMENT HAVING A CORD STORAGE COMPARTMENT**

**Ernest L. Berninger, Peru, and Dale L. Richards, La Salle, Ill., assignors to General Time Corporation, New York, N. Y., a corporation of Delaware**

**Application May 21, 1949, Serial No. 94,636**
**5 Claims. (Cl. 174—52)**



1. In a device having an electrical clock movement with an electric cord connected thereto the combination comprising a case having an opening through which said cord passes and having a front plate and a back plate, a separating member positioned in said case and extending from the front plate to the back plate for separating said case into a movement compartment and a substantially closed cord compartment, said member having stationary means to guide said cord into loops in said cord compartment when said cord is manually pushed into said opening.

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2,644,854

**COLOR TELEVISION RECEIVER**

**George C. Szikiai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application December 1, 1948, Serial No. 62,886**
**7 Claims. (Cl. 178—5.4)**



3. A color television reproducing device comprising in combination a multiple component color image producing tube, a filter element having a plurality of peaks in the visible portion of its spectro-photometric response characteristic, and wherein said peaks correspond substantially to the component colors of said component color image producing tube.

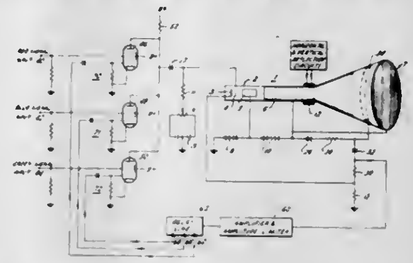
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2,644,855

**CATHODE-RAY TUBE SYSTEM UTILIZING INDEXING SIGNALS**

**William E. Bradley, Newtown, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania**

**Application December 28, 1950, Serial No. 203,175**
**12 Claims. (Cl. 178—5.4)**



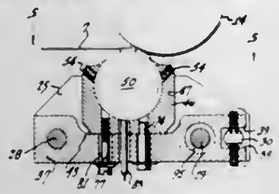
1. A cathode-ray tube system comprising, a cathode-ray tube having a cathode source of an electron beam, a control electrode for varying the intensity of said beam, a beam intercepting structure having first portions thereof spaced apart and comprising a material having a first given response characteristic upon electron impingement, said structure further comprising second portions arranged intermediate said spaced portions and comprising a material having a second given response characteristic upon electron impingement different from said first given response characteristic, means to periodically deflect said beam across said beam intercepting structure to thereby impinge said beam successively on said first and second portions, means to apply an input signal to said control electrode to thereby vary the intensity of said beam proportionally to variations of said input signal, means to produce a first signal proportional to intensity variations of said beam and to the variations of said response characteristics as said beam traverses said first and second portions, means to produce a second signal proportional to the intensity variations of said beam, and means to combine said first and second signals to produce an output signal having variations proportional to the variations of said response characteristics as said beam traverses said portions and substantially free of variations proportional to said intensity variations of said beam.

2,644,856

## MULTIPLE HEAD MOUNTING STRUCTURE

James L. Pettus, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application June 7, 1951, Serial No. 230,403
8 Claims. (Cl. 179—100.2)



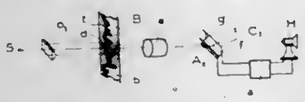
1. A mounting for a plurality of magnetic heads comprising a panel, a base block, a single bolt for attaching said block to said panel, said block being rotatable about the axis of said bolt, a plurality of elongated members spatially disposed in parallel planes, means for attaching said members to said base block, said means including a pair of rods about the axis of one of which members may be rotated, a yoke for each individual member, each yoke holding a magnetic head, means at the end of said members for adjusting said members in their respective planes with respect to each other, and a pair of rods for attaching said yokes to said members for individually rotating said yokes on said members, all of said members being simultaneously rotatable on said single bolt.

2,644,857

## RECORDING AND REPRODUCING SOUND

Emile Alfred Pierre, Paris, France, assignor to l'Electronique Moderne S. A. R. L., Valenciennes, France, a corporation of the French Republic

Application November 30, 1949, Serial No. 130,110
In France December 7, 1948
7 Claims. (Cl. 179—100.3)



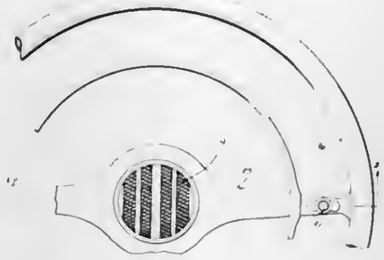
1. An arrangement for reproducing sound vibrations, comprising, in combination, a carrier strip of substantially uniform light permeability, said carrier strip having a sound record formed by a sound-recording line of substantially uniform width, said sound-recording line having a light permeability being different from the light permeability of said carrier strip; lens means focusing a light beam in a linear pencil across said carrier strip so that said pencil is transformed by said sound-recording line on said carrier strip into a point-shaped light spot the position of which depends on the shape of said sound-recording line, said point-shaped light spot omitting a light beam the position of which varies according to the variation of the position of said light spot; and a photoelectric cell having a cathode arranged in the path of said light beam so that the same forms on said cathode a light spot the position of which on said cathode varies depending upon the position of said light beam, said photoelectric cell being constructed so that its output varies in dependency upon the position on said cathode of said light spot formed thereon.

2,644,858

## STEERING WHEEL MICROPHONE

Kenneth W. Small, Independence, Mo.

Application May 11, 1951, Serial No. 225,821
2 Claims. (Cl. 179—146)



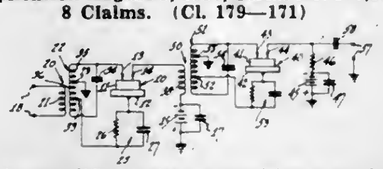
1. In a vehicle having a stationary steering column and a steering wheel rotatably mounted on said column, said steering wheel including a hollow hub and a plurality of spokes secured to said hub, a microphone mounted in said hub, a control switch mounted on one of said spokes, a plurality of contact rings secured on said column, respective contact brushes carried by said steering wheel and engaging said contact rings, a control relay, an energizing circuit for said control relay including said control switch and certain of the contact rings and contact brushes, and circuit means for connecting the microphone to a transmitter on the vehicle and including the contact of said control relay.

2,644,859

## STABILIZED SEMICONDUCTOR AMPLIFIER CIRCUITS

Loy E. Barton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application August 5, 1950, Serial No. 177,836
8 Claims. (Cl. 179—171)



1. An amplifier system comprising a semi-conductor device including a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, means for applying operating potentials to said electrodes, a signal input circuit providing an impedance element across which signals are impressed, two spaced taps on said impedance element being connected respectively to said base electrode and to said emitter electrode, a further tap intermediate said spaced taps on said impedance element being connected to a point of substantially fixed potential, thereby to impress said signals in push-pull on said base and emitter electrodes, and an output circuit coupled between said collector electrode and said point of substantially fixed potential, the impedance between said spaced taps and said further tap on said impedance element being so proportioned that



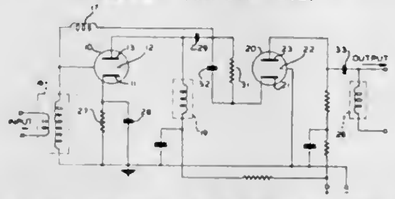
the equivalent negative resistance which appears looking into said base electrode is counteracted by the equivalent positive resistance which appears looking into said emitter electrode.

2,644,860

## HIGH-FREQUENCY WIDE BAND AMPLIFIER

Christopher P. Gadsden, Belmont, Alan B. Macnee, Boston, and Henry Wallman, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application February 5, 1946, Serial No. 645,622
7 Claims. (Cl. 179—171)



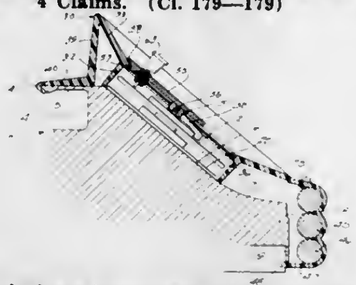
1. A high frequency, wide band amplifier circuit comprising, first and second triode electron tubes each having an anode, a cathode and a single grid, a relatively high resistance input circuit connected between the grid of said first tube and ground, the cathode of said first tube being effectively grounded at radio frequencies whereby said first tube provides a high impedance from anode to ground, a tuned coupling circuit connected in the anode circuit of said first tube and in the cathode circuit of said second tube, means directly connecting the grid of said second tube to ground whereby said second tube has a low input impedance, and a tuned output circuit having a relatively high impedance connected to the anode of said second tube.

2,644,861

## TELEPHONE INSTRUMENT MASK

Albert M. Jouban, Lafayette, La.

Application November 9, 1951, Serial No. 255,624
4 Claims. (Cl. 179—179)



1. A telephone instrument mask comprising a thin-walled body of resilient material of partly circular shape having an outer side and an inner side and having therein a circular opening of substantially the same size as a conventional telephone instrument dial and a flange of substantially cylindrical shape extending from the inner side of said body in surrounding relationship to said opening and adapted to rest at its distal edge on the top surface of a telephone instrument surrounding the dial thereof, said body also having a beveled annular portion surrounding said opening and provided with indicia corresponding to telephone dial indicia, a tongue extending from said annular portion and provided at its distal end with a hook formation adapted to engage the handle formation of an associated telephone instrument, legs extending from said annular portion opposite said tongue and adapted to engage over the front corners of an associated telephone instrument, a battery case formation between said legs and a bridge extending across said opening, a lever pivotally connected adjacent one end to said bridge at the center of said opening and having its other end in sliding engagement with the edge of said body around said opening, a socket formation carried by said lever adjacent the other end thereof, a dialing pin extending slidably through said socket formation and having a knob on its end at the other side of said lever, resilient means in said socket urging said pin in a direction toward said knob, said pin being manually depressible against the force of said resilient means into engagement with the dial of an associated telephone instrument.

2,644,862

## TROLLEY POLE

Carl G. A. Johnson, Jr., Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey

Application March 1, 1949, Serial No. 79,092
3 Claims. (Cl. 191—64)



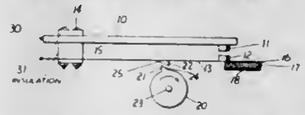
1. The combination, with an electrically operable vehicle, of a pair of trolley poles pivotally mounted on the vehicle in spaced and insulated relation and each pole provided with a current collecting head at its free end adapted to engage respectively a pair of trolley wires of opposite polarity, each trolley pole comprising an elongated tubular member of metal and a covering of plastic insulating material over the entire surface of each tubular member for a maximum of its length measured from the free end thereof to prevent metal to metal contact of one pole with the other pole and with the trolley wire, when dewirement occurs.

2,644,863

## ELECTRICAL SWITCH

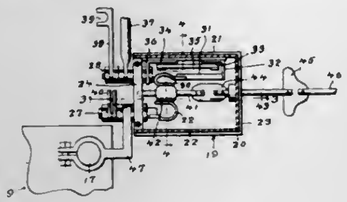
Robert A. Fryklund, Somerville, Mass., assignor to Raytheon Manufacturing Company, a corporation of Delaware

Application October 28, 1948, Serial No. 57,100
6 Claims. (Cl. 200—30)



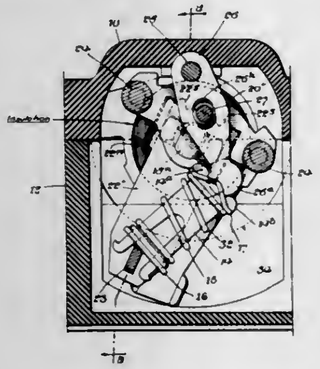
6. A momentary contact electrical switch comprising a fixed contact, an inelastic pad fixedly mounted with relation thereto, a flexible arm, said arm being supported at one end and carrying a movable contact on the portion at the other end thereof, said portion being disposed between said fixed contact and said pad, with said movable contact confronting said fixed contact, a rotatable cam having a cam lobe thereon disposed near the intermediate portion of said arm on the side thereof opposite said movable contact, a cam follower projection mounted on said arm in said intermediate portion on said side, said cam being positioned so that when slowly rotated it pushes said follower only far enough to bring said contacts near each other without touching, and means rapidly to rotate said cam and thereby to cast said movable contact upon said fixed contact, whereby said movable contact is cast upon but not squeezed against said fixed contact.

**2,644,864**
**BATTERY SWITCH**
Walter H. Childs, Sr., St. Petersburg, Fla.
Application April 10, 1951, Serial No. 220,181
1 Claim. (Cl. 200—52)



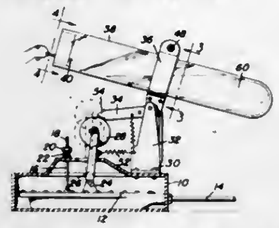
In a switch, a housing having a bottom wall, spaced parallel side walls and spaced parallel end walls, a cover detachably connected to said housing, a pair of spaced parallel terminals projecting into said housing, a finger projecting from one of said terminals, an arm pivotally connected to the other terminal and mounted for movement into and out of engagement with said finger, a pair of spaced spring contacts arranged in said housing and electrically connected to said terminals, a bar rotatably arranged in said housing, a body member mounted on said bar and mounted for movement into and out of electrical engagement with said contacts.

**2,644,865**
**SNAP SWITCH**
Robert H. Bentley, Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn., a corporation of Connecticut
Application June 9, 1950, Serial No. 167,135
12 Claims. (Cl. 200—67)



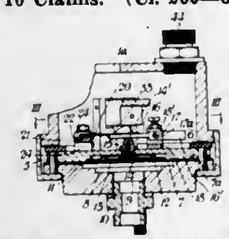
1. An electric snap switch comprising an over-center mechanism, means to actuate said mechanism comprising a lever pivoted about a fixed pivot and engaging with said over-center mechanism to swing the same over-center, operating means rockable about a fixed pivot displaced from said first fixed pivot, and a driving connection between said rockable means and said lever to cause movement of the lever by said rockable means, movable contact means, and means to mount said contact means pivotally around the same axis as said operating means for movement independently of said operating means with a snap action.

**2,644,866**
**PRESSURE RESPONSIVE MERCURY SWITCH**
Winifred J. Turnupseed, Porterville, and Harley E. Turnupseed, Tulare, Calif.
Application June 20, 1950, Serial No. 169,106
4 Claims. (Cl. 200—83)



1. In a pressure responsive switch assembly having a tiltable container partially filled with mercury, a pair of contacts in said container adapted to be closed by the mercury in one position of the switch, and a baffle wall in said container provided with a passageway for producing a delayed operation, a pressure responsive means for tilting said container, comprising a pressure responsive diaphragm, and means for completely tilting the mercury switch when the pressure responsive diaphragm is moved to a predetermined extent, said last named means including a member pivotally mounted on said diaphragm and responsive to the movement of the diaphragm, a roller rotatably secured on said member, a worker arm attached to said container and provided with a pointed end, and means to maintain engagement between said worker arm and said roller for tilting said container completely as soon as the pointed end of the worker arm passes from one side of the roller to the other side during the movement of the diaphragm.

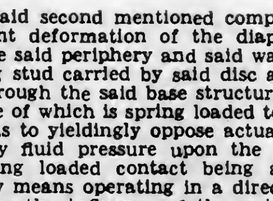
**2,644,867**
**FLUID PRESSURE OPERATED SWITCH**
William Harry Ruffle, Hove, England, assignor to Speed Development Company Limited, Hove, England, a British company
Application July 13, 1951, Serial No. 236,513
In Great Britain April 18, 1951
10 Claims. (Cl. 200—83)



1. A fluid pressure operated electric switch comprising a base structure formed with a compartment sealed off on one side by a flexible diaphragm of a resilient non-hygroscopic sheet material distensible from its normal flat condition by fluid pressure as low as about 0.5 inch of water gauge, said compartment having communication with an inlet for the purpose of admitting fluid pressure to the said compartment so as to deform the diaphragm for the purpose of actuating the switch, another compartment in said base structure separated and sealed off from the aforesaid compartment by the diaphragm and containing a loose disc the periphery of which is so closely related to the surrounding wall of said second mentioned compartment as to prevent deformation of the diaphragm between the said periphery and said wall, a switch actuating stud carried by said disc and slidable freely through the said base structure, and contacts, one of which is spring loaded towards said stud so as to yieldingly oppose actuation of the switch by fluid pressure upon the diaphragm, said spring loaded contact being additionally loaded by means operating in a direction which neutralises the influence of the weight of said stud and disc upon the spring loaded contact so that the switch operates at the same pressure when the switch occupies an inverted position such that the weight of the said stud member supplements the load due to the fluid pressure upon the diaphragm, the said spring loading of one of the contacts being effected by a leaf spring having a free end operative against the pressure transmitted to the switch via the diaphragm from the fluid pressure source and having an anchored end, a supporting member upon which said leaf spring for a portion of its length between its ends lies substantially flat, an abutment opposed to said supporting member and engaged permanently with said leaf spring, a guide member comprising a lever along one end of which said abutment is slidable, spring means loading the other end of said lever in the direction to press said abutment against said portion of the leaf spring which lies substantially flat against said supporting member, feed screw means to adjust said abutment translatively along said guide member relative to the leaf spring along the portion of the length of the leaf spring engaging said supporting member to vary the yield or effective load of said spring, and means to lock said feed screw means against rotation to maintain said abutment in selected positional relationship with said spring.

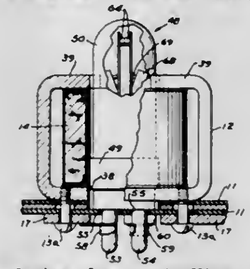


**2,644,868**
**SAFETY SWITCH**
Harry A. Locey, Houston, Tex., assignor to Lenora H. Allison, Houston, Tex.
Application July 31, 1950, Serial No. 176,789
1 Claim. (Cl. 200—86)



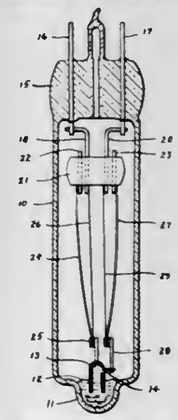
A safety switch comprising a housing, said housing including side walls, end walls, bottom and top walls with each of said side and end walls connected to said bottom and top wall to retain said bottom and top wall in fixed spaced relation forming said housing, said top wall inclined rearwardly of said housing toward said bottom wall, a plunger extending upwardly through said top wall, a support secured in said housing for said plunger, leaf springs secured to said support and engaged with said plunger to resiliently mount said plunger on said support, a contact aligned with said plunger and mounted in said housing, a circuit including electrical conduits extending into said housing and connected to said contact and plunger, said plunger normally retained in retracted position relative to said contact but movable to engage said contact to close the circuit between said plunger and contact and connected electrical conduits, wheels mounted on said bottom wall to support said housing, and a track on which said wheels roll, whereby the operator of said switch may roll the switch along the track as a reflex action due to shock.

**2,644,869**
**VOLTAGE REGULATOR AND CURRENT CONTROL DEVICE FOR AUTOMOTIVE VEHICLES**
Luther Earl Sevison, Toledo, Ohio
Application January 4, 1952, Serial No. 265,000
2 Claims. (Cl. 200—103)



1. In a device for controlling the battery charging current from the generator of a motor vehicle, the combination of a base, a solenoid winding on said base, opposed magnetic yoke members, each having opposed pole portions at opposite ends of said solenoid, means on said base and aligned axially with said solenoid winding and forming a tube receptacle, a tube comprising a magnetic switch removably engaged in said receptacle, said tube extending axially within said solenoid winding and being physically unconnected thereto, said tube having a pair of spring arms therein provided with opposed contacts which are arranged to make and break when said spring arms are flexed, each of said arms supporting an armature having opposed end portions positioned within the magnetic field of said opposed pole portions of said yoke members, and electrical connections on said base for connecting said winding and said tube into an electrical circuit.

**2,644,870**
**ELECTRIC SWITCH OF THE MERCURY TYPE**
Ira E. McCabe, Chicago, Ill.
Application April 14, 1951, Serial No. 221,052
8 Claims. (Cl. 200—113)

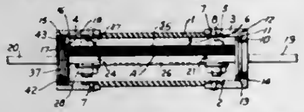


1. An electric switch comprising a sealed container, a pool of mercury within the container,

a capillary tube and movable contact means within the container, flexible means supporting the capillary tube with one end immersed in the mercury pool, said capillary tube presenting a contacting surface of mercury above the pool, other flexible means supporting the movable contact means for contact with said contacting surface of mercury provided by the capillary tube whereby to close an electric circuit, an expansible and contractible wire element for each of the flexible means, each wire element when cold and contracted tensioning its flexible means to position the capillary tube and said contact means to establish a closed circuit position so that the contact means is in engagement with the contacting surface of mercury, and said wire elements being included in the electric switch circuit for controlling movement of the capillary tube and movement of the contact means with respect to each other.

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2,644,871
**CARTRIDGE FUSE**
**Lewis Detch, Pittsburgh, Pa.**
**Application October 2, 1951, Serial No. 249,297**
**4 Claims. (Cl. 200—131)**



1. A renewable cartridge fuse, comprising, in combination, a tubular casing of insulating material, hollow metallic ferrules, one permanently affixed on each end of the casing, one ferrule formed at its outer end with portions having three internal diameters forming two internal shoulders one of which is innermost, the other ferrule formed with portions of two internal diameters, the portion nearest the outer end of the ferrule having the larger diameter and formed with an internal screw thread, the thread stopping short of the smaller internal diameter portion, the material of the ferrule being removed to the depth of the screw-thread between the ending of the thread and the beginning of the portion of smaller internal diameter thereby forming a groove and a shoulder, a fuse strip carrier and knife blade assembly positioned partly within and partly without the tubular casing, including a spacer bar of insulating material, two metallic knife blades, one at each end of the spacer bar, each knife blade formed of two rectangular portions, one narrower than the other forming a tang and a shoulder, one tang contacting one end of the spacer bar and the other tang contacting the opposite end of the spacer bar, a fuse strip extending between the tangs and parallel to the spacer bar, means for connecting the spacer bar, fuse strip, and tangs, a disc formed with a through slot adapted to receive a tang positioned on one knife blade between the end of the spacer bar and the shoulder of the knife blade, distorted metal of the tang abutting one side of the disc for holding it in place against the shoulder, said disc formed with three diameters, the smallest, substantially the same as the smallest internal diameter of the said one ferrule, one diameter substantially that of one of the other two internal diameters of the same said one ferrule and one substantially that of the other two internal diameters of the said one ferrule, a second disc on the tang of the other knife blade, said second disc abutting the shoulder thereof, said second disc formed with an external screw thread fitting the screw thread in the said other ferrule and being of a thickness such that when the outer end is flush with the outer end of the internally screw-threaded ferrule the inner end terminates short of the internal shoulder of the screw-threaded ferrule, said second disc formed with a circular depression in the face adjacent the spacer bar, a third disc positioned in and substantially filling said depression, both the second named disc and the third named disc formed with through slots, in line one with the other, said slots receiving the tang of the knife blade, distorted metal of the tang abutting the third named disc holding it in place, said second named disc formed with partial slits transverse thereof, said slits opening in the edge of the disc bearing the thread and vent holes, one extending from the outer face of the second named disc to each of the slits, the distance between the innermost shoulder on the said one ferrule and the shoulder at the groove on the said other ferrule, being less than the distance between the inner face of the second named disc and the outer face of the largest diameter portion of the first named disc.

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2,644,872
**RENEWABLE FUSE**
**Gordon F. Laing, Delavan, Wis., assignor to Economy Fuse and Manufacturing Co., Chicago, Ill., a corporation of Illinois**
**Application March 22, 1951, Serial No. 217,001**
**6 Claims. (Cl. 200—132)**



1. A renewable fuse comprising an inner cartridge having deformable terminal links extending from its opposite ends, a tubular casing enclosing said cartridge including an end closure for said casing including a pair of clamping members, the innermost clamping member being fixed in non-rotatable relation with respect to said casing and having an aperture through which one of said terminal links extends and turns down against said innermost member, the outermost member being disposed against said innermost member so as to confine the turned-down portion of the terminal link between them, and means for clamping the outermost member to the innermost member in non-rotating relation thereto so as to compress and grip the confined portion of said terminal link therebetween, said outermost member comprising an electric terminal end plate for the assembled fuse.

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2,644,873
**THERMOSTATIC AND CIRCUIT BREAKER DEVICE**
**Kenneth E. Vroom, West Englewood, and Elbert De F. Tidd, Clinton, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York**
**Application March 7, 1950, Serial No. 148,196**
**16 Claims. (Cl. 200—138)**



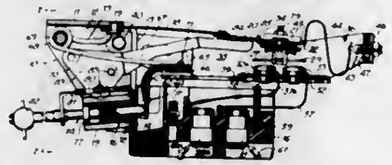
1. In combination, a snap switch assembly comprising a snap spring disc having at least one dished configuration of stable equilibrium and



adapted to snap into a reversed configuration, a dished spring disc, means supporting said discs at their respective centers in coaxial relationship with their respective rim portions free to partake of spring movement, said supporting means being adapted to hold said discs with their rim portions in substantially circumferential engagement and with the rim portion of the spring disc biasing the rim portion of the snap disc in the direction of the snap movement out of said configuration of stable equilibrium whereby the rim portions of the snap spring disc and the spring disc maintain contact during preliminary creeping movement of the snap spring disc prior to snapping, separable electrical contact means adapted to be separated in response to snap movement of the rim portion of the snap spring disc and to maintain contact during preliminary creeping movement of the snap spring disc prior to snapping, and means for initiating snapping action of said snap disc.

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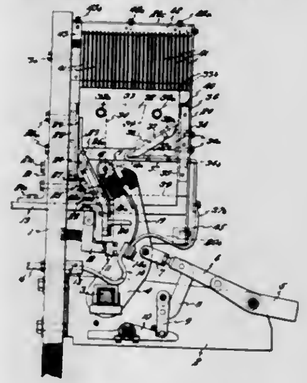
2,644,874
**HIGH-TEMPERATURE BIMETAL THERMOSTAT**
**Nicholas Miller, Berwyn, Ill., assignor to General Electric Company, a corporation of New York**
**Application March 3, 1951, Serial No. 213,740**
**11 Claims. (Cl. 200—138)**



1. A thermostat of the bimetal type responsive to the temperature of a body heated by electrically controllable heating means, comprising a frame having a heat-conducting wall adapted to be secured to said body in heat exchange relation therewith, a heat-responsive element comprising a first bimetal strip fixed at one end to and extending from said wall, and a second bimetal strip fixed to and extending from the free end of said first strip, said strips flexing in opposition in response to temperature change, said second strip being stiffened at its outer portion to limit flexure to a relatively small portion thereof adjacent said first strip, contact means insulatedly carried by said second strip adjacent the free end thereof, a yoke member pivotally affixed to the frame and extending therefrom to enclose said heat-responsive element, the planes of movement of said yoke member and said heat-responsive element being co-incident, snap spring means interposed between said yoke and the free end of said second strip, contact means carried by said yoke member for cooperation with said first contact means, a bell crank fixed to said yoke member and having a leg extending angularly therefrom in the plane of rotation of said member, a female-threaded sleeve fixed to said frame and extending angularly with respect to said bell crank leg, a male-threaded yoke-adjustment spindle associated with said sleeve for engagement with said bell crank leg, there being substantial radial clearance between the respective threads of said sleeve and said spindle in axial alignment within said sleeve, spring means interposed between said frame and said yoke member to enforce rotation of the latter to bring the bell crank leg into engagement with said spindle, whereby upon rotation of said spindle in one or another direction the yoke member will rotate relative to said heat-responsive element to adjust the relative position of the respective contact means, a stop member fixed to said frame and engageable with the second bimetal strip to interrupt movement of said bimetal element toward said yoke member contacts to maintain an open circuit position at a predetermined low temperature of said heat-responsive element, a terminal block fixed to said frame, electric terminal means slidably disposed in said block and corresponding in number with said yoke member contact means, flexible conductors interconnecting said contact means and said terminal means, insulator means floatingly carried by said terminal block supporting each said flexible conductor to maintain the same in spaced relationship one with the other throughout the full range of yoke member adjustment, and means accessible remote from the frame member to effect rotation of said adjustment spindle.

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2,644,875
**AIR CIRCUIT BREAKER**
**Archie R. Miller, Easton, Pa., assignor, by mesne assignments, to Roller-Smith Corporation, Bethlehem, Pa., a corporation of New Jersey**
**Application July 1, 1948, Serial No. 36,309**
**2 Claims. (Cl. 200—147)**



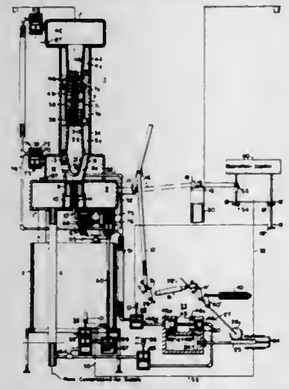
1. An air circuit breaker comprising a movable element for opening and closing the breaker, a fixed arcing contact part and a movable arcing contact part of non-magnetic metal, a backing of magnetic material on said movable arcing part whereby a magnetic field is induced for directing the movement of the arc, said backing of magnetic material being pivotally mounted on said movable element, and a spring for biasing said backing of magnetic material and said movable arcing contact part towards said fixed arcing contact part for maintaining contact between said parts during a portion of the opening movement of the breaker.

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2,644,876
**HIGH-SPEED COMPRESSED-AIR CIRCUIT BREAKER**
**Benjamin P. Baker, Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 19, 1950, Serial No. 180,447**
**20 Claims. (Cl. 200—148)**

1. A compressed-air circuit-breaker assembly comprising: an air-blast interrupter-assembly; insulating supporting-means for supporting said interrupter-assembly at a sufficient insulating-

distance from a substantially ground-potential surface to withstand a substantial elevated line-potential; said interrupter-assembly comprising a main interrupter-gap device having normally closed contacts which are separable in response to an air-blast, a compressed-air tank also supported by said insulating supporting means at an elevated potential, a short blast-tube for at times supplying said interrupter-gap device with an air-blast from said tank, and a normally closed blast-valve for controlling the communication between said blast-tube and the tank, an isolating-switch; means for electrically connecting the isolating-switch in series-circuit relation to the main interrupter-gap device; a drive-mechanism disposed at substantially ground-potential and having insulating drive-means

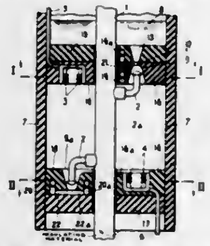


connected to said isolating-switch for opening and closing the same; a pressure-responsive control-mechanism disposed at substantially ground-potential for controlling the initiation of the actuation of said drive-mechanism in the switch-opening direction; and communicating-pipe means for connecting said control-mechanism in responsive relation to the air-pressure within said blast-tube, said communicating-pipe means including an insulating pipe-length at least approximately as long as the insulating-distance of the insulating supporting-means for interrupter-assembly, said pipe-length being sufficient to provide a substantial time-delay between the blast-off of the air-blast interrupter-assembly and the application of an air-pressure responsive thereto to said control-mechanism.

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**2,644,877**
**ROTARY CIRCUIT BREAKER**
**André Guillaume, La Plaine Saint-Denis, Seine, France, assignor to Societe Anonyme dite: Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a corporation of France**
**Application June 1, 1951, Serial No. 229,359**
**In France June 9, 1950**
**5 Claims. (Cl. 200—150)**

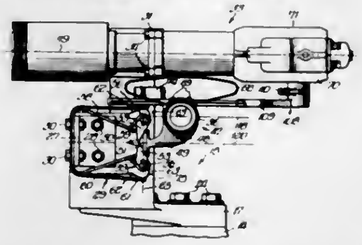
1. In a rotative high-power circuit breaker of the low oil-volume type comprising an interrupting unit including an insulating housing having spaced upper and lower end walls defining upper and lower circular arc-guiding channels with outlet openings from the upper channel, and also comprising a fixed contact in each of said channels and a rotatable contact engageable with each of said fixed contacts, at least one circularly-arranged series of downwardly opened gas-filled damping chambers in each of said upper and lower walls, said circular series being arranged in the immediate vicinity of the corresponding circular channel, and each said channel having a trapezoidal cross-section with smooth



angles, the axis of symmetry of this cross-section being parallel to the axis of rotation of said circuit breaker.

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**2,644,878**
**SWITCH CONSTRUCTION**
**Sigurd I. Lindell, Chicago, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware**
**Original application July 30, 1948, Serial No. 41,597. Divided and this application May 27, 1950, Serial No. 164,702**
**7 Claims. (Cl. 200—170)**



1. In a switch, in combination, a pivoted switch blade, a pair of round nosed contact fingers arranged to be engaged directly by said switch blade for completing a circuit therethrough, means rockably mounting said contact fingers on opposite sides of the plane of movement of said switch blade about parallel axes in a plane at right angles to said plane of movement of said switch blade so that the nose portions of said contact fingers engage opposite sides of said switch blade with a rocking and wiping action, and spring means biasing said contact fingers toward each other, said switch blade in moving to and from the switch closed position rocking said contact fingers from one side of said plane containing their axes to the other.

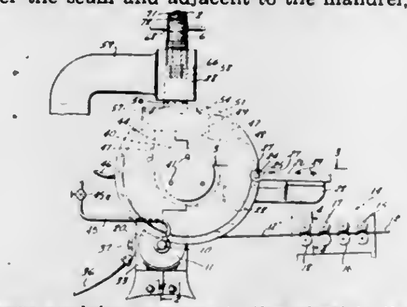
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**2,644,879**
**SPIRALLY WOUND CORRUGATED WELDED TUBING**
**Daniel Paul Schwester, East Orange, N. J., assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Massachusetts**
**Application August 13, 1951, Serial No. 241,569**
**13 Claims. (Cl. 219—6)**

1. Apparatus for making helical seam tubing, including a mandrel having a continuous and smooth outside surface for supporting the convolutions of the tubing, mechanism that rotates the mandrel about its longitudinal axis, guide means through which a metal strip is supplied to the mandrel in a direction to wrap in a helix



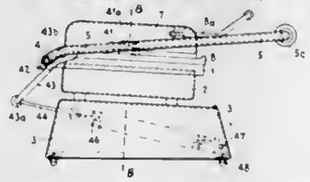
around the mandrel and in direct contact with the mandrel and with adjacent edges of successive convolutions overlapping one another to form a seam, said mandrel comprising one electrode of a resistance welding circuit, a wheel comprising the other electrode of the welding circuit, a bearing by which the wheel is carried, a support for the bearing in position to locate the wheel over the seam and adjacent to the mandrel, and



means applying pressure to the wheel in the direction of the mandrel to clamp the seam edges together under heavy pressure, means that strip the tubing from the mandrel progressively as the tubing is formed, and cooling means comprising a liquid-supply conduit with an outlet in position to flood the welding region with cooling liquid while the wheel is operating to weld the seam.

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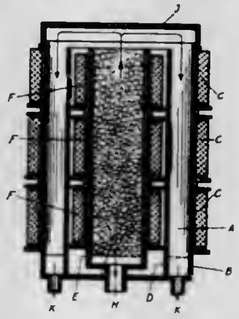
**2,644,880**
**ELECTRIC GRILL**
**Aldo Valentini, Lausanne, and Traugott Oertli, Zurich, Switzerland, assignors to Techag A. G., Kusnacht-Zurich, Switzerland**
**Application May 13, 1950, Serial No. 161,752**
**In Switzerland May 15, 1949**
**5 Claims. (Cl. 219—19)**



5. A grill apparatus comprising a base, spring means anchored on said base, two heating plates each having a forward and a rearward end and mounted on said base, respective electric heating means connected to said plates and adapted to emit infra-red rays through said plates, first lever means extending from the rearward end of one heating plate to and beyond said forward end of both said heating plates and including, respectively, first and second pivot means, said first pivot means being positioned adjacent the rearward end of said one heating plate and above said base, said second pivot means being positioned on said first lever means between said forward end of said other heating plate and said first pivot means, whereby said other heating plate may be swung first about said first pivot means and then about said second pivot means relative to said one heating plate and said base, and second lever means attached to said spring means and extending from the latter beyond said base, said second lever means extending below and in contact with said first lever means, at least one of said heating plates being provided with a plurality of juxtapositioned grooves saw-tooth-shaped in cross-section for reflecting infra-red rays from said electric heating means and said one heating plate toward the other heating plate.

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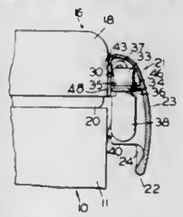
**2,644,881**
**INDUCTIVELY HEATED ELECTRICAL CONTACT FURNACE WITH PREHEATER**
**Carl Christian Schörg, Frankfurt am Main Hochst, Germany**
**Application December 15, 1949, Serial No. 133,205**
**In Germany December 20, 1948**
**1 Claim. (Cl. 219—47)**



In an electrical heating furnace for carrying out high temperature exothermic and endothermic reactions, a central pre-heating chamber, a central conduit connected to said pre-heating chamber for conducting gases thereto, a plurality of inductor coils adapted to be connected, respectively, to the various phases of a polyphase power system closely surrounding said pre-heating chamber in aligned relationship, an annular reaction chamber surrounding said pre-heating chamber closely positioned with respect to the coils therearound, a cover over the central pre-heating chamber and the annular reaction chamber for directing the heated gases from the former reversely through the latter, and a plurality of inductor coils adapted to be connected, respectively, to the various phases of a polyphase power system closely surrounding said annular reaction chamber in aligned relationship.

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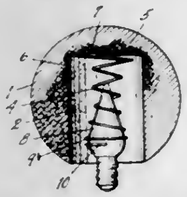
**2,644,882**
**ILLUMINATED HANDLE FOR REFRIGERATED CABINET DOORS**
**John J. Voda, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey**
**Application October 28, 1950, Serial No. 192,747**
**2 Claims. (Cl. 240—4)**



1. In combination with a door pivotally secured to a refrigerated cabinet, a handle having a curved front wall and a first end wall and a second end wall which extend substantially perpendicular to said front wall, strengthening ribs formed on the rear side of said front portion

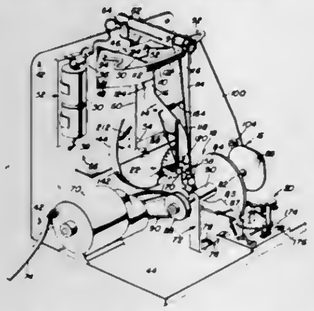
between said end walls, a mounting rib extending between said first end wall and one of said strengthening ribs, said mounting rib being provided with a slot, an electric socket having a groove therein which is received by said slot, an elongated lamp secured in said socket and positioned between said first end wall and said strengthening ribs, and a mounting plate fastened to said front portion between said strengthening ribs, said handle being secured by said mounting plate to the front edge of said door with said lamp and front portion extending past the inner surface of said door, said handle acting as a shield and reflector whereby the rays of light from the lamp are directed into the interior of the cabinet.

2,644,883
**SPRING-HELD DECORATIVE SHADE**
Leonard W. Schoenherr, Ludington, Mich.
Application April 28, 1950, Serial No. 158,871
4 Claims. (Cl. 240—10)



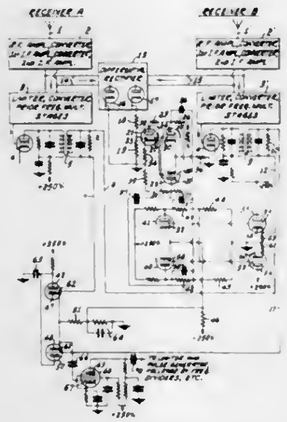
2. An illuminating device comprising a translucent shade member having a central cylindrical lamp bulb chamber open at one side of the shade member and extending inwardly substantially beyond the center thereof, and a helically coiled springable wire lamp bulb holder disposed within said chamber and terminating at its inner end in an integral springable shade member engaging coil disposed in a plane substantially at right angles to the axis of the holder, the other coils of the holder being of substantially less diameter than the shade engaging coil and disposed axially centrally thereof and springably supported thereby in spaced relation to the wall of the chamber, said holder having an inwardly tapering conically coiled lamp bulb embracing portion at its outer end.

2,644,884
**CAM OPERATED TARGET IMAGE HAVING AN IRREGULAR MOVEMENT**
Irvin J. Sullivan, Culdesac, Idaho
Application June 26, 1950, Serial No. 170,455
4 Claims. (Cl. 240—48)



3. A target spot projector comprising a frame, a support bar pivotally mounted on said frame, an actuating bar secured transversely of said support bar, cam means imparting movement to said actuating bar to oscillate said support bar about its pivots, a tapering surface interposed between said first-mentioned cam and said actuating bar, means adjusting the position of said tapering surface between each oscillation, a light projector pivotally mounted on said support bar, cam means oscillating said light projector about its pivot point on said support.

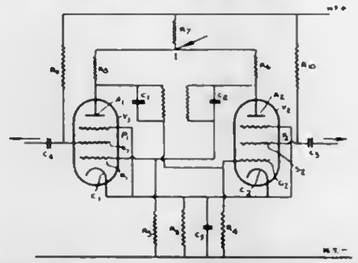
2,644,885
**DIVERSITY GATING SYSTEM**
John B. Atwood, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 27, 1951, Serial No. 212,899
14 Claims. (Cl. 250—20)



1. In signalling apparatus, in combination, two signal receivers, means for comparing the relative strengths of the two signals received and for producing a potential the polarity of which is positive or negative with respect to a reference level depending on which received signal is stronger, an electronic valve for each receiver excited by the signal received thereby, a trigger circuit, having two conditions of electrical stability and comprising a pair of intercoupled electrode structures, so arranged that the flow of current in one structure causes a cessation of current in the other structure, and vice versa, means for applying said potential to said trigger circuit to trip the same from one condition to the other, and vice versa, in response to a change in the polarity of said potential, a pair of electrode structures each having an input circuit and each having a cathode follower output circuit, means connecting the input circuit of each of said last-named structures to a separate corresponding one of the two structures of said trigger circuit so that current flow in each of the cathode follower structures is controlled by current flow in its corresponding trigger structure, means coupling the two cathode follower output circuits respectively to corresponding ones of the two valves for making that one thereof conductive which is excited by the stronger signal, and a common output circuit coupled to said two valves.



2,644,886
**ELECTRONIC COUNTING CIRCUIT**
Ernest Oliver Holland, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company
Application August 30, 1949, Serial No. 113,125
In Great Britain August 31, 1948
1 Claim. (Cl. 250—27)



A binary electronic counting circuit comprising a pair of pentode valves arranged in a trigger-pair circuit, means comprising a resistor connecting the anode of each valve to a high tension positive supply, means comprising a resistance shunted by a capacity connecting each anode to the grid nearest to the cathode in the other valve, means connecting the suppressor grid in each valve to the cathode of that valve, means for applying the pulses to be counted to the anodes of both of the valves simultaneously and means for deriving the output pulses from the screen grid of one of the valves, said screen grid being connected to the high tension positive supply through a resistor.

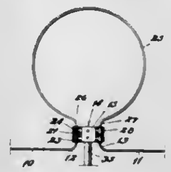
2,644,887
**SYNCHRONIZING GENERATOR**
Albert E. Wolfe, Jr., Compton, Calif., assignor, by mesne assignments, to Computer Research Corporation of California, a corporation of Delaware
Application December 18, 1950, Serial No. 201,375
16 Claims. (Cl. 250—27)



1. A synchronizing generator comprising a source of timing pulses, a cascade of counters connected to count pulses from said source, means for establishing potentials representing specific counts in said counters, means for combining said count potentials to form control potentials, a plurality of flip-flop circuits, means for applying said control potentials to said flip-flop circuits to change the state thereof, and output means connected to each of said flip-flop circuits, whereby as said counters are advanced, the flip-flop circuits generate signals on said output means in accordance with the timing of the control potentials applied thereto.

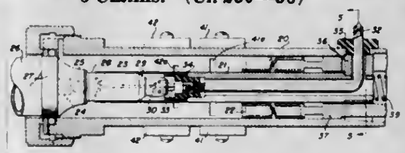
2,644,888
**HIGH-FREQUENCY ANTENNA**
John J. Root, New York, N. Y.
Application January 25, 1949, Serial No. 72,699
5 Claims. (Cl. 250—33.51)

5. An antenna comprising a pair of horizontal dipole arms having one end of each substantially adjacent the other, a loop connecting said dipole arm ends, and means to orient said loop independently of said dipole arms, said loop being



disposed in a vertical plane and being of a diameter so as to resonate at a higher frequency than said pair of dipole arms.

2,644,889
**MODE SUPPRESSOR FOR EXTERNAL CAVITY KLYSTRON OSCILLATORS**
Herbert Arnold Finke and Abraham Henry Sonnenschein, New York, N. Y., assignors to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y., a corporation of New York
Application February 14, 1950, Serial No. 144,188
6 Claims. (Cl. 250—36)



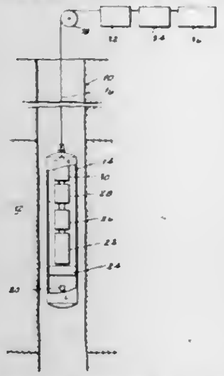
3. A variable frequency oscillation generator comprising, in combination, an electron tube provided with a pair of spaced electrodes forming an interaction gap, a co-axial resonator formed of an outer tubular conductor and an inner conductor co-axially arranged within said outer conductor, said conductors being connected at one end of said resonator to said gap electrodes, an annular piston mounted in the other end of said resonator for sliding movement axially thereof in the annular space between said conductors to vary the length of the cavity in said resonator, and a waveguide section coupled to the cavity of said resonator by a slot formed in the wall of said outer conductor at a point within the range of movement of said piston, said waveguide section having a cutoff frequency higher than the desired resonant mode but lower than higher frequency undesired modes.

2,644,890
**AMUSEMENT DEVICE**
Mathilda Ramona Hollihan, Chester, Pa.
Application April 7, 1949, Serial No. 86,040
20 Claims. (Cl. 250—71)



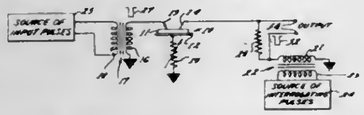
1. A fascinating device intended for ornamental or amusement purposes comprising a translucent to transparent hollow envelope enclosing a hollow chamber, a phosphorescent material enclosed therein and only partially filling the hollow chamber, and means comprising a transparent coating on the material for protecting the phosphorescent material against physical disintegration.

2,644,891
## METHOD OF NEUTRON BOREHOLE LOGGING
**Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application March 28, 1950, Serial No. 152,489**
**6 Claims. (Cl. 250—83.6)**



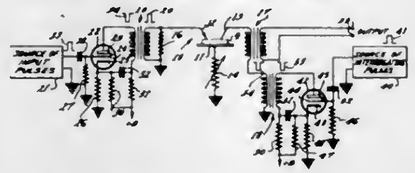
1. The method of logging a bore hole which comprises passing through the hole a source of radiation from which neutrons and gamma rays are emitted, some of the neutrons penetrating the formations surrounding the hole whereby due to nuclear collision with the atoms of the formations gamma rays are induced, some of the induced gamma rays entering the hole, while simultaneously therewith gamma rays from the source are scattered within the formations and returned to the hole, impressing an electrical potential on a single ionizable medium of relatively low density and exposing said medium to said induced gamma rays and to said scattered gamma rays intercepting the hole whereby electrical pulses are created in said ionizable medium, the size of the pulses depending upon the energy of the radiation intercepted, and recording only those pulses created in said medium by the induced gamma rays, and which are larger than the pulses also created in said medium due to scattered gamma rays.

2,644,892
## TRANSISTOR PULSE MEMORY CIRCUITS
**John B. Gehman, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 2, 1952, Serial No. 291,176**
**15 Claims. (Cl. 307—88)**




1. A pulse memory circuit comprising a current multiplication transistor including a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, a first impedance element effectively coupling said emitter and collector electrodes, an input inductor effectively connected between said emitter and base electrodes, and providing a time constant network together with the resistance which appears looking into said emitter, an output second impedance element effectively connected between said collector and base electrodes, means for applying an input pulse to said inductor having a predetermined polarity,, whereuon a voltage of opposite polarity and smaller amplitude is developed across said inductor after the occurrence of the trailing edge of said input pulse, and means for applying interrogating pulses between said collector and base electrodes of a polarity to bias said collector and base electrodes in the reverse direction, whereby an output pulse of predetermined amplitude is developed across said second impedance element in response to an interrogating pulse occurring substantially within the duration of said voltage of opposite polarity and an output pulse of a different amplitude is developed across said second impedance element in response to an interrogating pulse occurring at a time outside of the duration of said voltage of opposite polarity.

2,644,893
## SEMICONDUCTOR PULSE MEMORY CIRCUITS
**John B. Gehman, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 2, 1952, Serial No. 291,177**
**11 Claims. (Cl. 307—88)**



1. A pulse memory circuit comprising a current multiplication transistor including a semiconducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, an impedance element effectively coupling said emitter and collector electrodes, means for impressing input pulses between said emitter and base electrodes having a polarity to bias said emitter and base electrodes momentarily in the forward direction, means for impressing interrogating pulses between said collector and base electrodes having a polarity to bias said collector and base electrodes momentarily in the reverse direction, and a load impedance element connected in circuit with said collector electrode, whereby an output pulse of predetermined amplitude is developed across said load impedance element in response to an interrogating pulse which occurs within a predetermined interval of time after the occurrence of one of said input pulses.

2,644,894
## MONOSTABLE TRANSISTOR CIRCUITS
**Arthur W. Lo and Raymond P. Moore, Jr., Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application July 1, 1952, Serial No. 296,585**
**7 Claims. (Cl. 307—88)**

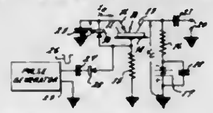


7. A monostable triggered circuit comprising a current-multiplication transistor including a semi-conducting body, a base electrode, an emitterelectrode and a collector electrode in contact



with said body, an external network interconnecting said electrodes with a common junction point and including a resistor connected between said base electrode and said junction point, an output impedance element connected between said collector electrode and said junction point, a voltage source serially connected with said resistor and said impedance element for applying a bias voltage in the reverse direction between said collector and base electrodes, a capacitor, a source of trigger pulses connected serially with said capacitor between said emitter electrode and said junction point, said circuit having a stable state of low current conduction and an instable state of high current conduction, the external emitter circuit being substantially open-circuited during said stable state corresponding to substantially zero emitter current, whereby the application of a trigger pulse carries said triggered circuit temporarily into said instable state for a period of time determined by the capacitance of said capacitor to develop an output pulse across said impedance element, and a rectifier connected directly between said emitter and base electrodes and poled to be conducting only when a voltage in the reverse direction exists between said emitter and base electrodes.

2,644,895
## MONOSTABLE TRANSISTOR TRIGGERED CIRCUITS
**Arthur W. Lo, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application July 1, 1952, Serial No. 296,586**
**19 Claims. (Cl. 307—88)**



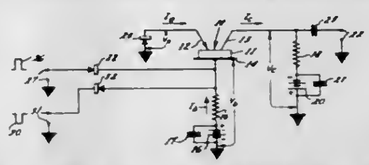
17. A monostable triggered circuit comprising a current-multiplication transistor including a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, an external network interconnecting said electrodes with a common junction point and including a first resistor connected between said base electrode and said junction point, an output impedance element connected between said collector electrode and said junction point, a source of voltage connected in series with said first resistor between said base electrode and said junction point and poled to apply a voltage in the reverse direction between said collector and base electrodes, a capacitor connected between said emitter electrode and said junction point, said circuit having a stable state of low current conduction and an instable state of high current conduction, a source of trigger pulses coupled across said first resistor, and a second resistor connected across said capacitor for biasing said emitter electrode in the reverse direction with respect to said base electrode during said stable state of conduction.

2,644,896
## TRANSISTOR BISTABLE CIRCUIT
**Arthur W. Lo, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application July 29, 1952, Serial No. 301,557**
**9 Claims. (Cl. 307—88)**

1. A bistable triggered circuit comprising a current-multiplication transistor including a

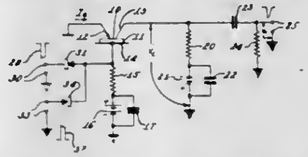


semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, an external circuit network interconnecting said electrodes with a common junction joint and including a first impedance element connected between said base electrode and said junction point, an output second impedance element connected between said collector electrode and said junction point, means serially connected with said first and second impedance elements for applying a bias voltage in the reverse direction between said collector and base electrodes, a non-linear re-



sistance device connected between said emitter electrode and said junction point, and means connected between said emitter and collector electrodes for applying a bias voltage in the forward direction between said emitter and base electrodes, said circuit thereby having a stable state of low current conduction and another stable state of high current conduction, and said device being connected so as to have a relatively high resistance while said circuit is in said state of low current conduction and to have a relatively low resistance while said circuit is in said state of high current conduction.

2,644,897
## TRANSISTOR RING COUNTER
**Arthur W. Lo, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application August 9, 1952, Serial No. 303,513**
**19 Claims. (Cl. 307—88)**



14. A ring counter comprising a plurality of counter stages connected in a closed loop and an input stage, each of said counter stages comprising a bistable transistor circuit having a low and a high stable state of current conduction and including a semi-conducting body, a base electrode, an emitter electrode, and a collector electrode in contact with said body, a collector impedance element, a source of operating potential and a base impedance element connected in series arrangement in the order named between each collector electrode and its associated base electrode for applying a bias in the reverse direction between each collector electrode and said associated base electrode, each emitter electrode being directly conductively connected to an intermediate point of said source of operating potential, unidirectional conducting elements connected between each base electrode and said input stage for applying trigger pulses simultaneously between each base electrode and its associated emitter electrode for triggering each of said counter stages into its stable low current conduction state, means connected between each

collector electrode and the base electrode of the succeeding stage whereby a transfer pulse is applied to the succeeding stage when the stage connected thereto is triggered from a stable low current conduction state thereby placing said succeeding stage in a stable state of high current conduction, an output circuit coupled across the collector impedance of one of said counter stages, erase means connected to said unidirectional conducting elements for simultaneously triggering said counter stages to their stable low current conduction state, and reset means connected in the collector electrode circuit of another of said stages for triggering said another stage into its stable high current conduction state, whereby said ring counter is prepared for the receipt of and the accurate count of pulses from an input source.

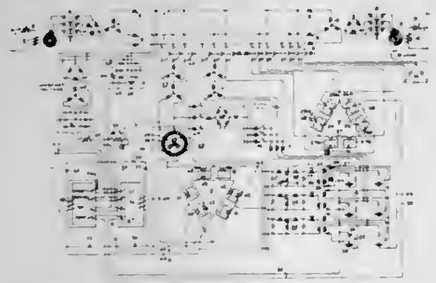
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**2,644,898**

## STABILIZER FOR ALTERNATING CURRENT POWER TRANSMISSION SYSTEMS

**Ernst F. W. Alexanderson, Schenectady, N. Y., and Robert W. Kuenning, Berkeley, Calif., assignors to General Electric Company, a corporation of New York**

**Application February 28, 1951, Serial No. 213,272**
**7 Claims. (Cl. 307—102)**



1. In a system of distribution having remotely situated alternating current dynamoelectric machines with an electrically long transmission line interconnecting the same, saturable impedance means including a pair of saturable cores and a main winding wound on each core for connection in parallel relation to the transmission line, a control circuit for regulating the impedance of said saturable impedance means, said control circuit having a control winding disposed on each of said cores and arranged so that one of said control windings opposes the magnetizing action of its associated main winding and so that the other of said control windings aids the magnetizing action of its associated main winding during each half cycle of current in said main windings, and means responsive to a predetermined electrical condition of the system for controlling the energization of said control circuit in a manner to control the amount of reactive current drawn by said saturable impedance means so as to maintain a synchronous relation between said machines.

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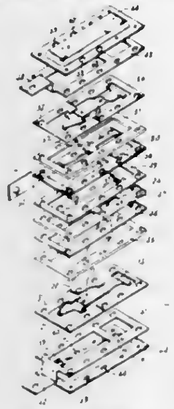
**2,644,899**

## FLASHER

**Robert S. Perry, Westfield, N. J., assignor, by mesne assignments, to Perry Flasher Syndicate, Westfield, N. J.**

**Application July 29, 1949, Serial No. 107,497**
**16 Claims. (Cl. 307—132)**

14. A unitary organization constituting a flasher for periodically interrupting a flasher circuit combined with a relay responsive to current flowing through the flasher circuit for controlling a monitor circuit showing operation of the flasher circuit, said flasher and relay comprising a stack of superimposed plates having substantially continuous similar peripheries forming a housing, one of the plates including a pivotally-mounted switch arm biased to closed position to complete a low resistance flasher circuit through the flash-



er, a hot-wire continuously in the flasher circuit for moving the switch arm to interrupt the low resistance flasher circuit, and another of the plates including a relay switch arm biased to closed position to energize the monitor circuit, and a second hot-wire in series with the flasher circuit and responsive to drop in current through the flasher circuit to a predetermined minimum to move the relay switch arm against its bias and thereby interrupt the monitor circuit.

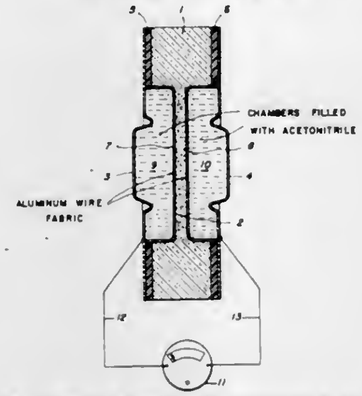
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**2,644,900**

## ELECTROKINETIC DEVICE

**Edward V. Hardway, Jr., Richmond, Va.**

**Application November 27, 1951, Serial No. 258,490**
**4 Claims. (Cl. 310—2)**




1. An electrokinetic cell comprising an enclosure, a porous plug disposed within said enclosure to divide the enclosure into two chambers, said chambers being filled with an electrokinetic liquid consisting predominantly of acetronitrile, and electrodes arranged one in contact with the liquid in each chamber, the portions of said electrodes in contact with said liquid being of a metal inert to acetonitrile.

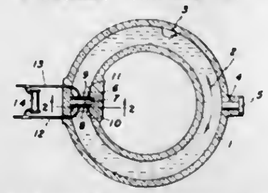


**2,644,901**

## ELECTROKINETIC ANGULAR ACCELEROMETER

**Edward V. Hardway, Jr., Richmond, Va.**

**Application November 27, 1951, Serial No. 258,491**
**9 Claims. (Cl. 310—2)**



1. In an angular accelerometer, the combination of a sealed enclosure providing a closed liquid path, a porous plug disposed transversely within said enclosure and forming a porous dam across the interior thereof, said enclosure being filled with an electrokinetic liquid, and electrodes disposed within said enclosure one on each side of said plug and adjacent thereto.

9. In an angular accelerometer, the combination of a sealed enclosure providing an endless liquid path, a porous plug disposed transversely within said enclosure to provide a porous dam across said path, a pair of electrodes disposed within said enclosure and arranged one on each side of said plug and adjacent thereto, said enclosure being entirely filled with an unbroken body of electrokinetic liquid, and yieldable pressure relief means carried by said enclosure and in contact with said liquid to compensate for the difference in thermal expansion of said liquid and said enclosure.

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**2,644,902**

## ELECTROKINETIC DEVICE AND ELECTRODE ARRANGEMENT THEREFOR

**Edward V. Hardway, Jr., Richmond, Va.**

**Application November 27, 1951, Serial No. 258,492**
**14 Claims. (Cl. 310—2)**



12. In an electrokinetic cell, the combination of a generally tubular enclosure, a self-supporting porous plug mounted transversely within said enclosure and sealed about its periphery to said enclosure to divide the interior thereof into two chambers, said chambers being filled with an electrokinetic liquid, two flexible electrically conductive diaphragms disposed one across each end of said enclosure to seal said chambers, and a pair of electrodes disposed one in each of said chambers, said electrodes each comprising a permeable electrically conductive element and each having one face disposed in intimate face-to-face contact with said porous plug, each of said electrodes being electrically connected to the adjacent one of said diaphragms.

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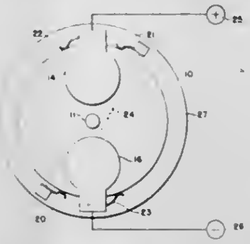
**2,644,903**

## SELF-STARTING ELECTROSTATIC GENERATOR

**Norman H. Lehrer, Bloomfield, N. J., assignor to Chatham Electronics Corporation, Newark, N. J.**

**Application September 25, 1952, Serial No. 311,360**
**5 Claims. (Cl. 310—6)**

1. A self-starting electrostatic influence generator comprising; a rotor made of insulating material; a plurality of conducting sectors imbedded in the rotor material, each having a connection to the surface of said rotor; a pair of conducting stator plates mounted adjacent to the rotor, one of said plates mounted at a greater distance from the rotor than the other; a diametral conductor connecting brushes on opposite sides of the rotor,



said brushes mounted to make contact with said sector connections as the sectors pass through the electric field of the stator plates; a pair of collector brushes, each connected to a stator plate and mounted to make contact with said sector connections as the sectors pass into the electric field of the stator plates; and a brush mounted so as to rub on the rotor insulating material.

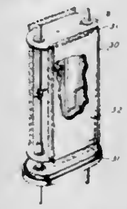
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**2,644,904**

## CRYSTAL UNIT

**Joseph F. Barry, Summit, and David M. Ruggles, Mount Tabor, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application July 28, 1950, Serial No. 176,452**
**4 Claims. (Cl. 310—8.2)**



1. A crystal unit comprising a base, a crystal, means mounting said crystal from said base, a cover arranged to fit over said crystal and sealed to said base, and means for absorbing supersonic waves within said cover comprising a supporting cradle carried by said mounting means and disposed about said crystal and a plurality of sheets of soft fibrous crepe paper disposed about said crystal and mounted by said supporting cradle.

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**2,644,905**

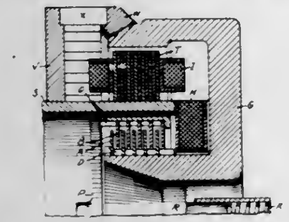
## DEVICE HAVING THE DUAL FUNCTION OF ELECTROMAGNETIC CLUTCH AND ALTERNATOR

**Antoine Brueder, Paris, France, assignor to Societe Anonyme Andre Citroen, Paris, France**

**Application December 4, 1951, Serial No. 259,840**
**In France December 4, 1950**
**2 Claims. (Cl. 310—78)**

1. Device having the dual function of an electromagnetic clutch and an alternator, comprising an axially slidable clutch plate, a coaxial fixed plate, a magnetic flywheel fast with said fixed plate, formed with a radial U-shaped cavity with the arms of the U parallel with the axis of said flywheel, peripheral notches in the outer arm of

said U, a fixed coaxial cylindrical sleeve member, an energizing coil carried by said sleeve member adjacent to the bottom of said U-shaped cavity of said flywheel, an annular rim fast with said fixed plate, a first set of clutch disks mounted for sliding axial movement on the inner side of said annular rim in said flywheel cavity and registering with said energizing coil, another set of clutch disks alternating with the clutch disks of said



first set and mounted for sliding axial movement on the outer periphery of the inner arm of said U, and soft-iron stampings with a cooperative winding positioned in the gap between said fixed sleeve and the inner periphery of the outer arm of said U, both said stampings and winding being fixed on said sleeve and registering with said peripheral notches so as to form a homopolar alternator.

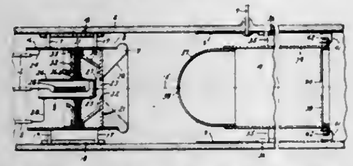
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**2,644,906**

**ELECTRON BEAM DISCHARGE DEVICE**

**Ralph J. Bondley, Scotia, N. Y., assignor to General Electric Company, a corporation of New York**

**Application August 11, 1951, Serial No. 241,433**
**5 Claims. (Cl. 313—82)**



1. An electron beam discharge device comprising a cathode, a control electrode, and an anode mutually insulated and spaced in the order named along a common axis; said cathode including an electron emissive surface; said control electrode including a body portion having a flaring passageway therethrough increasing in cross-sectional area toward said anode, the smaller entrance to said passageway being adjacent and in registry with said surface, and a plurality of wires forming a grid across said entrance; said anode including a substantially closed shell having a limiting entrance aperture in the end thereof opposite said control electrode and the cross-sectional area of said end gradually decreasing toward said control electrode.

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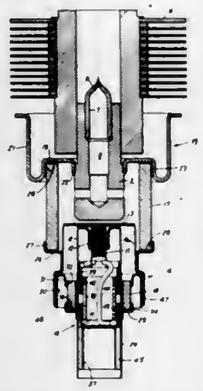
**2,644,907**

**ELECTRON TUBE**

**Donald F. Drieschman, Los Altos, and Emil F. Wesenberg, San Bruno, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California**

**Application May 7, 1951, Serial No. 224,952**
**8 Claims. (Cl. 313—249)**

1. An electron tube comprising an envelope, electrodes in the envelope including an anode and grid and cathode, coaxial metal terminals on the envelope for the electrodes, a ceramic section interposed between the grid and anode terminals,



and metallic bonds uniting the ceramic section to said terminals, the anode terminal having a re-entrant portion for receiving the ceramic section.

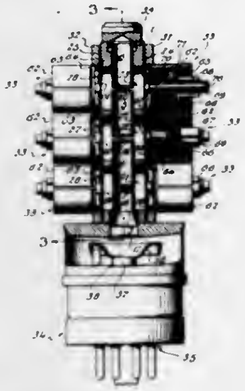
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**2,644,908**

**MICROWAVE FREQUENCY CAVITY RESONATOR STRUCTURE**

**Sigurd F. Varian, Stanford, Calif., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware**

**Application March 26, 1949, Serial No. 83,730**
**16 Claims. (Cl. 315—6)**



15. Microwave tube structure comprising a block of conducting material having a pair of parallel outer surfaces, the block having a first cylindrical bore extending between said surfaces, conductive plate means secured to each of said surfaces and closing off the ends of the bore, the block having a second bore substantially transverse to and intersecting said first bore, a pair of sleeves secured in said second bore, the sleeves extending into the first bore with their adjacent ends spaced apart for providing a capacitive gap within the first bore, and means adjacent one end of the second bore for directing a stream of electrons longitudinally through said sleeves and across said gap.

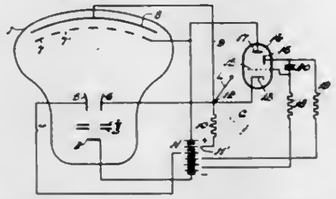


**2,644,909**

**CIRCUIT-ARRANGEMENT COMPRISING A CATHODE-RAY TUBE**

**Pieter Hendrik De Beurs, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**

**Application February 13, 1951, Serial No. 210,643**
**In the Netherlands March 6, 1950**
**4 Claims. (Cl. 315—21)**



1. In a circuit arrangement including a cathode-ray tube provided with means to generate an electron beam, a deflection electrode to deflect said beam in a given direction and a collecting electrode system disposed in the path of said beam, means coupling said collecting electrode system to said deflection electrode to cause said beam to occupy one of a plurality of inherently stable positions and means to shift the beam from one stable position to a next position; apparatus for controlling the fly back of the beam comprising an electron discharge device having a cathode, a control electrode and an anode, means coupling said device to said deflection electrode to render said device conductive when a potential on the deflection electrode exceeds a predetermined threshold value, the cathode of said device being connected to the deflection electrode, and means responsive to conduction in said device to effect a momentary increase in potential on said control electrode.

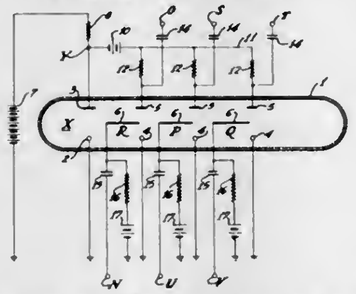
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**2,644,910**

**AMPLIFIER FOR PULSES**

**Glenn E. Hagen, Lawndale, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California**

**Application May 21, 1951, Serial No. 227,398**
**2 Claims. (Cl. 315—168)**



1. A pulse amplifier comprising an envelope containing a gas at glow discharge pressure, an electrode assembly in said envelope including a cold cathode, an anode and an input electrode, an input source of potential connected between said cathode and input electrode through an input resistor, an output source of potential connected between said cathode and anode through an output resistor, said electrode being spaced to provide a higher starting voltage between said anode and said cathode than between said input electrode and said cathode, said input and output sources of potential being of a value holding said input electrode and said anode at potentials just below their respective striking potentials, means for applying an input pulse to said input electrode to create an input glow discharge between said input electrode and cathode and thereby to initiate a main glow discharge between said anode and cathode, the drops in potential due to the current flow of said discharges through said respective input and output resistors being sufficient to extinguish said glow discharges after said input pulse has ceased, and an output pulse connection to said anode.

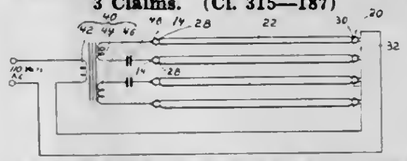
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**2,644,911**

**SAFETY SYSTEM FOR LUMINESCENT TUBES**

**Rudolph C. Hultgren, Chicago, Ill., assignor, by mesne assignments, to Bert C. Pretzer, Detroit, Mich., and Rudolph C. Hultgren, Chicago, Ill., jointly**

**Application June 7, 1947, Serial No. 753,246**
**3 Claims. (Cl. 315—187)**



1. A system for energizing a pair of luminescent electric tubes from an alternating current power supply comprising, a transformer including a primary winding and a secondary winding separate and conductively isolated therefrom, means for connecting the primary winding to the alternating current power supply, means for connecting the pair of luminescent electric tubes in series with each other and in series with the secondary winding only of said transformer including means for connecting one end of one tube to one end of the secondary winding and including a condenser in series, means for connecting one end of the other tube to the other end of the secondary winding and means for connecting the other ends of the tubes together, said means for connecting the primary winding to the alternating current supply including said means for connecting the other ends of the tubes together so that the connection between said other ends of the tubes is at no time higher than the potential of the alternating current power supply to the primary winding and so that when the connection between said other ends of the tubes is broken, the connection between the primary winding and the alternating current power supply is also broken.

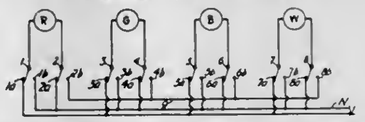
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**2,644,912**

**COLOR LIGHTING CONTROL SYSTEM**

**Rollo Gillespie Williams, Great Neck, N. Y., assignor, by mesne assignments, to Duro-Test Corporation, North Bergen, N. J., a corporation of New York**

**Application March 13, 1951, Serial No. 215,271**
**7 Claims. (Cl. 315—191)**



1. In a color lighting system, in combination, a plurality of electrical sources of light, the color

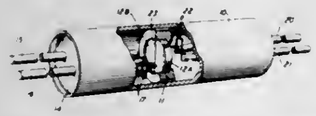
of each of which differs from the colors of the other sources, each source of color comprising a plurality of lighting units, switching means to select the units of desired colors and to connect the selected units in a network across a source of voltage, the arrangement of the units being such that certain of the selected units serve merely as resistance elements contributing to the control of the voltage across other units in said network whose luminosity enters into the production of the mixture having the desired hue of color.

2,644,913
**SURGE SUPPRESSOR**
Wallace G. Stone, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application August 16, 1949, Serial No. 110,487
1 Claim. (Cl. 315—248)



A surge suppressor of the character described comprising a tubular body of substantially circular configuration defining a continuous chamber, said body being of non-conducting material, hydrogen gas maintained in said chamber at less than atmosphric pressure, means for partially ionizing said gas, and a conductor disposed within the body and spaced therefrom whereby surges above a predetermined magnitude in the conductor increase ionization of said gaseous medium and suppress said surges.

2,644,914
**MULTICONTACT SEMICONDUCTOR TRANSLATING DEVICE**
Reymond J. Kircher, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 17, 1949, Serial No. 110,726
6 Claims. (Cl. 317—236)



1. A signal translating device comprising a wafer of semiconductive material, an ohmic connection to said wafer adjacent the periphery thereof, point contact emitter and collector connections to one face of said wafer, and a point contact bearing against the opposite face of said wafer at a region thereof remote from said emitter and collector.

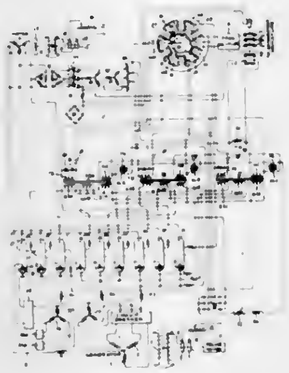
2,644,915
**SELENIUM RECTIFIER AND METHOD OF ITS PRODUCTION**
Elmer A. Thurber, Murray Hill, and Leland A. Wooten, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 24, 1950, Serial No. 175,575
7 Claims. (Cl. 317—241)

7. A dry rectifier comprising an iron base plate electrode, a uniformly thin matrix coating of finely divided nickel particles sintered to said base plate, said nickel coating consisting of from 3 to 6



milligrams of nickel per square centimeter, a selenium layer overlying said coating, and a counter-electrode on said selenium layer.

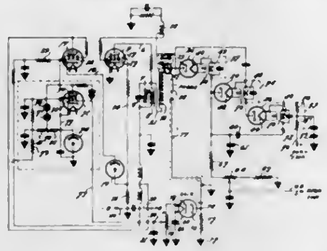
2,644,916
**ELECTRONIC MOTOR AND COMMUTATING MEANS THEREFOR**
Ernst F. W. Alexanderson and Samuel P. Nixdorff, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application February 6, 1951, Serial No. 209,646
9 Claims. (Cl. 318—138)



1. In combination, a motor having a plurality of windings, a plurality of electronic devices respectively connected with said windings, each device having a control element, control means for operably energizing said devices in a predetermined sequence including a magnetic structure, a primary winding and a plurality of secondary windings wound on said magnetic structure, said secondary windings being displaced from each other, means for supplying a relatively high frequency current to said primary winding, magnetic control means movable in accordance with rotation of said motor and with respect to said secondary windings so as to vary the magnitude of voltage respectively induced in said secondary windings, circuit means interconnecting each of said secondary windings with certain of said control elements, means for supplying a control signal to said control elements which is dependent upon the motor voltage, means for preventing interference with the signal supplied to said control elements from said secondary windings by said control signal dependent upon motor voltage, and automatic means responsive to the speed of the motor for rendering said secondary windings ineffective to control the energization of said control elements.

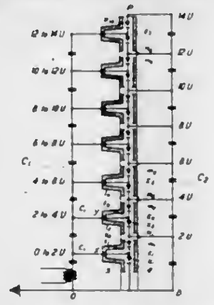


2,644,917
**REGULATED HIGH-VOLTAGE POWER SUPPLY SYSTEM**
John P. Smith, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1948, Serial No. 36,238
7 Claims. (Cl. 321—2)



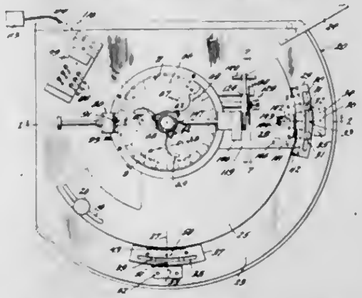
1. In a high voltage power supply system of the type including an electron tube oscillator having a high voltage output inductance and high voltage output rectifier means coupled thereto, an output voltage regulating circuit for said oscillator comprising a D.-C. amplifier connected with said oscillator having a control circuit responsive to a D.-C. control potential to vary the anode current and output voltage of said oscillator, a second rectifier having an output circuit variably connected with said D.-C. amplifier control circuit to apply said control potential thereto, and a probe electrode in the field of said high voltage output inductance in spaced low capacity coupling relation thereto and connected with said second rectifier to apply energy derived from said output inductance field to said rectifier which rectifies said energy and applies it as said control voltage to said D.-C. amplifier control circuit to maintain said oscillator output voltage constant.

2,644,918
**VOLTAGE DOUBLER**
Max Hoyaux, Jamioulx, Belgium, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium, a corporation of Belgium
Application March 18, 1952, Serial No. 277,261
In France March 21, 1951
6 Claims. (Cl. 321—15)



1. In a Greinacher voltage-doubler circuit having two condenser columns each comprising a plurality of condensers connected in series with intermediate taps between successive condensers, a rectifier column comprising an exhausted enclosure made up of a plurality of hollow T-shaped members disposed with the crosses of the T's coaxial and connected with the stems of the T's projecting laterally, a plurality of rectifiers disposed in said enclosure and connected in series with intermediate taps between successive rectifiers, a first series of terminals comprising a terminal at the outer end of each of the T stems, a second series of terminals comprising a terminal adjacent each junction between successive T crosses, the terminals of one series being connected internally to alternate rectifier taps and externally to the taps of one condenser column and the terminals of the other series being connected internally to the intervening rectifier taps and externally to the taps of the other of said condenser columns, the terminals of each series being spaced apart in the longitudinal direction of the enclosure a distance greater than the flash-over distance for the maximum voltage between successive condenser taps and the terminals of one series being spaced from those of the other series a substantially equal distance in a direction transverse to the length of said enclosure.

2,644,919
**MAGNETIC AXIS AND POLARITY TESTING DEVICE**
Harry Duke, Walter Baker Greenwood, and Jean Thomas, Winston-Salem, N. C., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 25, 1950, Serial No. 197,604
12 Claims. (Cl. 324—34)

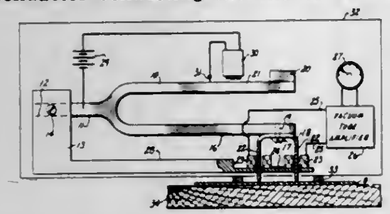


1. An apparatus for determining and indicating the relative positions of magnetic axes produced by a multiple coil inductor, which apparatus comprises means for sequentially energizing each of the coils of the inductor to produce a series of different electromagnetic fields, means for indicating the angular position of the minimum electromagnetic field strength of each coil, and means for measuring the angular separation between the successive minimum field strength indications.

2,644,920
**INSTRUMENT FOR MEASURING MAGNETIC PERMEABILITY**
Samuel Tierney, Jr., Chula Vista, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California
Application September 7, 1951, Serial No. 245,574
5 Claims. (Cl. 324—34)

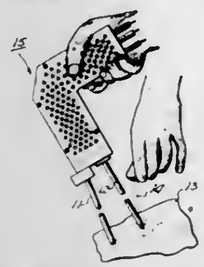
1. In an instrument for determining the magnetic permeability of a workpiece containing paramagnetic material, in combination: a pair of spaced apart magnetized cores composed of material of high magnetic permeability; a two pronged tuning fork; means secured to the movable end of one prong for supporting said cores with their ends disposed closely adjacent the surface of the workpiece; wire coils surrounding said

cores; a support arranged to support said coils at a predetermined distance apart and with small clearance spaces between the coils and said cores; a conductor connecting the end of one coil to



the end of the other; and electrical means for rapidly and continuously vibrating said tuning fork prongs to continuously vary the reluctance of the magnetic circuit through said cores and workpiece.

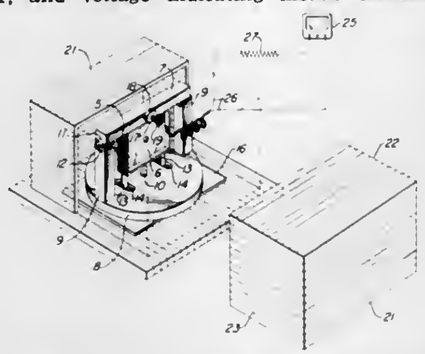
2,644,921
**MAGNETIC TESTING APPARATUS**
**Walter J. Lewkowski, Jr., Calumet City, Ill.**
**Application August 25, 1951, Serial No. 243,720**
**2 Claims. (Cl. 324—38)**



1. A magnetic tester comprising a pistol-shaped body member, a first pair of elongated leads extending from the muzzle portion of said body member, each of said leads having an exposed free end, adjusting means interconnecting said body member and one of said leads for controlling the position of the exposed end of said one lead with respect to the exposed end of the other of said leads, a second pair of electrical leads connected respectively to said first pair of leads and extending through said body member and out of the butt portion thereof, and control means on said body member operable as a trigger for controlling electrical energization of said leads.

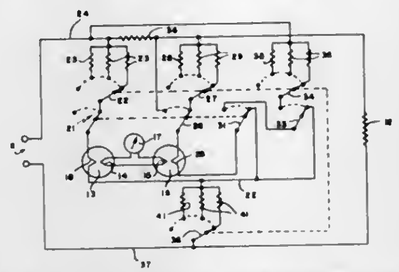
2,644,922
**MAGNETIC FLUX DIRECTION DETERMINING APPARATUS**
**Duane C. Sewell, Concord, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**Application January 5, 1951, Serial No. 204,670**
**4 Claims. (Cl. 324—47)**

1. Magnetic flux direction determining apparatus disposed in a varying magnetic field and comprising a flat coil having a much larger diameter than axial length and being pivotally mounted at the circumference thereof to hang vertically, means for varying the center of gravity of said coil to vary the vertical position thereof, mechanical damping means attached to said coil and damping motion thereof, an electrostatic shield enveloping said coil and comprising an electrically conducting material having a magnetic permeability substantially the same as air, and voltage indicating means connected



across said coil for indicating the voltage induced therein.

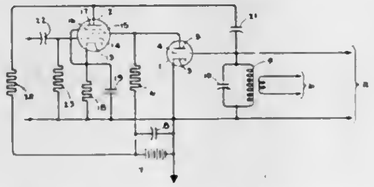
2,644,923
**THERMOCOUPLE WATTMETER**
**Earle C. Gregg, Jr., East Cleveland, Ohio, assignor to the United States of America as represented by the Secretary of the Navy**
**Application July 6, 1950, Serial No. 172,258**
**4 Claims. (Cl. 324—106)**



4. Electric measuring apparatus for power, voltage, and current comprising a plurality of thermocouples each having a heater element and a current generating electrode, a current indicating device in series connection with said current generating electrodes, a first resistor adapted to be connected in series with one lead from a power source to a load, a first group of resistors having an end of each resistor commonly connected to one side of said first resistor, a second group of resistors having an end of each resistor commonly connected to the other side of said first resistor, a third group of resistors having an end of each resistor commonly connected to said one side of said first resistor, first switching means comprising a first set of ganged single-bladed multi-poled switches, a plurality of said switches having their poles respectively associated with the other ends of said resistors of the three said groups of resistors, second switching means comprising a set of ganged switches for connecting and disconnecting said blades of said first switching means to one side of said heater elements, further resistor means connected to the other side of one of said heater elements and adapted to be tied to a return lead from said load to said power source, through a switch of said first switching means, a single switch for connecting together a switch of said first and second switching means, said single switch and a pair of switches of said second switching means being connected for selectively connecting a side of the second of said heater elements to said further resistor means or to said third group of resistors, one of said pair of switches being connected for connecting the last said side of said second heater element to said other side of said first resistor.

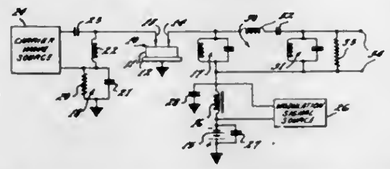


2,644,924
**FREQUENCY MODULATION SYSTEM**
**Meri T. Reynolds, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York**
**Application September 3, 1949, Serial No. 114,000**
**2 Claims. (Cl. 332—27)**



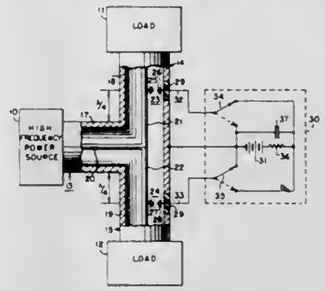
1. An oscillator comprising a first electron discharge device having a cathode, a control electrode and an anode, a resonant circuit connected in the control electrode-to-cathode circuit of said device, an impedance element connected in the anode-to-cathode circuit of said device to produce a voltage across said impedance element which varies inversely with a voltage at said control electrode, a second electron discharge device having at least a cathode, a control electrode, a screen electrode and an anode, said screen electrode being directly connected to receive the voltage developed across said impedance element, impedance means connected in the anode-to-cathode circuit of said second discharge device for producing an amplified voltage output from said second discharge device which varies inversely with the voltage supplied to said screen electrode, coupling means for delivering said amplified voltage output of said second discharge device to said control electrode of said first discharge device to produce an oscillatory voltage across said resonant circuit, and input signal connecting means to supply a signal voltage between said control electrode and said cathode of said second discharge device to vary the frequency of said oscillatory voltage in response to amplitude modulations of said signal voltage.

2,644,925
**SEMICONDUCTOR AMPLITUDE MODULATION SYSTEM**
**Leslie L. Koros, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application December 29, 1950, Serial No. 203,398**
**4 Claims. (Cl. 332—31)**



1. An amplitude modulator comprising a semiconductor device including a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, means applying a potential in the reverse direction between said collector and base electrode, means for applying a potential in the forward direction between said emitter and base electrodes of a magnitude to provide for class C operation, a carrier wave source coupled between said emitter and base electrodes, a modulation signal source coupled between said collector and base electrodes, a high pass network coupled between said collector and base electrodes for passing the second harmonic of said carrier wave with its modulation side bands and for rejecting the fundamental of said carrier wave with its modulation side bands, and a load impedance element coupled to said network.

2,644,926
**ELECTRONIC SWITCH FOR HIGH-FREQUENCY POWER**
**Arthur A. Varela, Alexandria, Va.**
**Application January 9, 1948, Serial No. 1,424**
**4 Claims. (Cl. 333—7)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

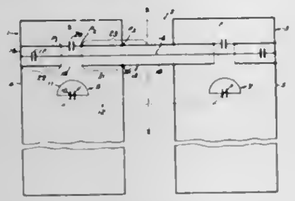



1. A switching device comprising a plurality of transmission lines having a common junction, a source of electromagnetic energy feeding one of said lines, a separate voltage discharge device positioned in each of the remaining transmission lines, each of said discharge devices having a pair of electrodes across which a voltage discharge can occur in the presence of said electromagnetic energy, a direct current source having two terminals of opposite polarity, one side of each of said transmission lines being connected to one terminal of said direct current source, switching means, one electrode of each of said discharge devices being connected to the other side of its respective transmission line, the other electrode of selected discharge devices being connected to the other terminal of said direct current source through said switching means, whereby said electromagnetic energy will be transmitted through the lines containing said selected discharge devices.

2,644,927
**COUPLING CIRCUITS**
**Milton Dishal and Jesse S. Le Grand, Nutley, N. J., assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware**
**Application November 30, 1949, Serial No. 130,198**
**13 Claims. (Cl. 333—27)**

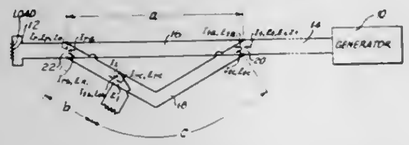
1. In a system for transmitting waves of ultra-high frequencies, the combination, with a wave translating device having a conductive shield, of a coaxial transmission line having an outer and

an inner conductor extending into said shield, said outer and inner conductors being coupled to said shield at one end, said outer conductor being provided with a discontinuity inside said shield, a first frequency-dependent reactance means bridged across said discontinuity, said inner conductor having a discontinuity inside said



shield, and a second frequency dependent reactance means bridged across the discontinuity of said inner conductor, said second frequency-dependent reactance means being adapted to resonate with said first frequency-dependent reactance means at a plurality of widely separated frequencies.

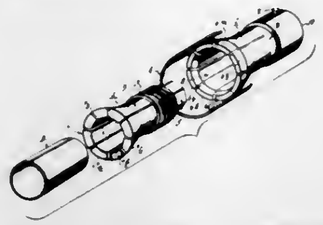
2,644,928
**DIRECTIONAL TRANSMISSION LINE TRANSDUCER**
**Lowell E. Norton, Princeton Junction, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 9, 1948, Serial No. 31,850**
**8 Claims. (Cl. 333—33)**




1. A linear passive network directional transducer comprising a transmission line section substantially a quarter wavelength long at the operating frequency, a reentrant transmission line section having junctions with said quarter wavelength section at the ends thereof, an impedance termination in said reentrant section at a point an odd number of half wavelengths from one said junction and an odd number of half wavelengths plus a quarter wavelength distant from the other said junction, said impedance termination terminating the portions of said reentrant line section on each side thereof in a highly resistive power absorbing impedance having a value different substantially from that of the characteristic impedance thereof.

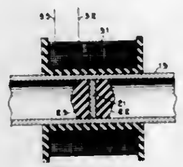
2,644,929
**SHORTING PLUG AND WRENCH**
**George A. Kumpf, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application January 30, 1948, Serial No. 5,429**
**4 Claims. (Cl. 333—82)**

1. A device for altering the electrical length of a transmission line of the type comprising spaced inner and outer concentric conductors, said device comprising a nest of two complementary, resilient frusto-conical members concentrically mountable in the space between said conductors, said members being movable with respect to each other in relative inward and outward nesting movements, whereby said expansible members are urged into and out of engagement with said



inner and outer conductors as determined by the direction of said relative nesting movement.

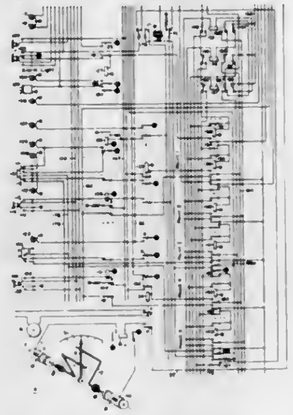
2,644,930
**MICROWAVE POLARIZATION ROTATING DEVICE AND COUPLING NETWORK**
**Charles H. Luhrs, Teaneck, N. J., and William J. Tull, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated, a corporation of New York**
**Application March 24, 1949, Serial No. 83,225**
**12 Claims. (Cl. 333—98)**



9. A microwave coupling device comprising, a round hollow open ended pipe wave guide transmission section adapted to be excited by microwave energy in a noncircular mode, a solid cylindrical member positioned therein and comprehending the axis of said wave guide section, said solid member being composed of finely divided material of the group comprising polyirons and ferrites pressed in intimate contact, and means for impressing a magnetic field on said solid member, said magnetic field extending through said solid member in a direction parallel to the axis thereof, whereby when said transmission section is excited in said noncircular mode, the plane of polarization of said energy is rotated.

2,644,931
**SUPERVISORY CONTROL SYSTEM**
**Willard A. Derr and Maurice E. Reagan, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 28, 1952, Serial No. 279,182**
**10 Claims. (Cl. 340—163)**

1. In a supervisory control system, a telemetering transmitter at a remote station, a telemetering receiver at a dispatching office, supervisory control equipment at both the remote station and dispatching office including impulse sending and receiving relays, counting means at each of the station and office operable in response to operation of the sending relays to transmit selection and check codes to selectively operate the receiving relays to first select a point at one location from the other and then check it, a switch at each of said locations operable in response to receipt of a selection or check code by the supervisory equipment at said location to condition the telemetering equipment at said location for operation, and a switch at said location operable to



initiate operation of its counting means to cause its sending relay to transmit a selection code.

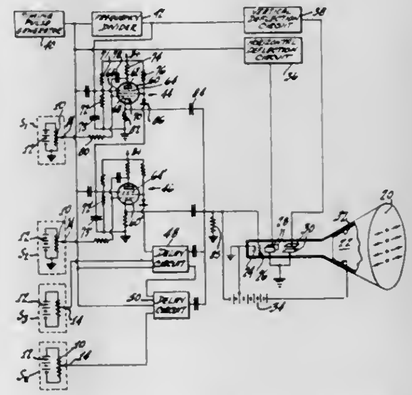


2,644,932
**PULSE AMPLITUDE RESPONSIVE SELECTIVE SYSTEM**
**Eric Arvid Ericsson, Erik Waldemar Hullegård, and Anton Christian Jacobaeus, Stockholm, Sweden, assignors to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden**
**Application December 7, 1948, Serial No. 63,872**
**In Sweden December 11, 1947**
**4 Claims. (Cl. 340—172)**



3. For use in an automatic telephone system, having a subscriber's line, a first variable resistance connected between the branches of and at one end of the line and adapted to be increased or decreased, and means to connect the other end of said subscriber's line to a receiving device; said receiving device comprising in combination a second variable resistance, a fixed resistance and an indicating relay influenced by a first electric circuit including said second variable resistance, said line with said first variable resistance and said fixed resistance; an electronic valve having a plate, grid and cathode, a condenser connecting the voltage over said fixed resistance to the grid of said valve; a first winding on said relay energized by the anode current of said valve; a second winding on said relay energized in a circuit closed when said line is connected to said receiving device; a set of relays connected to vary said second variable resistance; circuit means under control of said indicating relay for changing the polarity of charge of said condenser; auxiliary relays for disconnecting said circuit means when the valve anode current through said first winding brings said indicating relay to either its operating or releasing condition and connecting said set of relays under control of said indicating relay; a signal over said subscriber's line to said receiving device produced by varying said first resistance causing said indicating relay to actuate selected ones of said set of relays to vary said second variable resistance to compensate the variation of said first variable resistance and means on said relays of said set to indicate the signal.

2,644,933
**MULTICHANNEL TELEMETERING APPARATUS**
**Robert H. Peterson, Camden, and Herbert S. Broadwell, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application December 28, 1949, Serial No. 135,335**
**7 Claims. (Cl. 340—183)**

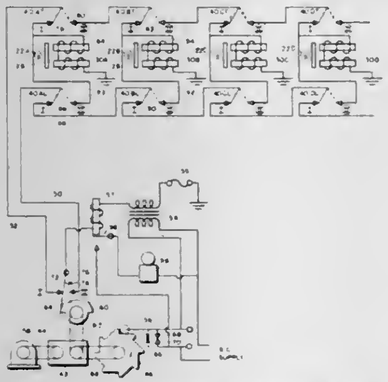


1. Apparatus for producing voltage pulses representative of a plurality of voltages from separate voltage sources to facilitate utilization of said voltages, said apparatus comprising a source of recurring time-reference voltage pulses, a plurality of pulse-output time delay circuits responsive only to at least two separate triggering pulses, means coupling said circuits one to each of said voltage sources to control the delay time of each said circuit as a function of the voltage from the source coupled thereto, means coupling said circuits to each other in sequence and separately to said pulse source for triggering said circuits in sequence each in response to a separate pulse from said pulse source and from a preceding one of said circuits, and utilization means coupled to said delay circuits and to said pulse source and responsive to said time reference pulses and to delayed pulses from said circuits.

2,644,934
**FLUID SAMPLING APPARATUS**
**Harry C. Grant, Jr., Ridgewood, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey**
**Application January 2, 1948, Serial No. 101**
**13 Claims. (Cl. 340—228)**

8. In apparatus for sampling fluid in an enclosure and testing the fluid to detect suspended

matter therein, the combination of a testing station located remotely of the enclosure and including means for detecting suspended matter in the fluid, a single continuous conduit extending through the enclosure and communicating directly with said detecting means, said conduit having a series of lengthwise spaced apart openings in the wall thereof each serving as a direct



inlet for fluid to be sampled at a given zone within the enclosure, and means for opening and closing said inlet openings in a predetermined sequence whereby fluid from the enclosure is admitted to said conduit through at least one preselected inlet opening at a time, said last mentioned means including a valve seat and a valve member therefor substantially at each inlet opening.

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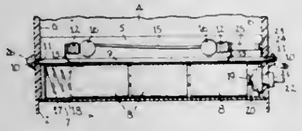
**2,644,935**

**ILLUMINATED PAGING DEVICE**

**Max H. Greenwald, Cleveland, Ohio, assignor, by direct and mesne assignments, to The Richmond Products Company, Cleveland, Ohio, a corporation of Ohio**

**Application April 28, 1950, Serial No. 158,823**

**2 Claims. (Cl. 340—321)**



2. In a paging device of the character described, the combination of a hollow display panel having open ends, said panel having an upper translucent portion and a lower opaque portion, end plates supporting said panel, said end plates having embossments thereon which are slidable into the open ends of said panel, securing means for holding said end plates to said panel, an electrical light source contained within the opaque portion of said panel, and light energizing means contained within said opaque portion of said panel and operatively connected to said light source.

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**2,644,936**

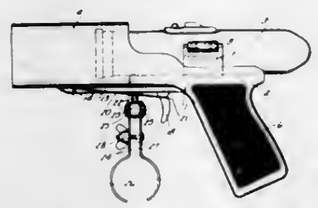
**GUN-TYPE FLASHLIGHT HOLDER**

**John Willard Johnson, Minneapolis, Minn.**

**Application March 14, 1952, Serial No. 276,549**

**8 Claims. (Cl. 340—321)**

1. In a device of the class described, a cradle for the reception of a tubular type flashlight, a tubular head on the forward end of said cradle for reception of the front end portion of said flashlight, a depending handle on the rear end portion of said cradle, means for yieldably holding said flashlight seated in the cradle, a shut-



ter, and means mounting said shutter for pivotal movements in said head from a normal inoperative position adjacent one side of the head to an operative position transversely of said head forwardly of the front end of said flashlight.

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**2,644,937**

**APPARATUS FOR THE TRANSMISSION OF ALARM SIGNALS**

**Louis Chauveau, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France**

**Original application January 13, 1948, Serial No. 1,976, now Patent No. 2,533,765, dated December 12, 1950. Divided and this application August 2, 1950, Serial No. 177,267. In France January 29, 1947**

**2 Claims. (Cl. 340—345)**



1. In a device for transmitting radio-telegraphic signals composed of a series of dashes of a given duration separated from one another by spaces of another determined duration, a direct current power supply, a potentiometer, three electromagnetic relays each having a contact member, said potentiometer being fed from said power supply through the contact members of said three different relays, a mechanism with pendular oscillations, means for normally blocking said mechanism, means for unblocking said mechanism when the potentiometer is connected to the power supply, means connected to the potentiometer and adapted to impart to said mechanism a constant oscillation period equal to the space duration of said signals and being a submultiple of the dash duration of said signals,



a chain of interconnected counting relays, a line connected to the potentiometer, adjustable means cooperating with said line and with the said mechanism to connect said line to the relays, said means including a member producing one pulse per oscillation period which is actuated by said mechanism during its oscillating movement, a recording relay having a resting contact, means actuated by a make-contact of the last counting relay and adapted to connect the recording relay to the said potentiometer, a relay controlling the transmitter operation, means to connect said last mentioned relay to the power supply through a resting contact of the recording relay, means for periodically opening the circuit to said potentiometer and power supply, said last mentioned means including three relays each having an armature and coacting contacts respectively designated make-and-break cut-off, silence, and starting relays controlling the three aforementioned contacts, and connecting the potentiometer to one terminal of the power supply, the two silence and starting contacts being mounted in parallel, and connected in series with the contacts of the third make-and-break cut-off relays, which separates them from the potentiometer, means associated with the silence relay and with one of the contacts of the last counting relay to actuate the silence make-contact opening with a given time delay, the beginning of the delay period coinciding with the opening of the potentiometer supply circuit, means associated with the starting relay, with a make-contact of the cut-off relay and with the supply circuit of the potentiometer, which are adapted to actuate with a given time delay the closing of the starting contact, this delay period beginning immediately after the opening of the silence contact, means associated with the potentiometer supply circuit and another contact member of the last counting relay, which are adapted to bring the cut-off relay excitation and the beginning of the self-excitation of the silence relay in coincidence with the pulse immediately following the one which caused the last counting relay to be energized, means associated with the make-and-break contact of the cut-off relay and with one of the terminals of the power supply to hold said cut-off relay energized after the displacement of its armature, which effects the opening of said supply circuit, and means for causing the sum of the two said delay times, and of the time interval between the pendular mechanism unblocking and the first control pulse, to equal the oscillation period of said pendular mechanism.

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**2,644,938**

**SCHLIEREN CATHODE-RAY LIGHT MODULATOR WITH MODULATING LIQUID ON CONCAVE MIRROR**

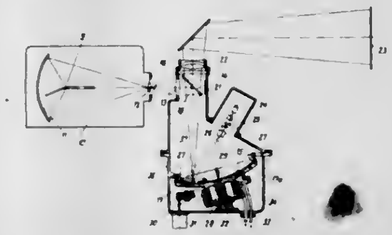
**Max Hetzel, Fred August Mast, and Hugo Ernst Wilhelm Thiemann, Zurich, Switzerland, assignors to Gesellschaft zur Forderung der Forschung an der Eidg, Technischen Hochschule, Zurich, Zurich, Switzerland, a firm of Switzerland**

**Application March 5, 1949, Serial No. 79,864**

**In Switzerland November 30, 1948**

**12 Claims. (Cl. 340—370)**

9. Apparatus for producing a television picture on a separate screen by means of a cathode ray tube and a separate light source, comprising, in combination with the cathode ray tube and separate light source, a concave mirror exposed to the cathode and light rays, an electronically deformable transparent film applied to said mirror in the path of the cathode and light rays, the deformation of said film being periodic and corresponding to the degree of modulation of the cathode ray, which modulation depends on the amplitude of the video signal, and said deformation effecting correspondingly changing refractions of and controlling direction of the light reflected by said concave mirror, a mirror system disposed substantially in the center of curvature of said concave mirror and comprising spaced strips having a light reflecting surface receiving light from said source and directing light beams through said film to said concave mirror and, if said film is not deformed, receiving the unmodulated light beams reflected by the concave mirror and directing same back to said source, said strips having opaque marginal portions, the surface of said strips being larger than the cross-sectional area of the unmodulated light beams thereat, said opaque portions absorbing uncontrollable light, the controllable light modulated by the deformed film passing through the spaces between said strips, and a rectangular blind disposed adjacent to said concave mirror and defining the area scanned by the cathode ray and having at least one rounded corner.



11. Apparatus according to claim 9, comprising means for rotating said concave mirror about its optical axis, and said cathode ray tube being so placed and operated that the lines along which the cathode ray scans the area defined by said blind are disposed at an angle to the tangents of the rotation velocity of the mirror.

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**2,644,939**

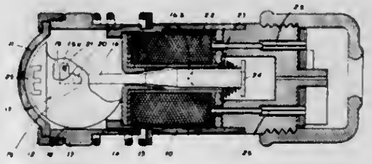
**VISIBLE INDICATOR**

**Francis Leonard Ebel, Stanmore, and Albert John Maisey, Southall, England, assignors to The Fairey Aviation Company Limited, Hayes, England**

**Application July 25, 1950, Serial No. 175,826**

**In Great Britain August 23, 1949**

**6 Claims. (Cl. 340—373)**



1. A visible indicator comprising, a window, an indicator plate located behind the window and movable from a blocked position away from said window to a displayed position so close to said window as to render said indicator readily visible therethrough, a shield, pivotal mountings for said shield behind the window enabling the shield to move from a position immediately adjacent the

rear of said window in which said shield blocks said window to a lateral position relatively to said window when said indicator plate is in its displayed position in which said shield permits said indicator plate to be visible through said window, an axially movable rod, means coordinating the above-mentioned movements of said shield and indicator plate means, means for moving said rod axially toward said window, an offset lug at the forward end of said rod engaging the shield pivotally, and spring return means for said axial rod.

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**2,644,940**

## SYSTEM FOR THE ELECTROMAGNETIC SPOTTING OF MOVABLE TARGETS

**Henri Georges de France, Paris, France, assignor to Society "La Radio-Industrie," S. A., Paris, France, a society of France**

**Application November 26, 1948, Serial No. 61,996**
**In France November 26, 1947**
**3 Claims. (Cl. 343—7.3)**



1. A radio device for spotting and automatically following a movable target which comprises, in combination, a first tracking unit including a space scanning directional antenna array and means responsive to electromagnetic signals received by said antenna array from said target for automatically laying said antenna array on said target and keeping it laid thereon, a second tracking unit including a space scanning directional antenna array of smaller angular scanning field but of higher location accuracy than said first mentioned antenna array and means responsive to electromagnetic signals received by said last mentioned antenna array for keeping said last mentioned antenna array laid on said target, means for making said second tracking unit inoperative as long as said first mentioned means have not laid said first mentioned antenna array on said target, means interposed between said first mentioned antenna array and said second mentioned antenna array for laying said second one in accordance with the laying displacements of the first one, and means for automatically making said first mentioned tracking unit inoperative and said second mentioned tracking unit operative in response to the laying of the first mentioned antenna array on the target.

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**2,644,941**

## FLYING AID FOR PILOTED AIRCRAFT

**Spencer Kellogg 2nd, Glen Head, N. Y., assignor to The Sperry Corporation, a corporation of Delaware**

**Application January 28, 1952, Serial No. 268,655**
**27 Claims. (Cl. 343—107)**

1. A visual flying aid for manually piloted aircraft comprising an indicator having a reference index, a moveable indicating member and actuating means therefor, angular rate-of-turn-responsive means for providing a signal proportional to the angular rate of turn of said craft about an axis thereof from a predetermined attitude, means for integrating said rate of turn signal to thereby provide a signal proportional to the angular displacement of said craft from said predetermined attitude, means for algebraically combining said rate and displacement signals, and means for supplying the resultant signal to said actuating means.



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**2,644,942**

## TELEVISION CARRIER CONTROL SYSTEM

**Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application March 18, 1949, Serial No. 82,034**
**11 Claims. (Cl. 343—208)**



5. In a television transmission system including at least first and second transmitters adapted for concomitant operation on the same television channel, each transmitter being modulated by composite television signals having a periodically recurring horizontal synchronizing signal component and each transmitter producing a detectable signal strength in a common receiving zone; an interference reducing arrangement comprising in combination: means for maintaining the carrier frequency of the first transmitter at a fixed predetermined value; and means for controlling the carrier frequency of the second transmitter to maintain between the first and second transmitter carriers a substantially fixed frequency difference having a value of frequency less than the equivalent frequency of the horizontal synchronizing signal component of one of the transmitted composite television signals.



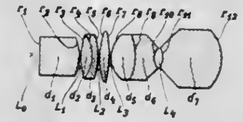
**2,644,943**

## MICROSCOPE OBJECTIVE

**Walter Klein, Dutenhofen (Kreis Wetzlar), Germany, assignor to Ernst Leitz, G. m. b. H., a corporation of Germany**

**Application July 5, 1951, Serial No. 235,133**
**In Germany July 17, 1950**
**7 Claims. (Cl. 88—57)**

1. Microscope objective comprising a front lens of substantially plano convex formation, two thick menisci positioned on the image side of said front lens near the rear end of said objective with their hollow surfaces facing each other to provide for leveling of the image field and disposed so close together that the center of curvature of the rearmost of the said two menisci is located axially in front of the center of curvature

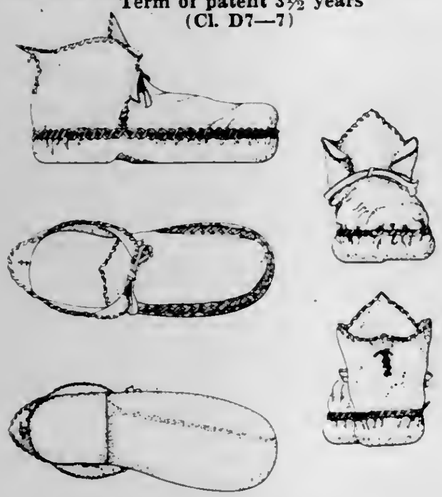


of the foremost of said menisci, both of said hollow surfaces being positioned in said objective at the point thereof where the pencil of rays is most restricted.

# DESIGNS

JULY 7, 1953

**169,956**
**SHOE**
**Nina Baroumes, Juneau, Territory of Alaska**
**Application February 20, 1953, Serial No. 23,715**
**Term of patent 3½ years**
**(Cl. D7—7)**



The ornamental design for a shoe, as shown.

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**169,957**
**DECANTER**
**Hyman C. Berkowitz, Wendell, Idaho, assignor to Berke Brothers Distilleries Inc., Boston, Mass., a corporation of Delaware**
**Application March 30, 1953, Serial No. 24,242**
**Term of patent 14 years**
**(Cl. D58—8)**



The ornamental design for a decanter, substantially as shown and described.

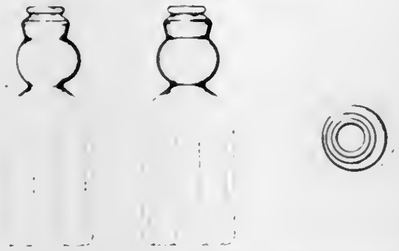
**169,958**
**MILK BOTTLE**
**Royden A. Blunt, Baltimore, Md.**
**Application April 24, 1951, Serial No. 14,942**
**Term of patent 14 years**
**(Cl. D58—6)**



The ornamental design for a milk bottle, substantially as shown and described.

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**169,959**
**MILK BOTTLE**
**Royden A. Blunt, Baltimore, Md.**
**Application July 24, 1951, Serial No. 16,008**
**Term of patent 14 years**
**(Cl. D58—6)**



The ornamental design for a milk bottle, substantially as shown and described.

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**169,960**
**WALL FIXTURE FOR DEODORIZING LAMPS**
**Harold A. Brill, Elkins Park, and Morris S. Slotsky, Philadelphia, Pa., assignors to Brill-Sloane Company, Philadelphia, Pa., a partnership**
**Application July 23, 1952, Serial No. 20,736**
**Term of patent 14 years**
**(Cl. D16—2)**

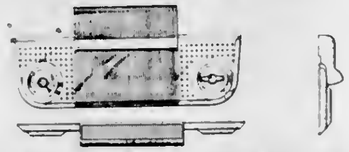


The ornamental design for a wall fixture for deodorizing lamps, substantially as shown.





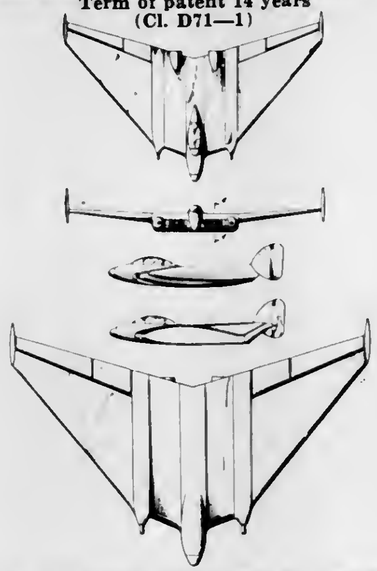
**169,961**
**CONTROL PANEL FOR FREEZERS, REFRIGERATORS, AND THE LIKE**
**Robert D. Budlong, Skokie, Ill., assignor to Amana Refrigeration, Inc., Amana, Iowa, a corporation of Iowa**
**Application August 19, 1952, Serial No. 21,114**
**Term of patent 14 years**
**(Cl. D67—3)**



The ornamental design for a control panel for freezers, refrigerators, and the like, substantially as shown.

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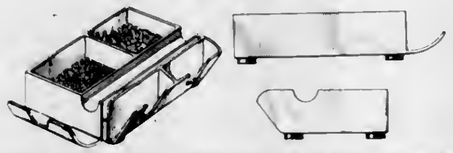
**169,962**
**AIRPLANE**
**Vincent J. Burnelli, Great Neck, N. Y.**
**Application October 4, 1951, Serial No. 16,834**
**Term of patent 14 years**
**(Cl. D71—1)**



The ornamental design for an airplane, as shown.

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**169,963**
**TRAY FOR TYPISTS' ACCESSORIES**
**Louis P. Caldwell and Philipp C. Wohlt, Independence, Mo.**
**Application March 16, 1953, Serial No. 24,046**
**Term of patent 14 years**
**(Cl. D74—5)**



The ornamental design for a tray for typists' accessories, as shown.

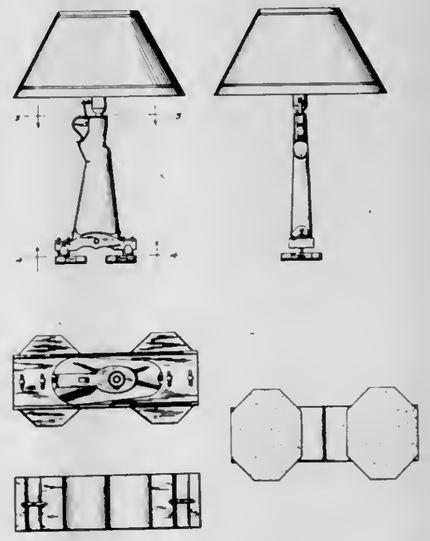
**169,964**
**SPORT SHIRT**
**Martin E. Cantor, Bangor, Maine**
**Application April 30, 1952, Serial No. 19,539**
**Term of patent 14 years**
**(Cl. D3—25)**



The ornamental design for a sport shirt, as shown and described.

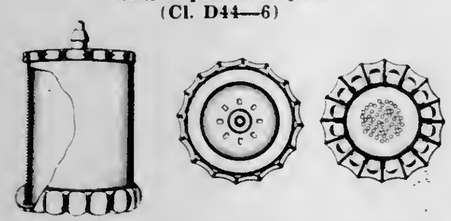
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**169,965**
**LAMP**
**Charles R. Cassell, Oklahoma City, Okla.**
**Application February 27, 1953, Serial No. 23,826**
**Term of patent 14 years**
**(Cl. D48—20)**



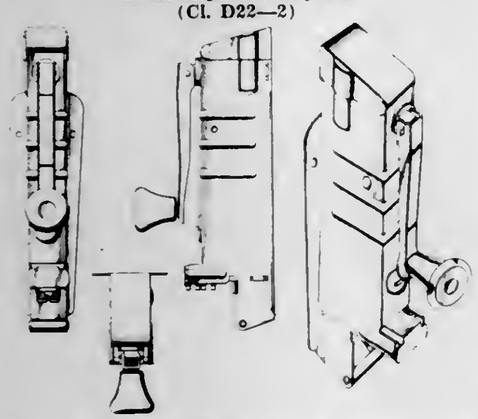
The ornamental design for a lamp, substantially as shown.

169,966
**CANISTER**
Christy M. Del Mas, New York, N. Y., assignor to Grace-Mas Enterprises, Inc., New York, N. Y., a corporation of New York
Application August 29, 1952, Serial No. 21,237
Term of patent 14 years
(Cl. D44—6)



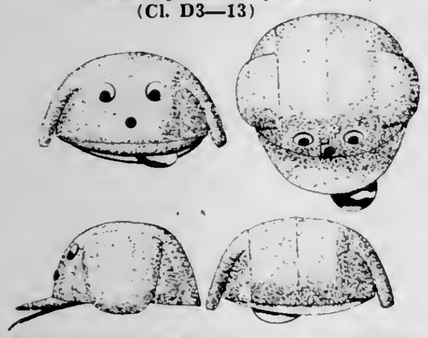
The ornamental design for a canister, as shown.

169,967
**CAN OPENER OR THE LIKE**
Walter W. Edlund, Burlington, Vt.
Application October 6, 1952, Serial No. 21,737
Term of patent 14 years
(Cl. D22—2)



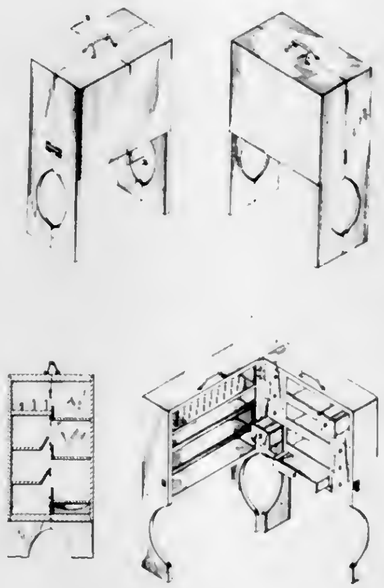
The ornamental design for a can opener or the like, as shown.

169,968
**CAP**
Samuel Feldman, New York, N. Y.
Application June 3, 1952, Serial No. 20,004
Term of patent 14 years
(Cl. D3—13)



The ornamental design for a cap, substantially as shown.

169,969
**SEWING CABINET**
Benjamin L. Franklin, Tucson, Ariz.
Application November 28, 1952, Serial No. 22,486
Term of patent 14 years
(Cl. D3—19)



The ornamental design for a sewing cabinet, as shown.

169,970
**POWDER DISPENSING CAN**
Ernest W. Freeman, Belleville, N. J., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 17, 1953, Serial No. 24,058
Term of patent 14 years
(Cl. D58—17)



The ornamental design for a powder dispensing can, as shown.

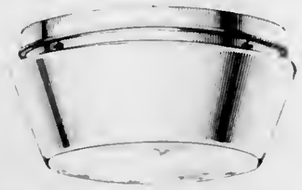


169,971
**HAT**
Theodor Seuss Geisel, La Jolla, Calif., assignor to Columbia Pictures Corporation, New York, N. Y., a corporation of New York
Application October 8, 1952, Serial No. 21,759
Term of patent 14 years
(Cl. D3—13)



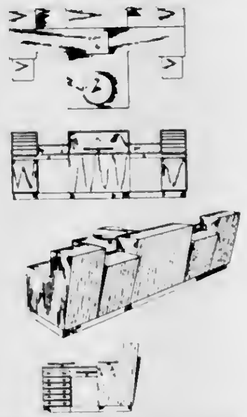
The ornamental design for a hat, as shown.

169,972
**LIGHTING FIXTURE**
George E. Glatthar, University Heights, and Arthur W. Matteson, Lakewood, Ohio, assignors to The Art Metal Company, Cleveland, Ohio, a corporation of Ohio
Application December 5, 1952, Serial No. 22,572
Term of patent 14 years
(Cl. D48—23)



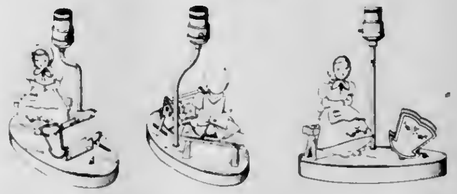
The ornamental design for a lighting fixture, as shown.

169,973
**COMBINED DESK AND COUNTER**
Walter D. Goins, Sr., Birmingham, Ala.
Application August 13, 1952, Serial No. 20,989
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a combined desk and counter, as shown and described.

169,974
**MUSIC BOX NURSERY LAMP**
Robert Goldman and Roy R. Nemzer, South Hempstead, N. Y., assignors to Bo-Low Lamp Corp., Brooklyn, N. Y., a corporation of New York
Application February 16, 1953, Serial No. 23,642
Term of patent 14 years
(Cl. D48—20)



The ornamental design for a music box nursery lamp, as shown.

169,975
**MUSIC BOX NURSERY LAMP**
Robert Goldman and Roy R. Nemzer, South Hempstead, N. Y., assignors to Bo-Low Lamp Corp., Brooklyn, N. Y., a corporation of New York
Application February 16, 1953, Serial No. 23,643
Term of patent 14 years
(Cl. D48—20)



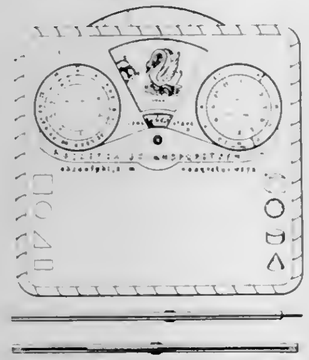
The ornamental design for a music box nursery lamp, as shown.

169,976
**HOBBYHORSE**
Milburn R. Hutchison, La Jolla, Calif.
Application April 13, 1953, Serial No. 24,462
Term of patent 14 years
(Cl. D34—15)



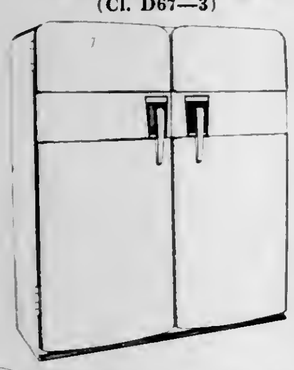
The ornamental design for a hobby horse, substantially as shown and described.

169,977
**DRAWING BOARD**
Lawrence Jonesi, Chicago, Ill.
Application March 2, 1953, Serial No. 23,845
Term of patent 14 years
(Cl. D25—1)



The ornamental design for a drawing board, as shown.

169,978
**COMBINATION FREEZER AND REFRIGERATOR**
George P. Kennedy, Conklin, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 10, 1953, Serial No. 23,973
Term of patent 14 years
(Cl. D67—3)





The ornamental design for a combination freezer and refrigerator, substantially as shown and described.

169,979
**GAME BOARD OR SIMILAR ARTICLE**
Herman Kesler, Jenkintown, Pa.
Application February 10, 1953, Serial No. 23,530
Term of patent 14 years
(Cl. D34—5)



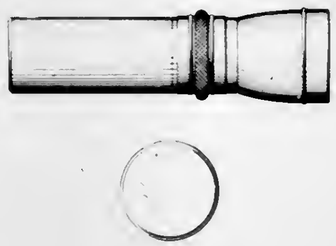
The ornamental design for a game board or similar article, substantially as shown.

169,980
**CRAYON SHARPENER**
Mary C. Knapp, Bradenton, Fla.
Application May 22, 1952, Serial No. 19,830
Term of patent 14 years
(Cl. D74—21)



The ornamental design for a crayon sharpener, as shown.

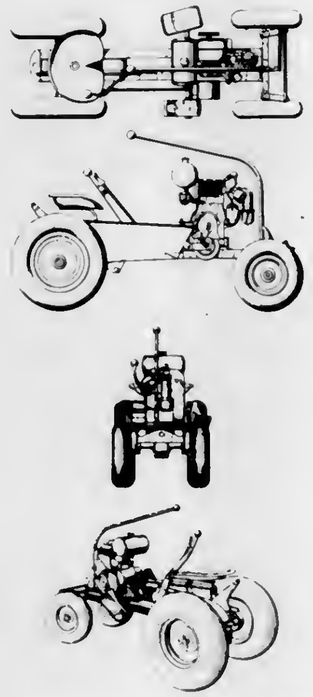
169,981
**FLASHLIGHT CASING**
Reuben B. Lambert, New Haven, Conn.
Application January 22, 1953, Serial No. 23,250
Term of patent 14 years
(Cl. D48—24)



The ornamental design for a flashlight casing, substantially as shown.

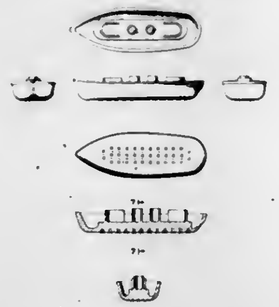


169,982
**TRACTOR**
Arthur J. Lewis, Stratford, Conn., assignor to The Baird Machine Company, Stratford, Conn., a corporation of Connecticut
Application January 31, 1951, Serial No. 14,051
Term of patent 14 years
(Cl. D14—3)



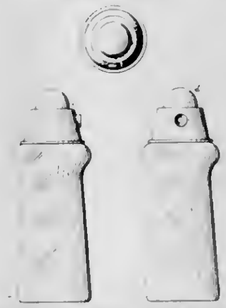
The ornamental design for a tractor, substantially as shown.

169,983
**CHILD'S SCRUB BRUSH**
Joseph W. Mayer, Troy, N. Y., assignor to Autograf Brush & Plastics Co., Incorporated, a corporation of New York
Application September 5, 1952, Serial No. 21,349
Term of patent 14 years
(Cl. D9—2)



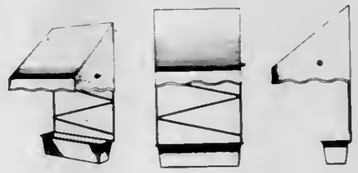
The ornamental design for a child's scrub brush, as shown and described.

169,984
**SPRAY-TYPE DISPENSER FOR LIQUIDS**
Kenneth K. Miller, Kalamazoo, Mich., assignor to Miller Protecto Products Company, Kalamazoo, Mich., a corporation of Michigan
Application July 31, 1952, Serial No. 20,861
Term of patent 14 years
(Cl. D62—2)



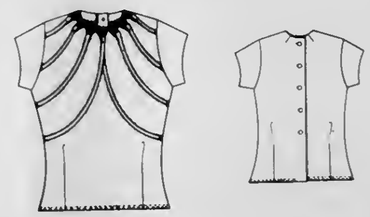
The ornamental design for a spray-type dispenser for liquids, substantially as shown.

169,985
**COMBINED LAMP AND CONTAINER OR THE LIKE**
John B. Musacchia, Brooklyn, N. Y., and Raymond Nicyper, Bergenfield, N. J.
Application January 29, 1953, Serial No. 23,338
Term of patent 14 years
(Cl. D48—4)



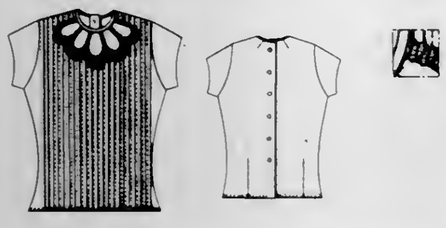
The ornamental design for a combined lamp and container or the like, as shown.

169,986
**BLOUSE**
Jack Orloff, New York, N. Y.
Application March 18, 1953, Serial No. 24,083
Term of patent 3½ years
(Cl. D3—25)



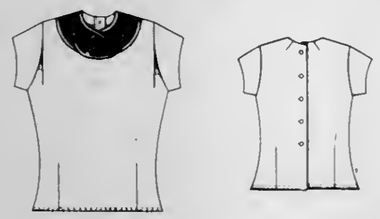
The ornamental design for a blouse, substantially as shown.

169,987
**BLOUSE**
Jack Orloff, New York, N. Y.
Application March 18, 1953, Serial No. 24,084
Term of patent 3½ years
(Cl. D3—25)



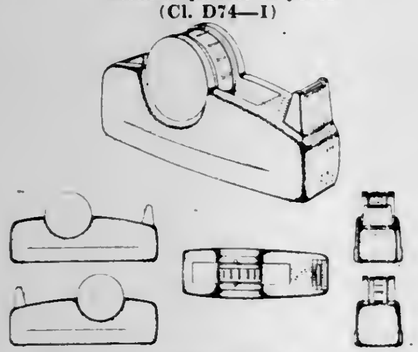
The ornamental design for a blouse, substantially as shown.

169,988
**BLOUSE**
Jack Orloff, New York, N. Y.
Application March 18, 1953, Serial No. 24,085
Term of patent 3½ years
(Cl. D3—25)



The ornamental design for a blouse, substantially as shown.

169,989
**TAPE DISPENSER**
Jean Otis Reinecke, Chicago, Ill., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application January 24, 1952, Serial No. 18,191
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a tape dispenser, as shown and described.

169,990
**LADY'S STOCKING**
Melvin A. Rickert, Lambertville, N. J., assignor to Amwell Full Fashioned Hosiery Company, Inc., Lambertville, N. J.
Application February 2, 1953, Serial No. 23,388
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown.

169,991
**HAT AND COAT HANGER**
Solomon M. Sager, Fort Wayne, Ind.
Application March 4, 1952, Serial No. 18,766
Term of patent 3½ years
(Cl. D33—8)



The ornamental design for a hat and coat hanger, as shown.

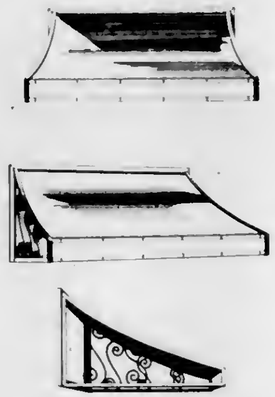
169,992
**SHAPED TEXTILE FABRIC**
Madalyn Miller Schimmel, Los Angeles, Calif.
Application September 15, 1952, Serial No. 21,459
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a shaped textile fabric, substantially as shown.

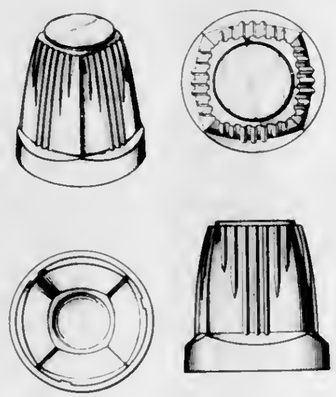


169,993
**AWNING**
William I. Smith, Perrysburg, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application September 30, 1952, Serial No. 21,654
Term of patent 14 years
(Cl. D21—6)



The ornamental design for an awning, as shown.

169,994
**CLOSURE CAP FOR STEEL CANS OR SIMILAR ARTICLES**
Jack W. Soffer, St. Louis, Mo., and George S. Hunt, Pacific Palisades, Calif., assignors to Development Research, Inc., St. Louis, Mo., a corporation of Missouri
Application September 25, 1952, Serial No. 21,577
Term of patent 14 years
(Cl. D58—26)



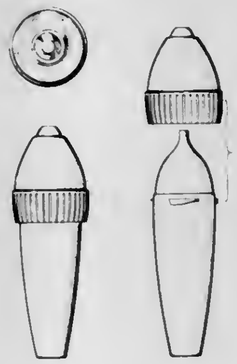
The ornamental design for a closure cap for steel cans or similar articles, substantially as shown.

169,995
**FRONT FOR SPECTACLE FRAMES**
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 22, 1952, Serial No. 20,716
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a front for spectacle frames, substantially as shown.

169,996
**DROPPER FOR THE EARS, EYES, NOSE OR THE LIKE**
Robert P. Vuillemenot, River Edge, N. J., and Melvin E. St. Clair, Hartford, Conn., assignors to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application February 17, 1953, Serial No. 23,653
Term of patent 14 years
(Cl. D83—1)



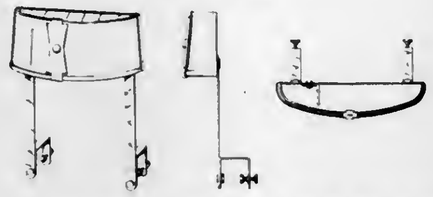
The ornamental design for a dropper for the ears, eyes, nose or the like, as shown and described.

169,997
**BROOCH OR SIMILAR ARTICLE**
Florence C. Witmer, New York, N. Y.
Application June 26, 1952, Serial No. 20,368
Term of patent 14 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

169,998
**BED LAMP**
Harry Witt, New Rochelle, N. Y.
Application February 18, 1953, Serial No. 23,670
Term of patent 14 years
(Cl. D48—20)



The ornamental design for a bed lamp, substantially as shown and described.

July 14, 1953 Volume 672 Number 2

# Official Gazette

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Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

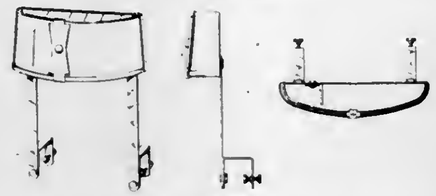
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169,997
**BROOCH OR SIMILAR ARTICLE**
Florence C. Witmer, New York, N. Y.
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169,998
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U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

## Condition of Applications Under Examination at Close of Business June 19, 1953

Total number of patent applications awaiting action, 98,656. Date of oldest new application, September 10, 1952; date of oldest amended application, September 10, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| *(C. E. D.) KEELY, J. E. | | | |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 9-16-52 | 9-15-52 | 1449 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 10-17-52 | 10-8-52 | 1109 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 10-29-52 | 10-28-52 | 1942 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 10-1-52 | 10-1-52 | 1463 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates. | 10-10-52 | 10-10-52 | 993 |
| 6. SURLE, H., Carbon Chemistry (part) | 9-10-52 | 9-12-52 | 2611 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 10-10-52 | 10-10-52 | 1620 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 10-9-52 | 10-6-52 | 1669 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 10-9-52 | 10-9-52 | 1230 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 10-22-52 | 10-20-52 | 1320 |
| 11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 10-4-52 | 10-8-52 | 1135 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 10-21-52 | 10-8-52 | 1214 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 9-11-52 | 9-10-52 | 1232 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 10-16-52 | 10-16-52 | 1447 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 9-22-52 | 9-22-52 | 1660 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 9-26-52 | 9-29-52 | 1634 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 9-27-52 | 9-29-52 | 1556 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 10-17-52 | 10-15-52 | 859 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 9-30-52 | 9-30-52 | 1185 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 10-20-52 | 10-16-52 | 1276 |
| 21. MADER, R. C., Textiles | 9-29-52 | 9-24-52 | 1309 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 10-14-52 | 10-11-52 | 959 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 9-23-52 | 9-20-52 | 851 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 11-25-52 | 11-15-52 | 1024 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 9-18-52 | 9-15-52 | 1281 |
| 26. YOUNO, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 10-20-52 | 10-20-52 | 1851 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 10-7-52 | 10-7-52 | 1206 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 10-13-52 | 10-6-52 | 1092 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 9-24-52 | 9-27-52 | 1156 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 11-26-52 | 11-26-52 | 1320 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 9-20-52 | 9-22-52 | 2453 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-4-52 | 11-4-52 | 1237 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 10-1-52 | 10-1-52 | 1858 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 9-27-52 | 9-20-52 | 1245 |
| 35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles | 11-12-52 | 10-28-52 | 1155 |
| 36. McFADYEN, A. D., Measuring and Testing | 10-16-52 | 10-20-52 | 1070 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 10-23-52 | 11-4-52 | 1692 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 10-10-52 | 10-10-52 | 1543 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 12-4-52 | 11-25-52 | 1671 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 1-2-53 | 1-2-53 | 942 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | 10-18-52 | 10-16-52 | 1516 |

*Commissioner's Examiners' Division.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 9-30-52 | 9-27-52 | 1919 |
| 43. ASP, N. A. (KNIGHT, W. O., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-1-52 | 10-1-52 | 1780 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 10-20-52 | 10-22-52 | 1323 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 9-29-52 | 9-19-52 | 1088 |
| 47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 10-1-52 | 9-29-52 | 1639 |
| 48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting. | 9-20-52 | 9-19-52 | 1889 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 10-20-52 | 10-8-52 | 1309 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 12-3-52 | 12-9-52 | 1568 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 9-30-52 | 9-27-52 | 1590 |
| 52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 11-7-52 | 11-10-52 | 1871 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 10-17-52 | 10-11-52 | 981 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications. | 10-7-52 | 10-6-52 | 1824 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 10-13-52 | 10-14-52 | 933 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 11-8-52 | 11-5-52 | 1268 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 10-27-52 | 10-16-52 | 1678 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittons. | 9-25-52 | 9-22-52 | 1394 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 10-15-52 | 10-17-52 | 1400 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 10-24-52 | 10-8-52 | 962 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 10-21-52 | 10-21-52 | 1198 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 9-30-52 | 9-25-52 | 1794 |
| 64. GORECKI, O. A., Fuels and Miscellaneous Compositions | 9-26-52 | 9-25-52 | 1810 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316). | | | |
| 66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales | 10-24-52 | 10-21-52 | 804 |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 10-13-52 | 10-15-52 | 1713 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 11-12-52 | 11-14-52 | 1414 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 10-7-52 | 10-6-52 | 1628 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 9-15-52 | 9-12-52 | 3325 |
| DESIGNS: A—BREHM, G. L., Industrial Arts | 2-20-53 | 2-24-53 | 925 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 2-26-53 | 2-20-53 | 794 |

Number of new applications received week ending June 12, 1953

PATENTS 1,398 DESIGNS 101 REISSUES 2 TOTAL 1,501

Total number of trade-mark applications awaiting action (including renewals and republications), 10,296. Date of oldest new application, January 27, 1953; date of oldest amended application, January 27, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 1-27-53 | 1-27-53 | 2462 |
| II. SUMMERS, O. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 2-9-53 | 2-16-53 | 2427 |
| Renewals (All Classes) | 4-22-53 | 6-1-53 | 538 |
| Republications (All Classes) | 4-27-53 | 5-17-53 | 240 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 2-9-53 | 2-7-53 | 2467 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 1-30-53 | 1-30-53 | 2162 |

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abco, Inc., formerly known as Apter Bros. & Co., Inc., McKeesport, Pa. Lacquer type coating compositions. Serial No. 610,605, July 14. Class 16.

Aeroplane Tackle Manufacturing Co.: *See*—
Scanlan, Elizabeth S.

Air Reduction Company, Incorporated, New York, N. Y. Electric control unit. Serial No. 625,385, July 14. Class 21.

Alberts, Arthur S., New York, N. Y. Grooved phonograph records. Serial No. 620,947, July 14. Class 36.

Aldens, Inc., Chicago, Ill. Linoleum, linoleum rugs, linoleum mats, etc. Serial No. 632,709, July 14. Class 20.

Allied Hardware & Stamping Co.: *See*—
Iovieno, Albert J.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrical overload indicators. Serial No. 623,697, July 14. Class 26.

Aluminum Specialty Company, Manitowoc, Wis. Anodized toy aluminum tea sets. Serial No. 630,820, July 14. Class 22.

Amhory Corporation, The, Hazel Park, Mich. Electrical heating elements and electrical immersion water heaters. Serial No. 638,513, July 14. Class 21.

American Bildrok Company, Chicago, Ill. Granular odor and moisture absorptive litter for animal pets. Serial No. 639,402, July 14. Class 1.

American Hoist & Derrick Co., St. Paul, Minn. Rope clamps. Serial No. 638,388, July 14. Class 13.

American Lead Pencil Company, Hoboken, N. J. Lead pencils. Serial No. 637,261, July 14. Class 37.

American National Travelers Service: *See*—
Rusbmore, Walter C.

American Stores Company, Philadelphia, Pa. Imitation strawberry soda, imitation grape soda, imitation cherry soda, etc. Serial No. 590,055, July 14. Class 45.

American Tool Works Co., The, Cincinnati, Ohio. Engine lathes and radial drills. Serial No. 644,709, July 14. Class 23.

American Vacuum Company: *See*—
Persons, Ralph H.

American Waterproofing Corp., New Haven, Mo. Fireproofing canvas and fabrics. Serial No. 640,996, July 14. Class 106.

Applegate, Ray D., Agency: *See*—
Applegate, Raymond D.

Applegate, Raymond D., doing business as Ray D. Applegate Agency, Rockville Centre, N. Y. General insurance brokerage. Serial No. 635,576, July 14. Class 102.

Apollo Company, Inc., The, Detroit, Mich. Diaper bags, picnic bags, and food-carrying bags. Serial No. 630,917, July 14. Class 2.

Apter Bros. & Co., Inc.: *See*—
Abco, Inc.

Arcos Corporation, Philadelphia, Pa. Electric arc welding electrodes. Serial No. 622,977, July 14. Class 14.

Arkansas Company Inc., Newark, N. J. Textile treating compositions. Serial No. 635,020, July 14. Class 6.

Arkow-Lewis Frosties Division, Philadelphia, Pa. Adhesive coated cut outs of spun glass. Serial No. 629,595, July 14. Class 50.

Arnold, S. J., Company, Cleveland, Ohio. Undercoatings, primer coatings, or like preparatory protective coatings, etc. Serial No. 622,688, July 14. Class 10.

Artistic Foundations, Inc., New York, N. Y. Girdles. Serial No. 638,052, July 14. Class 39.

Associated Dye & Print Co. Inc., Paterson, N. J. Chemically treating plain goods of others to create a quilted effect on the goods in color. Serial No. 636,192, July 14. Class 106.

Astron Corporation, East Newark, N. J. Capacitors. Serial No. 615,006, July 14. Class 21.

Atalanta Trading Corporation, New York, N. Y. Canned ham. Serial No. 635,388, July 14. Class 46.

Atalanta Trading Corporation, New York, N. Y. Canned ham. Serial No. 635,390, July 14. Class 46.

Atalanta Trading Corporation, New York, N. Y. Canned ham. Serial Nos. 635,394–5, July 14. Class 46.

Atlantic Trading Food Corp., New York, N. Y. Salami. Serial No. 631,716, July 14. Class 46.

Atlas Baby Carriage Co., Inc., New York, N. Y. Baby carriages and strollers. Serial No. 632,144, July 14. Class 19.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Coating material. Serial No. 624,588, July 14. Class 16.

Atlas Powder Company, Wilmington, Del. Technical bulletin. Serial No. 641,665, July 14. Class 38.

Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie, Vienna, Austria. Snuff, chewing and smoking tobacco, cigars, etc. Serial No. 627,312, July 14. Class 17.

Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische, Tabakregie, Vienna, Austria. Snuff, chewing and smoking tobacco, cigars, etc. Serial No. 630,868, July 14. Class 17.

Bal Dolls, Inc., New York, N. Y. Dolls. Serial No. 640,489, July 14. Class 22.

Barbee Bait Company, Fort Wayne, Ind. Artificial fish lures. Serial No. 627,994, July 14. Class 22.

Barmatic Products Company, Cleveland, Ohio. Drag links and tie rod ends for automotive vehicles. Serial No. 669,712, July 14. Class 19.

Bates, R. W., Piece Dye Works, Inc., Garnerville, N. Y. Treating rayon and acetate suiting fabrics. Serial No. 637,698, July 14. Class 106.

Bee Chemical Company, Chicago, Ill. Synthetic enamels and varnishes. Serial No. 619,379, July 14. Class 16.

Berlin & Jones Co., Inc., New York, N. Y. Correspondence envelopes. Serial No. 638,395, July 14. Class 37.

Betco Corporation, The, Toledo, Ohio. Detergents. Serial No. 643,402, July 14. Class 52.

Birmingham Paper Company, Birmingham, Ala. Catalogs, drawings, and printed charts. Serial No. 622,008, July 14. Class 38.

Bonne Bell Inc., Lakewood, Ohio. Face cream. Serial No. 640,437, July 14. Class 51.

Bourjois, Inc., New York, N. Y. Men's toilet preparations. Serial No. 636,876, July 14. Class 51.

Boyle-Midway Inc., assignee: *See*—
Make It Snow, Inc.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers of all kinds of fabrics. Serial No. 640,492, July 14. Class 106.

Burcham, Gouley N., doing business as Inspectors Sea Food Co., Los Angeles, Calif. Canned clam chowder and canned clams. Serial No. 644,387, July 14. Class 46.

Burlington Mills Corporation, Greensboro, N. C. Ribbons for use in tying and ornamenting packages, etc. Serial No. 635,398, July 14. Class 7.

Burns, Martha B., Wichita, Kans. Clip-on adjuster which facilitates the fitting of a garment to a display form. Serial No. 637,110, July 14. Class 40.

Califone Corporation, Hollywood, Calif. Speed control mechanism for record players. Serial No. 611,756, July 14. Class 21.

California Marine Curing & Packing Co., Terminal Island, Calif. Canned tuna fish. Serial No. 626,558, July 14. Class 46.

Cameron Machine Company, Brooklyn, N. Y. Slitting wheel assembly. Serial No. 641,172, July 14. Class 23.

Candle-Lite Chemical Company, Miami, Fla. Vaporizer for insecticide particularly adapted for attachment to an electric light bulb. Serial No. 630,117, July 14. Class 21.

Cannon, Sarah O., Nashville, Tenn. Entertainment service. Serial No. 625,333, July 14. Class 107.

Capewell Manufacturing Company, The, Hartford, Conn. Ground flat metal stock. Serial No. 631,141, July 14. Class 14.

Cardinal Neckwear: *See*—
Rosenberg, Harry.

Cat Cay Realty Company, Limited, The, Nassau, Island of New Providence, Bahama Islands, British West Indies. Cigarette lighters; cigarette cases; and smokers' pipes. Serial No. 639,804, July 14. Class 8.

Chambers, Harry C., doing business as U-Neek Manufacturing Co., St. Louis, Mo. Trailer hitches. Serial No. 629,555, July 14. Class 14.

Chapman, Samuel, Inc., New York, N. Y. Fabrics. Serial No. 627,733, July 14. Class 42.

Charles of New Orleans: *See*—
Maginnis, Charles M.

Chicago Carton Company: *See*—
United Biscuit Company of America.

Chicopee Manufacturing Corporation, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y. Cotton linings. Serial No. 615,624, July 14. Class 42.

Chicopee Mills, Inc., assignee: *See*—
Chicopee Manufacturing Corporation.

Clark Thread Company, The, Wilmington, Del., and Clarkdale, Ga., now by change of name and merger Coats & Clark Inc. Stranded cotton. Serial No. 590,582, July 14. Class 43.

Coats & Clark Inc.: *See*—
Clark Thread Company, The.

Coen Company, San Francisco, Calif. Fuel burners, and parts thereof. Serial No. 617,579, July 14. Class 34.

Comptoir de l'Industrie Cotonniere, Etablissements Boussac, Société à Responsabilité Limitée, Paris, France. Textile fabrics. Serial No. 639,417, July 14. Class 42.

Comptoir des Textiles Artificiels, Paris, France. Textile fabrics. Serial No. 632,662, July 14. Class 42.

Con-Cor Paint Company, Kansas City, Mo. Protective, heavy bodied oil base coating. Serial No. 638,793, July 14. Class 16.

Consolidated Sewing Machine and Supply Co., Inc., New York, N. Y. Garment trimming machines. Serial No. 633,568, July 14. Class 23.

Continental Paper Grading Company, Chicago, Ill. Unwoven fabric made from all cotton fibres. Serial No. 625,343, July 14. Class 1.

Cowiche Growers, Inc., Cowiche, Wash. Fresh apples. Serial No. 641,369, July 14. Class 46.

Crest Foods Co., Ashton, Ill. Preparation, including nonfat milk solids. Serial No. 622,144, July 14. Class 46.

Crown Cork & Seal Company, Inc., Baltimore, Md. Decorated metal container caps. Serial No. 641,716, July 14. Class 50.

Cullman Wheel Company, Chicago, Ill. Sprocket wheels. Serial No. 632,156, July 14. Class 23.

Curtis, Helene, Industries, Inc., Chicago, Ill. Neutralizer for permanent waves. Serial No. 622,070, July 14. Class 51.

Daubmeyer, Dewey C., doing business as Riviera Lamps, Fort Lauderdale, Fla. Electric lamps. Serial No. 638,901, July 14. Class 21.

Dearborn Supply Company, Chicago, Ill. Astringent powder and astringent cream. Serial No. 640,917, July 14. Class 51.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 635,350, July 14. Class 42.

Demp-Nock Company, The: *See*—
Dempnock, John, Jr.

Dempnock, John, Jr., doing business as The Demp-Nock Company, Van Dyke, Mich. Pressure sensitive stencils. Serial No. 636,121, July 14. Class 37.

Dennis, W. J., & Company, Chicago, Ill. Weather strip. Serial No. 590,860, July 14. Class 12.

De Vorn Displays Corporation, Cleveland, Ohio. Portable breakdown shipping cases. Serial No. 576,960, July 14. Class 2.

Diadust Corporation, Manhasset, N. Y. Detergents. Serial No. 616,591, July 14. Class 52.

Diamond Saw Works, Inc., Buffalo, N. Y. Metal cutting saw blades and frames. Serial No. 643,541, July 14. Class 23.

Dickey Manufacturing Co., The, Toledo, Ohio. Awnings, banners, flags, etc. Serial No. 621,547, July 14. Class 50.

DoAll Company, The, Des Plaines, Ill. Lubricant and coolant. Serial No. 630,398, July 14. Class 15.

Dominion Tar & Chemical Company, Limited, Montreal, Quebec, Canada, assignee of Standard Chemical Company, Limited. Sodium carboxy methyl cellulose used as a thickening agent for foodstuffs. Serial No. 592,949, July 14. Class 46.

Dowzer Electric Machinery Works, Inc., Mount Vernon, Ill. Rebuilding, rewinding, and repairing of electric motors and transformers for others. Serial No. 640,108, July 14. Class 103.

Drapo Fabrics, Inc., New York, N. Y. Canvas and wool interlining fabrics. Serial No. 641,674, July 14. Class 42.

Duluth Universal Milling Company, Duluth, Minn. Durum wheat flour. Serial No. 607,665, July 14. Class 46.

Duraloom Carpet Mills, Inc., New York, N. Y. Textile carpets. Serial No. 641,703, July 14. Class 42.

Eberly, John A., Inc., Mohnton, Pa. Knitting machine parts. Serial No. 591,919, July 14. Class 23.

Econaway Manufacturing Co.: *See*—
Econaway Manufacturing Company.

Econaway Manufacturing Company, also known as Econaway Manufacturing Co., Bellevue, Mich. Belt splicing unitary apparatus. Serial No. 616,764, July 14. Class 23.

Emmer, J. Witz, doing business under the name of The Surfluoricide Co., New Iberia, La. Solution for preventing decay of the teeth. Serial No. 630,925, July 14. Class 18.

Essex Wire Corporation, Detroit, Mich. Electrical plugs. Serial No. 601,204, July 14. Class 21.

Eutectic Welding Alloys Corporation, New York, N. Y. Metallic welding electrodes. Serial No. 641,134, July 14. Class 14.

Evans Bellhouse Limited, Manchester, England. Nonmetallic protective packing cases. Serial No. 629,659, July 14. Class 2.

F. and M. Distributing Company, Little Rock, Ark. Prophylactics. Serial No. 635,176, July 14. Class 44.

Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Bimetallic articles, namely, internal combustion engines, etc. Serial No. 641,546, July 14. Class 23.

Family Shopper, Inc., New York, N. Y. Periodical publications. Serial No. 633,973, July 14. Class 38.

Fansteel Metallurgical Corporation, North Chicago, Ill. Tantalum, tungsten, molybdenum and columbium; etc. Serial No. 639,623, July 14. Class 14.

Fawick Flexi-Grip Co., Akron, Ohio. Hand grips for golf clubs and other implements of sport. Serial No. 636,560, July 14. Class 22.

Fearn Foods Inc., Franklin Park, Ill. Soups and soup bases and soup concentrates, etc. Serial No. 615,824, July 14. Class 46.

Ferro Electric Products Inc., Kirkland, Ill. Television antennae. Serial No. 623,597, July 14. Class 21.

Fingerprint, Incorporated, Milwaukee, Wis. Fingerprint machine and apparatus. Serial No. 633,451, July 14. Class 26.

Fisher, Andrew, Cycle Co., Inc., New York, N. Y. Bicycles. Serial No. 635,877, July 14. Class 19.

Flotill Products, Inc., Stockton, Calif. Canned dietetic food products. Serial No. 631,858, July 14. Class 46.

Foil Enterprises: *See*—
Gannon, Donn H.

Fox, Oscar, Los Angeles, Calif. Jeweler saw blades. Serial No. 625,415, July 14. Class 23.

Freeman Clothing Company, Chicago, Ill. Men's clothing. Serial No. 627,430, July 14. Class 39.

Fries, Ruth K., assignee: *See*—
Tanners' Council of America, Inc.

Fruit Products Corporation, New York, N. Y. Frozen confections, and liquid concentrates. Serial No. 633,844, July 14. Class 46.

Gannon, Donn H., doing business under the fictitious name and style of Foil Enterprises, Mill Valley, Calif. Aluminum foil. Serial No. 639,468, July 14. Class 14.

Garden City Plating & Mfg. Co., Chicago, Ill. Sliding door sheaves, door tracks, door rollers, etc. Serial No. 613,841, July 14. Class 13.

General Flavoring Extract Co.: *See*—
Greiser, Lewis C.

General Precision Laboratory Incorporated, Pleasantville, N. Y. Electrical generators, television cameras, television camera control units, etc. Serial No. 635,960, July 14. Class 21.

Gering Products, Inc., Kenilworth, N. J. Plastic mix. Serial No. 632,367, July 14. Class 6.

Gilbert Paper Company, Menasha, Wis. Bond paper and copy and writing paper. Serial No. 636,929, July 14. Class 37.

Globe-Union Inc., Milwaukee, Wis. Electronic filter and by-pass units. Serial No. 638,300, July 14. Class 21.

Goldstein, Jeff, Inc., New York, N. Y. Textile fabrics. Serial No. 641,721, July 14. Class 42.

Goodman & Theise, Inc., New York, N. Y. Piece goods. Serial No. 618,576, July 14. Class 42.

Green Thumb Products, Toledo, Ohio. Fertilizer, soil conditioners, amenders and correctives. Serial No. 635,473, July 14. Class 10.

Greiser, Lewis C., doing business as General Flavoring Extract Co., Cincinnati, Ohio. Non-alcoholic, noncereal, maltless beverages. Serial No. 636,704, July 14. Class 45.

Gretter Features: *See*—
Gretter, Joseph C.

Gretter, Joseph C., doing business as Gretter Features, Wilton and Norwalk, Conn. Newspaper feature. Serial No. 640,211, July 14. Class 38.

Grosjean, C. E., Rice Milling Co., San Francisco, Calif. Rice. Serial No. 585,278, July 14. Class 46.

Gusmer, A., Inc., Hoboken, N. J. Pitch, pitch-like goods. Serial No. 623,276, July 14. Class 1.

Haik, Victor E., Mexico D. F., Mexico. Brassières and garter belts. Serial No. 630,673, July 14. Class 39.

Hancock Iron Works, Pontiac, Mich. Outdoor fireplace units. Serial No. 640,458, July 14. Class 34.

Hang-Over Company, The, Chicago, Ill. Fabric strap having snap fasteners. Serial No. 630,535, July 14. Class 40.

Harwood Co., The, Farmingdale, N. J. Poultry watering fountains. Serial No. 640,041, July 14. Class 13.

Hedwin Corporation, Baltimore, Md. Plastic table place mats and plastic mats for beverage glasses. Serial No. 622,300, July 14. Class 50.

Hempel's, J. C., Skibsfarvefabrik, A/S, Copenhagen, Denmark. Ready mixed and anti-corrosive paints. Serial No. 629,798, July 14. Class 16.

Hempel's, J. C., Skibsfarvefabrik, A/S, Copenhagen, Denmark. All sorts of paints and varnishes. Serial No. 629,799, July 14. Class 16.

Hempel's, J. C., Skibsfarvefabrik, A/S, Copenhagen, Denmark. All sorts of paints and varnishes. Serial No. 630,192, July 14. Class 16.

Heyman, S. & S., Ltd., New York, N. Y. Meats and meat products, dressed fowl. Serial No. 582,353, July 14. Class 46.

Hickok Manufacturing Co., Inc., Rochester, N. Y. Braces. Serial No. 549,251, July 14. Class 39.

Hi-Life Packing Company, Chicago, Ill. Canned dog food and canned cat food. Serial No. 644,303, July 14. Class 46.

Hollander, A., & Son, Inc., Newark, N. J. Dressing, dyeing, blending of furs. Serial No. 588,299, July 14. Class 106.

I-T-E Circuit Breaker Company, assignee: See—
Railway & Industrial Engineering Co.

Imperial Chemical Industries Limited, London and Millbank, London, England. Lime, cement, plaster, etc. Serial No. 594,781, July 14. Class 12.

Inspectors Sea Food Co.: *See*—
Burcham, Gouley N.

International Harvester Company, Chicago, Ill. Refrigeration packaging products—namely, plastic film and cellophane bags. Serial No. 581,959, July 14. Class 2.

International Nickel Company, Inc., The, New York, N. Y. Rolled carbon-bearing nickel anode bars. Serial No. 637,826, July 14. Class 14.

International Paint Company, Inc., New York, N. Y. Ready mixed paints. Serial No. 605,794, July 14. Class 16.

International Telephone and Telegraph Corporation, New York, N. Y. Descriptive brochures and handbooks. Serial No. 638,489, July 14. Class 38.



Iovieno, Albert J., doing business as Allied Hardware & Stamping Co., New Haven, Conn. Electrical outlet boxes. Serial No. 641,450, July 14. Class 21.

Isaly Dairy Company, The, Youngstown, Ohio. Pasteurized, homogenized, skim milk. Serial No. 620,103, July 14. Class 46.

Jennings Musical Instruments Limited, Dartford, Kent, England. Portable electronic music tone reproducing keyboard instrument. Serial No. 634,596, July 14. Class 36.

Johnson & Johnson, New Brunswick, N. J. Combs. Serial No. 640,741-2, July 14. Class 40.

Johnson, S. C., & Son, Inc., Racine, Wis. Cleaning and polishing preparation. Serial No. 643,491, July 14. Class 4.

Joslyn Mfg. and Supply Co., Chicago, Ill. Complete pole line equipment, circuit protective equipment and parts thereof, etc. Serial No. 572,744, July 14. Class 21.

Kated Company, New York, N. Y. Entertainment service. Serial No. 627,192, July 14. Class 107.

Kaye-Halbert Corporation, Culver City, Calif. Television receiving sets. Serial No. 638,958, July 14. Class 21.

Kentile, Inc., Brooklyn, N. Y. Floor sweeping composition with incidental polishing properties. Serial No. 639,176, July 14. Class 4.

Kentile, Inc., Brooklyn, N. Y. Asphalt primer coatings. Serial No. 639,178, July 14. Class 16.

Kenyon Piece Dyeworks, Inc., The, Kenyon, R. I. Dyeing and printing piece goods. Serial No. 632,989, July 14. Class 106.

Keuffel & Esser Company, Hoboken, N. J. Glass tracing cloth and glass reproduction cloth. Serial No. 620,345, July 14. Class 37.

Knowles, James H., Centralia, Wash. Dressed poultry. Serial No. 612,127, July 14. Class 46.

Kord Manufacturing Co. Inc., New York, N. Y. Electric fans. Serial No. 641,383, July 14. Class 21.

Kretter, P., & Son, Inc., Flushing, N. Y. Constructing and repairing industrial and residential buildings. Serial No. 624,089, July 14. Class 103.

Lake Chemical Co., also doing business as Markal Company, assignor to The Markal Co., Chicago, Ill. Marking implements. Serial No. 485,089, July 14. Class 37.

Lakeside Central Company, Chicago, Ill. Writing tablets, note and composition books, etc. Serial No. 638,542, July 14. Class 37.

Lakeside Central Company, Chicago, Ill. Mailing envelopes. Serial No. 638,543, July 14. Class 37.

La Pointe-Plascomold Corporation, The, Windsor Locks, Conn. Antennas. Serial No. 625,535, July 14. Class 21.

Leidsche Wolspinnerij N. V., Leiden, Netherlands. Woolen, cotton, and mixed knitting yarns. Serial No. 632,253, July 14. Class 43.

Leitz, E., Inc., New York, N. Y. Periodic publication. Serial No. 631,109, July 14. Class 38.

Lenthéric Incorporated, New York, N. Y. Spiral combs. Serial No. 578,982, July 14. Class 40.

Litt & Co., New York, N. Y. Women's, misses' and juniors' dresses, blouses, skirts, etc. Serial No. 639,943, July 14. Class 39.

Los Angeles Smoking & Curing Co., Los Angeles, Calif. Canned, spiced, smoked, salted, and barbecued fish, herring, fresh salmon roe caviar, etc. Serial No. 642,038, July 14. Class 46.

MacDonald, D. K., & Company, Inc., Seattle, Wash. General insurance brokerage services. Serial No. 634,477, July 14. Class 102.

MacKay, Kenneth H., doing business as Steady Manufacturing Company, Ocala, Fla. Small paper boxes and paper holders. Serial No. 639,229, July 14. Class 2.

Maginnis, Charles M., doing business as Charles of New Orleans, Fort Worth, Tex. Salad dressings and remoulade sauce. Serial No. 617,620, July 14. Class 46.

Make It Snow, Inc., assignor to Boyle-Midway Inc., New York, N. Y. Pressure propelled paint. Serial No. 620,784, July 14. Class 16.

Mallory Electric Corporation, Detroit, Mich. Ignition coils and ignition distributors. Serial No. 641,193, July 14. Class 21.

Mangelsdorf, Ed. F., & Bro., Inc., St. Louis, Mo. Unpopped popcorn, popcorn popping oil, popcorn salt, etc. Serial No. 631,112, July 14. Class 46.

Manhattan Shirt Company, The, New York, N. Y. Buttons. Serial No. 641,625, July 14. Class 40.

Marin, Francisco C. T., Valencia, Spain. Sweet capsicums, fresh tomatoes, canned tomato puree, etc. Serial No. 591,828, July 14. Class 46.

Marion Creamery & Poultry Company, Portland, Oreg. Frozen berries and frozen vegetables. Serial No. 618,894, July 14. Class 46.

Markal Company: *See*—
Lake Chemical Co.

Markal Co., The, assignee: *See*—
Lake Chemical Co.

Markal Co., The, Chicago, Ill. Crayon-like marking implements. Serial No. 623,730, July 14. Class 37.

Market Metal Products, Youngstown, Ohio. Mirror supporting fixture. Serial No. 637,932, July 14. Class 13.

Marshall-Wells Company, Duluth, Minn. Laundry washing machines and laundry dryers. Serial No. 642,677, July 14. Class 24.

Martin-Senour Company, The, Chicago, Ill. Ready mixed, custom mixed, and semi-paste paints, enamels, stains, etc. Serial No. 638,427, July 14. Class 16.

Martinson, Jos., & Co., Inc., New York, N. Y. Coffee. Serial No. 635,481, July 14. Class 46.

Maspeth Telephone & Radio Corporation, Brooklyn, N. Y. Telephone, telegraph and teletype apparatus. Serial No. 637,661, July 14. Class 21.

Master Artist Materials, Inc., New York, N. Y. Oil painting kits. Serial No. 634,204, July 14. Class 50.

McCampbell & Company, Inc., New York, N. Y. All cotton sports denim, a fabric. Serial No. 628,363, July 14. Class 42.

Meat Industry Suppliers, Inc., Chicago, Ill. Seasoning. Serial No. 631,430, July 14. Class 46.

Mergenthaler Linotype Company, Brooklyn, N. Y. Metal casting machines. Serial No. 621,218, July 14. Class 23.

Mid-State Products Company, Cleveland, Ohio. Toothpaste dispensers. Serial No. 634,205, July 14. Class 13.

Mills Manufacturing Corporation, New York, N. Y. Shoulder strap cushion attachment. Serial No. 576,345, July 14. Class 40.

Milwhite Company, Inc., The, Houston, Tex. Materials for use in making drilling muds, namely, sawdust, etc. Serial No. 627,347, July 14. Class 1.

Modern Sales Company, Los Angeles, Calif. Carbonated beverage dispenser. Serial No. 640,949, July 14. Class 13.

National Plastic Corporation, New York, N. Y. Lazy susans. Serial No. 630,544, July 14. Class 13.

Newnan Cotton Mills, Newnan, Ga. Textile fabrics. Serial No. 641,148, July 14. Class 42.

Nixon & Company (Nebraska), Omaha, Nebr. Molasses stock feed. Serial No. 587,578, July 14. Class 46.

Norrross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals, etc. Serial No. 631,118, July 14. Class 38.

Northrop Aircraft, Inc., Hawthorne, Calif. Compositions for application to interfaces of optical elements to form light absorbing films, etc. Serial No. 643,239, July 14. Class 6.

Ohmite Manufacturing Company, Chicago, Ill. Electrical circuit control elements. Serial No. 625,434, July 14. Class 21.

Olympia Büromaschinenwerke A. G., Wilhelmshaven, Germany. Calculating machines. Serial No. 624,521, July 14. Class 26.

Ostrow Textile Co., Ltd., New York, N. Y. Blankets. Serial No. 640,646, July 14. Class 42.

Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial Nos. 639,710–11, July 14. Class 38.

Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial No. 641,960, July 14. Class 38.

Parker, Mitchell, doing business under the fictitious name of Mitchell Parker Manufacturing Company, Sharpsburg, Pa. Imitation candles. Serial No. 601,938, July 14. Class 34.

Parker, Mitchell, Manufacturing Company: *See*—
Parker, Mitchell.

Paull, Frank J., doing business as Sani-Septic Chemical Company, Cleveland, Ohio. Cleaning compound. Serial No. 605 228, July 14. Class 52.

Pell-Bari Farms, Inc., Woodstock, Ill. Partially printed record books. Serial No. 637,397, July 14. Class 37.

Pennsylvania Farms Hatchery, Inc., Lewistown, Pa. Live chickens, fresh eggs, and baby chicks. Serial No. 637,077, July 14. Class 1.

Pepperell Manufacturing Company, Boston, Mass. Blankets. Serial No. 641,860, July 14. Class 42.

Perlite of Houston, Inc., Houston, Tex. Expanded volcanic glass in a semi-powder state. Serial No. 618,124, July 14. Class 1.

Persons, Ralph H., doing business as American Vacuum Company, Chicago, Ill. Electrically operated vacuum cleaners. Serial No. 628,050, July 14. Class 21.

Pessl, Helene, Inc., New York, N. Y. Comb, mirror, and brush sets, and comb and hand mirror sets. Serial No. 641,378, July 14. Class 40.

Phelan, George W., Union City, N. J. Dental abrasive disc holders and dispensers. Serial No. 630,437, July 14. Class 44.

Pillsbury Mills, Inc., Minneapolis, Minn. Prepared mixture, the principal ingredients of which are wheat flour, sugar, etc. Serial No. 635,054, July 14. Class 46.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint brushes. Serial No. 641,327, July 14. Class 29.

Plant Products Corporation, Blue Point, N. Y. Spraying and dusting pesticidal composition. Serial No. 628,710, July 14. Class 6.

Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and vegetables. Serial No. 641,328, July 14. Class 46.

Premier Dental Products Co., Philadelphia, Pa. Disposable paper towels and paper bracket-table covers. Serial No. 638,659, July 14. Class 37.

Princeton Knitting Mills, Inc., New York, N. Y. Knitted fabrics. Serial No. 638,974, July 14. Class 42.

Priamo Safety Corporation, Huntingdon, Pa. Materials sold as a unit—namely, paint and small light refracting materials. Serial No. 636,431, July 14. Class 16.

Protective Coatings, Inc., Tampa, Fla. Liquid neoprene maintenance coatings, and vinyl protective coatings. Serial No. 631,176, July 14. Class 16.
Quaker Lace Company, Philadelphia, Pa. Tablecloths and bedspreads. Serial No. 635,718, July 14. Class 42.
Quincy Stove Manufacturing Company, The, Quincy, Ill. Portable ranges, circulator space heaters, and furnaces. Serial No. 641,573, July 14. Class 34.
Railway & Industrial Engineering Co., Greensburg, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Electrical apparatus and switch gear, switch gear operating devices, etc. Serial No. 600,915, July 14. Class 21.
Ransburg, Harper J., Co., Inc., Indianapolis, Ind. Metal receptacles. Serial No. 587,562, July 14. Class 2.
Record Guild of America Inc., The, New York, N. Y. Children's grooved phonograph records. Serial No. 637,792, July 14. Class 36.
Reflectone Corporation, The, Stamford, Conn. Instruments for measuring thrust forces. Serial No. 636,805, July 14. Class 26.
Rejafix Limited, London, England. Printing and marking inks. Serial No. 634,001, July 14. Class 11.
Reso, Harry, New York, N. Y. Artists' brushes. Serial No. 605,680, July 14. Class 29.
Reverman Enterprises, Columbus, Ohio. Chemical compounds. Serial No. 634,860, July 14. Class 6.
Richmond Broom Company, Richmond, Va. Household brooms. Serial No. 600,509, July 14. Class 29.
Riegel Paper Corporation, New York, N. Y. Kraft, sulphite, and glassine paper. Serial No. 634,344, July 14. Class 37.
Riviera Lamps: *See*—
Daubmeyer, Dewey C.
Robbins & Myers, Inc., Springfield, Ohio. Industrial ventilating fans. Serial No. 628,877, July 14. Class 34.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Shaft seals for preventing leakage of fluid around movable shafts. Serial No. 628,010, July 14. Class 35.
Rogers Plastic Corporation, West Warren, Mass. Coasters, flower pots, dishes, etc. Serial No. 595,415, July 14. Class 2.
Rosenberg, Harry, doing business under the name Cardinal Neckwear, New York, N. Y. Men's neckwear. Serial No. 625,822, July 24. Class 39.
Rothe, Walter F., doing business as The Universal Calendar Company, Washington, D. C. Wall calendars. Serial No. 597,168, July 14. Class 38.
Royal Rubber Company, The, Akron, Ohio. Textile carpets and carpeting. Serial No. 641,090, July 14. Class 42.
Rubinstein, Charles L., doing business as Ruby Products Co., Milwaukee, Wis. Paper products. Serial No. 626,749, July 14. Class 37.
Ruby Products Co.: *See*—
Rubinstein, Charles L.
Rushmore, Walter C., doing business as Travel Kader and as American National Travelers Service, Denver, Colo. Travel services. Serial No. 594,996, July 14. Class 105.
Sachs Quality Stores, Inc., New York, N. Y. Bedroom furniture, living-room furniture, dining-room furniture, etc. Serial No. 589,045, July 14. Class 32.
Saegertown Ginger Ale Co., Saegertown, Pa. Nonalcoholic malt less soft drinks. Serial No. 628,960, July 14. Class 45.
Sani-Septic Chemical Company: *See*—
Paull, Frank J.
Scanlan, Elizabeth S., doing business as Aeroplane Tackle Manufacturing Co., Denver, Colo. Fishing lures. Serial No. 641,576, July 14. Class 22.
Scour-Tex Proprietary Limited, Melbourne, Victoria, Australia. Pads and mops of abrasive materials. Serial No. 622,779, July 14. Class 4.
Selling Research, Inc., New York, N. Y. Marketing research and store auditing service. Serial No. 626,752, July 14. Class 101.
Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. Serial No. 633,879, July 14. Class 32.
Sewing Supplies, Inc., Chicago, Ill. Electric sewing machine motors and electric sewing machine lights. Serial No. 631,258, July 14. Class 21.
Shaver, Lula A., Middletown, N. Y. Books. Serial No. 639,961, July 14. Class 38.
Sherwin-Williams Company, The, Cleveland, Ohio. Sealer for metal surfaces in the nature of a paint. Serial No. 641,339, July 14. Class 16.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics. Serial No. 630,735, July 14. Class 42.
Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Synthetic plastic material. Serial No. 621,700, July 14. Class 1.
Solin Sporting Goods Company, New York, N. Y. Baseballs, baseball gloves, baseball bats, etc. Serial No. 623,085, July 14. Class 22.
Southern Instruments Limited, Fernhill, Hawley, Camberley, Surrey, England. Assembled electronic amplifier units for use with measuring and testing instruments, etc. Serial No. 620,236, July 14. Class 26.
Speer Carbon Company, St. Marys, Pa. Fixed carbon resistors, non-conductive coil forms, and iron core coil forms. Serial No. 641,156, July 14. Class 21.
Standard Brands Incorporated, New York, N. Y. Coffee. Serial No. 644,464, July 14. Class 46.
Standard Chemical Company, Limited, assignee: *See*—
Dominion Tar & Chemical Company, Limited.
Star Woolen Co., Cohoes, N. Y. Crimped nylon batting. Serial No. 638,019, July 14. Class 1.
Steady Manufacturing Company: *See*—
MacKay, Kenneth H.
Steak n Shake, Inc., Bloomington, Ill. Ground meat, baked ham, ground meat sandwiches, etc. Serial No. 567,054, July 14. Class 46.
Stensgaard, W. L., and Associates, Inc., Chicago, Ill. Sheets formed of ground wood or other wood particles, etc. Serial No. 627,906, July 14. Class 1.
Sterling Pulp & Paper Company, Eau Claire, Wis. Waxed papers, paper towels, paper toilet tissue, etc. Serial No. 641,098, July 14. Class 37.
Stimpson, Edwin B., Company, Inc., Brooklyn, N. Y. Screws, washers, rivets, rivet crowns, etc. Serial No. 551,415, July 14. Class 13.
Stokes, Donald C., doing business as Stokes Institute of Hair Technology, Newark, N. J. Hair waving lotions. Serial No. 566,307, July 14. Class 51.
Stokes Institute of Hair Technology: *See*—
Stokes, Donald C.
Stone, Bob, Cordage Company, The, Charlton, Iowa. Binder twine and baler twine. Serial No. 642,319, July 14. Class 7.
Strickland, J., & Co., Memphis, Tenn. Face cream. Serial No. 641,870, July 14. Class 51.
Surfluoride Co., The: *See*—
Emmer, J. Witz.
Tanners' Council of America, Inc., assignor to Ruth Kerr Fries, New York, N. Y. Section of publication. Serial No. 640,174, July 14. Class 38.
Tar-Gon Products, Inc., Chicago, Ill. Preparation to be used as a windshield glare eliminator. Serial No. 641,400, July 14. Class 6.
Temple Lab Inc., Brooklyn, N. Y. Automobile seats of slat construction adapted to be placed over the regular seat, and bed mats of slat construction adapted to be placed over the regular mattress. Serial No. 630,737, July 14. Class 32.
Tourex Company of America, Inc., New York, N. Y. Providing and arranging credit facilities to customers, etc. Serial No. 639,087, July 14. Class 102.
Tozai Koeki Kaisha, Ltd., Tokyo, Japan. Canned tuna fish, crabmeat, Mandarin oranges, etc. Serial No. 641,239, July 14. Class 46.
Tragasol Products Limited, Hooton Wirral, England. Sizing and finishing preparations for use in manufacturing or processing textiles, etc. Serial No. 639,201, July 14. Class 6.
Transit Van Corporation, Redwood City, Calif. Transferable non-self-propelled cargo containers adapted to be mounted on trailer trucks, railway flatcars, etc. Serial No. 594,734, July 14. Class 19.
Travel Kader: *See*—
Rushmore, Walter C.
Tucker, R. Clark, Baltimore, Md. Book. Serial No. 639,795, July 14. Class 38.
Turn, Inc., New York, N. Y. Spectacles and spectacle frames. Serial No. 600,263, July 14. Class 26.
Turkey Bend Farm, Osage Beach, Mo. Boned fresh chicken. Serial No. 626,596, July 14. Class 46.
U-Neek Manufacturing Co.: *See*—
Chambers, Harry C.
Union Metal Manufacturing Company, The, Canton, Ohio. Drop bottom materials handling stacking boxes. Serial No. 615,954, July 14. Class 2.
United Biscuit Company of America, doing business under the style name of Chicago Carton Company, Chicago, Ill. Collapsible display and holding racks. Serial No. 623,687, July 14. Class 2.
United Elastic Corporation, Easthampton, Mass. Wide elastic fabrics. Serial No. 633,280, July 14. Class 42.
United Elastic Corporation, Easthampton, Mass. Narrow elastic braids. Serial No. 633,800, July 14. Class 40.
United Grocers, Ltd., San Francisco, Calif. Column for publications. Serial No. 637,895, July 14. Class 38.
United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics. Serial No. 612,775, July 14. Class 106.
United Wallpaper, Inc., Chicago, Ill. Color pigments for use in the manufacture of oil paints and water emulsion latex paints. Serial Nos. 630,463–4, July 14. Class 16.
United States Naval Academy Alumni Association Inc., Annapolis, Md. Periodical publication. Serial No. 609,897, July 14. Class 38.
United States Rubber Company, New York, N. Y. Shoe soles. Serial No. 602,234, July 14. Class 39.
United States Rubber Company, New York, N. Y. Woven textile fabric. Serial No. 615,915, July 14. Class 42.
Universal Calendar Company, The: *See*—
Rothe, Walter F.
Vance, Sanders & Company, Boston, Mass. Providing for regular purchases of securities by investors. Serial No. 612 713, July 14. Class 101.
Vaughan Crane Company Limited, The, West Gorton, Manchester, England. Electric controls. Serial No. 611,624, July 14. Class 21.
Vaughan Crane Company Limited, The, West Gorton, Manchester, England. Electric controls. Serial No. 616 259, July 14. Class 21.
Victaulic Company of America, Union, N. J. T wrenches, pipe wrenches, open end wrenches, etc. Serial No. 641,876, July 14. Class 23.



Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Indostrie, G. m. b. H., Munich, Bavaria, Germany. Balloon, airplane, sailcloth, umbrella, lace, and gauze fabrics, etc. Serial No. 635,570, July 14. Class 42.
Wallach's, Inc., New York, N. Y., and elsewhere. Hats. Serial No. 637,468, July 14. Class 39.
Walter Paper Company, Inc., Miami, Fla. School fillers and tablets, composition books, and pencils. Serial No. 631,769, July 14. Class 37.
Ward-Stilson Company, The, Anderson, Ind. Collars. Serial No. 625,506, July 14. Class 39.
Warner, Lansing B., Incorporated, Chicago, Ill. Underwriting of fire and casualty insurance. Serial No. 615,070, July 14. Class 102.
Warren Foundry & Pipe Corp., Phillipsburg, N. J. Cast iron pipe. Serial No. 608,185, July 14. Class 13.
Warren Tool Corporation, Howland, Ohio. Hand tools. Serial No. 588,068, July 14. Class 23.
Wheel Trueing Tool Company, Detroit, Mich. Diamond impregnated tools. Serial No. 617,738, July 14. Class 23.
Willow Shirt Corporation, The, New Haven, Conn. Men's and boys' dress shirts. Serial No. 636,832, July 14. Class 39.
Winebrenner, D. E., Co., Inc., Hanover, Pa. Concentrate used in making malt less soft drinks. Serial No. 631,453, July 14. Class 45.
Wittek Manufacturing Co., Chicago, Ill. Hose clamps. Serial No. 640,089, July 14. Class 13.
Wood, Carol, Ocean Beach, San Diego, Calif. Hair curling comb. Serial No. 595,182, July 14. Class 40.
Worthmor Ice Cream Co., Lake Worth, Fla. Ice cream. Serial No. 638,029, July 14. Class 46.
Yolande Corporation, New York, N. Y. Panties. Serial No. 640,767, July 14. Class 39.
Zalkind, Joseph, New York, N. Y. Office machines. Serial No. 632,544, July 14. Class 23.
Zellwood Fruit Distributors, Inc., Zellwood, Fla. Fresh citrus fruit and water melons. Serial No. 610,535, July 14. Class 46.
Zemis, Charles A., Lawrence, Mass. Safety pins. Serial No. 631,838, July 14. Class 40.

# LIST OF REGISTRANTS OF TRADE-MARKS

Abele, Walter L., doing business as Martin Products, Wilmette, Ill. Preparation for use as a household deodorant and disinfectant. 577,295, July 14; Serial No. 625,947, published Apr. 28, 1953. Class 6.
Ainsworth Shoe Company, The, Toledo, Ohio. Men's, women's, and children's footwear. 577,404, July 14; Serial No. 635,618, published Apr. 21, 1953. Class 39.
Alexander Brothers Belting Company, Philadelphia, Pa. Textile loom check straps. 577,343, July 14; Serial No. 631,840, published Mar. 24, 1953. Class 23.
Allied Mills, Inc.: *See*—
Soya Products, Inc.
Altman, B., & Co., New York, N. Y. Children's shoes. 577,393, July 14; Serial No. 634,830, published Apr. 21, 1953. Class 39.
Aluminium Caribe Incorporated, New Orleans, La. Aluminum roofing and siding, aluminum windows, aluminum awnings, etc. 577,416, July 14; Serial No. 637,293, published Apr. 21, 1953. Class 12.
Alvin Corporation, The, Providence, R. I. Sterling silver and silver-plated flatware, hollowware and table cutlery. 577,420, July 14; Serial No. 637,678, published Apr. 14, 1953. Class 28.
American Batter Corporation, Hobbs, N. Mex. Prepared mix for making a batter. 577,461, July 14; Serial No. 625,570. Class 46.
American Bosch Corporation, Springfield, Mass. Igoition and starting apparatus for internal combustion engines and electric lighting systems for moving vehicles, etc. 577,328, July 14; Serial No. 630,565, published Apr. 7, 1953. Class 21.
American Cyanamid Company, New York, N. Y. Synthetic tanning agent. 577,431, July 14; Serial No. 640,661, published Apr. 28, 1953. Class 6.
American Cystoscope Makers, Inc.: *See*—
Comprex Oscillator Corporation.
American Gum Products Company: *See*—
American Gum Products Co.
American Gum Products Co., Boston, Mass., to American Gum Products Company, New York, N. Y. Manufactured gum. 92,500, re-renewed July 15, 1953. O. G. July 14. Class 5.
American-Marietta Company: *See*—
Marietta Paint & Color Co., The.
American Potash & Chemical Corporation, New York, N. Y. Borax; boric acid; bromides, etc. 577,317, July 14; Serial No. 629,470, published Apr. 28, 1953. Class 6.
Americus, William: *See*—
Harris, Sidney, and Americus.
Ames Harris Neville Co., San Francisco, Calif. Sporting goods. 577,354, July 14; Serial No. 632,461, published Apr. 28, 1953. Class 22.
Anderson Coach Company, East Tawas, Mich. Platform assemblies particularly adapted for use as the floor panel of portable compartments such as house trailers. 577,273, July 14; Serial No. 624,381, published Apr. 28, 1953. Class 19.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Cosmetic cream. 309,323, Jan. 9, 1934. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Sunburn cream. 311,947, Apr. 10, 1934. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Preparation for application to the legs and arms to cover blemishes, etc. 311,948, Apr. 10, 1934. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Massage rollers. 320,263, Dec. 18, 1934. Republished July 14. Class 44.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Deodorants. 320,225, Dec. 18, 1934. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Hair bandeaux. 324,099, May 14, 1935. Republished July 14. Class 40.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Suntan oil, sun-proof cream, bronze liquid lotion. 342,994, Feb. 9, 1937. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Nail polish. 353,193, Dec. 28, 1937. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Eyelash grower. 355,895, Apr. 5, 1938. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Face creams. 355,904, Apr. 5, 1938. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Nail polishes. 358,616, July 19, 1938. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipstick, face powder, perfume. 361,998, Nov. 8, 1938. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Powder, lipstfcks, cheek rouge, etc. 365,009, Feb. 21, 1939. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Lipstick, rouge and nail polish. 369,736, Aug. 1, 1939. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Toilet cream or jelly. 371,473, Sept. 26, 1939. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Toilet cream. 381,026, Sept. 10, 1940. Republished July 14. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Face powder. 382,029, Oct. 15, 1940. Republished July 14. Class 51.
Arden, Elizabeth, Laboratories: *See*—
De Long Laboratories, Inc.
Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Bonwit Teller, Inc.
De Long Laboratories, Inc.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Ladies' handbags. 422,609, July 30, 1946. Republished July 14. Class 3.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Compacts and lipstick cases. 429,905, May 20, 1947. Republished July 14. Class 2.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Bubble bath preparation. 436,554, Feb. 10, 1948. Republished July 14. Class 51.
Argus Manufacturing Company, Chicago, Ill. Handcuffs or manacles. 303,932, renewed June 13, 1953. O. G. July 14. Class 25.
Armco Steel Corporation, Middletown, Ohio. Corrugated ferrous metal head walls, arches, backwalls, etc. 577,337, July 14; Serial No. 631,397, published Apr. 14, 1953. Class 12.
Armstrong Cork Company, Lancaster, Pa. Architectural wall panels. 577,267, July 14; Serial No. 624,118, published Apr. 21, 1953. Class 12.
Aron, J., & Company, Inc., New York, N. Y. Green coffee. 304,403, renewed July 4, 1953. O. G. July 14. Class 46.
Athletic Shoe Company, The, Chicago, Ill., assignor to A. R. Hyde & Sons Company, Cambridge, Mass. Athletic shoes. 577,186, July 14; Serial No. 603,177, published Apr. 21, 1953. Class 39.
Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oils. 305,861, renewed Aug. 22, 1953. O. G. July 14. Class 15.
Atlas Overhead Door Company, Quakertown, Pa. Doors. 444,782, July 14; Serial No. 517,884, published Nov. 2, 1948. Class 12.
Atlas Supply Company, Wilmington, Del., and Newark, N. J., to Atlas Supply Company, Newark, N. J. Cameras and sensitized films. 304,359, renewed July 4, 1953. O. G. July 14. Class 26.

Attorney General of the United States, Vested in: *See*—
Deutsche Gold- & Silber-Scheideanstalt.

Austenal Laboratories, Incorporated, New York, N. Y. Cobalt chromium alloys. 577,389, July 14; Serial No. 634,288, published Apr. 21, 1953. Class 14.

Automatic Telephone and Electric Company Limited, Liverpool, England. Electric equipment and accessories. 577,238, July 14; Serial No. 620,082, published Apr. 7, 1953. Class 21.

B. V. D. Company, Inc., The, New York, N. Y. Clothing. 577,281, July 14; Serial No. 623,581, published Mar. 31, 1953. Class 39.

Banning Electrical Products Corporation, Saginaw, Mich. Electric motors. 577,198, July 14; Serial No. 611,124, published Apr. 28, 1953. Class 21.

Barber-Colman Company: *See*—
Uni-Flo Grille Corporation.

Barbet Mills, Inc., Lexington, N. C. Cylinder knitted fabrics. 577,474, July 14; Serial No. 632,974. Class 42.

Barton, H. H., & Son Co. Inc., Philadelphia, Pa., by Behr-Manning Corporation, Troy, N. Y. Aluminum-oxide paper, electric abrasive cloth, garnet roll cloth, etc. 171,082, July 31, 1923. Republished July 14. Class 4.

Baugh, Flay F., doing business as Baugh's, Temple, Tex. Moccasins. 577,284, July 14; Serial No. 625,327, published Apr. 7, 1953. Class 39.

Baugh's: *See*—
Baugh, Flay F.

Bavarian Brewing Company Inc., Covington, Ky. Beer. 577,205, July 14; Serial No. 613,532, published Apr. 21, 1953. Class 48.

Beaux Art Crafts: *See*—
Benner, Ruth V.

Beck, A. S., Shoe Corporation, New York, N. Y. Men's and women's shoes and slippers. 577,401, July 14; Serial No. 635,456, published Apr. 21, 1953. Class 39.

Beckerman, M., & Sons, Inc., New York, N. Y. Women's shoes. 577,231, July 14; Serial No. 619,184, published Apr. 21, 1953. Class 39.

Bee Chemical Company, Chicago, Ill. Pigmented and unpigmented paints and lacquers. 577,450, July 14; Serial No. 619,443. Class 16.

Behr-Manning Corporation: *See*—
Barton, H. H., & Son Co. Inc.

Bellsey, Dave, Co. Inc., New York, N. Y. Ladies' and misses' coats. 577,282, July 14; Serial No. 625,187, published Apr. 21, 1953. Class 39.

Bemis Bro. Bag Company, St. Louis, Mo. Paper bags. 577,187, July 14; Serial No. 604,716, published Apr. 21, 1953. Class 2.

Bemis Bro. Bag Company, St. Louis, Mo. Cotton pick sacks. 577,424, July 14; Serial No. 638,057, published Apr. 21, 1953. Class 2.

Ben-Hur Products, Inc., New York, N. Y. Plastic round holders in the nature of grip combs. 577,460, July 14; Serial No. 625,577. Class 40.

Benner, Ruth V., doing business as Beaux Art Crafts, Pittsburgh, Pa. Ornamental metal scrolls. 577,440, July 14; Serial No. 600,943. Class 13.

Bennett Fireplace Corporation, to Bennett-Ireland, Inc., Norwich, N. Y. Fireplace screens. 306,788, renewed Sept. 20, 1953. O. G. July 14. Class 34.

Bennett-Ireland, Inc.: *See*—
Bennett Fireplace Corporation.

Berk, F. W., & Company, Inc., Wood-Ridge, N. J. Fungicides. 577,254, July 14; Serial No. 622,918, published Apr. 28, 1953. Class 6.

Berry Brothers, to Berry Brothers, Inc., Detroit, Mich. Varnishes. 92,782, re-renewed July 29, 1953. O. G. July 14. Class 16.

Berry Brothers, Inc.: *See*—
Berry Brothers.
Berry Brothers Ltd.

Berry Brothers Ltd., to Berry Brothers, Inc., Detroit, Mich. Substitute for linseed-oil. 93,327, re-renewed Sept. 9, 1953. O. G. July 14. Class 16.

Bigelow-Sanford Carpet Company, Inc., assignee: *See*—
Bigelow-Sanford Carpet Co., Inc.

Bigelow-Sanford Carper Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Woven pile rugs and carpets. 577,451, July 14; Serial No. 622,001. Class 42.

Black Panther Tool Company, Philadelphia, Pa. Glass cutters and parts thereof; wood scrapers; putty knives; etc. 577,214, July 14; Serial No. 615,681, published Mar. 17, 1953. Class 23.

Blake Manufacturing Corporation, Clinton, Mass., and Madison, Wis. Flashlights and parts therefor. 577,289, July 14; Serial No. 625,655, published Apr. 21, 1953. Class 21.

Bloomer Bros. Company, Newark, N. Y. Cardboard cartons. 577,366, July 14; Serial No. 633,411, published Apr. 14, 1953. Class 2.

Bloomer Bros. Company, Newark, N. Y. Egg cartons. 577,417, July 14; Serial No. 637,299, published Apr. 21, 1953. Class 2.

Blue Bell, Inc., Greensboro, N. C. Boys' dungarees. 577,455, July 14; Serial No. 624,463. Class 39.

Blue Ribbon Foods Co.: *See*—
Churngold Corporation, The.

Boardman Co., The, Oklahoma City, Okla. Deposit and collection boxes. 577,330, July 14; Serial No. 630,752, published Apr. 14, 1953. Class 2.

Boggs, H. D., Company, Ltd., Omaha, Nebr. Reinforced plastic pipe, tubing, pipe fittings, etc. 577,215, July 14; Serial No. 615,811, published Apr. 28, 1953. Class 13.

Bohemian Distributing Company, doing business as International Products Company, Los Angeles, Calif. Whiskey. 444,783, July 14; Serial No. 525,775, published Dec. 14, 1948. Class 40.

Bohemian Girl Foods, Ontario, Calif. Dill pickles, kosher style pickles, sliced butter pickles, etc. 577,262, July 14; Serial No. 623,589, published Apr. 28, 1953. Class 46.

Bonner Packing Co., Fresno, Calif. Dried fruits. 577,445, July 14; Serial No. 609,957. Class 46.

Bonwit Teller, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Preparations for the removal of superfluous hair. 341,579. Dec. 15, 1936. Republished July 14. Class 51.

Borkland, Gustave W., doing business as Borkland Manufacturing Co., Division of Borkland Laboratories, Marion, Ind. Ornaments for decorating packages, tables, etc. 577,465, July 14; Serial No. 627,248. Class 50.

Borkland Manufacturing Co., Division of Borkland Laboratories: *See*—
Borkland, Gustave W.

Bosrrom, Gustav J., doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif. Open-type flooring. 577,161, July 14; Serial No. 557,727, published Mar. 17, 1953. Class 12.

Bowater Paper Company, Inc., New York, N. Y. Strawboard cartons and woodpulp board cartons. 577,308, July 14; Serial No. 627,668, published Apr. 21, 1953. Class 2.

Bowater Paper Company, Inc., New York, N. Y. Corrugated fibreboard shipping cases with kraft outer liners, corrugated fibreboard shipping cases with chip straw outer liners, etc. 577,372, July 14; Serial No. 633,604, published Apr. 21, 1953. Class 2.

Bozeman Canning Company, Inc., Bozeman, Mont. Canned peas. 577,358, July 14; Serial No. 632,594, published Apr. 14, 1953. Class 46.

Bozeman Canning Company, Inc., Bozeman, Mont. Canned peas. 577,359, July 14; Serial No. 632,598, published Apr. 14, 1953. Class 46.

Bozeman Canning Company, Inc., Bozeman, Mont. Canned peas. 577,360, July 14; Serial No. 632,600, published Apr. 14, 1953. Class 46.

Bremner, James F., Sydney, New South Wales, Australia. Asphaltic compounds and emulsions. 577,182, July 14; Serial No. 593,646, published Mar. 31, 1953. Class 12.

Bullard, E. D., Company, San Francisco, Calif. First aid kits. 577,167, July 14; Serial No. 567,943, published Jan. 2, 1951. Class 44.

Burgess, Lena C., doing business as Strictly Georgia, Miami, Fla. Cane syrup, candied pecans, pralines, etc. 577,453, July 14; Serial No. 622,693. Class 46.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black for use in the manufacture of varnishes and lacquers. 302,707, renewed Apr. 25, 1953. O. G. July 14. Class 16.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 304,537, renewed July 11, 1953. O. G. July 14. Class 6.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Insecticides. 577,418, July 14; Serial No. 637,568, published Apr. 28, 1953. Class 6.

Calvert Distilling Co., The, New York, N. Y. Alcoholic beverages. 577,188, July 14; Serial No. 605,405, published Mar. 31, 1953. Class 49.

Calvert Distilling Co., The, New York, N. Y. Alcoholic beverages. 577,387, July 14; Serial No. 634,235, published Apr. 28, 1953. Class 49.

Camac, Inc., Minneapolis, Minn. Dessert mixes. 577,257, July 14; Serial No. 623,180, published Apr. 28, 1953. Class 46.

Capitol Piece Dye Works, Inc., New York, N. Y. Piece goods. 398,262, Oct. 20, 1942. Republished July 14. Class 42.

Carter & Parker Limited, Guiseley, England. Yarns. 303,627, May 30, 1933. Republished July 14. Class 43.

Cayce, Reginald V., San Francisco, Calif. Concrete prefabricated wall panels and posts. 577,176, July 14; Serial No. 591,912, published Mar. 18, 1952. Class 12.

Cecil Plumbing Specialties Company: *See*—
Downin, Roland W.

Chapman Dehydrater Co.: *See*—
Chapman, George C.

Chapman Frozen Foods: *See*—
Chapman, George C.

Chapman, George C., doing business under the fictitious names and styles of Chapman Dehydrater Co. and Chapman Frozen Foods, Modesto, Calif. Frozen fresh fruits and vegetables. 577,442, July 14; Serial No. 607,930. Class 46.

Charles of the Ritz: *See*—
Charles of the Ritz, Inc.

Charles of the Ritz, Inc., doing business as Charles of the Ritz, New York, N. Y. Toilet water and dusting powder. 577,277, July 14; Serial No. 624,631, published Apr. 21, 1953. Class 51.

Chemische Fabrik Griesheim, Frankfurt am Main-Griesheim, Germany. Construction elements. 577,192–3, July 14; Serial Nos. 608,971–2, published Mar. 17, 1953. Class 12.



Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Artificial shellac. 577,475, July 14; Serial No. 633,823. Class 16.

Chemische und Pharmazeutische Werk Dr. Georg Henning, G. m. b. H., Berlin-Tempelhof, Germany. Extract of skeleton-muscles. 297,424, renewed Sept. 13, 1952. O. G. July 14. Class 18.

Churngold Corporation, The, doing business as Blue Ribbon Foods Co., Cincinnati, Ohio. Food. 577,241, July 14; Serial No. 620,766, published Apr. 28, 1953. Class 46.

Cinco, Saginaw, Mich. Cotton-covered capsules containing perfume. 577,304, July 14; Serial No. 627,253, published Mar. 31, 1953. Class 51.

Cintron, Ezequiel B., doing business under the name and style of Tito's Shoe Repairs, New York, N. Y. Hair tonic. 577,274, July 14; Serial No. 624,528, published Mar. 17, 1953. Class 51.

Clinton Foods, Inc., assignee: *See*—
Snow Crop Marketers, Inc.

Colonial Co., The: *See*—
Prain, Willis A.

Colorado Fuel and Iron Company, The, to The Colorado Fuel and Iron Corporation, Denver, Colo. Fertilizer. 306,521, renewed Sept. 19, 1953. O. G. July 14. Class 10.

Colorado Fuel and Iron Corporation, The: *See*—
Colorado Fuel and Iron Company, The.

Colorado Portland Cement Company, The, by Ideal Cement Company, Denver, Colo. Water proof cement. 245,460, Aug. 14, 1928. Republished July 14. Class 12.

Columbus Wholesale Barber & Beauty Supply Co., Inc., doing business as Eudora Products Co., Columbus, Ohio. Hair tonics and hair lotions, hair dressings, and skin creams. 577,322, July 14; Serial No. 629,768, published Mar. 31, 1953. Class 51.

Comfort Equipment Company, Kansas City, Mo. Farm machinery. 577,338, July 14; Serial No. 631,460, published Mar. 24, 1953. Class 23.

Compagnie Nationale Air France, Paris, France, and New York, N. Y. Air transportation of passengers and freight. 577,481, July 14; Serial No. 630,581. Class 105.

Compressed Products Corporation, assignee: *See*—
Delicat, Inc.

Comprex Oscillator Corporation, to American Cystoscope Makers, Inc., New York, N. Y. Publication. 303,818, renewed June 6, 1953. O. G. July 14. Class 38.

Continental Screw Company, New Bedford, Mass. Screws, bolts, nuts, etc. 577,296, July 14; Serial No. 625,970, published Apr. 21, 1953. Class 13.

Cooper, O. A., Company, The, Humboldt and Beatrice, Nebr. Dry type of food supplement. 577,441, July 14; Serial No. 605,996. Class 46.

Corn Products Company, Jersey City, N. J., and New York, N. Y., to Corn Products Refining Company, New York, N. Y. Syrup. 41,117, re-renewed Sept. 15, 1953. O. G. July 14. Class 46.

Corn Products Refining Company: *See*—
Corn Products Company.

Coro, Inc., New York, N. Y. Jewelry. 577,411, July 14; Serial No. 636,348, published Apr. 14, 1953. Class 28.

Crosse & Blackwell Company, The: *See*—
Lazenby, E., & Son, Limited.

Crownhill Laboratories: *See*—
Guckenbach, Edward N.

Curtis Development & Mfg. Co., Milwaukee, Wis. Enclosed apparatus for charging and discharging electrical storage batteries and parts thereof, etc. 577,178, July 14; Serial No. 503,400, published Dec. 9, 1952. Class 21.

Cutler, H. H., Company, Grand Rapids, Mich. Pillow covers, mattress covers, and crib mattress covers. 577,443, July 14; Serial No. 608,404. Class 42.

Dache, Lilly, Inc., New York, N. Y. Women's hats, dresses, gloves, etc. 577,342, July 14; Serial No. 631,790, published Apr. 14, 1953. Class 39.

Dade Reagents, Inc., Miami, Fla. Lancets. 577,383, July 14; Serial No. 634,000, published Apr. 14, 1953. Class 44.

Dalton Film Company, Tulsa, Okla. Game cards. 577,428, July 14; Serial No. 639,361, published Apr. 28, 1953. Class 22.

Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Packaged and canned prepared fish. 577,438, July 14; Serial No. 588,166. Class 46.

Dayton Rubber Company, The, Dayton, Ohio. Vehicle storage batteries. 577,299, July 14; Serial No. 626,660, published Apr. 28, 1953. Class 21.

Dayton Rubber Company, The, Dayton, Ohio. Rubber vehicle tires. 577,312, July 14; Serial No. 628,145, published Apr. 28, 1953. Class 35.

Delicat, Inc., assignor to Compressed Products Corporation, New York, N. Y. Sanitary napkins. 577,263, July 14; Serial No. 623,594, published Apr. 14, 1953. Class 44.

De Long Laboratories, Inc., doing business as Elizabeth Arden Laboratories, and Screen and Stage Make-up by Elizabeth Arden, Ltd., Hollywood, Calif., by Elizabeth Arden Sales Corporation, New York, N. Y. Foundation cream. 338,323, Sept. 1, 1936. Republished July 14. Class 51.

Detro Manufacturing & Sales Co., Inc., Culver City, Calif. Children's toy paint sets. 577,258, July 14; Serial No. 623,272, published Apr. 28, 1953. Class 22.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Coffins. 301,117, renewed Feb. 21, 1953. O. G. July 14. Class 2.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Soaps, steel wool, washing compounds, etc. 301,118, renewed Feb. 21, 1953. O. G. July 14. Class 4.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Adhesives. 301,119, renewed Feb. 21, 1953. O. G. July 14. Class 5.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Absorbents, alteratives, analgesics, etc. 301,120, renewed Feb. 21, 1953. O. G. July 14. Class 46.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Dynamite and blasting powders and the like, matches, fireworks, etc. 301,122, renewed Feb. 21, 1953. O. G. July 14. Class 9.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Fertilizers. 301,123, renewed Feb. 21, 1953. O. G. July 14. Class 10.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Writing ink, printers' ink and colors. 301,124, renewed Feb. 21, 1953. O. G. July 14. Class 11.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Caulking and packing materials, prepared building stones, etc. 301,125, renewed Feb. 21, 1953. O. G. July 14. Class 12.

Dictaphone Corporation, Bridgeport, Conn. Electrically-operated sound recording and reproducing machines. 577,285, July 14; Serial No. 625,464, published Apr. 28, 1953. Class 21.

Dinon Corporation, The, Kansas City, Mo. Table and chair sets. 577,469, July 14; Serial No. 630,528. Class 32.

Dior, Christian, Perfumes Corp., New York, N. Y. Perfumes, toilet waters, rouge, etc. 577,253, July 14; Serial No. 622,771, published Apr. 21, 1953. Class 51.

Disston, Henry, & Sons, Inc., Philadelphia, Pa. Saws, planer knives, and circular knives. 306,052, renewed Sept. 5, 1953. O. G. July 14. Class 23.

Dobson, Paul: *See*—
Dobson, Paul A.

Dobson, Paul A., doing business as Paul Dobson, Exeter, Calif. Fresh grapes. 306,298, renewed Sept. 12, 1953. O. G. July 14. Class 46.

Dow Corning Corporation, Midland, Mich. Electrical insulatory material. 577,235, July 14; Serial No. 619,811, published Mar. 24, 1953. Class 21.

Dowling, Carl, New York, N. Y. Typewriters and parts thereof. 577,373, July 14; Serial No. 633,610, published Mar. 24, 1953. Class 23.

Downin, Roland W., doing business as Cecil Plumbing Specialties Company, Port Deposit, Md. Guards for flush valve handles. 577,414, July 14; Serial No. 636,558, published Apr. 14, 1953. Class 18.

Dubin-Haskell Lining Corporation, New York, N. Y. Precut collar linings for shirts. 577,218, July 14; Serial No. 616,548, published Apr. 21, 1953. Class 39.

Duff Gordon & Co.: *See*—
Shaw, Alex. D., & Co.

Duggan's Distillers Products, Corp.: *See*—
Duggan's Limited.

Duggan's Limited, Jersey City, by Duggan's Distillers Products, Corp., Newark, N. J. Whiskey. 316,498, Aug. 28, 1934. Republished July 14. Class 49.

Dunn, W. E., Manufacturing Company, Holland, Mich. Concrete building brick, blocks, and wall tile. 577,197, July 14; Serial No. 611,022, published Apr. 21, 1953. Class 12.

Dunn, W. E., Manufacturing Company, Holland, Mich. Concrete brick. 577,200, July 14; Serial No. 612,054, published Apr. 7, 1953. Class 12.

Earle Research Laboratory, Washington, D. C. Hydraulic fluid. 577,432, July 14; Serial No. 641,132, published Apr. 28, 1953. Class 6.

Eclipse Sleep Products Inc.: *See*—
Fuchs, Charles.

Electric Storage Battery Company, The, Philadelphia, Pa. Electric storage battery separators and retainers. 302,956, renewed May 2, 1953. O. G. July 14. Class 21.

Elgin Novelties (not incorporated): *See*—
Greensfelder, Elmer.

Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton piece goods. 306,700, renewed Sept. 20, 1953. O. G. July 14. Class 42.

Englebert, Henri, New York, N. Y. Fortune-telling game. 577,278, July 14; Serial No. 624,680, published Apr. 28, 1953. Class 22.

Esso Standard Oil Company: *See*—
Stanco Incorporated.
Standard Oil Company of New Jersey.
Universal Appliance Company.

Endora Products Co.: *See*—
Columbus Wholesale Barber & Beauty Supply Co., Inc.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Specially coated metal electrode. 577,229, July 14; Serial No. 618,960, published Apr. 7, 1953. Class 21.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Resinous plastic filler. 577,326, July 14; Serial No. 630,483, published Mar. 24, 1953. Class 12.

F. & F. Shoe Company, Chippewa Falls, Wis. Leather and rubber boots and shoes. 577,333, July 14; Serial No. 631,000, published Apr. 21, 1953. Class 39.

Far North Sportsmens Supply Inc., Portland, Oreg. Sleeping bags for outdoor camping use and pack boards. 577,249, July 14; Serial No. 622,587, published Apr. 28, 1953. Class 22.

Federal Cartridge Corporation, Minneapolis, Minn. Shot shells and air rifle shot. 577,427, July 14; Serial No. 638,197, published Apr. 28, 1953. Class 9.

Federal-Mogul Corporation, Detroit, Mich. Friction bearings and parts thereof, bushings, rebabbitted connecting rods and parts thereof, etc. 577,245, July 14; Serial No. 622,017, published Mar. 24, 1953. Class 23.

Felix Fabrieken N. V., Gravenhage, Netherlands. Cat food and dog food. 577,434, July 14; Serial No. 641,677, published Apr. 21, 1953. Class 46.

Femode Foundations, Inc., New York, N. Y. Ladies' and misses' corsets, corselettes, girdles, etc. 577,479, July 14; Serial No. 640,505. Class 39.

Flintkote Company, The: *See*—
Pioneer Paper Company.

Flower Products Company, Inc., Chicago, Ill. Perfume-impregnated plastic flower pots. 577,478, July 14; Serial No. 638,073. Class 2.

Forhan Company, Inc., to Zonite Products Corporation, New York, N. Y. Antiseptic solution, pyorrhea preparation, and dentifrice. 303,623, renewed May 30, 1953. O. G. July 14. Class 51.

Franklin Research Company: *See*—
White, Wilbur, Chemical Company, Inc., The.

French, Gus H., doing business as French Laboratories, Minneapolis, Minn. Ointment. 577,164, July 14; Serial No. 565,699, published Apr. 14, 1953. Class 18.

French Laboratories: *See*
French, Gus H.

Fresh Limes Co.: *See*—
Lauria, Robert, Avocado Company.

Frosty Creme Co.: *See*
Frosty Creme Products, Inc.

Frosty Creme Products, Inc., doing business as Frosty Creme Co., St. Louis, Mo. Home permanent waving kit. 577,163, July 14; Serial No. 562,773, published July 11, 1950. Class 44.

Fuchs, Charles, Philadelphia, Pa., to Eclipse Sleep Products Inc., Brooklyn, N. Y. Bed springs and mattresses. 303,016, renewed May 9, 1953. O. G. July 14. Class 32.

Fuller, D. B., & Co., Inc.: *See*—
Vandam, Albert H., Co. Inc.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 437,794, Mar. 30, 1948. Republished July 14. Class 42.

Fullerton Manufacturing Corporation, Norwalk, Conn. Incandescent, fluorescent, and cold cathode electric lighting fixtures, and parts therefor. 577,283, July 14; Serial No. 625,190, published Apr. 28, 1953. Class 21.

Gackenbach, Edward N., doing business as Crownhill Laboratories, Wyoming, Pa. Mineral water. 577,405, July 14; Serial No. 635,647, published Mar. 31, 1953. Class 45.

Gair, Robert, Company, Inc., New York, N. Y. Retail egg cartons. 577,157, July 14; Serial No. 544,261, published Apr. 21, 1953. Class 2.

Gallagher & Burton, Inc., Bristol, Pa. Alcoholic beverages. 577,191, July 14; Serial No. 607,751, published Apr. 14, 1953. Class 49.

Garcia & Vega, to Garcia & Vega, Inc., New York, N. Y. Cigars. 92,886, re-renewed Aug. 5, 1953. O. G. July 14. Class 17.

Garcia & Vega, Inc.: *See*—
Garcia & Vega.

Gardner Board and Carton Co., The, Middletown, Ohio. Paperboard cartons. 577,222, July 14; Serial No. 617,286, published Apr. 14, 1953. Class 2.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 577,419, July 14; Serial No. 637,652, published Apr. 14, 1953. Class 28.

General Dyestuff Corporation, New York, N. Y. Aromatic diazoamino compounds. 577,410, July 14; Serial No. 636,075, published Apr. 7, 1953. Class 6.

General Mills, Inc., Minneapolis, Minn. Wheat flour, and cereal breakfast foods. 304,103, renewed June 20, 1953. O. G. July 14. Class 46.

General Motors Corporation, Detroit, Mich. Vehicle hardware. 577,313, July 14; Serial No. 628,036, published Apr. 28, 1953. Class 19.

General Motors Corporation, Detroit, Mich. Door locks and parts thereof. 577,314, July 14; Serial No. 628,938, published Apr. 21, 1953. Class 25.

General Shoe Corporation: *See*—
Hood Rubber Company.
Jarman Shoe Company.

General Tire & Rubber Company, The, Akron, Ohio. Relatively pliable plastic sheet material. 577,318, July 14; Serial No. 629,663, published Apr. 7, 1953. Class 1.

General Tire & Rubber Company, The, Akron, Ohio. Relatively thick, pliable, polymeric material. 577,319, July 14; Serial No. 629,665, published Apr. 7, 1953. Class 1.

General Tire & Rubber Company, The, Akron, Ohio. Flexible calendered polymeric sheet material. 577,320, July 14; Serial No. 629,667, published Apr. 7, 1953. Class 1.

General Tire & Rubber Company, The, Akron, Ohio. Crude natural and synthetic rubber, and linear and rubbery plastics and synthetic resinous materials. 577,334, July 14; Serial No. 631,156, published Apr. 14, 1953. Class 1.

General Tire & Rubber Company, The, Akron, Ohio. Rubber accelerator. 577,430, July 14; Serial No. 640,621, published Apr. 28, 1953. Class 6.

Gennaro Auricchio, S. p. A., San Giuseppe Vesuviano, Italy, and New York, N. Y., Cheese. 577,436, July 14; Serial No. 642,406, published Apr. 21, 1953. Class 46.

Gerst, William, Brewing Co., Inc., The, Nashville, Tenn. Beer. 577,242, July 14; Serial No. 621,009, published Apr. 28, 1953. Class 48.

Globe Parlor Furniture Co., High Point, N. C. Tables and upholstered furniture. 577,452, July 14; Serial No. 622,494. Class 32.

Golf Course Superintendents Association of America, St. Charles, Ill. Periodical publications. 577,477, July 14; Serial No. 637,820. Class 38.

Goodall Backhouse & Co., to Goodall, Backhouse & Co., Limited, Leeds, England. Sauces. 92,667, re-renewed July 22, 1953. O. G. July 14. Class 46.

Goodall, Backhouse & Co., Limited: *See*—
Goodall Backhouse & Co.

Gothé, David E., New York, N. Y. Perfume, toilet water, eau de cologne. 577,340, July 14; Serial No. 631,663, published Apr. 14, 1953. Class 51.

Great Lakes Carbon Corporation, New York, N. Y. Expanded and vesiculated volcanic glass. 577,183, July 14; Serial No. 597,827, published Mar. 24, 1953. Class 12.

Greensfelder, Elmer, doing business under the name and style Elgin Novelties (not incorporated), Provincetown, Mass. Flexible metallic racks. 577,108, July 14; Serial No. 569,558, published Apr. 14, 1953. Class 13.

Gross, Milt: *See*—
King Features Syndicate, Inc.

Grueter, Carroll B., doing business as The Waverley Specialty Co., Waverley, Mass. Fountain cleaning and defrosting apparatus. 577,456, July 14; Serial No. 625,068. Class 13.

Hanchett Magna-Lock Corporation, Big Rapids, Mich. Magnetic chucks. 577,209, July 14; Serial No. 614,939, published Apr. 28, 1953. Class 21.

Harris, Sidney, and W. Americus, to Tom Tucker Beverage Company, Pittsburgh, Pa. Ginger ale, a non-alcoholic, non-cereal, maltless beverage, sold as a soft drink. 303,683, renewed June 6, 1953. O. G. July 14. Class 45.

Heinemann Electric Company, Trenton, N. J. Electric circuit breakers. 577,238, July 14; Serial No. 620,158, published Apr. 28, 1953. Class 21.

Henniker Crutch Co., Inc., Warner, N. H. Crutches. 577,344, July 14; Serial No. 631,865, published Apr. 14, 1953. Class 44.

Hercules Powder Company, Wilmington, Del. Smokeless powder. 93,598, re-renewed Sept. 30, 1953. O. G. July 14. Class 9.

Heyer, George S., Houston, assignor to San Antonio Drug Company, to San Antonio Drug Company, San Antonio, Tex. Skin powder. 306,689, renewed Sept. 20, 1953. O. G. July 14. Class 18.

Hilfiker, H. R., & Co., Zurich, Switzerland. Supersonic electrical vibration apparatus. 577,237, July 14; Serial No. 620,102, published Apr. 28, 1953. Class 21.

Hoffman Record Company: *See*—
Hoffman Walter.

Hoffman, Walter, trading and doing business as Hoffman Record Company, Hollywood, Calif. Grooved phonograph records. 577,473, July 14; Serial No. 631,486. Class 36.

Holwin Corporation, Chicago, Ill. Automatic electric defrosters for refrigerators and electric sockets, switches, etc. 577,311, July 14; Serial No. 628,106, published Apr. 14, 1953. Class 21.

Home Decorators, Inc., Newark, N. Y. Silverplated flat tableware. 577,206, July 14; Serial No. 614,051, published Apr. 14, 1953. Class 28.

Hood Rubber Company, Boston, Mass., to General Shoe Corporation, Nashville, Tenn. Rubber boots and shoes, rubber overshoes, and rubber-soled canvas boots and shoes. 91,874, re-renewed June 3, 1953. O. G. July 14. Class 39.

Hopkins Syndicate, Inc., The, Mellott, Ind. Game apparatus. 577,173, July 14; Serial No. 589,213, published Apr. 28, 1953. Class 22.

House of Kennedy, Inc., Cleveland, Ohio. Paper cardboard cartons. 577,301, July 14; Serial No. 620,886, published Apr. 21, 1953. Class 2.

House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' coats, suits, jackets, etc. 577,380, July 14; Serial No. 633,982, published Apr. 21, 1953. Class 39.

Hudepohl Brewing Company, The, Cincinnati, Ohio. Beer. 577,292–3, July 14; Serial Nos. 625,803–4, published Apr. 28, 1953. Class 48.



Hudnut, Richard, New York, N. Y. Perfumes, sachet-powder, toilet-water, etc. 91,213, re-renewed Apr. 22, 1953. O. G. July 14. Class 51.

Hudnut, Richard, New York, N. Y. Soap. 91,215, re-renewed Apr. 22, 1953. O. G. July 14. Class 52.

Humber Limited, Coventry and Stoke, Coventry, England. Automobiles and chassis. 577,225, July 14; Serial No. 618,039, published Apr. 28, 1953. Class 19.

Hyde, A. R., & Sons Company: *See*—
Athletic Shoe Company, The.

Hygienol Company, Inc.: *See*—
Levy, Maurice.

Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Compositions for preventing and treating sunburn. 306,581, renewed Sept. 26, 1953. O. G. July 14. Class 51.

Ideal Cement Company: *See*—
Colorado Portland Cement Company, The.

Ilford, Limited, Ilford, England. Sensitized cinematographic and photographic films. 305,002, renewed July 25, 1953. O. G. July 14. Class 26.

Indian Company, The: *See*—
Indian Sales Corporation.

Indian Sales Corporation, Springfield, Mass., now by change of name, The Indian Company, Motorcycles. 577,395, July 14; Serial No. 634,940, published Apr. 28, 1953. Class 19.

International Fur and Leather Workers Union of The United States and Canada, New York, N. Y. Fur garments. 577,437, July 14; Serial No. 609,927, published Apr. 14, 1953. Class 39.

International Harvester Company, Chicago, Ill. Motor vehicles. 577,435, July 14; Serial No. 642,355, published Apr. 28, 1953. Class 19.

International Products Company: *See*
Bohemian Distributing Company.

Interstate Folding Box Company, The, Middletown, Ohio. Collapsible paperboard cartons. 577,384, July 14; Serial No. 634,045, published Apr. 21, 1953. Class 2.

Interstate Folding Box Company, The, Middletown, Ohio. Collapsible paperboard cartons, and bags. 577,385, July 14; Serial No. 634,046, published Apr. 21, 1953. Class 2.

Inventrust, Inc., Providence, R. I. Hydraulic washing and sanilizing machines. 577,162, July 14; Serial No. 559,710, published Mar. 31, 1953. Class 23.

Invincible Tool Company, Inc., Pittsburgh, Pa. Portable electric tools. 577,300, July 14; Serial No. 626,793, published Apr. 28, 1953. Class 21.

Irval Cosmetics, Inc., Troy, N. Y. Preparation for straightening or waving hair. 577,309, July 14; Serial No. 627,748, published Mar. 31, 1953. Class 51.

J. B. The Company, Salt Lake City, assignor to G. E. Miller, Bountiful, Utah. Electrical heating devices. 577,230, July 14; Serial No. 619,138, published Apr. 28, 1953. Class 21.

Janov, I., Shirt Co.: *See*—
Janov-Abeles, I., Shirt Co.

Janov-Abeles, I., Shirt Co., New York, N. Y., to I. Janov Shirt Co., Hazleton, Pa. Men's dress shirts, negligee shirts, collars. 299,869, renewed Dec. 27, 1952. O. G. July 14. Class 39.

Jarman Shoe Company, to General Shoe Corporation, Nashville, Tenn. Shoes. 302,698, renewed Apr. 25, 1953. O. G. July 14. Class 39.

Jerith Manufacturing Co.: *See*—
Schwartz, Irving.

Johnson, Howard D., Company, Quincy, Mass. Fountain syrups and concentrates. 577,174, July 14; Serial No. 589,318, published Apr. 14, 1953. Class 45.

Johnson & Johnson: *See*—
Professional Products Corporation.

Johnson & Johnson, New Brunswick, N. J. Athletic supporters. 577,381, July 14; Serial No. 633,985, published Apr. 14, 1953. Class 44.

Joslyn Mfg. and Supply Co., Chicago, Ill. Complete pole line equipment. 577,105, July 14; Serial No. 567,081, published Apr. 28, 1953. Class 21.

Juillard Fancy Foods Company, San Francisco, Calif. Vermouth. 577,234, July 14; Serial No. 619,577, published Apr. 28, 1953. Class 47.

Julons, Inc., New York, N. Y. Self attaching costume jewelry ornaments. 577,204, July 14; Serial No. 613,407, published Apr. 14, 1953. Class 28.

Kango Electric Hammers Limited, London, England. Hand supported electric hammers and parts thereof. 577,216, July 14; Serial No. 616,104, published Apr. 28, 1953. Class 21.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Brushless shaving cream. 300,725, Feb. 7, 1933. Republished July 14. Class 51.

Kenwood Modes Corp., New York, N. Y. Ladies', misses', and children's dresses, coats, dress ensembles. 577,307, July 14; Serial No. 627,549, published Apr. 21, 1953. Class 39.

Kilgore, Charles, Company, Inc., Yonkers, N. Y. Gluten flour and wheat flour. 577,408, July 14; Serial No. 635,969, published Apr. 21, 1953. Class 46.

King Features Syndicate, Inc., New York, N. Y., to Milt Gross, Beverly Hills, Calif. Cartoons. 304,757, renewed July 18, 1953. O. G. July 14. Class 38.

Kite-A-Chute Co.: *See*—
Peterson, James M.

Klik Promotions, Inc., New York, N. Y. Fitted leather and simulated leather toilet kits. 577,446, July 14; Serial No. 611,960. Class 3.

Kohler Co., Kohler, Wis. Plumbing fittings. 577,392, July 14; Serial No. 634,599, published Apr. 28, 1953. Class 13.

Kraft Foods Company, Chicago, Ill. Animal feed. 577,321, July 14; Serial No. 629,739, published Apr. 28, 1953. Class 46.

La Cigogne de Strasbourg, G. & L. Stein, Societe a Responsabilite Limitee, Schiltigheim, France. Cherry brandy. 577,276, July 14; Serial No. 624,604, published Apr. 7, 1953. Class 49.

La Sole, Société Anonyme, Paris, France. Fishing lines, fishing reels, fishing rods, etc. 577,362, July 14; Serial No. 632,731, published Apr. 28, 1953. Class 22.

La Bard, Lillian S., New York, N. Y. Specially conatructed spectacles and sunglasses. 577,239, July 14; Serial No. 623,420, published Jan. 27, 1953. Class 26.

Labatt, John, Limited, London, Ontario, Canada. Beer. 577,210, July 14; Serial No. 614,949, published Apr. 7, 1953. Class 48.

Ladner Brothers, Incorporated, Chicago, Ill. Alcoholic beverage. 577,158, July 14; Serial No. 551,803, published Sept. 23, 1952. Class 49.

Lambert Marketing Co., Sacramento, Calif. Fresh vegetables. 285,362, July 28, 1931. Republished July 14. Class 46.

Lambert Marketing Co., Sacramento, Calif. Fresh vegetables, fresh deciduous fruits. 287,439, Sept. 29, 1931. Republished July 14. Class 46.

Lambert Marketing Co., Sacramento, Calif. Fresh grapes, fresh deciduous fruits, fresh vegetables. 298,341, Oct. 25, 1932. Republished July 14. Class 46.

Larvex Corporation, The, to Zonite Products Corporation, New York, N. Y. Atomizers for spraying insecticides, mothproofing compositions, etc. 304,195, renewed June 27, 1953. O. G. July 14. Class 23.

Lauria, Robert, Avocado Company, trading as Fresh Limes Co., Los Angeles, Calif. Fresh limes. 577,201, July 14; Serial No. 612,618, published Apr. 28, 1953. Class 46.

Lazenby, E., & Son, Limited, London, England, to The Crosse & Blackwell Company, Baltimore, Md. Sauces. 40,986, re-renewed Aug. 25, 1953. O. G. July 14. Class 46.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Bros. Gurment Corp.

Lempco Products, Inc., Bedford, Ohio. Dollies and wheel balancing weights. 577,213, July 14; Serial No. 615,236, published Apr. 28, 1953. Class 19.

Lenel Company: *See*—
Rothchild, Lionel G.

Levy, Maurice, New York, to Hygienol Company, Inc., New Rochelle, N. Y. Powder puffs. 93,605, re-renewed Sept. 30, 1953. O. G. July 14. Class 29.

Lewis, G. B., Company, Watertown, Wis. Trays and tote boxes. 577,203, July 14; Serial No. 613,077, published Apr. 7, 1953. Class 2.

Lien Chemical Company, Franklin Park, Ill. Liquid cleaner, powdered hand soap, liquid hand soap, etc. 577,175, July 14; Serial No. 589,904, published Apr. 28, 1953. Class 52.

Linker & Herbert, Inc., New York, N. Y. Misses' and women's coats and suits. 577,398, July 14; Serial No. 635,227, published Apr. 21, 1953. Class 39.

Lombard Governor Corporation, Ashland, Mass. Chain saws and parts thereof. 577,370, July 14; Serial No. 633,583, published Mar. 24, 1953. Class 23.

Long, John, Distilleries, Limited, London, England. Whisky. 577,305, July 14; Serial No. 627,393, published Apr. 7, 1953. Class 49.

Longview Fibre Company, Longview, Wash. Fibre shipping containers. 577,355, July 14; Serial No. 632,483, published Apr. 14, 1953. Class 2.

Lustberg, Nast & Co., Inc., New York, N. Y. Men's and boys' sport shirts, sport coats, jackets, etc. 577,352, July 14; Serial No. 632,435, published Apr. 14, 1953. Class 39.

Lynchburg Foundry Company, Lynchburg, Va. Corrosion-resisting alloys and castings made therefrom. 305,228, renewed Aug. 8, 1953. O. G. July 14. Class 14.

MacKenzie, Alexander, Jr., doing business as MacKenzie Tool & Engineering Co., Springfield, Mass. Fishing tackle. 577,224, July 14; Serial No. 617,802, published Apr. 28, 1953. Class 22.

MacKenzie Tool & Engineering Co.: *See*—
MacKenzie, Alexander, Jr.

MacIntosh, John, & Sons Limited, Halifax, England. Candy and chewing gum. 577,310, July 14; Serial No. 627,893, published Apr. 28, 1953. Class 46.

MacLachlans Limited, Edinburgh and Glasgow, Scotland. Scotch whiskey. 577,346, July 14; Serial No. 632,254, published Apr. 28, 1953. Class 49.

Manchester Hosiery Mills: *See*—
Massachusetts Knitting Mills.

Marbon Corporation, Gary, Ind. Adhesives. 344,059, Mar. 9, 1937. Republished July 14. Class 5.

Marietta Paint & Color Co., The, Marietta, Ohio, by American-Marietta Company, Chicago, Ill. Varnish stain. 94,189, Nov. 11, 1913. Republished July 14. Class 16.

Marietta Paint & Color Co., The, Marietta Ohio, by Amerltan-Marietta Company, Chicago, Ill. Interior floor paint, porch and deck paint, automobile paint enamels, etc. 150,891, Jan. 10, 1922. Republished July 14. Class 16.

Marietta Paint & Color Co., The, Marietta Ohio, by American-Marietta Company, Chicago, Ill. Interior wall paint. 311,726, Apr. 3, 1934. Republished July 14. Class 16.

Marietta Paint & Color Co., The, Marietta Ohio, by American-Marietta Company, Chicago, Ill. Crack and crevice filler. 332,467, Feb. 18, 1936. Republished July 14. Class 12.

Martin Products: *See*—
Abele, Walter L.

Martin-Senour Company, The, Chicago, Ill. Ready-mixed and semipaste paints and paint colors. 577,447, July 14; Serial No. 612,697. Class 16.

Martini & Rossi Corporation, New York, N. Y. Alcoholic cordials. 577,251, July 14; Serial No. 622,753, published Apr. 28, 1953. Class 49.

Massachusetts Knitting Mills, Boston, Mass., to Manchester Hosiery Mills, Manchester, N. H. Hosiery. 300,584, renewed Jan. 24, 1953. O. G. July 14. Class 39.

Masslllon Rubber Company, The, Masslllon, Ohio. Rubber gloves, primarily for surgical purposes. 577,275, July 14; Serial No. 624,553, published Apr. 14, 1953. Class 44.

Mastabar Belt Fastener Co. Limited, Marfleet, Hull, England. Machines for inserting and lacing fasteners in conveyor belting. 577,270, July 14; Serial No. 624,346, published Apr. 14, 1953. Class 23.

Masury-Young Company, Charlestown, Mass. Water-emulsion dressing. 577,448, July 14; Serial No. 613,939. Class 16.

Mathews, Nellson M., doing business as Valley Forge Creations, Devon, Pa. Plastic covered box. 577,402, July 14; Serial No. 635,485, published Apr. 21, 1953. Class 2.

Manjer Publishing Company, The, St. Joseph, Mich. Periodicals. 577,464, July 14; Serial No. 627,206. Class 38.

Maxan Negligees, Inc., New York, N. Y. Ladies' and misses' negligees. 577,223, July 14; Serial No. 617,374, published Apr. 21, 1953. Class 39.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

May Department Stores Company, The, St. Louis, Mo. Men's ties. 301,322, Feb. 28, 1933. Republished July 14. Class 39.

Meiaberger's Markets, Indianapolis, Ind. Coffee, cheese, fresh and smoked meat. 577,336, July 14; Serial No. 631,359, published Apr. 28, 1953. Class 46.

Merit Clothing Company, Mayfield, Ky. Men's suits. 577,476, July 14; Serial No. 634,601. Class 39.

Merkel Inc., New York, to Merkel, Inc., Jamaica, N. Y. Smoked butts. 302,623, renewed Apr. 25, 1953. O. G. July 14. Class 46.

Midcontinent Chemical Company, Grove City, Ohio. Cellular sponge rubber. 577,390, July 14; Serial No. 634,378, published Apr. 14, 1953. Class 1.

Miller, Glen E., assignee: *See*—
J. B. Tile Company.

Miller and Rhoads, Incorporated, Richmond, Va. Kitchen articles, food preparation devices, fire tool sets, etc. 577,256, July 14; Serial No. 623,105, published Mar. 24, 1953. Class 23.

Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pressure regulating valves. 577,260, July 14; Serial No. 623,556, published Apr. 14, 1953. Class 13.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Plastic sheet material. 577,394, July 14; Serial No. 634,854, published Apr. 7, 1953. Class 1.

Minor, P. W., & Son, to P. W. Minor & Son, Inc., Batavia, N. Y. Leather boots and shoes. 40,815, re-renewed July 28, 1953. O. G. July 14. Class 39.

Minor, P. W., & Son, Inc.: *See*—
Minor, P. W., & Son.

Minwax Company, Inc., New York, N. Y. Polishing and finishing waxes. 577,327, July 14; Serial No. 630,542, published Apr. 28, 1953. Class 4.

Miro Flector Co., Inc., New York, N. Y. Light reflectors for electric lamps. 577,290, July 14; Serial No. 625,750, published Apr. 28, 1953. Class 21.

Miron Mills, Inc., Clinton, Mass. Woolen piece goods. 577,463, July 14; Serial No. 626,102. Class 42.

Mitchell, George, doing business as Mitchell Products Company, Detroit, Mich. Electrically operated device for automatically operating traverse draperies. 577,269, July 14; Serial No. 624,286, published Apr. 28, 1953. Class 21.

Mitchell Products Company: *See*—
Mitchell, George.

Model Brassiere Co. Inc., to Model Brassiere Corp., Brooklyn, N. Y. Combination garment. 303,917, renewed June 13, 1953. O. G. July 14. Class 39.

Model Brassiere Corp.: *See*—
Model Brassiere Co. Inc.

Modern Shoe Company, St. Louis, Mo. Men's and boys' shoes. 577,199, July 14; Serial No. 611,184, published Apr. 21, 1953. Class 39.

Mojeate Laboratories, New York, N. Y. Antiseptic powder. 306,735, renewed Sept. 26, 1953. O. G. July 14. Class 18.

Morrell, John, & Co., Otumwa, Iowa. Cheese. 305,187, renewed Aug. 8, 1953. O. G. July 14. Class 46.

Mo-Speed Piston Rings: *See*—
Ramsey Corporation.

Mother's Cake & Cookie Co.: *See*—
Wheatley, Noah M.

Mother's Cake & Cookie Co., Oakland, Calif. Cookies, crackers, and cake. 577,159, July 14; Serial No. 555,287, published June 24, 1952. Class 46.

Mount Rose Canning Co.: *See*—
Rosenberg, Leon.

Moussaill, Alexis, Paris, France. Improved theophylline. 577,306, July 14; Serial No. 627,453, published Apr. 14, 1953. Class 18.

Multi-Meter Corporation, Toledo, Ohio. Manually controlled syphon valve. 577,396, July 14; Serial No. 634,947, published Apr. 28, 1953. Class 13.

N. V. Chemische Industrie "Rida," Haarlem, Netherlands. Disinfectant, household deodorant, sterilizing solution; etc. 577,250, July 14; Serial No. 622,613, published Apr. 28, 1953. Class 6.

Nachman, L., & Son, Inc., Philadelphia, Pa. Women's and misses' textile aprons. 577,244, July 14; Serial No. 621,371, published Apr. 21, 1953. Class 39.

National Casket Company, Incoporated, New York, N. Y. Burial caskets. 577,400, July 14; Serial No. 635,425, published Apr. 14, 1953. Class 2.

National Milling & Chemical Company, Philadelphia, Pa. Soap compound. 300,473, renewed Jan. 24, 1953. O. G. July 14. Class 52.

National Products Corporation, Boston and Waltham, Mass. Sheathed electrical connectors. 577,449, July 14; Serial No. 615,846. Class 21.

Neighbor, James E., doing business as Rusticraft Shops, Lafayette, Calif. Kits containing instructions and a varied assortment of wood construction brads, glue, etc. 577,462, July 14; Serial No. 625,861. Class 50.

New England Fish Company: *See*—
Warren Packing Company.

New York Patent Corporation, Jersey City, N. J. Toy. 577,323, July 14; Serial No. 630,145, published Apr. 28, 1953. Class 22.

New York Rubber Corporation, New York, N. Y. Rubber inflatable swimming devices. 577,348–9, July 14; Serial Nos. 632,308–9, published Apr. 28, 1953. Class 22.

New York Rubber Corporation, New York, N. Y. Inflatable boats and inflatable floats. 577,350, July 14; Serial No. 632,312, published Apr. 28, 1953. Class 19.

New York Rubber Corporation, New York, N. Y. Rubber inflatable swimming devices. 577,351, July 14; Serial No. 632,313, published Apr. 28, 1953. Class 22.

Norrholm, Henry, New York, N. Y. Game. 577,470, July 14; Serial No. 630,787. Class 22.

North, Charlotte Thorndike, Montclair, N. J. Dolls. 577,468, July 14; Serial No. 630,506. Class 22.

Novick, Dan, & Co., Not Inc., Chicago, Ill. Women's dresses. 577,243, July 14; Serial No. 621,284, published Apr. 21, 1953. Class 39.

Nu-Know-U Well Medicine Co.: *See*—
Rice, Edward E.

Nunnally & McCrea Company, Inc., Atlanta, Ga. Boys' clothing. 577,194, July 14; Serial No. 609,809, published Apr. 14, 1953. Class 39.

O'Brien Corporation, The: *See*—
O'Brien Varnish Company.

O'Brien Varnish Company, to The O'Brien Corporation, South Bend, Ind. Clear varnishes, ready mixed paints, varnish enamels, etc. 306,189, renewed Sept. 12, 1953. O. G. July 14. Class 16.

Occidental Life Insurance Company of California, Los Angeles, Calif. Underwriting group disability insurance. 577,480, July 14; Serial No. 608,467. Class 102.

Ohio Brass Company, The, Mansfield, Ohio. Electric car couplers, trolley pole catchers and retrievers, trolley pole bases, etc. 577,255, July 14; Serial No. 623,008, published Apr. 28, 1953. Class 21.

Okonite-Callender Cable Company, Incorporated, The, Paterson, N. J. Electric cables and for electric cable systems. 303,168, renewed May 16, 1953. O. G. July 14. Class 21.

Old Mission Fig Bar Co.: *See*—
Wheatley, Noah M.

Omega Louis Brandt & Frère, S. A., Bienne, Switzerland. Wrist watch bracelets, bands and straps. 577,415, July 14; Serial No. 637,075, published Apr. 14, 1953. Class 28.

Oneida Ltd., Sherrill and Oneida, N. Y. Silverplated hollowware. 577,422, July 14; Serial No. 637,788, published Apr. 14, 1953. Class 28.

Orchard Paper Co., St. Louis, Mo. Wrapping paper. 577,459, July 14; Serial No. 625,486. Class 37.

Oxo Limited, London, England. Extract of beef. 577,315, July 14; Serial No. 629,251, published Apr. 28, 1953. Class 46.

Pacific Fruit & Produce Co.: *See*—
Pacific Gamble Robinson Co.

Pacific Gamble Robinson Co., doing business as Pacific Fruit & Produce Co., Seattle, Wash., and Los Angeles, Calif. Fresh vegetables. 577,357, July 14; Serial No. 632,573, published Apr. 21, 1953. Class 46.

Painut Company, The, Irvington, N. J. Metal fastening devices. 577,412, July 14; Serial No. 636,378, published Apr. 14, 1953. Class 13.



Panalarm Products, Inc., Chicago, Ill. Electrical annunciator instruments and component parts thereof. 577,378, July 14; Serial No. 633,786, published Apr. 28, 1953. Class 21.

Panther Oil & Grease Mfg. Co., Fort Worth, Tex. Roof covering material. 577,266, July 14; Serial No. 623,983, published Apr. 14, 1953. Class 12.

Peck, Cecil C., Company, Cleveland, Ohio. Electric arc-welding apparatus. 577,281, July 14; Serial No. 625,026, published Apr. 28, 1953. Class 21.

Peck & Peck, New York, N. Y. Piece goods. 302,065, renewed Apr. 25, 1953. O. G. July 14. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Indian blankets, wool in the piece, blankets and shawls; etc. 156,730, July 11, 1922. Republished July 14. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Textile blankets. 212,278, Apr. 27, 1926. Republished July 14. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Blankets. 215,591, July 20, 1926. Republished July 14. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Woolen blankets. 222,644, Jan. 4, 1927. Republished July 14. Class 42.

Pendleton Woolen Mills, Portland, Oreg. Textile blankets. 223,756, Feb. 8, 1927. Republished July 14. Class 42.

Pennsylvania Refining Company, Butler, Pa. Emulsifying agent. 577,303, July 14; Serial No. 627,216, published Apr. 28, 1953. Class 6.

Perry Plastics, Inc., Erie, Pa. Receptacles. 577,169, July 14; Serial No. 579,514, published Apr. 21, 1953. Class 2.

Peterson, A. E., Manufacturing Co., Glendale, Calif. Golf practice machine with cord and ball assembly. 577,228, July 14; Serial No. 618,712, published Apr. 28, 1953. Class 22.

Peterson, James M., doing business as Kite-A-Chute Co., Lansing, Iowa. Aerial kite toy. 577,472, July 14; Serial No. 631,252. Class 22.

Pevely Dairy Company, St. Louis, Mo. Milk, cream, butter milk, etc. 303,337, renewed May 23, 1953. O. G. July 14. Class 46.

Pfaffman Co., The, Cleveland, Ohio. Macaroni. 577,246, July 14; Serial No. 622,187, published Apr. 28, 1953. Class 46.

Pfifferling, Richard, doing business as Tip Top Shoe, New York, N. Y. Shoes. 577,363, July 14; Serial No. 633,121, published Apr. 21, 1953. Class 39.

Phalo Plastics Corporation, Dover, Del., and Worcester, Mass. Electrical apparatus. 577,386, July 14; Serial No. 634,161, published Apr. 28, 1953. Class 21.

Pharma-Craft Corporation, The, New York, N. Y. Oral deodorant tablet. 577,195, July 14; Serial No. 610,227, published Apr. 14, 1953. Class 51.

Phoenix Trimming Co., Chicago, Ill. Drapes, curtains, portieres, etc. 302,295, renewed Apr. 11, 1953. O. G. July 14. Class 42.

Physicians and Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn. Pharmaceutical preparation. 306,646, renewed Sept. 26, 1953. O. G. July 14. Class 18.

Pillsbury Mills, Inc.: *See*—
Pillsbury-Washburn Flour Mills Company, Ltd.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flours. 441,193, Nov. 2, 1948. Republished July 14. Class 46

Pillsbury-Washburn Flour Mills Company, Ltd., by Pillsbury Mills, Inc., Minneapolis, Minn. Flour. 44,818, July 25, 1905. Republished July 14. Class 46.

Pioneer Paper Company, Los Angeles, Calif., to The Flintkote Company, New York, N. Y. Bituminous emulsions. 302,734, renewed Apr. 25, 1953. O. G. July 14. Class 12.

Plastex Protective Products, Inc., Clifton, N. J. Vinyl plastic containers. 577,341, July 14; Serial No. 631,683, published Apr. 14, 1953. Class 2.

Plastic Film Products Corporation, Akron, Ohio. Plastic film aprons, shampoo capes, cosmetic capes, etc. 577,248, July 14; Serial No. 622,457, published Apr. 21, 1953. Class 39.

Plax Corporation, West Hartford, Conn. Bottles. 577,185, July 14; Serial No. 602,969, published Apr. 21, 1953. Class 2.

Plomb Tool Company, The, Los Angeles, Calif. Hot rolled and cold finished alloy steel bars. 577,268, July 14; Serial No. 624,205, published Apr. 21, 1953. Class 14.

Plymouth Shoe Company, Middleboro, Mass. Shoes. 577,264, July 14; Serial No. 623,676, published Apr. 21, 1953. Class 39.

Porto Rico Pale Dry Co., Philadelphia, Pa. Nonalcoholic maltless soft drinks. 577,172, July 14; Serial No. 584,594, published Apr. 21, 1953. Class 45.

Prain, Willis A., doing business as The Colonial Co., St. Cloud, Minn. Electrically operated wallpaper steamers. 577,382, July 14; Serial No. 633,997, published Apr. 28, 1953. Class 21.

Prince, L. M., Co., Cincinnati, Ohio. Spectacles and spectacle lenses. 577,444, July 14; Serial No. 609,379. Class 26.

Procter & Gamble Company, The: *See*—
Procter & Gamble Co., The.

Procter & Gamble Co., The, Cincinnati and Ivorydale, to The Procter & Gamble Company, Cincinnati, Ohio. Seed-oils and seed products. 39,723, re-renewed Feb. 3, 1953. O. G. July 14. Class 46.

Producer's Exchange, Inc., Toledo, Ohio. Fruit and vegetable baskets and boxes. 577,403, July 14; Serial No. 635,493, published Apr. 21, 1953. Class 2.

Production Mouldings Corporation, Chicago, Ill. Metal molding trim for automobiles. 577,265, July 14; Serial No. 623,907, published Apr. 28, 1953. Class 19.

Professional Products Corporation, assignor to Johnson & Johnson, to Johnson & Johnson, New Brunswick, N. J. Tablets for pains, dysmenorrhea, etc. 302,070, renewed Mar. 28, 1953. O. G. July 14. Class 18.

Putnam Knitting Co., Cohoes, N. Y. Knitted wash cloths and towels. 103,207, Mar. 23, 1915. Republished July 14. Class 42.

Quality Chemists, Inc., St. Louis, Mo. Hair lotion. 577,339, July 14; Serial No. 631,576, published Apr. 21, 1953. Class 51.

Ramsey Corporation, doing business as Mo-Speed Piston Rings, St. Louis, Mo. Piston rings. 577,353, July 14; Serial No. 632,442, published Apr. 28, 1953. Class 35.

Ransburg, Harper J., Co., Inc., Indianapolis, Ind. Housewares made of metal, namely, match boxes, etc. 577,196, July 14; Serial No. 610,462, published Apr. 21, 1953. Class 2.

Ray-Ve Company: *See*—
Ventrallo, Rada F.

Red Bridge Book Cloth Company, Limited, The, Red Bridge, Ainsworth, Bolton, to The Red Bridge Book Cloth Company Limited, Ainsworth, England. Tracing cloth and tracing paper. 303,577, renewed May 30, 1953. O. G. July 14. Class 37.

Rice, Edward E., doing business as Nu-Know-U-Well Medicine Co., Elmira, N. Y. Herb compound medicine and liniment. 577,423, July 14; Serial No. 638,035, published May 5, 1953. Class 18.

Richard, David, Washington, D. C. Men's suits, topcoats, overcoats. 577,467, July 14; Serial No. 630,026. Class 39.

Rival Manufacturing Company, Kansas City, Mo. Mounting brackets. 577,294, July 14; Serial No. 625,820, published Oct. 7, 1952. Class 13.

Rizzon, Oscar C., Co., The, Chicago, Ill. Thresholds. 577,331, July 14; Serial No. 630,793, published Mar. 24, 1953. Class 12.

Romanoff Caviar Company, New York, N. Y. Prepared toast. 305,962, renewed Aug. 29, 1953. O. G. July 14. Class 46.

Rosenberg, Leon, doing business under the trade name of Mount Rose Canning Co. King George, Va. Sweet pickled gherkins, mixed sweet- and sour-pickles, and sweet relish, etc. 577,252, July 14; Serial No. 622,756, published Apr. 28, 1953. Class 46.

Rothchild, Lionel G., doing business as Lenel Company, Dallas, Tex. Cologne, dusting powder, perfumed sachet, and perfume. 577,211, July 14; Serial No. 615,193, published Apr. 14, 1953. Class 51.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos-cement board. 577,454, July 14; Serial No. 624,360. Class 12.

Rubinstein, Helena, Inc., New York, N. Y. Bracelets, necklaces, earrings, etc. 577,208, July 14; Serial No. 614,720, published Apr. 14, 1953. Class 28.

Rusticraft Shops: *See*—
Neighbor, James E.

Sage Laboratories, Inc., New York, N. Y. Hair tonic and after shaving lotion. 577,297, July 14; Serial No. 626,051, published Sept. 30, 1952. Class 51.

San Antonio Drug Company: *See*—
Heyer, George S.

Sandeman, Geo. G., Sons & Co. Limited, London, England. Sherry wine. 305,613, renewed Aug. 22, 1953. O. G. July 14. Class 47.

San Fernando Heights Orange Association, San Fernando, Calif. Fresh citrus fruit. 306,492, renewed Sept. 19, 1953. O. G. July 14. Class 46.

Schaffer Stores Company, Inc., Schenectady, N. Y. Fresh and fresh frozen pheasant chicken. 577,466, July 14; Serial No. 629,059. Class 46.

Schenley Industries, Inc., New York, N. Y. Whiskey. 577,171, July 14; Serial No. 582,145, published Apr. 7, 1953. Class 49.

Schramm Inc., West Chester, Pa. Internal combustion engines, air compressors and pneumatic tools. 577,190, July 14; Serial No. 607,687, published Apr. 28, 1953. Class 23.

Schuhfabrik Henke & Co. Aktiengesellschaft, Stein am Rhein, Switzerland. Ski boots, shoes and boots. 577,335, July 14; Serial No. 631,221, published Apr. 21, 1953. Class 39.

Schwartz, Irving, doing business as Jerith Manufacturing Co., Philadelphia, Pa. Combination storm screen and sash. 577,324, July 14; Serial No. 630,155, published Mar. 24, 1953. Class 12.

Scot-Mates Sportswear, Ltd., New York and Brooklyn, N. Y. Ladies' and misses' cardigan sweaters, pullover sweaters, skirts, etc. 577,279, July 14; Serial No. 624,707, published Apr. 21, 1953. Class 39.

Scovill Manufacturing Company, Waterbury, Conn. Brass, bronze and nickel silver mill products. 577,202, July 14; Serial No. 612,708, published Apr. 21, 1953. Class 14.

Screen and Stage Make-Up by Elizabeth Arden, Ltd.: *See*—
De Long Laboratories, Inc.

Seaboard Seed Company, Philadelphia, Pa. Lawn seed. 577,271, July 14; Serial No. 624,364, published Apr. 14, 1953. Class 1.

Seaboard Seed Company, Philadelphia, Pa. Lawn seed. 577,272, July 14; Serial No. 624,368, published Apr. 14, 1953. Class 1.

Seneca Food Products Corporation, to The West End Brewing Company, Utica, N. Y. Malt beverages. 304,285, renewed June 27, 1953. O. G. July 14. Class 48.

Seneca Food Products Corporation, to The West End Brewing Company, Utica, N. Y. Malt beverages. 305,005, renewed July 25, 1953. O. G. July 14. Class 48.

Sezauer, J. A., Mfg. Co., Inc., New York, N. Y. Powdered and liquid sealing compound, and pipe joint cement. 577,220, July 14; Serial No. 616,970, published Mar. 17, 1953. Class 12.

Seymour Packing Company, The, Topeka, Kans. Quick frozen fowl with giblets. 577,377, July 14; Serial No. 633,741, published Apr. 14, 1953. Class 46.

Shaw, Alex. D., & Co., New York, N. Y., to Duff Gordon & Co., Port St. Mary's, Spain. Sherry-wine. 91,908, re-renewed June 3, 1953. O. G. July 14. Class 47.

Shawlnigan Products Corporation, New York, N. Y. Synthetic resinous material. 290,741, Jan. 12, 1932. Republished July 14. Class d.

Sherman, G. H., M. D., Inc., to Sherman Laboratories, Detroit, Mich. Creams, salves or skin ointments. 301,046, renewed Feb. 14, 1953. O. G. July 14. Class 51.

Shernian Laboratories: *See*—
Sherman, G. H., M. D., Inc.

Shoe Corporation of America, Columbus, Ohio. Men's, women's and children's shoes. 577,309, July 14; Serial No. 635,328, published Apr. 7, 1953. Class 39.

Shotwell, Albert V., to Wilco Company, Los Angeles, Calif. Shoe dressings. 303,387, renewed May 23, 1953. O. G. July 14. Class 6.

Siegel Bros. Garment Corp., by Leeds Ltd. Coats, Inc., New York, N. Y. Woolen and worsted fabrics. 408,638, Aug. 22, 1944. Republished July 14. Class 42.

Skin Tested Drug Products, Inc., New York, N. Y. Hair coloring powder. 577,356, July 14; Serial No. 632,403, published Apr. 14, 1953. Class 51.

Skooltie Company, Newton, Mass. Necktles. 577,406, July 14; Serial No. 635,792, published Apr. 14, 1953. Class 39.

Snow Crop Marketers, Inc., assignor to Clinton Foods, Inc., New York, N. Y. Frozen fruits, frozen fruit juices, frozen vegetables, etc. 577,170, July 14; Serial No. 581,299, published Apr. 1, 1952. Class 46.

Solar Aircraft Company, San Diego, Calif. Welding flux. 577,433, July 14; Serial No. 641,215, published Apr. 28, 1953. Class 6.

Solar Electric Corporation, Warren, Pa. Electric incandescent lamps, electric wire connectors, electric attachment plugs, etc. 577,325, July 14; Serial No. 630,355, published Apr. 28, 1953. Class 21.

Sorkin Music Company, Inc., New York, N. Y. Electrical amplifying equipment. 577,368, July 14; Serial No. 633,514, published Apr. 28, 1953. Class 21.

Soya Products, Inc., by Allied Mills, Inc., Chicago, Ill. Commercial feeds. 300,898, Feb. 14, 1933. Republished July 14. Class 46.

Sperti Faraday Inc., Cincinnati, Ohio, and Adrian, Mich. Visible and audible electric signals. 577,291, July 14; Serial No. 625,770, published Apr. 28, 1053. Class 21.

Stanco Incorporated, Wilmington, Del., and New York, N. Y., to Esso Standard Oil Company, New York, N. Y. Mineral oils and compounds, emulsions, and mixtures of mineral oils, etc. 302,905, renewed May 2, 1953. O. G. July 14. Class 18.

Standard Manifold Company, Chicago, Ill. Supporting frames for attachment to office machines. 577,232, July 14; Serial No. 619,370, published Mar. 31, 1953. Class 23.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, New York, N. Y. Refined, semi-refined, and unrefined oils and greases. 302,405, renewed Apr. 18, 1953. O. G. July 14. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, New York, N. Y. Lubricating oils. 302,826, renewed May 2, 1953. O. G. July 14. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, New York, N. Y. Lubricating oils. 303,154, renewed May 16, 1953. O. G. July 14. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, New York, N. Y. Lubricating oils. 303,931, renewed June 13, 1953. O. G. July 14. Class 15.

Stanley Home Products, Inc., Westfield, Mass. Men's cologne, after-shave lotion, after-shave talc, etc. 577,332, July 14; Serial No. 630,865, published Mar. 24, 1953. Class 51.

Steiger, Otto E., South Bend, Ind. Bath enclosures. 577,365, July 14; Serial No. 633,382, published Apr. 14, 1953. Class 12.

Stephens Products Co., Inc., Middletown, Conn. Toy picture projector and film therefor. 577,388, July 14; Serial No. 634,280, published Apr. 28, 1953. Class 22.

Sterling Engine Co., Buffalo, N. Y. Internal combustion engines. 577,316, July 14; Serial No. 629,262, published Mar. 24, 1953. Class 23.

Stetson, John B., Company, Philadelphia, Pa. Hats and caps. 577,240, July 14; Serial No. 620,749, published Apr. 21, 1953. Class 39.

Strictly Georgia: *See*—
Burgess, Lena C.

Strohmeyer & Arpe Company, New York, N. Y. Kippered herring and kipper snacks. 305,355, renewed Aug. 15, 1953. O. G. July 14. Class 46.

Stromberg-Carlson Company, Rochester, N. Y. Dial telephone switching systems, and parts thereof, step-by-step switches, and parts thereof. 577,407, July 14; Serial No. 635,888, published Apr. 28, 1953. Class 21.

Sturgis Posture Chair Company, Sturgis, Mich. Chairs. 577,471, July 14; Serial No. 630,861. Class 32.

Sturtevant, B. F., Company, to Westinghouse Electric Corporation, Boston, Mass. Fans and blowers. 305,272, renewed Aug. 8, 1953. O. G. July 14. Class 34.

Sun Chemical Corporation: *See*—
Warwick Chemical Company.

Sunset Incorporated, Chicago, Ill. Potable distilled alcoholic beverages. 577,181, July 14; Serial No. 596,815, published Apr. 28, 1953. Class 49.

Sunset Incorporated, Chicago, Ill. Distilled liquors. 577,367, July 14; Serial No. 633,437, published Mar. 24, 1953. Class 49.

Supergrate Open Steel Flooring Co.: *See*—
Bostrom, Gustav J.

Supplee-Biddle-Steltz Company, Philadelphia, Pa. Galvanized ware—namely, pails, garbage cans, and baskets. 577,397, July 14; Serial No. 635,103, published Apr. 14, 1953. Class 2.

Sure Strike Bait Co., Alhambra, Calif. Fishing bait, specifically live worms, in moist peatmoss containing food, etc. 577,439, July 14; Serial No. 600,705. Class 1.

Swift & Company, Chicago, Ill. Glycerine used as an ingredient in the manufacture of cosmetics and dentifrices. 577,226, July 14; Serial No. 618,376, published Mar. 24, 1953. Class 51.

Texas Boiler & Machinery Company, Dallas, Tex. Butane storage and shipping tanks. 577,379, July 14; Serial No. 633,951, published Apr. 21, 1953. Class 2.

Texas Company, The, New York, N. Y. Petroleum products. 305,913, renewed Aug. 29, 1953. O. G. July 14. Class 15.

Thorobred Company, The, Cincinnati, Ohio. Dog food. 577,429, July 14; Serial No. 639,837, published Apr. 28, 1953. Class 46.

Tinnerman Products, Inc., Cleveland and Brooklyn Village, Ohio. Sheet metal nuts for screws and bolts. 577,413, July 14; Serial No. 636,393, published Apr. 14, 1953. Class 13.

Tip Top Shoe: *See*—
Pfifferling, Richard.

Tito's Shoe Repairs: *See*—
Cintron, Ezequiel B.

Tom Tucker Beverage Company: *See*—
Harris, Sidney, and Americus.

Toscony Fabrics, Inc., New York, N. Y. Plastic film. 577,457–8, July 14; Serial Nos. 625,137–8. Class 42.

Trianco Limited, East Molesey, England. Snatch eliminators to gradually absorb the shock incident to dropping loads from an aircraft, etc. 577,221, July 14; Serial No. 617,219, published Apr. 14, 1953. Class 19.

Trimfoot Company, Farmington, Mo. Shoes and house slippers. 577,302, July 14; Serial No. 626,970, published Apr. 21, 1953. Class 39.

Tru-Stitch Mocassin Corporation, Malone and New York, N. Y. Women's, misses', and children's shoes, slippers, and moccasins. 577,298, July 14; Serial No. 626,546, published Apr. 7, 1953. Class 39.

TruVal Manufacturers, Inc., New York, N. Y. Business shirts. 577,189, July 14; Serial No. 607,203, published Mar. 31, 1953. Class 39.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Uni-Flo Grille Corporation, Detroit, Mich., to Barber-Colman Company, Rockford, Ill. Grilles through which heated, cooled, or ventilating air is to be passed, etc. 301,603, renewed Mar. 7, 1953. O. G. July 14. Class 34.

Union Bay State Chemical Co., Inc., Cambridge, Mass. 577,207, July 14. Natural and synthetic rubber latex, and dispersions and emulsions of natural resins, and gums. Serial No. 637,808, published Apr. 7, 1953. Class 1; natural and synthetic rubber latex adhesives, natural and synthetic resin adhesives, etc., Serial No. 614,226, published Sept. 2, 1952, Class 5; synthetic resin dispersions, resin emulsions, extenders and modifiers therefor, etc., Serial No. 614,227, published Mar. 17, 1953, Class 6; paints, stains, protective coatings, etc., Serial No. 614,228, published Feb. 10, 1953, Class 16. (Consolidated Certificate, Classes 1, 5, 6, and 16.)

United States Gypsum Company, Chicago, Ill. Attachment system for siding comprising metallic corner pieces, metallic channels and nails. 577,180, July 14; Serial No. 595,801, published Apr. 7, 1953. Class 12.

U. S. Manufacturing Corporation, Decatur, Ill. Electric corn poppers. 577,219, July 14; Serial No. 616,740, published Apr. 7, 1953. Class 21.



Universal Appliance Company, Boston, Mass., to Esso Standard Oil Company, New York, N. Y. Oil burners and equipment for ranges. 302,011, renewed Mar. 21, 1953. O. G. July 14. Class 34.

Universal Winding Company, Cranston, R. I. Spindles and bearings. 577,364, July 14; Serial No. 633,230, published Mar. 24, 1953. Class 23.

Upjohn Company, The, Kalamazoo, Mich. Hormone preparation. 577,247, July 14; Serial No. 622,281, published Apr. 21, 1953. Class 18.

Valley Forge Creations: *See*—
Mathews, Nellson M.

Vandam, Albert H., Co. Inc., by D. B. Fuller & Co., Inc., New York, N. Y. Textile fabrics. 432,973, Sept. 23, 1947. Republished July 14. Class 42.

Ventrallo, Rada F., doing business under the assumed name Ray-Ve Company, Detroit, Mich. Woman's cloth working cap. 577,212, July 14; Serial No. 615,197, published Apr. 14, 1953. Class 39.

Virginia-Carolina Chemical Corporation, Richmond, Va. Synthetic detergent. 577,221, July 14; Serial No. 618,415, published Aug. 5, 1952. Class 52.

Virginia Metal Products Corporation, Orange, Va. Movable metal partitions and structural parts of such partitions, clips and pilaster covers therefor, etc. 577,217, July 14; Serial No. 616,462, published Apr. 7, 1953. Class 12.

Vita+Plus Corporation, Madison, Wis. Vitamin fortifications. 577,286, July 14; Serial No. 625,501, published Apr. 21, 1953. Class 18.

Vita+Plus Corporation, Madison, Wis. Iron sulphate antibiotic feed supplement. 577,287, July 14; Serial No. 625,502, published Apr. 21, 1953. Class 18.

Vita+Plus Corporation, Madison, Wis. Preparation for the treatment of mange in animals. 577,288, July 14; Serial No. 625,503, published Apr. 21, 1953. Class 18.

Vichek Tool Company, The, Cleveland, Ohio. Plastic utility boxes. 577,160, July 14; Serial No. 556,383, published Apr. 21, 1953. Class 2.

Wadsworth Watch Case Company, The, Dayton, Ky. Belt buckles, strap buckles, and metal wrist watch straps. 577,409, July 14; Serial No. 636,042, published Apr. 14, 1953. Class 28.

Wagner Electric Corporation, St. Louis, Mo. Synthetic electrical insulating and/or cooling fluid. 577,369, July 14; Serial No. 633,520, published Apr. 28, 1953. Class 21.

Warren Packing Company, Portland, Oreg., to New England Fish Company, Seattle, Wash. Canned salmon. 91,144, re-renewed Apr. 15, 1953. O. G. July 14. Class 46.

Warren Petroleum Corporation, Tulsa, Okla. Liquified petroleum gas. 577,239, July 14; Serial No. 620,242, published Apr. 14, 1953. Class 6.

Warwick Chemical Company, West Warwick, R. I., to Sun Chemical Corporation, Long Island City, N. Y. Finishing products and softeners. 304,070, renewed June 20, 1953. O. G. July 14. Class 6.

Warwick Chemical Company, West Warwick, R. I., to Sun Chemical Corporation, Long Island City, N. Y. Chemical products. 304,080, renewed June 20, 1953. O. G. July 14. Class 6.

Waukesha Motor Company, Waukesha, Wis. Electrically actuated governors. 577,371, July 14; Serial No. 633,597, published Apr. 28, 1953. Class 21.

Waverley Specialty Co., The: *See*—
Grueter, Carroll B.

Weatherpanel Sidings Inc., Buffalo, N. Y. Insulated sidings. 577,329, July 14; Serial No. 630,691, published Mar. 24, 1953. Class 12.

Weinberg Corporation, Chicago, Ill. Men's and boys' suits, jackets, outer coats, etc. 577,375–6, July 14; Serial Nos. 633,690–1, published Apr. 14, 1953. Class 39.

Wertheimer, J., & Co., Zurich, Switzerland. Brandy. 577,184, July 14; Serial No. 598,286, published Apr. 28, 1953. Class 49.

West End Brewing Company, The: *See*—
Seneca Food Products Corporation.

Western Maryland Dairy: *See*—
Western Maryland Dairy, Inc.

Western Maryland Dairy, Inc., and doing business sometimes under the name Western Maryland Dairy, Baltimore, Md. Fluid milk and cream and condensed milk. 577,166, July 14; Serial No. 567,669, published Sept. 25, 1951. Class 46.

Western Solvents & Chemicals Company, Detroit, Mich. Anti-freeze composition. 577,421, July 14; Serial No. 637,738, published Apr. 28, 1953. Class 6.

Westinghouse Electric Corporation: *See*—
Sturtevant, B. F., Company.

Wheatley, Noah M., doing business as Old Mission Fig Bar Co., by Mother's Cake & Cookie Co., Oakland, Calif. Fig bars. 252,933, Feb. 19, 1929. Republished July 14. Class 46.

White, Wilbur, Chemical Company, Inc., The, Owego, N. Y., to Franklin Research Company, Philadelphia, Pa. Liquid soap. 306,611, renewed Sept. 26, 1953. O. G. July 14. Class 52.

Whittall, M. J., Associates, Inc., Worcester, Mass. Carpets and rugs. 439,242, June 8, 1948. Republished July 14. Class 42.

Whittall, M. J., Associates, Inc., Worcester, Mass. Carpets and rugs. 439,618, July 6, 1948. Republished July 14. Class 42.

Whittall, M. J., Associates, Inc., Worcester, Mass. Carpets and rugs. 440,247, Aug. 17, 1948. Republished July 14. Class 42.

Whittall, M. J., Associates, Inc., Worcester, Mass. Carpets and rugs. 440,822–3, Sept. 28, 1948. Republished July 14. Class 42.

Wilco Company: *See*—
Shotwell, Albert V.

Wil-Kin Theatre Supply, Inc., Wilmington, Del., and Atlanta, Ga. Electrically illuminated, portable, directional signs. 577,361, July 14; Serial No. 632,642, published Apr. 28, 1953. Class 21.

Williams, J. H., & Co., Buffalo, N. Y. Wrenches, wrench sets, wrench sockets, and tool handles. 303,210, renewed May 16, 1953. O. G. July 14. Class 23.

Williamson Candy Company, Chicago, Ill. Candy. 577,347, July 14; Serial No. 632,280, published Apr. 21, 1953. Class 46.

Willson Products, Inc., Reading, Pa. Safety helmets and dust protective hoods and masks. 577,177, July 14; Serial No. 593,314, published Mar. 24, 1953. Class 39.

Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles. 577,374, July 14; Serial No. 633,643, published Apr. 28, 1953. Class 19.

Wilson, Grant, Incorporated, Chicago, Ill. Asbestos woven tape. 577,233, July 14; Serial No. 619,557, published Oct. 14, 1952. Class 12.

Winthrop Chemical Company, Inc., to Winthrop-Stearns Inc., New York, N. Y. Preparation to be used as a specific against granuloma inguinale, bilharziasis, and other protozoal infections. 304,950, renewed July 25, 1953. O. G. July 14. Class 18.

Winthrop-Stearns Inc.: *See*—
Winthrop Chemical Company, Inc.

Wolf Brothers, Inc., Philadelphia, Pa. Paper bags. 577,425–6, July 14; Serial Nos. 638,176–7, published Apr. 21, 1953. Class 2.

Wolferman, Fred, Incorporated, Kansas City, Mo. Dairy products, jams, jellies, etc. 577,179, July 14; Serial No. 593,511, published Apr. 28, 1953. Class 46.

Wolocko, Bronislawa, Salem, Mass. Perfumes and personal deodorants. 577,345, July 14; Serial No. 632,190, published Mar. 31, 1953. Class 51.

Woodhead, Daniel, Company, Chicago, Ill. Electrical equipment. 577,280, July 14; Serial No. 624,988, published Apr. 28, 1953. Class 21.

Zonite Products Corporation: *See*—
Forhan Company, Inc.
Larvex Corporation, The.

Zwaska, William J., Inc., Wauwatosa, Wis. Golf balls, golf clubs, golf bags, etc. 577,391, July 14; Serial No. 634,391, published Apr. 28, 1953. Class 22.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Cellular sponge rubber. Midcontinent Chemical Company. 577,390, July 14; Serial No. 634,378, published Apr. 14, 1953.

Crude natural and synthetic rubber, and linear and rubbery plastics and synthetic resinous materials. The General Tire & Rubber Company. 577,334, July 14; Serial No. 631,156, published Apr. 14, 1953.

Fishing bait, specifically live worms in moist peatmoss containing food, etc. Sure Strike Bait Co. 577,439, July 14; Serial No. 600,705.

Natural and synthetic rubber latex, and dispersions and emulsions of natural resins, and gums. Union Bay State Chemical Co., Inc. Serial No. 637,808, published Apr. 7, 1953. (Consolidated certificate, Classes 1, 5, 6, and 16.)

Plastic sheet material. Minnesota Mining and Manufacturing Company. 577,394, July 14; Serial No. 634,854, published Apr. 7, 1953.

Plastic sheet material, Relatively pliable. The General Tire & Rubber Company. 577,318, July 14; Serial No. 629,663, published Apr. 7, 1953.

Polymeric material, Relatively thick, pliable. The General Tire & Rubber Company. 577,319, July 14; Serial No. 629,665, published Apr. 7, 1953.

Polymeric sheet material, Flexible calendered. The General Tire & Rubber Company. 577,320, July 14; Serial No. 629,667, published Apr. 7, 1953.

Seed, Lawn. Seaboard Seed Company. 577,271, July 14; Serial No. 624,364, published Apr. 14, 1953.

Seed, Lawn. Seaboard Seed Company. 577,272, July 14; Serial No. 624,368, published Apr. 14, 1953.

CLASS 2

Bags, Paper. Bemis Bro. Bag Company. 577,187, July 14; Serial No. 604,716, published Apr. 21, 1953.
Bags, Paper. Wolf Brothers, Inc. 577,425–6, July 14; Serial No. 638,176–7, published Apr. 21, 1953.
Baskets and boxes, Fruit and vegetable. Producer's Exchange, Inc. 577,403, July 14; Serial No. 635,493, published Apr. 21, 1953.
Bottles. Plax Corporation. 577,185, July 14; Serial No. 602,969, published Apr. 21, 1953.
Box, Plastic covered. N. M. Mathews. 577,402, July 14; Serial No. 635,485, published Apr. 21, 1953.
Boxes, Deposit and collection. The Boardman Co. 577,330, July 14; Serial No. 630,752, published Apr. 14, 1953.
Boxes, Plastic utility. The Vichek Tool Company. 577,160, July 14; Serial No. 556,383, published Apr. 21, 1953.
Cartons, Cardboard. Bloomer Bros. Company. 577,366, July 14; Serial No. 633,411, published Apr. 14, 1953.
Cartons, Collapsible paperboard. The Interstate Folding Box Company. 577,384, July 14; Serial No. 634,045, published Apr. 21, 1953.
Cartons, Collapsible paperboard, and bags. The Interstate Folding Box Company. 577,385, July 14; Serial No. 634,046, published Apr. 21, 1953.
Cartons, Egg. Bloomer Bros. Company. 577,417, July 14; Serial No. 637,299, published Apr. 21, 1953.
Cartons, Paperboard. The Gardner Board and Carton Co. 577,222, July 14; Serial No. 617,286, published Apr. 14, 1953.
Cartons, Paper cardboard. House of Kennedy, Inc. 577,301, July 14; Serial No. 626,886, published Apr. 21, 1953.
Cartons, Retail egg. Robert Gair Company, Inc. 577,157, July 14; Serial No. 544,261, published Apr. 21, 1953.
Cartons, Strawboard and woodpulp board cartons. Bowater Paper Company, Inc. 577,308, July 14; Serial No. 627,668, published Apr. 21, 1953.
Cases with kraft outer liners, Corrugated fibreboard shipping, corrugated fibreboard shipping cases with chip straw outer liners, etc. Bowater Paper Company, Inc. 577,372, July 14; Serial No. 633,604, published Apr. 21, 1953.
Caskets, Burial. National Casket Company, Incorporated. 577,400, July 14; Serial No. 635,425, published Apr. 14, 1953.
Coffins. Deutsche Gold- & Silber-Scheideanstalt. 301,117, renewed Feb. 21, 1953. O. G. July 14.
Compacts and lipstick cases. Elizabeth Arden Sales Corporation. 429,905, May 20, 1947. Republished July 14.
Containers, Fibre shipping. Longview Fibre Company. 577,355, July 14; Serial No. 632,483, published Apr. 14, 1953.
Containers, Vinyl plastic. Plastex Protective Products, Inc. 577,341, July 14; Serial No. 631,683, published Apr. 14, 1953.
Flower pots, Perfume-impregnated plastic. Flower Products Company, Inc. 577,478, July 14; Serial No. 638,073.
Galvanized ware—namely, pails, garbage cans and baskets. Supplee-Biddle-Steltz Company. 577,397, July 14; Serial No. 635,103, published Apr. 14, 1953.
Housewares made of metal, namely, match boxes, etc. Harper J. Ransburg Co., Inc. 577,196, July 14; Serial No. 610,462, published Apr. 21, 1953.
Receptacles. Perry Plastics, Inc. 577,169, July 14; Serial No. 579,514, published Apr. 21, 1953.
Sacks, Cotton pick. Bemis Bro. Bag Company. 577,424, July 14; Serial No. 638,057, published Apr. 21, 1953.
Tanks, Butane storage and shipping. Texas Boiler & Machinery Company. 577,379, July 14; Serial No. 633,951, published Apr. 21, 1953.
Trays and tote boxes. G. B. Lewis Company. 577,203, July 14; Serial No. 613,077, published Apr. 7, 1953.

CLASS 3

Handbags, Ladies'. Elizabeth Arden Sales Corporation. 422,609, July 30, 1946. Republished July 14.
Toilet kits, Fitted leather and simulated leather. Klik Promotions, Inc. 577,446, July 14; Serial No. 611,960.

CLASS 4

Aluminum-oxide paper, electric abrasive cloth, garnet roll cloth, etc. H. H. Barton & Son Co. Inc. 171,082, July 31, 1923. Republished July 14.
Soaps, steel wool, washing compounds, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,118, renewed Feb. 21, 1953. O. G. July 14.
Waxes, Polishing and finishing. Minwax Company, Inc. 577,327, July 14; Serial No. 630,542, published Apr. 28, 1953.

CLASS 5

Adhesives. Deutsche Gold- & Silber-Scheideanstalt. 301,119, renewed Feb. 21, 1953. O. G. July 14.
Adhesives. Marbon Corporation. 344,059, Mar. 9, 1937. Republished July 14.
Manufactured gum. American Gum Products Co. 92,500, re-renewed July 15, 1953. O. G. July 14.
Natural and synthetic rubber latex adhesives, natural and synthetic resin adhesives, etc. Union Bay State Chemical Co., Inc. 577,207, July 14; Serial No. 614,226, published Sept. 2, 1952. (Consolidated certificate, Classes 1, 5, 6, and 16.)

CLASS 6

Anti-freeze composition. Western Solvents & Chemicals Company. 577,421, July 14; Serial No. 637,738, published Apr. 28, 1953.
Aromatic diazoamino compounds. General Dyestuff Corporation. 577,410, July 14; Serial No. 636,075, published Apr. 7, 1953.
Borax; boric acid; bromides, etc. American Potash & Chemical Corporation. 577,317, July 14; Serial No. 629,470, published Apr. 28, 1953.
Carbon black. Godfrey L. Cabot, Inc. 304,537, renewed July 11, 1953. O. G. July 14.
Chemical products. Warwick Chemical Company. 304,080, renewed June 20, 1953. O. G. July 14.
Disinfectant, household deodorant, sterilizing solution; etc. N. V. Chemische Industrie "Rids." 577,250, July 14; Serial No. 622,613, published Apr. 28, 1953.
Emulsifying agent. Pennsylvania Refining Company. 577,303, July 14; Serial No. 627,216, published Apr. 28, 1953.
Finishing products and softeners. Warwick Chemical Company. 304,070, renewed June 20, 1953. O. G. July 14.
Fungicides. F. W. Berk & Company, Inc. 577,254, July 14; Serial No. 622,918, published Apr. 28, 1953.
Hydraulic fluid. Earle Research Laboratory. 577,432, July 14; Serial No. 641,132, published Apr. 28, 1953.
Insecticides. California Spray-Chemical Corporation. 577,418, July 14; Serial No. 637,568, published Apr. 28, 1953.
Liquified petroleum gas. Warren Petroleum Corporation. 577,239, July 14; Serial No. 620,242, published Apr. 14, 1953.
Preparation for use as a household deodorant and disinfectant. W. L. Abele. 577,295, July 14; Serial No. 625,947, published Apr. 28, 1953.
Rubber accelerator. The General Tire & Rubber Company. 577,430, July 14; Serial No. 640,621, published Apr. 28, 1953.
Shoe dressings. A. V. Shotwell. 303,387, renewed May 23, 1953. O. G. July 14.
Synthetic resin dispersions, resin emulsions, extenders and modifiers therefor, etc. Union Bay State Chemical Co., Inc. 577,207, July 14; Serial No. 614,227, published Mar. 17, 1953. (Consolidated certificate, Classes 1, 5, 6, and 16.)
Synthetic resinous material. Shawinigan Products Corporation. 290,741, Jan. 12, 1932. Republished July 14.
Tanning agent, Synthetic. American Cyanamid Company. 577,431, July 14; Serial No. 640,661, published Apr. 28, 1953.
Welding flux. Solar Aircraft Company. 577,433, July 14; Serial No. 641,215, published Apr. 28, 1953.

CLASS 9

Dynamite and blasting powders and the like, matches, fireworks, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,122, renewed Feb. 21, 1953. O. G. July 14.
Shot shells and air rifle shot. Federal Cartridge Corporation. 577,427, July 14; Serial No. 638,197, published Apr. 28, 1953.
Smokeless powder. Hercules Powder Company. 93,598, re-renewed Sept. 30, 1953. O. G. July 14.

CLASS 10

Fertilizer. The Colorado Fuel and Iron Company. 306,521, renewed Sept. 19, 1953. O. G. July 14.
Fertilizers. Deutsche Gold- & Silber-Scheideanstalt. 301,123, renewed Feb. 21, 1953. O. G. July 14.

CLASS 11

Ink, Writing, printers' ink and colors. Deutsche Gold- & Silber-Scheideanstalt. 301,124, renewed Feb. 21, 1953. O. G. July 14.

CLASS 12

Asbestos-cement board. The Ruberoid Co. 577,454, July 14; Serial No. 624,360.
Asbestos woven tape. Grant Wilson Incorporated. 577,233, July 14; Serial No. 619,557, published Oct. 14, 1952.
Asphaltic compounds and emulsions. J. F. Bremner. 577,182, July 14; Serial No. 593,646, published Mar. 31, 1953.
Attachment system for siding comprising metallic corner pieces, metallic channels and nails. United States Gypsum Company. 577,180, July 14; Serial No. 595,801, published Apr. 7, 1953.
Bath enclosures. O. E. Steiger. 577,365, July 14; Serial No. 633,382, published Apr. 14, 1953.
Bituminous emulsions. Pioneer Paper Company. 302,734, renewed Apr. 25, 1953. O. G. July 14.
Caulking and packing materials, prepared building stones, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,125, renewed Feb. 21, 1953. O. G. July 14.
Cement, Water proof. The Colorado Portland Cement Company. 245,460, Aug. 14, 1928. Republished July 14.



Concrete brick. W. E. Dunn Manufacturing Company. 577,200, July 14; Serial No. 612,054, published Apr. 7, 1953.
Concrete building brick, blocks, and wall tile. W. E. Dunn Manufacturing Company. 577,197, July 14; Serial No. 611,022, published Apr. 21, 1953.
Concrete prefabricated wall panels and posts. R. V. Cayce. 577,176, July 14; Serial No. 591,912, published Mar. 18, 1952.
Construction elements. Chemische Fabrik Griesheim. 577,192–3, July 14; Serial Nos. 608,971–2, published Mar. 17, 1953.
Corrugated ferroue metal head walls, arches, backwalls, etc. Armco Steel Corporation. 577,337, July 14; Serial No. 631,397, published Apr. 14, 1953.
Crack and crevice filler. The Marietta Paint & Color Co. 332,467, Feb. 18, 1936. Republished July 14.
Doors. Atlas Overhead Door Company. 444,782, July 14; Serial No. 517,884, published Nov. 2, 1948.
Flooring, Open-type. G. J. Bostrom. 577,161, July 14; Serial No. 557,727, published Mar. 17, 1953.
Insulated sidings. Weatherpanel Sidings Inc. 577,329, July 14; Serial No. 630,691, published Mar. 24, 1953.
Movable metal partitions and structural parts of such partitions, clips and plaster covers therefor, etc. Virginia Metal Products Corporation. 577,217, July 14; Serial No. 616,462, published Apr. 7, 1953.
Plastic filler, Resinous. Eutectic Welding Alloys Corporation. 577,326, July 14; Serial No. 630,483, published Mar. 24, 1953.
Roof covering material. Panther Oil & Grease Mfg. Co. 577,266, July 14; Serial No. 623,983, published Apr. 14, 1953.
Roofing and siding, Aluminum, aluminum windows, aluminum awnings, etc. Aluminium Caribe Incorporated. 577,416, July 14; Serial No. 637,293, published Apr. 21, 1953.
Sealing compound, Powdered and liquid, and pipe joint cement. J. A. Sexauer Mfg. Co., Inc. 577,220, July 14; Serial No. 616,970, published Mar. 17, 1953.
Storm screen and sash, Combination. I. Schwartz. 577,324, July 14; Serial No. 630,155, published Mar. 24, 1953.
Thresholds. The Oscar C. Rixson Co. 577,331, July 14; Serial No. 630,793, published Mar. 24, 1953.
Volcanic glass, Expanded and vesiculated. Great Lakes Carbon Corporation. 577,183, July 14; Serial No. 597,827, published Mar. 24, 1953.
Wall panels, Architectural. Armstrong Cork Company. 577,267, July 14; Serial No. 624,118, published Apr. 21, 1953.

CLASS 13

Flexible metallic racks. E. Greensfelder. 577,168, July 14; Serial No. 569,558, published Apr. 14, 1953.
Fountain cleaning and defrosting apparatus. C. B. Grueter. 577,456, July 14; Serial No. 625,068.
Guards for flush valve handles. R. W. Downin. 577,414, July 14; Serial No. 636,558, published Apr. 14, 1953.
Metal fastening devices. The Palnut Company. 577,412, July 14; Serial No. 636,378, published Apr. 14, 1953.
Mounting brackets. Rival Manufacturing Company. 577,294, July 14; Serial No. 625,820, published Oct. 7, 1952.
Nuts for screws and bolts, Sheet metal. Tinnerman Products, Inc. 577,413, July 14; Serial No. 636,393, published Apr. 14, 1953.
Ornamental metal scrolls. H. V. Benner. 577,440, July 14; Serial No. 600,943.
Plumbing fittings. Kohler Co. 577,392, July 14; Serial No. 634,599, published Apr. 28, 1953.
Reinforced plastic pipe, tubing, pipe fittings, etc. H. D. Boggs Company, Ltd. 577,215, July 14; Serial No. 615,811, published Apr. 28, 1953.
Screws, bolts, nuts, etc. Continental Screw Company. 577,206, July 14; Serial No. 625,970, published Apr. 21, 1953.
Syphon valve, Manually controlled. Multi-Meter Corporation. 577,396, July 14; Serial No. 634,947, published Apr. 28, 1953.
Valves, Pressure regulating. Minneapolis-Honeywell Regulator Company. 577,260, July 14; Serial No. 623,556, published Apr. 14, 1953.

CLASS 14

Brass, bronze and nickel silver mill products. Scovill Manufacturing Company. 577,202, July 14; Serial No. 612,708, published Apr. 21, 1953.
Cobalt chromium alloys. Austenal Laboratories, Incorporated. 577,389, July 14; Serial No. 634,288, published Apr. 21, 1953.
Corrosion-resisting alloys and castings made therefrom. Lynchburg Foundry Company. 305,228, renewed Aug. 8, 1953. O. G. July 14.
Steel bars, Hot rolled and cold finished alloy. The Plomb Tool Company. 577,268, July 14; Serial No. 624,205, published Apr. 21, 1953.

CLASS 15

Oils and greases, Refined, semi-refined and unrefined. Standard Oil Company of New Jersey. 302,405, renewed Apr. 18, 1953. O. G. July 14.



Oils, Lubricating. The Atlantic Refining Company. 305,861, renewed Aug. 22, 1953. O. G. July 14.
Oils, Lubricating. Standard Oil Company of New Jersey. 302,826, renewed May 2, 1953. O. G. July 14.
Oils, Lubricating. Standard Oil Company of New Jersey. 303,154, renewed May 16, 1953. O. G. July 14.
Oils, Lubricating. Standard Oil Company of New Jersey. 303,931, renewed June 13, 1953. O. G. July 14.
Petroleum products. The Texas Company. 305,913, renewed Aug. 29, 1953. O. G. July 14.

CLASS 16

Carbon black for use in the manufacture of varnishes and lacquers. Godfrey L. Cabot Inc. 302,707, renewed Apr. 25, 1953. O. G. July 14.
Paint, Interior floor, porch and deck paint, automobile paint enamels, etc. The Marietta Paint & Color Co. 150,891, Jan. 10, 1922. Republished July 14, 1953.
Paint, Interior wall. The Marietta Paint & Color Co. 311,726, Apr. 3, 1934. Republished July 14, 1953.
Paints and lacquers, Pigmented and unpigmented. Bee Chemical Company. 577,450, July 14; Serial No. 619,443.
Paints, Ready-mixed and semi paste, and paint colors. The Martin-Senour Company. 577,447, July 14; Serial No. 612,697.
Paints, stains, protective coatings, etc. Union Bay State Chemical Co., Inc. 577,207, July 14; Serial No. 614,228, published Feb. 10, 1953. (Consolidated certificate Classes 1, 5, 6, and 16.)
Shellac, Artificial. Chemische Forschungsgesellschaft m. b. H. 577,475, July 14; Serial No. 633,823.
Substitute for linseed-oil. Berry Brothers Ltd. 93,327, re-newed Sept. 9, 1953. O. G. July 14.
Varnish stain. The Marietta Paint & Color Co. 94,189, Nov. 11, 1913. Republished July 14.
Varnishes. Berry Brothers. 92,782, re-renewed July 29, 1953. O. G. July 14.
Varnishes, Clear, ready mixed paints, varnish enamels, etc. O'Brien Varnish Company. 306,189, renewed Sept. 12, 1953. O. G. July 14.
Water-emulsion dressing. Maury-Young Company, 577,448, July 14; Serial No. 613,939.

CLASS 17

Cigars. Garcia & Vega. 92,886, re-renewed Aug. 5, 1953. O. G. July 14.

CLASS 18

Antiseptic powder. Mojeste Laboratories. 306,735, renewed Sept. 26, 1953. O. G. July 14.
Extract of skeleton-muscles. Chemische und Pharmaxeutische Werk. 297,424, renewed Sept. 13, 1952. O. G. July 14.
Herb compound medicine and liniment. E. E. Rice. 577,423, July 14; Serial No. 638,035, published May 5, 1953.
Hormone preparation. The Upjohn Company. 577,247, July 14; Serial No. 622,281, published Apr. 21, 1953.
Iron sulphate antibiotic feed supplement. Vita + Plus Corporation. 577,287, July 14; Serial No. 625,502, published Apr. 21, 1953.
Mineral oils and compounds, emulsions, and mixtures of mineral oils, etc. Stanco Incorporated. 302,905, renewed May 2, 1953. O. G. July 14.
Ointment. G. H. French. 577,164, July 14; Serial No. 565,699, published Apr. 14, 1953.
Pharmaceutical preparation. Physicians and Hospitals Supply Company, Inc. 306,646, renewed Sept. 26, 1953. O. G. July 14.
Preparation for the treatment of mange in animals. Vita + Plus Corporation. 577,288, July 14; Serial No. 625,503, published Apr. 21, 1953.
Preparation to be used as a specific against granuloma inguinale, bilharziasis, and other protozoal infections. Winthrop Chemical Company, Inc. 304,950, renewed July 25, 1953. O. G. July 14.
Skin powder. G. S. Heyer. 306,689, renewed Sept. 26, 1953. O. G. July 14.
Tablets for pains, dysmenorrhea, etc. Professional Products Corporation. 302,070, renewed Mar. 28, 1953. O. G. July 14.
Theophylline, Improved. A. Moussalli. 577,306, July 14; Serial No. 627,453, published Apr. 14, 1953.
Vitamin fortifications. Vita + Plus Corporation. 577,286, July 14; Serial No. 625,501, published Apr. 21, 1953.

CLASS 19

Automobiles. Willys-Overland Motors, Inc. 577,374, July 14; Serial No. 633,643, published Apr. 28, 1953.
Automobiles and chassis. Humber Limited. 577,225, July 14; Serial No. 618,030, published Apr. 28, 1953.
Boats, Inflatable, and inflatable floats. New York Rubber Corporation. 577,350, July 14; Serial No. 632,312, published Apr. 28, 1953.
Doilies and wheel balancing weights. Lempco Products, Inc. 577,213, July 14; Serial No. 615,236, published Apr. 28, 1953.
Motorcycles. Indian Sales Corporation. 577,395, July 14; Serial No. 634,940, published Apr. 28, 1953.
Motor vehicles. International Harvester Company. 577,435, July 14; Serial No. 642,355, published Apr. 28, 1953.

Molding trim for automobiles, Metal. Production Moulding Corporation. 577,265, July 14; Serial No. 623,907, published Apr. 28, 1953.

Platform assemblies particularly adapted for use as the floor panel of portable compartments such as house trailers. Anderson Coach Company. 577,273, July 14; Serial No. 624,381, published Apr. 28, 1953.

Snatch eliminators to gradually absorb the shock incident to dropping loads from an aircraft, etc. Trianco Limited. 577,221, July 14; Serial No. 617,219, published Apr. 14, 1953.

Vehicle hardware. General Motors Corporation. 577,313, July 14; Serial No. 628,936, published Apr. 28, 1953.

CLASS 21

Amplifying equipment, Electrical. Sorkin Music Company, Inc. 577,368, July 14; Serial No. 633,514, published Apr. 28, 1953.

Annunciator instruments and component parts thereof, Electrical. Panalarm Products, Inc. 577,378, July 14; Serial No. 633,786, published Apr. 28, 1953.

Batteries, Vehicle storage. The Dayton Rubber Company. 577,299, July 14; Serial No. 626,660, published Apr. 28, 1953.

Defrosters for refrigerators, Automatic electric, and electric sockets, switches, etc. 577,311, July 14; Serial No. 628,106, published Apr. 14, 1953.

Electric arc-welding apparatus. Cecil C. Peck Company. 577,281, July 14; Serial No. 625,026, published Apr. 28, 1953.

Electric cables and for electric cable systems. The Okonite-Callender Cable Company, Incorporated. 303,168, renewed May 16, 1953. O. G. July 14.

Electric car couplers, trolley pole catchers and retrievers, trolley pole bases, etc. The Ohio Brass Company. 577,255, July 14; Serial No. 623,008, published Apr. 28, 1953.

Electric circuit breakers. Heinemann Electric Company. 577,238, July 14; Serial No. 620,158, published Apr. 28, 1953.

Electric corn poppers. U. S. Manufacturing Corporation. 577,219, July 14; Serial No. 616,740, published Apr. 7, 1953.

Electric equipment and accessories. Automatic Telephone and Electric Company Limited. 577,236, July 14; Serial No. 620,082, published Apr. 7, 1953.

Electric hammers and parts thereof, Hand supported. Kango Electric Hammers Limited. 577,216, July 14; Serial No. 616,104, published Apr. 28, 1953.

Electric motors. Banning Electrical Products Corporation. 577,198, July 14; Serial No. 611,124, published Apr. 28, 1953.

Electric signals, Visible and audible. Sperti Faraday Inc. 577,291, July 14; Serial No. 625,770, published Apr. 28, 1953.

Electric storage battery separators and retainers. The Electric Storage Battery Company. 302,956, renewed May 2, 1953. O. G. July 14.

Electric tools, Portable. Invincible Tool Company, Inc. 577,300, July 14; Serial No. 626,793, published Apr. 28, 1953.

Electrical apparatus. Phalo Plastics Corporation. 577,386, July 14; Serial No. 634,161, published Apr. 28, 1953.

Electrical connectors, Sheathed. National Products Corporation. 577,449, July 14; Serial No. 615,846.

Electrical equipment. Daniel Woodhead Company. 577,280, July 14; Serial No. 624,088, published Apr. 28, 1953.

Electrical insulating and/or cooling fluid, Synthetic. Wagner Electric Corporation. 577,369, July 14; Serial No. 633,520, published Apr. 28, 1953.

Electrical insulatory material. Dow Corning Corporation. 577,235, July 14; Serial No. 619,811, published Mar. 24, 1953.

Electrically actuated governors. Waukesha Motor Company. 577,371, July 14; Serial No. 633,597, published Apr. 28, 1953.

Electrically illuminated, portable, directional signs. Wil-Kin Theatre Supply, Inc. 577,361, July 14; Serial No. 632,642, published Apr. 28, 1953.

Electrically operated device for automatically operating traverse draperies. G. Mitchell. 577,269, July 14; Serial No. 624,286, published Apr. 28, 1953.

Enclosed apparatus for charging and discharging electrical storage batteries and parts thereof, etc. Curtis Development & Mfg. Co. 577,178, July 14; Serial No. 593,400, published Dec. 9, 1952.

Flashlights and parts therefor. Blake Manufacturing Corporation. 577,289, July 14; Serial No. 625,655, published Apr. 21, 1953.

Heating devices, Electrical. J. B. Tile Company. 577,230, July 14; Serial No. 619,138, published Apr. 28, 1953.

Ignition and starting apparatus for internal combustion engines and electric lighting systems for moving vehicles, etc. American Bosch Corporation. 577,328, July 14; Serial No. 630,565, published Apr. 7, 1953.

Lamps, Electric incandescent, electric wire connectors, electric attachment plugs, etc. Solar Electric Corporation. 577,325, July 14; Serial No. 630,355, published Apr. 28, 1953.

Lighting fixtures, and parts therefor, Incandescent, fluorescent, and cold cathode electric. Fullerton Manufacturing Corporation. 577,283, July 14; Serial No. 625,199, published Apr. 28, 1953.

Magnetic chucks. Hanchett Magna-Lock Corporation. 577,209, July 14; Serial No. 614,930, published Apr. 28, 1953.

Pole line equipment, Complete. Joslyn Mfg. and Supply Co. 577,165, July 14; Serial No. 567,081, published Apr. 28, 1953.

Reflectors for electric lamps, Light. Miro Flector Co., Inc. 577,290, July 14; Serial No. 625,750, published Apr. 28, 1953.

Sound recording and reproducing machines, Electrically-operated. Dictaphone Corporation. 577,285, July 14; Serial No. 625,464, published Apr. 28, 1953.

Specially coated metal electrode. Eutectic Welding Alloys Corporation. 577,229, July 14; Serial No. 618,960, published Apr. 7, 1953.

Steamers, Electrically operated wallpaper. W. A. Prain. 577,382, July 14; Serial No. 633,997, published Apr. 28, 1953.

Supersonic electrical vibration apparatus. H. R. Hilliker & Co. 577,237, July 14; Serial No. 620,102, published Apr. 28, 1953.

Switching systems, and parts thereof, Dial telephone, step-by-step switches, and parts thereof. Stromberg-Carlson Company. 577,407, July 14; Serial No. 635,888, published Apr. 28, 1953.

CLASS 22

Balls, Golf, golf clubs, golf bags, etc. William J. Zwaska, Inc. 577,391, July 14; Serial No. 634,391, published Apr. 28, 1953.

Dolls. C. T. North. 577,468, July 14; Serial No. 630,506.

Fishing lines, fishing reels, fishing rods, etc. Société Anonyme La Soie. 577,362, July 14; Serial No. 632,731, published Apr. 28, 1953.

Fishing tackle. A. MacKenzie, Jr. 577,224, July 14; Serial No. 617,802, published Apr. 28, 1953.

Game. H. Norrholm. 577,470, July 14; Serial No. 630,787.

Game apparatus. The Hopkins Syndicate, Inc. 577,173, July 14; Serial No. 589,213, published Apr. 28, 1953.

Game cards. Dalton Film Company. 577,428, July 14; Serial No. 639,361, published Apr. 28, 1953.

Game, Fortune-telling. H. Englebert. 577,278, July 14; Serial No. 624,680, published Apr. 28, 1953.

Golf practice machine with cord and ball assembly. A. E. Peterson Manufacturing Co. 577,228, July 14; Serial No. 618,712, published Apr. 28, 1953.

Sleeping bags for outdoor camping use and pack boards. Far North Sportsmens Supply Inc. 577,249, July 14; Serial No. 622,587, published Apr. 28, 1953.

Sporting goods. Ames Harris Neville Co. 577,354, July 14; Serial No. 632,461, published Apr. 28, 1953.

Swimming devices, Rubber inflatable. New York Rubber Corporation. 577,348–9, July 14; Serial Nos. 632,308–9, published Apr. 28, 1953.

Swimming devices, Rubber inflatable. New York Rubber Corporation. 577,351, July 14; Serial No. 632,313, published Apr. 28, 1953.

Toy. New York Patent Corporation. 577,323, July 14; Serial No. 630,145, published Apr. 28, 1953.

Toy, Aerial kite. J. M. Peterson. 577,472, July 14; Serial No. 631,252.

Toy paint sets, Children's. Detro Manufacturing & Sales Co., Inc. 577,258, July 14; Serial No. 623,272, published Apr. 28, 1953.

Toy picture projector and film therefor. Stephena Products Co., Inc. 577,388, July 14; Serial No. 634,280, published Apr. 28, 1953.

CLASS 23

Atomizers for spraying insecticides, mothproofing compositions, etc. The Larvex Corporation. 304,195, renewed June 27, 1953. O. G. July 14.

Farm machinery. Comfort Equipment Company. 577,338, July 14; Serial No. 631,469, published Mar. 24, 1953.

Friction bearings and parts thereof, bushings, rebabbitted connecting rods and parts thereof, etc. Federal-Mogul Corporation. 577,245, July 14; Serial No. 622,017, published Mar. 24, 1953.

Glass cutters and parts thereof; wood scrapers; putty knives; etc. Black Panther Tool Company. 577,214, July 14, Serial No. 615,681, published Mar. 17, 1953.

Internal combustion engines. Sterling Engine Co. 577,316, July 14 Serial No. 629,262, published Mar. 24, 1953.

Internal combustion engines, air compressors and pneumatic tools. Schramm Inc. 577,190, July 14; Serial No. 607,687, published Apr. 28, 1953.

Kitchen articles, food preparation devices, fire tool sets, etc. Miller and Rhoads, Incorporated. 577,256, July 14; Serial No. 623,105, published Mar. 24, 1953.

Loom check straps, Textile. Alexander Brothers Belting Company. 577,343, July 14; Serial No. 631,840, published Mar. 24, 1953.

Machines for inserting and lacing fasteners in conveyor belting. Mastabar Belt Fastener Co. Limited. 577,270, July 14; Serial No. 624,346, published Apr. 14, 1953.

Saws and parts thereof, Chain. Lombard Governor Corporation. 577,370, July 14; Serial No. 633,583, published Mar. 24, 1953.



Saws, planer knives, and circular knives. Henry Disston & Sons, Inc. 306,052, renewed Sept. 5, 1953. O. G. July 14.

Spindles and bearings. Universal Winding Company. 577,364, July 14; Serial No. 633,230, published Mar. 24, 1953.

Supporting frames for attachment to office machines. Standard Manifold Company. 577,232, July 14; Serial No. 619,370, published Mar. 31, 1953.

Typewriters and parts thereof. Carl Dowling. 577,373, July 14; Serial No. 633,610, published Mar. 24, 1953.

Washing and sanitizing machines, Hydraulic. Inventrust, Inc. 577,162, July 14; Serial No. 559,710, published Mar. 31, 1953.

Wrenches, wrench sets, wrench sockets, and tool handles. J. H. Williams & Co. 303,210, renewed May 10, 1953. O. G. July 14.

CLASS 25

Handcuffs or manacles. Argus Manufacturing Company. 303,932, renewed June 13, 1953. O. G. July 14.

Locks and parts thereof, Door. General Motors Corporation. 577,314, July 14; Serial No. 628,938, published Apr. 21, 1953.

CLASS 26

Cameras and sensitized films. Atlas Supply Company. 304,359, renewed July 4, 1953. O. G. July 14.

Sensitized cinematographic and photographic films. Ilford, Limited. 305,002, renewed July 25, 1953. O. G. July 14.

Spectacles and spectacle lenses. L. M. Prince Co. 577,444, July 14; Serial No. 609,379.

Spectacles and sunglasses, Specially constructed. L. S. La Bard. 577,259, July 14; Serial No. 623,420, published Jan. 27, 1953.

CLASS 28

Bracelets and watch bracelets and watch straps. Gemex Company. 577,419, July 14; Serial No. 637,652, published Apr. 14, 1953.

Bracelets, bands and straps, Wrist watch. Omega Louis Brandt & Frère, S. A. 577,415, July 14; Serial No. 637,075, published Apr. 14, 1953.

Bracelets, necklaces, earrings, etc. Helena Rubinstein, Inc. 577,208, July 14; Serial No. 614,720, published Apr. 14, 1953.

Buckles, Belt, strap buckles, and metal wrist watch straps. The Wadsworth Watch Case Company. 577,409, July 14; Serial No. 636,042, published Apr. 14, 1953.

Jewelry. Coro, Inc. 577,411, July 14; Serial No. 636,348, published Apr. 14, 1953.

Jewelry ornaments, Self attaching costume. Jutons, Inc. 577,204, July 14; Serial No. 613,407, published Apr. 14, 1953.

Silverplated flat tableware. Home Decorators, Inc. 577,206, July 14; Serial No. 614,051, published Apr. 24, 1953.

Silverplated hollowware. Oneida Ltd. 577,422, July 14; Serial No. 637,788, published Apr. 14, 1953.

Sterling silve and silver-plated flatware, hollowware and table cutlery. The Alvin Corporation. 577,420, July 14; Serial No. 637,678, published Apr. 14, 1953.

CLASS 29

Powder puffs. M. Levy. 93,605, re-renewed Sept. 30, 1953. O. G. July 14.

CLASS 32

Bed springs and mattresses. C. Fuchs. 303,016, renewed May 9, 1953. O. G. July 14.

Chairs. Sturgis Posture Chair Company. 577,471, July 14; Serial No. 630,861.

Table and chair sets. The Dinon Corporation. 577,469, July 14; Serial No. 630,528.

Tables and upholstered furniture. Globe Parlor Furniture Co. 577,452, July 14; Serial No. 622,404.

CLASS 34

Burners, Oil, and equipment for ranges. Universal Appliance Company. 302,011, renewed Mar. 21, 1953. O. G. July 14.

Fans and blowers. B. F. Sturtevant Company. 305,272, renewed Aug. 8, 1953. O. G. July 14.

Fireplace screens. Bennett Fireplace Corporation. 306,788, renewed Sept. 26, 1953. O. G. July 14.

Grilles through which heated, cooled, or ventilating air is to be passed, etc. Uni-Flo Grille Corporation. 301,603, renewed Mar. 7, 1953. O. G. July 14.

CLASS 35

Piston rings. Ramsey Corporation. 577,353, July 14; Serial No. 632,442, published Apr. 28, 1953.

Tires, Rubber vehicle. The Dayton Rubber Company. 577,312, July 14; Serial No. 628,145, published Apr. 28, 1953.

CLASS 36

Phonograph records, Grooved. W. Hoffman. 577,473, July 14; Serial No. 631,486.

CLASS 37

Paper, Wrapping. Orchard Paper Co. 577,459, July 14; Serial No. 625,486.

Tracing cloth and tracing paper. The Red Bridge Book Cloth Company, Limited. 303,577, renewed May 30, 1953. O. G. July 14.

CLASS 38

Cartoons. King Features Syndicate, Inc. 304,757, renewed July 18, 1953. O. G. July 14.

Periodicals. The Maujer Publishing Company. 577,464, July 14; Serial No. 627,206.

Publication. Comprex Oscillator Corporation. 303,818, renewed June 6, 1953. O. G. July 14.

Publications, Periodical. Golf Course Superintendents Association of America. 577,477, July 14; Serial No. 637,820.

CLASS 39

Aprons, Plastic film, shampoo capes, cosmetic capes, etc. Plastic Film Products Corporation. 577,248, July 14; Serial No. 622,457, published Apr. 21, 1953.

Aprons, Women's and misses' textile. L. Nachman & Son, Inc. 577,244, July 14; Serial No. 621,371, published Apr. 21, 1953.

Boots and shoes, Leather. P. W. Minor & Son. 40,815, re-renewed July 28, 1953. O. G. July 14.

Boots and shoes, Leather and rubber. F. & F. Shoe Company. 577,333, July 14; Serial No. 631,000, published Apr. 21, 1953.

Boots and shoes, Rubber, rubber overshoes, and rubber-soled canvas boots and shoes. Hood Rubber Company. 91,874, re-renewed June 3, 1953. O. G. July 14.

Boots, Ski, shoes and boots. Schuhfabrik Henke & Co. Aktiengesellschaft. 577,335, July 14; Serial No. 631,221, published Apr. 21, 1953.

Cap, Woman's cloth working. R. F. Ventrallo. 577,212, July 14; Serial No. 615,197, published Apr. 14, 1953.

Clothing. The B. V. D. Company, Inc. 577,261, July 14; Serial No. 623,581, published Mar. 31, 1953.

Clothing, Boys'. Nunnally & McCrea Company, Inc. 577,194, July 14; Serial No. 609,809, published Apr. 14, 1953.

Coats and suits, Misses' and women's. Linker & Herbert, Inc. 577,398, July 14; Serial No. 635,227, published Apr. 21, 1953.

Coats, Ladies' and misses'. Dave Bellsey Co. Inc. 577,282, July 14; Serial No. 625,187, published Apr. 21, 1953.

Coats, suits, jackets, etc., Ladies' and misses'. The House of Swansdown, Inc. 577,380, July 14; Serial No. 633,982, published Apr. 21, 1953.

Collar linings for shirts, Pre-cut. Dubin-Haskell Lining Corporation. 577,218, July 14; Serial No. 616,548, published Apr. 21, 1953.

Corsets, corselettes, girdles, etc., Ladies' and misses'. Femode Foundations, Inc. 577,479, July 14; Serial No. 640,505.

Dresses, coats, dress ensembles, Ladies', misses', and children's. Kenwood Modes Corp. 577,307, July 14; Serial No. 627,549, published Apr. 21, 1953.

Dresses, Women's. Dan Novick & Co., Not Inc. 577,243, July 14; Serial No. 621,284, published Apr. 21, 1953.

Dungarees, Boys'. Blue Bell, Inc. 577,455, July 14; Serial No. 624,463.

Footwear, Men's, women's, and children's. The Ainsworth Shoe Company. 577,404, July 14; Serial No. 635,618, published Apr. 21, 1953.

Garment, Combination. Model Brassiere Co. Inc. 303,917, renewed June 13, 1953. O. G. July 14.

Garments, Fur. International Fur and Leather Workers Union of the United States and Canada. 577,437, July 14; Serial No. 609,927, published Apr. 14, 1953.

Hats and caps. John B. Stetson Company. 577,240, July 14; Serial No. 620,749, published Apr. 21, 1953.

Hats, dresses, gloves, etc., Women's. Lilly Dache, Inc. 577,342, July 14; Serial No. 631,790, published Apr. 14, 1953.

Helmets, Safety, and dust protective hoods and masks. Willson Products, Inc. 577,177, July 14; Serial No. 593,314, published Mar. 24, 1953.

Hosiery. Massachusetts Knitting Mills. 300,584, renewed Jan. 24, 1953. O. G. July 14.

Moccasins. F. F. Baugh. 577,284, July 14; Serial No. 625,327, published Apr. 7, 1953.

Neckties. Skoolie Company. 577,406, July 14; Serial No. 635,792, published Apr. 14, 1953.

Negligees, Ladies' and misses'. Maxan Negligees, Inc. 577,223, July 14; Serial No. 617,374, published Apr. 21, 1953.

Shirts, Business. Truval Manufacturers, Inc. 577,189, July 14; Serial No. 607,203, published Mar. 31, 1953.

Shirts, negligee shirts, collars, Men's dress. I. Janov-Abeles Shirt Co. 299,869, renewed Dec. 27, 1952. O. G. July 14.

Shirts, sport coats, jackets, etc., Men's and boys' sport. Lustberg, Nast & Co., Inc. 577,352, July 14; Serial No. 632,435, published Apr. 14, 1953.

Shoes. Jarman Shoe Company. 302,698, renewed Apr. 25, 1953. O. G. July 14.

Shoes, R. Pfifferling. 577,363, July 14; Serial No. 633,121, published Apr. 21, 1953.

Shoes, Plymouth Shoe Company. 577,264, July 14; Serial No. 623,676, published Apr. 21, 1953.

Shoes and house slippers. Trimfoot Company. 577,302, July 14; Serial No. 626,970, published Apr. 21, 1953.
Shoes and slippers, Men's and women's. A. S. Beck Shoe Corporation. 577,401, July 14; Serial No. 635,456, published Apr. 21, 1953.
Shoes, Athletic. The Athletic Shoe Company. 577,186, July 14; Serial No. 603,177, published Apr. 21, 1953.
Shoes, Children's. B. Altman & Co. 577,393, July 14; Serial No. 634,830, published Apr. 21, 1953.
Shoes, Men's and boys'. Modern Shoe Company. 577,199, July 14; Serial No. 611,184, published Apr. 21, 1953.
Shoes, Men's, women's and children's. Shoe Corporation of America. 577,399, July 14; Serial No. 635,328, published Apr. 7, 1953.
Shoes, Women's. M. Beckerman & Sons, Inc. 577,231, July 14; Serial No. 619,184, published Apr. 21, 1953.
Shoes, slippers, and moccasins, Women's, misses', and children's. Tru-Stitch Moccasin Corporation. 577,298, July 14; Serial No. 626,546, published Apr. 7, 1953.
Suits, jackets, outer coats, etc, Men's and boys'. Weinberg Corporation. 577,375–6, July 14; Serial Nos. 633,690–1, published Apr. 14, 1953.
Suits, Men's. Merit Clothing Company. 577,476, July 14; Serial No. 634,601.
Suits, topcoats, overcoats, Men's. D. Richard. 577,467, July 14; Serial No. 630,026.
Sweaters, pullover sweaters, skirts, etc., Ladies' and misses' cardigan. Scot-Mates Sportswear, Ltd. 577,279, July 14; Serial No. 624,707, published Apr. 21, 1953.
Ties, Men's. The May Department Stores Company. 301,322, Feb. 28, 1933. Republished July 14.

CLASS 40

Bandeaux, Hair. Elizabeth Arden, Inc. 324,099, May 14, 1935. Republished July 14.
Plastic round holders in the nature of grip combs. Ben-Hur Products, Inc. 577,460, July 14; Serial No. 625,577.

CLASS 42

Blankets. Pendleton Woolen Mills. 215,591, July 20, 1926. Republished July 14.
Blankets, Indian, wool in the piece, blankets, and shawls; etc. Pendleton Woolen Mills. 156,730, July 11, 1922. Republished July 14.
Blankets, Textile. Pendleton Woolen Mills. 212,278, Apr. 27, 1926. Republished July 14.
Blankets, Textile. Pendleton Woolen Mills. 223,756, Feb. 8, 1927. Republished July 14.
Blankets, Woolen. Pendleton Woolen Mills. 222,644, Jan. 4, 1927. Republished July 14.
Carpets and rugs. M. J. Whittall Associates, Inc. 439,242, June 8, 1948. Republished July 14.
Carpets and rugs. M. J. Whittall Associates, Inc. 439,618, July 6, 1948. Republished July 14.
Carpets and rugs. M. J. Whittall Associates, Inc. 440,247, Aug. 17, 1948. Republished July 14.
Carpets and rugs. M. J. Whittall Associates, Inc. 440,822–3, Sept. 28, 1948. Republished July 14.
Drapes, curtains, portieres, etc. Phoenix Trimming Co. 302,295, renewed Apr. 11, 1953. O. G. July 14.
Fabrics, Cylinder knitted. Barbet Mills, Inc. 577,474, July 14; Serial No. 632,974.
Fabrics, Textile. D. B. Fuller & Co., Inc. 437,704, Mar. 30, 1948. Republished July 14.
Fabrics, Textile. Albert H. Vandam Co. Inc. 432,973, Sept. 23, 1947. Republished July 14.
Fabrics, Woolen and worsted. Siegel Bros. Garment Corp. 408,638, Aug. 22, 1944. Republished July 14.
Piece goods. Capitol Piece Dye Works, Inc. 398,262, Oct. 20, 1942. Republished July 14.
Piece goods. Peck & Peck. 302,665, renewed Apr. 25, 1953. O. G. July 14.
Piece goods, Cotton. Ely & Walker Dry Goods Company. 306,700, renewed Sept. 26, 1953. O. G. July 14.
Piece goods, Woolen. Miron Mills, Inc. 577,463, July 14; Serial No. 626,102.
Pillow covers, mattress covers, and crib mattress covers. H. H. Cutler Company. 577,443, July 14; Serial No. 608,494.
Plastic film. Toscony Fabrics, Inc. 577,457–8, July 14; Serial Nos. 625,137–8.
Rugs, Woven pile, and carpets. Bigelow-Sanford Carpet Co., Inc. 577,451, July 14; Serial No. 622,001.
Wash cloths and towels, Knitted. Putnam Knitting Co. 103,207, Mar. 23, 1915. Republished July 14.

CLASS 43

Yarns. Carter & Parker Limited. 303,627, May 30, 1933. Republished July 14.

CLASS 44

Athletic supporters. Johnson & Johnson. 577,381, July 14; Serial No. 633,985, published Apr. 14, 1953.
Crutches. Hendrikson Crutch Co., Inc. 577,344, July 14; Serial No. 631,865, published Apr. 14, 1953.
First aid kits. E. D. Bullard Company. 577,167, July 14; Serial No. 567,943, published Jan. 2, 1951.
Home permanent waving kit. Frosty Creme Products, Inc. 577,163, July 14; Serial No. 562,773, published July 11, 1950.
Lancets. Dade Reagents, Inc. 577,383, July 14; Serial No. 634,000, published Apr. 14, 1953.
Massage rollers. Elizabeth Arden, Inc. 320,203, Dec. 18, 1934. Republished July 14.
Rubber gloves, primarily for surgical purposes. The Massillon Rubber Company. 577,275, July 14; Serial No. 624,553, published Apr. 14, 1953.
Sanitary napkins. Delicat, Inc. 577,263, July 14; Serial No. 623,594, published Apr. 14, 1953.

CLASS 45

Fountain syrups and concentrates. Howard D. Johnson Company. 577,174, July 14; Serial No. 589,318, published Apr. 14, 1953.
Ginger ale, a non-alcoholic, non-cereal, maltless beverage, sold as a soft drink. S. Harris and W. Americus. 303,683, renewed June 6, 1953. O. G. July 14.
Mineral water. E. N. Gackenbach. 577,405, July 14; Serial No. 635,647, published Mar. 31, 1953.
Soft drinks, Nonalcoholic maltless. Porto Rico Pale Dry Co. 577,172, July 14; Serial No. 584,594, published Apr. 21, 1953.

CLASS 46

Absorbents, alteratives, analgesics, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,120, renewed Feb. 21, 1953. G. G. July 14.
Candy. Williamson Candy Company. 577,347, July 14; Serial No. 632,280, published Apr. 21, 1953.
Candy and chewing gum. John Mackintosh & Sons Limited. 577,310, July 14; Serial No. 627,893, published Apr. 28, 1953.
Canned peas. Bozeman Canning Company, Inc. 577,358, July 14; Serial No. 632,594, published Apr. 14, 1953.
Canned peas. Bozeman Canning Company, Inc. 577,359, July 14; Serial No. 632,598, published Apr. 14, 1953.
Canned peas. Bozeman Canning Company, Inc. 577,360, July 14; Serial No. 632,600, published Apr. 14, 1953.
Canned salmon. Warren Packing Company. 91,144, re-renewed Apr. 15, 1953. O. G. July 14.
Cheese. Gennaro Auricchio, S. p. A. 577,436, July 14; Serial No. 642,406, published Apr. 21, 1953.
Cheese. John Morrell & Co. 305,187, renewed Aug. 8, 1953. O. G. July 14.
Chicken, Fresh and fresh frozen pheasant. Schaffer Stores Company, Inc. 577,460, July 14; Serial No. 629,059.
Coffee, cheese, fresh and smoked meat. Melsberger's Markets. 577,336, July 14; Serial No. 631,359, published Apr. 28, 1953.
Coffee, Green. J. Aron & Company, Inc. 304,403, renewed July 4, 1953. O. G. July 14.
Cookies, crackers, and cake. Mother's Cake & Cookie Co. 577,159, July 7; Serial No. 555,287, published June 24, 1952.
Dairy products, jams, jellies, etc. Fred Wolferman, Incorporated. 577,179, July 14; Serial No. 593,511, published Apr. 28, 1953.
Dessert mixes. Camac, Inc. 577,257, July 14; Serial No. 623,180, published Apr. 28, 1953.
Extract of beef. Oxo Limited. 577,315, July 14; Serial No. 629,251, published Apr. 28, 1953.
Feed, Animal. Kraft Foods Company. 577,321, July 14; Serial No. 629,739, published Apr. 28, 1953.
Feeds, Commercial. Soya Products, Inc. 300,898, Feb. 14, 1933. Republished July 14.
Fig bars. N. M. Wheatley. 252,933, Feb. 19, 1929. Republished July 14.
Fish, Packaged and canned prepared. Davis Bros. Fisheries Co., Inc. 577,438, July 14; Serial No. 588,160.
Flour. Pillsbury-Washburn Flour Mills Company, Ltd. 44,818, July 25, 1905. Republished July 14.
Flour, Gluten, and wheat flour. Charles Killgore Company, Inc. 577,408, July 14; Serial No. 635,969, published Apr. 21, 1953.
Flour, Wheat, and cereal breakfast foods. General Mills, Inc. 304,103, renewed June 20, 1953. O. G. July 14.
Flours, Wheat. Pillsbury Mills, Inc. 441,193, Nov. 2, 1948. Republished July 14.
Food. The Churngold Corporation. 577,241, July 14; Serial No. 620,766, published Apr. 28, 1953.
Food, Cat, and dog food. Felix Fabrieken N. V. 577,434, July 14; Serial No. 641,677, published Apr. 21, 1953.
Food, Dog. The Thorobred Company. 577,429, July 14; Serial No. 639,857, published Apr. 28, 1953.
Food supplement, Dry type of. The O. A. Cooper Company. 577,441, July 14; Serial No. 605,996.
Fowl with giblets, Quick frozen. The Seymour Packing Company. 577,377, July 14; Serial No. 633,741, published Apr. 14, 1953.
Fruit, Fresh citrus. San Fernando Heights Orange Association. 306,492, renewed Sept. 19, 1953. O. G. July 14.
Fruits and vegetables, Frozen fresh. G. C. Chapman. 577,442, July 14; Serial No. 607,930.
Fruits, Dried. Bonner Packing Co. 577,445, July 14; Serial No. 609,957.
Fruits, Frozen, frozen fruit juices, frozen vegetables, etc. Snow Crop Marketers, Inc. 577,170, July 14; Serial No. 581,209, published Apr. 1, 1952.
Grapes, Fresh. P. A. Dobson. 306,208, renewed Sept. 12, 1953. O. G. July 14.
Grapes, Fresh, fresh deciduous fruits, fresh vegetables. Lambert Marketing Co. 298,341, Oct. 25, 1932. Republished July 14.



Herring, Kippered, and kipper snacks. Strohmeyer & Arpe Company. 305,355, renewed Aug. 15, 1953. O. G. July 14.
Limes, Fresh. Robert Lauria Avocado Company. 577,201, July 14; Serial No. 612,618, published Apr. 28, 1953.
Macaroni. The Pfaffman Co. 577,246, July 14; Serial No. 622,187, published Apr. 28, 1953.
Milk, cream, butter milk, etc. Pevely Dairy Company. 303,337, renewed May 23, 1953. O. G. July 14.
Milk, Fluid, and cream and condensed milk. Western Maryland Dairy, Inc. 577,166, July 14; Serial No. 567,669, published Sept. 25, 1951.
Pickled gherkins, Sweet, mixed sweet- and sour-pickles, and sweet relish, etc. L. Rosenberg. 577,252, July 14; Serial No. 622,756, published Apr. 28, 1953.
Pickles, Dill, kosher style pickles, sliced butter pickles, etc. Bohemian Giri Foods. 577,262, July 14; Serial No. 623,589, published Apr. 28, 1953.
Prepared mix for making a batter. American Batter Corporation. 577,461, July 14; Serial No. 625,570.
Sauces. Goodall Backhouse & Co. 92,667, re-renewed July 22, 1953. O. G. July 14.
Sauces. E. Lazenby & Son, Limited. 40,986, re-renewed Aug. 25, 1953. O. G. July 14.
Seed-oils and seed products. The Procter & Gamble Co. 39,723, re-renewed Feb. 3, 1953. O. G. July 14.
Smoked butts. Merkel Inc. 302,623, renewed Apr. 25, 1953. O. G. July 14.
Syrup. Corn Products Company. 41,117, re-renewed Sept. 15, 1953. O. G. July 14.
Syrup, Cane, candied pecans, pralines, etc. L. C. Burgess. 577,453, July 14; Serial No. 622,693.
Toast, Prepared. Romanoff Caviar Company. 305,962, renewed Aug. 29, 1953. O. G. July 14.
Vegetables, Fresh. Lambert Marketing Co. 285,362, July 28, 1931. Republished July 14.
Vegetables, Fresh. Pacific Gamble Robinson Co. 577,357, July 14; Serial No. 632,573, published Apr. 21, 1953.
Vegetables, Fresh, fresh deciduous fruits. Lambert Marketing Co. 287,439, Sept. 29, 1931. Republished July 14.

CLASS 47

Sherry-wine. Alex. D. Shaw & Co. 91,908, re-renewed June 3, 1953. O. G. July 14.
Vermouth. Juillard Fancy Foods Company. 577,234, July 14; Serial No. 619,577, published Apr. 28, 1953.
Wine, Sherry. Geo. G. Sandeman Sons & Co. 305,613, renewed Aug. 22, 1953. O. G. July 14.

CLASS 48

Beer. Bavarian Brewing Company Inc. 577,205, July 14; Serial No. 613,552, published Apr. 21, 1953.
Beer. The William Gerst Brewing Co., Inc. 577,242, July 14; Serial No. 621,009, published Apr. 28, 1953.
Beer. The Hudepohl Brewing Company. 577,202–3, July 14; Serial Nos. 625,803–4, published Apr. 28, 1953.
Beer. John Labatt Limited. 577,210, July 14; Serial No. 614,949, published Apr. 7, 1953.
Malt beverages. Seneca Food Products Corporation. 304,285, renewed June 27, 1953. O. G. July 14.
Malt beverages. Seneca Food Products Corporation. 305,005, renewed July 25, 1953. O. G. July 14.

CLASS 49

Alcoholic beverages. The Calvert Distilling Co. 577,188, July 14; Serial No. 605,405, published Mar. 31, 1953.
Alcoholic beverages. The Calvert Distilling Co. 577,387, July 14; Serial No. 634,235, published Apr. 28, 1953.
Alcoholic beverages. Gallagher & Burton, Inc. 577,191, July 14; Serial No. 607,751, published Apr. 14, 1953.
Alcoholic beverage. Ladner Brothers, Incorporated 577,158, July 14; Serial No. 551,803, published Sept. 23, 1952.
Alcoholic beverages, Potable distilled. Sunset Incorporated. 577,181, July 14; Serial No. 596,815, published Apr. 28, 1953.
Alcoholic cordials. Martini & Rossi Corporation. 577,251, July 14; Serial No. 622,753, published Apr. 28, 1953.
Brandy. J. Wertheimer & Co. 577,184, July 14; Serial No. 598,286, published Apr. 28, 1953.
Brandy, Cherry. La Cigogne de Strasbourg, G. & L. Stein, Societe a Responsabilite Limited. 577,276, July 14; Serial No. 624,604, published Apr. 7, 1953.
Liquors, Distilled. Sunset Incorporated. 577,367, July 14; Serial No. 633,437, published Mar. 24, 1953.
Whiskey. Bohemian Distributing Company. 444,783, July 14; Serial No. 525,775, published Dec. 14, 1948.
Whiskey. Duggan's Limited. 310,498, Aug. 28, 1934. Republished July 14.
Whiskey. Schenley Industries, Inc. 577,171, July 14; Serial No. 582,145, published Apr. 7, 1953.
Whiskey, Scotch. MacLachlans Limited. 577,346, July 14; Serial No. 632,254, published Apr. 28, 1953.
Whisky. John Long Distilleries, Limited. 577,305, July 14; Serial No. 627,393, published Apr. 7, 1953.

CLASS 50

Kits containing instructions and a varied assortment of wood, construction brads, glue, etc. J. E. Neighbor. 577,462, July 14; Serial No. 625,861.
Ornaments for decorating packages, tables, etc. G. W. Borkland. 577,465, July 14; Serial No. 627,248.

CLASS 51

Antiseptic solution, pyorrhea preparation, and dentifrice. Forhan Company, Inc. 303,623, renewed May 30, 1953. O. G. July 14.
Bubble bath preparation. Elizabeth Arden Sales Corporation.. 436,554, Feb. 10, 1948. Republished July 14.
Capsules containing perfume, Cotton-covered. Cinco. 577,304, July 14; Serial No. 627,253, published Mar. 31, 1953.
Cologne, dusting powder, perfumed sachet, and perfume. L. G. Rothchild. 577,211, July 14; Serial No. 615,193, published Apr. 14, 1953.
Cologne, Men's, after-shave lotion, after-shave talc, etc. Stanley Home Products, Inc. 577,332, July 14; Serial No. 630,865, published Mar. 24, 1953.
Compositions for preventing and treating sunburn. Hynson, Westcott & Dunning, Incorporated. 306,581, renewed Sept. 26, 1953. O. G. July 14.
Cosmetic cream. Elizabeth Arden, Inc. 309,323, Jan. 9, 1934. Republished July 14.
Creams, salves or skin ointments. G. H. Sherman, M. D., Inc. 301,046, renewed Feb. 14, 1953. O. G. July 14.
Deodorant tablet, Oral. The Pharma-Craft Corporation. 577,195, July 14; Serial No. 610,227, published Apr. 14, 1953.
Deodorants. Elizabeth Arden, Inc. 320,225, Dec. 18, 1934. Republished July 14.
Eyelash grower. Elizabeth Arden, Inc. 355,895, Apr. 5, 1938. Republished July 14.
Face creams. Elizabeth Arden, Inc. 355,904, Apr. 5, 1938. Republished July 14.
Face powder. Elizabeth Arden, Inc. 382,029, Oct. 15, 1940. Republished July 14.
Foundation cream. De Long Laboratories, Inc. 338,323, Sept. 1, 1936. Republished July 14.
Glycerine used as an ingredient in the manufacture of cosmetics and dentifrices. Swift & Company. 577,226, July 14; Serial No. 618,376, published Mar. 24, 1953.
Hair coloring powder. Skin Tested Drug Products, Inc. 577,356, July 14; Serial No. 632,493, published Apr. 14, 1953.
Hair tonic. E. B. Cintron. 577,274, July 14; Serial No. 624,528, published Mar. 17, 1953.
Hair tonic and after shaving lotion. Sage Laboratories, Inc. 577,207, July 14; Serial No. 626,051, published Sept. 30, 1952.
Hair tonics and hair lotions, hair dressings, and skin creams. Columbus Wholesale Barber & Beauty Supply Co., Inc. 577,322, July 14; Serial No. 629,708, published Mar. 31, 1953.
Lipstick, face powder, perfume. Elizabeth Arden, Inc. 361,998, Nov. 8, 1938. Republished July 14.
Lipstick, rouge and nail polish. Elizabeth Arden, Inc. 369,736, Aug. 1, 1939. Republished July 14.
Lotion, Hair. Quality Chemists, Inc. 577,339, July 14; Serial No. 631,576, published Apr. 21, 1953.
Nail polish. Elizabeth Arden, Inc. 358,610, July 19, 1938. Republished July 14.
Nail polishes. Elizabeth Arden, Inc. 353,193, Dec. 28, 1937. Republished July 14.
Perfume, toilet water, eau de cologne. D. E. Gothé. 577,340, July 14; Serial No. 631,663, published Apr. 14, 1953.
Perfumes and personal deodorants. B. Wolnoko. 577,345, July 14; Serial No. 632,190, published Mar. 31, 1953.
Perfumes, sachet-powder, toilet-water, etc. Richard Hudnut. 91,213, re-renewed Apr. 22, 1953. O. G. July 14.
Perfumes, toilet waters, rouge, etc. Christian Dior Perfumes Corp. 577,253, July 14; Serial No. 622,771, published Apr. 21, 1953.
Powder, lipsticks, cheek rouge, etc. Elizabeth Arden, Inc. 365,009, Feb. 21, 1939. Republished July 14.
Preparation for application to the legs and arms to cover blemishes, etc. Elizabeth Arden, Inc. 311,948, Apr. 10, 1934. Republished July 14.
Preparation for straightening or waving hair. Irval Cosmetics, Inc. 577,309, July 14; Serial No. 627,748, published Mar. 31, 1953.
Preparations for the removal of superfluous hair. Bonwit Teller, Inc. 341,579, Dec. 15, 1936. Republished July 14.
Shaving cream, Brushless. Kaufmann Department Stores, Inc. 300,725, Feb. 7, 1933. Republished July 14.
Sunburn cream. Elizabeth Arden, Inc. 311,947, Apr. 10, 1934. Republished July 14.
Suntan oil, sun-proof cream, bronze liquid lotion. Elizabeth Arden, Inc. 342,994, Feb. 9, 1937. Republished July 14.
Toilet cream. Elizabeth Arden, Inc. 381,026, Sept. 10, 1940. Republished July 14.
Toilet cream or jelly. Elizabeth Arden, Inc. 371,473, Sept. 26, 1939. Republished July 14.
Toilet water and dusting powder. Charles of the Ritz, Inc. 577,277, July 14; Serial No. 624,631, published Apr. 21, 1953.

CLASS 52

Cleaner, Liquid, powdered hand soap, liquid hand soap, etc. Lien Chemical Company. 577,175, July 14; Serial No. 589,904, published Apr. 28, 1953.

Detergent, Synthetic. Virginia-Carolina Chemical Corporation. 577,227, July 14; Serial No. 618,415, published Aug. 5, 1952.

Soap. Richard Hudnut. 91,215, re-renewed Apr. 22, 1953. O. G. July 14.

Soap compound. National Milling & Chemical Company. 300,473, renewed Jan. 24, 1953. O. G. July 14.

Soap, Liquid. The Wilbur White Chemical Company, Inc. 306,611, renewed Sept. 26, 1953. O. G. July 14.

CLASS 102

Underwriting group disability insurance. Occidental Life Insurance Company of California. 577,480, July 14; Serial No. 608,467.

CLASS 105

Air transportation of passengers and freight. Compagnie Nationale Air France. 577,481, July 14; Serial No. 630,581.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 14TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Armco Steel Corporation, assignee: *See*—
Clarke, William C., Jr.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Heising, Raymond A.

Benninghoff, William L., Waite Hill Village, and A. F. Robertson, South Euclid, assignors to The Pipe Machinery Company, Cleveland, Ohio. Machine tool. Re. 23,684, July 14.

Clarke, William C., Jr., Dundalk, Md., assignor to Armco Steel Corporation. Alloy steel. Re. 23,685, July 14.

Heising, Raymond A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. Re. 23,686, July 14.

Pipe Machinery Company, The, assignee: *See*—
Benninghoff, William L., and Robertson.

Robertson, Alexander F.: *See*—
Benninghoff, William L., and Robertson.

# LIST OF PLANT PATENTEES

Tiret, Horace M., San Francisco, Calif. Fuchsia plant. 1,201, July 14.

Tiret, Horace M., San Francisco, Calif. Fuchsia plant. 1,202, July 14.

Tiret, Horace M., San Francisco, Calif. Fuchsia plant. 1,203, July 14.

Tiret, Horace M., San Francisco, Calif. Fuchsia plant. 1,204, July 14.

Valdero, James, Parlier, Calif. Peach tree. 1,205, July 14.

# LIST OF DESIGN PATENTEES

Ainsworth, George, New Hyde Park, N. Y. Fluorescent tube lighting fixture. 169,999, July 14.

Amana Refrigeration, Inc., assignee: *See*—
Budiong, Robert D.

Arena, Joseph, East Haven, Conn. Combined tooth paste dispenser and toothbrush holder. 170,000, July 14.

Barofsky, Jack, Los Angeles, Calif. Television cabinet or similar article. 170,001, July 14.

Bristol Steel & Iron Works, Inc., assignee: *See*—
Ferguson, James R.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Chapman, David, and Reineman.

Budiong, Robert D., Skokie, Ill., assignor to Amana Refrigeration, Inc., Amana, Iowa. Freezer cabinet. 170,002, July 14.

Carvel, Thomas, Chauncey, N. Y. Combined service and display counter. 170,003, July 14.

Castedello, William: *See*—
Schwartz, Morris, and Castedello.

Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Desk or the like. 170,004, July 14.

Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Combination desk-chair unit or the like. 170,005, July 14.

Chapman, David, Chicago, Ill., and R. G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Table or the like. 170,006, July 14.

Collins, Marjorie M., Ottawa, Kans. Doll. 170,007, July 14.

Cooke, Helen G., Aurora, Colo. Doll. 170,008, July 14.

Cripe, Gene H., and R. J. Petersen, assignors to Utility Appliance Corporation, Los Angeles, Calif. Combined backguard and shelf for stoves. 170,009, July 14.

Delphos Bending Company, The, assignee: *See*—
Peltier, Leslie C.

Donaldson, James E., Chicago, Ill. Baby dish. 170,010, July 14.

Dupier, Raymond R., Toledo, Ohio. Hot air furnace. 170,011, July 14.

Empire Brushes, Inc., assignee: *See*—
Gantz, Emanuel.

Feldman, Samuel, Forest Hills, N. Y., assignor to Knit Wear Patents, Inc., Atlanta, Ga. Skirt or similar article. 170,012, July 14.

Ferar, Montgomery, Detroit, Mich., assignor to Seeger Refrigerator Company, St. Paul, Minn. Emblem for household appliances or the like. 170,013, July 14.

Ferguson, James R., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Traffic signal. 170,014, July 14.

Ferragamo, Salvatore, Firenze, Italy. Shoe. 170,015, July 14.

Foss, Robert, Chicago, Ill. Cradle telephone lamp. 170,016, July 14.

Gantz, Emanuel, Harrison, assignor to Empire Brushes, Inc., Port Chester, N. Y. Broom or similar article. 170,017, July 14.

Greenlee, Charles H., New York, N. Y. Spice cabinet. 170,018, July 14.

Hainke, Paul, Mower Corporation, Inc., The, assignee: *See*—
Hainke, Paul W.

Hainke, Paul W., assignor to The Paul Hainke Mower Company, Inc., Hutchinson, Kans. Combination gear box cover and shaft support. 170,019, July 14.

Harper, Ewing, San Francisco, Calif. Ash tray. 170,020, July 14.

Herrmann, Ernest, Hillsdale, N. J., assignor to The Mengel Company, Louisville, Ky. Chest. 170,021, July 14.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

Kaiart Company Inc., The, assignee: *See*—
Schwartz, Morris, and Castedello.

Knit Wear Patents, Inc., assignee: *See*—
Feldman, Samuel.

Levine, Samuel, New York, N. Y. Sweater or the like. 170,022, July 14.

Maywald, Frederick J., Rutherford, N. J., assignor to The J. & E. Stevens Sales Company, New York, N. Y. Toy cap pistol or similar article. 170,023, July 14.

Mengel Company, The, assignee: *See*—
Herrmann, Ernest.

Morris, Nathan K., Avon, N. J. Head scarf. 170,024, July 14.

Myser, Henri J., Mount Vernon, Ill. Airplane. 170,025, July 14.

Peltier, Leslie C., Delphos, Ohio, assignor to The Delphos Bending Company. Child's riding toy or similar article. 170,026, July 14.

Perlmutter, Patricia C., assignor to Woodstock Candelier, Woodstock, N. Y. Candle. 170,027, July 14.

Petersen, Richard J.: *See*—
Cripe, Gene H., and Petersen.

Reineman, Richard G.: *See*—
Chapman, David, and Reineman.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 170,028, July 14.

Sandberg, Harry O., Boston, Mass. Pencil sharpener and the like. 170,029, July 14.

Sauer, Lloyd A., Milwaukee, Wis. Illuminable pylon. 170,030, July 14.

Schindele, Dorothy, Los Angeles, Calif. Desk. 170,031, July 14.

Schwartz, Morris, and W. Castedello, Plainville, assignors to The Kaiart Company Inc., Stamford, Conn. Photographic camera. 170,032, July 14.

Seeger Refrigerator Company, assignee: *See*—
Ferar, Montgomery.

Spencer, Julie R., Denver, Colo. Pair of spectacles. 170,033, July 14.
Stevens, J. & E., Sales Company, The, assignee: *See*—
Maywald, Frederick J.
Stone, Philip G., Newark, N. J. Spotlight or similar article. 170,034, July 14.
Troya, Henry, Los Angeles, Calif. Nail file. 170,035, July 14.
Utility Appliance Corporation, assignee: *See*—
Cripe, Gene H., and Petersen.
Weiss, Ted J., Dover, N. H. Moccasin. 170,036, July 14.
Williams, Carroll, Gladwyne, Pa. Airplane. 170,037, July 14.
Wise, Solomon, Shaker Heights, Ohio. Cabinet lock. 170,038, July 14.
Woodstock Candeller, assignee: *See*—
Perlmutter, Patricia C.
Z & W Machine Products, Inc., assignee: *See*—
Ziherl, Frank A.
Ziherl, Frank A., Euclid, assignor to Z & W Machine Products, Inc., Cleveland, Ohio. Sprayer for insecticides, deodorants, or the like. 170,039, July 14.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 14TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories, assignee: *See*—
Tabern, Donalee L.
Abeles, Paul W., London, England. Composite structural member and in the manufacture thereof. 2,645,115, July 14.
Ackland, Edward B., Cincinnati, assignor to The Dearing Tool & Manufacturing Co., Greenville, Ohio. Razor blade hand plane. 2,645,259, July 14.
Adams, Dennis A. W., Headingley, Leeds, R. R. Davies and R. H. Wilson, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of hydroxy-indaxoles. 2,645,642, July 14.
Adams, Raphael J., Olympia, Wash. Writing sign. 2,645,048, July 14.
Add-A-Handle Carton Company, assignee: *See*—
Robins, Irving.
Addressograph-Multigraph Corporation, assignee: *See*—
Brainard, George C., and Gruver.
Adelson, David E., Berkeley, and R. E. Thorpe, Castro Valley, assignors to Shell Development Company, San Francisco, Calif. Lubricating composition. 2,645,613, July 14.
Adlam, George, & Sons Limited, assignee: *See*—
Holford, Hastings J., and Challis.
Advance Transformer Co., assignee: *See*—
Dahl, Robert E.
Aetna-Standard Engineering Company, The, assignee: *See*—
Rodder, William.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Evans, Cyril D., Cowan, and Schwab.
Williamson, Robert V.
Ainsworth, Chester D., Wollaston, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Cross blast circuit breaker with arcing contacts controlling orifice of arcing chamber. 2,645,694, July 14.
Air Preheater Corporation, The, assignee: *See*—
Holm, Sven.
Air Reduction Company, Incorporated, assignee: *See*—
Garrison, Van Buskirk.
Senesky, John S.
Air-Way Electric Appliance Corporation, assignee: *See*—
Dow, Dewey M.
Ajero, Fortunato S.: *See*—
Juzwiak, Edmond A., and Ajero.
Aktiebolaget Elektrolux, assignee: *See*—
Karlstrom, Johan F. R.
Aktiebolaget Kamyr, assignee: *See*—
Richter, Johan C. F. C.
Aktiengesellschaft Fuer Technische Studien, assignee: *See*—
Brunner, Paul.
Albrecht, Alexander J.: *See*—
Dressel, Arthur, and Albrecht.
Albro, Walter, Jamestown, N. Y. Clip retaining pocket attachment. 2,644,991, July 14.
Aldridge, Clarence F., assignor to Taylor Instrument Companies, Rochester, N. Y. Box for shipping, displaying, and storing fragile articles such as thermometers or the like. 2,645,334, July 14.
Aleck, Benjamin J., Brooklyn, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Torquemeter based on warping stress measurement. 2,645,119, July 14.
Alfredsson, Karl G. E., Stockholm, and S. G. Hanell, Bromma, Sweden. Apparatus for opening cigarette packets. 2,645,007, July 14.
Allan, Frederick W., Batavia, N. Y. Power loader. 2,645,369, July 14.
Allbright-Nell Company, The, assignee: *See*—
Allbright, Norman J., Illsley, and Harrington.
Allbright, Norman J., R. W. Illsley, and B. S. Harrington, assignors to The Allbright-Nell Company, Chicago, Ill. Automatic apparatus for injecting curing liquid into hog bellies and the like. 2,645,172, July 14.
Allegheny Ludlum Steel Corporation, assignee: *See*—
Herres, Schuyler A., and Redden.
Allen, Albert S., Springfield, Mo., assignor to United States Hoffman Machinery Corporation, Syracuse, N. Y. Vaporizer unit and tray. 2,645,607, July 14.
Allen-Bradley Company, assignee: *See*—
De Smidt, Woodrow A.
De Smidt, Woodrow A., and Matthias.
Allen, R. C., Business Machines, Inc., assignee: *See*—
Kavanaugh, Floyd J.
Allied Chemical & Dye Corporation, assignee: *See*—
Sogn, Allen W.



Allis-Chalmers Manufacturing Company, assignee: *See*—
Ainsworth, Chester D.
Goodwin, Edwin C.
Taylor, Philip L.
Almquist, Mildred L.: *See*—
Govett, Thomas, and Almquist.
Altnether, William, St. Louis, Mo. Sheet metal layout instrument. 2,645,028, July 14.
American Box Board Company, assignee: *See*—
Anderson, Wilbur G., Jr.
American Enka Corporation, assignee: *See*—
De Vault, Robert V., and Echerd.
American Optical Company, assignee: *See*—
Crandon, Harry D.
American Smelting and Refining Company, assignee: *See*—
Taylor, Richard D.
Amirikian, Arsham, Chevy Chase, Md. Hollow structure. 2,645,114, July 14.
Ammco Tools, Inc., assignee: *See*—
Billeter, Henry R.
Anderson, John W., Gary, Ind., assignor to Productive Inventions, Inc. Cleaning pad for windshields. 2,644,974, July 14.
Anderson, Leslie J., Moorestown, N. J., and R. K. Duncan, Woodburn, Ind., assignors to Radio Corporation of America. Electromechanical transducer. 2,645,683, July 14.
Anderson, Marion F., Grand Island, Nebr. Carburetor adapter. 2,645,570, July 14.
Anderson, Ralph F., Rockford, Ill. Stick dispensing machine. 2,645,398, July 14.
Anderson, Wilbur G., Jr., assignor to American Box Board Company, Grand Rapids, Mich. Golf club box. 2,645,353, July 14.
Andler, Robert F., assignor to Electrol Burner Manufacturing Co., Inc., Rutherford, N. J. Control device for oil burners. 2,645,411, July 14.
Andresen, John H., Jr., Port Washington, assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y. Power-time recorder. 2,645,118, July 14.
Andrews, Percy W., New York, N. Y. Combined scissor and knife sharpener. 2,645,066, July 14.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Haresnape, John N., and Hesling.
Oldham, Wilfred J., and Wirth.
Anthony, Felix M. and H. S., Piedmont, Calif., said H. S. Anthony assignor to said F. M. Anthony. Device for crimping cable connectors. 2,645,141, July 14.
Anthony, Harry S.: *See*—
Anthony, Felix M. and H. S.
Aponovitch, John: *See*—
Clark, Francis R., and Aponovitch.
Appel, Theodore B., Jr., assignor to The C. S. Johnson Company, Champaign, Ill. Sheave assembly. 2,645,533, July 14.
Aram, Eric H. G.: *See*—
Chamberlain, William A., and Aram.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Bottle carrier. 2,645,403, July 14.
Arvin Industries, Inc., assignee: *See*—
Booth, Earl C.
Arvin, Martin J., Carterville, Ill., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Thermoelectric generator and production of same. 2,645,675, July 14.
Atlantic Refining Company, The, assignee: *See*—
Glanville, Charles R., Dunlap, and Shuler.
Audia, Benjamin, Washington, Pa. Automatic cleaner solution supply for beer distributing systems. 2,645,379, July 14.
Audio Devices, Inc., assignee: *See*—
Speed, William C., and Dwyer.
Austin Motor Company Limited, The, assignee: *See*—
Stanfield, James R., and Garrett.
Automatic Nailing Machinery Co., Inc., assignee: *See*—
Kott, Herbert.
Avco Manufacturing Corporation, assignee: *See*—
Dalglish, James J., and Holm.
Juzwiak, Edmond A., and Ajero.
Avis, Walter R., assignor to Zippo Manufacturing Company, Bradford, Pa. Flint dispenser. 2,645,335, July 14.
Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Extraction of lubricating oils with a phenol-alkanolamine solvent. 2,645,596, July 14.

Axtell, Willard G., assignor to Shwayder Bros., Inc., Denver, Colo. Method of and bath for electrolytic polishing. 2,645,611, July 14.

Ayers, Arnold L., and C. R. Scott, Bartlesville, Okla., assignors to Phillips Petroleum Company. Production of oilseed flakes. 2,645,650, July 14.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.

Bailey-Perkins, Inc., assignee: *See*—
Cumming, Alfred S.

Baker, John S., assignor to Cook Electric Company, Chicago, Ill. Differential pressure actuation device. 2,645,248, July 14.

Ball, James W., Dallas, assignor of forty-five per cent to W. R. Gunderson and ten per cent to A. P. Brolles, Dallas County, Tex. Apparatus for stripping and removing artificial casings from sausages. 2,644,979, July 14.

Barber, Nathan B., Jr.: *See*—
Drapeau, Joseph E., Jr., and Barber.

Barker, Alvin, Cincinnati, Ohio. Novelty greeting card. 2,645,481, July 14.

Barker Poultry Equipment Co., assignee: *See*—
Crane, Edward.

Barnes, James I.: *See*—
Myers, Harold C., Pukkila, and Barnes.

Barnes, Randolph C., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Safety control for engine governors. 2,645,474, July 14.

Barry, Arthur J., assignor to Dow Corning Corporation, Midland, Mich. Siloxane silica composition. 2,645,588, July 14.

Bartch, James C., Flat River, and G. W. Couch, Rivermines, Mo. Bearing and means for lubricating same. 2,645,535, July 14.

Bascom, Hugh W., Panora, Iowa. Low temperature food storage box structure with means for cooling machinery compartment. 2,645,100, July 14.

Bashford, Leslie A., and G. Doubleday, Coventry, assignors to Courtaulds Limited, London, England. Production of artificial filaments. 2,645,556, July 14.

Bassinger, Ross, Houston, Tex. Percussion drilling tool. 2,645,207, July 14.

Bate, Stanley C., Spondon, near Derby, England, assignor to Celanese Corporation of America. Purifying wood pulp. 2,645,576, July 14.

Bate, Stanley C., F. G. Peach, and W. A. Rogerson, Spondon, near Derby, England, assignors to British Celanese Limited. Purifying wood pulp. 2,645,577, July 14.

Bateman, George H., Chicago, and F. Krahulec, Skokie, assignors to A. C. Nielsen Company, Chicago, Ill. Device for recording the listening habits of wave signal receiver users. 2,645,549, July 14.

Bauger, Louis, and J. Roty, assignors to Société dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France. Gaseous fluid compressor. 2,645,410, July 14.

Baxter, Joseph, Jr., Franklin, assignor to The Black-Clawson Company, Hamilton, Ohio. Vortex separator for pulp. 2,645,347, July 14.

Baxter, Joseph M., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Automatic phonograph mechanism. 2,645,496, July 14.

Baxter, William C.: *See*—
Trimble, Edward C., and Baxter.

Baxter, William C., assignor to Trimble, Inc., Rochester, N. Y. Combination bath spray device and temperature indicator. 2,645,116, July 14.

Beacom, Edward A., V. N. Sackiyn, and A. Talamanco, Brooklyn, N. Y. Reel arm adapter. 2,645,430, July 14.

Beatty, John W., Lansdowne, Pa., assignor to General Electric Company. Electric circuit breaker. 2,645,697, July 14.

Beauloye, Alfred F.: *See*—
Beauloye, Max, H. Beauloye, Jr., and A. F. Beauloye.

Beauloye, Henry, Jr.: *See*—
Beauloye, Max, H. Beauloye, Jr., and A. F. Beauloye.

Beauloye, Max, H. Beauloye, Jr., and A. F. Beauloye, San Diego, Calif. Portable boring mill. 2,645,139, July 14.

Becker, Howard L., Rexford, N. Y., assignor to General Electric Company. Pressurized bearing. 2,645,534, July 14.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Closure member for tube ends. 2,644,978, July 14.

Beck-Meyer, Christian, Burbank, Calif. Machine for designing intersections. 2,645,040, July 14.

Becton Dickinson and Company, assignee: *See*—
Lawshe, Errol R., and Smoot.
Toy, Warren R.

Bedson, Noel P., Southport, England, assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Universal joint. 2,645,105, July 14.

Beebe, Ward L., St. Paul, Minn. Hypodermic syringe. 2,645,224, July 14.

Bein, Harold R., Sr., Westfield, Mass. Hair curler. 2,645,233, July 14.

Belham, Michael: *See*—
Kerridge, Frank E., Belham, and Pearce.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Green, Estill I.
Morin, Francis J.
Willard, Gerald W.

Bendix, Gordon H., Park Ridge, and C. R. Breden, La Grange, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Leak detector for cans and the like. 2,645,117, July 14.

Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Fitch, Ellery R., and Turek.
Stegman, Norman A.

Benedict, Walter L., Stoneham, H. D. Goodnow, Wellesley, and F. Pulsifer, Hamilton, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping the heel ends of shoes. 2,644,968, July 14.

Bergstein, Robert M., Wyoming, Ohio. Box with carrying handle. 2,645,407, July 14.

Bergstrom, Carl P., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam. 2,645,433, July 14.

Beri, John E., assignee: *See*—
Hitchens, Harry E.

Bertell, Paul, Kenmore, and G. A. Weingartner, Grand Island, assignors to Standard Mirror Company, Buffalo, N. Y. Adjustable antiglare rearvision mirror. 2,645,158, July 14.

Ibertholin, Paul, New York, N. Y. Vibrating machine for treating humans. 2,645,219, July 14.

Bessière, Pierre E., Paris, assignor to Society Electro-Mecanique de l'Aveyron, Rodez (Aveyron), France. Cooling system for electric brakes. 2,645,730, July 14.

Biddison, Douglass, assignee: *See*—
Williams, David C.

Bigué, Emile B.: *See*—
Wood, Vollmer V., and Bigué.

Billeter, Henry R., Highland Park, assignor to Amsco Tools, Inc., North Chicago, Ill. Apparatus for grinding the worn ends of valve tappets and the like. 2,645,068, July 14.

Billings, Frank, Montezuma, Ind. Wall form. 2,644,997, July 14.

Birnstiel, Eduard, Winterthur-Toss, Switzerland. Two-cycle rear piston compression engine. 2,645,214, July 14.

Bixby, William H., assignor to D. R. Middleton and S. M. Hanley, doing business as Power Equipment Company, Detroit, Mich. Abnormal voltage indicating device. 2,645,765, July 14.

Black-Clawson Company, The, assignee: *See*—
Baxter, Joseph, Jr.
Stiege, Stephen A., and Gibson.

Black, George W., Houston, Tex. Hand truck. 2,645,370, July 14.

Blair, Robert C., East Leake, near Loughborough, assignor to The British Plaster Board Limited, Wallasey, England. Mechanism for handling boards. 2,645,329, July 14.

Blakeley, Francis M., Clayton, N. Mex. Universal joint bearing cup holder. 2,645,258, July 14.

Blamey, Aimon C.: *See*—
Brownlie, John, Gerstenzang, and Blamey.

Blanchard, Evelyn L.: *See*—
Kempf, Clayton A., and Blanchard.

Blanke, Nathan E., and H. J. Sands, assignors to The Harvard Manufacturing Company, Cleveland, Ohio. Center support unit for bedframes. 2,644,959, July 14.

Blanke, Nathan E., and H. J. Sands, assignors to The Harvard Manufacturing Company, Cleveland, Ohio. Center support unit for bedframes. 2,644,960, July 14.

Blaw-Knox Company, assignee: *See*—
Bedson, Noel P.

Blessing, Albert, G. Staudenmeier, H. Tilch, and F. Kaiser, assignors to Keller and Knappich G. m. b. H. Maschinenfabrik, Augsburg, Germany. Charging and discharging device for refuse trucks. 2,645,371, July 14.

Blicke, Frederick F., Washtenaw County, assignor to Regents of the University of Michigan, Ann Arbor, Mich. 3-thianaphthenyloxyacetic acid, its salts and esters, and herbicidal composition thereof. 2,645,572, July 14.

Bliss, Harvey N., Windsor, assignor to Veeder-Root Incorporated, Hartford, Conn. Counter mechanism. 2,645,425, July 14.

Blizard, Walter S., assignor to Wolf Brothers, Inc., Philadelphia, Pa. Producing paper bags. 2,645,166, July 14.

Blumensaadt, Svend G., Beachwood Village, assignor to The Universal Wire Spring Company, Cleveland, Ohio. Wire bending fixture. 2,645,268, July 14.

Bobrick, Arthur L., Pasadena, assignor to Bobrick Manufacturing Corporation, Los Angeles, Calif. Dispenser for thick and viscous liquids. 2,645,388, July 14.

Bobrick Manufacturing Corporation, assignee: *See*—
Bobrick, Artbur L.

Boehm, Robert M.: *See*—
Richmond, James H., Boehm, and Hunt.

Boeing Airplane Company, assignee: *See*—
Lawler, John A.

Bogaards, Jacob N., The Hague, assignor of one-half to H. J. Hoving, Groningen, Netherlands. Temperature control for internal-combustion engines. 2,645,212, July 14.

Bogatenkoff, Boris: *See*—
Voliff, Charles, and Bogatenkoff.

Bohman, Axel J., deceased, North Hollywood, Calif.; The Farmers and Merchants National Bank of Los Angeles, executor. Endless conveyor for poultry feeding apparatus. 2,645,331, July 14.





Bolesky, John D., Mansfield, assignor to A. Medert, Cleveland, and R. W. Bolesky, Mansfield, Ohio, trustees. Thermostatic control. 2,645,692, July 14.

Bolesky, Russell W., trustee, assignee: *See*—
Bolesky, John D.

Bone, Herbert L., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Circuit controller contact assembly. 2,645,686, July 14.

Bonmartini, Giovanni, Rome, Italy, assignor to "EST"-Etablissement Sciences Techniques, Vaduz, Liechtenstein. Aircraft multiwheel continuous tread landing gear. 2,645,437, July 14.

Bono, Laurence, assignee: *See*—
Haase, Kurt O.

Bonzagni, Francis A., Winthrop, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Concentrating solutions. 2,645,625, July 14.

Booth, Earl C., Columbus, Ind., assignor to Arvin Industries, Inc. Joint structure for metal tubing. 2,645,276, July 14.

Booth, James H., Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Joint assembly. 2,645,510, July 14.

Booton, Roy, Dunbar, and G. C. Bower, Sissonville, W. Va., assignors to Godfrey L. Cabot, Inc., Boston, Mass. Ditch digging attachment for vehicles. 2,645,043, July 14.

Borg, George W., Corporation, The, assignee: *See*—
Olson, Peter.

Bosley, Frank J., Detroit, Mich. Brush wiper. 2,645,377, July 14.

Bousson, Robert: *See*—
Doussain, Robert, Bousson, and Perrier.

Bower, Gilbert C.: *See*—
Booton, Roy, and Bower.

Bowland, Charles R., Spring Valley, Ill. Combined mirror and flashlight. 2,645,706, July 14.

Boyd, Albert B., Drexel Hill, Pa. Flush valve. 2,644,952, July 14.

Boyd, George H., Royal Oak, Mich. Tape dispensing device. 2,645,286, July 14.

Bozek, John S., Franklin Park, and H. E. Weldanz, assignors to Standard Packaging Corporation, Chicago, Ill. Machine for applying and sealing closures to bottles. 2,645,399, July 14.

Bradley, Clifton R., Bedford, Ohio. Holder. 2,645,354, July 14.

Brainard, George C., Cleveland, and J. H. Gruver, Cleveland Heights, assignors to Addressograph-Multigraph Corporation, Cleveland, Ohio. Plastic printing plate and the embossing thereof. 2,645,178, July 14.

Brainard, George C., Cleveland, and J. H. Gruver, Cleveland Heights, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del. Embossing machine. 2,645,322, July 14.

Brandt Automatic Cashier Company, assignee: *See*—
Buchholz, Arnold R.

Branstrator, Clem G. and W. R., Fort Wayne, Ind. Foldable step assembly for house trailers. 2,645,504, July 14.

Branstrator, Wayne R.: *See*—
Branstrator, Clem G. and W. R.

Brath, William J., and L. J. Mayer, Portland, Oreg. Detachable service tray for automobile doors. 2,645,537, July 14.

Braun, Ottwin L., Pittsburgh, assignor to Reliance Steel Products Company, McKeesport, Pa. Furnace door. 2,645,211, July 14.

Braunstein, Raymond, Jr.: *See*—
Waber, Donald, and Braunstein.

Braybrook, Ronald F.: *See*—
Newman, Edward A., Davies, and Braybrook.

Breden, Calvin R.: *See*—
Bendix, Gordon H., and Breden.

Brewer, Aubrey K.: *See*—
Madorsky, Samuel L., and Brewer.

Brewer, Clarence W., Decatur, Ill. Combination bottle opener and can opener. 2,645,008, July 14.

British Celanese Limited, assignee: *See*—
Bate, Stanley C., Peach, and Rogerson.

British Plaster Board Limited, The, assignee: *See*—
Blair, Robert C.

Brock & Rankin, assignee: *See*—
Hildmann, William B.

Brodine, Norman K., Rochester, N. Y. Infant's bathing device. 2,645,442, July 14.

Broersma, J. Charles, Kalamazoo, assignor to Clark Equipment Company, Buchanan, Mich. Material handling apparatus. 2,645,372, July 14.

Brolles, A. P., assignee: *See*—
Ball, James W.

Bross, Helmut, Braunschweig, Germany. Writing implement. 2,645,204, July 14.

Broussard, Gordon R.: *See*—
Broussard, Slavin P. and G. R.

Broussard, Slavin P. and G. R., New Iberia, La. Street gutter drainage grille. 2,645,302, July 14.

Brown, Bertram M., Pawtucket, R. I., assignor to Roshro Plastics Corporation. Ornamenting articles. 2,645,049, July 14.

Brown, Clayton W., Woodbury, N. J., and P. V. Keyser, Jr., Douglaston, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Thermoregulator. 2,645,461, July 14.

Brown, George H., and W. C. Morrison, Princeton, N. J., and E. W. Flosdorf, Forest Grove, Pa.; said Brown and said Morrison assignors to Radio Corporation of America. Production of crystalline penicillin salts. 2,645,639, July 14.

Brown, Harry L., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gyroscope caging mechanism. 2,645,129, July 14.

Brown, Owen, Los Angeles, Calif. Hydroaerial landing and launching means, including modus operandi. 2,645,436, July 14.

Brownlie, John, Freeport, R. Gerstenzang, Brooklyn, N. Y., and A. C. Blamey, Rutherford, N. J.; said Blamey assignor to said Brownlie and said Gerstenzang. Window casement construction. 2,645,316, July 14.

Bruijning, Hugo G., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. High-frequency transformer for the transmission of electric impulses. 2,645,746, July 14.

Brunner, Paul, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Heat supply regulation of thermal power plants. 2,645,083, July 14.

Brush Development Company, The, assignee: *See*—
Lynch, Thomas E.

Buchholz, Arnold R., assignor to Brandt Automatic Cashier Company, Watertown, Wis. Control mechanism for coin counting machines. 2,645,234, July 14.

Buckeye Cotton Oil Company, The, assignee: *See*—
Pazandak, Louis A.

Buckeye Steel Castings Company, The, assignee: *See*—
Wolfe, Harry H.

Buckbaum, Arnold M., assignor to Collins Radio Company, Cedar Rapids, Iowa. Automatic tuning circuit. 2,645,719, July 14.

Bugg, Kenly C., assignor to Materials Blasting Company, Inc., Fort Wayne, Ind. Blasting shell and firing mechanism therefor. 2,645,181, July 14.

Bugg, Kenly C., assignor to Kendick Manufacturig Company, Inc., Fort Wayne, Ind. Balanced valve. 2,645,448, July 14.

Builders Ornamental Iron Company, assignee: *See*—
Elam, Jess L.

Bulova, Ardé, New York, N. Y. Jewel bearing and making same. 2,645,078, July 14.

Burchartz, Josef, Detmold, Germany. Lining for centrifugal iron casting molds. 2,645,558, July 14.

Burgess, Thomas, New Bedford, Mass. Baseball game. 2,645,489, July 14.

Burgoyne, Edward E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Condensation of alcohols in the presence of calcium hydroxide. 2,645,667, July 14.

Burgoyne, Edward E., Bartlesville, Okla., and F. E. Condon, Borger, Tex., assignors to Phillips Petroleum Company. Condensation of alcohols in the presence of calcium oxide. 2,645,668, July 14.

Burnett, Robert E.: *See*—
Nordland, Birger W., and Burnett.

Burst, Francis J.: *See*—
Hillenbrand, William A., and Burst.

Butler, William W.: *See*—
Deters, Bruce A., and Butler.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Collapsible cellular carton. 2,645,402, July 14.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Collapsible covered container. 2,645,404, July 14.

Buttner, Artur, assignor to Schnellpressenfabrik A.-G. Heidelberg, Heidelberg, Germany. One revolution high-speed cylinder printing press. 2,645,175, July 14.

Byerlay, Henry L., Highland Park, assignor to Hastings Manufacturing Company, Hastings, Mich. Visual analyzing device for the ignition systems of internal-combustion engines. 2,645,751, July 14.

Byrne, A. E., assignee: *See*—
Moser, Robert C.

Cabot, Godfrey L., Inc., assignee: *See*—
Booton, Roy, and Bower.

Caldwell, Walter A.: *See*—
Taylor, Ambrose G., and Caldwell.

Call, Lucille W.: *See*—
Call, Wayne W. and L. W.

Call, Wayne W. and L. W., Afton, Wyo. Baby jumper. 2,645,271, July 14.

Calvert, James: *See*—
Haythornthwaite, James J., and Calvert.

Campbell, Lawrence F., Silver Spring, Md. Closed cycle engine. 2,645,216, July 14.

Campbell, Ralph W., Deaver, Wyo. Water bag carrier for motor vehicles. 2,645,393, July 14.

Campbell, Ramsey G., Richmond, Calif., assignor to Stauffer Chemical Company. Peat control chemicals. 2,645,592, July 14.

Canada Dry Ginger Ale, Incorporated, assignee: *See*—
Donnelly, John H.

Capossela, John C., North Tarrytown, N. Y. Ankle and foot support. 2,645,222, July 14.

Carameill, Carl F., assignor to P. G. Carameill, Los Angeles, Calif. Sliding counter seat. 2,645,272, July 14.

Caramelli, Peter G., assignee : *See*—
Caramelli, Carl F.

Carter, George H., Port Washington, N. Y. Reversible hydraulic pump and turbine transmission. 2,645,086, July 14.

Carter, Seymour W. : *See*—
Hastings, Carlton H., and Carter.

Carter, William E., Anderson, Ind. Surgical truss. 2,645,221, July 14.

Casselia Farbwerke Mainkur Aktiengesellschaft, assignee : *See*—
Schwamberger, Emil.
Zerweck, Werner, and Schubert.

Cassidy, Robert J., Mansfield, Ohio., assignor to General Motors Corporation, Detroit, Mich. Dual limit control circuit. 2,645,744, July 14.

Caterpillar Tractor Co., assignee : *See*—
Barnes, Randolph C.

Celanese Corporation of America, assignee : *See*—
Bate, Stanley C.

Challis, Alexander J. : *See*—
Holford, Hastings J., and Challis.

Chamberlain, William A., Whatstandwell, near Matlock, and E. H. G. Aram, Nuthall, England. Torque converter. 2,645,130, July 14.

Chaminade, Robert, Plessis-Robinson, assignor to Commissariat à l'Energie Atomique, Paris, France. Ionizing radiation movable detecting device. 2,645,722, July 14.

Channer, Earle A., Jr., Larchmont, N. Y. Cabinet desk and support therefor. 2,645,547, July 14.

Chapman, Raymond J., Wawaka, assignor of one-sixth to R. J. Jorg, one-sixth to G. C. Jorg, and one-sixth to R. J. Jorg, Jr., Ligonier, Ind. Flushing device. 2,644,950, July 14.

Charpentier, Paul, Choisy-le-Roi, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Phenthiazine derivatives. 2,645,640, July 14.

Chase-Shawmut Company, The, assignee : *See*—
Edsall, William S., and Hitchcock.

Chase, Theron P., Huntington Woods, Mich. Hydraulic brake adjuster. 2,645,312, July 14.

Cheesman, Samuel C., assignor to C. B. Hunt & Son, Inc., Salem, Ohio. Fluid valve means. 2,645,450, July 14.

Chicago Rawhide Manufacturing Company, assignee : *See*—
Isenbarger, Robert O.

Chinnici, Michael, Brooklyn, assignor to Peerless Sewing Machine Corporation, New York, N. Y. Sewing machine. 2,645,193, July 14.

Christensen, John W., Forest Hills, assignor to Columbia Broadcasting System, Inc., New York, N. Y. Color television. 2,645,678, July 14.

Christensen, Paul M. : *See*—
Cole, Thomas M., and Christensen.

Chrysler Corporation, assignee : *See*—
Dickson, John B.
Sarto, Jorma O.

Cities Service Oil Company, assignee : *See*—
Walker, John C., and Heston.

Clark, Alfred, Bartlesville, Okla., assignor to Phillips Petroleum Company. Tandem-bed hydroforming process. 2,645,604, July 14.

Clark, Claude L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Steel for high-temperature use. 2,645,574, July 14.

Clark Equipment Company, assignee : *See*—
Broersma, J. Charles.
Hawkins, Frederick E., Lapsley, and Turner.
Turner, George L.
Turner, George L., and Lapsley.
Williams, Alfred O.

Clark, Francis R., Orange, and J. Aponovitch, East North Bergen, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Volumetric filling machine with weight control. 2,645,447, July 14.

Clark, James T., assignee : *See*—
Schwenzfeier, Otto.

Coe, Clarence S. : *See*—
Doumani, Thomas F., and Coe.

Coeterier, Frederik, Eindhoven, Netherlands, assignor to Hardford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement comprising a reflex discharge tube. 2,645,738, July 14.

Cohen, Hymen K., Baltimore, Md. Razor handle. 2,645,009, July 14.

Cole, Thomas M., New York, N. Y., and P. M. Christensen, West Orange, assignors to Federal Electric Products Company, Newark, N. J. Molded casing for electrical apparatus. 2,645,693, July 14.

Colgate-Palmolive-Peet Company, assignee : *See*—
Clark, Francis R., and Aponovitch.

Collins, Charles and D. J., Port Credit, Ontario, Canada. Perambulator. 2,645,502, July 14.

Collins, Dorothy J. : *See*—
Collins, Charles and D. J.

Collins Radio Company, assignee : *See*—
Bucksbaum, Arnold M.
May, Richard W., and Pyle.

Colman, Edith H., Bethel, Conn. Clothes rack for vehicles. 2,645,390, July 14.

Columbia Broadcasting System, Inc., assignee : *See*—
Christensen, John W.

Combined Locks Paper Co., assignee : *See*—
Muggleton, Gerald D.

Combustion Engineering, Inc., assignee : *See*—
Henkel, Erich, and Nehrbas.

Commercial Solvents Corporation, assignee : *See*—
Young, Vernon V.

Commissariat à l'Energie Atomique, assignee : *See*—
Chaminade, Robert.

Condon, Francis E. : *See*—
Burgoyne, Edward E., and Condon.

Connors, John, Hamden, assignor to The Geist Manufacturing Company, New Haven, Conn. Attachable feeding foot for sewing machine attachments. 2,645,191, July 14.

Consolidated Engineering Corporation, assignee : *See*—
Goodwin, Paul S.

Continental Can Company, Inc., assignee : *See*—
Bendix, Gordon H., and Breden.

Cook Electric Company, assignee : *See*—
Baker, John S.

Cook, Harvey A., University Heights, Ohio. Occupant compartment superimposed on vehicle body. 2,645,518, July 14.

Cotton, Ernest W. : *See*—
Crouch, Willie W., and Cotton.

Couch, George W. : *See*—
Bartch, James C., and Couch.

Courtaulds Limited, assignee : *See*—
Bashford, Leslie A., and Doubleday.
Wharton, John, and Hall.

Cowan, John C. : *See*—
Evans, Cyril D., Cowan, and Schwab.

Cozzo, Giuseppe, Yonkers, assignor to Hydropress, Incorporated, New York, N. Y. Expansible mandrel. 2,645,431, July 14.

Crandon, Harry D., Woodstock, Conn., assignor to American Optical Company, Southbridge, Mass. Contact lens and method and apparatus for making same. 2,644,985, July 14.

Crane, Edward, assignor to Barker Poultry Equipment Co., Ottumwa, Iowa. Poultry shackle. 2,644,981, July 14.

Crane Packing Company, assignee : *See*—
Payne, Frank E.

Cranmer, John M., East Providence, R. I., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gasoline treating. 2,645,603, July 14.

Crompton & Knowles Loom Works, assignee : *See*—
Bergstrom, Carl P.

Crooker, David E., Ontonagon, Mich., assignor of one-half to L. L. Felker, Marshfield, Wis. Apparatus for manufacturing tire treads. 2,644,984, July 14.

Cross, James M. : *See*—
Mayhew, Raymond L., and Cross.

Crouch, Willie W., and E. W. Cotton, deceased (by R. K. Harris, administrator), Bartlesville, Okla., assignors to Phillips Petroleum Company. Emulsion copolymerization of sulfur dioxide and unsaturated organic compounds. 2,645,631, July 14.

Crouse-Hinds Company, assignee : *See*—
Parish, Willard E.

Crowley-Republic Steel Corporation, assignee : *See*—
Walters, Clarence C.

Culbertson, Arley B., Galena, Kans., and C. L. Culbertson, Lamar, Mo. Convertible furniture. 2,645,273, July 14.

Culbertson, Cecil L. : *See*—
Culbertson, Arley B. and C. L.

Cummerow, Robert L. : *See*—
Westervelt, Robert A., and Cummerow.

Cumming, Alfred [illegible], assignor to Bailey-Perkins, Inc., Detroit, Mich. Capillary tube assembly for refrigerators. 2,645,0[illegible], July 14.

Curley, Robert [illegible], Biddeford, and E. R. Richardson, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Trash ejector. 2,644,987, July 14.

Curtiss Candy Company, The, assignee : *See*—
Spohr, Carl W.

Curtiss, Nathaniel H., Clifton, N. J., assignor to United States Rubber Company, New York, N. Y. Tube extrusion. 2,644,983, July 14.

Dahl, Robert E., Hinsdale, assignor of one-half to Advance Transformer Co., Chicago, Ill. Inert gas-shielded arc welding apparatus. 2,645,703, July 14.

Dailey, Catherine B., Bremerton, and H. Harrison, Gorst, Wash. File holder. 2,645,002, July 14.

D'Alello, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Sulfonated aromatic hydrocarbon-aliphatic polyene hydrocarbon ion-exchange resins. 2,645,621, July 14.

Dalglish, James J., St. Paul, and R. L. Holm, Minneapolis, Minn., assignors to Avco Manufacturing Corporation, Cincinnati, Ohio. Mower mounting. 2,645,073, July 14.

Darroch, Ronald N., Detroit, Mich. Rear viewing system for vehicles. 2,645,159, July 14.

David, Vernon J., Durham, Kans. Chain link. 2,645,133, July 14.

Davies, Donald W. : *See*—
Newman, Edward A., Davies, and Braybrook.

Davies, Robert R. : *See*—
Adams, Dennis A. W., Davies, and Wilson.





Davies, Walter R., Shakopee, assignor to Minneapolis-Moline Company, Hopkins, Minn. Corn husker having rolls of alternate metal and rubber sections. 2,645,228, July 14.

Davis, Elbert, North Hollywood, and O. C. Stahl, assignors, by mesne assignments, to said O. C. Stahl, Los Angeles, Calif. Plastic resin tubing and making the same. 2,645,249, July 14.

Davis, John V., assignor to The Udylite Corporation, Detroit, Mich. Loading and unloading apparatus. 2,645,186, July 14.

Davis, Warren G., Madisonville, Ky. Electric cradle. 2,644,938, July 14.

Daxelhofer, Jean P., Zurich, Switzerland. Apparatus for congelation of ground. 2,645,093, July 14.

Dayton, Carl S., Bridgeport, Conn., assignor to General Electric Company. Drive mechanism for clothes washing machines and the like. 2,645,110, July 14.

Dearborn Motors Corporation, assignee : *See*—
Wechsler, Herman.

Dearing Tool & Manufacturing Co., The, assignee : *See*—
Ackland, Edward B.

De Bord, Harry, Winterset, Iowa. Spare tire holder. 2,645,394, July 14.

Decker, Moses O., Cleveland, Ohio. Fountain comb. 2,645,231, July 14.

Dedo, Homer H., Merced, Calif. Finger jointing press unit. 2,645,257, July 14.

De Laval Separator Company, The, assignee : *See*—
Strezynski, George J.

De Smidt, Woodrow A., Whitefish Bay, assignor to Allen-Bradley Company, Milwaukee, Wis. Electrical switch mounting enclosure. 2,645,743, July 14.

De Smidt, Woodrow A., Whitefish Bay, and L. H. Matthias, Fox Point, assignors to Allen-Bradley Company, Milwaukee, Wis. Circuit breaking operating lever. 2,645,088, July 14.

Deters, Bruce A., Glendale, Calif., and W. W. Rutler, Sidney, Nebr., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Back circulator device. 2,645,288, July 14.

Detroit Edison Company, The, assignee : *See*—
Matthews, George A.

De Vault, Robert V., and R. J. Echerd, Jr., Asheville, assignors to American Enka Corporation, Enka, N. C. Apparatus for preparing freshly spun cakes of rayon for aftertreatments. 2,645,434, July 14.

De Vault, Robert V., and R. J. Echerd, Jr., Asheville, assignors to American Enka Corporation, Enka, N. C. Inserting a cloth insert into a rayon cake before fluid treatment. 2,645,554, July 14.

De Vries, Machiel, Amsterdam, Netherlands. Sound filter for microphones and telephones. 2,645,301, July 14.

Diamond, Milton J., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Amplifying and triggering means for magnetic hardness testers. 2,645,341, July 14.

Dickson, John B., assignor to Chrysler Corporation, Highland Park, Mich. Electric light bulb unit. 2,645,736, July 14.

Dierkes, Mary T., Long Beach, Calif. Proportioning divider. 2,645,021, July 14.

Digby, Thomas J., New York, N. Y. Ammonia containing water heating unit. 2,645,209, July 14.

Di Giorgio, Philip A., Schenectady, N. Y., now by change of name Philip D. George, assignor to General Electric Company. Thienyl halosilanes. 2,645,644, July 14.

Dills, Raymond L., Erie, Pa., assignor to General Electric Company. Oil flow-control for dry sump pumps. 2,645,102, July 14.

Distillers Company Limited, The, assignee : *See*—
Hadley, David J., and Heap.

Ditto, Incorporated, assignee : *See*—
Levin, Carl A.

Dodds, Robert B., Woodbridge, assignor to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn. Grain aspirating machine. 2,645,345, July 14.

Donnelly, John H., assignor to Canada Dry Ginger Ale, Incorporated, New York, N. Y. Faucet for measuring, mixing, and dispensing beverages. 2,645,380, July 14.

Doonan, John J., assignor of one-half to S. S. Doonan, Brooklyn, Iowa. Mowing machine divider plate with divider rod attached thereto. 2,645,076, July 14.

Doonan, Sylvanus S, assignee : *See*—
Doonan, John J.

Dorfman, Irving, New York, N. Y., assignor to Federal Carton Corporation, North Bergen, N. J. Collapsible and reusable carton. 2,645,405, July 14.

Dorner, John A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method of and apparatus for assembling flexible tubing upon mandrels. 2,645,004, July 14.

Doubleday, George : *See*—
Bashford, Leslie A., and Doubleday.

Doumani, Thomas F., Los Angeles, and C. S. Coe, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Operating jet propulsion motors. 2,645,079, July 14.

Doussain, Robert, Vitry-sur-Seine, R. Housson, Lyon, and L. Verrier, Seto, assignors to Office National d'Etudes et de Recherches Aeronautiques, Paris, France. Self-adjusting propeller blade. 2,645,295, July 14.

Douthett, Elwood M., Darby, Pa. Variable pitch propeller. 2,645,294, July 14.

Dow Corning Corporation, assignee : *See*—
Barry, Arthur J.
Hunter, Melvin J.
Hyde, James F.
Speier, John L., Jr.

Dow, Dewey M., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Supporting device involving an elastic member. 2,645,340, July 14.

Doyen, Richard G. : *See*—
Weller, Edward F., Jr., and Doyen.

Drake, John A., Los Angeles, assignor to Marquardt Aircraft Company, Van Nuys, Calif. Pressure control device. 2,645,240, July 14.

Drapeau, Joseph E., Jr., Calumet City, and N. B. Barber, Jr., Chicago, Ill., said Drapeau, Jr., assignor to The Glidden Company, Cleveland, Ohio. Producing brass powder. 2,645,573, July 14.

Dressel, Arthur, Great Neck, N. Y., and A. J. Albrecht, West New York, N. J., assignors to R. Hoe & Co., Inc., New York, N. Y. Stereotype plate clamp. 2,645,177, July 14.

Drout, William M., Jr., Clark Township, Union County, and W. G. Emerson, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company. Excess acid process for the manufacture of esters. 2,645,660, July 14.

Dukes, Charles F., Hoboken, and L. Godwin, Nahunta, Ga. Debarker and sprayer. 2,645,058, July 14.

Duncan, Robert K. : *See*—
Anderson, Leslie J., and Duncan.

Dunlap, Henry F. : *See*—
Glanville, Charles R., Dunlap, and Shuler.

Du Pont, E. I., de Nemours and Company, assignee : *See*—
Gottlieb, Hans B.

Durand, Donat J., Bluefield, W. Va. Combination mother's pull and brake arrangement for tricycles. 2,645,505, July 14.

Durant, Lyndon A., assignor to Royal Patent Corporation, Chicago, Ill. Shuffleboard type game apparatus. 2,645,492, July 14.

Dutschke, Kurt, Zirndorf, near Nurnberg, Germany. Test device. 2,645,753, July 14.

Dwyer, James J. : *See*—
Speed, William C., and Dwyer.

"EST"-Etablissement Sciences Techniques, assignee : *See*—
Bonmartini, Giovanni.

Eastman, Harlan J., and J. G. Jackson, assignors to Eastman Oil Well Survey Company, Denver, Colo. Well caliper. 2,645,027, July 14.

Eastman Kodak Company, assignee : *See*—
Husche, Rudolph L.

Eastman Oil Well Survey Company, assignee : *See*—
Eastman, Harlan J., and Jackson.

Echerd, Ray J., Jr. : *See*—
De Vault, Robert B. and Echerd.

Eckles, Harry L., New Orleans, La. Attachable and detachable handle closure combination. 2,645,408, July 14.

Edsall, William S., Boston, and P. C. Hitchcock, Lawrence, assignors to The Chase-Shawmut Company, Newburyport, Mass. Thermal protector for conductor insulation. 2,645,690, July 14.

Edwards, Charles N., Washington, D. C., assignor to Hispeed Equipment, Inc., New York, N. Y. Apparatus for drying flimlike materials. 2,645,031, July 14.

Edwards, Martin A. : *See*—
Ogle, Hugh M., Garr, and Edwards.

Elam, Jess L., assignor to Builders Ornamental Iron Company, Chicago, Ill. Collision unit. 2,645,267, July 14.

Electric & Musical Industries Limited, assignee : *See*—
Lubszynski, Hans G.

Electrol Burner Manufacturing Co., Inc., assignee : *See*—
Andler, Robert F.

Eljer Co., assignee : *See*—
Gulick, David E.

Emériat, Raymond, Paris, assignor to Societe de la Pile Leclanche, Chasseneuil-du Poitou, France. Assembling and insulating flat dry cells. 2,645,676, July 14.

Emerson, William G., Jr. : *See*—
Drout, William M., Jr., and Emerson.

Emhart Manufacturing Company, assignee : *See*—
Rowe, George E.

Erlez Manufacturing Company, assignee : *See*—
Hoff, Ronald C.

Ernst, Henry, Jr. : *See*—
Linn, Norman F., Ernst, and Scott.

Erskine, Archibald M., Berkeley, Calif. Quaternary ammonium naphthenate and making the same. 2,645,593, July 14.

Eserkaln, Theodore F., Wauwatosa, assignor to George Gorton Machine Co., Racine, Wis. Milling and the like machine tool. 2,645,163, July 14.

Etablissements, Neyrpic, assignee : *See*—
Ponsar, Yves.

Eternit A.-G., assignee : *See*—
Herzog, Carl.

Eureka Williams Corporation, assignee : *See*—
Osborn, Ralph C.

Evans, Cyril D., J. C. Cowan and A. W. Schwab, Peoria, Ill.; assignors to the United States of America as represented by the Secretary of Agriculture. Stabilization of glyceride oils with oxydialkanoic acids. 2,645,648, July 14.

Evans, Harold D., assignor of one-half to H. L. Evans, Kansas City, Mo., and one-half to said H. D. Evans, as joint tenants. Garment support. 2,645,353, July 14.
Evans, Harry D.: *See*—
Thomas, Samuel B., and Evans.
Evans, Helen L., assignee: *See*—
Evans, Harold D.
Fairbanks, Morse & Co., assignee: *See*—
Thorsen, Thorvald L.
Farkas, Pierre, Paris, France. Brake for vehicles and other uses. 2,645,311, July 14.
Farmers and Merchants National Bank of Los Angeles, The, executor: *See*—
Bohman, Axel J.
Farnsworth Research Corporation, assignee: *See*—
Baxter, Joseph M.
Myers, William H.
Fausek, Arthur J., and I. F. Fausek, Clayton, Mo. Apparatus for separating the constituents of gaseous mixtures. 2,645,103, July 14.
Fausek, Irving F.: *See*—
Fausek, Arthur J. and I. F.
Fawick Flexi-Grip Company, assignee: *See*—
Fawick, Thomas L.
Fawick, Thomas L., Cleveland, Ohio, assignor to Fawick Flexi-Grip Company. Shaft assembly, including handle-grip and hand-loop strap. 2,645,501, July 14.
Fearon, Robert E., assignor to Well Surveys, Incorporated, Tulsa, Okla. Method and apparatus for increasing speed of well logging. 2,645,723, July 14.
Fechheimer, Paul R., assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio. Spout mechanism for filling machines. 2,645,247, July 14.
Federal Carton Corporation, assignee: *See*—
Dorfman, Irving.
Federal Electric Products Company, assignee: *See*—
Cole, Thomas M., and Christensen.
Federal Telephone and Radio Corporation, assignee: *See*—
Kreitchman, Morton A., and Olson.
Labin, Emile.
Reade, Ralph B.
Young, Norman H., Jr.
Feeney, William H., East Providence, and G. W. Smithson, Pawtucket, R. I., assignors to Niles-Bement-Pond Company, West Hartford, Conn. Feed and traverse mechanism for automatic turret lathes. 2,645,134, July 14.
Felker, Lloyd L., assignee: *See*—
Crooker, David E.
Ferguson, Harry, Inc., assignee: *See*—
McRobert, Leon R.
Ferrari, Andrés, Jr., Unlondale, assignor to Technicon Chemical Company, Inc., New York, N. Y. Clearing agents for histological tissue. 2,645,618, July 14.
Ferrari, Andrés, Jr., Unlondale, assignor to Technicon Chemical Company, Inc., New York, N. Y. Clearing agents for histological tissue. 2,645,647, July 14.
Field, Lester M., Palo Alto, assignor to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif. Traveling wave tube. 2,645,737, July 14.
Fields, Ernest, New York, N. Y. Track game with single rail. 2,645,185, July 14.
Fields, George C., Wilmette, Ill., assignor to Whirlpool Corporation, St. Joseph, Mich. Wobble plate laundry machine. 2,645,111, July 14.
Finch, Harry J., Oil City, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Tool for finishing tube ends. 2,645,000, July 14.
Fischer, Georg, Aktiengesellschaft, assignee: *See*—
Von Zelewsky, Ottomar.
Fisher, Franklin C., San Francisco, Calif. Machine for washing watch parts. 2,645,236, July 14.
Fisher, Jesse, assignor to G. F. Meyer, Medford, Wis. Crotch type arrow projector. 2,645,217, July 14.
Fisher, Jesse, assignor to Glo-Lure, Inc., Medford, Wis. Apparatus for casting articles. 2,645,218, July 14.
Fitch, Ellery R., and T. J. Turek, assignors to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Tractor protection valve for braking systems. 2,645,308, July 14.
Fleming, Howard M., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. True negative total recording mechanism. 2,645,417, July 14.
Fleming, Howard M., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Balance scheduling means for listing calculating machines. 2,645,418, July 14.
Flosdorf, Earl W.: *See*—
Brown, George H., Morrison, and Flosdorf.
Food Machinery and Chemical Corporation, assignee: *See*—
Kerr, Charles E.
Forbes, Duncan D., Knoxville, Tenn., assignor to Micromax, Inc., New York, N. Y. Dispersing apparatus. 2,645,464, July 14.
Fortenberry, William W., Perryton, Tex. Junk basket. 2,645,290, July 14.
Fortino, Samuel S., New York, assignor to The Gem Electric Manufacturing Company, Inc., Brooklyn, N. Y. Blade engageable electric connector. 2,645,760, July 14.
Foster, Shubel A., Birmingham, Mich. Accurately repeating dial type comparator. 2,645,020, July 14.
Francescatti, Anton, and R. Micek, Walsenburg, Colo. Chain-mortising square hole cutting attachment for drill presses. 2,645,255, July 14.
Frank, Mark H., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Transmission and control. 2,645,135, July 14.
Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, assignee: *See*—
Heidecke, Reinhold.
Franke, Herman F., Millvale, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Pendulum construction. 2,645,729, July 14.
Frantz, John M., Modesto, Calif. Walnut dehydrator. 2,645,036, July 14.
Frej, Otto, Toftlund, Denmark. Portable pressing table. 2,645,046, July 14.
Fremlin, John H., and R. N. Hall, assignors, by mesne assignments, to International Standard Electric Corporation, New York N. Y. Electron discharge apparatus. 2,645,739, July 14.
Freund, Hermau R., assignor to Intertype Corporation, Brooklyn, N. Y. Justifying apparatus for use in typographical photocomposing machines. 2,645,168, July 14.
Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of paraffins with aluminum bromide. 2,645,601, July 14.
Fruit Products Corporation, assignee: *See*—
Schenk, Tamis C.
Frushour, Russel E., assignor to South Bend Lathe Works, South Bend, Ind. Antenna support tower and erecting and operating same. 2,645,315, July 14.
Fuchslocher, Theodor F. E., Van Nuys, Calif. Reinforced power transmission belt. 2,645,132, July 14.
Fuller, Holne W., assignee: *See*—
Tucker, Jesse D.
Gallan, Pierre H., Marseille, France. Hollow former for the manufacture of shoes. 2,644,970, July 14.
Gallant, Alfred E., and A. C. Markkula, Los Angeles, and R. F. Markkula, North Hollywood, Calif. Fracture nail inserter. 2,645,220, July 14.
Garfield, William L., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Arrangement for indicating the rate of change of a physical effect. 2,645,755, July 14.
Garr, Donald E.: *See*—
Ogle, Hugh M., Garr, and Edwards.
Garrett, Thomas K.: *See*—
Stanfield, James R., and Garrett.
Garrison, Van B., Caldwell, assignor to Air Reduction Company, Incorporated, Murray Hill, N. J. Universal gas cutting and welding apparatus. 2,645,475, July 14.
Gas Machinery Company, The, assignee: *See*—
Stookey, Kenneth W.
Gauthier, William M., Brimley, Mich. Angle control for fish pole holders. 2,645,439, July 14.
Gem Electric Manufacturing Company, Inc., The, assignee: *See*—
Fortino, Samuel S.
General Aniline & Film Corporation, assignee: *See*—
Gross, Siegfried T.
Kinney, Paul W.
Mayhew, Raymond L., and Gross.
Lawsberg, Charles L.
Randall, David I.
Randall, David I., and Renfrew.
Renfrew, Edgar E., and Randall.
Williams, Evan C.
General Bronze Corporation, assignee: *See*—
Segal Arthur B.
General Electric Company, assignee: *See*—
Beatty, John W.
Becker, Howard I.
Dayton, Carl S.
Di Giorgio, Philip A.
Dills, Raymond L.
Hammell, Kemper M.
Hansen, Albert, Jr.
Hunt, Gerald B.
Hurd, Dallas T.
Janos, Alfred G.
Jewell, William R.
Kalikow, Irving.
Nordlander, Birger W., and Burnett.
Ogle, Hugh M., Garr, and Edwards.
Petzold, William B.
Rozburgh, Albert, and Leigh.
Scott, Benjamin B., Greene, and Valentine.
Williams, Ferd E.
General Motors Corporation, assignee: *See*—
Cassidy, Robert J.
Diamond, Milton J.
Frank, Mark H.
Weller, Edward F., Jr., and Doyen.
General Scientific Corporation, assignee: *See*—
Lowenthal, Herman.
General Tire and Rubber Company, The, assignee: *See*—
O'Neil, William F.
Te Grotenhuis, Theodore A., and Swart.
George, Philip D.: *See*—
Di Giorgio, Philip A.





Gerhold, José A., San Antonio Oeste, Rio Negro, Argentina. Rotary pump and motor hydraulic transmission. 2,645,085, July 14.
Gerstenzang, Ralph: *See*—
Brownlie, John, Gerstenzang, and Blamey.
Gibson, Albert G.: *See*—
Staege, Stephen A., and Gibson.
Gilbert & Barker Manufacturing Company, assignee: *See*—
Plossl, George W., and Leety.
Sullivan, Philip J.
Gilligan, Carl W., East Longmeadow, Mass. Headspacing adjusting device for firearms. 2,645,160, July 14.
Gladden, John N., Glendale, Calif. Valve structure. 2,645,451, July 14.
Glanville, Charles R., H. F. Dunlap, and E. W. Shuler, Jr., Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa. Method and apparatus for determining characteristics of earth formations. 2,645,752, July 14.
Glidden Company, The, assignee: *See*—
Drapeau, Joseph E., Jr., and Barber.
Globe-Wernicke Co., The, assignee: *See*—
Macdonald, Angus S.
Glo-Lure, Inc., assignee: *See*—
Fisher, Jesse.
Gluck, Arthur P.: *See*—
Simon, Alfonso J., Jr., and Gluck.
Godsey, Jack M., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Jet fuel containing t-butyl thiophene. 2,645,568, July 14.
Godsey, Jack M., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Jet combustion fuel. 2,645,569, July 14.
Godwin, Lee: *See*—
Dukes, Charles F., and Godwin.
Golden State Company, Ltd., assignee: *See*—
Kempf, Clayton A., and Blanchard.
Golias, Michael, Sharon, Pa. Illuminated signal for fishing pole holders. 2,645,050, July 14.
Goodnow, Harry D.: *See*—
Benedict, Walter L., Goodnow, and Pulsifer.
Goodrich, B. F., Company, The, assignee: *See*—
Dorner, John A.
Goodwin, Edwin C., Canton; Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bench assembled circuit breaker operating mechanism. 2,645,699, July 14.
Goodwin, Paul S., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Slidewire power supply. 2,645,750, July 14.
Goodwin, William N., Jr., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Thermal ammeter. 2,645,756, July 14.
Gorham, George, assignor, by mesne assignments, to Technicon Cardiograph Corporation, New York, N. Y. Multiple-lead electrocardiograph recorder. 2,645,550, July 14.
Gorton, George, Machine Co., assignee: *See*—
Eaerkaln, Theodore F.
Stuart, Robert J., and Gunderson.
Gottlieb, Hans B., Glassboro, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Producing phthalocyanine coloring matters. 2,645,643, July 14.
Gottwegen, Marten, and H. N. Stein, Chicago, Ill. Combination vehicular and portable food and beverage container. 2,645,392, July 14.
Gourdon, Robert L., assignor to Societe Anonyme dite: Centre d'Etudes M. H. A., Paris, France. Item and total printing mechanism for calculating machines. 2,645,419, July 14.
Govett, Thomas, Summit, and M. L. Almquist, Maplewood, N. J., assignors to Rebels Company, Inc. Aluminum chlorhydroxy complex and borate gel. 2,645,616, July 14.
Granade, Fred C., and G. H. A. Ruby, Chicago, Ill., assignors to National Lead Company, New York, N. Y. Compound bore cutting machine. 2,645,162, July 14.
Grand Rapids Store Equipment Company, assignee: *See*—
Vanderveld, Anthony.
Grau, Jaime C., Tarrasa, Spain. Venetian blind. 2,645,282, July 14.
Green, Estill I., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone equalizer circuit. 2,645,681, July 14.
Green, Phillip M., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Electromechanical interval timer. 2,645,767, July 14.
Greenberg, Harry D., and I. L. Sutton, assignors to Sports-Styles, Inc., Rockford, Ill. Lined cap construction. 2,644,948, July 14.
Greene, George F.: *See*—
Scott, Benjamin B., Greene, and Valentine.
Gregory, William C., Compton, Calif. Nonarcing interrupting switch. 2,645,698, July 14.
Greist Manufacturing Company, The, assignee: *See*—
Connors, John.
Griffiths, Henry V., assignor to McCaffrey-Ruddock Tagline Corporation, Los Angeles, Calif. Detachable spring connecting means for spring driven reels. 2,645,432, July 14.
Gross, Siegfried T., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. X-ray diffraction device. 2,645,720, July 14.
Grotz, Mike E., Sheridan, Wyo. Chocking device for vehicles. 2,645,309, July 14.
Grover, Donald P., Chicago, Ill. Rotary toothbrush with lip guard. 2,644,973, July 14.
Gruver, John H.: *See*—
Brainard, George C., and Gruver.
Gusdagna, Joseph, Brooklyn, N. Y. Removable snatch roller. 2,645,187, July 14.
Gulick, David E., Kittanning, assignor to Elder Co., Ford City, Pa. Faucet with pressure sealed expanding washer valve seat. 2,645,449, July 14.
Gunderson, Allen D.: *See*—
Stuart, Robert J., and Gunderson.
Gunderson, Willard R., assignee: *See*—
Ball, James W.
Gunther, Frederick F., assignor to Helmco, Inc., Chicago, Ill. Container support. 2,645,376, July 14.
Gustus, Edwin L., Chicago, Ill. Acid adsorbing resin adsorption product. 2,645,627, July 14.
Gutmann, Addis, Seattle, Wash. Combined garment and sleeping bag. 2,644,948, July 14.
Gutzeit, Carlos L.: *See*—
Lang, William H., and Gutzeit.
Haase, Kurt O., Lafayette, assignor of fifty-five one-hundredths to L. Bono, Oakland, Calif. Gun sight. 2,645,017, July 14.
Hadley, David J., Epsom Downs, and R. Heap, Cheam, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Recovery of selenium. 2,645,664, July 14.
Hadley, Orval P., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Method and means for applying brittle brazing material. 2,645,006, July 14.
Haenny, Rodolphe C., also known as R. C. Hänni, Zurich, Switzerland, assignor to P. Meyer, Paris, France. Harness frame for looms. 2,645,251, July 14.
Haessler, William J., Surf City, N. J., assignor to High Production Machine Co., Inc., Philadelphia, Pa. Transfer device for box wrapping machines. 2,645,365, July 14.
Haigh, Leslie B.: *See*—
Hatton, William, Haigh, and Kozma.
Hall, Roger N.: *See*—
Fremlin, John H., and Hall.
Hall, Ronald B.: *See*—
Wharton, John, and Hall.
Halpern, Bernard R., New York, N. Y. Optically true support for photographic film, copy, or other material. 2,645,153, July 14.
Hammell, Kemper M., Harrisburg, Pa., assignor to General Electric Company. Control mechanism for clothes driers. 2,645,032, July 14.
Hanell, Stig G.: *See*—
Alfredsson, Karl G. E., and Hanell.
Hanley, Stanley M., assignee: *See*—
Bixby, William H.
Hänni, Rodolf C.: *See*—
Haenny, Rodolphe C.
Hansalik, Frederick, Island Park, N. Y. Roll separator. 2,645,189, July 14.
Hansen, Albert, Jr., Lynn, Mass., assignor to General Electric Company. Potentiometric measuring system and apparatus. 2,645,748, July 14.
Hara, James R., Honolulu, Hawaii. Nonhook nonslice grip finder for golf clubs. 2,645,484, July 14.
Hardesty, Thomas M., Crockett, Calif. Fluid motor valve construction. 2,645,208, July 14.
Hardy, René, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Panoramic receiver. 2,645,711, July 14.
Haresnape, John N., and S. Hesling, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Production of a gaseous petroleum fraction rich in hydrogen. 2,645,562, July 14.
Harmon, James J., Jr., Clayton, assignor to Ludlow-Saylor Wire Co., St. Louis, Mo. Wire cloth tube forming machine. 2,645,702, July 14.
Harrington, Bertie S.: *See*—
Allbright, Norman J., Illsley, and Harrington.
Harris, Richard K., administrator: *See*—
Crouch, Willie W., and Cotton.
Harris, Robert L., and M. Lothrop, Berkeley, assignors to Yuba Manufacturing Company, San Francisco, Calif. Steam generator. 2,645,210, July 14.
Harris-Seybold Company, assignee: *See*—
Wood, William H.
Harrison, Henry: *See*—
Dailey, Catherine B., and Harrison.
Harry, William R.: *See*—
Van Ryan, Anthony, and Harry.
Hart, James M., Philadelphia, Pa. Trammel and beam instrument. 2,645,022, July 14.
Hartford National Bank and Trust Company, trustee, assignee: *See*—
Bruijning, Hugo G.
Coeterier, Frederik.
Klinkert, Leonard, Moubis, and Jenker.
Van de Lindt, Willem J.
Hartz, Julius, New Orleans, La. Radio transmission and carrier wave modulation. 2,645,710, July 14.
Harvard Manufacturing Company, The, assignee: *See*—
Blanke, Nathan E., and Sands.
Harwood, H., and Sons, Inc., assignee: *See*—
Hawes, Edward H.

Hasche, Rudolph L., Johnson City, Tenn., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Producing acetylene. 2,645,673, July 14.

Hastings, Carlton H., Newton, and S. W. Carter, Hopkinton, Mass. Apparatus for dynamic determination of reduction in area of specimens during mechanical tests. 2,645,151, July 14.

Hastings Manufacturing Company, assignee: *See*—
Byerlay, Henry L.

Hatton, William, Great Neck, N. Y., L. B. Haigh, West Orange, N. J., and L. Kozma, Budapest, Hungary, assignors to International Standard Electric Corporation, New York, N. Y. Calculator equipment working with teleprinter. 2,645,420, July 14.

Hawes, Edward H., assignor to H. Harwood and Sons, Inc., Natick, Mass. Baseball. 2,645,487, July 14.

Hawkins, Frederick E., Niles, R. Lapsley, Berrien Springs, and G. L. Turner, assignors to Clark Equipment Company, Buchanan, Mich. Hydraulic fluid motor-in-wheel. 2,645,298, July 14.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire tread removing and truing device. 2,645,147, July 14.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.

Hayter, Richard J., North Hollywood, Calif. Egg-grading machine. 2,645,344, July 14.

Haythornthwaite, James J., and J. Calvert, Accrington, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England. Means for supporting and loading the top rollers of textile drafting apparatus. 2,644,988, July 14.

Hayward, Frank W., Takoma Park, and C. J. Zablocki, Silver Spring, Md. High-speed camera. 2,645,169, July 14.

Heap, Robert: *See*—
Hadley, David J., and Heap.

Heebler, Arthur C.: *See*—
McDowell, Thomas E., and Heebler.

Heebler, Arthur C., assignor to The Pyle-National Company, Chicago, Ill. Shockproof mounting for warning lights. 2,645,762, July 14.

Heebler, Arthur C., assignor to The Pyle-National Company, Chicago, Ill. Railway warning light control system. 2,645,763, July 14.

Heidecke, Reinhold, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions-Apparate, Braunschweig, Germany. Film guide structure for photographic cameras. 2,645,170, July 14.

Hein, Henry, Pittsburgh, Pa. Window shade bracket. 2,645,445, July 14.

Heistand, John L., Overland, Mo. Holding device for fishing rods and fishing poles. 2,645,440, July 14.

Helmco, Inc., assignee: *See*—
Gunther, Frederick F.

Henkel, Erich, Calumet City, Ill., and H. G. Nehrbas, Hammond, Ind., assignors to Combustion Engineering, Inc. Pressure regulator and cutoff with auxiliary manual control. 2,645,061, July 14.

Hepp, Harold J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heat exchange conversion process. 2,645,606, July 14.

Hermann, Friedrich J., Seine, France, assignor to Reichhold Chemicals, Inc., Detroit, Mich. Manufacture of synthetic resins from phenols and aldehydes and of polyphenols therefor. 2,645,623, July 14.

Herrcke, Ralph J., Los Angeles, Calif. Laundry ironer rack. 2,645,364, July 14.

Herres, Schuyler A., Albany, and T. K. Redden, Cohoes, N. Y., assignors to Allegheny Ludlum Steel Corporation. Chromium-nickel titanium base alloys. 2,645,575, July 14.

Herzog, Carl, assignor to Eternit A.-G., Niederurnen, Glarus, Switzerland. Making corrugated slabs. 2,645,269, July 14.

Hesling, Stephen: *See*—
Haresnape, John N., and Hesling.

Hester, Dwight, Chicago, Ill. Liquid dispenser. 2,645,388, July 14.

Heston, Bernard O.: *See*—
Walker, John C., and Heston.

Hettrick Manufacturing Company, The, assignee: *See*—
Smith, William I.

Hetzel, Stanford J., Cheltenham, Pa. Cushion lining for dentures. 2,645,012, July 14.

Hicks, Carl D.: *See*—
Platt, Donald R., Porterfield, and Hicks.

High Production Machine Co., Inc., assignee: *See*—
Haessler, William J.

Hildmann, William B., assignor to Brock & Rankin, Chicago, Ill. Jog feeder for books. 2,645,327, July 14.

Hill, Robert H., assignor to himself and H. Hoffman, Elgin, Ill. Control apparatus. 2,644,999, July 14.

Hillenbrand, William A., Franklin County, and F. J. Burst, assignors to Hill-Rom Company, Inc., Batesville, Ind. Safety step for beds. 2,644,061, July 14.

Hill-Rom Company, Inc., assignee: *See*—
Hillenbrand, William A., and Burst.

Hinderer, Walter F., Kankakee, Ill. Worktable and sinebar feature. 2,645,067, July 14.

Hispeed Equipment, Inc., assignee: *See*—
Edwards, Charles N.

Hitchcock, Paul C.: *See*—
Edsall, William S., and Hitchcock.

Hitchens, Harry E., assignor of fifty per cent to J. E. Berl, Baltimore, Md. Pad. 2,644,963, July 14.

Hoe, R., & Co., Inc., assignee: *See*—
Dressel, Arthur, and Albrecht.

Hoekstra, James, Evergreen Park, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of silica. 2,645,619, July 14.

Hoff, Ronald C., assignor to Eries Manufacturing Company, Erie, Pa. Apparatus for magnetic separation of materials. 2,645,348, July 14.

Hoffman, Alfred E., Clarendon Hills, assignor to Universal Oil Products Company, Chicago, Ill. Improving the drying qualities of hydrocarbon co-polymer drying oils. 2,645,649, July 14.

Hoffman, Harold, assignee: *See*—
Hill, Robert H.

Hogg, John A., assignor to The Upjohn Company, Kalamazoo, Mich. Haloethylhydrocarbonoxycyclohexenes. 2,645,666, July 14.

Holford, Hastings J., Yatton, and A. J. Challis, assignors to Holford Processes Limited, London, and George Adlam & Sons Limited, Bristol, England. Vertical shale retort. 2,645,609, July 14.

Holford Processes Limited, assignee: *See*—
Holford, Hastings J., and Challis.

Hollenkamp, Theodore J., Detroit, Mich. Grouser. 2,645,532, July 14.

Holm, Ralph L.: *See*—
Dalgliish, James J., and Holm.

Holm, Sven, Wellsville, assignor to The Air Preheater Corporation, New York, N. Y. Plate type heat exchanger. 2,645,462, July 14.

Holmes, Ester, assignee: *See*—
Holmes, Joseph E.

Holmes, Joseph E., assignor of one-half to E. Holmes, Huntington Park, Calif. Hedge trimmer. 2,645,010, July 14.

Holmes, Wilbur C., Hollydale, assignor to Tap and Drill Ez Corp., Inglewood, Calif. Metal-working lubricant. 2,645,614, July 14.

Holthouse, Harry B.: *See*—
Holthouse, Harry B., Sr., and H. B. Holthouse, Jr.

Holthouse, Harry B., Jr.: *See*—
Holthouse, Harry B., Sr., and H. B. Holthouse, Jr.

Holthouse, Harry B., Sr., and H. B. Holthouse, Jr., Chicago, Ill., assignors, by mesne assignments, to H. B. Holthouse. Ignition system and means for initiating combustion of fuel in a fuel burner. 2,645,278, July 14.

Horn, Charles H., Sunland, and S. H. Smith, Burbank, Calif. Emergency shutoff valve. 2,645,239, July 14.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor ot Bailey Meter Company. Temperature measuring apparatus. 2,645,126, July 14.

Houser, Abbott F.: *See*—
Myers, Harold C., Pukkila, Houser, and King.

Houston, John W., Grinnell, Iowa. Hole digger. 2,645,457, July 14.

Hoving, Hindrik J., assignee: *See*—
Bogaards, Jacob N.

Huber, Robert, Believue, France, assignor to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland. Free piston engine having hollow pistons. 2,645,213, July 14.

Hughey, John B., assignee: *See*—
Stephenson, Noah L.

Hull, Henry E., Worthington, assignor, by mesne assignments, to Rockwell Tools, Inc., Columbus, Ohio. Buck-saw frame. 2,645,260, July 14.

Hummel, Charles: *See*—
Stettler, Walther, and Hummel.

Hundstad, Richard L., Pittsburgh, Pa. Direction and velocity measuring instrument. 2,645,123, July 14.

Hunt, C. B., & Son, Inc., assignee: *See*—
Chessman, Samuel C.

Hunt, Gerald B., Erie, Pa., assignor to General Electric Company. Brake rigging. 2,645,310, July 14.

Hunt, Harold R.: *See*—
Richmond, James H., Boehm, and Hunt.

Hunter, Melvin J., assignor to Dow Corning Corporation, Midland, Mich. Silanes and siloxanes containing t-alkoxy radicals and polymers plasticized and stabilized therewith. 2,645,624, June 14.

Hupp, Arleigh G., Milwaukee, Wis. Hair drier. 2,645,034, July 14.

Hurd, Dallas T., Burnt Hills, N. Y., assignor to General Electric Company. Vinyl polysiloxane compositions. 2,645,628, July 14.

Hyde, James F., Corning, N. Y., assignor to Dow Corning Corporation, Midland, Mich. Siloxane-aluminum compositions and preparing them. 2,645,654, July 14.

Hydraulic Research & Mfg. Co. Inc., assignee: *See*—
Monnich, Carl E.

Hydropress, Incorporated, assignee: *See*—
Cozzo, Giuseppe.

Ideal Sales Corporation, assignee: *See*—
Lowe, Clarence A.

Ilisley, Ralph W.: *See*—
Allbright, Norman J., Ilisley, and Harrington.

Imperial Chemical Industries Limited, assignee: *See*—
Adams, Dennis A. W., Davies, and Wilson.
Pollock, Freedrick J.
Taylor, Ambrose G., and Caldwell.





Incomex Handelsages, m. b. H., assignee: *See*—
Töpfer, Richard J.

Industrial Rayon Corporation, assignee: *See*—
Malm, Lawrence L.

Ingeniorsfirman Flisaberg Aktiebolag, assignee: *See*—
Nordstrand, Sven G.

Ingwersen, Richard C., assignor to Mechanical Products, Inc., Jackson, Mich. Snap action electric switch with overload protection. 2,645,691, July 14.

International Business Machines Corporation, assignee: *See*—
Luhn, Hans P.
Luhn, Hans P., and Johnson.
Platt, Donald R., Porterfield, and Hicks.
Sprecker, Alfred L.

International Harvester Company, assignee: *See*—
Karlsson, Elof K.

International Standard Electric Corporation, assignee: *See*—
Fremlin, John H., and Hall.
Garfield, William L.
Hardy, René.
Hatton, William, Haigh, and Kozma.
McWhirter, Eric M. S., and Popp.
Reeves, Alec H.

Intertype Corporation, assignee: *See*—
Freund, Herman R.

Ipatieff, Vladimir N.: *See*—
Pines, Herman, and Ipatieff.

Isenbarger, Robert O., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill. Self-contained oil seal. 2,645,507, July 14.

J & S Carburetor Co., assignee: *See*—
Jones, Sam P.

Jackson, Byron, Co., assignee: *See*—
Lundeen, Chester A.
Scott, Lyle B.

Jackson, John G.: *See*—
Eastman, Harlan J., and Jackson.

Jaksekovich, Stephen, Kewaunee, Wis. Cowtail suspender. 2,645,203, July 14.

Janos, Alfred G., Erie, Pa., assignor to General Electric Company. Continuous icemaking apparatus. 2,645,098, July 14.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jenner, Arthur J., Arlington Heights, assignor of one-half to A. F. Szymborski, Chicago, Ill. Measuring device for spray applicators in prevention of offset and the like. 2,645,529, July 14.

Jensen, Frederick W., assignor to Texas A. & M. Research Foundation, College Station, Tex. Determining the end point of a titration. 2,645,563, July 14.

Jewell, William R., Erie, Pa., assignor to General Electric Company. Shelf assembly. 2,645,359, July 14.

Johansson, Göte, Nykoping, Sweden. Device in Venetian blinds or the like. 2,645,283, July 14.

Johnson, C. S., Company, The, assignee: *See*—
Appel, Theodore B., Jr.

Johnson, Matthey & Company Limited, assignee: *See*—
Kerridge, Frank E., Belham, and Pearce.

Johnson, Moses L., assignor of forty-nine per cent to M. D. Mazursky, Sumter, S. C. Tractor wheel guard. 2,645,303, July 14.

Johnson, Paul E.: *See*—
Müller, Ferdinand H., and Johnson.

Johnson, Richard L.: *See*—
Luhn, Hans P., and Johnson.

Johnson, Shirley, assignee: *See*—
Nourse, Ira C.

Johnston Testers, Inc., assignee: *See*—
Deters, Bruce A., and Butler.

Jones, David E., Columbus, Ohio. Combination linear scale. 2,645,019, July 14.

Jones, Frank J., assignor of one-sixth to L. Selvia and one-sixth to G. W. Nesbet, West Terra Haute, Ind. Adjustable reel-type hedge trimmer. 2,645,074, July 14.

Jones, Jack E. and J. D., Greensboro, N. C. Bookmarker. 2,645,197, July 14.

Jones, Joe D.: *See*—
Jones, Jack E. and J. D.

Jones & Laughlin Steel Corporation, assignee: *See*—
Finch, Harry J.

Jones, Sam P., assignor to J & S Carburetor Co., Dallas, Tex. Carburetor fuel system, including diaphragm valves. 2,645,466, July 14.

Jonker, Johan L. H.: *See*—
Klinkert, Leonard, Moubis, and Jonker.

Jorg, Grace C., assignee: *See*—
Chapman, Raymond J.

Jorg, Roy J., assignee: *See*—
Chapman, Raymond J.

Jorg, Roy J., Jr., assignee: *See*—
Chapman, Raymond J.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for trimming lasted shoes. 2,644,967, July 14.

Jorgensen, George F., Norfolk, Va. Paddle for disciplining children. 2,645,488, July 14.

Jorgenson, John P.: *See*—
Kling, Olaf E., and Jorgenson.

Judson, Victor J., Goshen, Ind. Trailer coach roof structure. 2,645,521, July 14.

Jubola, Carl, Manchester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for dielectric adhesive bonding of shoe parts. 2,644,966, July 14.

Jumper, Herman E., Port Clinton, Ohio. Guard for bathtubs and shower stalls. 2,644,954, July 14.

June, Samuel P., Willoughby, Ohio. Retainer molding for floor coverings. 2,644,977, July 14.

Juzwiak, Edmond A., and F. S. Ajero, Chicago, Ill., assignors, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Material spreading apparatus. 2,645,384, July 14.

Kahn, Samuel, Bridgeport, Conn., assignor, by mesne assignments, to Maryland Devices, Inc., Baltimore, Md. Flexible tube discharge valve construction. 2,645,387, July 14.

Kaiser, Fritz: *See*—
Blessing, Albert, Staudenmeier, Tilch, and Kaiser.

Kalikow, Irving, Swampscott, Mass., assignor to General Electric Company. Mounting device for engine accessories. 2,645,438, July 14.

Kandle, Louis A., Philadelphia, Pa., assignor to Penjay Manufacturing Company, Delanco, N. J. Bottle breaking apparatus. 2,645,428, July 14.

Kaplan, Irving, Jamaica, N. Y. Tape release for tape applicators. 2,645,477, July 14.

Karlsson, Elof K., Moline, Ill., assignor to International Harvester Company. Corn picker roll adjusting mechanism. 2,645,075, July 14.

Karlstrom, Johan F. R., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Kitchen mixing machine. 2,645,465, July 14.

Kavanaugh, Floyd J., Galveston, Tex., assignor to R. C. Allen Business Machines, Inc., Grand Rapids, Mich. Adjustable escapement mechanism for typewriters. 2,645,324, July 14.

Keizer, Eugene O., Princeton, N. J., assignor to Radio Corporation of America. Variable inductance structure. 2,645,718, July 14.

Keller, Ernst, Zurich, assignor to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland. Magnetic sound recorder. 2,645,494, July 14.

Keller and Knappich G. m. b. H. Maschinenfabrik, assignee: *See*—
Blessing, Albert, Staudenmeier, Tilch, and Kaiser.

Kelling Nut Co., The, assignee: *See*—
Nemir, Clarence T.

Kellogg, M. W., Company, The, assignee: *See*—
Aleck, Benjamin J.

Kelly, Kennett C., San Francisco, Calif. Roofing asphalt spray system. 2,645,524, July 14.

Kempf, Clayton A., Berkeley, Calif., and E. L. Blanchard, Washington, D. C., assignors to Golden State Company, Ltd., San Francisco, Calif. Dried milk product for use in coffee or the like and producing same. 2,645,579, July 14.

Kendick Manufacturing Company, Inc., assignee: *See*—
Bugg, Kenly C.

Kennedy, Benjamin H., Pittsford, N. Y. Infant's bathing device. 2,644,953, July 14.

Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Supply control mechanism for container handling machines. 2,645,326, July 14.

Kerr, Charles E., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Filling valve with head space providing means. 2,645,401, July 14.

Kerridge, Frank E., and M. Belham, London, and G. Pearce, Kingsthorpe, Northampton, assignors to Johnson, Matthey & Company Limited, London, and Painton & Company, Limited, Kingsthorpe, Northampton, England. Electrical resistor and resistance elements therefor. 2,645,701, July 14.

Kersey, Owen, Lemoyne, Pa. Dumping truck. 2,645,522, July 14.

Keyser, Paul Y., Jr.: *See*—
Brown, Clayton W., and Keyser.

Keystone Metal Moulding Company, assignee: *See*—
Kletzmann, Paul A.

Kiefer, Karl, Machine Company, The, assignee: *See*—
Fechheimer, Paul R.

Kletzmann, Paul A., assignor to Keystone Metal Moulding Company, East Detroit, Mich. Buffing wheel. 2,645,065, July 14.

King, John D., Clairton, Pa. Cutter bit. 2,645,471, July 14.

King, William H.: *See*—
Myers, Harold C., Pukkila, Houser, and King.

Kinneman, William P., Westfield, and W. N. Biker, Tenafly, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y. Reinforcing of concrete piles. 2,645,090, July 14.

Kinney, Paul W., Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Stabilized rubber adhesive compositions. 2,645,674, July 14.

Kitcat, Lewis G., London, England. Nipping press for bookbinding. 2,644,965, July 14.

Klear-Vu Corporation, assignee: *See*—
Mintz, Jacob J., and Muller.

Klickman, Amiel F., Toledo, Ohio. Close-off device for pipe lines. 2,645,244, July 14.

Kling, Olaf E., Chicago, and J. P. Jorgenson, Wilmette, Ill. Tumbler. 2,645,033, July 14.

Klinkert, Leonard, G. C. A. M. Moubis, and J. L. H. Jonker, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mounting the electrode system for electric discharge tubes. 2,644,998, July 14.

Knapp, Charles F., Mariners Harbor, N. Y. Smoker's ash receptacle. 2,645,230, July 14.

Kniel, Ludwig, Scarsdale, assignor to The Lummus Company, New York, N. Y. Fractional distillation. 2,645,104, July 14.

Knight, John P., Birmingham, Mich. Device for supplying ink to ribbons. 2,645,202, July 14.

Kollsman Instrument Corporation, assignee: *See*— Andresen, John H., Jr.

Koppers Company, Inc., assignee: *See*— D'Alello, Gaetano F. Nimmo, Robert H.

Kott, Herbert, Flushing, assignor to Automatic Nailing Machinery Co., Inc., New York, N. Y. Means for strapping boxes. 2,644,944, July 14.

Kozma, Ladislas: *See*— Hatton, William, Haigh, and Kozma.

Krag Steel Products, Inc., assignee: *See*— Nelson, John V.

Krahulec, Fred: *See*— Bateman, George H., and Krahulec.

Kraus, Anton, Vienna, Austria. Lock for containers. 2,645,112, July 14.

Krause, Jack H.: *See*— Tom, Theodore B., and Krause.

Kreitchman, Morton A., Irvington, and W. J. Olson, Bloomfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Cabinet structure for washing machines. 2,645,548, July 14.

Kuhn, Fred, Detroit, Mich. Refrigerated display cabinet construction. 2,645,096, July 14.

Labin, Emile, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Pulsed radio remote-control system. 2,645,771, July 14.

Labino, Dominick, Maumee, Ohio, and V. G. Politsch, Alton, Ill., assignors to Owens-Illinois Glass Company. Liquid level motor control system. 2,645,749, July 14.

Lackinger, Frank P., McKees Rocks, Pa. Apparatus for bleeding air and replacing liquid in hydraulic brake systems. 2,645,314, July 14.

L'Aire Liquide, Societe Anonyme pour l'Etude et l'Exploitation des procédés Georges Claude, assignee: *See*— Volff, Charles, and Bogatenkoff.

Lambach, Fritz, Tenafly, assignor to Robert Reiner, Inc., Weehawken, N. J. Warp knitting machine. 2,645,106, July 14.

Lang, William H., Wenonah, and C. L. Gutzeit, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Reforming and catalysts therefor. 2,645,605, July 14.

Langen, Eugen, Haus Etzweiler, Elsdorf, Germany, assignor, by mesne assignments, to Superior Sugar Extraction, Inc., New York, N. Y. Method and apparatus for the continuous extraction of sugar from sugar beets. 2,645,589, July 14.

La Porte, Francis L., assignee: *See*— La Porte, Louis F.

La Porte, Louis F., Rolla, Mo., assignor to F. L. La Porte, Burlingame, Calif. Defrosting arrangement in refrigeration. 2,645,101, July 14.

Lapsley, Robert: *See*— Hawkins, Frederick E., Lapsley, and Turner. Turner, George L., and Lapsley.

Larson, John V., Chicago, Ill. Adjustable self-closing pipe wrench and the like. 2,645,145, July 14.

Larson, Orion G., Denver, Colo. Screw-operated vise having shiftable nut for quick adjustment. 2,645,143, July 14.

Lathrop, Harry D., assignor to The Lathrop-Paulson Company, Chicago, Ill. Can cover inserting device. 2,645,400, July 14.

Lathrop-Paulson Company, The, assignee: *See*— Lathrop, Harry D.

Lattman, Charles W., Oakland, Calif. Portable dispensing tank. 2,645,381, July 14.

Lawler, John A., assignor to Boeing Airplane Company, Seattle, Wash. Air induction system heating in supercharged engine. 2,645,409, July 14.

Lawsberg, Charles L., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Coloring woven glass fibers. 2,645,553, July 14.

Lawshe, Errol R., Ridgewood, N. J., and J. H. Smoot, Darien, Conn., assignors to Becton Dickinson and Company, Rutherford, N. J. Injection device. 2,645,223, July 14.

Leach, Richard, Roxbury, Mass. Bleacher back rest. 2,645,274, July 14.

Leas, William J., Tulsa, Okla., assignor to Standard Oil Development Company. Displacement type sampler. 2,645,289, July 14.

Lecanu-Deschamps, Oliver, Levallois-Perret, France. Removable luggage carrier. 2,645,391, July 14.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Kerf cutterhead mechanism for mining machines. 2,645,470, July 14.

Lee, Burton D., Houston, Tex., assignor to The Texas Company, New York N. Y. Hunt suppressor. 2,645,747, July 14.

Lee Engineering Company, assignee: *See*— Lee, Royal.

Lee, Royal, Elm Grove, assignor to Lee Engineering Company, Milwaukee, Wis. Governor speed adjusting apparatus. 2,645,473, July 14.

Leety, William E.: *See*— Plossl, George W., and Leety.

Leigh, Albert: *See*— Roxburgh, Albert, and Leigh.

Leland Stanford Junior University, The, Board of Trustees of The, assignee: *See*— Field, Lester M.

Leonard, William T., assignor to Textile Trimming & Boarding Machine Co., Inc., Reading, Pa. Control means for buttonholing apparatus. 2,645,190, July 14.

Lever Brothers Company, assignee: *See*— Paterson, William J.

Levin, Carl A., Park Ridge, assignor to Ditto, Incorporated, Chicago, Ill. Drum stop mechanism for rotary duplicating machines. 2,645,174, July 14.

Lewel Manufacturing Company, Inc., The, assignee: *See*— Lewis, Benn.

Lewis, Benn, Maplewood, N. J., assignor to The Lewel Manufacturing Company, Inc., New York, N. Y. Foundation garment. 2,644,945, July 14.

Lewis, Irving R., Metuchen, N. J., and D. M. McBean, Rochester, N. Y., assignors to Merck & Co., Inc., Rahway, N. J. Sterilizing apparatus and method. 2,645,557, July 14.

Lewis, John H. W., Chaldon, near Caterham, England. Portable ironing stand with iron support. 2,645,045, July 14.

Lewyt Corporation, assignee: *See*— Meyerhoefer, Carl E.

Linn, Norman F., Summit, H. Ernst, Jr., Fanwood, and A. K. Scott, Westfield, N. J., assignors to Standard Oil Development Company. Sulfur dioxide extraction process. 2,645,608, July 14.

Lipman, Frederick M., Yonkers, assignor to Charles Marchand Company, New York, N. Y. Compositions for tinting hair. 2,645,595, July 14.

Loedel, Marie W.: *See*— Menz, Emil, and Schmidt.

London, Isreal J., Detroit, Mich. Towel grip. 2,645,351, July 14.

Long, Henry R., Linden, N. J. Sheet delivery system for presses. 2,645,480, July 14.

Long, Vinje M., Lewistown, Mont. Support structure for boom type crop sprayers. 2,645,523, July 14.

López, Carlos R., Leon, Spain. Electric energy meter. 2,645,757, July 14.

Lorentzen Hardware Mf'g. Corp., assignee: *See*— Nelson, Harry.

Lothrop, Marcus: *See*— Harris, Robert L., and Lothrop.

Lotthammer, Eric K.: *See*— Martin, Nora B., and Lotthammer. Taylor, William F., and Lotthammer.

Lovelace, Clive E. C.: *See*— Mildner, Raymond C., and Lovelace.

Lowe, Clarence A., assignor to Ideal Sales Corporation, Columbus, Ohio. Pumping apparatus. 2,645,184, July 14.

Lowenthal, Herman, assignor to General Scientific Corporation, Chicago, Ill. Photographic objective of the triplet type. 2,645,157, July 14.

Loy, Georg, assignor to J. S. Staedtler, Mars-Bleistiftfabrik, Nurnberg, Germany. Pencil lead. 2,645,582, July 14.

Lubszynski, Hans G., Northwood, assignor to Electric & Musical Industries Limited, Hayes, England. Circuit arrangement embodying electron discharge devices employing target electrodes. 2,645,740, July 14.

Lucas, James H., and N. A. Talpey, York, Maine. Curb stop and drain. 2,645,452, July 14.

Ludlow-Saylor Wire Co., assignee: *See*— Harmon, James J., Jr.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Accumulating control mechanism. 2,645,421, July 14.

Luhn, Hans P., Armonk, and R. L. Johnson, Wappingers Falls, assignors to International Business Machines Corporation, New York, N. Y. Record controlled printing apparatus. 2,645,323, July 14.

Lummus Company, The, assignee: *See*— Kniel, Ludwig.

Lundeen, Chester A., Los Angeles, assignor to Byron Jackson Co., Vernon, Calif. Pipe spinning tong. 2,645,460, July 14.

Lundstrom, Ida, St. Louis, Mo. Cord locking means. 2,645,284, July 14.

Lynch, Thomas E., assignor to The Brush Development Company, Cleveland, Ohio. Magnetic recording and reproducing. 2,645,682, July 14.

MB Manufacturing Company, Inc., The, assignee: *See*— Willson, Abner R., and Nelson.

Macdonald, Angus S., near Rapidan, Va., assignor to The Globe-Wernicke Co. Compacted bookstack. 2,645,356, July 14.

Machinefabriek Reineveld N. V., assignee: *See*— Zwaard, Henricus C. A.

Machine Tool Works Oerlikon, Administration Company, assignee: *See*— Keller, Ernst.





Mackintosh, Donald D. R., Chicago, Ill. Nipple threading machine. 2,644,904, July 14.

MacLaren, Frederick H.: *See*— Pramuk, Edward M. B., and MacLaren.

Madorsky, Samuel L., Chicago, Ill., and A. K. Brewer, Richland Center, Wis., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Separation of isotopic ions. 2,645,610, July 14.

Magida, Herbert N., Chicago, Ill. Foot actuated exercising device. 2,645,482, July 14.

Mahone, Thomas L., Hampton, Va. Inclinometer. 2,645,030, July 14.

Malerhofer, Hans G., New York, N. Y. Air pump. 2,645,414, July 14.

Maisch, Oliver, Chicago, Ill. Pipette control means. 2,645,245, July 14.

Makrauer, Irvin, assignor to Sydney-Thomas Corporation, Cincinnati, Ohio. Bonding an end closure to a thermoplastic bag. 2,645,591, July 14.

Malm, Lawrence L., Rocky River, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Sodium sulfate recovery. 2,645,561, July 14.

Mancini, Pat V., Lakewood, N. J. Dispenser for rolls of cotton. 2,645,543, July 14.

Mangold, Hans, Furth (Bavaria), Germany. Toy vehicle with movable figure. 2,645,056, July 14.

Marasco, Vincent, Los Angeles, Calif. Knife assembly for fruit slicers. 2,645,262, July 14.

Marchand, Charles, Company, assignee: *See*— Lipman, Frederick M.

Marchisio, Robert O., Wenham, assignor to Sylvania Electric Products Inc., Salem, Mass. Mounting plate for fixtures employing elongated tubular lamps. 2,645,708, July 14.

Markkula, Armas C.: *See*— Gallant, Alfred E., and A. C. and R. F. Markkula.

Markkula, Raymond F.: *See*— Gallant, Alfred E., and A. C. and R. F. Markkula.

Markuc, Anton J.: *See*— Petersen, Paul, and Markuc.

Marquardt Aircraft Company, assignee: *See*— Drake, John A.

Marsal, Paul A., Rocky River, Ohio, assignor to Union Carbide and Carbon Corporation. Commutator. 2,645,732, July 14.

Marsal, Paul A., Rocky River, Ohio, assignor to Union Carbide and Carbon Corporation. Commutator. 2,645,733, July 14.

Marshall Field and Company, assignee: *See*— Moberg, Ivar O.

Martin, Leo P., Decatur, Ill. Sort verifier for punched cards. 2,645,152, July 14.

Martin, Nora B., Chicago, Ill., and E. K. Lotthammer, Jamaica, N. Y.; said Lotthammer assignor to said Martin. Picnic box. 2,645,332, July 14.

Martin, Paul N., Penn Township, Allegheny County, assignors to Westinghouse Air Brake Company, Wilmerding, Pa. Electron tube circuits. 2,645,710, July 14.

Maryland Devices, Inc., assignee: *See*— Kahn, Samuel.

Masonite Corporation, assignee: *See*— Richmond, James H., Boehm, and Hunt.

Massa, Frank, Cleveland Heights, Ohio. Vending system. 2,645,416, July 14.

Massman, Albert W., Wheaton, assignor to Motorola, Inc., Chicago, Ill. Synchronization circuit. 2,645,717, July 14.

Materials Blasting Company, Inc., assignee: *See*— Bugg, Kenly C.

Mathison, Wegor E., Glen Ellyn, Ill. Dental clamp. 2,645,013, July 14.

Mathison, Wegor E., Glen Ellyn, Ill. Hingeless dental clamp. 2,645,014, July 14.

Mattano, Leonard A., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Stilbene from benzyl mercaptan. 2,645,671, July 14.

Matter, Albert J., Park Ridge, Ill. Replaceable jaw for wrenches. 2,645,146, July 14.

Matthews, Ewing F., Batesville, Ark. Sweat pan for flush tanks. 2,644,955, July 14.

Mattbews George A., assignor to The Detroit Edison Company, Detroit, Mich. Circuit breaker with extended contact travel. 2,645,689, July 14.

Matthias, Lynn H.: *See*— De Smidt, Woodrow A., and Matthias.

Mattson, Rupert C., Rapid City, S. Dak. Refuse packaging receptacle. 2,645,071, July 14.

May, Richard W., and R. S. Pyle, assignors to Collins Radio Company, Cedar Rapids, Iowa. Automatic tuning control for radio apparatus and the like. 2,645,321, July 14.

Mayer, Leonard J.: *See*— Brath, William J., and Mayer.

Mayhew, Raymond L., Phillipsburg, and J. M. Cross, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Paper pulp foam inhibitor. 2,645,617, July 14.

Maytag Company, The, assignee: *See*— Smith, Thomas R.

Maxursky, Morris D., assignee: *See*— Johnson, Moses L.

McBean, Douglas M.: *See*— Lewis, Irving R., and McBean.

McCaffrey-Ruddock Tagline Corporation, assignee: *See*— Griffitts, Henry V.

McCallick, William P., and Y. L. Sanchez, Los Angeles, Calif. Counting and packing machine. 2,645,397, July 14.

McCann, Michael, Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Automatic buttonclamp lifting means. 2,645,192, July 14.

McCloy, Graham S., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Refrigeration apparatus. 2,645,094, July 14.

McCormick, Charles A.: *See*— Moore, Walter W., and McCormick.

McCrory, Lois W., Jeffersonville, Ga. Bed covering. 2,644,962, July 14.

McDonald, William M., Nobel, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Spacing means for the wall sections of flame tubes. 2,645,081, July 14.

McDowell, Thomas E., and A. C. Heebler, assignors to The Pyle-National Company, Chicago, Ill. Illumination apparatus for warning and signaling purposes. 2,645,761, July 14.

McDowell, Thomas E., assignor to The Pyle-National Company, Chicago, Ill. Railway warning light control system. 2,645,766, July 14.

McFarland, Matthew J., Riverdale, N. Y. Bead chain clasp for jewelry. 2,644,992, July 14.

McGraw Electric Company, assignee: *See*— Van Ryan, Anthony, and Harry.

McIlvaine, Robert L., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill. Apparatus for and method of water supply control for dust collectors. 2,645,304, July 14.

McKinstry, Alston R., Brunswick, assignor to Seafood Equipment Corporation, Glynn County, Ga. Shrimp deveiner and splitter. 2,644,980, July 14.

McMahon, John R., Los Angeles, Calif. Mechanical card game apparatus. 2,645,493, July 14.

McQuiddy, Jesse H.: *See*— Thompson, Alfred L., Nystrom, McQuiddy, and Stanley.

McRobert, Leon R., Greeley, Colo., assignor to Harry Ferguson, Inc., Detroit, Mich. Position control apparatus for beet harvesters. 2,645,072, July 14.

McWatters, Robert S., Ottawa, Ontario, Canada. Beverage brewing device. 2,645,173, July 14.

McWhirter, Eric M. S., Mount Vernon, and F. G. Popp, assignors to International Standard Electric Corporation, New York, N. Y. Intelligence exchange system. 2,645,764, July 14.

Mead, Theodore E., Wilmette, Ill. Power-actuated apparatus for setting pins. 2,645,485, July 14.

Mechanical Products, Inc., assignee: *See*— Ingwersen, Richard C.

Medect, Adrian, trustee, assignee: *See*— Bolesky, John D.

Mellstrup, Emil E., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Drill jig. 2,645,140, July 14.

Menough, Paul S., Rocky River, Ohio. Fabricated metal container. 2,645,472, July 14.

Menz, Emil, and M. W. Schmidt née Loedel, Rothenburg ob der Tauber, Germany. Corset spring. 2,644,946, July 14.

Merck & Co., Inc., assignee: *See*— Lewis, Irving R., and McBean.

Meredith, Wilbur R., South Euclid, Ohio. Adjustable holder. 2,645,441, July 14.

Merrill, Albert H., Los Angeles, Calif. Educational device presenting pictorial and numerical problems. 2,645,038, July 14.

Merrill, Albert H., Los Angeles, Calif. Educational device teaching reading and arithmetic. 2,645,041, July 14.

Mesner, Max H.: *See*— Rajchman, Jan A., Mesner, and Rosenberg.

Meyer, George F., assignee: *See*— Fisher, Jesse.

Meyer, Philippe, assignee: *See*— Haenny, Rodolphe C.

Meyerhoefer, Carl E., assignor to Lewyt Corporation, Brooklyn, N. Y. Vacuum cleaner. 2,645,303, July 14.

Micek, Richard: *See*— Francescatti, Anton, and Micek.

Michelson, Adolph M.: *See*— Todd, Alexander R., and Michelson.

Micromax, Inc., assignee: *See*— Forbes, Duncan D.

Middleton, Donald R., assignee: *See*— Ilzby, William H.

Mildner, Raymond C., Shirley, Oxbey, and C. E. C. Lovelace, Blackheath, London, assignors to Telegraph Construction & Maintenance Company Limited, London, England. Manufacture of air spaced electric cables. 2,645,590, July 14.

Milholland, Murray E., assignee: *See*— Tucker, Jesse D.

Miller, Alfred A., Cleveland, Ohio. Liquid level indicating instrument. 2,645,125, July 14.

Miller, Howard L., Lansdale, Pa. Variable voltage supply system. 2,645,725, July 14.

Miller, Ira H., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Gluing apparatus with multiported applicator. 2,645,383, July 14.

Miller, Walter, and J. L. D. Morrison, Benton Harbor, Mich. Record changer head and tone arm assembly. 2,645,497, July 14.

Miller, Walter, and J. L. D. Morrison, Benton Harbor, Mich. Pickup arm having a rotatable cartridge with two needles. 2,645,498, July 14.

Milwaukee Gas Specialty Company, assignee: *See*—
Arvin, Martin J.
Thornbery, John H.
Witzel, Ernst.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Brown, Harry L.

Minneapolis-Moline Company, assignee: *See*—
Davies, Walter R.

Mintz, Jacob J., Somerville, and F. L. Muller, Westfield, N. J., assignors, by mesne assignments, to Klear-Vu Corporation, New York, N. Y. Garment bag having an extensible top support. 2,645,541, July 14.

Mitchell, Harold R., assignee: *See*—
Plough, Harold E.

Mitchell, William E., Peoria, Ill. Multiple sheet feeder. 2,645,479, July 14.

Mitchhart, Albert W., Tiffin, Ohio. Drill bit forging machine. 2,645,138, July 14.

Mitchko, Michael, Irvington, N. J. Bag sealing device. 2,645,514, July 14.

Moberg, Ivar O., Spray, N. C., assignor to Marshall Field and Company, Chicago, Ill. Pattern controlled variable beat-up and pile warp feed mechanisms. 2,645,250, July 14.

Mohns, David F., assignor to The Parker Pen Company, Janesville, Wis. Writing pen. 2,645,206, July 14.

Monahan, Joseph R., Myrtle Creek, Oreg. Card hail. 2,645,486, July 14.

Monnich, Carl E., assignor to Hydraulic Research & Mfg. Co., Inc., Burbank, Calif. Valve. 2,645,242, July 14.

Monroe Calculating Machine Company, assignee: *See*—
Fleming, Howard M.
Pfleger, Frederick W.

Monsanto Chemical Company, assignee: *See*—
Bonzagni, Francis A.

Moore, Robert L., and S. L. Pastor, assignors to Revere Camera Company, Chicago, Ill. Film driving means in sound projectors. 2,645,478, July 14.

Moore, Walter W., and C. A. McCormick, Connellsville, Pa. Clothesline hanger. 2,645,358, July 14.

Moreland, Stephen T., Indianapolis, Ind. Machine for injecting bacon slabs or the like. 2,645,171, July 14.

Moreton, Neal S., Staten Island, N. Y. Permanent magnet assembly. 2,645,745, July 14.

Morgan, J. R., Barryton, Mich. Fastener for hinged tail gates. 2,645,520, July 14.

Morin, Francis J., Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor of mixed nickel, manganese, and iron oxides. 2,645,700, July 14.

Morin, Louis H., Bronx, N. Y. Blunt nose double-acting scoop for separable fasteners. 2,644,995, July 14.

Moritz, Adrian J. L., Jensen Beach, Fla. Trolling line sinker. 2,645,053, July 14.

Morley, Frederick W. W., Aston-on-Trent, and W. H. Wilkinson, Old Normanton, assignors to Rolls-Royce Limited, Derby, England. Stator for multistage axial compressors. 2,645,413, July 14.

Morris Paper Mills, assignee: *See*—
Arneson, Edwin L.

Morris, Rupert C., and J. L. Van Winkle, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Sulfur-containing ethers of polyhydric alcohols and derivatives thereof. 2,645,659, July 14.

Morrison, James L. D.: *See*—
Miller, Walter, and Morrison.

Morrison, Wendell C.: *See*—
Brown, George H., Morrison, and Flosdorf.

Mortenson, Everett N., assignor to Swift & Company, Chicago, Ill. Recovery of fatty acids. 2,645,651, July 14.

Morton Salt Company, assignee: *See*—
Reeves, Howard F., Jr.
Robison, Clinton S.

Moser, Robert C., assignor to B. C. Skinner, J. B. Skinner, R. C. Moser, B. L. Skinner, and A. E. Byrne, copartners doing business as Skinner-Moser Manufacturers, Dunedin, Fla. Hydraulic tappet. 2,645,215, July 14.

Moses, Edmund O. and J. H. Scarborough, N. Y. Hair curler. 2,645,232, July 14.

Moses, Josephine H.: *See*—
Moses, Edmund Q. and J. H.

Moss, Edna B., executrix: *See*—
Moss, Raymond H.

Moss, Raymond H., deceased, Freeport, Ill.; E. B. Moss, executrix. Material disintegrating and distributing machine. 2,645,500, July 14.

Motorola, Inc., assignee: *See*—
Massman, Albert W.

Moubis, Gerard C. A. M.: *See*—
Klinkert, Leonard, Moubis, and Jonker.

Muggleton, Gerald D., Appleton, assignor to Combined Locks Paper Co., Combined Locks, Wis. Apparatus for coating paper. 2,645,201, July 14.

Müller, Ferdinand H., Roseland, and P. E. Johnson, Verona, assignors to Specialties Development Corporation, Belleville, N. J. Reinforced rubber structure and method of treating nylon yarn for use in making same. 2,645,266, July 14.

Muller, Frederick L.: *See*—
Mintz, Jacob J., and Muller.

Munch, Louis E., Reisterstown, Md., assignor to J. G. Saffell. Condiment drier. 2,645,542, July 14.

Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Adjustable guide for shear knives. 2,645,287, July 14.

Myers, Harold C., and A. O. Pukkila, Woodbury, and T. A. Petry, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incoporated. Separating wax from wax-oil mixtures. 2,645,597, July 14.

Myers, Harold C., and A. O. Pukkila, Woodbury, A. F. Houser, Brooklawn, and W. H. King, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Separating wax from wax-oil mixtures. 2,645,598, July 14.

Myers, Harold C., and A. O. Pukkila, Woodbury, and J. I. Barnes, Mickleton, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Dewaxing oils containing wax. 2,645,600, July 14.

Myers, William H., Fort Wayne, Ind., assignor to Farnsworth Research Corporation. Phonograph spindle aperture reducer. 2,645,499, July 14.

Napolitan, Loretta, administratrix: *See*—
Napolitan, Louis.

Napolitan, Louis, deceased, New York, N. Y.; Loretta Napolitan, administratrix. Mannikin's head hair structure. 2,645,037, July 14.

National Lead Company, assignee: *See*—
Granade, Fred C., and Ruby.

National Malleable and Steel Castings Company, assignee: *See*—
Spence, Hubert L.

National Research Council, assignee: *See*—
Stevinson, Harry T.

National Research Development Corporation, assignee: *See*—
Newman, Edward A., Davies, and Braybrook.
Todd, Alexander R., and Michelson.

Naud, Clovis, Deschambault Quebec, Canada. Rail fastening means. 2,645,427, July 14.

Neal, Benjamin T., Columbus, Ohio. Transmission mechanism. 2,645,130, July 14.

Neff, Gene M., assignor to John Oster Manufacturing Company, Racine, Wis. Multiposition switch. 2,645,685, July 14.

Nehrbas, Howard G.: *See*—
Henkel, Erich, and Nehrbas.

Nelson, Alfred H., Grove City, Minn. Post driving apparatus. 2,645,453, July 14.

Nelson, Donald W.: *See*—
Willson, Abner R., and Nelson.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Fascia board and end fitting therefor. 2,645,281, July 14.

Nelson, John V., Elmhurst, assignor to Krag Steel Products, Inc., Chicago Ill. Recording and translating device. 2,645,495, July 14.

Nelson, Paul E., Geneva, Ill. Hat holder for hat boxes. 2,645,333, July 14.

Nemir, Clarence T., Washington, D. C., assignor to The Kelling Nut Co., Chicago, Ill. Photoelectric inspecting and sorting apparatus. 2,645,343, July 14.

Nesbet, George W., assignee: *See*—
Jones, Frank J.

Netschert, Franz, Glendale, assignor to Technical Glass Company, Inc., Los Angeles, Calif. Dead latching door lock. 2,645,512, July 14.

Neumann, Bernard, The Hague, Netherlands. Skirt valve system for hydraulic master cylinders. 2,645,087, July 14.

Newcomb, Philip P., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Deicer for jet engines. 2,645,080, July 14.

Newman, Edward A., Teddington, D. W. Davies, Southsea, and R. F. Braybrook, South Kensington, London, assignors to National Research Development Corporation, London England. Electrical signal distribution system. 2,645,714, July 14.

Newton, Lawrence W., South Charleston, W. Va., assignor to Union Carbide and Carbon Corporation. Preparation of alkyl substituted aromatic ketones. 2,645,663, July 14.

New York Air Brake Company, The, assignee: *See*—
Pickert, Mark.

Niagara Machine & Tool Works, assignee: *See*—
Munschauer, Frederick E.

Nicolle, Charles, Gentilly, France. Machine for packing tablets and similar articles. 2,645,070, July 14.

Nielsen, A. C., Company, assignee: *See*—
Bateman, George H., and Krahulec.

Niles-Bement-Pond Company, assignee: *See*—
Feeney, William H., and Smithson.





Nimmo, Robert H., assignor to Koppers Company, Inc., Pittsburgh, Pa. Manufacture of diphenylamine. 2,645,662, July 14.

Niro Corporation, assignee: *See*—
Nyrop, Johan E.

Nitzsche, Siegfried, Burghausen, Upper Bavaria, assignor to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Bavaria, Germany. Accelerated condensing organopolysiloxane compositions. 2,645,629, July 14.

Nordlander, Birger W., and R. E. Burnett, Schenectady, N. Y., assignor to General Electric Company. Thixotropic coating composition. 2,645,626, July 14.

Nordstrand, Sven G., assignor to Ingeniorsfirman Fliesberg Aktiebolag, Stockholm, Sweden. Flotation apparatus. 2,645,350, July 14.

Norman, Harry H., assignor to Zig Zag Spring Co., Los Angeles, Calif. Spring forming machine. 2,645,252, July 14.

Nourse, Ira C., assignor of one-half to S. Johnson, Mineral Wells, Tex. Auxiliary jack for oil wells. 2,645,454, July 14.

Nyrop, Johan E., Hellerup near Copenhagen, Denmark, assignor, by mesne assignments, to Niro Corporation, New York, N. Y. Liquid atomizer. 2,645,525, July 14.

Nystrom, Karl T.: *See*—
Thompson, Alfred L., Nystrom, McQuiddy, and Stanley.

Oertel, Carl H., Baltimore, Md. Saliva bowl guard. 2,644,956, July 14.

Ofenstein, Robert C., Highland Park, and S. L. Willis, assignors to The Standard Tube Company, Detroit, Mich. Deburring and swaging mandrel for interior wall of tubing. 2,645,164, July 14.

Office National d'Etudes et de Recherches Aeronautiques, assignee: *See*—
Doussain, Robert, Bousson, and Perrier.

Officine Viberti Societa per Azioni, assignee: *See*—
Reverberi, Mario.

Ogle, Hugh M., and D. E. Garr, Schenectady, and M. A. Edwards, Scotia, N. Y., assignors to General Electric Company, Apparatus for regulating propulsion power plants. 2,645,293, July 14.

O'Gorman, William F., assignor to The Tel-A-Tale Motion Sign Corp., New York, N. Y. Flashing illuminated sign. 2,645,047, July 14.

Oldham, Wilfred J., and M. M. Wirth, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company, Limited, London, England. Production of surface active sulfates. 2,645,656, July 14.

Olsen, Homer N., Ogden, Utah. Key case and key therefor. 2,645,113, July 14.

Olson, Harry F., Princeton, and J. Preston, Metedeconk, N. J., assignors to Radio Corporation of America. Noise discriminating system. 2,645,684, July 14.

Olson, Peter, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Clock setting and regulating mechanism. 2,645,077, July 14.

Olson, Walter J.: *See*—
Kreitchman, Morton A., and Olson.

O'Neil, William F., assignor to The General Tire and Rubber Company, Akron, Ohio. Pneumatic tire and making same. 2,645,265, July 14.

Osborn, Ralph C., Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich. Conversion arrangement for suction cleaners. 2,644,076, July 14.

Oster, John, Manufacturing Company, assignee: *See*—
Neff, Gene M.

Otis, Allan L., White Bird, Idaho. Dehorning device. 2,645,011, July 14.

Otto, Carl, Manhasset, N. Y. Ammonium sulfate production. 2,645,559, July 14.

Otto, Carl, Manhasset, N. Y. Production of sulfate of ammonia. 2,645,560, July 14.

Overhead Door Corporation, assignee: *See*—
Rosenbaum, William B.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Waggoner, Jack H.

Owens-Illinois Glass Company, assignee: *See*—
Labino, Dominick, and Politsch.
Miller, Ira H.

Pacific Can Company, assignee: *See*—
Renard, Roland E.

Packard Motor Car Company, assignee: *See*—
Vincent, Jesse G.

Painton & Company, Limited, assignee: *See*—
Kerridge, Frank E., Belham, and Pearce.

Palmer, Cecil H., Phoenix, Ariz. Ditch forming and lining implement. 2,645,091, July 14.

Parish, Willard E., assignor to Crouse-Hinds Company, Syracuse, N. Y. Interlock switch and receptacle. 2,645,087, July 14.

Parker Pen Company, The, assignee: *See*—
Mohns, David F.
Randolph, Robert W.

Parkes, Ralph C., Philadelphia, Pa. Door mounting. 2,644,989, July 14.

Parks, Vergil R., Sierra Madre, Calif. Shortening measure. 2,645,127, July 14.

Parsons, John R., Maumee, Ohio. Starter motor-driven hydraulic pump. 2,645,183, July 14.

Pastor, Sheldon L.: *See*—
Moore, Robert L., and Pastor.

Paterson, William J., Newton Highlands, Mass., assignor to Lever Brothers Company, New York, N. Y. Nickel-alumina-silica catalysts and their preparation. 2,645,620, July 14.

Pavlovic, Joseph, Minneapolis, Minn. Abrading tool. 2,645,064, July 14.

Payne, Frank E., Glencoe, assignor to Crane Packing Company, Chicago, Ill. Rotary mechanical seal. 2,645,508, July 14.

Payne, John W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Separating wax from wax-oil mixtures. 2,645,599, July 14.

Pazandak, Louis A., Minneapolis, Minn., assignor, by mesne assignments, to The Buckeye Cotton Oil Company, Cincinnati, Ohio. Seed delinter. 2,644,986, July 14.

Peach, Francis G.: *See*—
Bate, Stanley C., Peach, and Rogerson.

Pearce, Frank G., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Recovery and purification of oil soluble oxygenated compounds. 2,645,655, July 14.

Pearce, Graham: *See*—
Kerridge, Frank E., Belham, and Pearce.

Pechiney Compagnie de Produits Chimiques et Electrometallurgiques, assignee: *See*—
Stanko, Stefan.

Peerless Sewing Machine Corporation, assignee: *See*—
Chinnici, Michael.

Pelletier, Eugene, Detroit, Mich. Paint bucket holder. 2,645,443, July 14.

Pelton Water Wheel Company, The, assignee: *See*—
Wheeler, Byron E.

Penjay Manufacturing Company, assignee: *See*—
Kandle, Louis A.

Perrier, Louis: *See*—
Doussain, Robert, Bousson, and Perrier.

Perry, Bennett B., Quincy, Ill. Ink fountain for printing presses. 2,645,176, July 14.

Petersen, Paul, and A. J. Markuc, Milwaukee, Wis. Unit electric heater. 2,645,704, July 14.

Petit, Laurence A., Chicago, Ill. Mounting means for manifold machine carbon paper. 2,645,325, July 14.

Petry, Theodor A.: *See*—
Myers, Harold C., Pukkila, and Petry.

Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Game chip holder. 2,645,352, July 14.

Pfleger, Frederick W., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Carriage position control means for accumulation of products around a fixed decimal point. 2,645,422, July 14.

Pfleger, Frederick W., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Multiplication control mechanism for calculating machines. 2,645,423, July 14.

Phillips Petroleum Company, assignee: *See*—
Axe, William N.
Ayers, Arnold L., and Scott.
Burgoyne, Edward E.
Burgoyne, Edward E., and Condon.
Clark, Alfred.
Crouch, Willie W., and Cotton.
Frey, Frederick E.
Hepp, Harold J.
Schulze, Walter A.

Platt, Donald R., and F. B. Porterfield, Endicott, and C. D. Hicks, Vestal, assignors to International Business Machines Corporation, New York, N. Y. Machine for verifying and checking perforated records. 2,645,122, July 14.

Pickering, George D., Dorchester, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener-attaching machine. 2,645,374, July 14.

Pickert, Mark, Watertown, N. Y., assignor to The New York Air Brake Company. Independent release portion for air brake control valves. 2,645,530, July 14.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Hydrogen transfer process. 2,645,669, July 14.

Pines, Herman, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Production of polyalkylated aromatic hydrocarbons. 2,645,670, July 14.

Pioneer Development Co., assignee: *See*—
Wood, Volimer V., and Bigué.

Pitinsky, Morris, Eatontown, N. J. Low voltage neon shorts tester. 2,645,754, July 14.

Ploeger, Clyde E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Automatic icemaking machine. 2,645,095, July 14.

Plossl, George W., West Springfield, and W. B. Leety, Longmeadow, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Bubble cap fastening means. 2,645,469, July 14.

Plough, Harold E., Laporte, assignor of one-half to H. R. Mitchell, Bemidji, Minn. Combined spout and strainer. 2,645,382, July 14.

Politsch, Verney G.: *See*—
Labino, Dominick, and Politsch.

Pollak, Frederick J., Troon, Scotland, assignor to Imperial Chemical Industries Limited. Thickened aqueous detergent solutions. 2,645,615, July 14.

Ponsar, Yves, assignor to Etablissements Neyrpic, Grenoble, France. Automatic gate. 2,645,089, July 14.

Pool, Frank, Jr., Palo Alto, Calif. Axial indicator. 2,645,024, July 14.

Popp, Frederick G.: *See*—
McWhirter, Eric M. S., and Popp.

Porterfield, Fred B.: *See*—
Platt, Donald R., Porterfield, and Hicks.

Posch, Rudolph A., assignor to W. F. Teague, Kansas City, Mo. Thermal tooth testing instrument. 2,645,097, July 14.

Poulit, Robert, Lyon, assignor to Societe Industrielle Generale de Mecanique Appliquee (S. I. G. M. A.), Villeurbanne, France. Structure for conveying a fluid at high temperature. 2,645,435, July 14.

Power Equipment Company, assignee: *See*—
Bixby, William H.

Praeg, Delbert H., Plainfield, N. J., assignor to Sun Chemical Corporation, Long Island City, N. Y. Printing inks. 2,645,622, July 14.

Pramuk, Edward M. B., Whiting, and F. H. MacLaren, Munster, Ind., assignors to Standard Oil Company, Chicago, Ill. Fractionation of oleiferous materials. 2,645,652, July 14.

Prasse, Herbert F., Gates Mills, assignor to Thompson Products, Inc., Cleveland, Ohio. Flexible piston ring. 2,645,536, July 14.

Preston, John: *See*—
Olson, Harry F., and Preston.

Pritchard, Dalton H., Princeton, N. J., assignor to Radio Corporation of America. Gating trigger circuit. 2,645,713, July 14.

Productive Inventions, Inc., assignee: *See*—
Anderson, John W.

Pukkila, Arnold O.: *See*—
Myers, Harold C., Pukkila, and Barnes.
Myers, Harold C., Pukkila, and Petry.
Myers, Harold C., Pukkila, Houser, and King.

Pulli, John L.: *See*—
Walker, Harold N., and Pulli.

Pulsifer, Frank: *See*—
Benedict, Walter L., Goodnow, and Pulsifer.

Pyle-National Company, The, assignee: *See*—
Heehler, Arthur C.
McDowell, Thomas E.
McDowell, Thomas E., and Heehler.

Pyle, Ross S.: *See*—
May, Richard W., and Pyle.

Radio Corporation of America, assignee: *See*—
Anderson, Leslie J., and Duncan.
Brown, George H., Morrison, and Flosdorf.
Keizer, Eugene O.
Olson, Harry F., and Preston.
Pritchard, Dalton H.
Rajchman, Jan A.
Rajchman, Jan A., Mesner, and Rosenberg.
Rajchman, Jan A., and Stemme.
Ulrich, Robert E.
Wendzel, Frank.

Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Storage tube with electron multiplying and selecting electrodes. 2,645,734, July 14.

Rajchman, Jan A., and M. H. Mesner, Princeton, and M. Rosenberg, Trenton, N. J., assignors to Radio Corporation of America. Reading circuit for storage tubes. 2,645,712, July 14.

Rajchman, Jan A., Princeton, N. J., and E. Stemme, Stockholm, Sweden, assignors to Radio Corporation of America. Means for indicating condition of memory element. 2,645,724, July 14.

Rand, Anthony, Des Moines, Iowa. Flush valve lift rod guide. 2,644,951, July 14.

Randall, David I.: *See*—
Renfred, Edgar E., and Randall.

Randall, David I., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Chloromethylation of aryiaminopolycyclic quinones. 2,645,645, July 14.

Randall, David I., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Chlormethyl derivatives of dibenzanthronyl, dibenzanthrone and isodibenzanthrone compounds. 2,645,646, July 14.

Randolph, Robert W., Milton, assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 2,645,205, July 14.

Raper, William G., Wetumpka, Ala. Trousers presser. 2,645,389, July 14.

Raymond, Clifford H., Iron River, Mich. Truck leader. 2,645,360, July 14.

Raymond Concrete Pile Company, assignee: *See*—
Kinneman, William P., and Riker.

Reade, Ralph B., Rye, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Controlling susceptance of a post type obstacle. 2,645,679, July 14.

Rector, Nelson H., Atlanta, Ga. Rolling scaffold. 2,645,531, July 14.

Redden, Thomas K.: *See*—
Herres, Schuyler A., and Redden.

Reeves, Alec H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Pulse distributor, including electric discharge devices. 2,645,680, July 14.

Reeves, Alec H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric discharge device. 2,645,742, July 14.

Reeves, Howard F., Jr., Chattanooga, Tenn., assignor to Morton Salt Company, Chicago, Ill. Preparation of alkyi esters of aconitic acid. 2,645,658, July 14.

Rehels Company, Inc., assignee: *See*—
Govett, Thomas, and Almquist.

Rehfeld, George W., Manhattan, Kans. Connector for jetty units. 2,645,088, July 14.

Reichhold Chemicals, Inc., assignee: *See*—
Hermann, Friedrich J.

Reiner, Robert, Inc., assignee: *See*—
Lambach, Fritz.

Reliance Steel Products Company, assignee: *See*—
Braun, Ottwin L.

Renard, Roland E., Los Gatos, assignor to Pacific Can Company, San Francisco, Calif. Interrupted can end feed mechanism. 2,645,306, July 14.

Renfrew, Edgar E.: *See*—
Randall, David I., and Renfrew.

Renfrew, Edgar E., Phillipsburg, N. J., and D. I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Soluble onium salts of halogenmethylated arylaminopolycyclic quinones. 2,645,641, July 14.

Reser, Alva B., Long Beach, Calif. Baby bootee stretcher. 2,644,969, July 14.

Reverberi, Mario, assignor to Officine Viberti Societa per Azioni, Turin, Italy. Articulated vehicle body connection. 2,645,517, July 14.

Revere Camera Company, assignee: *See*—
Moore, Robert L., and Pastor.

Richardson, Earl R.: *See*—
Curley, Robert S., and Richardson.

Richmond, James H., Rochester, N. Y., R. M. Boehm, and H. R. Hunt, assignors to Masonite Corporation, Laurel, Miss. Extraction of lignin. 2,645,633, July 14.

Richter, Charles R., Schenectady, N. Y. Welding and cutting torch. 2,645,277, July 14.

Richter, Johan C. F. C., assignor to Aktiebolaget Kamyr, Karlstad, Sweden. Pulp storage tower and emptying same. 2,645,378, July 14.

Ridnour, Robert H., Sioux City, Iowa. Ice cube vending machine. 2,645,092, July 14.

Riede, Peter M., Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Valve for gas pressure cylinders. 2,645,241, July 14.

Riker, Warren N.: *See*—
Kinneman, William P., and Riker.

Robbins, Azor D., Hempstead, N. Y. Collimating optical sight. 2,645,150, July 14.

Roberts, Frank R., Anaheim, Calif. Sizing apparatus. 2,645,349, July 14.

Roberts, Walter V., Princeton, N. J. Continuous wave radar system. 2,645,769, July 14.

Robertson, Nell F., Tacoma, Wash. Door lock. 2,645,516, July 14.

Robin, Leo, Ville-d'Avray, France. Free wheel mechanism. 2,645,310, July 14.

Robins, Irving, assignor to Add-A-Handle Carton Company, Chicago, Ill. Box. 2,645,406, July 14.

Robison, Clinton S., assignor to Morton Salt Company, Chicago, Ill. Antioxidant salt and preparing the same. 2,645,581, July 14.

Roche, Clifton R., Los Angeles, Calif. Automatic transmission. 2,645,137, July 14.

Rockwell Tools, Inc., assignee: *See*—
Hull, Henry E.

Rodder, William, assignor to The Aetna-Standard Engineering Company, Youngstown, Ohio. Flying hot saw. 2,645,001, July 14.

Roe, A. V., Canada Limited, assignee: *See*—
McDonald, William M.

Rogant, Humbert R., Willoughby, Ohio. Line holder. 2,644,993, July 14.

Rogerson, Walter A.: *See*—
Bate, Stanley C., Peach, and Rogerson.

Rolls-Royce Limited, assignee: *See*—
Morley, Frederick W. W., and Wilkinson.

Roos, Delmar G., assignor, by mesne assignments, to Willys Motors, Inc., Toledo, Ohio. Means for lubricating bearings. 2,645,305, July 14.

Rosbro Plastics Corporation, assignee: *See*—
Brown, Bertram M.

Rose, Alfred G., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Feeding of labels, sheets, and the like from a stack. 2,645,373, July 14.

Rose Brothers (Gainsborough) Limited, assignee: *See*—
Rose, Alfred G.

Rosenbaum, William B., assignor to Overhead Door Corporation, Hartford City, Ind. Sign or display device for upwardly acting doors. 2,645,039, July 14.

Rosenberg, Milton: *See*—
Rajchman, Jan A., Mesner, and Rosenberg.

Rosenberg, Philip, New York, assignor to Universal Steel Equipment Corporation, Long Island City, N. Y. Wedge nut and structure employing wedge nuts. 2,645,264, July 14.

Rossman, Peter F., Morristown, N. J. Magnetic fuel feeding apparatus. 2,645,279, July 14.

Roty, Jean: *See*—
Banger, Louis, and Roty.

Rowe, Arthur E., Cleveland, Ohio. Loading dock construction. 2,644,971, July 14.

Rowe, Fred W., Seattle, Wash. Removable drum fishing winch. 2,645,455, July 14.





Rowe, George E., Wethersfield, assignor to Emhart Manufacturing Company, Hartford, Conn. Apparatus for and method of forming paste mold glassware. 2,645,059, July 14.

Roxburgh, Albert, Willesden, London, and A. Leigh, Kenton, Harrow, England, assignors to General Electric Company. Electric circuit breaker. 2,645,696, July 14.

Royal Patent Corporation, assignee: *See*—
Durant, Lyndon A.

Rozaffy, Didier, Paris, France. Article of furniture. 2,645,545, July 14.

Ruby, George H. A.: *See*—
Granade, Fred C., and Ruby.

Ruczynski, Narcy B., Grand Rapids, Mich. Helicopter toy. 2,645,055, July 14.

Rudel, Harry W., Roselle Park, and J. I. Wasson, Union, N. J., assignors to Standard Oil Development Company. Thiophosphate esters. 2,645,657, July 14.

Rumble, Roy W., Pretoria, Transvaal, Union of South Africa. Wailing members for sectionalized structure providing a common rectilinear surface. 2,644,996, July 14.

Rupp, Walter H., Mountainside, N. J., assignor to Standard Oil Development Company. Leaning bubble tower. 2,645,467, July 14.

Rutledge, Harry E., Pittsburgh, Pa. Pole hinge. 2,645,511, July 14.

Rutledge, Harry E., Pittsburgh, Pa. Floodlight having sealed beam lamps focused to form a specific light pattern. 2,645,705, July 14.

S & S Industries, assignee: *See*—
Schwartz, Herbert L.

Sacklyn, Vincent N.: *See*—
Beacom, Edward A., Sacklyn, and Talamanco.

Saco-Lowell Shops, assignee: *See*—
Curley, Robert S., and Richardson.

Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—
Dodds, Robert B.

Saffell, James G., assignee: *See*—
Munch, Louis E.

St. Regis Paper Company, assignee: *See*—
Zonner, William A.

Sanchez, Ygnacio L.: *See*—
McCallick, William P., and Sanchez.

Sands, Hilliard J.: *See*—
Blanke, Nathan E., and Sands.

Sanford, Hugh W., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Door latch tripping mechanism. 2,645,368, July 14.

Sanford Investment Company, The, assignee: *See*—
Sanford, Hugh W.

Sansone, Carlo, Genoa, Italy. Predetermined counter value setting device. 2,645,426, July 14.

Santino, Louis, Brooklyn, N. Y. Sound generating device. 2,645,768, July 14.

Sarto, Jorma O., Walled Lake, assignor to Chrysler Corporation, Highland Park, Mich. Surface gap igniter plug for gas turbines. 2,645,082, July 14.

Sasse, Louis, East Chicago, Ind. Trimming board with illuminated scale. 2,645,707, July 14.

Schaadt, Francis S., San Francisco, Calif. Hydraulic emergency brake for pneumatic brake systems. 2,645,313, July 14.

Schaefer, Carl A., Whitefish Bay, Wis., assignor to Square D Company, Detroit, Mich. Timer. 2,645,285, July 14.

Scheemaeker, Emile, Woonsocket, R. I. Cream separator and cap. 2,645,349, July 14.

Schenk, Tamis C., Richmond Hill, assignor, by mesne assignments, to Fruit Products Corporation, New York, N. Y. Bagging machine. 2,645,395, July 14.

Scherer, R. P., Corporation, assignee: *See*—
Scherer, Robert P.

Scherer, Robert P., assignor to R. P. Scherer Corporation, Detroit, Mich. Jacket for jet injection ampoules. 2,645,338, July 14.

Schiller, Walter, Forestville, Calif. Fish lure. 2,645,052, July 14.

Schmidt, Marie W.: *See*—
Menz, Emil, and Schmidt.

Schneider, Robert A., Bridgeport, Conn. Removing the casings of link sausages and structurally like products. 2,644,982, July 14.

Schnellpressenfabrik A.-G. Heidelberg, assignee: *See*—
Buttner, Artur.

Schubert, Max: *See*—
Zerweck, Werner, and Schubert.

Schultz, Paul E., Wichita, Kans. Producing a fluffy chocolate confection. 2,645,580, July 14.

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of aromatic hydrocarbons. 2,645,672, July 14.

Schwab, Arthur W.: *See*—
Evans, Cyril D., Cowan, and Schwab.

Schwamberger, Emil, assignor to Cassella Farbwerke Mainkur Aktiengesellschaft, Frankfurt am Main Fechenheim, Germany. Sulfurized compounds of the dianthrone ethylene series and making the same. 2,645,634, July 14.

Schwartz, Herbert L., New York, assignor to S & S Industries, Bronx, N. Y. Brassière. 2,644,947, July 14.

Schweitzer, Howard V., assignee: *See*—
Verba, Richard J.

Schweitzer, Howard V., Shaker Heights, Ohio. Dishware lining machine. 2,645,200, July 14.

Schwenzfeier, Otto, McCook, Nebr., assignor to J. T. Clark, Fort Morgan, Colo. Spark plug adjusting pliers. 2,645,142, July 14.

Scott, Arthur K.: *See*—
Linn, Norman F., Ernst, and Scott.

Scott, Benjamin B., G. F. Greene, and F. E. Valentine, Schenectady, N. Y., assignors to General Electric Company. Winding machine. 2,645,429, July 14.

Scott, Cleveland R.: *See*—
Ayers, Arnold L., and Scott.

Scott, Lyle B., South Gate, assignor to Byron Jackson Co., Vernon, Calif. Swivel ball adapter weight sensing device. 2,645,120, July 14.

Scott, Lyle B., South Gate, assignor to Byron Jackson Co., Vernon, Calif. Weight sensing device. 2,645,121, July 14.

Seafood Equipment Corporation, assignee: *See*—
McKinstry, Alston R.

Secrest, Levi D., Santa Ana, Calif. Supplemental thread tension for sewing machines. 2,645,196, July 14.

Segal, Arthur B., Springfield, Ill., assignor, by mesne assignments, to General Bronze Corporation. Mixing and dispensing valve. 2,645,246, July 14.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Simplified trigger for loose-leaf binders. 2,645,227, July 14.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Posting stand. 2,645,538, July 14.

Selvia, Luther, assignee: *See*—
Jones, Frank J.

Senesky, John S., Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Gas pressure regulator. 2,645,062, July 14.

Senesky, John S., Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Flowmeter for gases. 2,645,124, July 14.

Sens, William H., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Locking device for split-compressor type turbopower plants. 2,645,412, July 14.

Servel, Inc., assignee: *See*—
Hadley, Orval P.
Ploeger, Clyde E.

Shell Development Company, assignee: *See*—
Adelson, David E., and Thorpe.
Morris, Rupert C., and Van Winkle.
Thomas, Samuel B., and Evans.

Shudde, Alfred J., Houston, Tex. Bed commode. 2,644,957, July 14.

Shuler, Ellis W., Jr.: *See*—
Glanville, Charles R., Dunlap, and Shuler.

Shwayder Bros., Inc., assignee: *See*—
Axtell, Willard G.
Walton, Harold F.

Silverstein, Martin S., Camden, N. J. Inflammable composition containing red phosphorus. 2,645,571, July 14.

Simon, Alfonso M., Jr., New York, N. Y., and A. P. Gluck, Paterson, N. J.: said Gluck assignor to said Simon. Vending apparatus. 2,645,544, July 14.

Simpson, Herbert, Corporation, assignee: *See*—
McIlvaine, Robert L.

Singer Manufacturing Company, The, assignee: *See*—
McCann, Michael.

Skinner, H. C., assignee: *See*—
Moser, Robert C.

Skinner, B. L., assignee: *See*—
Moser, Robert C.

Skinner, Jacques B., assignee: *See*—
Moser, Robert C.

Skinner-Moser Manufacturers, assignee: *See*—
Moser, Robert C.

Sloan, Virginia G., Springfield, Ill. Adjustable supporting device for sanitary napkins and the like. 2,645,225, July 14.

Smith, Joseph E., Tampa, Fla. Belt guide. 2,644,994, July 14.

Smith, Orson P., Seattle, Wash. Attachment for woodworking shapers. 2,645,256, July 14.

Smith, Richard B., Hickory, N. C. Blade sharpening device. 2,645,063, July 14.

Smith, Samuel R., Portland, Oreg. Springboard construction. 2,645,483, July 14.

Smith, Sidney H.: *See*—
Horn, Charles H., and Smith.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Combined washing machine and centrifugal extractor. 2,645,107, July 14.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Combined washing machine and centrifugal finid extractor. 2,645,108, July 14.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Sediment collecting means for washing machines and the like. 2,645,109, July 14.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Transmission drive mechanism. 2,645,318, July 14.

Smith, Wallace D., Melbourne, Fla. Mortise chiseling templet. 2,645,029, July 14.

Smith, William I., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Sectional metallic awning. 2,644,990, July 14.

Smithson, Gordon W.: *See*—
Feeney, William H., and Smithson.

Smoot, John H.: *See*—
Lawshe, Errol R., and Smoot.

Societe Anonyme dite; Centre d'Etudes M. B. A., assignee: *See*—
Gourdon, Robert L.

Societe de la Pile Leclanche, assignee: *See*—
Emériat, Raymond.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Charpentier, Paul.

Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., assignee: *See*—
Huber, Robert.

Société dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, assignee: *See*—
Bauger, Louis, and Boty.

Societe Industrielle Generale de Mecanique Appliquee (S. I. G. M. A.), assignee: *See*—
Poulit, Robert.

Society Electro-Mecanique de l'Aveyron, assignee: *See*—
Bessière, Pierre E.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Brown, Clayton W., and Keyser.
Cranmer, John M.
Godsey, Jack M.
Green, Phillip M.
Lang, William H., and Gutzeit.
Myers, Harold C., Pukkila, and Barnes.
Myers, Harold C., Pukkila, Houser, and King.
Myers, Harold C., Pukkila, and Petry.
Payne, John W.
Sturgis, Robert P.

Sogn, Allen W., Buffalo, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Reduction of aromatic nitrogen compounds. 2,645,636, July 14.

Solari, Alfredo, Buenos Aires, Argentina. Swivel joint for multiconductor electric cables. 2,645,759, July 14.

South Bend Lathe Works, assignee: *See*—
Frushour, Russel E.

Specialties Development Corporation, assignee: *See*—
Möller, Ferdinand H., and Johnson.

Speed, William C., Riverside, and J. J. Dwyer, Stamford, Conn., assignors to Audio Devices, Inc., New York, N. Y. Production of magnetic sound tape. 2,645,270, July 14.

Speler, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Phenylol silane-formaldehyde type resin. 2,645,610, July 14.

Spence, Hubert L., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 2,645,362, July 14.

Spiro, Murray, Brooklyn, N. Y. Printing machine. 2,645,179, July 14.

Spohr, Carl W., assignor to The Curtiss Candy Company, Chicago, Ill. Apparatus for filling bags. 2,645,396, July 14.

Sports-Styles, Inc., assignee: *See*—
Greenberg, Harry D., and Sutton.

Sprecker, Alfred L., Freeport, assignor to International Business Machines Corporation, New York, N. Y. Time recording machine. 2,645,551, July 14.

Square D Company, assignee: *See*—
Schaefer, Carl A.

Staaf, Werner I., Rennerdale, Pa. Screw stud or fastener and assembly utilizing same. 2,645,317, July 14.

Stabile, Peter, Brooklyn, N. Y. Power-driven automobile lift. 2,645,307, July 14.

Staedtler, J. S., Mars-Bleistiftfabrik, assignee: *See*—
Loy, Georg.

Staege, Stephen A., Hamilton, and A. G. Gibson, Middletown, assignors to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,645,346, July 14.

Stafford, David G., Vancouver Island, British Columbia, Canada. Signal horn. 2,645,198, July 14.

Stahl, Oscar C.: *See*—
Davis, Elbert, and Stahl.

Standard Mirror Company, assignee: *See*—
Bertell, Paul, and Weingartner.

Standard Oil Company, assignee: *See*—
Mattano, Leonard A.
Pramuk, Edward M. B., and MacLaren.
Tom, Theodore B., and Krause.
Voorhees, Vanderveer.

Standard Oil Development Company, assignee: *See*—
Drout, William M., Jr., and Emerson.
Leas, William J.
Linn, Norman F., Ernst, and Scott.
Rndel, Harry W., and Wasson.
Rupp, Walter H.
Stearns, Reid F.
Wood, Robert S.

Standard Packaging Corporation, assignee: *See*—
Bozek, John S., and Weidanz.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Swint, Franklin H.
Thompson, Alfred L., Nystrom, McQuiddy, and Stanley.
Zeidler, Kurt E.

Standard Tube Company, The, assignee: *See*—
Ofenstein, Robert C., and Willis.

Stanfield, James R., Birmingham, and T. K. Garrett, Rubery, near Birmingham, assignors to The Austin Motor Company Limited, Birmingham, England. Road vehicle body of chassisless type. 2,645,519, July 14.

Stanko, Stefan, Saint-Jean de Maurienne, France, assignor to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Preparing carbon base paste. 2,645,583, July 14.

Stanley, Richard B.: *See*—
Thompson, Alfred L., Nystrom, McQuiddy, and Stanley.

Stanolind Oil and Gas Company, assignee: *See*—
Pearce, Frank G.

Staudenmeier, Georg: *See*—
Blessing, Albert, Staudenmeier, Tilch, and Kaiser.

Stauffer Chemical Company, assignee: *See*—
Campbell, Ramsey G.

Stearns, Reid F., Elizabeth, N. J., assignor to Standard Oil Development Company. Method and apparatus for continuous flow mixing. 2,645,463, July 14.

Stegman, Norman A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure braking asytem. 2,645,307, July 14.

Stein, Herbert N.: *See*—
Gottsegen, Marten, and Stein.

Stemme, Erik: *See*—
Rajchman, Jan A., and Stemme.

Stenger, Richard C., assignor to Sutherland Paper Company, Kalamazoo, Mich. Carton for baked goods and other easily broken products. 2,645,337, July 14.

Stephenson, Noah L., assignor of forty-five percent to J. B. Hughey, Logan, W. Va. Safety control system for mines. 2,645,330, July 14.

Sterrett, Vance C., Loxansport, Ind. Cylinder construction. 2,645,513, July 14.

Stettler, Walther, Reinach, Switzerland, and C. Hummel, Hesingue, France. Meat-skinning machine. 2,645,263, July 14.

Stevens, Clifford E., Glen Ridge, assignor to Stevens Products, Inc., East Orange, N. J. Apparatus for the automatic forming of cast fibrous pulp cone blanks for cone speaker diaphragms. 2,645,105, July 14.

Stevens Products Inc., assignee: *See*—
Stevens, Clifford E.

Stevinson, Harry T., Arnprior, Ontario, assignor to National Research Council, Ottawa, Ontario, Canada. Trace identifier for optical oscillographs. 2,645,552, July 14.

Stillman, Edwin A., New York, N. Y. Portable ash receiver for personal use. 2,645,229, July 14.

Stockard, John M., Washington, D. C. Torpedo exploder. 2,645,180, July 14.

Stofleth, Alton A., Evansville, Ind. Fishing tackle with retrieving means combined therewith. 2,645,051, July 14.

Stookey, Kenneth W., assignor to The Gas Machinery Company, Cleveland, Ohio. High-temperatnre reactor. 2,645,566, July 14.

Story, William E., Jr.: *See*—
Walker, Fred L., Jr., and Story.

Strezynski, George J., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal bowl. 2,645,415, July 14.

Stringe, Jack W., Oak Park, Ill. Desk. 2,645,540, July 14.

Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Moccasin. 2,645,042, July 14.

Stuart, Robert J., and A. D. Gunderson, assignors to George Gorton Machine Co., Racine, Wis. Apparatus for the production of integral blade turbine wheels and the like units. 2,645,161, July 14.

Sturgis, Robert P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Pipe flange connection. 2,645,506, July 14.

Sullivan, Philip J., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Bubble cap assembly. 2,645,488, July 14.

Summerour, Marion A.: *See*—
Watts, John J., and Summerour.

Sun Chemical Corporation, assignee: *See*—
Praeg, Delbert H.

Superior Sugar Extraction, Inc., assignee: *See*—
Langen, Engen.

Sutherland Paper Company, assignee: *See*—
Buttery, Kenneth T.
Stenger, Richard C.

Sutliff, Wayne N., Bakersfield, Calif. Hydraulic jar. 2,645,459, July 14.

Sutton, Irene L.: *See*—
Greenberg, Harry D., and Sutton.

Swanstrom, Martin S., Chicago, Ill. Saw frame structure for releasably holding and tensioning saw blades. 2,645,261, July 14.

Swart, Gilbert H.: *See*—
Te Grotenhuis, Theodore A., and Swart.

Swift & Company, assignee: *See*—
Mortenson, Everett N.

Swint, Franklin H., Hammond, Ind., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Coupler operating mechanism. 2,645,363, July 14.





Sydney-Thomas Corporation, assignee: *See*—
Makrauer, Irvin.

Sylvania Electric Products Inc., assignee: *See*—
Marchisio, Robert G.

Szymborski, Alexander F., assignee: *See*—
Jenner, Arthur J.

T. M. M. (Research) Llolited, assignee: *See*—
Haythornthwaite, James J., and Calvert.

Tabern, Donuler L., Lake Bluff, assignor to Abbott Laboratories, North Chicago, Ill. Antiseptic acridane compounds. 2,645,594, July 14.

Talamanco, Armand: *See*—
Beacom, Edward A., Sacklyn, and Talamanco.

Talone, Albert J., Morrisville, Pa. Gun sighting. 2,645,037, July 14.

Talpey, Norris A.: *See*—
Lucas, James H., and Talpey.

Tann, David, Detroit, Mich. V groove sheave. 2,645,131, July 14.

Tap and Drill Ex Corp., assignee: *See*—
Holmes, Wilbur C.

Taylor, Ambrose G., Ardrossan, and W. A. Caldwell, Seamill, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of formic acid. 2,645,661, July 14.

Taylor, Cloyd T., Traverse City, Mich. Double-duty fishhook. 2,645,054, July 14.

Taylor Instrument Companies, assignee: *See*—
Aldridge, Clarence F.

Taylor, Philip L., Abington, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric circuit breaker with arcing contacts in skew blast. 2,645,695, July 14.

Taylor, Richard D., Suffern, assignor to American Smelting and Refining Company, New York, N. Y. Sacrificial anode. 2,645,612, July 14.

Taylor, William F., Philadelphia, Pa., and E. K. Lotthammer, Jamaica, N. Y., said Lotthammer assignor to said Taylor. Child's garment rack. 2,645,357, July 14.

Teague, William F., assignee: *See*—
Posch, Rudolph A.

Technical Glass Company, Inc., assignee: *See*—
Netschert, Franz.

Technicon Cardiograph Corporation, assignee: *See*—
Gorham, George.

Technicon Chemical Company, Inc., assignee: *See*—
Ferrari, Andrés, Jr.

Te Grotenhuis, Theodore A., Olmstead Falls, and G. H. Swart, assignors to The General Tire and Rubber Company, Akron, Ohio. Resinous copolymers of nuclearly polysubstituted isopropenyl benzenes. 2,645,632, July 14.

Tel-A-Tale Motion Sign Corp., The, assignee: *See*—
O'Gorman, William F.

Telegraph Construction & Maintenance Company Limited, assignee: *See*—
Mildner, Raymond C., and Lovelace.

Texas A. & M. Research Foundation, assignee: *See*—
Jensen, Frederick W.

Texas Company, The, assignee: *See*
Lee, Burton D.

Textile Trimming & Boarding Machine Co., Inc., assignee: *See*—
Leonard, William T.

Thomas, Samuel B., Long Beach, and H. D. Evans, Concord, assignors to Shell Development Company, Emeryville, Calif. Catalytic reactor tube assembly. 2,645,567, July 14.

Thomas, Valery C., Sr., Miami, Fla. Window lock 2,645,515, July 14.

Thompson, Alfred L., Munster, Ind., K. T. Nystrom, Chicago, Ill., J. H. McQuiddy, St. Louis, Mo., and R. H. Stanley, Park Ridge, Ill., said Thompson, said Nystrom, and said McQuiddy, assignors to Standard Railway Equipment Manufacturing Company, said Stanley assignor, by mesne assignments, to World-O-Matic Company, Chicago, Ill. Cutting tool. 2,645,003, July 14.

Thompson, Daniel T., Los Angeles, Calif. Folding table, tennis table, or the like. 2,645,539, July 14.

Thompson, Leslie W., Louisville, Ky. Quick-change clutch disk. 2,645,320, July 14.

Thompson Products, Inc., assignee: *See*—
Booth, James H.
Prasse, Herbert F.

Thompson, Vaughan, Flin Flon, Manitoba, Canada. Wedge-level reamer. 2,645,456, July 14.

Thornbery, John H., Whitefish Bay, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety control device. 2,645,238, July 14.

Thorpe, Roy E.: *See*—
Adelson, David E., and Thorpe.

Thorsen, Thorvald L., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Air nozzle device. 2,645,528, July 14.

Thorstensen, Melvin C., Berwyn, Ill. Ornamental fluorescent stand lamp. 2,645,709, July 14.

Tiffany, Carter, Englewood, N. J. Gas detertor apparatus. 2,645,564, July 14.

Tilch, Hans: *See*—
Blessing, Albert, Staudenmeier, Tilch, and Kaiser.

Timken Roller Bearing Company, The, assignee: *See*—
Clark, Claude L.

Todd, Alexander R., and A. M. Michelson, Cambridge, assignors to National Research Development Corporation, London, England. Synthesis of adenosine-5'-triphosphate. 2,645,637, July 14.

Tom, Theodore B., and J. H. Krause, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Sweetening hydrocrabon distillates. 2,645,602, July 14.

Töpfer, Richard J., Bissingen (Enz), assignor to Inconex Handelsges. m. b. H., Stuttgart, Zuffenbausen, Germany. Tubular receptacle. 2,645,375, July 14.

Toy Enterprises of America, Inc., assignee: *See*—
Volman, Harold J.

Toy, Warren R., Yonkers, N. Y., assignor to Becton Dickinson and Company, Rutherford, N. J. Needle card. 2,645,339, July 14.

Trbojevich, Nikola, Detroit, Mich. Caliper using differential series of gauge blocks. 2,645,023, July 14.

Trbojevich, Nikola, Detroit, Mich. Angle measuring bar and micrometer. 2,645,026, July 14.

Trimble, Edward C., and W. C. Baxter, assignors to Trimble, Inc., Rochester, N. Y. Dressing table for infants' bath stands. 2,645,540, July 14.

Trimble, Inc., assignee: *See*—
Baxter, William C.
Trimble, Edward C., and Baxter.

Tronnier, Albrecht W., Gottingen, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany. Five-lens photographic objective. 2,645,154, July 14.

Tronnier, Albrecht W., Gottingen, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany. Photographic objective of high light-transmitting capacity of the Gauss type. 2,645,155, July 14.

Tronnier, Albrecht W., Gottingen, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany. Five-lens photographic objective comprising three members separated by airspaces. 2,645,156, July 14.

Tsouderos, Jean E. P., Saint-Maur-des-Fosses, France. Atomizer stopper for phials. 2,645,526, July 14.

Tucker, Jesse D., assignor of one-fourth to B. W. Fuller, Lodi, one-fourth to M. E. Miholland, and one-fourth to J. D. Tucker, Jr., Sacramento, Calif. Fuel injector. 2,645,182, July 14.

Tucker, Jesse D., Jr., assignee: *See*—
Tucker, Jesse D.

Turek, Thomas J.: *See*—
Fitch, Ellery R., and Turek.

Turner, George L.: *See*—
Hawkins, Frederick E., Lapsley, and Turner.

Turner, George L., assignor to Clark Equipment Company, Buchanan, Mich. 2,645,306, July 14.

Turner, George L., and R. Lapsley, assignors to Clark Equipment Company, Buchanan, Mich. Combination steering clutch, and throttle control. 2,645,296, July 14.

Turner, Lon D., Denver, Colo. Relief valve manifold. 2,645,243, July 14.

Ubel, George B., Buffalo, N. Y. Holder for electrically operated toothbrushes and the like. 2,644,972, July 14.

Udylite Corporation, The, assignee: *See*—
Davis, John Y.

Ulrich, Robert E., Riverton, N. J., assignor to Radio Corporation of America. Locking hinge. 2,645,446, July 14.

Underwood, Grace M., Berryton, Kans. Sewing machine gauge and guide. 2,645,194, July 14.

Union Carbide and Carbon Corporation, assignee: *See*—
Marsal, Paul A.
Newton, Lawrence W.
Riede, Peter M.

Union Oil Company of California, assignee: *See*—
Donmani, Thomas F., and Coe.

United Aircraft Corporation, assignee: *See*—
Newcomb, Philip P.
Sens, William H.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Pickering, George D.

United Shoe Machinery Corporation, assignee: *See*—
Benedict, Walter L., Goodnow, and Pulsifer.
Jorgensen, Bernhardt.
Juhola, Carl.
Stritter, Karl A.

United States Atomic Energy Commission, the United States of America as represented by the, assignee: *See*—
Madorsky, Samuel L., and Brewer.

United States Hoffman Machinery Corporation, assignee: *See*—
Allen, Albert S.

United States Rubber Company, assignee: *See*—
Curtiss, Nathaniel H.

Universal Oil Products Company, assignee: *See*—
Hoekstra, James.
Hoffman, Alfred E.
Pines, Herman, and Ipatieff.

Universal Steel Equipment Corporation, assignee: *See*—
Rosenberg, Philip.

Universal Wire Spring Company, The, assignee: *See*—
Blumensaadt, Svend G.

University of Michigan, Regents of the, assignee: *See*—
Blicke, Frederick F.

Upjohn Company, The, assignee: *See*—
Hogg, John A.

Valenta, Oldfich, Prague, Czechoslovakia. Coupling device for tubular elements. 2,645,509, July 14.
Valentine, Frank E.: *See*—
Scott, Benjamin B., Greene, and Valentine.
Van Ausdall, Carl, Liberty, Ind. Tension adjusting means for chain saws or the like. 2,645,254, July 14.
Van de Lindt, Willem J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electromagnetic device for amplitude-modulation of high-frequency oscillations. 2,645,758, July 14.
Vanderveld, Anthony, assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Bracket. 2,645,444, July 14.
Van Ryan, Anthony, South Milwaukee, and W. R. Harry, Hartland, assignors to McGraw Electric Company, Milwaukee, Wis. Load limiter. 2,645,726, July 14.
Van Winkle, John L.: *See*—
Morris, Rupert C., and Van Winkle.
Veaux, Henri M., Saint-Leu-la-Foret, France. Time division multiplex radio system. 2,645,770, July 14.
Veeder-Root Incorporated, assignee: *See*—
Illiss, Harvey N.
Verba, Richard J., Fairview Village, assignor to H. V. Schweitzer, Shaker Heights, Ohio. Ware lining tool. 2,644,975, July 14.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Transmission for motor vehicles. 2,645,299, July 14.
Voigtlander & Sohn Aktiengesellschaft, assignee: *See*—
Tronnier, Albrecht W.
Void, John, Wiggins, Colo. Split valve spring keeper inserter. 2,645,005, July 14.
Volff, Charles, and B. Bogatenkoff, assignors to l'Aire Liquide, Societe Anonyme pour l'Etude et l'Exploitation des procédés Georges Claude, Paris, France. Direct current electric generator having a large voltage drop. 2,645,731, July 14.
Volman, Harold J., Cicero, assignor to Toy Enterprises of America, Inc., Chicago, Ill. Magnetic dart entertainment device. 2,645,490, July 14.
Volman, Harold J., Cicero, Ill., assignor to Toy Eneterprises of America, Inc. Magnetic dart game having energizable signals. 2,645,491, July 14.
Von Zelewsky, Ottomar, Neuhausen am Rheinfall, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland. Hydraulic copying device for lathes. 2,645,084, July 14.
Von Zelewsky, Ottomar, Neuhausen am Rheinfall, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland. Support of copying lathes. 2,645,148, July 14.
Von Zelewsky, Ottomar, Neuhausen am Rheinfall, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland. Hydraulic copying device for lathes. 2,645,149, July 14.
Voorhees, Vanderveer, Los Altos, Calif., assignor to Standard Oil Company, Chicago, Ill. Hydraulically fracturing well formation. 2,645,291, July 14.
Waber, Donald, and R. Braunstein, Jr., Philadelphia, Pa. Dispensing container. 2,645,336, July 14.
Wacker, Dr. Alexander, Gesellschaft für Elktrochemische Industrie G. m. b H., assignee: *See*—
Nitzsche, Siegfried.
Waddell, Jacob W., Waverly, Ohio. Mason's level. 2,645,018, July 14.
Waggoner, Jack, H., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Producing synthetic mica. 2,645,060, July 14.
Walker, Fred L., Jr., South Charleston, Ohio, and W. E. Story, Jr., Cape May, N. J. Coded card segregating means. 2,645,226, July 14.
Walker, Harold N., Portland, and J. L. Pulli, Gladstone, Oreg. Apparatus for measuring water pressures in earth embankments. 2,645,128, July 14.
Walker, John C., Westfield, N. J., and B. O. Heston, Norman, assignors to Cities Service Oil Company, Bartlesville, Okla. Formaldehyde purification process. 2,645,665, July 14.
Walkey, Ira F., Van Nuys, Calif. Grinding attachment for lathes. 2,645,069, July 14.
Walters, Clarence C., Willoughby, assignor, by mesne assignments, to Crowley-Republic Steel Corporation, Cleveland, Ohio. Nozzle construction for atomizing a liquid material by an atomizing gas. 2,645,327, July 14.
Walton, Harold F., Boulder, assignor to Shwayder Bros., Inc., Denver, Colo. Regenerating electroiytic polishing solutions. 2,645,635, July 14.
Wasson, Jones, I.: *See*—
Rndel, Harry W., and Wasson.
Watts, John J., Kansas City, and M. A. Summerour, Lees Summit, Mo. Lawn mower drive. 2,645,300, July 14.
Wechsler, Herman, Ventura, Calif., assignor, by mesne assignments, to Dearborn Motors Corporation, Highland Park, Mich. Precision seed planter. 2,645,385, July 14.
Weidanz, Hermann E.: *See*—
Bozek, John S., and Weidanz.
Weinerman, Harry W., Brooklyn, N. Y. Supronimeter and foot balancing appliance. 2,645,025, July 14.
Weingartner, Gerald A.: *See*—
Bertell, Paul, and Weingartner.
Well Surveys, Incorporated, assignee: *See*—
Fearon, Robert E.
Weller, Edward F., Jr., Detroit, Mich., and R. G. Doyen, Milwaukee, Wis., assignors to General Motors Corporation, Detroit, Mich. Constant amplitude sweep generator. 2,645,715, July 14.
Wendzel, Frank, Haddonfield, N. J., assignor to Radio Corporation of America. Precision deflecting yoke. 2,645,735, July 14.
Wennberg, Curt E. S., assignee: *See*—
Wennberg, Olov C. G. and C. E. S.
Wennberg, Olov C. G. and C. E. S., Karlstad, Sweden. Handle control for electrically driven ilft trucks. 2,645,297, July 14.
Western Electric Company, Incorporated, assignee: *See*—
Meilstrup, Emil E.
Westervelt, Robert A., Ames, Iowa, and R. L. Cummerow, Schenectady, N. Y. Electronic scanning apparatus. 2,645,741, July 14.
Westinghouse Air Brake Company, assignee: *See*—
Bone, Herbert L.
Franke, Herman F.
Martin, Paul N.
McCloy, Graham S.
Weston Electrical Instrument Corporation, assignee: *See*—
Goodwin, William N., Jr.
Wharton, John, and R. B. Hall, Coventry, assignors to Courtaulds Limited, London, England. Manufacture and production of artificial threads from viscose. 2,645,555, July 14.
Wheeler, Byron E., San Francisco, Calif., assignor to The Pelton Water Wheel Company. Governor head vibration dampener. 2,645,237, July 14.
Wheeler, Edwin F., Baltimore, Md. Automatic domestic dishwasher. 2,645,235, July 14.
Whirlpool Corporation, assignee: *See*—
Fields, George C.
Wiegerink, James G., Sr., Ridley Park, Pa. Ironing aid and textile refinishing composition. 2,645,584, July 14.
Wilkinson, Wilfred H.: *See*—
Morley, Frederick W. W., and Wilkinson.
Willard, Gerald W., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Focusing ultrasonic radiator. 2,645,727, July 14.
Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Bolster support menns for rail car trucks. 2,645,188, July 14.
Williams, David C., Needham Heights, Mass., assignor to D. Hiddison, New York, N. Y. Toggle actuated vise. 2,645,144, July 14.
Williams, Evan C., Wilton, Conn., assignor to General Aniline & Film Corporation, New York, N. Y. Apparatus for extinguishing fires. 2,645,292, July 14.
Williams, Ferd E., Schenectady, N. Y., assignor to General Electric Company. Image intensification apparatus. 2,645,721, July 14.
Williamson, Robert V., Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Making lignocellulose pressure molded article. 2,645,587, July 14.
Willis, Stanley L.: *See*—
Ofenstein, Robert C., and Willis.
Willson, Abner R., and D. W. Nelson, Seattle, Wash., assignors to The MB Manufacturing Company, Inc., New Haven, Conn. Electrical vibratory apparatus. 2,645,728, July 14.
Willys Motors, Inc., assignee: *See*—
Roos, Delmar G.
Wilson, Edward, Dubois, Idaho. Log shaping machine. 2,645,253, July 14.
Wilson-Jones Company, assignee: *See*—
Segal, Samuel.
Wilson, Robert H.: *See*—
Adams, Dennis A. W., Davies, and Wilson.
Winters, Floyd, Monterey, Calif. Apparatus for stacking flat cans. 2,645,328, July 14.
Wirth, Max M.: *See*—
Oldham, Wilfred J., and Wirth.
Witzel, Ernst, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Single point ignition. 2,645,280, July 14.
Wolf Brothers, Inc., assignee: *See*—
Blizard, Walter S.
Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Coupler yoke and draft gear assembly. 2,645,361, July 14.
Wong, George L., Oakland, Calif. Fisherman's lounging seat. 2,645,275, July 14.
Wood, Robert S., Elizabeth, N. J., assignor to Standard Oil Development Company. Liquid-liquid extraction tower. 2,645,565, July 14.
Wood, Vollmer V., Los Angeles, and E. B. Bigné, Beverly Hills, assignors to Pioneer Development Co., Los Angeles, Calif. Folding and stacking machine. 2,645,476, July 14.
Wood, William H., Mantua, assignor to Harris-Seybold Company, Cleveland, Ohio. Lithograph-plate preparation. 2,645,578, July 14.
World-O-Matic Company, assignee: *See*—
Thompson, Alfred L., Nystrom, McQuiddy, and Stanley.



Wright, Ward J., Kanawha, Iowa. Chick counting device. 2,645,424, July 24.
Wrobel, Carl H., Detroit, Mich. Reducing and enlarging machine for draftsman and designers. 2,645,016, July 14.
Yost, Merrill, Sacramento, Calif. Hole boring rig. 2,645,458, July 14.
Young, Norman H., Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation. Method and means for transmitting intelligence. 2,645,677, July 14.
Young, Vernon V., assignor to Commercial Solventa Corporation, Terre Haute, Ind. Penicillin salts of N-methyl-(2-hydroxy-1,2-diphenylethyl)-amine. 2,645,638, July 14.
Yuba Manufacturing Company, assignee: *See*—
Harris, Robert L., and Lothrop.
Zablocki, Charles J.: *See*—
Hayward, Frank W., and Zablocki.
Zeidler, Kurt E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Floor protecting plate. 2,645,167, July 14.
Zerweck, Werner and M. Schubert, assignors to Cassella Farbwerke Mainkur Aktiengesellschaft, Frankfurt am Main Fechenheim, Germany. Alkali metal salts of a cobalt complex of ethylene-bisimino-diacetic acid. 2,645,653, July 14.
Zielaskowski, Orville W., Corvallis, Oreg. Device for taking inseam measurement of trousers. 2,645,015, July 14.
Zig Zag Spring Co., assignee: *See*—
Norman, Harry H.
Zimarik, John, Akron, Ohio. Apparatus for pressing sheets. 2,645,044, July 14.
Zippo Manufacturing Company, assignee: *See*—
Avis Walter R.
Zonner, William A., Watertown, assignor to St. Regis Paper Company, New York, N. Y. Paper coating machine. 2,645,199, July 14.
Zucker, Morris A., Bronx, N. Y. Embroidery attachment for zigzag sewing machines. 2,645,195, July 14.
Zwaard, Henricus C. A., Rijswijk, assignor to Machinefabriek Reineveld N. V., Delft, Netherlands. Drying apparatus for laundry work. 2,645,035, July 14.

# LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Alloy steel. W. C. Clarke, Jr. Re. 23,685, July 14.
Communication system. R. A. Heising. Re. 23,686, July 14.
Machine tool. W. L. Benningboff and A. F. Robertson. Re. 23,684, July 14.

# LIST OF PLANT INVENTIONS

Fuchsia plant. H. M. Tiret. 1,201—4, July 14.
Peach tree. J. Valdern. 1,205, July 14.

# LIST OF DESIGN INVENTIONS

Airplane. H. J. Myser. 170,025, July 14.
Airplane. C. Williams. 170,037, July 14.
Ash tray. E. Harper. 170,020, July 14.
Backguard and shelf for stoves, Combined. G. H. Cripe and R. J. Petersen. 170,009, July 14.
Broom or similar article. E. Gantz. 170,017, July 14.
Cabinet, Freezer. R. D. Budlong. 170,002, July 14.
Cabinet or similar article, Television. J. Barofsky. 170,001, July 14.
Cabinet, Spice. C. H. Greenlee. 170,018, July 14.
Camera, Photographic. M. Schwartz and W. Castedello. 170,032, July 14.
Candle. P. C. Perlmutter. 170,027, July 14.
Chain for a bracelet or the like, Expansible link. E. Rodriguez. 170,028, July 14.
Chest. E. Herrmann. 170,021, July 14
Counter, Combined service and display. T. Carvel. 170,003, July 14.
Desk. D. Schindele. 170,031, July 14.
Desk-chair unit or the like, Combination. D. Chapman and R. G. Reineman. 170,005, July 14.
Desk or the like. D. Chapman and R. G. Reineman. 170,004, July 14.
Dish, Baby. J. E. Donaldson. 170,010, July 14.
Dispenser and toothbrush holder, Combined tooth paste. J. Arena. 170,000, July 14.
Doll. M. M. Collins. 170,007, July 14.
Doll. H. G. Cooke. 170,008, July 14.
Emblem for household appliances or the like. M. Ferar. 170,013, July 14.
File, Nail. H. Troya. 170,035, July 14.
Furnace, Hot air. R. R. Dupier. 170,011, July 14.
Gear box cover and shaft support, Combination. P. W. Hainke. 170,019, July 14.
Lamp, Cradle telephone. R. Foss. 170,016, July 14.
Lighting fixture, Fluorescent tube. G. Ainsworth. 169,999, July 14.
Lock, Cabinet. S. Wise. 170,038, July 14.
Moccasin. T. J. Weiss. 170,036, July 14.
Pair of spectacles. J. R. Spencer. 170,033, July 14.
Pencil sharpener and the like. H. O. Sandberg. 170,029, July 14.
Pylon, Illuminable. L. A. Sauer. 170,030, July 14.
Scarf, Head. N. K. Marris. 170,024, July 14.
Shoe. S. Ferragamo. 170,015, July 14.
Signal, Traffic. J. R. Ferguson. 170,014, July 14.
Skirt or similar article. S. Feldman. 170,012, July 14.
Spotlight or similar article. P. G. Stone. 170,034, July 14.
Sprayer for insecticides, deodorants, or the like. F. A. Ziberl. 170,039, July 14.
Sweater or the like. S. Levine. 170,022, July 14.
Table or the like. D. Chapman and R. G. Reineman. 170,006, July 14.
Toy cap pistol or similar article. F. J. Maywald. 170,023, July 14.
Toy or similar article, Child's riding. L. C. Peltier. 170,026, July 14.



# LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abnormal voltage indicating device. W. H. Bixby. 2,645,765, July 14.
Abrading tool. J. Paviovic. 2,645,064, July 14.
Accelerated condensing organopolysiloxane compositions. S. Nitzsche. 2,645,629, July 14.
Accumulating control mechanism. H. P. Luhn. 2,645,421, July 14.
Acetylene, Producing. R. L. Hasche. 2,645,673, July 14.
Acid adsorbing resin adsorption product. E. L. Gustus. 2,645,627, July 14.
Adjustable holder. W. R. Meredith. 2,645,441, July 14.
Aircraft multiwheel continuous tread landing gear. G. Baumartini. 2,645,437, July 14.
Air induction system heating in supercharged engine. J. A. Lawler. 2,645,409, July 14.
Air pump. H. G. Malerhofer. 2,645,414, July 14.
Air spaced electric cables, Manufacture of. R. C. Mildner and C. E. C. Lovelace. 2,645,590, July 14.
Alkali metal salts of a cobalt complex of ethylene-bisiminodiacetic acid. W. Zerweck and M. Schubert. 2,645,653, July 14.
Alkyl esters of aconitic acid, Preparation of. H. F. Reeves, Jr. 2,645,658, July 14.
Alkyl substituted aromatic ketones, Preparation of. L. W. Newton. 2,645,663, July 14.
Alkylation of aromatic hydrocarbons. W. A. Schulze. 2,645,672, July 14.
Aluminum chlorhydroxy complex and borate gel. T. Govett and M. L. Almquist. 2,645,616, July 14.
Ammonium sulfate production. C. Otto. 2,645,559, July 14.
Amplifying and triggering means for magnetic hardness testers. M. J. Diamond. 2,645,341, July 14.
Angle control for fish pole holders. W. M. Gauthier. 2,645,439, July 14.
Ankle and foot support. J. C. Capossela. 2,645,222, July 14.
Antenna support tower and erecting and operating same. R. E. Frushour. 2,645,315, July 14.
Antioxidant salt and preparing the same. C. S. Robison. 2,645,581, July 14.
Antiseptic acridane compounds. D. L. Tabern. 2,645,594, July 14.
Apparatus for and method of forming paste mold glassware. G. E. Howe. 2,645,059, July 14.
Apparatus for and method of water supply control for dust collectors. R. L. McIlvaine. 2,645,304, July 14.
Apparatus for bleeding air and replacing liquid in hydraulic brake systems. F. P. Lackinger. 2,645,314, July 14.
Apparatus for casting articles. J. Fisher. 2,645,218, July 14.
Apparatus for coating paper. G. D. Muggleton. 2,645,201, July 14.
Apparatus for congelation of ground. J. P. Daxelhofer. 2,645,093, July 14.
Apparatus for dielectric adhesive bonding of shoe parts. C. Juhola. 2,644,966, July 14.
Apparatus for drying filmlike materials. C. N. Edwards. 2,645,031, July 14.
Apparatus for dynamic determination of reduction in area of specimens during mechanical tests. C. H. Hastings and S. W. Carter. 2,645,151, July 14.
Apparatus for extinguishing fires. E. C. Williams. 2,645,292, July 14.
Apparatus for filling bags. C. W. Spohr. 2,645,396, July 14.
Apparatus for grinding the worn ends of valve tappets and the like. H. R. Billeter. 2,645,068, July 14.
Apparatus for magnetic separation of materials. R. C. Hoff. 2,645,348, July 14.
Apparatus for manufacturing tire treads. D. E. Crooker. 2,644,984, July 14.
Apparatus for measuring water pressures in earth embankments. H. N. Walker and J. L. Pulli. 2,645,128, July 14.
Apparatus for opening cigarette packets. K. G. E. Alfredsson and S. G. Hanell. 2,645,007, July 14.
Apparatus for preparing freshly spun cakes of rayon for aftertreatments. R. V. De Vault and R. J. Echerd, Jr. 2,645,434, July 14.
Apparatus for pressing sheets. J. Zimarik. 2,645,044, July 14.
Apparatus for regulating propulsion power plants. H. M. Ogle, D. E. Garr, and M. A. Edwards. 2,645,293, July 14.
Apparatus for separating the constituents of gaseous mixtures. A. J. and I. F. Fausek. 2,645,103, July 14.
Apparatus for stacking flat cans. F. Winters. 2,645,328, July 14.
Apparatus for stripping and removing artificial casings from sausages. J. W. Ball. 2,644,979, July 14.
Apparatus for the automatic forming of cast fibrous pulp cone blanks for cone speaker diaphragms. C. E. Stevens. 2,645,165, July 14.
Apparatus for the production of integral blade turbine wheels and the like units. R. J. Stuart and A. D. Gunderson. 2,645,161, July 14.
Applying brittle brazing material, Method and means for. O. P. Hadley. 2,645,006, July 14.
Aqueous detergent solutions, Thickened. F. J. Pollok. 2,645,615, July 14.
Arc welding apparatus, Inert gas-shielded. R. E. Dahl. 2,645,703, July 14.
Arrangement for indicating the rate of change of a physical effect. W. L. Garfield. 2,645,755, July 14.
Artificial filaments, Production of. L. A. Bashford and G. Doubleday. 2,645,556, July 14.
Artificial threads from viscose, Manufacture and production of. J. Wharton and R. B. Hall. 2,645,555, July 14.
Ash receiver for personal use, Portable. E. A. Stillman. 2,645,229, July 14.
Assembling and insulating flat dry cells. R. Emériat. 2,645,676, July 14.
Assembling flexible tubing upon mandrels, Method of and apparatus for. J. A. Dorner. 2,645,004, July 14.
Atomizer, Liquid. J. E. Nyrop. 2,645,525, July 14.
Attachment for woodworking shapers. O. P. Smith. 2,645,256, July 14.
Automatic apparatus for injecting curing liquid into hog bellies and the like. N. J. Allbright, R. W. Ilisley, and B. S. Harrington. 2,645,172, July 14.
Automatic gate. Y. Ponsar. 2,654,089, July 14.
Automatic transmission. C. R. Roche. 2,645,137, July 14.
Automatic tuning circuit. A. M. Bucksbaum. 2,645,719, July 14.
Automobile lift, Power-driven. P. Stabile. 2,645,367, July 14.
Awning, Sectional metallic. W. I. Smith. 2,644,990, July 14.
Axial indicator. F. Pool, Jr. 2,645,024, July 14.
Back circulator device. B. A. Deters and W. W. Butler. 2,645,288, July 14.
Back rest, Bleacher. R. Leach. 2,645,274, July 14.
Bagging machine. T. C. Schenk. 2,645,395, July 14.
Balance scheduling means for listing calculating machines. H. M. Fleming. 2,645,418, July 14.
Balanced valve. K. C. Bugg. 2,645,448, July 14.
Ball, Card. J. R. Monahan. 2,645,486, July 14.
Bar and micrometer, Angle measuring. N. Trbojevich. 2,645,026, July 14.
Baseball. E. H. Hawes. 2,645,487, July 14.
Basket, Junk. W. W. Fortenberry. 2,645,290, July 14.
Bathing device, Infant's. N. K. Brodine. 2,645,442, July 14.
Bathing device, Infant's. B. H. Kennedy. 2,644,953, July 14.
Bearing: *See*—
Pressurized bearing.
Bearing and means for lubricating same. J. C. Bartch and G. W. Couch. 2,645,535, July 14.
Bed covering. L. W. McCrory. 2,644,962, July 14.
Belt guide. J. E. Smith. 2,644,994, July 14.
Bit: *See*—
Cutter bit.
Blade engageable electric connector. S. S. Fortino. 2,645,760, July 14.
Blade sharpening device. R. B. Smith. 2,645,063, July 14.
Blasting shell and firing mechanism therefor. K. C. Bugg. 2,645,181, July 14.
Bolster support means for rail car trucks. A. O. Williams. 2,645,188, July 14.
Bonding an end closure to a thermoplastic bag. I. Makrauer. 2,645,591, July 14.
Bookmarker. J. E. and J. D. Jones. 2,645,197, July 14.
Bookstack, Compacted. A. S. Macdonald. 2,645,356, July 14.
Bottle breaking apparatus. L. A. Kandle. 2,645,428, July 14.
Bottle carrier. E. L. Arneson. 2,645,403, July 14.
Bottle opener and can opener, Combination. C. W. Brewer. 2,645,008, July 14.
Bowl, Centrifugal. G. J. Strezynski. 2,645,415, July 14.

Bowl guard, Saliva. C. H. Oertel. 2,644,956, July 14.
Box: *See*—
Golf club box. Picnic box.
Box. I. Robins. 2,645,406, July 14.
Box for shipping, displaying, and storing fragile articles such as thermometers or the like. C. F. Aldridge. 2,645,334, July 14.
Box with carrying handle. R. M. Bergstein. 2,645,407, July 14.
Bracket: *See*—
Window shade bracket.
Bracket. A. Vanderveld. 2,645,444, July 14.
Brake adjuster, Hydraulic. T. P. Chase. 2,645,312, July 14.
Brake for pneumatic brake systems, Hydraulic emergency. F. S. Schandt. 2,645,313, July 14.
Brake for vehicles and other uses. P. Farkas. 2,645,311, July 14.
Brake rigging. G. B. Hunt. 2,645,310, July 14.
Braking system, Fluid pressure. N. A. Stegman. 2,645,307, July 14.
Brassière. H. L. Schwartz. 2,644,947, July 14.
Brewing device, Beverage. R. S. McWatters. 2,645,173, July 14.
Brush wiper. F. J. Bosley. 2,645,377, July 14.
Bubble cap assembly. P. J. Sullivan. 2,645,468, July 14.
Bubble cap fastening means. G. W. Plossl and W. E. Leety. 2,645,469, July 14.
Bubble tower, Leaning. W. H. Rupp. 2,645,467, July 14.
Bucksaw frame. H. E. Hull. 2,645,260, July 14.
Buffing wheel. P. A. Kletzmann. 2,645,095, July 14.
Bulb unit, Electric light. J. B. Dickson. 2,645,736, July 14.
Button-clamp lifting means, Automatic. M. McCann. 2,645,192, July 14.
Cabinet construction, Refrigerated display. F. Kuhn. 2,645,096, July 14.
Cabinet structure for washing machines. M. A. Kreitchman and W. J. Olson. 2,645,348, July 14.
Calculator equipment working with teleprinter. W. Hatton, L. B. Haigh, and L. Kozma. 2,645,420, July 14.
Caliper using differential series of gauge blocks. N. Trbojevich. 2,645,023, July 14.
Camera, High-speed. F. W. Hayward and C. J. Zablocki. 2,645,169, July 14.
Can cover inserting device. H. D. Lathrop. 2,645,400, July 14.
Cap construction, Lined. H. D. Greenberg and I. L. Sutton. 2,644,949, July 14.
Car coupler. H. L. Spence. 2,645,362, July 14.
Carbon base pastes, Preparing. S. Stanko. 2,645,583, July 14.
Carburetor adapter. M. F. Anderson. 2,645,570, July 14.
Carriage position control means for accumulation of products around a fixed decimal point. F. W. Pfleger. 2,645,422, July 14.
Carrier: *See*—
Bottle carrier. Removable luggage carrier.
Carrier for motor vehicles, Water bag. R. W. Campbell. 2,645,393, July 14.
Carton, Collapsible and reusable. I. Dorfman. 2,645,405, July 14.
Carton, Collapsible cellular. K. T. Buttery. 2,645,402, July 14.
Carton for baked goods and other easily broken products. R. C. Stenger. 2,645,337, July 14.
Case and key therefor, Key. H. N. Olsen. 2,645,113, July 14.
Chain link. V. J. David. 2,645,133, July 14.
Chain-mortising square hole cutting attachment for drill presses. A. Francescatti and R. Micek. 2,645,255, July 14.
Charging and discharging device for refuse trucks. A. Blessing, G. Staudenmeier, H. Tilch, and F. Kaiser. 2,645,371, July 14.
Child's garment rack. W. F. Taylor and E. K. Lotthammer. 2,645,357, July 14.
Chloromethyl derivatives of dibenzanthronyl, dibenzanthrone and isodibenzanthrone compounds. D. I. Randall. 2,645,646, July 14.
Chloromethylation of aryiaminopolycyclic quinones. D. I. Randall and E. E. Renfrew. 2,645,645, July 14.
Chocking device for vehicles. M. E. Grotz. 2,645,309, July 14.
Chromium-nickel titanium base alloys. S. A. Herres and T. K. Redden. 2,645,575, July 14.
Circuit: *See*—
Automatic tuning circuit. Synchronization circuit.
Dual limit control circuit. Telephone equalizer circuit.
Gating trigger circuit.
Circuit arrangement comprising a reflex discharge tube. F. Coeterier. 2,645,738, July 14.
Circuit arrangement embodying electron discharge devices employing target electrodes. H. G. Lubszynski. 2,645,740, July 14.
Circuit breaker, Electric. J. W. Beatty. 2,645,697, July 14.
Circuit breaker, Electric. A. Roxburgh and A. Leigh. 2,645,696, July 14.
Circuit breaker operating mechanism, Bench assembled. E. C. Goodwin. 2,645,699, July 14.
Circuit breaker with arcing contacts in skew blast, Electric. P. L. Taylor. 2,645,695, July 14.
Circuit breaker, with extended contact travel. G. A. Matthews. 2,645,689, July 14.
Circuit controller contact assembly. H. L. Bone. 2,645,688, July 14.
Circuit for storage tubes, Reading. J. A. Rajchman, M. H. Mesner, and N. Rosenberg. 2,645,712, July 14.
Clamp: *See*—
Dental clamp. Stereotype plate clamp.
Hingeless dental clamp.
Clasp for jewelry, Bead chain. M. J. McFarland. 2,644,992, July 14.
Cleaner: *See*—
Vacuum cleaner.
Cleaner solution supply for beer distributing systems, Automatic. B. Audia. 2,645,379, July 14.
Clearing agents for histological tissue. A. Ferrari, Jr. 2,645,618, July 14.
Clearing agents for histological tissue. A. Ferrari, Jr. 2,645,647, July 14.
Clock setting and regulating mechanism. P. Olson. 2,645,077, July 14.
Close-off device for pipe lines. A. F. Klickman. 2,645,244, July 14.
Closed cycle engine. L. F. Campbell. 2,645,216, July 14.
Closure member for tube ends. P. D. Becker. 2,644,978, July 14.
Clothesline hanger. W. W. Moore and C. A. McCormick. 2,645,358, July 14.
Clutch disk, Quick-change. L. W. Thompson. 2,645,320, July 14.
Coating machine, Paper. W. A. Zonner. 2,645,199, July 14.
Coded card segregating means. F. L. Walker, Jr., and W. E. Story, Jr. 2,645,226, July 14.
Collapsible covered container. K. T. Buttery. 2,645,404, July 14.
Collimating optical sight. A. D. Robbins. 2,645,150, July 14.
Collision unit. J. L. Elam. 2,645,267, July 14.
Color television. J. W. Christensen. 2,645,678, July 14.
Coloring woven glass fibers. C. L. Lawsberg. 2,645,553, July 14.
Comb, Fountain. M. O. Decker. 2,645,231, July 14.
Combination vehicular and portable food and beverage container. M. Gottsegen and H. N. Stein. 2,645,392, July 14.
Commode, Bed. A. J. Shudde. 2,644,957, July 14.
Commutator. P. A. Marsal. 2,645,732–3, July 14.
Compartment superimposed on vehicle body, Occupant. H. A. Cook. 2,645,518, July 14.
Composite structural member and in the manufacture thereof. P. W. Abeles. 2,645,115, July 14.
Compositions for tinting hair. F. M. Lipman. 2,645,595, July 14.
Compressor, Gaseous fluid. L. Bauger and J. Roty. 2,645,410, July 14.
Concentrating solutions. F. A. Bonzagni. 2,645,625, July 14.
Condensation of alcohols in the presence of calcium hydroxide. E. E. Burgoyne. 2,645,667, July 14.
Condensation of alcohols in the presence of calcium oxide. E. E. Burgoyne and F. E. Condon. 2,645,668, July 14.
Condiment drier. L. E. Munch. 2,645,342, July 14.
Connector: *See*—
Blade engageable electric connector.
Connector for jetty units. G. W. Rebfeld. 2,645,088, July 14.
Constant amplitude sweep generator. E. F. Weller, Jr., and R. G. Doyen. 2,645,715, July 14.
Contact lens and method and apparatus for making same. H. D. Crandon. 2,644,985, July 14.
Container: *See*—
Collapsible covered container. Dispensing container.
Fabricated metal container.
Combination vehicular and portable food and beverage container.
Container support. F. F. Gunther. 2,645,376, July 14.
Continuous extraction of sugar from sugar beets, Method and apparatus for the. E. Langen. 2,645,589, July 14.
Continuous flow mixing, Method and apparatus for. R. F. Stearns. 2,645,463, July 14.
Control apparatus. R. H. Hill. 2,644,999, July 14.
Control device for oil burners. R. F. Andler. 2,645,411, July 14.
Control means for buttonholing apparatus. W. T. Leonard. 2,645,190, July 14.
Control mechanism for clothes driers. K. M. Hammell. 2,645,032, July 14.
Control mechanism for coin counting machines. A. R. Buchholz. 2,645,234, July 14.
Controlling susceptance of a post type obstacle. R. B. Reade. 2,645,679, July 14.
Conversion arrangement for suction cleaners. R. C. Osborn. 2,644,976, July 14.
Conveyer for poultry feeding apparatus, Endless. A. J. Bohman. 2,645,331, July 14.
Cooling system for electric brakes. P. E. Bessière. 2,645,730, July 14.





Copying device for lathes, Hydraulic. O. von Zelewsky. 2,645,149, July 14.
Corn husker having rolls of alternate metal and rubber sections. W. R. Davies. 2,645,228, July 14.
Corn picker roll adjusting mechanism. E. K. Karlsson. 2,645,075, July 14.
Corrugated slabs, Making. C. Herzog. 2,645,269, July 14.
Corset spring. E. Menz and M. W. Schmidt. 2,644,946, July 14.
Counter mechanism. H. N. Bliss. 2,645,425, July 14.
Counter value setting device, Predetermined. C. Sansone. 2,645,426, July 14.
Counting and packing machine. W. P. McCallick and Y. L. Sanchez. 2,645,397, July 14.
Counting device, Chick. W. J. Wright. 2,645,424, July 14.
Coupler operating mechanism. F. H. Swint. 2,645,363, July 14.
Coupler yoke and draft gear assembly. H. H. Wolfe. 2,645,361, July 14.
Coupling device for tubular elements. O. Valenta. 2,645,509, July 14.
Cowtail suspender. S. Jaksekovich. 2,645,203, July 14.
Cradle, Electric. W. G. Davis. 2,644,958, July 14.
Cream separator and cap. E. Schoemaeker. 2,645,349, July 14.
Cross blast circuit breaker with arcing contacts controlling orifice of arcing chamber. C. D. Ainsworth. 2,645,694, July 14.
Crotch type arrow projector. J. Fisher. 2,645,217, July 14.
Crystalline penicillin salts, Production of. G. H. Brown, W. C. Morrison, and E. W. Flosdorf. 2,645,639, July 14.
Curb stop and drain. J. H. Lucas and N. A. Talpey. 2,645,452, July 14.
Cushion lining for dentures. S. J. Hetzel. 2,645,012, July 14.
Cutter bit. J. D. King. 2,645,471, July 14.
Cutting and welding apparatus, Universal gas. V. B. Garrison. 2,645,475, July 14.
Cutting machine, Compound bore. F. C. Granade and G. H. A. Ruby. 2,645,162, July 14.
Cutting tool. A. L. Thompson, K. T. Nystrom, J. H. McQuiddy, and R. B. Stanley. 2,645,003, July 14.
Cylinder construction. V. C. Sterrett. 2,645,513, July 14.
Dead latching door lock. F. Netschert. 2,645,512, July 14.
Debarker and sprayer. C. F. Dukes and L. Godwin. 2,645,058, July 14.
Deburring and swaging mandrel for interior wall of tubing. R. C. Ofenstein and S. L. Willis. 2,645,164, July 14.
Defrosting arrangement in refrigeration system. L. F. La Porte. 2,645,101, July 14.
Dehorning device. A. L. Otis. 2,645,011, July 14.
Dehydrator, Walnut. J. M. Frantz. 2,645,036, July 14.
Deicer for jet engines. P. P. Newcomb. 2,645,080, July 14.
Delinter, Seed. L. A. Pazandak. 2,644,986, July 14.
Dental clamp. W. E. Mathison. 2,645,013. July 14.
Desk. J. W. Stringe. 2,645,546, July 14.
Desk and support therefor, Cabinet. E. A. Channer, Jr. 2,645,547, July 14.
Determining characteristics of earth formations, Method and apparatus for. C. R. Glanville, H. F. Dunlap, and E. W. Shuler, Jr. 2,645,752, July 14.
Determining the end point of a titration. F. W. Jensen. 2,645,563, July 14.
Deveiner and splitter, Shrimp. A. R. McKinstry. 2,644,980, July 14.
Device for crimping cable connectors. F. M. and H. S. Anthony. 2,645,141, July 14.
Device for recording the listening habits of wave signal receiver users. G. H. Bateman and F. Krahulec. 2,645,549, July 14.
Device for supplying ink to ribbons. J. P. Knight. 2,645,202, July 14.
Device for taking inseam measurement of trousers. O. W. Zielaskowski. 2,645,015, July 14.
Device in Venetian blinds or the like. G. Johansson. 2,645,283, July 14.
Dewaxing oils containing wax. H. C. Myers, A. O. Pukkila, and J. I. Barnes. 2,645,600, July 14.
Dial type comparator, Accurately repeating. S. A. Foster. 2,645,020, July 14.
Differential pressure actuation device. J. S. Baker. 2,645,248, July 14.
Diphenylamine, Manufacture of. R. H. Nimmo. 2,645,662, July 14.
Dishwasher, Automatic domestic. E. F. Wheeler. 2,645,235, July 14.
Dispenser: *See*—
Flint dispenser. Liquid dispenser.
Dispenser for rolls of cotton. P. V. Mancini. 2,645,543, July 14.
Dispenser for thick and viscous liquids. A. L. Bobrick. 2,645,386, July 14.
Dispensing container. D. Waber and R. Braunstein, Jr. 2,645,336, July 14.
Dispensing device, Tape. G. H. Boyd. 2,645,286, July 14.
Dispensing machine, Stick. R. F. Anderson. 2,645,398, July 14.
Dispersing apparatus. D. D. Forbes. 2,645,464, July 14.
Displacement type sampler. W. J. Leaa. 2,645,289, July 14.
Ditch digging attachment for vehicles. R. Booton and G. C. Bower. 2,645,043, July 14.
Ditch forming and lining implement. C. H. Palmer. 2,645,091, July 14.
Dock construction, Loading. A. E. Rowe. 2,644,971, July 14.
Door: *See*—
Furnace door.
Door latch tripping mechanism. H. W. Sanford. 2,645,368, July 14.
Door lock. N. F. Robertson. 2,645,516, July 14.
Door mounting. R. C. Parkes. 2,644,989, July 14.
Drier: *See*—
Condiment drier. Hair drier.
Drill jig. E. E. Mellstrup. 2,645,140, July 14.
Drive mechanism for clothes washing machines and the like. C. S. Dayton. 2,645,110, July 14.
Drum stop mechanism for rotary duplicating machines. C. A. Levin. 2,645,174, July 14.
Drying apparatus for laundry work. H. C. A. Zwaard. 2,645,035, July 14.
Dual limit control circuit. R. J. Cassidy. 2,645,744, July 14.
Educational device presenting pictorial and numerical problems. A. H. Merrill. 2,645,038, July 14.
Educational device teaching reading and arithmetic. A. H. Merrill. 2,645,041, July 14.
Egg-grading machine. R. J. Hayter. 2,645,344, July 14.
Electric discharge device. A. H. Reeves. 2,645,742, July 14.
Electric energy meter. C. R. López. 2,645,757, July 14.
Electrical resistor and resistance elements therefor. F. E. Kerridge, M. Belham, and G. Pearce. 2,645,701, July 14.
Electro-magnetic device for amplitude-modulation of high-frequency oscillations. W. J. van de Lindt. 2,645,758, July 14.
Electromechanical transducer. L. J. Anderson and R. K. Duncan. 2,645,683, July 14.
Electron discharge apparatus. J. H. Fremlin and R. N. Hall. 2,645,739, July 14.
Electron tube circuits. P. N. Martin. 2,645,716, July 14.
Electronic scanning apparatus. R. A. Westervelt and R. L. Cummerow. 2,645,741, July 14.
Embossing machine. G. C. Brainard and J. H. Gruver. 2,645,322, July 14.
Embroidery attachment for zigzag sewing machines. M. A. Zucker. 2,645,195, July 14.
Emergency shutoff valve. C. H. Horn and S. H. Smith. 2,645,239, July 14.
Emulsion copolymerization of sulfur dioxide and unsaturated organic compounds. W. W. Crouch and E. W. Cotton. 2,645,631, July 14.
Engine: *See*—
Closed cycle engine.
Two-cycle rear piston compression engine.
Engine having hollow pistons, Free piston. R. Huber. 2,645,213, July 14.
Entertainment device, Magnetic dart. H. J. Volman. 2,645,490, July 14.
Escapement mechanism for typewriters, Adjustable. F. J. Kavanaugh. 2,645,324, July 14.
Excess acid process for the manufacture of esters. W. M. Drout, Jr., and W. G. Emerson, Jr. 2,645,660, July 14.
Exercising device, Foot actuated. H. N. Magida. 2,645,482, July 14.
Extraction of lignin. J. H. Richmond, R. M. Boehm, and H. R. Hunt. 2,645,633, July 14.
Extraction of lubricating oils with a phenol-alkanolamine solvent. W. N. Axe. 2,645,596, July 14.
Extraction tower, Liquid-liquid. R. S. Wood. 2,645,565, July 14.
Fabricated metal container. P. S. Menough. 2,645,472, July 14.
Fascia board and end fitting therefor. H. Nelson. 2,645,281, July 14.
Fastener attaching machine. G. D. Pickering. 2,645,374, July 14.
Fastener for hinged tail gates. J. R. Morgan. 2,645,520, July 14.
Faucet for measuring, mixing, and dispensing beverages J. H. Donnelly. 2,645,380, July 14.
Faucet with pressure sealed expanding washer valve seat. D. E. Gulick. 2,645,449, July 14.
Feed and traverse mechanism for automatic turret lathes. W. H. Feeney and G. W. Smithson. 2,645,134, July 14.
Feeder: *See*—
Multiple sheet feeder.
Feeding foot for sewing machine attachments, Attachable. J. Connors. 2,645,191, July 14.
Feeding of labels, sheets, and the like from a stack. A. G. Rose. 2,645,373, July 14.
File holder. C. B. Dailey and H. Harrison. 2,645,002, July 14.
Filling machine with weight control, Volumetric. F. R. Clark and J. Aponovich. 2,645,447, July 14.
Film driving means in sound projectors. R. L. Moore and S. L. Pastor. 2,645,478, July 14.
Film guide structure for photographic cameras. R. Heldecke. 2,645,170, July 14.
Finger jointing press unit. H. H. Dedo. 2,645,257, July 14.
Fish lure. W. Schiller. 2,645,052, July 14.
Fishhook, Double-duty. C. T. Taylor. 2,645,054, July 14.

Fisherman's lounging seat. G. L. Wong. 2,645,275, July 14.
Fishing tackle with retrieving means combined therewith. A. A. Stofleth. 2,645,051, July 14.
Fishing winch, Removable drum. F. W. Rowe. 2,645,455, July 14.
Flashing illuminated sign. W. F. O'Gorman. 2,645,047, July 14.
Flexible piston ring. H. F. Prasse. 2,645,536, July 14.
Flint dispenser. W. R. Avis. 2,645,335, July 14.
Floodlight having sealed beam lamps focused to form a specific light pattern. H. E. Rutledge. 2,645,705, July 14.
Floor protecting plate. K. E. Zeidler. 2,645,167, July 14.
Flotation apparatus. S. G. Nordstrand. 2,645,350, July 14.
Flowmeter for gases. J. S. Senesky. 2,645,124, July 14.
Flush valve. A. B. Boyd. 2,644,952, July 14.
Flushing device. R. J. Chapman. 2,644,950, July 14.
Folding and stacking machine. V. V. Wood and E. B. Bigué. 2,645,476, July 14.
Forging machine, Drill bit. A. W. Mitchhart. 2,645,138, July 14.
Formaldehyde purification process. J. C. Walker and B. O. Heston. 2,645,665, July 14.
Formic acid, Manufacture of. A. G. Taylor and W. A. Caldwell. 2,645,661, July 14.
Fractional distillation. L. Kniel. 2,645,104, July 14.
Fractionation of oleiferous materials. E. M. B. Pramuk and F. H. MacLaren. 2,645,652, July 14.
Fracture nail inserter. A. E. Gallant, A. C. and R. F. Markkula. 2,645,220, July 14.
Frame: *See*—
  Bucksaw frame.
Free wheel mechanism. L. Robin. 2,645,319, July 14.
Fuel feeding apparatus, Magnetic. P. F. Rossmano. 2,645,279, July 14.
Fuel injector. J. D. Tucker. 2,645,182, July 14.
Fuel system, including diaphragm valves, Carburetor. S. P. Jones. 2,645,466, July 14.
Furnace door. O. L. Brann. 2,645,211, July 14.
Furniture, Article of. D. Rozaffy. 2,645,545, July 14.
Furniture, Convertible. A. B. and C. L. Culbertson. 2,645,273, July 14.
Game apparatus, Mechanical card. J. R. McMahon. 2,645,493, July 14.
Game apparatus, Shuffleboard type. L. A. Durant. 2,645,492, July 14.
Game, Baseball. T. Burgess. 2,645,489, July 14.
Game chip holder. W. B. Petzold. 2,645,352, July 14.
Game having energizable signals, Magnetic dart. H. J. Volman. 2,645,491, July 14.
Garment and sleeping bag, Combined. A. Gutmann. 2,644,948, July 14.
Garment bag having an extensible top support. J. J. Mintz and F. L. Muller. 2,645,541, July 14.
Garment, Foundation. B. Lewis. 2,644,945, July 14.
Garment support. H. D. Evans. 2,645,355, July 14.
Gas detector apparatus. C. Tiffany. 2,645,504, July 14.
Gas pressure regulator. J. S. Senesky. 2,645,062, July 14.
Gaseous petroleum fraction rich in hydrogen, Production of. J. N. Haresnape and S. Hesling. 2,645,562, July 14.
Gasoline treating. J. M. Cranmer. 2,645,603, July 14.
Gate: *See*—
  Automatic gate.
Gating trigger circuit. D. H. Pritchard. 2,645,713, July 14.
Gauge and guide, Sewing machine. G. M. Underwood. 2,645,194, July 14.
Gear: *See*—
  Aircraft multiwheel continuous tread landing gear.
Generator: *See*—
  Constant amplitude sweep generator.
  Steam generator.
Generator having a large voltage drop, Direct current electric. C. Volff and B. Bogatenkoff. 2,645,731, July 14.
Gluing apparatus with multiported applicator. I. H. Miller. 2,645,383, July 14.
Golf club box. W. G. Anderson, Jr. 2,645,353, July 14.
Governor head vibration dampener. B. E. Wheeler. 2,645,237, July 14.
Grain aspirating machine. R. B. Dodds. 2,645,345, July 14.
Greeting card, Novelty. A. Barker. 2,645,481, July 14.
Grille, Street gutter drainage. S. P. and G. R. Broussard. 2,645,302, July 14.
Grinding attachment for lathes. I. F. Walkey. 2,645,069, July 14.
Grip finder for golf clubs, Nonhook nonslice. J. R. Hara. 2,645,484, July 14.
Grouser. T. J. Hollenkamp. 2,645,532, July 14.
Guard for bathtubs and shower stalls. H. E. Jumper. 2,644,954, July 14.
Guide for shear knives, Adjustable. F. E. Munschauer. 2,645,287, July 14.
Gun sight. K. O. Haase. 2,645,017, July 14.
Gun sighting. A. J. Talone. 2,645,037, July 14.
Gyroscope caging mechanism. H. L. Brown. 2,645,129, July 14.
Hair curler. H. R. Bein, Sr. 2,645,233, July 14.
Hair curler. E. Q. and J. H. Moses. 2,645,232, July 14.
Hair drier. A. G. Hupp. 2,645,034, July 14.
Haloethylhydrocarbonoxycyclohexenes. J. A. Hogg. 2,645,666, July 14.
Handle: *See*—
  Razor handle.
Handle closure combination, Attachable and detachable. H. L. Eckles. 2,645,408, July 14.
Handle control for electrically driven lift trucks. O. C. G. and C. E. S. Wennberg. 2,645,297, July 14.
Hanger: *See*—
  Clothesline hanger.
Harness frame for looms. R. C. Haenny. 2,645,251, July 14.
Hat holder for hat boxes. P. E. Nelson. 2,645,333, July 14.
Headspacing adjusting device for firearms. C. W. Gilligan. 2,645,160, July 14.
Heat supply regulation of thermal power plants. P. Brunner. 2,645,083, July 14.
Heater: *See*—
  Unit electric heater.
Heating unit, Ammonia containing water. T. J. Digby. 2,645,209, July 14.
Hedge trimmer. J. E. Holmes. 2,645,010, July 14.
Hedge trimmer, Adjustable reel-type. F. J. Jones. 2,645,074, July 14.
High-temperature reactor. K. W. Stookey. 2,645,566, July 14.
Hinge, Locking. R. E. Ulrich. 2,645,446, July 14.
Hinge, Pole. H. E. Rutledge. 2,645,511, July 14.
Hingeless dental clamp. W. E. Mathison. 2,645,014, July 14.
Holder: *See*—
  Adjustable holder.
  File holder.
  Game chip holder.
  Line holder.
  Paint bucket holder.
  Spare tire holder.
  Universal joint bearing cup holder.
Holder. C. R. Bradley. 2,645,354, July 14.
Holder for electrically-operated toothbrushes and the like. G. B. Ubel. 2,644,972, July 14.
Holding device for fishing rods and fishing poles. J. L. Heistand. 2,645,440, July 14.
Hole boring rig. M. Yost. 2,645,458, July 14.
Hole digger. J. W. Houston. 2,645,457, July 14.
Hollow former for the manufacture of shoes. P. H. Gallan. 2,644,970, July 14.
Hollow structure. A. Amirikian. 2,645,114, July 14.
Horn, Signal. D. G. Stafford. 2,645,198, July 14.
Hunt suppressor. B. D. Lee. 2,645,747, July 14.
Hydraulic copying device for lathes. O. von Zelewsky. 2,645,084, July 14.
Hydraulic fluid motor-in-wheel. F. E. Hawkins, R. Lapsley, and G. L. Turner. 2,645,298, July 14.
Hydraulically fracturing well formation. V. Voorhees. 2,645,291, July 14.
Hydroaerial landing and launching means, including modus operandi. O. Brown. 2,645,436, July 44.
Hydrogen transfer process. H. Pines and V. N. Ipatieff. 2,645,669, July 14.
Hydroxyindazoles, Manufacture of. D. A. W. Adams, R. R. Davies, and R. H. Wilson. 2,645,642, July 14.
Icemaking apparatus, Continuous. A. G. Janos. 2,645,098, July 14.
Icémaking machine, Automatic. C. E. Ploeger. 2,645,095, July 14.
Ignition system and means for initiating combustion of fuel in a fuel burner. H. B., Sr. and H. B. Holthouse, Jr. 2,645,278, July 14.
Illumination apparatus for warning and signaling purposes. T. E. McDowell and A. C. Hechler. 2,645,761, July 14.
Image intensification apparatus. F. E. Williams. 2,645,721, July 14.
Improving the drying qualities of hydrocarbon co-polymer drying oils. A. E. Hoffman. 2,645,649, July 14.
Inclinometer. T. L. Mahone. 2,645,030, July 14.
Increasing speed of well logging, Method and apparatus for. R. E. Fearon. 2,645,723, July 14.
Independent release portion for air brake control valves. M. Pickert. 2,645,530, July 14.
Indicating condition of memory element, Means for. J. A. Rajchman and E. Stemme. 2,645,724, July 14.
Indicator: *See*—
  Axial indicator.
Inflammable composition containing red phosphorus. M. S. Silverstein. 2,645,571, July 14.
Injection device. E. R. Lawshe and J. H. Smoot. 2,645,223, July 14.
Ink fountain for printing presses. B. B. Perry. 2,645,176, July 14.
Inks, Printing. D. H. Praeg. 2,645,622, July 14.
Inserting a cloth insert into a rayon cake before fluid treatment. R. V. De Vault and R. J. Echerd, Jr. 2,645,554, July 14.
Instrument, Liquid level indicating. A. A. Miller. 2,645,125, July 14.
Instrument, Sheet metal layout. W. Altnether. 2,645,028, July 14.
Instrument, Thermal tooth testing. R. A. Posch. 2,645,097, July 14.
Instrument, Trammel and beam. J. M. Hart. 2,645,022, July 14.





Intelligence exchange system. E. M. S. McWhirter and F. G. Popp. 2,645,764, July 14.
Interrupted can end feed mechanism. R. E. Renard. 2,645,366, July 14.
Ionizing radiation movable detecting device. R. Chamimade. 2,645,722, July 14.
Ironing aid and textile refinishing composition. J. G. Wiegerink, Sr. 2,645,584, July 14.
Ironing stand with iron support, Portable. J. H. W. Lewis. 2,645,015, July 14.
Jack for oil wells, Auxiliary. I. C. Nourse. 2,645,454, July 14.
Jacket for jet injection ampoules. R. P. Scherer. 2,645,338, July 14.
Jar, Hydraulic. W. N. Sutliff. 2,645,459, July 14.
Jaw for wrenches, Replaceable. A. J. Matter. 2,645,146, July 14.
Jet combustion fuel. J. M. Godsey. 2,645,569, July 14.
Jet fuel containing t-butyl thiophene. J. M. Godsey. 2,645,568, July 14.
Jewel bearing and making same. A. Bulova. 2,645,078, July 14.
Jog feeder for books. W. B. Hildmann. 2,645,327, July 14.
Joint: *See*—
  Universal joint.
Joint assembly. J. H. Booth. 2,645,510, July 14.
Joint structure for metal tubing. E. C. Booth. 2,645,276, July 14.
Jumper, Baby. W. W. and L. W. Call. 2,645,271, July 14.
Justifying apparatus for use in typographical photocomposing machines. H. R. Freund. 2,645,168, July 14.
Kerf cutterhead mechanism for mining machines. A. L. Lee. 2,645,470, July 14.
Knife assembly for fruit slicers. V. Marasco. 2,645,262, July 14.
Knitting machine, Warp. F. Lambach. 2,645,106, July 14.
Lamp: *See*—
  Ornamental fluorescent stand lamp.
Laundry ironer rack. R. J. Herrcke. 2,645,364, July 14.
Laundry machine, Wobble plate. G. C. Fields. 2,645,111, July 14.
Lawn mower drive. J. J. Watts and M. A. Summerour. 2,645,300, July 14.
Leak detector for cans and the like. G. H. Bendix and C. R. Breden. 2,645,117, July 14.
Level, Mason's. J. W. Waddell. 2,645,018, July 14.
Lever, Circuit breaking operating. W. A. De Smidt and L. H. Matthias. 2,645,688, July 14.
Lignocellulose pressure molded article, Making. R. V. Williamson. 2,645,587, July 14.
Line holder. H. R. Rogant. 2,644,993, July 14.
Lining for centrifugal iron casting molds. J. Burchartz. 2,645,558, July 14.
Lining machine, Dishware. H. V. Schweitzer. 2,645,200, July 14.
Liquid dispenser. D. Hester. 2,645,388, July 14.
Lithograph-plate preparation. W. H. Wood. 2,645,578, July 14.
Load limiter. A. Van Ryan and W. R. Harry. 2,645,726, July 14.
Loading and unloading apparatus. J. V. Davis. 2,645,186, July 14.
Lock: *See*—
  Dead latching door lock.
  Door lock.
  Window lock.
Lock for containers. A. Kraus. 2,645,112, July 14.
Locking device for split-compressor type turbopower plants. W. H. Sens. 2,645,412, July 14.
Locking means, Cord. I. Lundstrom. 2,645,284 July 14.
Log shaping machine. E. Wilson. 2,645,253, July 14.
Low temperature food storage box structure with means for cooling machinery compartment. H. W. Bascom. 2,645,100, July 14.
Lubricant, Metal-working. W. C. Holmes. 2,645,614, July 14.
Lubricating bearings, Means for. D. G. Roos. 2,645,305, July 14.
Lubricating composition. D. E. Adelson and R. E. Thorl 2,645,613, July 14.
Machine for applying and sealing closures to bottles. J. S. Bozek and H. E. Weidanz. 2,645,399, July 14.
Machine for designing intersections. C. Beck-Meyer. 2,645,040, July 14.
Machine for injecting bacon slabs or the like. S. T. Moreland. 2,645,171, July 14.
Machine for packing tablets and similar articles. C. Nicolle. 2,645,070, July 14.
Machine for shaping the heel ends of shoes. W. L. Benedict, H. D. Goodnow, and F. Pulsifer. 2,644,968, July 14.
Machine for trimming lasted shoes. B. Jorgensen. 2,644,967, July 14.
Machine for verifying and checking perforated records. D. R. Platt, F. B. Porterfield, and C. D. Hicks. 2,645,122, July 14.
Machine for washing watch parts. F. C. Fisher. 2,645,236, July 14.
Magnet assembly, Permanent. N. S. Moreton. 2,645,745, July 14.
Magnetic recording and reproducing. T. E. Lynch. 2,645,682, July 14.
Mandrel, Expansible. G. Cozzo. 2,645,531, July 14.
Mannikin's head hair structure. L. Napolitan. 2,645,057, July 14.
Material disintegrating and distributing machine. R. H. Moss. 2,645,500, July 14.
Material handling apparatus. J. C. Broersma. 2,645,372, July 14.
Material spreading apparatus. E. A. Juzwiak and F. S. Ajero. 2,645,384, July 14.
Measuring apparatus, Temperature. A. J. Hornfeck. 2,645,126, July 14.
Measuring device for spray applicators in prevention of offset and the like. A. J. Jenner. 2,645,529, July 14.
Measuring instrument, Direction and velocity. R. L. Hundstad. 2,645,123, July 14.
Measuring system and apparatus, Potentiometric. A. Hansen, Jr. 2,645,748, July 14.
Meat-skinning machine. W. Stettler. 2,645,263, July 14.
Mechanical seal, Rotary. F. E. Payne. 2,645,508, July 14.
Mechanism for handling boards. R. C. Blair. 2,645,329, July 14.
Meter: *See*—
  Electric energy meter.
Method of and bath for electrolytic polishing. W. G. Axtell. 2,645,611, July 14.
Milk product for use in coffee or the like and producing same, Dried. C. A. Kempf and E. L. Blanchard. 2,645,579, July 14.
Mill: *See*—
  Portable boring mill.
Milling and the like machine tool. T. F. Eserkaln. 2,645,163, July 14.
Mirror, Adjustable antiglare rearvision. P. Bertell and G. A. Weingartner. 2,645,158, July 14.
Mirror and flashlight, Combined. C. R. Rowland. 2,645,706, July 14.
Mixing and dispensing valve. A. B. Segal. 2,645,246, July 14.
Mixing machine, Kitchen. J. F. R. Karlstrom. 2,645,465, July 14.
Moccasin. K. A. Stritter. 2,645,042, July 14.
Molded casing for electrical apparatus. T. M. Cole and P. M. Christenson. 2,645,693, July 14.
Molding for door coverings, Retainer. S. P. June. 2,644,977, July 14.
Mortise chiseling templet. W. D. Smith. 2,645,029, July 14.
Motor control system, Liquid level. D. Labinó and V. G. Politsch. 2,645,749, July 14.
Mounting: *See*—
  Door mounting.
  Mower mounting.
Mounting device for engine accessories. I. Kalikow. 2,645,438, July 14.
Mounting for warning lights, Shockproof. A. C. Hechler. 2,645,762, July 14.
Mounting means for manifold machine carbon paper. L. A. Pettt. 2,645,325, July 14.
Mounting plate for fixtures employing elongated tubular lamps. R. G. Marchisio. 2,645,708, July 14.
Mounting the electrode system for electric discharge tubes. L. Klinkert, G. C. Antonie, M. Moubis, and J. L. H. Jonker. 2,644,098, July 14.
Mower mounting. J. J. Dalglish and R. L. Holm. 2,645,073, July 14.
Mowing machine divider plate with divider rod attached thereto. J. J. Dooman. 2,645 076, July 14.
Multiple sheet feeder. W. E. Mitchell. 2,645,479, July 14.
Multiplication control mechanism for calculating machines. F. W. Pfleger. 2,645,423, July 14.
Multiposition switch. G. M. Neff. 2,645,685, July 14.
Needle card. W. R. Toy. 2,645,339, July 14.
Neon shorts tester, Low voltage. M. Pitinsky. 2,645,754, July 14.
Nickel-alumina-silica catalysts and their preparation. W. J. Paterson. 2,645,620, July 14.
Noise discriminating system. H. F. Olson and J. Preston. 2,645,684, July 14.
Nonracing interrupting switch. W. C. Gregory.. 2,645,698, July 14.
Nozzle construction for atomizing a liquid material by an atomizing gas. C. C. Walters. 2,645,527, July 14.
Nozzle device, Air. T. L. Thorsen. 2,645,528, July 14.
Oil flow control for dry sump pumps. R. L. Dills. 2,645,102, July 14.
Oil seal, Self contained. R. O. Isenbarger. 2,645,507, July 14.
Oilseed flakes, Production of. A. L. Ayers and C. R. Scott. 2,645,650, July 14.
One revolution high-speed cylinder printing press. A. Buttner. 2,645,175, July 14.
Operating jet propulsion motors. T. F. Doumani and C. S. Coe. 2,645,079, July 14.
Optically true support for photographic film, copy, or other material. B. R. Halpern. 2,645,153, July 14.
Ornamental fluorescent stand lamp. M. C. Thorstensen. 2,645,709, July 14.
Ornamenting articles. B. M. Brown. 2,645,049, July 14.
Pad. H. E. Hitchens. 2,644,963, July 14.
Pad for windshields, Cleaning. J. W. Anderson. 2,644,974, July 14.
Paddle for disciplining children. G. F. Jorgenson. 2,645,488, July 14.
Paint bucket holder. E. Pelletier. 2,645,443, July 14.

Pan for flush tanks, Sweat. E. F. Matthews. 2,644,955, July 14.
Panoramic receiver. R. Hardy. 2,645,711, July 14.
Paper machinery. S. A. Staege and A. G. Gibson. 2,645,346, July 14.
Paper pulp foam inhibitor. R. L. Mayhew and J. M. Cross. 2,645,617, July 14.
Pattern controlled variable beat-up and pile warp feed mechanisms. L. O. Moberg. 2,645,250, July 14.
Pebble heat exchange conversion process. H. J. Hepp. 2,645,606, July 14.
Pen, Fountain. R. W. Randolph. 2,645,205, July 14.
Pen, Writing. D. F. Mohns. 2,645,206, July 14.
Pencil lead. G. Loy. 2,645,582, July 14.
Pendulum construction. H. F. Franke. 2,645,729, July 14.
Penicillin salts of N-methyl-(2-hydroxy-1,2-diphenylethyl)-amine. V. V. Young. 2,645,638, July 14.
Perambulator. C. and D. J. Collins. 2,645,502, July 14.
Percussion drilling tool. R. Bassinger. 2,645,207, July 14.
Pest control chemicals. R. G. Campbell. 2,645,592, July 14.
Phenthiazine derivatives. P. Charpentier. 2,645,640, July 14.
Phenylol silane-formaldehyde type resin. J. L. Speier, Jr. 2,645,630, July 14.
Phonograph mechanism, Automatic. J. M. Baxter. 2,645,496, July 14.
Phonograph spindle aperture reducer. W. H. Myers. 2,645,499, July 14.
Photoelectric inspecting and sorting apparatus. C. T. Nemir. 2,645,343, July 14.
Photographic objective comprising three members separated by airspaces, Five-lens. A. W. Tronnier. 2,645,156, July 14.
Photographic objective, Five-lens. A. W. Tronnier. 2,645,154, July 14.
Photographic objective of high light-transmitting capacity of the Gauss type. A. W. Tronnier. 2,645,155, July 14.
Photographic objective of the triplet type. H. Lowenthal. 2,645,157, July 14.
Phthalocyanine coloring matters, Producing. H. B. Gottlieb. 2,645,643, July 14.
Pickup arm having a rotatable cartridge with two needles. W. Miller and J. L. D. Morrison. 2,645,498, July 14.
Picnic box. N. B. Martin and E. K. Lotthammer. 2,645,332, July 14.
Pipe flange connection. R. P. Sturgis. 2,645,506, July 14.
Pipe wrench and the like, Adjustable self-closing. J. V. Larson. 2,645,145, July 14.
Pipette control means. O. Maisch. 2,645,245, July 14.
Pitch propeller, Variable. E. M. Douthett. 2,645,294, July 14.
Plate type heat exchanger. S. Holm. 2,645,462, July 14.
Pliers, Spark plug adjusting. O. Schwenzfeier. 2,645,142, July 14.
Pocket attachment, Clip retaining. W. Albro. 2,644,991, July 14.
Polyalkylated aromatic hydrocarbons, Production of. H. Pines and V. N. Ipatieff. 2,645,670, July 14.
Portable boring mill. M. Beauloye, H. Beauloye, Jr., and A. F. Beauloye. 2,645,139, July 14.
Portable dispensing tank. C. W. Lattman. 2,645,381, July 14.
Portable pressing table. O. Frej. 2,645,046, July 14.
Position control apparatus for beet harvesters. L. R. McRobert. 2,645,072, July 14.
Post driving apparatus. A. H. Nelson. 2,645,453, July 14.
Posting stand. S. Segal. 2,645,538, July 14.
Power-actuated apparatus for setting pins. T. E. Mead. 2,645,485, July 14.
Power loader. F. W. Allan. 2,645,369, July 14.
Power transmission belt, Reinforced. T. F. E. Fuchsbocher. 2,645,132, July 14.
Precision deflecting yoke. F. Wendzel. 2,645,733, July 14.
Press: *See*—
  One revolution high-speed cylinder printing press.
Press for bookbinding, Nipping. L. G. Kitcat. 2,644,965, July 14.
Presser, Trousers. W. G. Raper. 2,645,389, July 14.
Pressure control device. J. A. Drake. 2,645,240, July 14.
Pressurized bearing. H. I. Becker. 2,645,534, July 14.
Printing apparatus, Record controlled. H. P. Luhn and R. L. Johnson. 2,645,323, July 14.
Printing machine. M. Spiro. 2,645,179, July 14.
Printing mechanism for calculating machines, Item and total. R. L. Gourdon. 2,645,419, July 14.
Printing plate and the embossing thereof, Plastic. G. C. Brainard and J. H. Gruver. 2,645,178, July 14.
Producing a fluffy chocolate confection. P. E. Schultz. 2,645,580, July 14.
Producing brass powder. J. E. Drapeau, Jr. and N. B. Barber, Jr. 2,645,573, July 14.
Producing paper bags. W. S. Blizard. 2,645,166, July 14.
Producing synthetic mica. J. H. Waggoner. 2,645,060, July 14.
Propeller blade, Self-adjusting. R. Doussain, R. Bousson, and L. Perrier. 2,645,295, July 14.
Proportioning divider. M. T. Dierkes. 2,645,021, July 14.
Pull and brake arrangement for tricycles, Combination mother's. D. J. Durand. 2,645,505, July 14.
Pulse distributor, including electric discharge devices. A. H. Reeves. 2,645,680, July 14.
Pulsed radio remote-control system. E. Labin. 2,645,771, July 14.
Pump: *See*
  Air pump.
  Starter motor-driven hydraulic pump.
Pump and motor hydraulic transmission, Rotary. J. A. Gerhold. 2,645,085, July 14.
Pump and turbine transmission, Reversible hydraulic. G. H. Carter. 2,645,086, July 14.
Pumping apparatus. C. A. Lowe. 2,645,184, July 14.
Purifying wood pulp. S. C. Bate. 2,645,576, July 14.
Purifying wood pulp. S. C. Bate, F. G. Peach, and W. A. Rogerson. 2,645,577, July 14.
Quaternary ammonium naphthenate and making the same. A. M. Erskine. 2,645,593, July 14.
Rack: *See*—
  Child's garment rack.  Laundry ironer rack.
Rack for vehicles, Clothes. E. H. Colman. 2,645,390, July 14.
Radar system, Continuous wave. W. V. Roberts. 2,645,769, July 14.
Radiator, Focusing ultrasonic. G. W. Willard. 2,645,727, July 14.
Radio system, Time division multiplex. H. M. Veaux. 2,645,770, July 14.
Radio transmission and carrier wave modulation. J. Hartz. 2,645,710, July 14.
Rail fastening means. C. Naud. 2,645,427, July 14.
Razor blade hand plane. E. B. Ackland. 2,645,259, July 14.
Razor handle. H. K. Cohen. 2,645,009, July 14.
Reamer, Wedge-level. V. Thompson. 2,645,456, July 14.
Rear viewing system for vehicles. R. N. Darroch. 2,645,159, July 14.
Receptacle: *See*—
  Refuse packaging receptacle.  Smoker's ash receptacle.
  Tubular receptacle.
Record changer head and tone arm assembly. W. Miller and J. L. D. Morrison. 2,645,497, July 14.
Recorder, Magnetic sound. E. Keller. 2,645,404, July 14.
Recorder, Multiple-lead electrocardiograph. G. Gorham. 2,645,550, July 14.
Recorder, Power-time. J. H. Andresen, Jr. 2,645,118, July 14.
Recording and translating device. J. V. Nelson. 2,645,495, July 14.
Recording machine, Time. A. L. Sprecker. 2,645,551, July 14.
Recording mechanism, True negative total. H. M. Fleming. 2,645,417, July 14.
Recovery and purification of oil soluble oxygenated compounds. F. G. Pearce. 2,645,655, July 14.
Recovery of fatty acids. E. N. Mortenson. 2,645,651, July 14.
Recovery of selenium. D. J. Hadley and R. Heap. 2,645,664, July 14.
Reducing and enlarging machine for draftsman and designers. C. H. Wrobel. 2,645,016, July 14.
Reduction of aromatic nitrogen compounds. A. W. Sogn. 2,645,636, July 14.
Reel arm adapter. E. A. Beacom, V. N. Sacklyn, and A. Talamanco. 2,645,430, July 14.
Reforming and catalysts therefor. W. H. Lang and C. L. Gutzeit. 2,645,605, July 14.
Refrigeration apparatus. G. S. McCloy. 2,645,094, July 14.
Refuse packaging receptacle. R. C. Mattson. 2,645,071, July 14.
Regenerating electrolytic polishing solutions. H. F. Walton. 2,645,635, July 14.
Regulator: *See*—
  Gas pressure regulator.
Regulator and cutoff with auxiliary manual control, Pressure. E. Henkel and H. G. Nehrbas. 2,645,061, July 14.
Reinforced rubber structure and method of treating nylon yarn for use in making same. F. H. Müller and P. E. Johnson. 2,645,266, July 14.
Reinforcing of concrete piles. W. P. Kinneman and W. N. Riker. 2,645,090, July 14.
Removable luggage carrier. O. Lecanu-Deschamps. 2,645,391, July 14.
Removing the casings of link sausages and structurally like products. R. A. Schneider. 2,644,982, July 14.
Resinous copolymers of nuclearly polysubstituted isopropenyl benzenes. T. A. te Grotenhuis and G. H. Swart. 2,645,632, July 14.
Ring: *See*—
  Flexible piston ring.
Roll separator. F. Hunsalk. 2,645,189, July 14.
Roof structure, Trailer coach. V. J. Judson. 2,645,521, July 14.
Sacrificial anode. R. D. Taylor. 2,645,612, July 14.





Safety control device. J. H. Thornbery. 2,645,238, July 14.
Safety control for engine governors. R. C. Barnes. 2,645,474, July 14.
Safety control system for mines. N. L. Stephenson. 2,645,330, July 14.
Saw, Flying hot. W. Rodder. 2,645,001, July 14.
Saw frame structure for releasably holding and tensioning saw blades. M. S. Swanstrom. 2,645,261, July 14.
Scaffold, Rolling. N. H. Rector. 2,645,531, July 14.
Scale, Combination linear. D. E. Jones. 2,645,019, July 14.
Scissor and knife sharpener, Combined. P. W. Andrews. 2,645,066, July 14.
Scoop for separable fasteners, Blunt nose double-acting. L. H. Morin. 2,644,995, July 14.
Screw stud or fastener and assembly utilizing same. W. I. Staaf. 2,645,317, July 14.
Sealing device, Bag. M. Mitchko. 2,645,514, July 14.
Seat: *See*—
  Fisherman's lounging seat.  Sliding counter seat.
Sediment collecting means for washing machines and the like. T. R. Smith. 2,645,109, July 14.
Seed planter, Precision. H. Wechsler. 2,645,385, July 14.
Semiconductor of mixed nickel, manganese, and iron oxides. F. J. Morin. 2,645,700, July 14.
Separating wax from wax-oil mixtures. H. C. Myers, A. O. Pukkila, and T. A. Petry. 2,645,597, July 14.
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Sheet delivery system for presses. H. R. Long. 2,645,480, July 14.
Shelf assembly. W. R. Jewell. 2,645,359, July 14.
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Snatch roller, Removable. J. Guadagna. 2,645,187, July 14.
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Sound filter for microphones and telephones. M. de Vries. 2,645,301, July 14.
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Transfer device for box wrapping machines. W. J. Ilnessler. 2,645,365, July 14.
Transformer for the transmission of electric impulses, High-frequency. H. G. Bruijning. 2,645,746, July 14.
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Tube extrusion. N. H. Curtiss. 2,644,983, July 14.
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Tube with electron multiplying and selecting electrodes, Storage. J. A. Rajchman. 2,645,734, July 14.
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Tuning control for radio apparatus and the like, Automatic. R. W. May and R. S. Pyle. 2,645,321, July 14.
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Universal joint. N. P. Redson. 2,645,105, July 14.
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Valve means, Fluid. S. C. Chessman. 2,645,450, July 14.
Valve spring keeper inserter, Split. J. Vold. 2,645,005, July 14.
Valve structure. J. N. Gladden. 2,645,451, July 14.
Valve system for hydraulic master cylinders, Skirt. B. Neumann. 2,645,087, July 14.
Valve with head space providing means, Filling. C. E. Kerr. 2,645,401, July 14.
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Vibrating machine for treating humans. P. Bertholin. 2,645,219, July 14.
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Voltage supply system, Variable. H. L. Miller. 2,645,725, July 14.
Vortex separator for pulp. J. Baxter, Jr. 2,645,347, July 14.
Waling members for sectionalized structure providing a common rectilinear surface. R. W. Rumble. 2,644,996, July 14.
Wall form. F. Billings. 2,611,997, July 14.
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Warning light control system, Railway. A. C. Hechler. 2,645,763 July 14.
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Warp beam. C. P. Bergstrom. 2,645,433, July 14.
Washing machine and centrifugal extractor, Combined. T. R. Smith. 2,645,107, July 14.
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Wedge nut and structure employing wedge nuts. P. Rosenberg. 2,645,264, July 14.
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Well caliper. H. J. Eastman and J. G. Jackson. 2,645,027, July 14.
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X ray diffraction device. S. T. Gross. 2,645,720, July 14.

# CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number.

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## CLASSIFICATION OF DESIGNS


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U. S. GOVERNMENT PRINTING OFFICE 0—1953

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

EUREKA WILLIAMS CORP.

*v.*

KRES-KNO OIL BURNER MFG. CO., INC.

*No. 5916. Decided February 6, 1953. Petition for rehearing denied April 10, 1953*

[202 F.2d 763; 97 USPQ 138]

TRADE-MARKS—CONFUSION OF THE PUBLIC—"POW-R-MATIC" NOT CONFUSINGLY SIMILAR TO "OIL-O-MATIC" OR "AIR-O-MATIC."

The decision of the Commissioner holding that the concurrent use of appellee's mark "Pow-R-Matic" and appellant's marks "Oil-O-Matic" and "Air-O-Matic" is not likely to cause confusion in trade when used on similar goods is affirmed.

APPEAL from Patent Office. T-M Opposition No. 27,540.

AFFIRMED.

*E. J. Balluff* (*Francis D. Thomas* and *Wm. Wallace Cochran* of counsel) for appellant.

*Herbert J. Jacobi* for appellee.

WORLEY, *J.*:

This is an appeal from the decision of the Commissioner of Patents, speaking through the Examiner-in-Chief, in an opposition proceeding brought under the Trade-Mark Act of 1905.

Appellee, Kres-Kno Oil Burner Manufacturing Company, Inc., hereinafter referred to as applicant, filed its application in the United States Patent Office for registration of the mark "Pow-R-Matic" for use on oil burners for domestic and industrial use, on April 14, 1947, claiming use of that mark since April 12, 1939. Appellant, Eureka Williams Corporation, hereinafter referred to as opposer, based its opposition to said application on prior use of the trade-mark "Oil-O-Matic" for use on liquid fuel burning devices, automatic electrically controlled and operated fuel heating systems, including the electrically operated controls therefor, and domestic water heaters; and also on the registered mark "Air-O-Matic" for use on air conditioning systems, and heating, cooling, and dehumidifying units for air conditioning systems and parts thereof.

It is conceded that opposer is prior in use of its mark. The only testimony taken was on its behalf.

It appears that the sales of Oil-O-Matic oil burners are of an extensive nature in this country as well as in numerous foreign countries; that substantial sums of money have been and are being expended in advertising that product; and that the sales of opposer's Air-O-Matic products, at the time testimony was taken, have been made only in four States and the District of Columbia.

The Examiner of Interferences, in sustaining the opposition, stated "since the goods here involved manifestly are closely related, if not in part competitive, goods of the same descriptive properties, the only remaining statutory issue to be determined herein is whether or not the marks of the parties bear such near resemblance as to be likely, when applied to such goods, to cause confusion in trade," and held that the concurrent use of the marks would be reasonably likely to create confusion in trade.

In reaching that conclusion, the Examiner relied on the case of *Roy Cross* v. *Williams Oil-O-Matic Heating Corporation*, 18 CCPA (Patents) 1192, 48 F.2d 659, 9 USPQ 146, where the marks "Coal-O-Matic" and "Oil-O-Matic" used on fuel burning devices, were held to be confusingly similar. He also took a similar view of two decisions of the Commissioner of Patents[1] in which the marks "Insta-Matic" and "Oil-O-Matic" and "Scald-O-Matic" and "Oil-O-Matic," used on goods of the same class, were held, respectively, to be confusingly similar. It was his belief that the facts in those cases were sufficiently similar to the instant case as to be controlling.

Upon appeal, the Examiner-in-Chief reversed the decision of the Examiner of Interferences, basing such action on the authority of the decision of the Commissioner in the case of *Eureka Williams Corporation* v. *Willoughby Machine and Tool Co.*, 636 O. G. 1092, 86 USPQ 170, where it was held that the marks "Thermomatic" and "Oil-O-Matic" were not confusingly similar. He also relied on the authority of this court's decisions in the cases of *Williams Oil-O-Matic Heating Corp.* v. *Edward P. Bliss, Jr.*, 19 CCPA (Patents) 821, 54 F.2d 430, 12 USPQ 43, and *Syncromatic Air Conditioning Corp.* v. *Williams Oil-O-Matic Heating Corp.*, 27 CCPA (Patents) 1010, 109 F.2d 784, 44 USPQ 598. In those cases the marks "Thermatic" and "Oil-O-Matic" and "Syn-

[1] *Williams Oil-O-Matic Heating Corporation* v. *Geo. D. Roper Corporation*, 17 USPQ 177, and *Eureka Williams Corporation* v. *Coan*, 79 USPQ 354.

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cromatic" and "Air-O-Matic," respectively, were held not to be confusingly similar.

It is to be noted, however, that the decision of the Commissioner in the *Willoughby* case, supra, was in turn reversed by a divided opinion of this court. *Eureka Williams Corporation* v. *Willoughby Machine and Tool Company*, 39 CCPA (Patents) 832, 194 F.2d 543, 93 USPQ 12.

While in that case two members of this court disagreed with the conclusion of the majority that the mark "Thermomatic" was confusingly similar to the mark "Oil-O-Matic," there was no disagreement over the following language found in that opinion:

> This court has repeatedly held that because of the difference of facts in various cited cases, such cases are without controlling value here, except as to the principles of trade-mark law enunciated or exemplified therein. On the latter basis, however, this and other Federal courts have always had, and will continue to have, recourse to such citations.

It is our belief that the facts in the several cases cited are not applicable to those found herein and, consequently, are not controlling.

The only issue involved is whether the concurrent use of appellee's mark "Pow-R-Matic" and appellant's marks "Oil-O-Matic" and "Air-O-Matic" on the respective goods of the parties are likely to cause confusion within the purview of section 5 of the Trade-Mark Act of 1905, the pertinent portion of which reads:

> • • • *Provided*, That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered; • • •

While it is true that the marks "Pow-R-Matic" and "Oil-O-Matic" are hyphenated, possess the same suffixes, contain the same number of syllables and, indeed, the same number of letters, it is our opinion that the prefixes are so different in spelling, in sound, in appearance, and in meaning that, when viewed in their entireties, as they must be viewed, the concurrent use of such marks would not be likely to cause confusion in trade or deception in the mind of the public as to the origin of the involved products.

We are also of the opinion the same conclusion should be reached relative to the marks "Pow-R-Matic" and "Air-O-Matic," especially in view of the fact that those marks are applied to goods which are not as closely related as are the goods to which the marks "Pow-R-Matic" and "Oil-O-Matic" are applied.

For the foregoing reasons the decision of the Commissioner is hereby affirmed.

AFFIRMED.

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O'CONNELL, *J.* (dissenting):

The application to register "Pow-R-Matic" for appellee's use in the sale of automatically operated oil burners was filed and pending in the Patent Office prior to July 5, 1947. The opposition proceedings were contested there subsequent to that date and determined May 8, 1951, 89 USPQ 334. The appeal taken here was from that decision and the conclusion of the majority is clearly erroneous either under the standards of conduct prescribed by the act of 1905 or the Lanham Act of 1946. *Steele* v. *Bulova Watch Co.*, 344 U. S. 280, 287, 95 USPQ 391; *Eureka Williams Corp.* v. *Willoughby Machine Tool Co.*, 39 CCPA (Patents) 832, 194 F.2d 543, 93 USPQ 12; *Safeway Stores* v. *Dunnell*, 172 F.2d 649, 80 USPQ 115; *Miles Shoes, Inc.* v. *R. H. Macy & Co., Inc.*, 199 F.2d 602; *Junior Guild Frocks, Inc.* v. *Page & Dixon Drug Co. Inc.*, 79 USPQ 41.

Judge Hatfield in delivering the opinion here for a unanimous court in the recent "Kwixtart" trade-mark case for electric storage batteries observed that the test for descriptiveness under the act of 1905 is the same prohibitory test provided for by the act of 1946. *Andrew J. McPartland, Inc.* v. *Montgomery Ward & Co., Inc.*, 35 CCPA (Patents) 802, 164 F.2d 603, 76 USPQ 97, certiorari denied, 333 U. S. 875. See also the progress report by Derenberg entitled "The Third Year of Administration of the Lanham Trade-Mark Act of 1946," 86 USPQ, No. 10, Part II, 1—24, at page 3.

Judge Hatfield in the concurring opinion of this court in the case of *The Bon Ami Co.* v. *McKesson & Robbins, Inc.*, 25 CCPA (Patents) 826, 93 F.2d 915, 36 USPQ 260, previously and sharply had admonished against the piracy of registered trade-marks made valuable and outstanding by extensive advertising and long continuous use:

> If all that a newcomer in the field need do in order to avoid the charge of confusing similarity is to select a word descriptive of his goods and combine it with a word which is the dominant feature of a registered trade-mark so that the borrowed word becomes the dominant feature of his mark, the registered trade-mark, made valuable and outstanding by extensive advertising and use, soon becomes of little value, and, of course, each of the subsequent imitating trade-marks (and there would be many) is of value only to the extent that its users are trading on the good will of the owner of the original registered trade-mark.

Substantial proof of the judicial wisdom of Judge Hatfield's observation and his prophetic vision in denying the applicant's registration in the cited case is found in these proceedings on appeal where it appears as a matter of record that within a period of less than one year, appellant has thrice sought to curb a band of newcomers from using an imitating trade-mark for the obvious purpose of trading on its good will and reputation. *Eureka Williams Corp.* v. *Willoughby Machine Tool Co.*, involving "Thermomatic" and "Oil-O-Matic," 39 CCPA (Patents) 832, 194 F.2d 543, 93 USPQ 12; *Eureka Williams Corp.* v. *McCorquodale*, involving "Hotomatic" and "Oil-O-Matic," Appeal No. 5917, decided January 14, 1953, 40 CCPA (Patents) —, — F.2d —, — USPQ —; and the case at bar.

Why the newcomers in those three cases, with the literature and the fanciful coinage of words of the whole world at their disposal, should have chosen a mark blatantly imitative of the mark long employed on a worldwide basis by appellant, instead of adopting some other distinctive means of its own to identify their goods, is hard to understand. The only basis for such action of course was the deliberate purpose to obtain a definite advantage from the high standing in the trade which appellant's products have developed and enjoyed for generations.



This is particularly true in the case at bar where appellee has appropriated the dominant features of appellant's marks, their hyphenated style, their form of capitalization, and their syllabication, thereby producing a device designed to trap the unwary and uninformed through the false suggestion of a connection with appellant's renowned enterprises and products.

Chief Judge Garrett, delivering the opinion for a unanimous court in *Roy Cross* v. *Williams Oil-O-Matic Heating Corp.*, 38 CCPA (Patents) 1102, 48 F.2d 659, 9 USPQ 146, which sustained appellant's opposition on the ground that the newcomer's mark "Coal-O-Matic" was confusingly similar to the previously registered "Oil-O-Matic" held that in such a case "the issue is not whether oil and coal are of the same descriptive properties, but whether the devices that feed them into the furnace are."

The case at bar discloses that the word "Power" is descriptive not only of the dominant characteristic of appellant's device but also of all such devices owned by appellee and others which feed oil into a furnace. The term falls squarely within the prohibitory provisions of the statute as hereinbefore described in the excerpt from the opinion of Judge Hatfield. See also *Standard Paint Co.* v. *Trinidad Asph. Co.*, 220 U. S. 446, 453.

The instant case is likewise on all fours with the principles laid down by the majority in *Willoughby*, supra, wherein Judges Johnson and Worley dissented without opinion. The decision in that case contains nothing not completely orthodox in accordance with established principles of trade-mark law, all of which were clearly and effectively presented by eminent counsel. The court there defined the rule quoted and now approved by the majority here to the effect:

> This court has repeatedly held that because of the difference of facts in various cited cases, such cases are without controlling value here, *except as to the principles of trade-mark law enunciated or exemplified therein. On the latter basis, however, this and other Federal courts have always had, and will continue to have, recourse to such citations.* [Italics supplied.]

The validity of the great mass of accepted trade-mark law as disclosed in decisional authority is a priceless heritage. In that respect and in the absence of intervening precedent or enactment, the past is prologue. The rule hereinbefore quoted and italicized has been relied upon for generations by the bench and bar. For the former, the rule has served as a guiding light for the members of the judiciary in their deliberations; and for the members of the bar, the rule has served as a blue print upon which to rely in the advisory guidance of clients and as the basis of their position before the court in the presentation of argument.

We have on occasions not infrequently held, however, that prior decisions of this and other courts in trade-mark litigation are of little value; and that decisions with respect to the question of the confusing similarity of trade-marks is largely a matter to be resolved on the personal opinion residing in and exercised by the judge or judges before whom the matter is submitted for decision. E. g. *Kanmak Textiles, Inc.* v. *Carnac, Inc.*, 38 CCPA (Patents) 1148, 189 F.2d 1006, 90 USPQ 105; *United-Carr Fastener Corp.* v. *Capewell Mfg. Co.*, 38 CCPA (Patents) 1153, 189 F.2d 1000, 90 USPQ 298.

In other words, we have apparently shifted our position in trade-mark litigation from time to time from a logical to a psychological basis, with the result that in one instance we have overruled the previous judgment of our court where the marks and goods in a subsequent suit were identical with those of a previous case; and in a series of other cases we have authorized the registration of identical marks because, as noted, the goods of the newcomer were not precisely the same as those upon which widely-advertised and long established marks had been previously used. See cases cited in my dissenting opinion in *Eureka Williams Corp.* v. *McCorquodale*, supra.

The Supreme Court "for want of jurisdiction" denies petitions for the writ of certiorari to review judgments of this court in matters relating to patents and trade-marks. *McBride* v. *People*, 311 U. S. 649. Compare, *Beckwith* v. *Commr. of Patents*, 252 U. S. 538, and *Baldwin Co.* v. *Howard Co.*, 256 U. S. 35. Accordingly, there is no higher court to determine whether our procedure in these matters is right or wrong.

It is my opinion, however, that there is no justification whatever for authorizing the registration of the applicant's mark here in issue and thereby adding to the confusion already existing for the purchasing public with respect to the involved merchandise.

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## U. S. Court of Customs and Patent Appeals

BONNE BELL, INC. v. LANOLIN PLUS COSMETICS, INC.

*No. 5924. Decided March 11, 1953*

(202 F.2d 790; 97 USPQ 147)

1. TRADE-MARKS—DESCRIPTIVENESS—MARK DESCRIPTIVE OF CLASS OF PURCHASERS NOT BARRED BY STATUTE.

   *Held* that, while there may be cases where the "class of purchasers" of an article might well be considered along with other factors in determining whether a mark is descriptive of the character or quality of the goods, to permit such a finding (that the mark is descriptive of the class of purchasers) to control the decision or predominate in the reasoning applied is going far beyond even a most liberal expansion of the statute.

2. SAME—DESCRIPTIVENESS—"PLUS 30."

   *Held* that the term "Plus 30" does not describe face creams or any characteristic or quality thereof and that the ordinary purchaser upon encountering the term "Plus 30" on a container of face cream would not conclude that the mark signified a face cream for use by women over the age of thirty.

APPEAL from the Patent Office. Opposition No. 28,431.

REVERSED.

*Bates, Teare & McBean* (*Albert R. Teare* of counsel) for appellant.

*James R. McKnight* and *Robert C. Comstock* for appellee.

COLE, *J.*:

Appellant herein applied for registration of the mark "Plus 30," establishing use thereof since 1944, and alleged said mark to be a fanciful designation, arbitrarily selected. The appellee-opposer, a competitor of the applicant dealing in similar goods, urges that the mark is descriptive of the goods in question and consequently alleges that registration of applicant's mark would be injurious to opposer's business interests.

The Commissioner of Patents, affirming the decision of the Examiner of Trade Mark Interferences, held that "Plus 30," as applied to cosmetics, and more particularly to face creams, was descriptive and hence not registrable within the meaning of the Trade-Mark Act of 1905. This is an appeal from that decision.

The notice of opposition contained eight grounds, number eight being the only one upon which, we assume, the reasons for the decision being reviewed here were intended to apply. It reads:

> Opposer alleges that applicant was not entitled to the use or registration of the mark in application Serial No. 472,499 at the time of its application for registration thereof because the mark is *descriptive of the goods*. [Italics ours.]

It will be noted that not a word is said in the ground assigned about "Plus 30" being descriptive of a class of purchasers for whom such goods are intended. Some acceptable construction of the involved statute by recognized authority must be found to exist in order to extend or expand the statutory limitation, i. e., "descriptive of the goods" to prohibit the registration of a mark that is descriptive of the class to whom sold. This is the first time we have been called upon to interpret the same, but the Patent Office has previously done so and cited its reasoning therein as sufficient to inject into the instant case, in a most decisive fashion, that a mark is to be rejected under the law cited if it is descriptive of the class to whom sold.

In denying registration, the Examiner of Interferences said:

> • • • it is well settled that a mark is descriptive not only if it describes the characteristics, uses, or functions of the goods with which used, but also if it describes *the class of purchasers for whom such goods are intended*. • • • [Italics ours.]
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> • • • • • • • •
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> • • • In determining whether or not a mark is descriptive, it must be considered in the light of its significance to the purchasers of the goods with which it is used, and the Examiner is clearly of the opinion that the notation "Plus 30" would indicate to purchasers that the product is particularly designed for use by women over thirty years of age. • • •.

In support of this ruling, the Examiner cited as authority *Ex parte Roscnau Brothers*, 69 USPQ 18 and *Ex parte Miss Seventeen Foundation Co.*, 76 USPQ 616, both cases having been decided by the tribunals of the Patent Office. Suffice it to say, the Patent Office has held, and adheres to such finding, that a mark is descriptive if it, among other things, describes a class of purchasers for whom the goods in question are intended.

[1] We can conceive of cases where the "class of purchasers" of an article might well be considered along with other factors in determining, as the statute defines, the character or quality of goods. But to permit such a finding or belief to be, if not all controlling in its decision, certainly predominating in the reason applied, as was done in this case, is going far beyond even a most liberal expansion of the statute and to an extent we cannot approve.

The application of such procedure appeared to be easy in the *Roscnau* case, supra, and evidently accounts for the use thereof in that decision. Such is clearly not the case here. It is well to read at this point just what the Assistant Commissioner said:

> The sole remaining question considered by the Examiner relates to opposer's allegation of the descriptiveness of the applicant's mark. While opposer has no right to contest the applicant's right of registration of its mark, as already held, the Examiner considered the question, stating that the applicant's mark in order to be descriptive need not describe only the characteristics, uses or functions of the goods, but must be held descriptive if it describes a class of purchasers for whom such goods are intended. He considered it clear from the record of this case, and I think properly so, that the applicant's product is intended primarily to be used by women over thirty years of age as an aid in restoring youthful appearance to the skin and for that reason the mark "PLUS 30" is descriptive of a class of purchasers of applicant's goods. • • •

The Trade-Mark Act of 1905 [section 5(b)] in clear, concise, and certain language sets forth the fundamental test of descriptiveness as follows:

> • • • no mark which consists • • • merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods • • • shall be registered under the terms of this act.

It is thus readily apparent that the descriptive proviso of section 5(b) of the act of 1905 applies to marks which either describe the goods or their character or quality. The law was the same prior to the passage of the act of 1905. In *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, it was said:

> It was settled long prior to the Trade-Mark Registration Act that the law would not secure to any person the exclusive use of a trade-mark consisting merely of *words descriptive of the qualities, ingredients or characteristics of an article of trade*. This for the reason that the function of a trade-mark is to point distinctively, either by its own meaning or by association, to the origin or ownership of the wares to which it is applied, and words merely descriptive of qualities, ingredients or characteristics, when used alone, do not do this. • • • [Italics ours.]

The applicant argues that the Examiner and the Assistant Commissioner predicated their respective decisions on an erroneous construction and improper extension of the involved statute in that antecedent support cannot be found in the applicable law for a ruling that a mark is deemed to be descriptive if it describes a class of purchasers for whom the goods are intended. The applicant further argues that its mark does not describe a class of purchasers.

The appellee-opposer contends that the applicant's "Plus 30" face cream was specifically produced for and intended to be sold to women over 30 years of age, and that extensive advertising on the part of the applicant, as shown in the record, clearly indicates that the term "Plus 30" was meant to mean, and does mean, more than 30 years of age. The appellee thereby concludes that the mark describes a face cream designed and sold for use by women over thirty years of age.

It is not wholly clear in our minds whether the tribunals below intended to convey the thought that "Plus 30" described women cosmetic users over the age of 30, or whether said tribunals based their opinion on the premise that "Plus 30" indicated to the purchaser that the product was primarily for use by women over 30.

[2] We think that it is entirely clear that "Plus 30" does not, in the proper sense of the word, describe face creams or any characteristic or quality thereof. We are further of the opinion that a purchaser upon encountering the term "Plus 30" on a container of face cream would not thereby conclude that the mark signified a face cream for use by women over the age of 30.

For the reasons hereinbefore stated, the decision of the Commissioner of Patents is reversed.

REVERSED.



# PATENT SUITS

**Notices under 35 U. S. C. 290; Patent Act of 1952**

2,148,308, H. E. Spear, Forward-tilting cab; 2,210,519, A. C. Wollensak, Vehicle cab; 2,370,491, L. W. Kinney, Jr., Tilting cab; 2,502,622, B. C. Harris, same; Des. 163,279, same, Truck cab, filed Apr. 30, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1095, *The White Motor Co.* v. *Diamond T Motor Car Co.*

2,210,519. (See 2,148,308.)

2,254,493, E. Pearson, Synchronizing apparatus and system, D. C., N. D. Ill. (Chicago), Doc. 50c1209, *E. Pearson* v. *Central Illinois Light Co.* Claims 32 and 33 held void on the ground of double patenting, and for lack of invention, and because of delay in claiming commercial use of the subject matter thereof; complaint dismissed and judgment entered for defendant Apr. 8, 1953.

2,260,703, A. J. Daly, Telephone receiver holder, D. C., S. D. N. Y., Doc. 62/96, *A. J. Daly* v. *Central Technical, Inc.* Stipulation and order of discontinuance (notice May 6, 1953).

2,264,486, Smith & Norman, Cake cutter and server, D. C., N. D. Ill. (Chicago), Doc. 52c2378, *Krag Steel Products, Inc.* v. *R. B. Smith et al.* Consent decree holding patent valid and infringed by Drake Products, Inc., injunction; complaint dismissed as to Marshall Field & Co., cause to proceed as to R. B. Smith and J. H. Norman Apr. 17, 1953.

2,376,491. (See 2,148,308.)

2,437,793, D. Silberman, Zipper manufacturing machinery, D. C., S. D. N. Y., Doc. 45/629, *Charm Slide Fastener Corp.* v. *Syncro Slide Fastener Corp.* Order dismissing cause for lack of prosecution May 1, 1953.

2,475,277, F. O. Budnik, Plastic bag having fused seams, etc., D. C., N. D. Ill. (Chicago), Doc. 52c1423, *Fabrico Mfg. Corp.* v. *F. O. Budnik.* On stipulation, order complaint and counterclaim dismissed with prejudice Apr. 13, 1953.

2,502,622. (See 2,148,308.)

2,550,775, F. G. Clark, Magnetic screw driver; 2,630,036, R. M. Brown, Magnetic fastener-holding device, filed Sept. 12, 1953, D. C., N. D. Ill. (Chicago), Doc. 52c1977, *Magna Driver Corp.* v. *R. M. Brown.*

2,564,224, Mitchell & Fosnot, Impact tool; 2,585,486, W. G. Mitchell, Impact type clutch, filed Apr. 29, 1953, D. C., N. D. Ill. (Chicago), Doc. 52c920, *Thor Power Tool Co.* v. *Mall Tool Co.*

2,585,486. (See 2,564,224.) 2,630,036. (See 2,550,775.)

2,630,205, M. B. Lucker, Automobile jack, filed May 4, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13485, *Auto Specialties Mfg. Co.* v. *Hyde Park Iron Works, Inc.*

2,632,371, H. S. Shoemaker, Cultivator, filed May 6, 1953, D. C., W. D. La. (Shreveport), Doc. 4114, *H. S. Shoemaker* v. *The Blanton Plow Co., Inc., et al.*

2,636,860, J. L. Snoek et al., Magnetic core, filed May 4, 1953, D. C., S. D. N. Y., Doc. 84/373, *Henry L. Crowley & Co., Inc.* v. *Philips Laboratories, Inc., et al.*

Des. 157,016, E. T. Whitmer, Lamp shade, filed Apr. 29, 1953, D. C. Ariz. (Phoenix) Doc. 1876, *Whitmer Lampshade Co.* v. *C. E. Velasco.*

Des. 163,279. (See 2,148,308.)

# TRADE-MARK SUITS

**Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946**

T. M. 34,806, T. A. Edison, Certain named philosophical and scientific apparatus; T. M. 60,343, Edison Mfg. Co., Primary batteries, and fan motors; T. M. 82,971, Edison Storage Battery Co., Storage batteries, etc.; T. M. 259,035, Thomas A. Edison, Inc., Primary batteries; T. M. 301,881, T. M. 567,703, same, Storage batteries; T. M. 303,203, same, Sound recording and reproducing apparatus, etc.; T. M. 367,425, T. M. 368,005, same, Electronic and audio apparatus and devices; T. M. 368,309, T. M. 368,310, same, Miner's electric lighting outfit, etc.; T. M. 372,127, same, Switches and relays; T. M. 377,016, same, Regulator for heating apparatus; T. M. 409,187, same, Indicating instruments; T. M. 303,326, same, Machine for shaving sound record tablets and parts thereof; T. M. 305,381, same, Electric motors, filed May 1, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1113, *Thomas A. Edison, Inc.* v. *Altheimer & Baer, Inc.*

T. M. 60,343. (See T. M. 34,806.)

T. M. 82,971. (See T. M 34,806.)

T. M. 259,035. (See T. M. 34,806.)

T. M. 301,881. (See T. M. 34,806.)

T. M. 303,203. (See T. M. 34,806.)

T. M. 303,326. (See T. M. 34,806.)

T. M. 305,381. (See T. M. 34,806.)

T. M. 367,425. (See T. M. 34,806.)

T. M. 368,005. (See T. M. 34,806.)

T. M. 368,309. (See T. M. 34,806.)

T. M. 368,310. (See T. M. 34,806.)

T. M. 372,127. (See T. M. 34,806.)

T. M. 377,016. (See T. M. 34,806.)

T. M. 397,118. James Barclay & Co., Ltd., Whiskey. D. C., S. D. N. Y., Doc. 68/95, *James Barclay & Co., Ltd.* v. *North End Wine & Liquor Store, Inc.* Stipulation and order of settlement May 6, 1953.

T. M. 409,187. (See T. M. 34,806.)

T. M. 520,178. G. H. Weinrott & Co., Concrete buildings and component parts of reinforced concrete, etc., filed May 4, 1953, D. C. Pa. (Philadelphia), Doc. 15190, *Permacrete Products Corp.* v. *George H. Weinrott & Co.*

T. M. 567,703. (See T. M. 34,806.)

# NOTICES

## New Rules of United States Court of Customs and Patent Appeals

The United States Court of Customs and Patent Appeals has promulgated a new set of rules, effective July 1, 1953. Copies may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

The principal changes consist in the amendment of Rule 5 to change certain fees and to eliminate the charge of 25 cents per page for supervising the printing of records, the amendment of Rule 13 to eliminate the requirement for printing documentary exhibits, the amendment of Rules 26 and 27 to eliminate the provisions that a vacation period of the Court shall extend the time for payment of the cost of printing the record and for filing briefs, and the amendment of Rule 27 to require the filing of 18 copies of printed briefs instead of 15.

## Adjudicated Patents

(D. C. Cal.) Miller Patent No. 2,226,009, for a hop separator, *Held* invalid. *Thys Company et al.* v. *Oeste*, 111 F. Supp. 665; 96 USPQ 294.

(C. A. Ohio) White Patent No. 2,339,827, for a closure cap and package, *Held* invalid. *White Cap Company* v. *Owens-Illinois Glass Company*, 203 F.2d 694; 97 USPQ 192.

(D. C. N. Y.) Roop Patent No. 2,575,770, for a nesting kitchen canister, *Held* invalid. *Columbus Plastic Products, Inc.* v. *Rona Plastic Corporation et al.*, 111 F. Supp. 623; 97 USPQ 225.

(D. C. N. Y.) Roop Design Patent No. 162,579, for a canister, *Held* invalid. *Id.*

## Disclaimers

2,500,778.—*Raymond E. Tobey*, Springfield, Mass. REFRIGERATOR HAVING AN AUTOMATICALLY CONTROLLED SECONDARY REFRIGERANT SYSTEM. Patent dated Mar. 14, 1950. Disclaimer filed May 26, 1953, by the assignee, *Westinghouse Electric Corporation*.

Hereby enter this disclaimer to claims 14, 15, 16, and 17 of said patent.

2,561,817.—*Normon W. Parker*, Cincinnati, Ohio. AUTOMATIC FREQUENCY CONTROL CIRCUIT. Patent dated July 24, 1951. Disclaimer filed June 5, 1953, by the assignee, *Avco Manufacturing Corporation*.

Hereby enters this disclaimer to claims 2 and 13 of said patent.

## Cancellation Notices

[No. 6043]

*Perx Company, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Hayette, Inc., St. Paul, Minnesota, to effect the cancellation of trade-mark registration of Perx Company, 222 West North Bank, Chicago, Illinois, No. 368,101, dated June 6, 1939, and the notice of such proceeding sent by registered mail to the said Perx Company, at the said address having been returned by the Post Office as undeliverable, notice is hereby given that unless said Perx Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 30.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

June 11, 1953.

[No. 6060]

*V. Loewer's Gambrinus Brewery Co., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by August Wagner Breweries, Inc., 605–631 South Front Street, Columbus, Ohio, to effect the cancellation of trade-mark registrations of V. Loewer's Gambrinus Brewery Co., 528–32 West 42nd Street, New York, New York, No. 351,042, dated October 19, 1937 and No. 373,286, dated December 5, 1939 and the notice of such proceeding sent by registered mail to the said V. Loewer's Gambrinus Brewery at the said address having been returned by the Post Office as being undeliverable, notice is hereby given that unless said V. Loewer's Gambrinus Brewery Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—June 30.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

June 11, 1953.

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,547,923. Interchangeable Temple for Eyeglass Frames. Patented Apr. 10, 1951. Eyeglass frame in which each temple piece is so shaped and shouldered that it can be connected to either the right or left side of the frame and serve as either the right or left temple piece. The eyeglass frame has bent end portions to which a pair of the temple pieces are attached. Each end portion has a pivot pin opening and an inclined shoulder disposed forwardly of the opening with circular recesses about the ends of the opening to snugly receive bifurcated circular attaching portions of a temple piece. The temple piece has a pivot pin opening extending through the attaching portions and is provided with a pair of inclined shoulders disposed rearwardly of the attaching portions so that when the temple piece is attached to either end portion of the frame one of the shoulders will abut the shoulder on the end portion. The end portions and temple pieces are secured together by pivot pins. (Owner) W. A. Brown, Lincoln, Maine. Group 39—14. Reg. No. 50,986.

Pat. 2,630,163. Reclining Chair. Patented Mar. 3, 1953. Chair may be swung from a sitting position to a reclining position, and vice versa, without any chair adjustment being required. The supporting portion of the chair swings on a stand consisting of a pair of legs extending upwardly from a pair of spaced parallel bases. The supporting portion comprises a frame having spaced pairs of upper and lower arms which are pivotally connected at their rear ends to a pair of upwardly extending parallel bars. The legs extend upwardly between the arms with the upper pairs of arms pivotally connected to brackets secured to the upper ends of the legs. A canvas support is secured to a brace between the upper ends of the bars and to a body member extending between the lower arms. A leg support depending from the front end of the frame is pivotally connected to the front ends of the upper and lower arms so that a person sitting in the chair can engage the support with his feet to swing the chair from sitting position to reclining position, and vice versa. Movement of the chair parts is limited by a pair of chains secured to the legs and to the upper arms. (Owner) Peter T. Grahill, 3802 Vivian St., Houston 16, Tex. Group 25—11. Reg. No. 50,987.

Pat. 2,615,191. Power Wringer for Mops. Patented Oct. 28, 1952. A wheeled cart carries a power-driven mop wringer and two water containers. A reduction-drive roller of perforated metal is journaled between the side members of an upper frame of the cart, with one end of the shaft connected to an electric motor supported on the frame. An idle roller, spaced forward of the power roller, is rotatably mounted in a U-shaped frame slidable in slots along the side members of the cart frame. Operator lowers the mop head between the spaced rollers into a container of cleaning solution or of rinsing water supported on the base of the cart, and steps on a foot pedal to move the frame carrying the idle roller toward the power roller. By this movement a switch on the frame is closed, actuating the power roller, and the mop is wrung and lifted. Upon release of the pedal, the idle roller is returned by tension springs, breaking the circuit and stopping the power roller. A hood serves as a platform for supporting mops when moving from place to place. (Owner) Herman H. Brown, 640 Elmwood Drive, N. E., Atlanta, Ga. Group 35—69; 36—21. Reg. No. 50,988.

Des. 155,537. Anchor. Patented Oct. 11, 1949 (Term 14 years). Reg. No. 50,989.

Des. 162,874. Sea Anchor. Patented Apr. 10, 1951 (Term 14 years). Reg. No. 50,990.

The two patents listed above show sportsman's anchors, triangular in shape and with a tail, especially suitable for both small and medium sized fishing craft. Inventor states it is unnecessary to haul up the anchor every time the fishing boat is moved. (Owner) Paul W. Polenz, 3717 Adams Ave., San Diego 16, Calif. Group 39—49.

The following five patents are owned by Georges Valensi. Correspondence to Michael S. Striker, 511 Fifth Ave., New York 17, N. Y.

Pat. 2,495,790. Scanning System for Television Receivers. Patented Jan. 31, 1950. Scanning system for television receivers embodies a device which, by simply changing a screen having a transparency varying from one point to the other in accordance with a predetermined scanning law, generates electric currents having the waveforms necessary for fulfilling the scanning in accordance with the characteristics of the television station sending the images that one wishes to see. Group 36—61. Reg. No. 50,991.

Pat. 2,620,394. High-Speed Telegraphic System. Patented Dec. 2, 1952. System for the high-speed transmission of telegraph signals wherein a preliminary recording of the telegraphic signals is effected in a manner which is independent of the rhythm or timing of their subsequent transmission. The recorded signals are transmitted at high speed over a telephonic channel and subsequently recorded at a receiving station upon photographic film by means of an electro-optical relay synchronized by the manner of transmission. Group 36—62. Reg. No. 50,992.

The following three patents relate to color television systems of the type in which a brightness signal and a coded color signal are transmitted to characterize every elemental area of the picture being scanned at a given instant. In each system, the transmitter includes a coding device and the receiver includes a decoding device.

Pat. 2,375,966. System of Television in Colors. Patented May 15, 1945. Group 36—61. Reg. No. 50,993.

Pat. 2,492,926. Color Television System. Patented Dec. 27, 1949. Group 36—61. Reg. No. 50,994.

Pat. 2,606,962. Color Television Receiver. Patented Aug. 12, 1952. Group 36—61. Reg. No. 50,995.

Pat. 2,620,185. Climbing and Sliding Apparatus. Patented Dec. 2, 1952. Infant's foldable climbing and sliding apparatus, especially suitable for the amusement and muscular development of children in the age group of less than one year to three years or more. A pair of hingedly connected sections of different lengths have spaced side rails interconnected by spaced rungs, with a canvas web woven through the rungs. Free ends of the sections are connected by ropes which pass through apertures in the side rails and then extend upwardly along the side rails of the shorter section and over one of the rungs where their ends are attached to harness snaps. By releasing the snaps, the ropes may be adjusted to surround higher or lower rungs to raise or lower the apparatus, and thus vary the steepness of the sections. A child can easily grasp a rung in his effort to climb the apparatus, and at the same time his feet and hands cannot fall or slip between the rungs. As the child grows older, a side panel may be attached to the upper surface of the longer section so that a child, after climbing to the top of the short section, may slide down the longer section. The slide panel has a removable extension piece to rest on the floor or other supporting surface. (Owner) Richard B. Harding, 10 Hickory Place, Northport, N. Y. Group 39—41. Reg. No. 50,996.

Pat. 2,389,736. Soap Sheet and Method of Making Same. Patented Nov. 27, 1945. In making sanitary soap sheets for carrying in a purse etc., two continuous strips of porous paper which will be easily disintegrable when wet, such as facial tissue or perforated paper, are placed together to form a trough. Soap in plastic form is poured into the trough, and the strips are pressed together and run between rollers to anchor the two strips together in a unitary structure. The laminated strips are then run over heated rollers for proper drying and are fed to a guillotine paper cutter to be cut into sheets of desired shape and size, which may be stacked without sticking. If desired, the continuous strips may be rolled. In use, the paper when wet disintegrates, and the soap is ready for use. (Owner) James H. Muise, 1719A Sea Cliff Circle, San Pedro, Calif. Groups 26—99; 28—41; 40. Reg. No. 50,997.

Swift & Company has placed he following six patents on the Register as available for licensing on reasonable terms. Inquiries concerning licenses may be directed to: Swift & Company, Union Stock Yards, Chicago 9, Ill.

Pat. 2,565,311. Egg Pasteurization. Patented Aug. 21, 1951. Process for continuously pasteurizing large volumes of whole, fresh eggs. A stream of eggs are flash-heated to a temperature between 138° and 150° F. by passing the eggs in a thin layer through a heating zone. The heated eggs are promptly subjected to a temperature between 125° and 145° F. for about 2 to 30 minutes. The heat-treated eggs are promptly chilled. Group 20—99. Reg. No. 50,998.

Pat. 2,608,564. A Process for the Separation of Higher Fatty Acid Partial Esters of Polyhydric Alcohols From Mixture Containing the Same. Patented Aug. 26, 1952. Process for separating higher fatty acid partial esters of polyhydric alcohols into fractions having uniform chemical and physical properties. The esters are admixed with from ½ to 15 parts by volume of an ester of a lower aliphatic alcohol and an aliphatic monocarboxylic acid at a temperature between 70° and 200° F. to obtain a solution of the fatty acid esters. The solution is then cooled stepwise at small intervals of temperature between about 100° and 40° F. The distinct phases formed after each cooling operation are separated. Group 28—89. Reg. No. 50,999.

Pat. 2,619,493. Monoglycerides. Patented Nov. 25, 1952. Process of producing pure monoglycerides. Glycerin is reacted with an oxo-carbonyl compound whereby two of the hydroxyl groups of the glycerin are blocked. The resulting product is esterified by reaction with an alkyl ester of a fatty acid. The esterified product is purified by high vacuum distillation. The blocked hydroxyl groups are unblocked by removing the oxo-carbonyl compound to form a monoglyceride. Examples are given in the patent. Group 28—31—91. Reg. No. 51,000.

Pat. 2,622,982. Whey Treatment. Patented Dec. 23, 1952. Process of treating whey to remove its objectionable flavor. Whole whey solids are extracted at a temperature between 70° and 90° F. with acetone in the presence of 20% to 40% water. The acetone contains a small amount of compounds of objectionable flavor which are separated from the solids. The whey solids which are insoluble in the acetone and water are dried to produce a light-colored product having an improved flavor. Group 20—23. Reg. No. 51,001.

Pat. 2,623,850. Water Treatment. Patented Dec. 30, 1952. Method of treating water to remove undesirable substances therefrom by chemical precipitation. Raw water to be treated is mixed with partially clarified water. Chemicals are added to this mixture and the mixture is passed under pressure into a reaction zone to cause agitation therein. A portion of the water is placed in a primary clarification zone to give a flow rate of from about 2 to 14 gallons per minute per square foot of cross-sectional area in the primary clarification zone and contacting the incoming raw water therewith. The remaining water is placed in a secondary clarification zone wherein the precipitated solids settle out. The treated, clarified water is withdrawn from the secondary clarification zone. Groups 28—34; 35—69. Reg. No. 51,002.

Pat. 2,625,283. Dispensing Apparatus. Patented Jan. 13, 1953. Device for dispensing ice cream or the like from open top paper cups is adapted to be used at soda fountains or other establishments in which filled cups are stacked in inverted position in a suitable cooled container. The dispenser has an inverted cup-shaped holder with a plunger extending out of the upper end and spaced resilient hook-shaped fingers disposed adjacent the mouth of the holder. In use, the dispenser, which may be held in one hand and operated by the thumb, is pressed downwardly over the topmost filled cup in a stack to cause the cup to be received within the holder with the resilient fingers engaging the rim of the cup. The plunger is then depressed to push the bottom of the cup downwardly and dispense the contents. Further depression of the plunger will cam the resilient fingers outwardly and eject the cup into any suitable waste receptacle. Groups 39—97; 40. Reg. No. 51,003.

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Pat. 2,603,125. Combination Enlarger and Projector System. Patented July 15, 1952. In a projector system, a single light source assembly serves both for projecting and for photographic enlarging. A light-locked, ventilated casing, attached to a standard, vertically supports an illuminant and a reflector. Fastened to the front wall of the casing is a light-tight condenser lens assembly casing, comprising front and rear lens-mounting segments hinged to each other, for projecting a beam along the optical axis of the illuminant to focus the light source at one conjugate to the optical center of the objective at the second conjugate, the light beam passing between the two sections being collimated. A ring coupling on the condenser casing supports the film or slide in a frame, and a focusing objective lens assembly. To convert the device to a photographic enlarger, the front segment of the condenser lens casing is swung downward 90° on the hinge, and an adjustable angular mirror reflector unit is interposed between the segments. In this unit an angularly disposed plane mirror re-directs the collimating rays and vertically projects the light beam for enlargement at right angles to the optical axis of the illuminant, the conjugate points of the condenser system remaining the same. (Owner) Mrs. Ada Fuegeman, 35 Hampton Road, Scarsdale, N. Y. Group 39—12. Reg. No. 51,004.

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Pat. 2,542,027. Gripping or Expanding Device Having Three or More Pivoted Jaw Shanks Operated by Two Hand Grips. Patented Feb. 21, 1951. This device embodying three or more jaws operated with one pair of handles is designed to provide added points of contact for gripping or expanding. One form is adapted for coal tongs, pliers, and other gripping devices. The other type is suitable for glove stretchers, ring stretchers, and the like. In both forms, three or more jaws, two of which are provided with handles or hand grips, are independently pivotally mounted on pivots which radiate from a common center with respect to the longitudinal axis of the device. The adjacent surfaces of the jaws are concavely curved in the region of the pivots to coact, so that when the handles are opened or closed the jaws operate in synchronism. (Owner) May Elizabeth Hodell, administratrix of the estate of Cope Bishop Hodell, % T. A. Fletcher Wilson, 3 Queens Road, Coventry, England. Group 33—52. Reg. No. 51,005.

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## Dedicated Patents

The Joy Manufacturing Company, of 333 Henry W. Oliver Building, Pittsburgh, Pa., has by an instrument recorded in the U. S. Patent Office dedicated the following three patents to the Public.

Pat. 2,258,614. Method of Treating and Producing Oil-Water Wells. Patented Oct. 14, 1941. This patent relates to methods of treating and producing oil-water wells characterized generally by the production of conditions permitting restratification to be effected, the effecting of such restratification as may be desirable, and the production of liquid from the well under correlated conditions of back pressure and production rate which together result in a much improved percentage of oil in the well discharge. Group 35—32.

Pat. 2,258,615. Apparatus for the Treatment and Producing of Oil-Water Wells. Patented Oct. 14, 1941. This patent relates to apparatus by means of which an oil well may be so treated as to restore to availability for oil delivery portions of the formation adjacent the well that had become water-sealed and by means of which apparatus, upon the renewal of production, conditions may be maintained to preclude, or at least delay, ingress of water in objectionable quantities. Group 35—32.

Pat. 2,258,616. Treatment and Producing of Oil Wells. Patented Oct. 14, 1941. According to the invention of this patent, a well is treated so as to restore to availability for oil delivery portions of the formation adjacent the well which have become water-sealed, certain of the water channels are dammed, and the well is then produced, desirably with a controlled back pressure, and either with or without the reapplication, between such damming and production, of a procedure for promoting restratification, to effect oil production under a differential in pressure between the formation and the well. Group 35—32.

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Taylor, Taylor & Hobson Ltd., of Leicester, England, has by an instrument recorded in the U. S. Patent Office dedicated the following U. S. patent to the people of the United States of America and its Territories for their free use.

Pat. 2,421,578. Apparatus for Measuring the Degree of Roughness of Surfaces. Patented June 3, 1947. Apparatus for measuring surface roughness of machined workpieces is of the type in which a stylus is traversed over the surface under test and the movements of the stylus approximately normal to the surface are converted into electrical energy, by which a measuring instrument is operated for giving an average reading representative of the degree of roughness of the surface. Groups 35—43; 36—13.

# TRADE-MARKS

OFFICIAL GAZETTE, JULY 14, 1953

[VOL. 672. No. 2]

## ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 618,124. Perlite of Houston, Inc., Houston, Tex. Filed Aug. 27, 1951.

**Texlite**

For Expanded Volcanic Glass in a Semi-Powder State. Claims use since July 13, 1951.

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Ser. No. 621,790. Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Filed Nov. 28, 1951.

**Gobinyle**

Applicant claims ownership of French Registration No. 340,719, dated Jan. 21, 1944.

For Synthetic Plastic Material in the Form of Sheets, Rods, Threads, Filaments, and Cylinders for Further Manufacture in the Industrial Arts.

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Ser. No. 623,276. A. Gusmer, Inc., Hoboken, N. J. Filed Jan. 7, 1952.

**MAMMUT**

Applicant claims ownership of Registrations Nos. 74,854 and 325,310.

For Pitch, Especially for Use in Breweries; Pitch-Like Goods for Lining of the Containers for the Fermentation, Storage, and Transportation of Liquids for Use in the Beverage Industry and Fermentation Business.

Claims use since Nov. 14, 1933.

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Ser. No. 625,343. Continental Paper Grading Company, Chicago, Ill. Filed Feb. 21, 1952.

**CONOWEVE**

For Unwoven Fabric Made From All Cotton Fibres, Sold by the Yard, or Bolt, or Pound, and Suitable for Use In Laminated Plastics, Quilting, Shoulder Pads, Filters, Etc.

Claims use since Feb. 11, 1952.

Ser. No. 627,347. The Milwhite Company, Inc., Houston, Tex. Filed Mar. 31, 1952.



For Materials for Use in Making Drilling Muds—Namely, Sawdust, Chopped Cellophane, Ground Bagasse, Starch, Ground Barite, Lignite, Clay, Bentonite, Mica, and Quebracho Compound.

Claims use since Feb. 27, 1952.

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Ser. No. 627,906. W. L. Stensgaard and Associates, Inc., Chicago, Ill. Filed Apr. 10, 1952.

**SPUNWOOD**

For Sheets Formed of Ground Wood or Other Wood Particles With a Resin Binder Sold in Certain Standard Sizes and Thicknesses for Various Uses in the Industrial Arts.

Claims use since Feb. 12, 1952.

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Ser. No. 637,077. Pennsylvania Farms Hatchery, Inc., Lewistown, Pa. Filed Oct. 23, 1952.




The phrase "White Americans," the word "Metcalf's," the phrase "The Original Strain" and the word "Hy" are disclaimed apart from the mark shown.

For Live Chickens, Fresh Eggs for Hatching Purposes, and Baby Chicks.

Claims use since Oct. 3, 1952.

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Ser. No. 638,019. Star Woolen Co., Cohoes, N. Y. Filed Nov. 13, 1952.

**NY-SUL-LITE**

For Crimped Nylon Batting.

Claims use since Aug. 5, 1952.

Ser. No. 639,402. American Bildrok Company, Chicago, Ill. Filed Dec. 13, 1952.

Kitty's Korner

No claim is made for the word "Kitty's" apart from the mark as shown.

For Granular Odor and Moisture Absorptive Litter for Animal Pets.

Claims use since Dec. 3, 1952.

## CLASS 2

### RECEPTACLES

Ser. No. 576,960. Devorn Displays Corporation, Cleveland, Ohio. Filed Apr. 12, 1949.

Nopak

For Portable Breakdown Shipping Cases Which May Be Opened Up and Used as Displays for Merchandise.

Claims use since Feb. 7, 1949.

Ser. No. 581,959. International Harvester Company, Chicago, Ill. Filed July 14, 1949.



The lining in the drawing forms a part of the mark and does not serve to indicate color.

For Refrigeration Packaging Products—Namely, Plastic Film and Cellophane Bags Which Are Impervious to Moisture and Cartons.

Claims use since on or about Apr. 29, 1949.

Ser. No. 587,562. Harper J. Ransburg Co., Inc., Indianapolis, Ind. Filed Nov. 9, 1949.

KITCHEN BOUQUET

No claim is made to the word "Kitchen" used alone.

For Metal Receptacles—Namely, Cleanser Can Holders, Match Boxes for Kitchen Use, Canlaters, Waste Baskets, Flour Bins, Step-on Cans, Bread Boxes, Portable Cleansing Tissue Holders and Dispensers Sold Empty, Perforated Cans for Use as Flour Dispensers, and Portable Dispensing Containers for Soap in the Form of Powder, Flakes, and the Like.

Claims use since on or about Jan. 18, 1939.

Ser. No. 595,415. Rogers Plastic Corporation, West Warren, Mass. Filed Apr. 7, 1950.

ROGERWARE

For Coasters, Flower Pots, Dishes and Cups, Napkin Holders, Pots, Kitchenware Bowls, Drinking Tumblers, Mail Boxes, and Ice Buckets, Pitchers, All Made of Plastic.

Claims use since January 1948.

Ser. No. 615,954. The Union Metal Manufacturing Company, Canton, Ohio. Filed June 30, 1951.

WORK-O-MATIC

For Drop Bottom Materials Handling Stacking Boxes.

Claims use since Apr. 24, 1951.

Ser. No. 629,659. Evans Bellhouse Limited, Manchester, England. Filed May 14, 1952.

Keb

Applicant claims ownership of British Registration No. 700,001, dated July 23, 1951.

For Non-Metallic Protective Packing Cases Moulded Into Special Shapes To Hold and Store Articles of Merchandise.

Ser. No. 630,917. The Apollo Company, Inc., Detroit, Mich. Filed June 9, 1952.

Apollo

For Diaper Bags, Picnic Bags, and Food-Carrying Bags.

Claims use since on or about Aug. 20, 1948.

Ser. No. 633,687. United Biscuit Company of America, doing business under the style name of Chicago Carton Company, Chicago, Ill. Filed Aug. 9, 1952.

AUTONEST

For Collapsible Display and Holding Racks Made of Fibrous Sheet Material, and Having a Plurality of Longitudinal Sections and Transverse Intersecting Panels and Providing a Plurality of Separate Spaces or Compartments Adapted To Hold Groups of Cookies or Other Pieces of Merchandise.

Claims use since June 1949.



Ser. No. 639,229. Kenneth H. MacKay, doing business as Steady Manufacturing Company, Ocala, Fla. Filed Dec. 9, 1952.

Steady Boy

For Small Paper Boxes for Serving Food and Paper Holders Having a Ring Formation for Supporting Drinking Cups and Attachable to Any Wall Surface.

Claims use since on or about Oct. 10, 1952.

## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Ser. No. 622,779. Scour-Tex Proprietary Limited, Melbourne, Victoria, Australia. Filed Dec. 22, 1951.

SCOUR-TEX

The exclusive use of the word "Scour" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Australian Registration No. 89,742, dated Dec. 24, 1946.

For Pads and Mops of Abrasive Materials for Scouring and Cleaning Dishes, Pots, Pans, Saucepans, Other Kitchen Utensils, and Holders for Such Goods.

Ser. No. 639,176. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENSWEEP

For Floor Sweeping Composition With Incidental Polishing Properties.

Claims use since Jan. 23, 1940.

Ser. No. 643,491. S. C. Johnson & Son, Inc., Racine, Wis. Filed Mar. 11, 1953.

Jubilee

For Cleaning and Polishing Preparation for Household and Automotive Hard Surfaces.

Claims use since on or before Jan. 1, 1934.

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 628,710. Plant Products Corporation, Blue Point, N. Y. Filed Apr. 25, 1952. (Sec. 2f.)

PROTEXALL

For Spraying and Dusting Pesticidal Composition.

Claims use since Feb. 5, 1946.

Ser. No. 632,367. Gering Products, Inc., Kenilworth, N. J. Filed July 10, 1952.

STYROMIX

For Plastic Mix Including Pigment for Making Plastic Articles and Materials.

Claims use since on or about Oct. 26, 1951.

Ser. No. 634,860. Reverman Enterprises, Columbus, Ohio. Filed July 29, 1952.

Dustless Dirt

For Chemical Compounds for Allaying Dust on Ground Surfaces—Namely, Race Tracks, Ball Parks, Etc.

Claims use since July 13, 1951.

Ser. No. 635,020. Arkansas Company Inc., Newark, N. J. Filed Sept. 9, 1952.

DERGOPAL

Applicant claims ownership of Registration No. 402,025.

For Textile Treating Compositions Containing Optical Bleaching Agents, Useful in Overcoming Yellow and Off-White Shades Often Occurring in Textile Materials, Thereby Imparting to Said Textiles a High Degree of Whiteness.

Claims use since on about Apr. 18, 1950.

Ser. No. 639,201. Tragasol Products Limited, Hooton Wirral, England. Filed Dec. 8, 1952.

TRAGASOL

Applicant claims ownership of Registrations Nos. 90,698, 90,805, and others.

For Sizing and Finishing Preparations for Use in Manufacturing or Processing Textiles, Paper, and Leather.

Claims use since Sept. 23, 1893; and since Sept. 23, 1893, in commerce between the United States and Great Britain.

Ser. No. 641,400. Tar-Gon Products, Inc., Chicago, Ill. Filed Jan. 27, 1953.

comfort-eye

For Preparation To Be Used as a Windshield Glare Eliminator.

Claims use since January 1953.

Ser. No. 643,239. Northrop Aircraft, Inc., Hawthorne, Calif. Filed Mar. 6, 1953.

LUXORB

For Compositions for Application to Interfaces of Optical Elements To Form Light Absorbing Films, Contings, and Layers Thereon for the Purpose of Reducing Internal Reflections in Said Optical Elements.

Claims use since Jan. 15, 1953.

## CLASS 7

### CORDAGE

Ser. No. 635,398. Burlington Mills Corporation, Greensboro, N. C. Filed Sept. 18, 1952.

RIB-ZEE

No claim is made under the statute to the word "Rib" apart from the mark as shown on the drawing.

For Ribbons for Use in Tying and Ornamenting Packages, Boxes, Etc.

Claims use since June 12, 1952.

Ser. No. 642,319. The Bob Stone Cordage Company, Charlton, Iowa. Filed Feb. 16, 1953.



For Binder Twine and Baler Twine.

Claims use since Jan. 4, 1952.

## CLASS 8

### SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 639,804. The Cat Cay Realty Company, Limited, Nassau, Island of New Providence, Bahama Islands, British West Indies. Filed Dec. 20, 1952.



For Cigarette Lighters, Cigarette Cases, and Smokers' Pipes.

Claims use since March 1936.

## CLASS 10

### FERTILIZERS

Ser. No. 635,473. Green Thumb Products, Toledo, Ohio. Filed Sept. 19, 1952.

GREEN THUMB

Applicant claims ownership of Registration No. 407,413.

For Fertilizer, Soil Conditioners, Amenders and Correctives Including Charcoal, Peat and Other Mosses, Partially Decomposed Animal and Vegetable Organic Matter Sometimes Called "Humus," and Soils Having Any of the Foregoing Mixed Therewith, Primarily Intended for Use as Fertilizers, Plant Foods, or Soil Conditioners.

Claims use since Apr. 3, 1951.

## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 634,001. Rejafix Limited, London, England. Filed Aug. 15, 1952.

Rejafix

For Printing and Marking Inks.

Claims use since in or about 1936 in Great Britain; and first used in commerce between the United States and Great Britain in or about 1947.

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 590,866. W. J. Dennis & Company, Chicago, Ill. Filed Dec. 31, 1949. (Sec. 2f.)

DENNIS WING FLEX

The lining is used to show shading only. John F. Dennis, president of W. J. Dennis & Company, whose surname appears as a part of the mark, consents to the registration of the same, consent of record. Applicant claims ownership of Registration No. 360,730.

For Weather Strip.

Claims use since July 16, 1937.

Ser. No. 594,781. Imperial Chemical Industries Limited, London and Millbank, London, England. Filed Mar. 28, 1950.

ICI

Applicant claims ownership of British Registrations Nos. 507,731, 507,732, and 507,750, dated Nov. 12, 1929.

For Lime for Building and Construction Purposes, Cement, Plaster, Plaster Board, Wall Board Made of Plastic; Nonferrous Sheet Roofing in Flat, Curved or Corrugated Form; Prefabricated and Semi-Fabricated Flashings, Weatherings, and Guttering; Clap Bourding; Girders of Nonferrous Metal (Not Cut to Length or Drilled for Rivets); Building and Construction Jointing Material Namely, Metal Strip for Sealing Joints Between Different Materials; Prefabricated or Semi-Fabricated Damp Proof Courses of Metal; Prefabricated and Semi-Fabricated Dowel Pins and Cramps for Holding Together Stone Blocks, Bricks, Concrete Blocks, and Like Building Units; Floor Surfacing Material Made of Plastic Which Can Be Laid in Liquid or Paste Form Which Subsequently Hardens Into a Floor Surface, Un Reinforced Plastic Floor Surfacing Material in Sheet or Tile Form; Mastic Floor Underlayment for Holding From Underneath Floor Surfacing Material of Tiles, Wood Blocks, Plastic Blocks or Plastic Sheet; Window and Skylight Panes of Transparent Plastic in Flat, Curved, or Corrugated Form; Plastic Wood and Putty.



## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 551,415. Edwin B. Stimpson Company, Inc., Brooklyn, N. Y. Filed Mar. 6, 1948. (Sec. 2f.)

STIMPSON

Applicant claims ownership of Registrations Nos. 165,965, 166,400, and others.

For Screws, Washers, Rivets, Rivet Crowns, Nails, Posts and Screws, Handles for Doors and Drawers, Glides for Furniture; Small Base Metal Articles and Parts Made of Drawn or Stamped Sheet Metal—Namely, Eyelets, Terminals, Grommets, Hooks, Connectors, Hole Plugs, Arrows and Hands, Fasteners, Angles, Clips, Clamps, Straps, Ferrules, Side-Prong Rivets, Buckles, Stays, Guards, Hangers, Sliders, Springs, Nuts, Tabs, Ventilators, Escutcheon Plates, Corners, and Pulls; and Screw Machine Products—Namely, Various Types of Nuts, Bolts, Sleeves, Bushings, Pins, Studs, Plugs, Knobs, Sheaves, Bearings, Shafts, Machine Screws, Rivets, Collets, and Collars.

Claims use since Aug. 1, 1945, on the mark as shown; the word "Stimpson" was first used on or about Jan. 1, 1894.

Ser. No. 608,185. Warren Foundry & Pipe Corp., Phillipsburg, N. J. Filed Nov. 24, 1950. (Sec. 2f.)

WARRENSPUN

For Cast Iron Pipe.

Claims use since July 1937.

Ser. No. 613,841. Garden City Plating & Mfg. Co., Chicago, Ill. Filed May 14, 1951.

GARCY

Applicant claims ownership of Registrations Nos. 421,654 and 219,424.

For Sliding Door Sheaves, Door Tracks, Door Rollers, Door Catches, Lift Door Pulleys, Ball Bearing Sheaves, Roller Bearing Sheaves, Drawer Rollers, Drawer Pulls, Handles, Flush Pulls, Label and Card Holders, Push Button Catches, Hinges, Friction Catches, Standards and Brackets for Shelving, Pilaster Standards and Brackets, Keyhole Standards and Brackets, Extension Garment Carrier Racks, Counter Protection Brackets, Door Pulls, Table Top Angles, Support and Brace Angles, Nuts, Bolts, Brace Rods, Braces, Show Case Brackets, Counter Brackets, Cane Brackets, Cloak and Suit Case Brackets and Arms, Foot Rail Brackets, Hat Display Brackets, Umbrella Brackets, Door Bumper Plates, Coat and Hat Hooks, Keyhole Standards Caps, Tubing Caps, Elbow Catches, Clamps, Cloak Case Bars and Fittings Therefor, Corners, Legs and Sockets, Metal Rod and Flange Type Counter Guards, Door Guards, Counter Rails, Shelf Rails, Table Rails, Foot Rails, Curtain Track, Curtain Pole Sockets, Door Bumpers, Filing Drawer File Rods and Follower Clips, Knobs, Drawer Slides, Door and Casement Elbow Fasteners, Friction Fasteners, Push Button Fasteners, Flanges, Table Top and Panel Fastening Brackets, Dividing Brackets and Fittings, Kick Plates, Display Cabinet Neckwire Dividing Brackets, Pipe, Tubing, Push Bars, Push Plates, Screws, Door Shoes, Counter Shoes, Table and Desk Shoes, Door Springs, Slot and Tubular Standards, Stay Joint Hinges, Door Stops, Clothing Display Hangers, Metal Clips for Mounting Plate Glass Counter Tops, Sliding Door Travelers or Carriers, Cupboard Catches and Latches, Utility Sheaves, Metal Washers, Window and Door Guards.

Claims use since 1919.

Ser. No. 634,205. Mid-State Products Company, Cleveland, Ohio. Filed Aug. 20, 1952.

DENTA-MATIC

For Toothpaste Dispensers Designed To Be Attached to a Wall or Other Supporting Surface.

Claims use since July 18, 1952.

Ser. No. 637,932. Market Metal Products, Youngstown, Ohio. Filed Nov. 12, 1952.

MIRACLE MIRROR

For Mirror Supporting Fixture for Mounting on Dressers, Bureaus, Vanity Tables, and the Like.

Claims use since Jan. 15, 1950.

Ser. No. 638,388. American Hoist & Derrick Co., St. Paul, Minn. Filed Nov. 21, 1952. (Sec. 2f.)

RED U-BOLT

Applicant claims ownership of Registration No. 156,609.

For Rope Clamps.

Claims use since at least as early as 1926.

Ser. No. 639,544. National Plastic Corporation, New York, N. Y. Filed Dec. 2, 1952.

Lazy Mazy

For Lazy Susans Made of Plastic.

Claims use since Sept. 23, 1952.

Ser. No. 640,041. The Harwood Co., Farmingdale, N. J. Filed Dec. 26, 1952.

Watermatic

For Poultry Watering Fountains Designed To Be Connected to a Permanent Water Supply.

Claims use since Sept. 23, 1952.

Ser. No. 640,949. Modern Sales Company, Los Angeles, Calif. Filed Jan. 19, 1953.

Mr. Bar-Flo

Applicant claims ownership of Registration No. 442,976.

For Carbonated Beverage Dispenser To Release Soda or Carbonated Beverage From a Bottle.

Claims use since Aug. 1, 1948.

Ser. No. 640,989. Wittek Manufacturing Co., Chicago, Ill. Filed Jan. 19, 1953.

NOC-OUT

Applicant claims ownership of Registration No. 153,878.
For Hose Clamps.
Claims use since Feb. 8, 1921.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 622,977. Arcos Corporation, Philadelphia, Pa. Filed Dec. 29, 1951.

TENSILEND

For Electric Arc Welding Electrodes of Metal for Welding Low Alloy High Tensile Steel.
Claims use since June 1, 1949.

Ser. No. 631,141. The Capewell Manufacturing Company, Hartford, Conn. Filed June 13, 1952. (Sec. 2f.)

CAPEWELL

Applicant claims ownership of Registrations Nos. 51,221, 367,020, and 367,872.
For Ground Flat Metal Stock.
Claims use since on or about Sept. 15, 1947.

Ser. No. 637,826. The International Nickel Company, Inc., New York, N. Y. Filed Nov. 8, 1952.

"INCOBAR"

Applicant claims ownership of Registration No. 509,009.
For Rolled Carbon-Bearing Nickel Anode Bars.
Claims use since Sept. 2, 1952.

Ser. No. 639,468. Donn H. Gannon, doing business under the fictitious name and style of Foil Enterprises, Mill Valley, Calif. Filed Dec. 15, 1952.

SUN FOIL

For Aluminum Foil for Household Use.
Claims use since Oct. 1, 1952.

Ser. No. 639,623. Fansteel Metallurgical Corporation, North Chicago, Ill. Filed Dec. 17, 1952.

FANSTEEL

Applicant claims ownership of Registrations Nos. 176,071, 179,283, and others.
For Tantalum, Tungsten, Molybdenum, and Columbium; Alloys of Tantalum, Tungsten, Molybdenum, and Columbium; Powder Metallurgy Compositions and Alloys of Refractory Metals, Precious Metals and Metallic and Nonmetallic Elements and Compounds—Namely, Powder Metallurgy Compositions and Alloys Containing Two or More of the Following: Tungsten, Molybdenum, Silver, Copper, Gold, Platinum, Ruthenium, Iridium, Palladium, Cobalt, Cadmium, Nickel, Germanium, Iron, Carbon, and Tungsten Carbide.
Claims use since on or about July 8, 1918.

Ser. No. 641,134. Eutectic Welding Alloys Corporation, New York, N. Y. Filed Jan. 22, 1953.

DYNARC

The word "Arc" is disclaimed apart from the mark as shown.
For Metallic Welding Electrodes.
Claims use since Jan. 14, 1953.

## CLASS 15

### OILS AND GREASES

Ser. No. 630,398. The DoAll Company, Des Plaines, Ill. Filed May 28, 1952.

DoALL

Applicant claims ownership of Registrations Nos. 339,329, 390,078, and 394,883.
For Lubricant and Coolant Used in Grinding and a Lubricating Wax Product in Stick Form for Lubricating the Edges of Cutting Tools.
Claims use since May 1, 1951, as to the mark shown; and since Mar. 1, 1935, as to "DoAll."

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 605,794. International Paint Company, Inc., New York, N. Y. Filed Nov. 2, 1950.

INTER-COP

For Ready Mixed Paints for Protecting the Bottoms of Wooden Vessels Against Animal and Vegetable Life in the Water.
Claims use since Sept. 18, 1950.

Ser. No. 610,605. Abco, Inc., formerly known as Apter Bros. & Co., Inc., McKeesport, Pa. Filed Feb. 28, 1951.

RUMAX

For Lacquer Type Coating Compositions Particularly Suited for Application to Asphalt, Composition, and Rubber Floor Surfaces.
Claims use since 1941.

Ser. No. 619,379. Bee Chemical Company, Chicago, Ill. Filed Sept. 29, 1951.

LOGOSET

Applicant claims ownership of Registrations Nos. 523,760 and 547,033.
For Synthetic Enamels and Varnishes.
Claims use since June 11, 1951.



Ser. No. 629,784. Make It Snow, Inc., New York, N. Y., assignor to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Filed Nov. 1, 1951.

MAKE IT SNOW

For Pressure Propelled Paint Containing Acryloid Resins of Different Colors for Decorative Purposes.
Claims use since Sept. 4, 1951.

Ser. No. 622,688. S. J. Arnold Company, Cleveland, Ohio. Filed Dec. 19, 1951.

ARNEX

For Undercoatings, Primer Coatings, or Like Preparatory Protective Coatings for Application to the Surfaces of Articles To Promote the Adhesion and Flexibility of Coatings of Paint, Enamels, Lacquer and the Like Thereafter To Be Applied; and Compounds and/or Compositions for Mixing With Paints, Enamels, Lacquers, Undercoatings and the Like To Promote Their Flexibility and/or Adhesion to Surfaces To Which They Are To Be Applied.
Claims use since Sept. 14, 1951.

Ser. No. 624,588. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Feb. 6, 1952.

ATLASTASOL

For Coating Material Comprising a Synthetic Resin and a Primer for Application to a Surface Which Is To Be Coated With a Synthetic Resin Coating Material.
Claims use since Jan. 19, 1951.

Ser. No. 629,798. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark. Filed May 16, 1952.

"CROWNGREY"

Applicant claims ownership of Danish Registration No. 1786/1951, dated Dec. 29, 1951.
For Ready Mixed and Anti-Corrosive Paints.

Ser. No. 629,799. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark. Filed May 16, 1952.

"ROSTICO"

Applicant claims ownership of Danish Registration No. 292/1927, dated Mar. 26, 1927.
For All Sorts of Paints and Varnishes.

Ser. No. 630,192. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark. Filed May 24, 1952.

HEMPALIN

Applicant claims ownership of Danish Registration No. 761/1951, dated June 2, 1951.
For All Sorts of Paints and Varnishes.

Ser. No. 630,463. United Wallpaper, Inc., Chicago, Ill. Filed May 28, 1952.

AURASPERS

For Color Pigments for Use in the Manufacture of Oil Paints and Water Emulsion Latex Paints.
Claims use since Jan. 25, 1952.

Ser. No. 630,464. United Wallpaper, Inc., Chicago, Ill. Filed May 28, 1952.

AURAPLAS

For Color Pigments for Use in the Manufacture of Oil Paints and Water Emulsion Latex Paints.
Claims use since Apr. 21, 1952.

Ser. No. 631,176. Protective Coatings, Inc., Tampa, Fla. Filed June 13, 1952.

Proco

For Liquid Neoprene Maintenance Coatings, and Vinyl Protective Coatings.
Claims use since August 1951.

Ser. No. 636,431. Prismo Safety Corporation, Huntingdon, Pa. Filed Oct. 9, 1952.



For Materials Sold as a Unit—Namely, Paint and Small Light Refracting Materials Such as Minute Glass Spheres for Use in Connection With the Fabrication of Highway Markers, Other Markers, and the Like.
Claims use since January 1950.

Ser. No. 638,427. The Martin-Senour Company, Chicago, Ill. Filed Nov. 21, 1952.



No claim is made for the paint brush, aside from the mark as shown.
For Ready Mixed, Custom Mixed, and Semi-Paste Paints; Enamels, Stains, Varnishes, and Lacquers.
Claims use since Apr. 21, 1952.

Ser. No. 638,793. Con-Cor Paint Company, Kansas City, Mo. Filed Dec. 1, 1952.

Con-Cor Last
Liquid Siding

The words "Liquid Siding" are disclaimed apart from the mark shown in the drawing.

For Protective, Heavy Bodied Oil Base Coating for Exterior Surfaces in Liquid Form When Applied and Which Solidifies Into a Relatively Thick Film Over the Surface After Application.

Claims use since Oct. 8, 1952.

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Ser. No. 639,178. Kentile, Inc., Brooklyn, N. Y. Filed Dec. 8, 1952.

KENTILE

The word "Tile" is disclaimed apart from the mark shown.

For Asphalt Primer Coatings for Plastered Walls and for Concrete and Magnesite Floors.

Claims use since June 28, 1951.

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Ser. No. 641,339. The Sherwin-Williams Company, Cleveland, Ohio. Filed Jan. 26, 1953.

RED-CHEK

The drawing is lined for the color red and such color is claimed as a feature of this mark.

For Sealer for Metal Surfaces in the Nature of a Paint.

Claims use since Oct. 20, 1952.

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## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 627,312. Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie, Vienna, Austria. Filed Mar. 31, 1952.

Oldsplendor

The words "Oesterreichische Tabakregie," and the expression "Gegrundet 1784" are disclaimed apart from the mark as shown. The drawing is lined for red, gold, and grey, but no claim is made to the particular color combination. Applicant claims ownership of Austrian Registration No. 25,274, dated Dec. 21, 1951.

For Snuff, Chewing and Smoking Tobacco, Cigars, and Cigarettes.

Ser. No. 630,868. Austria Tabakwerke Aktiengesellschaft vorm. Oesterreichische Tabakregie, Vienna, Austria. Filed June 5, 1952.

ÖSTERREICHISCHE TABAK-REGIE
GEGRÜNDET 1784

The wording "Osterreichische Tabakregie" and the expression "Gegrundet 1784" are disclaimed apart from the mark as shown. Applicant claims ownership of Austrian Registration No. 22,384, dated June 6, 1951.

For Snuff, Chewing and Smoking Tobacco, Cigars, and Cigarettes.

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## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 639,925. J. Witz Emmer, doing business under the name of The Surfluoricide Co., New Iberia, La. Filed Dec. 23, 1952.

N-D-K

For Solution for Preventing Decay of the Teeth.

Claims use since Oct. 11, 1952.

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## CLASS 19

### VEHICLES

Ser. No. 594,734. Transit Van Corporation, Redwood City, Calif. Filed Mar. 27, 1950.

For Transferable Non-Self-Propelled Cargo Containers Adapted To Be Mounted on Trailer Trucks, Railway Flatcars, and Other Conveyances.

Claims use since Dec. 29, 1949.

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Ser. No. 609,712. Barmatic Products Company, Cleveland, Ohio. Filed Feb. 7, 1951.

For Drag Links and Tie Rod Ends for Automotive Vehicles.

Claims use since Jan. 4, 1951.



Ser. No. 629,555. Harry C. Chambers, doing business as U-Neek Manufacturing Co., St. Louis, Mo. Filed May 12, 1952.

UNEEK

For Trailer Hitches.

Claims use since May 23, 1951.

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Ser. No. 632,144. Atlas Baby Carriage Co., Inc., New York, N. Y. Filed July 5, 1952.

Atlas

For Baby Carriages and Strollers.

Claims use since 1905.

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Ser. No. 635,877. Andrew Fisher Cycle Co., Inc., New York, N. Y. Filed Sept. 27, 1952.

WEST-END

For Bicycles.

Claims use since Dec. 20, 1951.

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## CLASS 20

### LINOLEUM AND OILED CLOTH

Ser. No. 632,769. Aldens, Inc., Chicago, Ill. Filed July 19, 1952. (Sec. 2f as to "Alden.")

ALDEN HOUSE

No claim is made to the exclusive use of the word "House" apart from the mark shown in the drawing.

For Linoleum, Linoleum Rugs, Linoleum Mats, Linoleum Floor and Wall Tile, Linoleum Stair Treads and Risers, Flexible Plastic Floor and Wall Covering, Flexible Plastic Floor and Wall Tile, Flexible Rubber Floor Tile, and Oiled Cloth.

Claims use since June 23, 1947, as to the mark shown; and since July 15, 1943, as to the word "Alden."

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## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 572,744. Joslyn Mfg. and Supply Co., Chicago, Ill. Filed Jan. 25, 1949. (Sec. 2f.)

Joslyn

For Complete Pole Line Equipment—Namely, Insulators and Parts Thereof; Circuit Protective Equipment and Parts Thereof—Namely, Lightning Arrestors, Fuses, and Cutouts; and Luminaires and Parts Thereof.

Claims use since Oct. 23, 1923.

Ser. No. 600,915. Railway & Industrial Engineering Co., Greensburg, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania. Filed July 19, 1950.

R&IE

For Electrical Apparatus and Switch Gear—Namely, Disconnect Switches and Parts Thereof, Interrupter Switches and Parts Thereof, Load Break Switches and Parts Thereof, Reclosers and Parts Thereof, Circuit Breakers and Parts Thereof; Grounding Switches and Parts Thereof; Field Switches and Parts Thereof; Electrical Contacts, Arc Chutes; Switch Gear Operating Devices—Namely, Handles, Sticks, Solenoids, and Electric Motors; Relays; Fuses; Fuse Holders; Fuse Enclosures; Pot-Heads; Lightning Arrestors; Buses; Bus Enclosures, Combined Fuses and Switch Gear; Switch Gear Interlocks; Switch Gear Locks; Electrical Buses, Switch Gear and Switch Operating Devices Connected Together and Sold as a Unit; Line Clamps; Electrical Connectors, Switch Gear Cubicles and Enclosures; Switchboards and Parts Thereof; Rectifiers; Transformers; Visual Indicators Connected Directly to Switch Gear or Electrically Connected Thereto and Indicating the Condition of the Switch Gear; Mounting Bases, Structures, Frames and Supports Adapted Particularly to Switch Gear; Electrical Insulators for Electrical Switch Gear and Apparatus.

Claims use since Sept. 24, 1936.

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Ser. No. 601,204. Essex Wire Corporation, Detroit, Mich. Filed July 25, 1950.

CORDS LTD.

For Electrical Plugs.

Claims use since Apr. 12, 1943.

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Ser. No. 611,624. The Vaughan Crane Company Limited, West Gorton, Manchester, England. Filed Mar. 21, 1951.

VESTAC

Applicant claims ownership of British Registration No. 685,072, dated Dec. 29, 1949.

For Electric Controls—Namely, Electric Motion Regulators, Electric Starters, Electric Speed Regulators, and Electric Brakes for Cranes.

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Ser. No. 611,756. Califone Corporation, Hollywood, Calif. Filed Mar. 26, 1951.

"VARIPOLE"

For Speed Control Mechanism for Record Players Comprising Means for Controlling the Speed of an Induction Motor Used To Revolve Said Records.

Claims use since Aug. 29, 1950.

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Ser. No. 615,006. Astron Corporation, East Newark, N. J. Filed June 11, 1951.

ASTRON

For Capacitors.

Claims use since April 1950 as to the mark shown; and since October 1949 as to "Astron."

Ser. No. 616,259. The Vaughan Crane Company Limited, West Gorton, Manchester, England. Filed July 9, 1951.

VESTRON

Applicant claims ownership of British Registration No. 685,073, dated Dec. 29, 1949.

For Electric Controls—Namely, Electric Motion Regulators, Electric Starters, Electric Speed Regulators, and Electric Brakes for Cranes.

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Ser. No. 623,597. Ferro Electric Products Inc., Kirkland, Ill. Filed Jan. 15, 1952.

SKY SWEEPER

For Television Antennae.
Claims use since Sept. 1, 1951.

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Ser. No. 625,385. Air Reduction Company, Incorporated, New York, N. Y. Filed Feb. 23, 1952.

*Steritrol*

For Electric Control Unit as an Accessory for Attachment to a Steam Pressure Sterilizer of the Type Used in Hospitals for Sterilizing Surgical Goods Such as Surgical Dressings and Surgical Instruments.
Claims use since Mar. 15, 1951.

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Ser. No. 625,434. Ohmite Manufacturing Company, Chicago, Ill. Filed Feb. 23, 1952.

CORRIB

For Electrical Circuit Control Elements—Namely, Resistors.
Claims use since August 1934.

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Ser. No. 625,535. The La Pointe-Plascomold Corporation, Windsor Locks, Conn. Filed Feb. 26, 1952.

*Long John*

For Antennas for Television Receivers.
Claims use since Jan. 14, 1952.

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Ser. No. 628,050. Ralph H. Persons, doing business as American Vacuum Company, Chicago, Ill. Filed Apr. 14, 1952.

ARGOWAND

For Electrically Operated Vacuum Cleaners for Industrial Use.
Claims use since September 1939.

Ser. No. 630,117. Candle-Lite Chemical Company, Miami, Fla. Filed May 23, 1952.

EXTERM-O-LITE

The word "Lite" is disclaimed apart from the mark as shown on the drawing.
For Vaporizer for Insecticide Particularly Adapted for Attachment to an Electric Light Bulb.
Claims use since June 14, 1951.

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Ser. No. 631,258. Sewing Supplies, Inc., Chicago, Ill. Filed June 16, 1952.

*Sheraton*

For Electric Sewing Machine Motors and Electric Sewing Machine Lights.
Claims use since December 1950.

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Ser. No. 635,960. General Precision Laboratory Incorporated, Pleasantville, N. Y. Filed Sept. 30, 1952.

GPL

For Electrical Generators of Ultrasonic Waves, Television Cameras, Television Camera Control Units, Synchronizing Pulse Generators, Television Monitors, Television Switching Units, Television Receivers, Amplifiers, Power Supplies, Video Recording Monitors for Converting Television Signals Into Light Images Suitable for Recording as Motion Picture Images, Television Chains for Converting Motion Picture Images to Television Signals and Parts Thereof.
Claims use since June 21, 1951.

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Ser. No. 637,661. Maspeth Telephone & Radio Corporation, Brooklyn, N. Y. Filed Nov. 5, 1952. (Sec. 2f.)

MASPETH

For Telephone, Telegraph and Teletype Apparatus—Namely, Carrier Terminals, Switchboards, Repeaters, Coding Devices, Transmitters, Recorders, Receivers, Monitoring Devices, Relays Including Polar Relays and Associated Apparatus Therefor.
Claims use since December 1946.

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Ser. No. 638,300. Globe-Union Inc., Milwaukee, Wis. Filed Nov. 19, 1952.

FILPLATE

For Electronic Filter and By-Pass Units for Radio and Television Circuit Applications Comprising Electrically Connected Capacitors and Resistors Bonded to a High Dielectric Ceramic Base.
Claims use since Jan. 17, 1951.



Ser. No. 638,513. The Ambory Corporation, Hazel Park, Mich. Filed Nov. 24, 1952.

RAM

For Electrical Heating Elements and Electrical Immersion Water Heaters.
Claims use since Sept. 30, 1949.

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Ser. No. 638,901. Dewey C. Daubmeyer, doing business as Riviera Lamps, Fort Lauderdale, Fla. Filed Dec. 3, 1952.

*Riviera-Lite*

No claim is made to the word "Lite" apart from the mark as shown.
For Electric Lamps.
Claims use since June 7, 1952.

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Ser. No. 638,958. Kaye-Halbert Corporation, Culver City, Calif. Filed Dec. 4, 1952.

HIDEALIGHT

For Television Receiving Sets.
Claims use since Apr. 9, 1952.

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Ser. No. 641,156. Speer Carbon Company, St. Marys, Pa. Filed Jan. 22, 1953.




No claim is made to the word "Resistor" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 118,714, 379,691, and others.
For Fixed Carbon Resistors, Non-Conductive Coil Forms, and Iron Core Coil Forms With and Without Insulated Ends.
Claims use since December 1950.

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Ser. No. 641,193. Mallory Electric Corporation, Detroit, Mich. Filed Jan. 23, 1953.

MAGSPARK

For Ignition Coils and Ignition Distributors.
Claims use since June 6, 1952.

Ser. No. 641,383. Kord Manufacturing Co. Inc., New York, N. Y. Filed Jan. 27, 1953.

*Kord*

For Electric Fans—Namely, Pedestal Fans, Oscillating Fans, Non-Oscillating Fans, Window Ventilating Fans, Reversible Window Ventilators, Floor Circulating Fans, and Electric Fan-Heaters; Electric Stoves, Portable Electric Heaters, and Portable Electric Hot Plates.
Claims use since Oct. 1, 1945.

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Ser. No. 641,450. Albert J. Iovieno, doing business as Allied Hardware & Stamping Co., New Haven, Conn. Filed Jan. 28, 1953.

ALLY

For Electrical Outlet Boxes.
Claims use since on or about June 25, 1948.

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## CLASS 22

## GAMES, TOYS, AND SPORTING GOODS

Ser. No. 623,085. Solin Sporting Goods Company, New York, N. Y. Filed Jan. 2, 1952.




Applicant disclaims exclusive use of the words "Solin Athletic Clothing and Equipment for Champions" except in the association used in the drawing.
For Baseballs, Baseball Gloves, Baseball Bats, Basketballs, Boxing Gloves, Footballs, Football Helmets, Soccer Balls, Softballs, Softball Gloves, and Softball Bats.
Claims use since Oct. 31, 1951.

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Ser. No. 627,994. Barbee Bait Company, Fort Wayne, Ind. Filed Apr. 12, 1952.

SLO-POKE

For Artificial Fish Lures.
Claims use since Jan. 10, 1952.

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Ser. No. 630,820. Aluminum Specialty Company, Manitowoc, Wis. Filed June 6, 1952.

FIESTA

The drawing is lined for red and blue.
For Anodized Toy Aluminum Tea Sets for Children.
Claims use since on or about Mar. 28, 1952.

Ser. No. 636,560. Fawick Flexi-Grip Co., Akron, Ohio. Filed Oct. 13, 1952.

FLEXI-GRIP

No claim is made to the word "Grip" apart from the mark.

For Hand Grips Made of a Settable Plastic for Golf Clubs and Other Implements of Sport.

Claims use since about Feb. 1, 1947.

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Ser. No. 640,489. Bal Dolls, Inc., New York, N. Y. Filed Jan. 8, 1953.

CHILDREN'S WORLD

The word "Children's" is disclaimed apart from the mark as shown.

For Dolls.

Claims use since Sept. 10, 1952.

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Ser. No. 641,376. Elizabeth S. Scanlan, doing business as Aeroplane Tackle Manufacturing Co., Denver, Colo. Filed Jan. 30, 1953.

Aeroplane Spinner

The word "Spinner" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 325,738.

For Fishing Lures—Namely, Spinners.

Claims use since on or about Aug. 1, 1924.

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## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 588,068. Warren Tool Corporation, Howland, Ohio. Filed Nov. 18, 1949. (Sec. 2f.)

WARREN-TEED

For Hand Tools, Particularly Heavy Hand Tools—Namely, Sledges, Hammers, Mauls, Picks, Mattocks, Hoes, Bars, Wedges, Blacksmith Tools, Tongs, Railroad Track Tools, Adzes, Punches, Wrenches and Parts Thereof.

Claims use since February 1947.

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Ser. No. 591,919. John A. Eberly, Inc., Mohnton, Pa. Filed Feb. 3, 1950.

JOHN A. EBERLY

The name "John A. Eberly" appearing in the mark is the name of applicant's predecessor, now deceased.

For Knitting Machine Parts—Namely, Latch Needles, Spring Beard Needles, Sinkers, Dividers, Jacks, Transfer Points, Knocking-Over Bits, Yarn Guides, Selectors, Sliders, Yarn Fingers, and Jack Bed Springs; Sewing Machine Needles, Knitting Machine Attachments, Knitting Machine Tensions, Slot Openers, Slot Files, and Knitters' and Weavers' Special Scissors, Pliers, Wrenches, Threading Hooks, Thread Holders, Reed Hooks, Warpers' Hooks, Punches, and Special Files.

Claims use since January 1940.

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Ser. No. 616,764. Econaway Manufacturing Company, also known as Econaway Manufacturing Co., Bellevue, Mich. Filed July 21, 1951.

ECONAWAY

For Belt Splicing Unitary Apparatus Comprising Power Driven Belt Skiving Machine, Hand Operated Belt Cutter, and Hand Operated Belt Gluing Press; a Power Driven Belt Skiving Machine; a Hand Operated Belt Cutter; a Hand Operated Belt Gluing Press; and Replacement Parts Thereof.

Claims use since May 13, 1950.

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Ser. No. 617,738. Wheel Trueing Tool Company, Detroit, Mich. Filed Aug. 15, 1951.

TOPPER

For Diamond Impregnated Tools for Dressing and Trueing Grinding Wheels.

Claims use since July 16, 1951.

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Ser. No. 621,218. Mergenthaler Linotype Company, Brooklyn, N. Y. Filed Nov. 14, 1951.

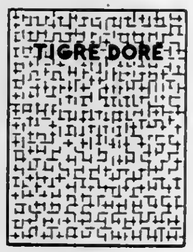
BLUE STREAK

For Metal Casting Machines for Producing Type Bars, and Parts Thereof.

Claims use since June 15, 1936.

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Ser. No. 625,415. Oscar Fox, Los Angeles, Calif. Filed Feb. 23, 1952.




The drawing is lined for the color gold.

For Jeweler Saw Blades.

Claims use since Apr. 15, 1947.

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Ser. No. 632,156. Cullman Wheel Company, Chicago, Ill. Filed July 5, 1952. (Sec. 2f as to "Cullman.")

Cullman Grip-Master

The word "Grip" is disclaimed apart from the mark as shown.

For Sprocket Wheels for All Types of Chain-Driven Machinery.

Claims use since on or about May 1, 1950, as shown; and since 1904 as to "Cullman."



Ser. No. 632,544. Joseph Zalkind, New York, N. Y. Filed July 14, 1952.

PRINTLINE N.Y. Snaporator

Applicant disclaims the terminology "Printline N. Y." except as shown in conjunction with the remainder of the mark.

For Office Machines for Separating and Removing the Manifold Carbons From Between the Writing Sheets.

Claims use since July 1, 1949.

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Ser. No. 633,568. Consolidated Sewing Machine and Supply Co., Inc., New York, N. Y. Filed Aug. 7, 1952.

CONSEW CLIPPER

The term "Clipper" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 287,121, 293,981, and 389,145.

For Garment Trimming Machines.

Claims use since Feb. 2, 1951.

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Ser. No. 641,172. Cameron Machine Company, Brooklyn, N. Y. Filed Jan. 23, 1953.

Hydrair

For Slitting Wheel Assembly in a Machine for Automatically Slitting Webs of Paper or Other Flexible Material.

Claims use since Dec. 22, 1952.

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Ser. No. 641,546. Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Filed Jan. 30, 1953.

AL-FIN

Applicant claims ownership of Registration No. 419,046.

For Bimetallic Articles—Namely, Internal Combustion Engines, Pump Cylinders, Journal Bearings, Pistons, and Gears.

Claims use since on or about Feb. 3, 1944.

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Ser. No. 641,876. Victaulic Company of America, Union, N. J. Filed Feb. 6, 1953.

"VIC"

For T Wrenches, Pipe Wrenches, Open End Wrenches, Pipe Cutting Tools, and Pipe Grooving Tools.

Claims use since Jan. 14, 1953.

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Ser. No. 643,541. Diamond Saw Works, Inc., Buffalo, N. Y. Filed Mar. 12, 1953. (Sec. 2f.)

Sterling

Applicant claims ownership of Registration No. 380,133.

For Metal Cutting Saw Blades and Frames.

Claims use since 1900.

Ser. No. 644,709. The American Tool Works Co., Cincinnati, Ohio. Filed Apr. 6, 1953. (Sec. 2f.)

AMERICAN

For Engine Lathes and Radial Drills.

Claims use since Apr. 12, 1898.

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## CLASS 24

### LAUNDRY APPLIANCES AND MACHINES

Ser. No. 642,677. Marshall-Wells Company, Duluth, Minn. Filed Feb. 24, 1953.

Master Matic

For Laundry Washing Machines and Laundry Dryers.

Claims use since Feb. 13, 1953.

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## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 609,263. Tura, Inc., New York, N. Y. Filed Jan. 25, 1951.

Profile Specs

Applicant disclaims "Specs" apart from the mark as shown.

For Spectacles and Spectacle Frames.

Claims use since Dec. 14, 1950.

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Ser. No. 620,236. Southern Instruments Limited, Fernhill, Hawley, Camberley, Surrey, England. Filed Oct. 19, 1951.

MINIRACK

Applicant claims ownership of British Registration No. 651,575, dated Sept. 10, 1946.

For Assembled Electronic Amplifier Units for Use With Measuring and Testing Instruments, Electronic Apparatus for Measuring Time Periods for Use in Oscillographs, and Wired Sub-Assemblies of Parts of Cathode Ray Oscillographs.

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Ser. No. 623,697. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Jan. 17, 1952.

THERMALITE

For Electrical Overload Indicators for Electrical Induction Apparatus Such as Transformers.

Claims use since Dec. 4, 1951.

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Ser. No. 624,521. Olympia Büromaschinenwerke A. G., Wilhelmshaven, Germany. Filed Jan. 9, 1952.

Olympia

Applicant claims ownership of Registration No. 284,827.

For Calculating Machines.

Claims use since March of 1938 as shown; and since July 1951 in commerce between Germany and the United States.

Ser. No. 633,451. Fingerprint, Incorporated, Milwaukee, Wis. Filed Aug. 4, 1952.

**DIGITAB**

For Fingerprint Machine and Apparatus Including an Ink Pad and Paper Roll Both of Which Are Associated With the Machine.
Claims use since June 23, 1952.

Ser. No. 636,805. The Reflectone Corporation, Stamford, Conn. Filed Oct. 17, 1952.

**TRC**

For Instruments for Measuring Thrust Forces, Said Instruments Comprising Spring Actuated Parallel Bars.
Claims use since May 10, 1952.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 600,509. Richmond Broom Company, Richmond, Va. Filed July 11, 1950.

*Blue Ribbon*

For Household Brooms.
Claims use since 1920.

Ser. No. 605,680. Harry Reso, New York, N. Y. Filed Oct. 31, 1950.

YORKMINSTER

For Artists' Brushes.
Claims use since Dec. 30, 1947.

Ser. No. 641,327. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Jan. 26, 1953.

*Velvetip*

For Paint Brushes.
Claims use since Nov. 12, 1951.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 589,045. Sachs Quality Stores, Inc., New York, N. Y. Filed Dec. 8, 1949. (Sec. 2f as to "Sachs.")

SACHS Quality

The word "Quality" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 281,244, 284,338, and 433,350.
For Bedroom Furniture Comprising Beds, Dressers, Cribs, Wardrobes, Bedroom Chairs, Bedroom Picture Frames, Bookcases, Bureaus, Bedroom Mirrors, Vanities, Bedroom Benches; Living-Room Furniture Comprising Living-Room Couches, Chests, Living-Room Chairs, Living-Room Tables, Living-Room Mirrors, Magazine Racks, Benches, Living-Room Picture Frames, Bookcases, Studio Couches, Hide-Away Beds, Chair Beds, Davenports, Sofas, Love Seats; Dining-Room Furniture Comprising Tables, Chairs, Servers, Tea Wagons, Sideboards, Buffets, Bookcases, Dining-Room Mirrors, Dining-Room Picture Frames; Bathroom Furniture Comprising Cabinets, Stools, Benches; Kitchen Furniture Comprising Tables, Chairs, Cabinets; Office Furniture Comprising Desks, Filing Cabinets, Box Files for Letters, Bookcases, Office Picture Frames, Tables, Chairs, and Office Mirrors; Breakfast Furniture Sets, Cabinets for Radio and Television Receiving Sets and Phonograph Apparatus.
Claims use since Aug. 22, 1945, on the mark as shown; and since February 1927 as to "Sachs."

Ser. No. 630,737. Temple Lab Inc., Brooklyn, N. Y. Filed June 4, 1952.

*Bacrite*

For Automobile Seats of Slat Construction Adapted To Be Placed Over the Regular Seat To Provide Comfort and Good Posture and Improved Body Tone, and Bed Mats of Slat Construction Adapted To Be Placed Over the Regular Mattress for Similar Purposes.
Claims use since on or about June 7, 1948.

Ser. No. 633,879. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 13, 1952.

**Onotuft**

Applicant claims ownership of Registration No. 300,660.
For Mattresses.
Claims use since Aug. 19, 1932.



## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 601,938. Mitchell Parker, doing business under the fictitious name of Mitchell Parker Manufacturing Company, Sharpsburg, Pa. Filed Aug. 8, 1950.

*Royal-Lite*

No exclusive right is claimed for the use of the word "Lite" except as part of the mark shown.
For Imitation Candles Which Burn by Means of a Hidden Fuel Supply.
Claims use since July 6, 1949.

Ser. No. 617,579. Coen Company, San Francisco, Calif. Filed Aug. 11, 1951.




For Fuel Burners, and Parts Thereof, With Pressure Controls To Regulate the Rate of Flow of Air and Fuel for Efficient Combustion.
Claims use since May 1, 1951.

Ser. No. 628,877. Robbins & Myers, Inc., Springfield, Ohio. Filed Apr. 29, 1952. (Sec. 2f.)

PROPELAIR

Applicant claims ownership of Registrations Nos. 281,581 and 527,603.
For Industrial Ventilating Fans in the Nature of Exhaust Fans and Blowers—Namely, Belt Driven Fans, Direct Driven Fans, Extension Shaft Fans, Drum Type Direct Fans, and Drumless Direct Fans.
Claims use since Jan. 9, 1947.

Ser. No. 640,458. Hancock Iron Works, Pontiac, Mich. Filed Jan. 7, 1953. (Sec. 2f.)

HANCOCK

For Outdoor Fireplace Units.
Claims use since Nov. 1, 1932.

Ser. No. 641,573. The Quincy Stove Manufacturing Company, Quincy, Ill. Filed Jan. 30, 1953.

*Monogram*

Applicant claims ownership of Registration No. 297,684.
For Portable Ranges, Circulator Space Heaters, and Furnaces—Namely, Ranges for Both Heating and Cooking Purposes and Heated by Gas, or by Combinations of (1) Gas and Coal, or (2) Gas and Oil, (3) Coal and Electricity, (4) Oil and Electricity; or (5) Gas and Electricity; Circulator Space Heaters Fueled by Gas, Coal or Oil; and Oil Fueled Furnaces.
Claims use since Jan. 1, 1908.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 628,010. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Apr. 12, 1952.



The representation of component parts of the goods is disclaimed apart from the mark as shown.
For Shaft Seals for Preventing Leakage of Fluid Around Movable Shafts.
Claims use since May 2, 1951.

## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 620,947. Arthur S. Alberts, New York, N. Y. Filed Nov. 7, 1951.

*Holiday Music*

The word "Music" is disclaimed apart from the mark as shown.
For Grooved Phonograph Records.
Claims use since Sept. 18, 1951.

Ser. No. 634,596. Jennings Musical Instruments Limited, Dartford, Kent, England. Filed Aug. 28, 1952.

UNIVOX

Applicant claims ownership of British Registration No. 705,032, dated Feb. 19, 1952.
For Portable Electronic Music Tone Reproducing Keyboard Instrument Used as an Attachment for Pianos and Organs or for Use Independently Thereof.

Ser. No. 637,792. The Record Guild of America Inc., New York, N. Y. Filed Nov. 7, 1952.



For Children's Grooved Phonograph Records.
Claims use since Mar. 1, 1952.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 485,089. Lake Chemical Co., also doing business as Markal Company, Chicago, Ill., assignor to The Markal Co., Chicago, Ill. Original filed, act of 1920, June 27, 1945; amended to application under act of 1946, Principal Register, July 14, 1949. (Sec. 2f.)

**STICK-O-PAINT**

For Marking Implements in the Form of Sticks of Pigment in Combination With a Carrier.
Claims use since Mar. 29, 1938.

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Ser. No. 620,345. Keuffel & Esser Company, Hoboken, N. J. Filed Oct. 23, 1951.

**STABILENE**

For Glass Tracing Cloth and Glass Reproduction Cloth.
Claims use since June 1949.

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Ser. No. 623,730. The Markal Co., Chicago, Ill. Filed Jan. 17, 1952. (Sec. 2f.)

**PAINTSTIK**

For Crayon-Like Marking Implements for Marking on Metal, Wood, Cardboard, Porcelain, Glass, Marble, Etc.
Claims use since Feb. 1, 1943.

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Ser. No. 626,749. Charles L. Rubinatein, doing business as Ruby Producta Co., Milwaukee, Wis. Filed Mar. 20, 1952.




The picture of the girl is fanciful. Applicant claims ownership of Registration No. 380,320.
For Paper Products—Namely, Chef's Apron and Cap Set, Table Covering, Beverage Napkins, Dinner Napkins, Doilies, Place Mats, Sleeves With Sleeve-Like Paper Frills for Use as Chop Holders, Garnishets or Skewers With Paper Frills for Poultry Legs and the Like, Tissue Paper, Guest Towels, Shelf Paper, Cake Pan Liners, and Wrapping Paper.
Claims use since Feb. 11, 1942.

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Ser. No. 631,769. Walter Paper Company, Inc., Miami, Fla. Filed June 25, 1952.

READY MONEY

For School Fillers and Tablets, Composition Books, and Pencils.
Claim use since July 1950.

Ser. No. 634,344. Riegel Paper Corporation, New York, N. Y. Filed Aug. 22, 1952.

**SNOPAQUE**

Applicant claims ownership of Registration No. 296,974.
For Kraft, Sulphite, and Glassine Paper, Either Waxed or Unwaxed.
Claims use since on or about Mar. 1, 1932.

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Ser. No. 636,121. John Dempnock, Jr., doing business as The Demp-Nock Company, Van Dyke, Mich. Filed Oct. 3, 1952.

DEMP NOCK

For Pressure Sensitive Stencils.
Claims use since May 28, 1952.

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Ser. No. 636,929. Gilbert Paper Company, Menasha, Wis. Filed Oct. 21, 1952.

**'SUPERASE'**

For Bond Paper and Copy and Writing Paper.
Claims use since Oct. 10, 1952.

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Ser. No. 637,261. American Lead Pencil Company, Hoboken, N. J. Filed Oct. 28, 1952.

***Permi-Kolor***

Applicant disclaims the word "Kolor" apart from the mark as shown.
For Lead Pencils.
Claims use since Sept. 26, 1952.

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Ser. No. 637,397. Peli-Barl Farms, Inc., Woodstock, Ill. Filed Oct. 30, 1952.



For Partially Printed Record Books for Recording Seed Sales and Purchases.
Claims use since November 1948.

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Ser. No. 638,395. Berlin & Jones Co., Inc., New York, N. Y. Filed Nov. 21, 1952.

WINVELOPE

For Correspondence Envelopes.
Claims use since July 1950.



Ser. No. 638,542. Lakeside Central Company, Chicago, Ill. Filed Nov. 24, 1952.



For Writing Tablets, Note and Composition Books, Blank Spelling and Music Books, Drawing Books, Stenographic Note Books, Memorandum Books, Fillers and Filler Pads for Use With Loose Leaf Books, Typewriter Paper and Second Sheets Both Padded and Not Padded, Scratch Pads, Index Cards and Guides, Art Paper, Packages of Note Sheets, and Box Stationery Containing Writing Paper and Envelopes.
Claims use since Apr. 1, 1943.

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Ser. No. 638,543. Lakeside Central Company, Chicago, Ill. Filed Nov. 24, 1952. (Sec. 2f.)

**SEAL QUICK**

Applicant claims ownership of Registration No. 379,489.
For Mailing Envelopes.
Claims use since Mar. 2, 1939.

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Ser. No. 638,659. Premier Dental Products Co., Philadelphia, Pa. Filed Nov. 26, 1952.

**PREMIER**
**LINENIZED**

Applicant disclaims the word "Linenized" apart from the mark as shown.
For Disposable Paper Towels and Paper Bracket-Table Covers Used by Members of the Dental and Medical Professions.
Claims use since July 1951.

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Ser. No. 641,098. Sterling Pulp & Paper Company, Eau Claire, Wis. Filed Jan. 21, 1953.

**JOY**

For Waxed Papers, Paper Towels, Paper Toilet Tissue, Paper Napkins, and Paper Facial Tissues.
Claims use since May 28, 1952.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 597,168. Walter F. Rothe, doing business as The Universal Calendar Company, Washington, D. C. Filed May 9, 1950.

ACTIVATED

For Wall Calendars.
Claims use since Oct. 7, 1947.

Ser. No. 609,897. United States Naval Academy Alumni Association Inc., Annapolis, Md. Filed Sept. 29, 1950.

*Shipmate*

Applicant claims ownership of Registration No. 360,679.
For Periodical Publication (at Present a Periodically-Issued Magazine of the Alumni of the United States Naval Academy Appearing Monthly or Otherwise as Designated by the Board of Trustees of Said Association.
Claims use since at least as early as May 1938.

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Ser. No. 622,008. Birmingham Paper Company, Birmingham, Ala. Filed Dec. 3, 1951.




The representation of the drum major is entirely fictitious and is not the likeness of any particular individual.
Applicant claims ownership of Registration No. 353,542.
For Catalogs, Drawings, and Printed Charts.
Claims use since 1936.

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Ser. No. 631,109. E. Leitz, Inc., New York, N. Y. Filed June 12, 1952.

*Leica* photography

No exclusive claim is made to the word "Photography" apart from the mark as shown on the drawing.
Applicant claims ownership of Registrations Nos. 275,993, 424,796, and others.
For Periodic Publication.
Claims use since December 1932.

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Ser. No. 631,118. Norcross, Inc., New York, N. Y. Filed June 12, 1952.

A PIXIE CARD

No claim is made to the term "Card," apart from the mark shown.
For Greeting Cards, Printed Greeting Folders, Printed Seals, and Printed Decorative Tags.
Claims use since on or about Sept. 7, 1951.

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Ser. No. 633,973. Family Shopper, Inc., New York, N. Y. Filed Aug. 15, 1952.

**FAMILY SHOPPER**

Applicant disclaims the word "Shopper" except as shown.
For Periodical Publications.
Claims use since June 26, 1952.

Ser. No. 637,895. United Grocers, Ltd., San Francisco, Calif. Filed Nov. 10, 1952.




The lining on the drawing is for shading purposes only. The name "Bonnie Hubbard" and the picture of the woman are fictional.

For Column for Publications Issued Periodically.

Claims use since Oct. 2, 1952, as to the mark shown; and since June 28, 1951, as to "Bonnie Hubbard's Kupboard."

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Ser. No. 638,489. International Telephone and Telegraph Corporation, New York, N. Y. Filed Nov. 22, 1952.

**IT&T**

Applicant claims ownership of Registration No. 567,391.

For Descriptive Brochures and Handbooks Issued From Time to Time.

Claims use since Aug. 18, 1947.

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Ser. No. 639,710. The Parents' Institute, Inc., New York, N. Y. Filed Dec. 18, 1952.

Humpty Dumpty's
**READ-ALOUD STORY ANNUAL**
For Little Children

Applicant does not make any claim to the words "Read-Aloud Story Annual" apart from the mark. Applicant claims ownership of Registration No. 567,527.

For Magazine Published Quarterly.

Claims use since Dec. 1, 1952.

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Ser. No. 639,711. The Parents' Institute, Inc., New York, N. Y. Filed Dec. 18, 1952.

**The Children's Digest**
**STORY ANNUAL**

Applicant does not make any claim to the words "Digest Story Annual" apart from the mark. Applicant claims ownership of Registration No. 540,051.

For Magazine Published Quarterly.

Claims use since Dec. 1, 1952.

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Ser. No. 639,795. R. Clark Tucker, Baltimore, Md. Filed Dec. 19, 1952.

Ratiogram
Systems

Applicant disclaims the word "Systems" apart from the mark as shown.

For Book.

Claims use since October 1939.

Ser. No. 639,961. Lula A. Shaver, Middletown, N. Y. Filed Dec. 23, 1952.




The word "Book" is disclaimed as used separate and apart from the mark as shown.

For Books.

Claims use since Oct. 23, 1952.

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Ser. No. 640,174. Tanners' Council of America, Inc., New York, N. Y., assignor to Ruth Kerr Fries, New York, N. Y. Filed Dec. 30, 1952.

*Fashion footprints*

Applicant disclaims exclusive use of the term "Fashion" apart from the mark as shown.

For Section of Publication Issued From Time to Time.

Claims use since June 20, 1952.

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Ser. No. 640,211. Joseph Clemens Gretter, doing business as Gretter Features, Wilton and Norwalk, Conn. Filed Dec. 31, 1952.

**IN THIS WORLD**

For Newspaper Feature, Published From Time to Time, Containing Republished Items of Past Events With Illustration and Descriptive Matter Rewritten in Whole or Part.

Claims use since on or about Oct. 3, 1952.

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Ser. No. 641,665. Atlas Powder Company, Wilmington, Del. Filed Feb. 3, 1953.

CHEMMUNIQUÉ

For Technical Bulletin Issued From Time to Time.

Claims use since Feb. 7, 1949.

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Ser. No. 641,960. The Parents' Institute, Inc., New York, N. Y. Filed Feb. 9, 1953.

**FUNMAGAZINE**

For Magazine Published Quarterly.

Claims use since Jan. 15, 1953.



## CLASS 39
## CLOTHING

Ser. No. 549,251. Hickok Manufacturing Co. Inc., Rochester, N. Y. Filed Feb. 10, 1948. (Sec. 2f.)

**KlipTIP**

Applicant claims ownership uf Registration No. 374,326.

For Braces.

Claims use since Mar. 16, 1937.

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Ser. No. 602,234. United States Rubber Company, New York, N. Y. Filed Aug. 15, 1950.

U.S. TUMBLE BLOCK

No claim is made to the letters "U. S." apart from the mark shown.

For Shoe Soles.

Claims use since June 21, 1950.

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Ser. No. 625,506. The Ward-Stilson Company, Anderson, Ind. Filed Feb. 25, 1952.

**POINT-RITE**

Applicant claims ownership of Registration No. 262,374.

For Collars for Shirts for Men and Boys.

Claims use since Oct. 1, 1928.

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Ser. No. 625,822. Harry Rosenberg, doing business under the name Cardinal Neckwear, New York, N. Y. Filed Mar. 1, 1952.



No claim is made to the representation of the necktie apart from the mark as shown. Applicant claims ownership of Registration No. 534,511.

For Men's Neckwear—Namely, Four-in-Hand Ties, Bow Ties, and Scarves.

Claims use since November 1951.

Ser. No. 627,430. Freeman Clothing Company, Chicago, Ill. Filed Apr. 2, 1952.



For Men's Clothing—Namely, Suits, Coats, Pants, and Overcoats.

Claims use since December 1950.

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Ser. No. 630,673. Victor Elie Halk, Mexico D. F., Mexico. Filed June 3, 1952.

*Cavil*

Applicant claims ownership of Mexican Registration No. 38,410, dated Aug. 27, 1938.

For Brassières and Garter Belts for Ladies.

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Ser. No. 636,832. The Willow Shirt Corporation, New Haven, Conn. Filed Oct. 17, 1952. (Sec. 2f.)

HUGNECK

Applicant claims ownership of Registration No. 416,180.

For Men's and Boys' Dress Shirts.

Claims use since on or about July 15, 1943.

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Ser. No. 637,468. Wallach's, Inc., New York, N. Y., and elsewhere. Filed Oct. 31, 1952.

Racquet Club

Applicant claims ownership of Registration No. 562,564.

For Hats for Men and Boys.

Claims use since March 1951.

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Ser. No. 638,052. Artistic Foundations, Inc., New York, N. Y. Filed Nov. 14, 1952.

*anatomique*

For Girdles.

Claims use since Oct. 21, 1952.

Ser. No. 639,943. Litt & Co., New York, N. Y. Filed Dec. 23, 1952.

Craely

Applicant claims ownership of Registration No. 386,293.
For Women's, Misses', and Juniors' Dresses, Blouses, Skirts, Shorts, and Slacks.
Claims use since July 1952.

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Ser. No. 640,767. Yolande Corporation, New York, N. Y. Filed Jan. 14, 1953.

Sweet Talk

For Panties for Women.
Claims use since Aug. 12, 1952.

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## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 576,345. Mills Manufacturing Corporation, New York, N. Y. Filed Mar. 30, 1949.

SHOLDEZE

Applicant claims ownership of Registration No. 520,963.
For Shoulder Strap Cushion Attachment of Foam Rubber To Prevent Skin Irritation.
Claims use since Mar. 17, 1949.

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Ser. No. 578,982. Lenthéric Incorporated, New York, N. Y. Filed May 17, 1949.

pirouette

For Spiral Combs.
Claims use since Mar. 10, 1949.

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Ser. No. 595,182. Carol Wood, Ocean Beach, San Diego, Calif. Filed Apr. 3, 1950.

BLOW CURL COMB

The words "Curl Comb" are disclaimed apart from the mark as shown.
For Hair Curling Comb Having Hollow Teeth for Directing Air to the Hair.
Claims use since Feb. 27, 1950.

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Ser. No. 630,535. The Hang Over Company, Chicago, Ill. Filed May 31, 1952.

hang-over

For Fabric Strap Having Snap Fasteners Attached to Each End for Suspension Over a Wall Fixture, Such as a Towel Rack, for Supporting Hose or Like Apparel To Prevent It From Falling on the Floor While Drying.
Claims use since Apr. 14, 1952.

Ser. No. 631,838. Charles A. Zemis, Lawrence, Mass. Filed June 26, 1952.



For Safety Pins.
Claims use since June 12, 1952.

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Ser. No. 633,800. United Elastic Corporation, Easthampton, Mass. Filed Aug. 12, 1952.

PERMOBRAID

Applicant claims ownership of Registration No. 391,796.
For Narrow Elastic Braids.
Claims use since Nov. 1, 1939.

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Ser. No. 637,110. Martha B. Burns, Wichita, Kans. Filed Oct. 24, 1952.




The representation of the goods and the words "Garment Adjuster" are disclaimed apart from the mark as shown.
For Clip-On Adjuster Comprising Two Clips Joined Together by an Elastic Band Which Facilitates the Fitting of a Garment to a Display Form.
Claims use since Oct. 3, 1952.

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Ser. No. 640,741. Johnson & Johnson, New Brunswick, N. J. Filed Jan. 14, 1953.

KETON

Applicant claims ownership of Registrations Nos. 424,946 and 507,965.
For Combs.
Claims use since June 12, 1945.

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Ser. No. 640,742. Johnson & Johnson, New Brunswick, N. J. Filed Jan. 14, 1953.

Tek

Applicant claims ownership of Registrations Nos. 258,849 and 551,649.
For Combs.
Claims use since Mar. 7, 1928.

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Ser. No. 641,378. Helene Pessl, Inc., New York, N. Y. Filed Jan. 27, 1953.

Little Lady

Applicant claims ownership of Registrations Nos. 425,100 and 416,668.
For Comb, Mirror, and Brush Sets, and Comb and Hand Mirror Sets.
Claims use since Jan. 21, 1953.



Ser. No. 641,625. The Manhattan Shirt Company, New York, N. Y. Filed Feb. 2, 1953.

MANLUSTRE

For Buttons of Non-Metallic Material.
Claims use since Sept. 30, 1952.

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## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 615,624. Chicopee Manufacturing Corporation, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y., a corporation of New York. Filed June 25, 1951.

CHIXTEX

Applicant claims ownership of Registration No. 377,589.
For Cotton Linings for Garments Sold by the Piece, by the Yard, or in the Bolt.
Claims use since June 1, 1951.

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Ser. No. 615,915. United States Rubber Company, New York, N. Y. Filed June 29, 1951.

FIBERTHIN

For Woven Textile Fabric Formed of Continuous Synthetic Filaments.
Claims use since December 1950.

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Ser. No. 618,576. Goodman & Thelse, Inc., New York, N. Y. Filed Sept. 10, 1951.

ONION SKIN

For Piece Goods of Rayon, Nylon, Silk, Cotton, Wool, and Combinations Thereof for Making Into Wearing Apparel.
Claims use since June 4, 1951.

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Ser. No. 627,733. Samuel Chapman Inc., New York, N. Y. Filed Apr. 8, 1952.

Ceil Chapman

Applicant's mark is the name of the vice president of the corporation. Applicant claims ownership of Registration No. 429,748.
For Fabrics Made of Cotton, Wool, Silk, Linen, and Synthetic Fibers.
Claims use since January 1940.

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Ser. No. 628,363. McCampbell & Company, Inc., New York, N. Y. Filed Apr. 19, 1952.

McCAMPBELL BOS'N DENIM

The words "McCampbell" and "Denim" are disclaimed.
For All Cotton Sports Denim, a Fabric.
Claims use since Mar. 13, 1952.



Ser. No. 630,735. William Skinner & Sons, Holyoke, Mass., and New York, N. Y. Filed June 4, 1952. (Sec. 2f as to "Skinner.")

Skinner
MON REVE

Applicant claims ownership of Registrations Nos. 50,198 and 518,840.
For Fabrics of Silk, Wool, Cotton, Man Made Fibers, and Combinations Thereof.
Claims use since May 27, 1952, on the mark as shown; and since 1848 as to "Skinner."

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Ser. No. 632,662. Comptoir des Textiles Artificiels, Paris, France. Filed July 17, 1952.

Citalc

Priority under Sec. 44(d). French application filed Jan. 17, 1952, Registration No. 506,977, dated Jan. 17, 1952. The drawing is lined to reproduce the lines of the mark.
For Textile Fabrics Composed of Hair, Wool, Silk, and Regenerated Cellulose Used for Upholstery, Seat Covers, Baggage Covers, and Furniture Covers.

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Ser. No. 633,280. United Elastic Corporation, Easthampton, Mass. Filed July 30, 1952.

PERMOFLEX

Applicant claims ownership of Registrations Nos. 389,096 and 390,422.
For Wide Elastic Fabrics for Corsets, Girdles, and Other Garments.
Claims use since May 10, 1940.

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Ser. No. 635,350. Deering, Milliken & Co., Inc., New York, N. Y. Filed Sept. 17, 1952.

LORETTE

Applicant claims ownership of Registration No. 209,300.
For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof.
Claims use since in or about 1890.

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Ser. No. 635,570. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Filed June 13, 1952.

Drawinella

Applicant claims ownership of German Registrations Nos. 469,359, dated Sept. 27, 1934, and 472,945, dated Feb. 4, 1935.
For Balloon, Airplane, Sailcloth, Umbrella, Lace, and Gauze Fabrics; Textile Carpets and Rugs; Window and Shower Curtains; and Textile Ribbons.

Ser. No. 635,718. Quaker Lace Company, Philadelphia, Pa. Filed Sept. 24, 1952.

Quaker

Applicant claims ownership of Registrations Nos. 87,800 and 87,801.
For Tablecloths and Bedspreads.
Claims use since March 1932.

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Ser. No. 638,974. Princeton Knitting Mills, Inc., New York, N. Y. Filed Dec. 4, 1952.

Acrella

For Knitted Fabrics Made of Synthetic and Wool Fibers.
Claims use since Aug. 13, 1952.

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Ser. No. 639,417. Comptoir de l'Industrie Cotonnière, Etablissements Boussac, Société à Responsabilité Limitée, Paris, France. Filed Dec. 13, 1952.

BOUSSAC

Applicant claims ownership of French Registration No. 429,259, dated Apr. 27, 1948.
For Textile Fabrics Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon.

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Ser. No. 640,046. Ostrow Textile Co., Ltd., New York, N. Y. Filed Jan. 12, 1953.

SAN JUAN

For Blankets.
Claims use since during the year 1940.

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Ser. No. 641,090. The Royal Rubber Company, Akron, Ohio. Filed Jan. 21, 1953.

ROYL-AIRE

For Textile Carpets and Carpeting Having a Rubber Cushion Backing.
Claims use since February 1949.

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Ser. No. 641,148. Newnan Cotton Mills, Newnan, Ga. Filed Jan. 22, 1953.

Newlor

Applicant claims ownership of Registration No. 473,351.
For Textile Fabrics of Wool and Synthetic Fibres.
Claims use since Dec. 29, 1952.

Ser. No. 641,674. Drapo Fabrics, Inc., New York, N. Y. Filed Feb. 3, 1953.

Drapo

For Canvas and Wool Interlining Fabrics, in the Roll and by the Yard.
Claims use since Oct. 30, 1952.

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Ser. No. 641,703. Duraloom Carpet Mills, Inc., New York, N. Y. Filed Feb. 2, 1953.

Astra

For Textile Carpets.
Claims use since Jan. 2, 1952.

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Ser. No. 641,721. Jeff Goldstein, Inc., New York, N. Y. Filed Feb. 4, 1953.

DYN-A-SAUR

For Textile Fabrics in the Piece Made of Synthetic Fibres.
Claims use since Dec. 2, 1952.

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Ser. No. 641,860. Pepperell Manufacturing Company, Boston, Mass. Filed Feb. 6, 1953.

ARGUS

Applicant claims ownership of Registration No. 53,832.
For Blankets.
Claims use since Jan. 9, 1953.

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## CLASS 43

### THREAD AND YARN

Ser. No. 590,582. The Clark Thread Company, Wilmington, Del., and Clarkdale, Ga., now by change of name and merger Coats & Clark Inc. Filed Jan. 10, 1950. (Sec. 2f as to "Clark's.")

CLARK'S ANCHOR

Applicant disclaims the background design apart from the mark as shown. Applicant claims ownership of Registrations Nos. 54,934, 59,158, and others.
For Stranded Cotton.
Claims use since May 26, 1948, on the mark as shown; and since 1812 as to "Clark's."



Ser. No. 632,253. Leidsche Wolspinnerij N. V., Leiden, Netherlands. Filed July 8, 1952.

BREIGENOTEN

The term "Breigenoten" means "Knitting Companions."
Applicant claims ownership of Dutch Registration No. 107,377, dated Dec. 29, 1950.
For Woollen, Cotton, and Mixed Knitting Yarns.

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## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 630,437. George W. Phelan, Union City, N. J. Filed May 28, 1952.

DISKWIK

For Dental Abrasive Disc Holders and Dispensers.
Claims use since May 16, 1951.

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Ser. No. 635,176. F. and M. Distributing Company, Little Rock, Ark. Filed Sept. 12, 1952.

Thin-nette

The word "Thin" is disclaimed apart from the mark as shown.
For Prophylactics.
Claims use since July 1, 1952.

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## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Ser. No. 590,055. American Stores Company, Philadelphia, Pa. Filed Dec. 29, 1949.

Bala Club

For Imitation Strawberry Soda, Imitation Grape Soda, Imitation Cherry Soda, Colored Cream Soda, Cream Soda, Birch Beer, Root Beer, Sarsaparilla, Orange Soda, and Golden Ginger Ale.
Claims use since Dec. 30, 1944.

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Ser. No. 628,960. Saegertown Ginger Ale Co., Saegertown, Pa. Filed Apr. 30, 1952. (Sec. 2f.)

SAEGERTOWN

Applicant claims ownership of Registration No. 294,453.
For Non-Alcoholic Maltless Soft Drinks.
Claims use since 1919.

Ser. No. 631,453. D. E. Winebrenner Co., Inc., Hanover, Pa. Filed June 19, 1952.

SHADE

For Concentrate Used in Making Maltless Soft Drinks.
Claims use since May 12, 1952.

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Ser. No. 636,704. Lewis Carl Grelser, doing business as General Flavoring Extract Co., Cincinnati, Ohio. Filed Oct. 16, 1952. (Sec. 2f.)

Honeymaid

Applicant claims ownership of Registration No. 290,064.
For Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Syrups and Extracts for Making the Same.
Claims use since Aug. 15, 1930.

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## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 567,054. Steak n Shake, Inc., Bloomington, Ill. Filed Oct. 15, 1948.

For Ground Meat of Beef and Pork, Baked Ham, Ground Meat Sandwiches, Mixed Ground Meat and Vegetable Sandwiches, Mixed Ground Meat and Cheese Sandwiches, Canned Beans, Ice-Cream, Milk Shakes, Malted Milk Shakes, Crackers, Sugar, Frozen Cut Potatoes, Chili, Chili-Powder, Chili Sauce, Pickles, Tomato Ketchup, Coffee.
Claims use since Feb. 1, 1936.

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Ser. No. 582,353. S. & S. Heyman, Ltd., New York, N. Y. Filed July 22, 1949.

GREEN Ribbon

The lines are not representative of color but are actually a part of the mark.
For Meats and Meat Products—Namely, Calves' Sweetbreads, Calves' Tongues, Calves' Brains, Calves' Heads, Calves' Livers, Calves' Feet, Veal Kidneys, Lamb Fries, Lamb Tongues, Lamb Kidneys, Smoked Beef Tongues, Fresh Beef Tongues, Corned Beef Tongues, Beef Sweetbreads, Beef Kidneys, Ox Tails, Corned Briskets, Honeycomb Tripe, Pork Tenderloins, Smoked Pork Butts, Smoked Hams, Ready-To-Eat Hams, Rolled and Boned Hams, Fresh Ham, Bacon, Smoked Pork Shoulders, Fresh Pork

Shoulders, Pork Loins, Sausages, Corned Pork, Larding Pork, Lard, French Pigs' Feet, Pigs' Knuckles, Roasting Pigs, Virginia Hams, Boiled Ham, Frankfurters, Liverwurst, Baloney, Genoa Salami, All Beef Salami, Ham Baloney, Head Cheese, Cervelat, Canned Ham, Canned Luncheon Meat, Veal Cuts, Lamb Cuts, Beef Cuts, Pork Cuts, Mutton Cuts; and Dressed Fowl—Namely, Chickens, Turkeys, Ducks, Squabs, and Geese.

Claims use since May 1939.

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Ser. No. 585,278. C. E. Grosjean Rice Milling Co., San Francisco, Calif. Filed Sept. 24, 1949.

ARCO IRIS

The drawing is lined for red and gold. The English Translation of the trade-mark is "Rainbow."

For Rice.

Claims use since June 1935.

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Ser. No. 587,578. Nixon & Company (Nebraska), Omaha, Nebr. Filed Aug. 29, 1949. (Sec. 2f as to "Nixon's.")

NIXON'S




The drawing is lined for red and blue. No claim is made to the words "Economy," "Condition," and "Finish," and "16% Protein" except when used as a part of this trade-mark.

For Molasses Stock Feed Containing 16% Protein.

Claims use since Aug. 10, 1949; and since 1891 as to the name "Nixon's."

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Ser. No. 591,828. Francisco Celestino Trigo Marin, Valencia, Spain. Filed Feb. 1, 1950.



Applicant claims ownership of Spanish Registration No. 23,302, dated Mar. 14, 1916.

For Sweet Capsicum, Fresh Tomatoes, Canned Tomato Puree, Canned Artichokes, Canned Peas, Canned Grapes, Canned Peaches, and Canned Apricot Pulp.

Ser. No. 592,949. Dominion Tar & Chemical Company, Limited, Montreal, Quebec, Canada, assignee of Standard Chemical Company, Limited. Filed Feb. 23, 1950.

CARBOXEL

Applicant claims ownership of Canadian Registration No. N. S. 25,169, dated Jan. 27, 1947.

For Sodium Carboxy Methyl Cellulose Used as a Thickening Agent for Foodstuffs.

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Ser. No. 607,665. Duluth Universal Milling Company, Duluth, Minn. Filed Dec. 14, 1950.

MEDAGLIA GRANDE

The English translation for the Italian expression "Medaglia Grande" constituting the mark is "Grand Medal."

For Durum Wheat Flour.

Claims use since June 29, 1950.

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Ser. No. 610,535. Zellwood Fruit Distributors, Inc., Zellwood, Fla. Filed Feb. 26, 1951. (Sec. 2f.)

Select-O-Sweet

For Fresh Citrus Fruit and Watermelons.

Claims use since 1933.

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Ser. No. 612,127. James H. Knowles, Centralia, Wash. Filed Apr. 2, 1951.




The term "Barrel-Breasted" and the representation of the fowl are disclaimed apart from the mark as shown.

For Dressed Poultry.

Claims use since on or about Mar. 1, 1950.

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Ser. No. 615,824. Fearn Foods Inc., Franklin Park, Ill. Filed June 28, 1951.

Franklin Colony

Exclusive right to the use of the word "Franklin" is disclaimed apart from the mark as shown.

For Soups and Soup Bases and Soup Concentrates, Soup Base Seasoning and Seasoning Compounds in Powder, Paste, and Liquid Forms, Chop Suey Sauces, Cereal Extenders for Meats (Containing No Meat Product), and Food Flavorings in Powder, Paste, and Liquid Forms.

Claims use since Oct. 29, 1947.



Ser. No. 617,620. Charles M. Maginnis, doing business as Charles of New Orleans, Fort Worth, Tex. Filed Aug. 13, 1951.

Charles of NEW ORLEANS

The words "Of New Orleans" are disclaimed apart from the mark as shown.

For Salad Dressings and Remoulade Sauce.

Claims use since May 1, 1948.

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Ser. No. 618,894. Marion Creamery & Poultry Company, Portland, Oreg. Filed Sept. 17, 1951.

Norwest

For Frozen Berries and Frozen Vegetables.

Claims use since Mar. 3, 1950.

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Ser. No. 620,103. The Isaly Dairy Company, Youngstown, Ohio. Filed Oct. 17, 1951. (Sec. 2f as to the word "Isaly's.")

Isaly's De-fatted Milk

No claim is made to the term "De-Fatted Milk" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 322,962, 324,665, and 552,655.

For Pasteurized, Homogenized, Skim Milk With Vitamins A and D Added.

Claims use since Sept. 1, 1951; and since June 30, 1918, as to the word "Isaly's."

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Ser. No. 622,144. Crest Foods Co., Ashton, Ill. Filed Dec. 6, 1951.

CREST Hy-Lo BASE

Applicant disclaims any exclusive rights by this registration in the letters "Hy" and "Lo" and the words "Protein," "Calorie," and "Base," except with respect to the mark as a whole.

For Preparation Including Non-Fat Milk Solids With Additional Stabilizing Contents Suitable for Use as a Base-Type Fortifier and Stabilizer Blend in the Making of Frozen Desserts.

Claims use since Nov. 16, 1951, as shown; and since about June 8, 1951, as to "Crest Hy-Lo Base."

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Ser. No. 626,558. California Marine Curing & Packing Co., Terminal Island, Calif. Filed Mar. 17, 1952.

SAN PIETRO

For Canned Tuna Fish.

Claims use since Feb. 20, 1952.

Ser. No. 626,596. Turkey Bend Farm, Osage Beach, Mo. Filed Mar. 17, 1952.

Chicken Fingers

No claim is made to the word "Chicken," apart from the mark as shown.

For Boned Fresh Chicken Prepared in Stick Form and Frozen.

Claims use since Jan. 15, 1952.

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Ser. No. 631,112. Ed. F. Mangelsdorf & Bro., Inc., St. Louis, Mo. Filed June 12, 1952.

Embro

Applicant claims ownership of Registration No. 546,257.

For Unpopped Popcorn, Popcorn Popping Oil, Popcorn Salt, and Popcorn Seasoning.

Claims use since June 1938.

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Ser. No. 631,430. Meat Industry Suppliers, Inc., Chicago, Ill. Filed June 19, 1952.

GE-SMAK

The word "Smak" is disclaimed apart from the mark as shown.

For Seasoning for Meat Products, Consisting of Monosodium Glutamate, Dextrose, Pure Spices, and Spice Extractives.

Claims use since Dec. 27, 1951.

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Ser. No. 631,716. Atlantic Trading Food Corp., New York, N. Y. Filed June 25, 1952.

"DOZZY"

For Salami.

Claims use since June 1952.

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Ser. No. 631,858. Flotill Products, Inc., Stockton, Calif. Filed June 27, 1952.

DITEX

Applicant claims ownership of Registration No. 380,592.

For Canned Dietetic Food Products—Namely, Hawaiian Pineapple, Prune Plums, Sliced Freestone Elberta Peaches, Bartlett Pears, Blackberries, Cherries, Blueberries, Strawberries, Red Raspberries, Unpeeled Apricots, Sliced Yellow Cling Peaches, Fruits for Salad, Fruit Cocktails, Grapefruit and Orange Sections, Grapefruit Sections, Applesauce, Kadota Figs, Low Calorie Gelatin Dessert; Fruit Juices—Namely, Grapefruit Juice and Pineapple Juice; Fruit Nectars; Corn, Sweet Peas, Beets, Spinach, All Green Asparagus Cuts and Tips, Cut Green Stringless Beans; Noodles, Spaghetti, Soy Pancake Flour, Soy Bean Flour, Breakfast Cereal, Bran Breakfast Food, Oatmeal Cookies, Coconut Cookies, Pecan Cakes, Gluten Toast, Saccharine, Maple Syrup, Grape Jelly, and Pineapple Jelly.

Claims use since Sept. 29, 1939.

Ser. No. 633,844. Fruit Products Corporation, New York, N. Y. Filed Aug. 13, 1952.

I. C. N.

Applicant claims ownership of Registrations Nos. 567,564 and 572,998.

For Frozen Confections on Sticks, and Liquid Concentrates for Making the Same.

Claims use since May 28, 1952.

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Ser. No. 635,054. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Sept. 9, 1952.

CLAIRMONT

For Prepared Mixture, the Principal Ingredients of Which Are Wheat Flour, Sugar, Shortening, and Powdered Milk.

Claims use since May 1951.

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Ser. No. 635,388. Atalanta Trading Corporation, New York, N. Y. Filed Sept. 18, 1952.

Gretchen

For Canned Ham.

Claims use since May 6, 1952.

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Ser. No. 635,390. Atalanta Trading Corporation, New York, N. Y. Filed Sept. 18, 1952.

Hausfrau

The English translation of the mark is "Housewife."

For Canned Ham.

Claims use since May 14, 1952.

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Ser. No. 635,394. Atalanta Trading Corporation, New York, N. Y. Filed Sept. 18, 1952.

Lorelei

For Canned Ham.

Claims use since May 2, 1952.

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Ser. No. 635,395. Atalanta Trading Corporation, New York, N. Y. Filed Sept. 18, 1952.

Mitropa

For Canned Ham.

Claims use since May 2, 1952.

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Ser. No. 635,481. Jos. Martinson & Co., Inc., New York, N. Y. Filed Sept. 19, 1952. (Sec. 2f as to "Martinson's.")

MARTINSON'S JOMAR

Applicant claims ownership of Registrations Nos. 100,897 and 508,164.

For Coffee.

Claims use since Sept. 5, 1952, as to the mark shown; since 1902 as to the name "Martinson's"; and since 1924 as to the name "Jomar."

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Ser. No. 638,029. Worthmor Ice Cream Co., Lake Worth, Fla. Filed Nov. 13, 1952.

CHLORO-CREME

Applicant disclaims the exclusive use of the word "Creme" as used in its trade-mark.

For Ice Cream.

Claims use since Sept. 1, 1952.

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Ser. No. 641,239. Tozai Koeki Kaisha, Ltd., Tokyo, Japan. Filed Dec. 19, 1952.

ACE of DIAMONDS

For Canned Tuna Fish, Crabmeat, Mandarin Oranges, Asparagus, Oysters, and Clams.

Claims use since June 18, 1952; and since June 18, 1952, in commerce between foreign nations and the United States.

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Ser. No. 641,328. Pratt-Low Preserving Company, Santa Clara, Calif. Filed Jan. 26, 1953. (Sec. 2f.)

SANTA CLARA

Applicant claims ownership of Registration No. 541,219.

For Canned Fruits and Vegetables.

Claims use since June 28, 1909.

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Ser. No. 641,369. Cowiche Growers, Inc., Cowiche, Wash. Filed Jan. 27, 1953.

APPLE KIDS

The word "Apple" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 265,135.

For Fresh Apples.

Claims use since Dec. 22, 1952.



Ser. No. 642,038. Los Angeles Smoking & Curing Co., Los Angeles, Calif. Filed Feb. 10, 1953.

Lascco

The representation of the fish is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 315,277.

For Canned, Spiced, Smoked, Salted, and Barbecued Fish; Herring in Sour Cream; Fresh Salmon Roe Caviar; Seafood Cocktail Comprised of Halibut and Shrimp in Seasoned Tomato Puree.

Claims use since Dec. 1, 1922.

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Ser. No. 644,303. Hi-Life Packing Company, Chicago, Ill. Filed Mar. 27, 1953.

Hi★Life

Applicant claims ownership of Registration No. 389,548.

For Canned Dog Food and Canned Cat Food.

Claims use since July 31, 1939.

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Ser. No. 644,387. Gouley N. Burcham, doing business as Inspectors Sea Food Co., Los Angeles, Calif. Filed Mar. 30, 1953.

INSPECTORS

For Canned Clam Chowder and Canned Clams.

Claims use since July 4, 1952.

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Ser. No. 644,464. Standard Brands Incorporated, New York, N. Y. Filed Mar. 30, 1953.

TARGET TOP

For Coffee.

Claims use since Feb. 20, 1953.

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## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 621,547. The Dickey Manufacturing Co., Toledo, Ohio. Filed Nov. 23, 1951.



Applicant claims ownership of Registration No. 181,806.

For Awnings, Banners, Flags, Pennants, Furniture Covers in the Nature of Drop Cloths Used by Painters and Decorators To Protect Furniture, Furniture Pads, Tarpaulins, and Tents.

Claims use since on or about Jan. 3, 1922.

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Ser. No. 622,300. Hedwin Corporation, Baltimore, Md. Filed Dec. 10, 1951.

HEDWIN

Applicant claims ownership of Registration No. 441,668.

For Plastic Table Place Mats and Plastic Mats for Beverage Glasses.

Claims use since Sept. 22, 1949.

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Ser. No. 629,595. Arkow-Lewis Frosties Division, Philadelphia, Pa. Filed May 13, 1952.

FROSTIES

For Adhesive Coated Cut Outs of Spun Glass in the Form of Stars, Animals, Bells, Snow Crystals, and Human Figures for Use on Windows, Doors, Mirrors, and Similar Glass Surfaces.

Claims use since Feb. 15, 1950.

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Ser. No. 634,204. Master Artist Materials, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, Aug. 20, 1952; amended to application, Principal Register, Apr. 16, 1953.

Scotty

For Oil Painting Kits Containing Canvas, Oil Paints, Paint Brushes, and Palette.

Claims use since on or about July 15, 1952.

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Ser. No. 641,716. Crown Cork & Seal Company, Inc., Baltimore, Md. Filed Feb. 4, 1953. (Sec. 2f.)

Satin Finish

No claim is made to the word "Finish" apart from the mark as shown.

For Decorated Metal Container Caps of the Crown, Screw, Lug, and Pressed-On Types.

Claims use since Oct. 10, 1940.

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## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Ser. No. 566,367. Donald C. Stokes, doing business as Stokes Institute of Hair Technology, Newark, N. J. Filed Oct. 2, 1948.

DON'S FORMULA X23

The word "Formula" is hereby disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 443,347.

For Hair Waving Lotions.

Claims use since Aug. 1, 1936.

Ser. No. 622,070. Helene Curtis Industries, Inc., Chicago, Ill. Filed Dec. 4, 1951.

PLUS

For Neutralizer for Permanent Waves.
Claims use since June 1949.

Ser. No. 636,876. Bourjois, Inc., New York, N. Y. Filed Oct. 20, 1952. (Sec. 2f.)

WOODWORTH'S

Applicant claims ownership of Registration No. 75,597.
For Men's Toilet Preparations—Namely, Cologne, After Shave Lotion, and Talcum Powder.
Claims use since June 6, 1952.

Ser. No. 640,437. Bonne Bell Inc., Lakewood, Ohio. Filed Jan. 7, 1953.

Hormosan

For Face Cream.
Claims use since Dec. 6, 1952.

Ser. No. 640,917. Dearborn Supply Company, Chicago, Ill. Filed Jan. 19, 1953.

Saxolite

Applicant claims ownership of Registration No. 87,859.
For Astringent Powder and Astringent Cream.
Claims use since on or about May 15, 1911.

Ser. No. 641,870. J. Strickland & Co., Memphis, Tenn. Filed Feb. 6, 1953.

Aquatone

For Face Cream.
Claims use since Jan. 14, 1953.

## CLASS 52

### DETERGENTS AND SOAPS

Ser. No. 605,228. Frank J. Paull, doing business as Sani-Septic Chemical Company, Cleveland, Ohio. Filed Oct. 20, 1950.

SANI-SEPTIC

No claim is made to the word "Septic" apart from the mark as shown on the drawing.
For Cleaning Compound in Powder Form for Use in Final Rinse Water for Sanitization of Eating and Drinking Utensils.
Claims use since January 1947.

Ser. No. 616,591. Diadust Corporation, Manhasset, N. Y. Filed July 17, 1951.

Dia-Glo

The word "Glo" is disclaimed apart from the mark as shown.
For Detergents for Cleaning Objects Made of Silver, Aluminum, Stainless Steel, or Porcelain, and Painted or Enameled Surfaces.
Claims use since June 15, 1951.

Ser. No. 643,402. The Betco Corporation, Toledo, Ohio. Filed Mar. 10, 1953.

Betco

For Detergents.
Claims use since on or about May 1, 1950.

# SERVICE MARKS

## CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 612,713. Vance, Sanders & Company, Boston, Mass. Filed Apr. 16, 1951.

CIP

The lining in the drawing represents lining in the mark and does not designate color.
For Providing for Regular Purchases of Securities by Investors by Means of a Deposit System Installed in Banking Institutions.
Claims use since Jan. 5, 1951.

Ser. No. 626,752. Selling Research, Inc., New York, N. Y. Filed Mar. 20, 1952.

SELL-O-RATOR

For Marketing Research and Store Auditing Service—Namely, Measuring the Over-the-Counter Movement of Manufacturers' or Competitors' Products in Retail Stores.
Claims use since June 11, 1951.

## CLASS 102

### INSURANCE AND FINANCIAL

Ser. No. 615,670. Lansing B. Warner, Incorporated, Chicago, Ill. Filed June 25, 1951. (Sec. 2f.)

CANNERS EXCHANGE

For Underwriting of Fire and Casualty Insurance.
Claims use since August 1907.



Ser. No. 634,477. D. K. MacDonald & Company, Inc., Seattle, Wash. Filed Aug. 26, 1952.




The wording "World Connections" is disclaimed separate and apart from the service mark shown.
For General Insurance Brokerage Services.
Claims use since Dec. 31, 1942.

Ser. No. 635,576. Raymond D. Applegate, doing business as Ray D. Applegate Agency, Rockville Centre, N. Y. Filed Sept. 22, 1952.



For General Insurance Brokerage.
Claims use since on or about Aug. 31, 1949.

Ser. No. 639,087. Tourex Company of America, Inc., New York, N. Y. Filed Dec. 5, 1952.

Tourex

For Providing and Arranging Credit Facilities to Customers of Merchandising Establishments, Hotels, Restaurants, Entertaining Establishments, Theaters, Public and Private Carriers, and Travel Agencies.
Claims use since October 1950.

## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 624,089. P. Kretzer & Son, Inc., Flushing, N. Y. Filed Jan. 25, 1952.




The generically descriptive words "Industrial Builders," "Incorporated," and "& Son" are hereby disclaimed, along with the surname "P. Kretzer" and the representation of the building.
For Constructing and Repairing Industrial and Residential Buildings.
Claims use since Oct. 1, 1951.



Ser. No. 640,108. Dowzer Electric Machinery Works, Inc., Mount Vernon, Ill. Filed Dec. 29, 1952. (Sec. 2f.)




The drawing is lined for the colors yellow and red.
For Rebuilding, Rewinding, and Repairing of Electric Motors and Transformers for Others.
Claims use since Jan. 1, 1946.

## CLASS 105

### TRANSPORTATION AND STORAGE

Ser. No. 594,996. Walter C. Rushmore, doing business as Travel Kader and as American National Travelers Service, Denver, Colo. Filed Mar. 31, 1950.

Travel Kader

The word "Travel" is disclaimed apart from the mark as shown.
For Travel Services—Namely, Arranging Tours for Travelers, Making Train, Ship, Bus, and Plane Reservations for Travelers, and Conducting Tours for Tourists.
Claims use since on or about June 1, 1949.

## CLASS 106

### MATERIAL TREATMENT

Ser. No. 588,299. A. Hollander & Son, Inc., Newark, N. J. Filed Nov. 25, 1949.




No rights to registration of the words "This Is a Hollander Fur" are claimed apart from the mark as shown.
For Dressing, Dyeing, Blending of Furs.
Claims use since Sept. 8, 1949.

Ser. No. 612,775. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Apr. 17, 1951.

FORT SHED-AQ

Applicant claims ownership of Registrations Nos. 345,353, 505,467, and 507,304.
For Finishing of Textile Fabrics in the Piece To Impart Water Repellency Thereto.
Claims use since Dec. 26, 1950.

Ser. No. 632,989. The Kenyon Piece Dyeworks, Inc., Kenyon, R. I. Filed July 24, 1952.

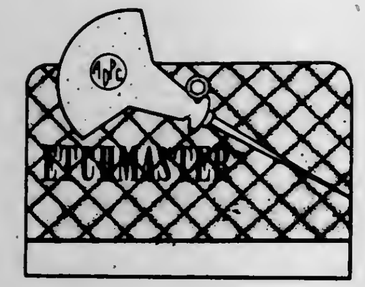
DUO-CHINE

The word "Chine" is disclaimed apart from the mark as shown on the drawing.

For Dyeing and Printing Piece Goods.

Claims use since May 20, 1952.

Ser. No. 636,192. Associated Dye & Print Co. Inc., Paterson, N. J. Filed Oct. 6, 1952.




The representation of the etching needle is disclaimed apart from the mark as shown.

For Chemically Treating Plain Goods of Others To Create a Quilted Effect on the Goods in Color.

Claims use since June 1952.

Ser. No. 637,698. R. W. Bates Piece Dye Works, Inc., Garnerville, N. Y. Filed Nov. 6, 1952.

Royal-Set

The descriptive word "Set" is disclaimed apart from the mark as shown on the drawing.

For Treating Rayon and Acetate Suiting Fabrics of Others To Impart a Crease Resistant Finish Thereto.

Claims use since Sept. 2, 1952.

Ser. No. 640,492. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Filed Jan. 8, 1953.

BRADFORD
BRADACRILA

No claim is made to the exclusive use of the word "Bradford" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 188,786, 191,136, and others.

For Services Rendered Manufacturers of All Kinds of Fabrics Containing "Acrilan" in Admixture With Other Fibers Both Natural and Synthetic—Namely, Bleaching, Dyeing, and Heat Setting.

Claims use since Nov. 21, 1952.

Ser. No. 640,996. American Waterproofing Corp., New Haven, Mo. Filed Jan. 21, 1953.

AMERFLAME

Applicant claims ownership of Registrations Nos. 512,923 and 248,523.

For Fireproofing Canvas and Fabrics.

Claims use since Oct. 12, 1952.

## CLASS 107

### EDUCATION AND ENTERTAINMENT

Ser. No. 625,333. Sarah Ophelia Cannon, Nashville, Tenn. Filed Feb. 21, 1952.

MINNIE
PEARL

For Entertainment Service—Namely, Comedy, Singing, and Dancing.

Claims use since 1937.

Ser. No. 627,192. Kated Company, New York, N. Y. Filed Mar. 28, 1952.

THE·CRACKER·BARREL

For Entertainment Service in the Nature of a Musical Variety Television Broadcast Program.

Claims use since on or about Apr. 22, 1951.

# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1905

444,782. Doors of the Overhead Type, Either Manually or Automatically Operated. Atlas Overhead Door Company, Quakertown, Pa.
Filed Feb. 21, 1947, Serial No. 517,884. Published Nov. 2, 1948. Class 12.

444,783. Whiskey. Bohemian Distributing Company, doing business as International Products Company, Los Angeles, Calif.
Filed July 3, 1947, Serial No. 525,775. Published Dec. 14, 1948. Class 49.

## ACT OF 1946, PRINCIPAL REGISTER

577,157. Retail Egg Cartons Adapted To Contain Not More Than One Dozen Eggs. Robert Gair Company, Inc., New York, N. Y.
Filed Dec. 13, 1947, Serial No. 544,261. Published Apr. 21, 1953. Class 2.

577,158. Alcoholic Beverage — Namely, an Alcoholic Liqueurs. Ladner Brothers, Incorporated, Chicago, Ill.
Filed Mar. 12, 1948, Serial No. 551,803. Published Sept. 23, 1952. Class 49.

577,159. Cookies, Crackers, Cake. Mother's Cake & Cookie Co., Oakland, Calif.
Filed Apr. 22, 1948, Serial No. 555,287. Published June 24, 1952. Class 46.

577,160. Plastic Utility Boxes, Without Partitions or With Partitions Forming Compartments, and Provided With Hinged Covers. The Vichek Tool Company, Cleveland, Ohio.
Filed May 6, 1948, Serial No. 556,383. Published Apr. 21, 1953. Class 2.

577,161. Open-Type Flooring Made of Metal Such as Steel Grating and Treads. Gustav J. Bostrom, doing business as Supergrate Open Steel Flooring Co., Los Angeles, Calif.
Filed May 25, 1948, Serial No. 557,727. Published Mar. 17, 1953. Class 12.

577,162. Hydraulic Washing and Sanitizing Machines for Dishes, Glasses, Tableware, and the Like. Inventrust, Inc., Providence, R. I.
Filed June 19, 1948, Serial No. 559,710. Published Mar. 31, 1953. Class 23.

577,163. Home Permanent Waving Kit Comprising Curling Lotion, Pin Curl Roller, Curling Pins, and Neutralizer. Frosty Creme Products, Inc., doing business as Frosty Creme Co., St. Louis, Mo.
Filed Aug. 4, 1948, Serial No. 562,773. Published July 11, 1950. Class 44.

577,164. Ointment for Use in Connection With Neuralgia, Muscular Soreness, Dry Skin, and the Like. Gus H. French, doing business as French Laboratories, Minneapolis, Minn.
Filed Sept. 23, 1948, Serial No. 565,699. Published Apr. 14, 1953. Class 18.

577,165. Complete Pole Line Equipment—Namely, Insulators; Etc. Josiyn Mfg. and Supply Co., Chicago, Ill.
Filed Oct. 16, 1948, Serial No. 567,981. Published Apr. 28, 1953. Class 21.

577,166. Fluid Milk and Cream and Condensed Milk. Western Maryland Dairy, Inc., and doing business sometimes under the name Western Maryland Dairy, Baltimore, Md.
Filed Oct. 26, 1948, Serial No. 567,669. Published Sept. 25, 1951. Class 46.

577,167. First Aid Kits, Etc. E. D. Bullard Company, San Francisco, Calif.
Filed Nov. 1, 1948, Serial No. 567,943. Published Jan. 2, 1951. Class 44.

577,168. Flexible Metallic Racks Designed To Be Mounted on a Wall or Shelf for Storing Covers and Lids of Kitchen Utensils. Elmer Greensfelder, doing business under the name and style Elgin Novelties (not incorporated), Provincetown, Mass.
Filed Nov. 29, 1948, Serial No. 569,558. Published Apr. 14, 1953. Class 13.

577,169. Receptacles—Namely, Plastic Dishes, Particularly for Use in Domestic Refrigerator Storage. Perry Plastics, Inc., Erie, Pa.
Filed May 25, 1949, Serial No. 579,514. Published Apr. 21, 1953. Class 2.

577,170. Frozen Fruits; Frozen Fruit Juices—Namely, Orange Juice, Grapefruit Juice, and Orange and Grapefruit Juice; Frozen Vegetables; Frozen Fish Fillets; and Frozen Poultry. Snow Crop Marketers, Inc., New York, N. Y., assignor to Clinton Foods, Inc., New York, N. Y., a corporation of Delaware.
Filed June 29, 1949, Serial No. 581,299. Published Apr. 1, 1952. Class 46.

577,171. Whiskey. Schenley Industries, Inc., New York, N. Y.
Filed July 18, 1949, Serial No. 582,145. Published Apr. 7, 1953. Class 49.

577,172. Non-Alcoholic Maltless Soft Drinks. Porto Rico Pale Dry Co., Philadelphia, Pa.
Filed Sept. 8, 1949, Serial No. 584,594. Published Apr. 21, 1953. Class 45.

577,173. Game Apparatus of a Mechanical Nature for Designating the Correctness or Falsity of Answers to Prearranged Sets of Questions and Answers. The Hopkins Syndicate, Inc., Mellott, Ind.
Filed Dec. 12, 1949, Serial No. 589,213. Published Apr. 28, 1953. Class 22.

577,174. Fountain Syrups and Concentrates Used in the Preparation of Non-Alcoholic Maltless Soft Drinks. Howard D. Johnson Company, Quincy, Mass.
Filed Dec. 14, 1949, Serial No. 589,318. Published Apr. 14, 1953. Class 45.

577,175. Liquid Cleaner (for Use on Any Surface or Material Not Injured by Clean Water), Etc. Lien Chemical Company, Franklin Park, Ill.
Filed Dec. 24, 1949, Serial No. 589,904. Published Apr. 28, 1953. Class 52.

577,176. Concrete Prefabricated Wall Panels and Posts Used as Building Units. Reginald V. Cayce, San Francisco, Calif.
Filed Feb. 3, 1950, Serial No. 591,912. Published Mar. 18, 1952. Class 12.

577,177. Safety Helmets and Dust Protective Hoods and Masks. Willson Products, Inc., Reading, Pa.
Filed Mar. 2, 1950, Serial No. 593,314. Published Mar. 24, 1953. Class 39.

577,178. Enclosed Apparatus for Charging and Discharging Electrical Storage Batteries, Etc. Curtis Development & Mfg. Co., Milwaukee, Wis.
Filed Mar. 4, 1950, Serial No. 593,400. Published Dec. 9, 1952. Class 21.

577,179. Dairy Products Consisting of Fluid Milk, Butter, and Fresh Eggs, Etc. Fred Wolferman, Incorporated, Kansas City, Mo.
Filed Mar. 6, 1950, Serial No. 593,511. Published Apr. 28, 1953. Class 46.

577,180. Attachment System for Siding Comprising Metallic Corner Pieces, Metallic Channels, and Nails. United States Gypsum Company, Chicago, Ill.
Filed Apr. 15, 1950, Serial No. 595,801. Published Apr. 7, 1953. Class 12.

577,181. Potable Distilled Alcoholic Beverages—Namely, Whiskey. Sunset Incorporated, Chicago, Ill.
Filed May 3, 1950, Serial No. 596,815. Published Apr. 28, 1953. Class 49.

577,182. Asphaltic Compounds and Emulsions for Use in the Surfacing and the Dressing of Surfaces of Roads, Pavements, and the Like. James Fraser Bremner, Sydney, New South Wales, Australia.
Priority under Sec. 44(d). Australian Registration No. 100,074, filed Sept. 13, 1949.
Filed Mar. 9, 1950, Serial No. 593,646. Published Mar. 31, 1953. Class 12.

577,183. Expanded and Vesiculated Volcanic Glass—Namely, Perlite, Used as a Drilling Fluid Additive. Great Lakes Carbon Corporation, New York, N. Y.
Filed May 20, 1950, Serial No. 597,827. Published Mar. 24, 1953. Class 12.

577,184. Brandy. J. Wertheimer & Co., Zurich, Switzerland.
Filed May 27, 1950, Serial No. 598,286. Published Apr. 28, 1953. Class 49.

577,185. Bottles Made From Resinous Plastic Materials. Plax Corporation, West Hartford, Conn.
Filed Aug. 30, 1950, Serial No. 602,969. Published Apr. 21, 1953. Class 2.

577,186. Athletic Shoes for Men, Women, and Children. The Athletic Shoe Company, Chicago, Ill., assignor to A. R. Hyde & Sons Company, Cambridge, Mass., a corporation of Massachusetts.
Filed Sept. 6, 1950, Serial No. 603,177. Published Apr. 21, 1953. Class 39.

577,187. Paper Bags. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Oct. 11, 1950, Serial No. 604,716. Published Apr. 21, 1953. Class 2.

577,188. Alcoholic Beverages—Namely, Whiskey. The Calvert Distilling Co., New York, N. Y.
Filed Oct. 25, 1950, Serial No. 605,405. Published Mar. 31, 1953. Class 49.

577,189. Business Shirts for Men and Young Men. TruVal Manufacturers, Inc., New York, N. Y.
Filed Dec. 1, 1950, Serial No. 607,203. Published Mar. 31, 1953. Class 39.

577,190. Internal Combustion Engines, Air Compressors, and Pneumatic Tools, Etc. Schramm Inc., West Chester, Pa.
Filed Dec. 14, 1950, Serial No. 607,687. Published Apr. 28, 1953. Class 23.

577,191. Alcoholic Beverages—Namely, Whiskey. Gallagher & Burton, Inc., Bristol, Pa.
Filed Dec. 16, 1950, Serial No. 607,751. Published Apr. 14, 1953. Class 49.

577,192. Construction Elements—Namely, Plates, Blocks, Discs, and Tubes, Composed Primarily of Carbon and Graphite and Intended for the Construction or Lining of Apparatus and Equipment Used in the Chemical Industry. Chemische Fabrik Griesheim, Frankfurt am Main-Griesheim, Germany.
Filed Nov. 9, 1950, Serial No. 608,971. Published Mar. 17, 1953. Class 12.

577,193. Construction Elements—Namely, Plates, Blocks, Discs, and Tubes, Composed Primarily of Carbon and Graphite and Intended for the Construction or Lining of Apparatus and Equipment Used in the Chemical Industry. Chemische Fabrik Griesheim, Frankfurt am Main-Griesheim, Germany.
Filed Nov. 9, 1950, Serial No. 608,972. Published Mar. 17, 1953. Class 12.

577,194. Boys' Clothing—Namely, Outer Shirts, Pajamas, Shoes, Trousers, Blouses, Jackets, Coats, Belts, Caps, and Hats. Nunnally & McCrea Company, Inc., Atlanta, Ga.
Filed Feb. 8, 1951, Serial No. 609,809. Published Apr. 14, 1953. Class 39.

577,195. Oral Deodorant Tablet. The Pharma-Craft Corporation, New York, N. Y.
Filed Feb. 17, 1951, Serial No. 610,227. Published Apr. 14, 1953. Class 51.

577,196. Housewares Made of Metal—Namely, Match Boxes for Kitchen Use, Salt and Pepper Shakers, Etc. Harper J. Ransburg Co., Inc., Indianapolis, Ind.
Filed Feb. 23, 1951, Serial No. 610,462. Published Apr. 21, 1953. Class 2.

577,197. Concrete Building Brick, Blocks, and Wall Tile. W. E. Dunn Manufacturing Company, Holland, Mich.
Filed Mar. 8, 1951, Serial No. 611,022. Published Apr. 21, 1953. Class 12.

577,198. Electric Motors. Banning Electrical Products Corporation, Saginaw, Mich.
Filed Mar. 10, 1951, Serial No. 611,124. Published Apr. 28, 1953. Class 21.

577,199. Men's and Boys' Shoes Made of Leather, Fabric, Rubber, and Combinations of Said Materials. Modern Shoe Company, St. Louis, Mo.
Filed Mar. 12, 1951, Serial No. 611,184. Published Apr. 21, 1953. Class 39.

577,200. Concrete Brick. W. E. Dunn Manufacturing Company, Holland, Mich.
Filed Mar. 8, 1951, Serial No. 612,054. Published Apr. 7, 1953. Class 12.

577,201. Fresh Limes. Robert Lauria Avocado Company, trading as Fresh Limes Co., Los Angeles, Calif.
Filed Apr. 13, 1951, Serial No. 612,618. Published Apr. 28, 1953. Class 46.

577,202. Brass, Bronze, and Nickel Silver Mill Products, Such as Sheet and Strip Stock Either Flat or Coiled, Tubing, Rod Wire, and Special Shaped Drawn Products. Scovill Manufacturing Company, Waterbury, Conn.
Filed Apr. 16, 1951, Serial No. 612,708. Published Apr. 21, 1953. Class 14.

577,203. Trays (Similar to Trays Used in Cafeterias) and Tote Boxes Made of a Thermosetting Plastic Incorporating a Fibrous Reinforcement Such as Fiber Glass. G. B. Lewis Company, Watertown, Wis.
Filed Apr. 24, 1951, Serial No. 613,077. Published Apr. 7, 1953. Class 2.

577,204. Self Attaching Costume Jewelry Ornaments—Namely, Pins, Earrings, Brooches, Necklaces, Ankle Bracelets, Finger Rings, Chatelaines. Julons, Inc., New York, N. Y.
Filed May 2, 1951, Serial No. 613,407. Published Apr. 14, 1953. Class 28.

577,205. Beer in Bottles, Cans, Kegs, and Other Containers in Which Beer Is Sold. Bavarian Brewing Company Inc., Covington, Ky.
Filed May 5, 1951, Serial No. 613,552. Published Apr. 21, 1953. Class 48.

577,206. Silverplated Flat Tableware. Home Decorators, Inc., Newark, N. Y.
Filed May 18, 1951, Serial No. 614,051. Published Apr. 14, 1953. Class 28.



577,207. CONSOLIDATED CERTIFICATE. Union Bay State Chemical Co., Inc., Cambridge, Mass.
Natural and Synthetic Rubber Latex, and Dispersions and Emulsions of Natural Resins, and Gums. Filed Nov. 18, 1952, Serial No. 637,808. Published Apr. 7, 1953. Class 1.
Natural and Synthetic Rubber Latex Adhesives, Natural and Synthetic Resin Adhesives, Adhesive Cement, and Solvents Used in the Manufacture of Adhesives. Filed May 22, 1951, Serial No. 614,226. Published Sept. 2, 1952. Class 5.
Synthetic Resin Dispersions, Resin Emulsions, Extenders and Modifiers Therefor, Dispersions and Emulsions of Natural Waxes, Dyes, Shoe and Leather Treating Compositions, and Solvents of General Application. Filed May 22, 1951, Serial No. 614,227. Published Mar. 17, 1953. Class 6.
Paints, Stains, Protective Coatings for Corrosion Proofing and Resistance to Chemicals; Primers and Thinners, and Solvents Used in the Manufacture of Coating Compositions. Filed May 22, 1951, Serial No. 614,228. Published Feb. 10, 1953. Class 16.

577,208. Bracelets, Necklaces, Earrings, Finger Rings, Brooches, Money Clips Made Either Wholly or Partly of or Plated With Precious Metal. Helena Rubinstein, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,720. Published Apr. 14, 1953. Class 28.

577,209. Magnetic Chucks. Hanchett Magna-Lock Corporation, Big Rapids, Mich.
Filed June 8, 1951, Serial No. 614,939. Published Apr. 28, 1953. Class 21.

577,210. Beer. John Labatt Limited, London, Ontario, Canada.
Filed June 8, 1951, Serial No. 614,949. Published Apr. 7, 1953. Class 48.

577,211. Cologne, Dusting Powder, Perfumed Sachet, and Perfume. Lionel O. Rothchild, doing business as Lenel Company, Dallas, Tex.
Filed June 14, 1951, Serial No. 615,193. Published Apr. 14, 1953. Class 51.

577,212. Woman's Cloth Working Cap With a Cotton Netting, Forming a Snood, for Use in Bakeries, Shops, and Other Industrial Plants. Rada F. Ventrallo, doing business under the assumed name Ray-Ve Company, Detroit, Mich.
Filed June 14, 1951, Serial No. 615,197. Published Apr. 14, 1953. Class 39.

577,213. Dollies, for Mechanics To Allow Movement of the Mechanic Under a Vehicle in a Recumbent Position, and Wheel Balancing Weights. Lempco Products, Inc., Bedford, Ohio.
Filed June 15, 1951, Serial No. 615,236. Published Apr. 28, 1953. Class 19.

577,214. Glass Cutters and Parts Thereof; Wood Scrapers; Putty Knives; Wall Scrapers; Linoleum Knives; and Razor Blade Scrapers. Black Panther Tool Company, Philadelphia, Pa.
Filed June 26, 1951, Serial No. 615,681. Published Mar. 17, 1953. Class 23.

577,215. Reinforced Plastic Pipe, Tubing, Pipe Fittings, and Couplings. H. D. Boggs Company, Ltd., Omaha, Nebr.
Filed June 28, 1951, Serial No. 615,811. Published Apr. 28, 1953. Class 13.

577,216. Hand Supported Electric Hammers and Parts Thereof With Operating Attachments for Use Therewith. Kango Electric Hammers Limited, London, England.
Filed July 5, 1951, Serial No. 616,104. Published Apr. 28, 1953. Class 21.

577,217. Movable Metal Partitions, and Structural Parts of Such Partitions, Sold as a Complete Unit, Clips and Pilaster Covers Therefor, Doors, Frames, Sash, Railings, Gate Doors, and Transoms. Virginia Metal Products Corporation, Orange, Va.
Filed July 13, 1951, Serial No. 616,462. Published Apr. 7, 1953. Class 12.

577,218. Pre-Cut Collar Linings for Shirts Used by Men, Women, Boys, and Girls. Dubin-Haskell Lining Corporation, New York, N. Y.
Filed July 16, 1951, Serial No. 616,548. Published Apr. 21, 1953. Class 39.

577,219. Electric Corn Poppers for Use Both Domestically and Commercially. U. S. Manufacturing Corporation, Decatur, Ill.
Filed July 20, 1951, Serial No. 616,740. Published Apr. 7, 1953. Class 21.

577,220. Powdered and Liquid Sealing Compound for Boiler Repairs, and Piper Joint Cement. J. A. Sexauer Mfg. Co., Inc., New York, N. Y.
Filed July 26, 1951, Serial No. 616,970. Published Mar. 17, 1953. Class 12.

577,221. Snatch Eliminators To Gradually Absorb the Shock Incident To Dropping Loads From an Aircraft, Etc. Trianco Limited, East Molesey, England.
Filed Aug. 1, 1951, Serial No. 617,219. Published Apr. 14, 1953. Class 19.

577,222. Paperboard Cartons. The Gardner Board and Carton Co., Middletown, Ohio.
Filed Aug. 3, 1951, Serial No. 617,286. Published Apr. 14, 1953. Class 2.

577,223. Ladies' and Misses' Negligees. Maxan Negligees, Inc., New York, N. Y.
Filed Aug. 6, 1951, Serial No. 617,374. Published Apr. 21, 1953. Class 39.

577,224. Fishing Tackle—Namely, a Container for Holding Live Bait While Casting or Spinning. Alexander MacKenzie, Jr., doing business as MacKenzie Tool & Engineering Co., Springfield, Mass.
Filed Aug. 17, 1951, Serial No. 617,802. Published Apr. 28, 1953. Class 22.

577,225. Automobiles and Chassis. Humber Limited, Coventry and Stoke, Coventry, England.
Filed Aug. 24, 1951, Serial No. 618,039. Published Apr. 28, 1953. Class 19.

577,226. Glycerine Used as an Ingredient in the Manufacture of Cosmetics and Dentifrices. Swift & Company, Chicago, Ill.
Filed Sept. 4, 1951, Serial No. 618,376. Published Mar. 24, 1953. Class 51.

577,227. Synthetic Detergent in Powder Form. Virginia-Carolina Chemical Corporation, Richmond, Va.
Filed Sept. 5, 1951, Serial No. 618,415. Published Aug. 5, 1952. Class 52.

577,228. Golf Practice Machine With Cord and Ball Assembly. A. E. Peterson Manufacturing Co., Glendale, Calif.
Filed Sept. 12, 1951, Serial No. 618,712. Published Apr. 28, 1953. Class 22.

577,229. Specially Coated Metal Electrode Used as a Tool for Cutting and Removing Metals. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Sept. 19, 1951, Serial No. 618,960. Published Apr. 7, 1953. Class 21.

577,230. Electrical Heating Devices Used for the Bending of Plastic Tile. J. B. Tile Company, Salt Lake City, Utah, assignor to Glen E. Miller, Bountiful, Utah.
Filed Sept. 22, 1951, Serial No. 619,138. Published Apr. 28, 1953. Class 21.

577,231. Women's Shoes Made of Leather. M. Beckerman & Sons, Inc., New York, N. Y.
Filed Sept. 25, 1951, Serial No. 619,184. Published Apr. 21, 1953. Class 39.

577,232. Supporting Frames for Attachment to Office Machines To Hold Rolls of Carbon Paper for Interleaving Between Sheets of Continuous Form Stationery. Standard Manifold Company, Chicago, Ill.
Filed Sept. 28, 1951, Serial No. 619,370. Published Mar. 31, 1953. Class 23.

577,233. Asbestos Woven Tape for Use in Preparing Air Transmission Lines To Prevent Noise Vibrations. Grant Wilson, Incorporated, Chicago, Ill.
Filed Oct. 3, 1951, Serial No. 619,557. Published Oct. 14, 1952. Class 12.

577,234. Vermouth. Juillard Fancy Foods Company, San Francisco, Calif.
Filed Oct. 4, 1951, Serial No. 619,577. Published Apr. 28, 1953. Class 47.

577,235. Electrical Insulating Material—Namely, Electrical Varnishes, Dielectric Sealing Compositions, Molding Resins for Electrical Insulators, Resins for Coating Metal Conductors. Dow Corning Corporation, Midland, Mich.
Filed Oct. 10, 1951, Serial No. 619,811. Published Mar. 24, 1953. Class 21.

577,236. Electric Equipment and Accessories for Effecting Remote Control, Etc. Automatic Telephone and Electric Company Limited, Liverpool, England.
Filed Oct. 17, 1951, Serial No. 620,082. Published Apr. 7, 1953. Class 21.

577,237. Supersonic Electrical Vibration Apparatus for the Prevention of the Formation of, and for the Removal of Firmly Adhering Coatings in Liquid Containers Especially of Scale in Water Containers. H. R. Hilfiker & Co., Zurich, Switzerland.
Filed Oct. 17, 1951, Serial No. 620,102. Published Apr. 28, 1953. Class 21.

577,238. Electric Circuit Breakers. Heinemann Electric Company, Trenton, N. J.
Filed Oct. 18, 1951, Serial No. 620,158. Published Apr. 28, 1953. Class 21.

577,239. Liquified Petroleum Gas. Warren Petroleum Corporation, Tulsa, Okla.
Filed Oct. 19, 1951, Serial No. 620,242. Published Apr. 14, 1953. Class 6.

577,240. Hats and Caps for Men and Boys. John B. Stetson Company, Philadelphia, Pa.
Filed Oct. 31, 1951, Serial No. 620,749. Published Apr. 21, 1953. Class 39.

577,241. Food—Namely, Doughnuts. The Churngold Corporation, doing business as Blue Ribbon Foods Co., Cincinnati, Ohio.
Filed Oct. 31, 1951, Serial No. 620,766. Published Apr. 28, 1953. Class 46.

577,242. Beer. The William Gerst Brewing Co., Inc., Nashville, Tenn.
Filed Nov. 8, 1951, Serial No. 621,009. Published Apr. 28, 1953. Class 48.

577,243. Women's Dresses. Dan Novick & Co., Not Inc., Chicago, Ill..
Filed Nov. 15, 1951, Serial No. 621,284. Published Apr. 21, 1953. Class 39.

577,244. Women's and Misses' Textile Aprons. L. Nachman & Son, Inc., Philadelphia, Pa.
Filed Nov. 17, 1951, Serial No. 621,371. Published Apr. 21, 1953. Class 39.

577,245. Friction Bearings and Parts Thereof, Bushings To Be Used in Machinery, Etc. Federal-Mogul Corporation, Detroit, Mich.
Filed Dec. 3, 1951, Serial No. 622,017. Published Mar. 24, 1953. Class 23.

577,246. Macaroni. The Pfaffman Co., Cleveland, Ohio.
Filed Nov. 13, 1951, Serial No. 622,187. Published Apr. 28, 1953. Class 46.

577,247. Hormone Preparation for Use by Injection for the Treatment of Metabolic Disturbances. The Upjohn Company, Kalamazoo, Mich.
Filed Dec. 8, 1951, Serial No. 622,281. Published Apr. 21, 1953. Class 18.

577,248. Plastic Film Aprons, Shampoo Capes, Cosmetic Capes, Clothespin Aprons, Protective Covers for Sleeve Cuffs, Shower Caps, Raincoats, Rain Scarfs, Rainhoods, Bibs, and Baby Pants. Plastic Film Products Corporation, Akron, Ohio.
Filed Dec. 13, 1951, Serial No. 622,457. Published Apr. 21, 1953. Class 39.

577,249. Sleeping Bags for Outdoor Camping Use and Pack Boards, the Latter Adapted To Be Carried Upon the Back of an Individual. Far North Sportsmens Supply Inc., Portland, Oreg.
Filed Dec. 17, 1951, Serial No. 622,587. Published Apr. 28, 1953. Class 22.

577,250. Disinfectant, Household Deodorant, Sterilizing Solution; Laundry Bleach and Starch; Etc. N. V. Chemische Industrie "Rids," Haarlem, Netherlands.
Filed Dec. 17, 1951, Serial No. 622,613. Published Apr. 28, 1953. Class 6.

577,251. Alcoholic Cordials. Martini & Rossi Corporation, New York, N. Y.
Filed Dec. 21, 1951, Serial No. 622,753. Published Apr. 28, 1953. Class 49.

577,252. Sweet Pickled Gherkins; Mixed Sweet- and Sour-Pickles; and Sweet Relish; and Canned Vegetables. Leon Rosenberg, doing business under the trade name of Mount Rose Canning Co., King George, Va.
Filed Dec. 21, 1951, Serial No. 622,750. Published Apr. 28, 1953. Class 46.

577,253. Perfumes, Toilet Waters, Rouge, Face Powder, Lipstick, Etc. Christian Dior Perfumes Corp., New York, N. Y.
Filed Dec. 22, 1951, Serial No. 622,771. Published Apr. 21, 1953. Class 51.

577,254. Fungicides for Control of Various Plant Diseases. F. W. Berk & Company, Inc., Wood-Ridge, N. J.
Filed Dec. 28, 1951, Serial No. 622,918. Published Apr. 28, 1953. Class 6.

577,255. Electric Car Couplers, Trolley Pole Catchers and Retrievers, Etc. The Ohio Brass Company, Mansfield, Ohio.
Filed Dec. 29, 1951, Serial No. 623,008. Published Apr. 28, 1953. Class 21.

577,256. Kitchen Articles—Namely, Paring Knives, Potato Peelers, Etc. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,105. Published Mar. 24, 1953. Class 23.

577,257. Dessert Mixes. Camac, Inc., Minneapolis, Minn.
Filed Jan. 4, 1952, Serial No. 623,180. Published Apr. 28, 1953. Class 46.

577,258. Children's Toy Paint Sets Comprising Generally a Paint Carrying Pallet Supported on a Water Carrying Vessel. Detro Manufacturing & Sales Co., Inc., Culver City, Calif.
Filed Jan. 7, 1952, Serial No. 623,272. Published Apr. 28, 1953. Class 22.

577,259. Specially Constructed Spectacles and Sunglasses for Forward and Rearward Vision. Lillian S. La Bard, New York, N. Y.
Filed Jan. 10, 1952, Serial No. 623,420. Published Jan. 27, 1953. Class 26.

577,260. Pressure Regulating Valves for Controlling Pressure in Fluid Control Systems. Minneapolis-Honeywell Regulator Company, Minneapolis, Minn.
Filed Jan. 14, 1952, Serial No. 623,556. Published Apr. 14, 1953. Class 13.

577,261. Clothing for Men, Women, Boys, and Girls as Follows: Bathing Suits, Sweaters, Outer Shirts, Pajamas, Outer Shorts, Slacks, Beach Capes, and Scarfs for Personal Wear; and Bathing Trunks for Men and Boys. The B. V. D. Company, Inc., New York, N. Y.
Filed Jan. 15, 1952, Serial No. 623,581. Published Mar. 31, 1953. Class 39.



577,262. Dill Pickles, Kosher Style Pickles, Sliced Butter Pickles, Pickle Relish, and Hot Banana Peppers. Bohemian Girl Foods, Ontario, Calif.
Filed Jan. 15, 1952, Serial No. 623,589. Published Apr. 28, 1953. Class 46.

577,263. Sanitary Napkins. Delicat, Inc., New York, N. Y., assignor to Compressed Products Corporation, New York, N. Y., a corporation of Nevada.
Filed Jan. 15, 1952, Serial No. 623,594. Published Apr. 14, 1953. Class 44.

577,264. Shoes for Men. Plymouth Shoe Company, Middleboro, Mass.
Filed Jan. 16, 1952, Serial No. 623,676. Published Apr. 21, 1953. Class 39.

577,265. Metal Moulding Trim for Automobiles. Production Mouldings Corporation, Chicago, Ill.
Filed Jan. 22, 1952, Serial No. 623,907. Published Apr. 28, 1953. Class 19.

577,266. Roof Covering Material in the Nature of a Fabric Impregnated With Glass and Presaturated With a Water-Proofing Asphalt. Panther Oil & Grease Mfg. Co., Fort Worth, Tex.
Filed Jan. 23, 1952, Serial No. 623,983. Published Apr. 14, 1953. Class 12.

577,267. Architectural Wall Panels—Namely, Hardboard Panels Having a Plastic Finish. Armstrong Cork Company, Lancaster, Pa.
Filed Jan. 26, 1952, Serial No. 624,118. Published Apr. 21, 1953. Class 12.

577,268. Hot Rolled and Cold Finished Alloy Steel Bars. The Plomb Tool Company, Los Angeles, Calif.
Filed Jan. 28, 1952, Serial No. 624,205. Published Apr. 21, 1953. Class 14.

577,269. Electrically Operated Device for Automatically Operating Traverse Draperies. George Mitchell, doing business as Mitchell Products Company, Detroit, Mich.
Filed Jan. 30, 1952, Serial No. 624,286. Published Apr. 28, 1953. Class 21.

577,270. Machines for Inserting and Lacing Fasteners in Conveyor Belting. Mastabar Belt Fastener Co. Limited, Marfleet, Hull, England.
Filed Jan. 31, 1952, Serial No. 624,346. Published Apr. 14, 1953. Class 23.

577,271. Lawn Seed. Seaboard Seed Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,364. Published Apr. 14, 1953. Class 1.

577,272. Lawn Seed. Seaboard Seed Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,368. Published Apr. 14, 1953. Class 1.

577,273. Platform Assemblies Particularly Adapted for Use as the Floor Panel of Portable Compartments Such as House Trailers. Anderson Coach Company, East Tawas, Mich.
Filed Feb. 1, 1952, Serial No. 624,381. Published Apr. 28, 1953. Class 19.

577,274. Hair Tonic. Ezequiel B. Cintron, doing business under the name and style of Tito's Shoe Repairs, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,528. Published Mar. 17, 1953. Class 51.

577,275. Rubber Gloves, Primarily for Surgical Purposes. The Massillon Rubber Company, Massillon, Ohio.
Filed Feb. 5, 1952, Serial No. 624,553. Published Apr. 14, 1953. Class 44.

577,276. Cherry Brandy. La Cigogne de Strasbourg, G. & L. Stein, Societe a Responsabilite Limitee, Schiltigheim, France.
Filed Feb. 6, 1952, Serial No. 624,604. Published Apr. 7, 1953. Class 49.

577,277. Toilet Water and Dusting Powder. Charles of the Ritz, Inc., doing business as Charles of the Ritz, New York, N. Y.
Filed Feb. 7, 1952, Serial No. 624,631. Published Apr. 21, 1953. Class 51.

577,278. Fortune-Telling Game. Henri Englebert, New York, N. Y.
Filed Feb. 8, 1952, Serial No. 624,680. Published Apr. 28, 1953. Class 22.

577,279. Ladies' and Misses' Cardigan Sweaters, Pullover Sweaters, Skirts, Blouses, and Dresses. Scot-Mates Sportswear, Ltd., New York and Brooklyn, N. Y.
Filed Feb. 8, 1952, Serial No. 624,707. Published Apr. 21, 1953. Class 39.

577,280. Electrical Equipment—Namely, Plugs, Sockets, Connectors, Receptacles, and Transformers. Daniel Woodhead Company, Chicago, Ill.
Filed Feb. 14, 1952, Serial No. 624,988. Published Apr. 28, 1953. Class 21.

577,281. Electric Arc-Welding Apparatus Designed To Travel Along a Guideway. Cecil C. Peck Company, Cleveland, Ohio.
Filed Feb. 15, 1952, Serial No. 625,026. Published Apr. 28, 1953. Class 21.

577,282. Ladies' and Misses' Coats. Dave Bellsey Co. Inc., New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,187. Published Apr. 21, 1953. Class 39.

577,283. Incandescent, Fluorescent, and Cold Cathode Electric Lighting Fixtures, and Parts Therefor. Fullerton Manufacturing Corporation, Norwalk, Conn.
Filed Feb. 19, 1952, Serial No. 625,199. Published Apr. 28, 1953. Class 21.

577,284. Moccasins for Use by Men, Women, and Children. Flay F. Baugh, doing business as Baugh's, Temple, Tex.
Filed Feb. 21, 1952, Serial No. 625,327. Published Apr. 7, 1953. Class 39.

577,285. Electrically-Operated Sound Recording and Reproducing Machines—Namely, Dictating Machines and Transcribing Machines, Employing a Thin Flexible Record Member, and Parts Therefor. Dictaphone Corporation, Bridgeport, Conn.
Filed Feb. 25, 1952, Serial No. 625,464. Published Apr. 28, 1953. Class 21.

577,286. Vitamin Fortifications To Be Used in the Preparation of Poultry and Livestock Feeds. Vita + Plus Corporation, Madison, Wis.
Filed Feb. 25, 1952, Serial No. 625,501. Published Apr. 21, 1953. Class 18.

577,287. Iron Sulphate Antibiotic Feed Supplement for Animal Use. Vita + Plus Corporation, Madison, Wis.
Filed Feb. 25, 1952, Serial No. 625,502. Published Apr. 21, 1953. Class 18.

577,288. Preparation for the Treatment of Mange in Animals. Vita + Plus Corporation, Madison, Wis.
Filed Feb. 25, 1952, Serial No. 625,503. Published Apr. 21, 1953. Class 18.

577,289. Flashlights and Parts Therefor. Blake Manufacturing Corporation, Clinton, Mass., and Madison, Wis.
Filed Feb. 28, 1952, Serial No. 625,655. Published Apr. 21, 1953. Class 21.

577,290. Light Reflectors for Electric Lamps. Miro Flector Co., Inc., New York, N. Y.
Filed Feb. 29, 1952, Serial No. 625,750. Published Apr. 28, 1953. Class 21.

577,291. Visible and Audible Electric Signals for Highways, Vehicles, Etc. Sperti Faraday Inc., Cincinnati, Ohio, and Adrian, Mich.
Filed Feb. 29, 1952, Serial No. 625,770. Published Apr. 28, 1953. Class 21.

577,292. Beer of Legal Alcoholic Content. The Hudepohl Brewing Company, Cincinnati, Ohio.
Filed Mar. 1, 1952, Serial No. 625,803. Published Apr. 28, 1953. Class 48.

577,293. Beer of Legal Alcoholic Content. The Hudepohl Brewing Company, Cincinnati, Ohio.
Filed Mar. 1, 1952, Serial No. 625,804. Published Apr. 28, 1953. Class 48.

577,294. Mounting Brackets for Kitchen Utensils. Rival Manufacturing Company, Kansas City, Mo.
Filed Mar. 1, 1952, Serial No. 625,820. Published Oct. 7, 1952. Class 13.

577,295. Preparation for Use as a Household Deodorant and Disinfectant. Walter L. Abele, doing business as Martin Products, Wilmette, Ill.
Filed Mar. 5, 1952, Serial No. 625,947. Published Apr. 28, 1953. Class 6.

577,296. Screws of the Following Nature—Wood, Lag, Cap, Drive, Side, Etc. Continental Screw Company, New Bedford, Mass.
Filed Mar. 5, 1952, Serial No. 625,970. Published Apr. 21, 1953. Class 13.

577,297. Hair Tonic and After Shaving Lotion. Sage Laboratories, Inc., New York, N. Y.
Filed Mar. 6, 1952, Serial No. 626,051. Published Sept. 30, 1952. Class 51.

577,298. Women's, Misses', and Children's Shoes, Slippers, and Moccasins Made of Leather, Fabric, or Compositions or Combinations Thereof. Tru-Stitch Mocassin Corporation, Malone and New York, N. Y.
Filed Mar. 15, 1952, Serial No. 626,546. Published Apr. 7, 1953. Class 39.

577,299. Vehicle Storage Batteries. The Dayton Rubber Company, Dayton, Ohio.
Filed Mar. 19, 1952, Serial No. 626,660. Published Apr. 28, 1953. Class 21.

577,300. Portable Electric Tools Specifically Angle Tools—Namely, Drills and the Like Wherein the Driven Shaft Is Disposed Angularly With Respect to the Drive Shaft. Invincible Tool Company, Inc., Pittsburgh, Pa.
Filed Mar. 21, 1952, Serial No. 626,793. Published Apr. 28, 1953. Class 21.

577,301. Paper Cardboard Cartons. House of Kennedy, Inc., Cleveland, Ohio.
Filed Mar. 22, 1952, Serial No. 626,886. Published Apr. 21, 1953. Class 2.

577,302 Shoes and House Slippers for Women, Misses, and Children and Made Substantially of Leather, Fabric, or Rubber or Combinations Thereof. Trimfoot Company, Farmington, Mo.
Filed Mar. 24, 1952, Serial No. 626,970. Published Apr. 21, 1953. Class 39.

577,303. Emulsifying Agent for Oil With Water. Pennsylvania Refining Company, Butler, Pa.
Filed Mar. 28, 1952, Serial No. 627,216. Published Apr. 28, 1953. Class 6.

577,304. Cotton-Covered Capsules Containing Perfume. Cinco, Saginaw, Mich.
Filed Mar. 29, 1952, Serial No. 627,253. Published Mar. 31, 1953. Class 51.

577,305. Whisky. Long John Distilleries, Limited, London, England.
Filed Apr. 1, 1952, Serial No. 627,393. Published Apr. 7, 1953. Class 49.

577,306. Improved Theophylline. Alexis Moussalli, Paris, France.
Filed Apr. 2, 1952, Serial No. 627,453. Published Apr. 14, 1953. Class 18.

577,307. Ladies', Misses,' and Children's Dresses, Coats, Dress Ensembles, Consisting of Dress and Jacket. Kenwood Modes Corp., New York, N. Y.
Filed Mar. 4, 1952, Serial No. 627,549. Published Apr. 21, 1953. Class 39.

577,308. Strawboard Cartons and Woodpulp Board Cartons. Bowater Paper Company, Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,668. Published Apr. 21, 1953. Class 2.

577,309. Preparation for Straightening or Waving Hair. Irval Cosmetics, Inc., Troy, N. Y.
Filed Apr. 8, 1952, Serial No. 627,748. Published Mar. 31, 1953. Class 51.

577,310. Candy and Chewing Gum. John Mackintosh & Sons Limited, Halifax, England.
Filed Apr. 10, 1952, Serial No. 627,893. Published Apr. 28, 1953. Class 46.

577,311. Automatic Electric Defrosters for Refrigerators and Electric Sockets, Switches, and Wiring Assemblies for Refrigerators. Holwin Corporation, Chicago, Ill.
Filed Apr. 15, 1952, Serial No. 628,106. Published Apr. 14, 1953. Class 21.

577,312. Rubber Vehicle Tires. The Dayton Rubber Company, Dayton, Ohio.
Filed Apr. 16, 1952, Serial No. 628,145. Published Apr. 28, 1953. Class 35.

577,313. Vehicle Hardware—Namely, Seat Adjusters, Roof Bows, Window Rain Deflectors, Glove Compartment Doors, Window Channels, Gutters, Handles, Molding, Ash Trays, Ventilators, Window Assemblies, and Parts Thereof. General Motors Corporation, Detroit, Mich.
Filed Apr. 30, 1952, Serial No. 628,936. Published Apr. 28, 1953. Class 19.

577,314. Door Locks and Parts Thereof. General Motors Corporation, Detroit, Mich.
Filed Apr. 30, 1952, Serial No. 628,938. Published Apr. 21, 1953. Class 25.

577,315. Extract of Beef. Oxo Limited, London, England.
Filed May 6, 1952, Serial No. 629,251. Published Apr. 28, 1953. Class 46.

577,316. Internal Combustion Engines. Sterling Engine Co., Buffalo, N. Y.
Filed May 6, 1952, Serial No. 629,262. Published Mar. 24, 1953. Class 23.

577,317. Borax; Boric Acid; Bromides—Namely, Ammonium Bromide, Potassium Bromide, and Sodium Bromide; Bromine, Lithium Carbonate; Muriate of Potash; Potash Salts; Salt Cake; Soda Ash; Sodium Chloride; Sodium Sulphate; Sodium Carbonate; and Sulphate of Potash. American Potash & Chemical Corporation, New York, N. Y.
Filed May 10, 1952, Serial No. 629,470. Published Apr. 28, 1953. Class 6.

577,318. Relatively Pliable Plastic Sheet Material in the Form of Rolls or Sheets for Further Use in the Industrial Arts. The General Tire & Rubber Company, Akron, Ohio.
Filed May 14, 1952, Serial No. 629,663. Published Apr. 7, 1953. Class 1.

577,319. Relatively Thick, Pliable, Polymeric Material in the Form of Rolls or Sheets for Further Use in the Industrial Arts. The General Tire & Rubber Company, Akron, Ohio.
Filed May 14, 1952, Serial No. 629,665. Published Apr. 7, 1953. Class 1.

577,320. Flexible Calendered Polymeric Sheet Material for Further Use in the Industrial Arts. The General Tire & Rubber Company, Akron, Ohio.
Filed May 14, 1952, Serial No. 629,667. Published Apr. 7, 1953. Class 1.

577,321. Animal Feed for Feeding Pigs. Kraft Foods Company, Chicago, Ill.
Filed May 15, 1952, Serial No. 629,739. Published Apr. 28, 1953. Class 46.

577,322. Hair Tonics and Hair Lotions, Hair Dressings, and Skin Creams. Columbus Wholesale Barber & Beauty Supply Co., Inc., doing business as Endora Products Co., Columbus, Ohio.
Filed May 16, 1952, Serial No. 629,768. Published Mar. 31, 1953. Class 51.



577,323. Toy Comprising Changeable Illustrations Contained in a Pivoted Frame. New York Patent Corporation, Jersey City, N. J.
Filed May 23, 1952, Serial No. 630,145. Published Apr. 28, 1953. Class 22.

577,324. Combination Storm Screen and Sash. Irving Schwartz, doing business as Jerith Manufacturing Co., Philadelphia, Pa.
Filed May 23, 1952, Serial No. 630,155. Published Mar. 24, 1953. Class 12.

577,325. Electric Incandescent Lamps, Electric Wire Connectors, Electric Attachment Plugs, Electric Fluorescent Starters, and Electric Fluorescent Lamps, Electric Fluorescent Signs. Solar Electric Corporation, Warren, Pa.
Filed May 27, 1952, Serial No. 630,355. Published Apr. 28, 1953. Class 21.

577,326. Resinous Plastic Filler for Use With Metals. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed May 29, 1952.
Filed May 29, 1952, Serial No. 630,483. Published Mar. 24, 1953. Class 12.

577,327. Polishing and Finishing Waxes in Paste and Liquid Form. Minwax Company, Inc., New York, N. Y.
Filed May 31, 1952, Serial No. 630,542. Published Apr. 28, 1953. Class 4.

577,328. Ignition and Starting Apparatus for Internal Combustion Engines, Etc. American Bosch Corporation, Springfield, Mass.
Filed June 2, 1952, Serial No. 630,565. Published Apr. 7, 1953. Class 21.

577,329. Insulated Sidings Having a Base of Fiber Board Coated With Asphalt and Surfaced With Granules and Adapted for Use on the Exterior of Buildings and Also Adapted for Use on the Roofs of Buildings as Shingles. Weatherpanel Sidings Inc., Buffalo, N. Y.
Filed June 3, 1952, Serial No. 630,691. Published Mar. 24, 1953. Class 12.

577,330. Deposit and Collection Boxes Made of Metal for Street Collection of Books and the Like. The Boardman Co., Oklahoma City, Okla.
Filed June 5, 1952, Serial No. 630,752. Published Apr. 14, 1953. Class 2.

577,331. Thresholds Made of Laminated Material. The Oscar C. Rixson Co., Chicago, Ill.
Filed June 5, 1952, Serial No. 630,793. Published Mar. 24, 1953. Class 12.

577,332. Men's Cologne in Liquid and Solid Form, After-Shave Lotion, After-Shave Talc, Cologne Deodorant, Hair Dressing, Hair Oil, and Shaving Cream. Stanley Home Products, Inc., Westfield, Mass.
Filed May 28, 1952, Serial No. 630,865. Published Mar. 24, 1953. Class 51.

577,333. Leather and Rubber Boots and Shoes for Men, Women, and Children for Sport and Utility Uses. F. & F. Shoe Company, Chippewa Falls, Wis.
Filed June 10, 1952, Serial No. 631,000. Published Apr. 21, 1953. Class 39.

577,334. Crude Natural and Synthetic Rubber for Further Use in the Industrial Arts, Etc. The General Tire & Rubber Company, Akron, Ohio.
Filed June 13, 1952, Serial No. 631,156. Published Apr. 14, 1953. Class 1.

577,335. Ski Boots, Shoes, and Boots for Men, Women, and Children. Schuhfabrik Henke & Co. Aktiengesellschaft, Stein am Rhein, Switzerland.
Filed June 14, 1952, Serial No. 631,221. Published Apr. 21, 1953. Class 39.

577,336. Coffee, Cheese, Fresh and Smoked Meat—Namely, Beefsteak, Sliced Pork Liver, Souse, Canadian Bacon, Sugar Cured Bacon, and Pig Tails. Meisberger's Markets, Indianapolis, Ind.
Filed June 18, 1952, Serial No. 631,359. Published Apr. 28, 1953. Class 46.

577,337. Corrugated Ferrous Metal Head Walls, Arches, Etc. Armco Steel Corporation, Middletown, Ohio.
Filed June 19, 1952, Serial No. 631,397. Published Apr. 14, 1953. Class 12.

577,338. Farm Machinery—Namely, a Grass Board Lifter for Mowing Machines. Comfort Equipment Company, Kansas City, Mo.
Filed June 20, 1952, Serial No. 631,469. Published Mar. 24, 1953. Class 23.

577,339. Hair Lotion. Quality Chemists, Inc., St. Louis, Mo.
Filed June 21, 1952, Serial No. 631,576. Published Apr. 21, 1953. Class 51.

577,340. Perfume, Toilet Water, Eau de Cologne. David E. Gothé, New York, N. Y.
Filed June 24, 1952, Serial No. 631,663. Published Apr. 14, 1953. Class 51.

577,341. Vinyl Plastic Containers—Namely, Garment Utility Bags, and Shoe Bags. Plastex Protective Products, Inc., Clifton, N. J.
Filed June 24, 1952, Serial No. 631,683. Published Apr. 14, 1953. Class 2.

577,342. Women's Hats, Dresses, Gloves of Leather, Fabric, and Combinations Thereof; Shoes, Scarves, Underwear, Foundation Garments, and Girdles. Lilly Dache, Inc., New York, N. Y.
Filed June 26, 1952, Serial No. 631,790. Published Apr. 14, 1953. Class 39.

577,343. Textile Loom Check Straps. Alexander Brothers Belting Company, Philadelphia, Pa.
Filed June 27, 1952, Serial No. 631,840. Published Mar. 24, 1953. Class 23.

577,344. Crutches. Henniker Crutch Co., Inc., Warner, N. H.
Filed June 27, 1952, Serial No. 631,865. Published Apr. 14, 1953. Class 44.

577,345. Perfumes and Personal Deodorants. Bronislawa Wolocko, Salem, Mass.
Filed July 5, 1952, Serial No. 632,190. Published Mar. 31, 1953. Class 51.

577,346. Scotch Whiskey. MacLachlans Limited, Edinburgh and Glasgow, Scotland.
Filed July 8, 1952, Serial No. 632,254. Published Apr. 28, 1953. Class 49.

577,347. Candy. Williamson Candy Company, Chicago, Ill.
Filed July 8, 1952, Serial No. 632,280. Published Apr. 21, 1953. Class 46.

577,348. Rubber Inflatable Swimming Devices—Namely, Surf Riders and Vests. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,308. Published Apr. 28, 1953. Class 22.

577,349. Rubber Inflatable Swimming Devices—Namely, Surf Riders and Vests. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,309. Published Apr. 28, 1953. Class 22.

577,350. Inflatable Boats and Inflatable Floats for Supporting a Plurality of Humans. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,312. Published Apr. 28, 1953. Class 19.

577,351. Rubber Inflatable Swimming Devices—Namely, Surf Riders and Vests. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,313. Published Apr. 28, 1953. Class 22.

577,352. Men's and Boys' Sport Shirts, Sport Coats, Jackets, Finger Tip Coats, Storm Coats, Leisure Coats, Lumberjackets, Hunting Coats, and Slipover Jackets and Slipover Blouses. Lustberg, Nast & Co. Inc., New York, N. Y.
Filed July 11, 1952, Serial No. 632,435. Published Apr. 14, 1953. Class 39.

577,353. Piston Rings. Ramsey Corporation, doing business as Mo-Speed Piston Rings, St. Louis, Mo.
Filed July 11, 1952, Serial No. 632,442. Published Apr. 28, 1953. Class 35.

577,354. Sporting Goods—Namely, Sleeping Bags for Outdoor Use and Air Mattresses for Outdoor Use. Ames Harris Neville Co., San Francisco, Calif.
Filed July 12, 1952, Serial No. 632,461. Published Apr. 28, 1953. Class 22.

577,355. Fibre Shipping Containers—Namely, Boxes. Longview Fibre Company, Longview, Wash.
Filed July 12, 1952, Serial No. 632,483. Published Apr. 14, 1953. Class 2.

577,356. Hair Coloring Powder. Skin Tested Drug Products, Inc., New York, N. Y.
Filed July 12, 1952, Serial No. 632,493. Published Apr. 14, 1953. Class 51.

577,357. Fresh Vegetables. Pacific Gamble Robinson Co., doing business as Pacific Fruit & Produce Co., Seattle, Wash., and Los Angeles, Calif.
Filed July 15, 1952, Serial No. 632,573. Published Apr. 21, 1953. Class 46.

577,358. Canned Peas. Bozeman Canning Company, Inc., Bozeman, Mont.
Filed July 16, 1952, Serial No. 632,594. Published Apr. 14, 1953. Class 46.

577,359. Canned Peas. Bozeman Canning Company, Inc., Bozeman, Mont.
Filed July 16, 1952, Serial No. 632,598. Published Apr. 14, 1953. Class 46.

577,360. Canned Peas. Bozeman Canning Company, Inc., Bozeman, Mont.
Filed July 16, 1952, Serial No. 632,600. Published Apr. 14, 1953. Class 46.

577,361. Electrically Illuminated, Portable, Directional Signs. Wil-Kin Theatre Supply, Inc., Wilmington, Del., and Atlanta, Ga.
Filed July 16, 1952, Serial No. 632,642. Published Apr. 28, 1953. Class 21.

577,362. Fishing Lines, Fishing Reels, Fishing Rods, Fishing Hooks, Tennis Rackets and Strings Therefor. La Soie, Société Anonyme, Paris, France.
Filed July 18, 1952, Serial No. 632,731. Published Apr. 28, 1953. Class 22.

577,363. Shoes for Men, Women, and Children. Richard Pfifferling, doing business as Tip Top Shoe, New York, N. Y.
Filed July 26, 1952, Serial No. 633,121. Published Apr. 21, 1953. Class 39.

577,364. Spindles and Bearings for Textile Machinery. Universal Winding Company, Cranston, R. I.
Filed July 29, 1952, Serial No. 633,230. Published Mar. 24, 1953. Class 23.

577,365. Bath Enclosures in the Nature of Units Consisting of Frame Members and Panels, Etc. Otto E. Stelzer, South Bend, Ind.
Filed Aug. 1, 1952, Serial No. 633,382. Published Apr. 14, 1953. Class 12.

577,366. Cardboard Cartons for Ice Cream. Bloomer Bros. Company, Newark, N. Y.
Filed Aug. 2, 1952, Serial No. 633,411. Published Apr. 14, 1953. Class 2.

577,367. Distilled Liquors—Namely, Vodka. Sunset Incorporated, Chicago, Ill.
Filed Aug. 2, 1952, Serial No. 633,437. Published Mar. 24, 1953. Class 49.

577,368. Electrical Amplifying Equipment Used in Connection With Musical Instruments—Namely, Amplifiers, Microphones, and Microphone Pickups. Sorkin Music Company, Inc., New York, N. Y.
Filed Aug. 5, 1952, Serial No. 633,514. Published Apr. 28, 1953. Class 21.

577,369. Synthetic Electrical Insulating and/or Cooling Fluid. Wagner Electric Corporation, St. Louis, Mo.
Filed Aug. 5, 1952, Serial No. 633,520. Published Apr. 28, 1953. Class 21.

577,370. Chain Saws and Parts Thereof. Lombard Governor Corporation, Ashland, Mass.
Filed Aug. 7, 1952, Serial No. 633,583. Published Mar. 24, 1953. Class 23.

577,371. Electrically Actuated Governors for Controlling Engine-Generator Units. Waukesha Motor Company, Waukesha, Wis.
Filed Aug. 7, 1952, Serial No. 633,597. Published Apr. 28, 1953. Class 21.

577,372. Corrugated Fibreboard Shipping Cases With Kraft Outer Liners, Corrugated Fibreboard Shipping Cases With Chip Straw Outer Liners, Solid Chipboard Fibre Shipping Cases, White Boxboard Cartons, and Machine Glazed Sulphite Paper Bags. Bowater Paper Company, Inc., New York, N. Y.
Filed Aug. 8, 1952, Serial No. 633,604. Published Apr. 21, 1953. Class 2.

577,373. Typewriters and Parts Thereof. Carl Dowling, New York, N. Y.
Filed Aug. 8, 1952, Serial No. 633,610. Published Mar. 24, 1953. Class 23.

577,374. Automobiles—Namely, Station Wagons and Structural Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania.
Filed Aug. 8, 1952, Serial No. 633,643. Published Apr. 28, 1953. Class 19.

577,375. Men's and Boys' Suits, Jackets, Outer Coats, Trousers, and Vests. Weinberg Corporation, Chicago, Ill.
Filed Aug. 9, 1952, Serial No. 633,690. Published Apr. 14, 1953. Class 39.

577,376. Men's and Boys' Suits, Jackets, Outer Coats, Trousers, and Vests. Weinberg Corporation, Chicago, Ill.
Filed Aug. 9, 1952, Serial No. 633,691. Published Apr. 14, 1953. Class 39.

577,377. Quick Frozen Fowl With Giblets. The Seymour Packing Company, Topeka, Kans.
Filed Aug. 11, 1952, Serial No. 633,741. Published Apr. 14, 1953. Class 46.

577,378. Electrical Annunciator Instruments and Component Parts Thereof, Such as Multiple Relay Plug-In Containers. Panalarm Products, Inc., Chicago, Ill.
Filed Aug. 12, 1952, Serial No. 633,786. Published Apr. 28, 1953. Class 21.

577,379. Butane Storage and Shipping Tanks. Texas Boiler & Machinery Company, Dallas, Tex.
Filed Aug. 14, 1952, Serial No. 633,951. Published Apr. 21, 1953. Class 2.

577,380. Ladies' and Misses' Coats, Suits, Jackets, and Skirts. The House of Swansdown, Inc., New York, N. Y.
Filed Aug. 15, 1952, Serial No. 633,982. Published Apr. 21, 1953. Class 39.

577,381. Athletic Supporters. Johnson & Johnson, New Brunswick, N. J.
Filed Aug. 15, 1952, Serial No. 633,985. Published Apr. 14, 1953. Class 44.



577,382. Electrically Operated Wallpaper Steamers, Comprising a Steam Boiler Having a Heating Element Therein and Means for Interrupting Operation of the Heating Element When the Water in the Tank Drops to a Predetermined Low Level. Willis A. Prain, doing business as The Colonial Co., St. Cloud, Minn.
Filed Aug. 15, 1952, Serial No. 633,997. Published Apr. 28, 1953. Class 21.

577,383. Lancets. Dade Reagents, Inc., Miami, Fla.
Filed Aug. 15, 1952, Serial No. 634,000. Published Apr. 14, 1953. Class 44.

577,384. Collapsible Paperboard Cartons for Frozen Foods. The Interstate Folding Box Company, Middletown, Ohio.
Filed Aug. 16, 1952, Serial No. 634,045. Published Apr. 21, 1953. Class 2.

577,385. Collapsible Paperboard Cartons for Frozen Foods, and Bags for Frozen Foods. The Interstate Folding Box Company, Middletown, Ohio.
Filed Aug. 16, 1952, Serial No. 634,046. Published Apr. 21, 1953. Class 2.

577,386. Electrical Apparatus—Namely, Cables, Single Conductor Wire, Appliance Cord Sets, Insulation Tubing and Harness Assemblies, Comprising Wire and Terminal Plugs and Sockets. Phalo Plastics Corporation, Dover, Del., and Worcester, Mass.
Filed Aug. 19, 1952, Serial No. 634,161. Published Apr. 28, 1953. Class 21.

577,387. Alcoholic Beverages—Namely, Whiskey. The Calvert Distilling Co., New York, N. Y.
Filed Aug. 21, 1952, Serial No. 634,235. Published Apr. 28, 1953. Class 49.

577,388. Toy Picture Projector and Film Therefor. Stephens Products Co., Inc., Middletown, Conn.
Filed Aug. 21, 1952, Serial No. 634,280. Published Apr. 28, 1953. Class 22.

577,389. Cobalt Chromium Alloys. Austenal Laboratories, Incorporated, New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,288. Published Apr. 21, 1953. Class 14.

577,390. Cellular Sponge Rubber. Midcontinent Chemical Company, Grove City, Ohio.
Filed Aug. 23, 1952, Serial No. 634,378. Published Apr. 14, 1953. Class 1.

577,391. Golf Balls, Golf Clubs, Golf Bags, Golf Club Rain Protectors, and Golf Tees. William J. Zwaska, Inc., Wauwatosa, Wis.
Filed Aug. 23, 1952, Serial No. 634,391. Published Apr. 28, 1953. Class 22.

577,392. Plumbing Fittings—Namely, Bath and Shower Fittings, Etc. Kohler Co., Kohler, Wis.
Filed Aug. 28, 1952, Serial No. 634,599. Published Apr. 28, 1953. Class 13.

577,393. Children's Shoes. B. Altman & Co., New York, N. Y.
Filed Sept. 4, 1952, Serial No. 634,830. Published Apr. 21, 1953. Class 39.

577,394. Plastic Sheet Material Adapted To Be Cut Into Letters, Etc. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Sept. 4, 1952, Serial No. 634,854. Published Apr. 7, 1953. Class 1.

577,395. Motorcycles. Indian Sales Corporation, Springfield, Mass., now by change of name The Indian Company.
Filed Sept. 6, 1952, Serial No. 634,940. Published Apr. 28, 1953. Class 19.

577,396. Manually Controlled Syphon Valve for Attachment to a Water Faucet for Introducing at Will, a Detergent Into the Stream. Multi-Meter Corporation, Toledo, Ohio.
Filed Sept. 6, 1952, Serial No. 634,947. Published Apr. 28, 1953. Class 13.

577,397. Galvanized Ware—Namely, Pails, Garbage Cans, and Baskets. Supplee-Biddle-Steltz Company, Philadelphia, Pa.
Filed Sept. 10, 1952, Serial No. 635,103. Published Apr. 14, 1953. Class 2.

577,398. Misses' and Women's Coats and Suits. Linker & Herbert, Inc., New York, N. Y.
Filed Sept. 13, 1952, Serial No. 635,227. Published Apr. 21, 1953. Class 39.

577,399. Men's, Women's, and Children's Shoes. Shoe Corporation of America, Columbus, Ohio.
Filed Sept. 16, 1952, Serial No. 635,328. Published Apr. 7, 1953. Class 39.

577,400. Burial Caskets. National Casket Company, Incorporated, New York, N. Y.
Filed Sept. 18, 1952, Serial No. 635,425. Published Apr. 14, 1953. Class 2.

577,401. Men's and Women's Shoes and Slippers Made of Leather and/or Fabric or Mixtures of These Materials. A. S. Beck Shoe Corporation, New York, N. Y.
Filed Sept. 19, 1952, Serial No. 635,456. Published Apr. 21, 1953. Class 39.

577,402. Plastic Covered Box Particularly Useful for Storing Foods and Other Articles in Refrigerators and Quick Freezers. Nellson M. Mathews, doing business as Valley Forge Creations, Devon, Pa.
Filed Sept. 19, 1952, Serial No. 635,485. Published Apr. 21, 1953. Class 2.

577,403. Fruit and Vegetable Baskets and Boxes, Made of Wood and of Cardboard. Producer's Exchange, Inc., Toledo, Ohio.
Filed Sept. 19, 1952, Serial No. 635,493. Published Apr. 21, 1953. Class 2.

577,404. Men's, Women's, and Children's Footwear, Comprising Shoes, Boots, Overshoes, and Slippers Composed in Whole or in Part of Fabric, Leather, Rubber, or Synthetic Materials. The Ainsworth Shoe Company, Toledo, Ohio.
Filed Sept. 23, 1952, Serial No. 635,618. Published Apr. 21, 1953. Class 39.

577,405. Mineral Water. Edward N. Gackenbach, doing business as Crownhill Laboratories, Wyoming, Pa.
Filed Sept. 23, 1952, Serial No. 635,647. Published Mar. 31, 1953. Class 45.

577,406. Neckties. Skooltie Company, Newton, Mass.
Filed Sept. 25, 1952, Serial No. 635,792. Published Apr. 14, 1953. Class 39.

577,407. Dial Telephone Switching Systems, and Parts Thereof, Step-by-Step Switches, and Parts Thereof. Stromberg-Carlson Company, Rochester, N. Y.
Filed Sept. 27, 1952, Serial No. 635,888. Published Apr. 28, 1953. Class 21.

577,408. Gluten Flour With Soy and Wheat Flour. Charles Killgore Company, Inc., Yonkers, N. Y.
Filed Sept. 30, 1952, Serial No. 635,969. Published Apr. 21, 1953. Class 46.

577,409. Belt Buckles, Strap Buckles, and Metal Wrist Watch Straps All Made of or Plated With Precious Metal. The Wadsworth Watch Case Company, Dayton, Ky.
Filed Oct. 3, 1952, Serial No. 636,042. Published Apr. 14, 1953. Class 28.

577,410. Aromatic Diazoamino Compounds Derived From Aromatic Diazo Compounds and an Amine, Etc. General Dyestuff Corporation, New York, N. Y.
Filed Oct. 2, 1952, Serial No. 636,075. Published Apr. 7, 1953. Class 6.

577,411. Jewelry for Personal Wear Not Including Watches—Namely, Necklaces, Etc. Coro, Inc., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,348. Published Apr. 14, 1953. Class 28.

577,412. Metal Fastening Devices—Namely, Nuts and Bolts, Nuts, Lock Nuts, Nut Locks, and Lock Washers. The Palnut Company, Irvington, N. J.
Filed Oct. 8, 1952, Serial No. 636,378. Published Apr. 14, 1953. Class 13.

577,413. Sheet Metal Nuts for Screws and Bolts. Tinnerman Products, Inc., Cleveland and Brooklyn Village, Ohio.
Filed Oct. 8, 1952, Serial No. 636,393. Published Apr. 14, 1953. Class 13.

577,414. Guards for Flush Valve Handles. Roland W. Downin, doing business as Cecil Plumbing Specialties Company, Port Deposit, Md.
Filed Oct. 13, 1952, Serial No. 636,558. Published Apr. 14, 1953. Class 13.

577,415. Wrist Watch Bracelets, Bands, and Straps. Omega Louis Brandt & Frere, S. A., Bienne, Switzerland.
Filed Oct. 23, 1952, Serial No. 637,075. Published Apr. 14, 1953. Class 28.

577,416. Aluminum Roofing and Siding, Aluminum Windows, Aluminum Awnings, Aluminum Jalousies. Aluminium Caribe Incorporated, New Orleans, La.
Filed Oct. 29, 1952, Serial No. 637,293. Published Apr. 21, 1953. Class 12.

577,417. Egg Cartons. Bloomer Bros. Company, Newark, N. Y.
Filed Oct. 29, 1952, Serial No. 637,299. Published Apr. 21, 1953 Class 2.

577,418. Insecticides. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.
Filed Nov. 4, 1952, Serial No. 637,568. Published Apr. 28, 1953. Class 6.

577,419. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Nov. 5, 1952, Serial No. 637,652. Published Apr. 14, 1953. Class 28.

577,420. Sterling Silver and Silver-Plated Flatware, Hollowware, and Table Cutlery. The Alvin Corporation, Providence, R. I.
Filed Nov. 6, 1952, Serial No. 637,678. Published Apr. 14, 1953. Class 28.

577,421. Anti-Freeze Composition for Use in Engine Cooling Systems. Western Solvents & Chemicals Company, Detroit, Mich.
Filed Nov. 6, 1952, Serial No. 637,738. Published Apr. 28, 1953. Class 6.

577,422. Silverplated Hollowware. Oneida Ltd., Sherrill and Oneida, N. Y.
Filed Nov. 7, 1952, Serial No. 637,788. Published Apr. 14, 1953. Class 28.

577,423. Herb Compound Medicine for Internal Use, and Liniment for External Use. Edward E. Rice, doing business as Nu-Know-U-Well Medicine Co., Elmira, N. Y.
Filed Nov. 6, 1952, Serial No. 638,035. Published May 5, 1953. Class 18.

577,424. Cotton Pick Sacks. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Nov. 14, 1952, Serial No. 638,057. Published Apr. 21, 1953. Class 2.

577,425. Paper Bags. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Nov. 15, 1952, Serial No. 638,176. Published Apr. 21, 1953. Class 2.

577,426. Paper Bags. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Nov. 15, 1952, Serial No. 638,177. Published Apr. 21, 1953. Class 2.

577,427. Shot Shells and Air Rifle Shot. Federal Cartridge Corporation, Minneapolis, Minn.
Filed Nov. 17, 1952, Serial No. 638,197. Published Apr. 28, 1953. Class 9.

577,428. Game Cards for Use in Television and Radio Programs. Dalton Film Company, Tulsa, Okla.
Filed Dec. 12, 1952, Serial No. 639,361. Published Apr. 28, 1953. Class 22.

577,429. Dog Food. The Thorobred Company, Cincinnati, Ohio.
Filed Dec. 20, 1952, Serial No. 639,857. Published Apr. 28, 1953. Class 46.

577,430. Rubber Accelerator. The General Tire & Rubber Company, Akron, Ohio.
Filed Jan. 12, 1953, Serial No. 640,621. Published Apr. 28, 1953. Class 6.

577,431. Synthetic Tanning Agent. American Cyanamid Company, New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,661. Published Apr. 28, 1953. Class 6.

577,432. Hydraulic Fluid. Earle Research Laboratory, Washington, D. C.
Filed Jan. 22, 1953, Serial No. 641,132. Published Apr. 28, 1953. Class 6.

577,433. Welding Flux. Solar Aircraft Company, San Diego, Calif.
Filed Jan. 23, 1953, Serial No. 641,215. Published Apr. 28, 1953. Class 6.

577,434. Cat Food and Dog Food. Felix Fabrieken N. V., Gravenhage, Netherlands.
Filed Feb. 3, 1953, Serial No. 641,677. Published Apr. 21, 1953. Class 46.

577,435. Motor Vehicles of the Passenger and Utility Type, Such as the So Called Station Wagon. International Harvester Company, Chicago, Ill.
Filed Feb. 17, 1953, Serial No. 642,355. Published Apr. 28, 1953. Class 19.

577,436. Cheese. Gennaro Auricchio, S. p. A., San Giuseppe Vesuviano, Italy, and New York, N. Y.
Filed Feb. 18, 1953, Serial No. 642,406. Published Apr. 21, 1953. Class 46.

### Certification Mark

577,437. Fur Garments Intended for Use of Women and Girls, i. e., Coats, Capes, Stoles, Jackets. International Fur and Leather Workers Union of the United States and Canada, New York, N. Y.
Filed Feb. 10, 1951, Serial No. 609,927. Published Apr. 14, 1953. Class 39.

## ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

577,438. (Class 46. Foods and Ingredients of Foods.) Davis Bros. Fisheries Co., Inc., Gloucester, Mass. Original filed, act of 1946, Principal Register, Nov. 22, 1949; amended to application, Supplemental Register, Mar. 21, 1952, Serial No. 588,166.

**FRIDEE FRANKS**

For Packaged and Canned Prepared Fish in the Form of Sausages.
Claims use since Aug. 30, 1949.

577,439. (Class 1. Raw or Partly Prepared Materials.) Sure Strike Bait Co., Alhambra, Calif. Original filed, act of 1946, Principal Register, July 14, 1950; amended to application, Supplemental Register, Sept. 14, 1951, Serial No. 600,705.

**Pocket - Pak**
*'The Worm that Squirms'*

For Fishing Bait, Specifically Live Worms, in Moist Peatmoss Containing Food and Packaged in a Shipping and Dispensing Container.
Claims use since 1925.

577,440. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Ruth V. Benner, doing business as Beaux Art Crafts, Pittsburgh, Pa. Original filed, act of 1946, Principal Register, July 20, 1950; amended to application, Supplemental Register, June 28, 1951, Serial No. 600,943.

*Scroll-etts*

For Ornamental Metal Scrolls for Use on Screen Doors, Storm Doors, and the Like.
Claims use since Aug. 18, 1947.

577,441. (Class 46. Foods and Ingredients of Foods.) The O. A. Cooper Company, Humboldt and Beatrice, Nebr. Original filed, act of 1946, Principal Register, Nov. 7, 1950; amended to application, Supplemental Register, Apr. 7, 1953, Serial No. 605,996.

**DARI-RICH**

For Dry Type of Food Supplement for Cattle.
Claims use since Oct. 9, 1950.

577,442. (Class 46. Foods and Ingredients of Foods.) George C. Chapman, doing business under the fictitious names and styles of Chapman Dehydrator Co. and Chapman Frozen Foods, Modesto, Calif. Original filed, act of 1946, Principal Register, Dec. 21, 1950; amended to application, Supplemental Register, Oct. 1, 1952, Serial No. 607,930.

**Chapman**

The words "Frozen Foods" are disclaimed. The drawing is lined for red.
For Frozen Fresh Fruits and Vegetables.
Claims use since July 1, 1949.

577,443. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) H. H. Cutler Company, Grand Rapids, Mich. Original filed, act of 1946, Principal Register, Jan. 8, 1951; amended to application, Supplemental Register, Feb. 9, 1952, Serial No. 608,494.



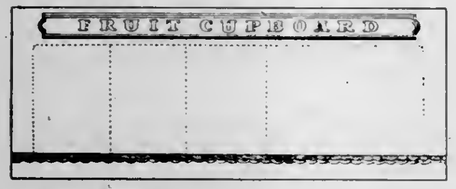

For Pillow Covers, Mattress Covers, and Crib Mattress Covers.
Claims use since May 4, 1950.

577,444. (Class 26. Measuring and Scientific Appliances.) L. M. Prince Co., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Jan. 29, 1951; amended to application, Supplemental Register, Oct. 15, 1952, Serial No. 609,379.

**View Tint**

For Spectacles and Spectacle Lenses for Viewing Television.
Claims use since Jan. 3, 1951.

577,445. (Class 46. Foods and Ingredients of Foods.) Bonner Packing Co., Fresno, Calif. Filed Feb. 12, 1951, Serial No. 609,957.




For Dried Fruits.
Claims use since November 1948.

577,446. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Klik Promotions, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 29, 1951; amended to application, Supplemental Register, Dec. 29, 1952, Serial No. 611,960.

COSMETI-KIT

For Fitted Leather and Simulated Leather Toilet Kits Containing Powder Scoop, Perfume Funnel, and Perfume Bottle.
Claims use since Jan. 25, 1951.

577,447. (Class 16. Protective and Decorative Coatings.) The Martin-Senour Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 16, 1951; amended to application, Supplemental Register, May 16, 1952, Serial No. 612,697.

Shelter Tones

For Ready-Mixed and Semi-Paste Paints and Paint Colors.
Claims use since Dec. 15, 1950.

577,448. (Class 16. Protective and Decorative Coatings.) Masury-Young Company, Charlestown, Mass. Original filed, act of 1946, Principal Register, May 16, 1951; amended to application, Supplemental Register, May 13, 1953, Serial No. 613,939.

Floorsafe

For Water-Emulsion Dressing for Floors.
Claims use since Jan. 15, 1951.

577,449. (Class 21. Electrical Apparatus, Machines and Supplies.) National Products Corporation, Boston and Waltham, Mass. Original filed, act of 1946, Principal Register, June 28, 1951; amended to application, Supplemental Register, May 19, 1953, Serial No. 615,846.

dri-SPARK

For Sheathed Electrical Connectors Particularly Adapted for Use in Ignition Circuits.
Claims use since June 15, 1951.

577,450. (Class 16. Protective and Decorative Coatings.) Bee Chemical Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 1, 1951; amended to application, Supplemental Register, Oct. 15, 1952, Serial No. 619,443.

KROME GUARD

For Pigmented and Unpigmented Paints and Lacquers for Metal Surfaces.
Claims use since Sept. 12, 1951.

577,451. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware. Original filed, act of 1946, Principal Register, Dec. 3, 1951; amended to application, Supplemental Register, Sept. 8, 1952, Serial No. 622,001.

Cushionlok

For Woven Pile Rugs and Carpets.
Claims use since May 1948.

577,452. (Class 32. Furniture and Upholstery.) Globe Parlor Furniture Co., High Point, N. C. Original filed, act of 1946, Principal Register, Dec. 14, 1951; amended to application, Supplemental Register, Feb. 12, 1953, Serial No. 622,494.

Pinehurst Provincial

For Tables and Upholstered Furniture, Specifically Chairs, Love Seats, and Sofas.
Claims use since Nov. 5, 1951.

577,453. (Class 46. Foods and Ingredients of Foods.) Lena C. Burgess, doing business as Strictly Georgia, Miami, Fla. Original filed, act of 1946, Principal Register, Dec. 19, 1951; amended to application, Supplemental Register, Mar. 27, 1953, Serial No. 622,693.

"Strictly" GEORGIA

The drawing is lined for red but no claim is made to color.
For Cane Syrup for Food Purposes, Candied Pecans, Pralines, and Spiced Watermelon.
Claims use since Oct. 31, 1951.



577,454. (Class 12. Construction Materials.) The Ruberoid Co., Hound Brook, N. J., and New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 31, 1952; amended to application, Supplemental Register, Jan. 28, 1953, Serial No. 624,360.

PANELSTONE

Applicant claims ownership of Registration No. 391,305.
For Asbestos-Cement Board.
Claims use since Jan. 7, 1952.

577,455. (Class 39. Clothing.) Blue Bell, Inc., Greensboro, N. C. Original filed, act of 1946, Principal Register, Feb. 4, 1952; amended to application, Supplemental Register, Dec. 20, 1952, Serial No. 624,463.

DUB-L-NEE

For Boys' Dungarees.
Claims use since Dec. 10, 1951.

577,456. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Carroll B. Grueter, doing business as The Waverley Specialty Co., Waverley, Mass. Original filed, act of 1946, Principal Register, Feb. 16, 1952; amended to application, Supplemental Register, Nov. 26, 1952, Serial No. 625,068.

Grueter Defroster

For Fountain Cleaning and Defrosting Apparatus Comprised of a Siphon, Coupling, Hose Adapter, Nozzle and Valve To Be Connected to a Water Line, Sold as a Unit.
Claims use since Jan. 1, 1951.

577,457. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Toscony Fabrics, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, May 4, 1953, Serial No. 625,137.

FILMFLEX

Applicant claims ownership of Registration No. 427,254.
For Plastic Film for Making Into Curtains, Drapes, Table Cloths, Aprons, Rain Coats, and the Like.
Claims use since Sept. 12, 1951.

577,458. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Toscony Fabrics, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, May 4, 1953, Serial No. 625,138.

FILMSET

For Plastic Film for Making Into Curtains, Drapes, Table Cloths, Aprons, Rain Coats, and the Like.
Claims use since Sept. 12, 1951.

577,459. (Class 37. Paper and Stationery.) Orchard Paper Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Feb. 25, 1952; amended to application, Supplemental Register, July 10, 1952, Serial No. 625,486.

BRIGHTON BLEND

For Wrapping Paper.
Claims use since Jan. 10, 1949.

577,460. (Class 40. Fancy Goods, Furnishings, and Notions.) Ben-Hur Products, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 27, 1952; amended to application, Supplemental Register, Dec. 10, 1952, Serial No. 625,577.

Pony Tailer

For Plastic Round Holders in the Nature of Grip Combs for Women's Hair.
Claims use since September 1950.

577,461. (Class 46. Foods and Ingredients of Foods.) American Batter Corporation, Hobbs, N. Mex. Original filed, act of 1946, Principal Register, Feb. 27, 1952; amended to application, Supplemental Register, May 6, 1953, Serial No. 625,570.

CHEF BECKHAM'S

For Prepared Mix for Making a Batter Into Which Onion Rings, Fish, Potatoes, and Other Vegetables May Be Dipped.
Claims use since Jan. 1, 1951.

577,462. (Class 50. Merchandise Not Otherwise Classified.) James E. Neighbor, doing business as Rusticraft Shops, Lafayette, Calif. Original filed, act of 1946, Principal Register, Mar. 3, 1952; amended to application, Supplemental Register, May 6, 1953, Serial No. 625,861.

RUSTICRAFT

For Kits Containing Instruction and a Varied Assortment of Wood Construction Brads, Glue and Wire for Use in Constructing Planters of Various Designs.
Claims use since July 20, 1948.

577,463. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Miron Mills, Inc., Clinton, Mass. Original filed, act of 1946, Principal Register, Mar. 7, 1952; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 626,102.

SPIRALAINE

For Woolen Piece Goods.
Claims use since Feb. 12, 1952.

577,464. (Class 38. Prints and Publications.) The Maujer Publishing Company, St. Joseph, Mich. Original filed, act of 1946, Principal Register, Mar. 28, 1952; amended to application, Supplemental Register, Mar. 11, 1953, Serial No. 627,206.

The
CONSULTING
ENGINEER

For Periodicals Published From Time to Time.
Claims use since Mar. 11, 1952.

577,465. (Class 50. Merchandise Not Otherwise Classified.) Gustave W. Borkland, doing business as Borkland Manufacturing Co., Division of Borkland Laboratories, Marion, Ind. Original filed, act of 1946, Principal Register, Mar. 29, 1952; amended to application, Supplemental Register, Apr. 3, 1953, Serial No. 627,248.

KLIP
A
PART

For Ornaments for Decorating Packages, Tables, and Christmas Trees Comprising Legendary and/or Fictional Characters and Representations of Inanimate Objects, Said Ornaments Being Molded in a Sheet.
Claims use since Feb. 22, 1952.

577,466. (Class 46. Foods and Ingredients of Foods.) Schaffer Stores Company, Inc., Schenectady, N. Y. Original filed, Act of 1946, Principal Register, May 1, 1952; amended to application, Supplemental Register, May 12, 1953, Serial No. 629,059.

*"Pheasanette"*

For Fresh and Fresh Frozen Pheasant-Chicken.
Claims use since July 1950.

577,467. (Class 39. Clothing.) David Richard, Washington, D. C. Original filed, act of 1946, Principal Register, May 21, 1952; amended to application, Supplemental Register, Apr. 16, 1953, Serial No. 630,026.

Rutledge

For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats and Jackets.
Claims use since Feb. 10, 1952.

577,468. (Class 22. Games, Toys, and Sporting Goods.) Charlotte Thorndike North, Montclair, N. J. Original filed, act of 1946, Principal Register, May 29, 1952; amended to application, Supplemental Register, May 11, 1953, Serial No. 630,506.

"MINIKINS"

For Dolls.
Claims use since Apr. 29, 1952.

577,469. (Class 32. Furniture and Upholstery.) The Dinon Corporation, Kansas City, Mo. Original filed, act of 1946, Principal Register, May 31, 1952; amended to application, Supplemental Register, Apr. 30, 1953, Serial No. 630,528.

DINON
Say (DINE ON)

For Table and Chair Sets for Children.
Claims use since Aug. 16, 1951.

577,470. (Class 22. Games, Toys, and Sporting Goods.) Henry Norrholm, New York, N. Y. Original filed, act of 1946, Principal Register, June 5, 1952; amended to application, Supplemental Register, May 11, 1953, Serial No. 630,787.

INTELLIGENT

For Game Played With Small and Large Movable Pieces on a Game Board.
Claims use since May 5, 1952.

577,471. (Class 32. Furniture and Upholstery.) Sturgis Posture Chair Company, Sturgis, Mich. Original filed, act of 1946, Principal Register, June 6, 1952; amended to application, Supplemental Register, Apr. 15, 1953, Serial No. 630,861.

Sturgis
POSTURE CHAIRS

For Chairs.
Claims use since Dec. 1, 1951.

577,472. (Class 22. Games, Toys, and Sporting Goods.) James M. Peterson, doing business as Kite-A-Chute Co., Lansing, Iowa. Original filed, act of 1946, Principal Register, June 16, 1952; amended to application, Supplemental Register, Dec. 15, 1952, Serial No. 631,252.

KITE-a-CHUTE

For Aerial Kite Toy.
Claims use since on or about Dec. 1, 1951.

577,473. (Class 36. Musical Instruments and Supplies.) Walter Hoffman, trading and doing business as Hoffman Record Company, Hollywood, Calif. Original filed, act of 1946, Principal Register, June 20, 1952; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 631,486.

*Hoffman*

For Grooved Phonograph Records.
Claims use since June 15, 1951.



577,474. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Barbet Mills, Inc., Lexington, N. C. Original filed, act of 1946, Principal Register, July 24, 1952; amended to application, Supplemental Register, May 6, 1953, Serial No. 632,974.

NEVASAG

For Cylinder Knitted Fabrics Made of Cotton and Wool.
Claims use since Apr. 1, 1952.

577,475. (Class 16. Protective and Decorative Coatings.) Chemische Forschungsgesellschaft m. b. H., Munich, Bavaria, Germany. Original filed, act of 1946, Principal Register, July 12, 1952; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 633,823.

Wacker-
Kunstschellack

Applicant claims ownership of German Registration No. 422,271, dated Aug. 9, 1930.
For Artificial Shellac.

577,476. (Class 39. Clothing.) Merit Clothing Company, Mayfield, Ky. Original filed, act of 1946, Principal Register, Aug. 28, 1952; amended to application, Supplemental Register, Mar. 13, 1953, Serial No. 634,601.

*Rippletone*

For Men's Suits.
Claims use since on or about Sept. 1, 1950.

577,477. (Class 38. Prints and Publications.) Golf Course Superintendents Association of America, St. Charles, Ill. Original filed, act of 1946, Principal Register, Nov. 8, 1952; amended to application, Supplemental Register, Mar. 16, 1953, Serial No. 637,820.

THE GOLF COURSE REPORTER

For Periodical Publications.
Claims use since Apr. 12, 1951; and since February 1951, as to the words "The Golf Course Reporter."

577,478. (Class 2. Receptacles.) Flower Products Company, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 14, 1952; amended to application, Supplemental Register, Apr. 10, 1953, Serial No. 638,073.

*Fleur-De-Odor*

For Perfume-Impregnated Plastic Flower Pots.
Claims use since Mar. 27, 1952.

577,479. (Class 39. Clothing.) Femode Foundations, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 8, 1953; amended to application, Supplemental Register, May 7, 1953, Serial No. 640,505.

*Elegance*
BY FEMODE

Applicant claims ownership of Registration No. 529,487.
For Ladies' and Misses' Corsets, Corselettes, Girdles, Brassières, Bandeaux, and Panties.
Claims use since Feb. 10, 1948.

**Service Marks**

577,480. (Class 102. Insurance and Financial.) Occidental Life Insurance Company of California, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 6, 1951; amended to application, Supplemental Register, May 18, 1953, Serial No. 608,467.

10-Plus

For Underwriting Group Disability Insurance.
Claims use since Sept. 9, 1950.

577,481. (Class 105. Transportation and Storage.) Compagnie Nationale Air France, Paris, France, and New York, N. Y. Filed June 2, 1952, Serial No. 630,581.

AIR FRANCE

For Air Transportation of Passengers and Freight.
Claims use since July 12, 1947; and since July 12, 1947, in commerce between foreign nations and the United States.

## TRADE-MARK REGISTRATIONS RENEWED

39,723. BOREAS. Registered Feb. 3, 1903. The Procter & Gamble Co., Cincinnati and Ivorydale, Ohio. Renewed Feb. 3, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Seed-Oils and Seed Products. Class 46.

40,815. TREADEASY. Registered July 28, 1903. P. W. Minor & Son. Re-renewed July 28, 1953, to P. W. Minor & Son, Inc., Batavia, N. Y., a corporation of New York. Leather Boots and Shoes. Class 39.

10,986. "ELIZABETH LAZENBY" AND DESIGN. Registered Aug. 25, 1903. E. Lazenby & Son, Limited, London, England. Re-renewed Aug. 25, 1953, to The Crosse & Blackwell Company, Baltimore, Md., a corporation of Maryland. Sauces. Class 46.

41,117. KARO. Registered Sept. 15, 1903. Corn Products Company, Jersey City, N. J., and New York, N. Y. Re-renewed Sept. 15, 1953, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey. Syrup. Class 46.

91,144. "GOLD LEAF BRAND" AND DESIGN LINED FOR GOLD. Registered Apr. 15, 1913. Warren Packing Company, Portland, Oreg. Re-renewed Apr. 15, 1953, to New England Fish Company, Seattle, Wash., a corporation of Maine. Canned Salmon. Class 46.

91,213. HUDNUT'S. Registered Apr. 22, 1913. Richard Hudnut, New York, N. Y., a corporation of New York. Re-renewed Apr. 22, 1953. Perfumes, Sachet-Powder, Toilet Water, Cologne-Waters, Smelling-Salts, Toilet and Face Powders, Etc. Class 51.

91,215. HUDNUT'S. Registered Apr. 22, 1913. Richard Hudnut, New York, N. Y., a corporation of New York. Re-renewed Apr. 22, 1953. Soap (Solid and Liquid). Class 52.

91,874. HOLIDAY. Registered June 3, 1913. Hood Rubber Company, Boston, Mass. Re-renewed June 3, 1953, to General Shoe Corporation, Nashville, Tenn., a corporation of Tennessee. Rubber Boots and Shoes, Rubber Overshoes, and Rubber-Soled Canvas Boots and Shoes. Class 39.

91,908. DUFF GORDON. Registered June 3, 1913. Alex. D. Shaw & Co., New York, N. Y. Re-renewed June 3, 1953, to Duff Gordon & Co., Port St. Mary's, Spain, a firm of Spain. Sherry-Wine. Class 47.

92,500. GOULAC. Registered July 15, 1913. American Gum Products Co., Boston, Mass. Re-renewed July 15, 1953, to American Gum Products Company, New York, N. Y., a corporation of Virginia. Manufactured Gum. Class 5.

92,667. "YORKSHIRE RELISH" ETC. AND DESIGN. Registered July 22, 1913. Goodall Backhouse & Co. Re-renewed July 22, 1953, to Goodall, Backhouse & Co., Limited, Leeds, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Sauces. Class 46.

92,782. LUXEBERRY. Registered July 29, 1913. Berry Brothers. Re-renewed July 29, 1953, to Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan Varnishes. Class 16.

92,886. "G Y V" AND DESIGN. Registered Aug. 5, 1913. Garcia & Vega. Re-renewed Aug. 5, 1953, to Garcia & Vega, Inc., New York, N. Y., a corporation of Florida. Cigars. Class 17.

93,327. LIONOIL. Registered Sept. 9, 1913. Berry Brothers Ltd. Re-renewed Sept. 9, 1953, to Berry Brothers, Inc., Detroit, Mich., a corporation of Michigan. Substitute for Linseed-Oil. Class 16.

93,598. HIVEL. Registered Sept. 30, 1913. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Re-renewed Sept. 30, 1953. Smokeless Powder. Class 9.

93,605. HYGIENOL. Registered Sept. 30, 1913. Maurice Levy, New York, N. Y. Re-renewed Sept. 30, 1953, to Hygienol Company, Inc., New Rochelle, N. Y., a corporation of New York. Powder Puffs. Class 29.

297,424. MYOSTON. Registered Sept. 13, 1932. Chemische und Pharmazeutische Werk Dr. Georg Henning, G. m. b. H., Berlin-Tempelhof, Germany, a firm of Germany. Renewed Sept. 13, 1952. Extract of Skeleton-Muscles, a Preparation Used in the Treatment of Angina Pectoris and Other Heart Vessel Diseases, Etc. Class 18.

299,869. "CHAMPCLOTH" AND DESIGN. Registered Dec. 27, 1932. I. Janov-Abeles Shirt Co., New York, N. Y. Renewed Dec. 27, 1952, to I. Janov Shirt Co., Hazleton, Pa., a firm. Men's Dress Shirts, Negligee Shirts, Collars. Class 39.

300,473. TRI SOAP. Registered Jan. 24, 1933. National Milling & Chemical Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Jan. 24, 1953. Soap Compound. Class 52.

300,584. "TRI-TONE" AND DESIGN. Registered Jan. 24, 1933. Massachusetts Knitting Mills, Boston, Mass. Renewed Jan. 24, 1953, to Manchester Hosiery Mills, Manchester, N. H., a partnership. Hosiery. Class 39.

301,046. BIO-CREAM. Registered Feb. 14, 1933. G. H. Sherman, M. D., Inc. Renewed Feb. 14, 1953, to Sherman Laboratories, Detroit, Mich., a firm. Creams, Salves, or Skin Ointments, Externally Used as a Facial or Other Skin Treatment To Soften the Skin, Etc. Class 51.

301,117. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Collins. Class 2.

301,118. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Soaps, Steel Wool, Washing Compounds, Etc. Class 1.

301,119. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Adhesives Namely, Gums, Glues, Pastes, Binders, Etc. Class 5.

301,120. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Absorbents, Alteratives, Analgesics, Etc. Class 46.

301,122. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Dynhmite and Blasting Powders and the Like, Matches, Fireworks, Etc. Class 9.

301,123 "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Fertilizers. Class 10.

301,124. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Writing Ink, Printers' Ink and Colors. Class 11.

301,125. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Caulking and Packing Materials, Prepared Building Stones, Artificial Building Stones, Etc. Class 12.

301,603. UNI-FLO. Registered Mar. 7, 1933. Uni-Flo Grille Corporation, Detroit, Mich. Renewed Mar. 7, 1953, to Barber-Colman Company, Rockford, Ill., a corporation of Illinois. Grilles for Wall or Floor Registers or Openings Through Which Heated, Cooled, or Ventilating Air Is To Be Passed, Etc. Class 34.

302,011. COLONIAL. Registered Mar. 21, 1933. Universal Appliance Company, Boston, Mass. Renewed Mar. 21, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Oil Burners and Equipment for Ranges. Class 34.

302,070. "KALMS" AND DESIGN. Registered Mar. 28, 1933. Professional Products Corporation, assignor to Johnson & Johnson. Renewed Mar. 28, 1953, to Johnson & Johnson, New Brunswick, N. J., a corporation of New Jersey. Tablets for Pains, Dysmenorrhea, Headaches and the Like. Class 18.



302,295. COR-VAL. Registered Apr. 11, 1933. Phoenix Trimming Co., Chicago, Ill., a corporation of Illinois. Renewed Apr. 11, 1953. Drapes, Curtains, Portieres, Etc. Class 42.

302,405. REPRESENTATION OF BARS AND CIRCLE WITH WINGS. Registered Apr. 18, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed Apr. 18, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Refined, Semi-Refined, and Unrefined Oils and Greases Made From Petroleum, Etc. Class 15.

302,623. SUNRISE TENDER TREATS. Registered Apr. 25, 1933. Merkel Inc., New York, N. Y. Renewed Apr. 25, 1953, to Merkel Inc., Jamaica, N. Y., a corporation of New York. Smoked Butts. Class 46.

302,665. "TOBACCO TWINE." Registered Apr. 25, 1933. Peck & Peck, New York, N. Y., a corporation of New York. Renewed Apr. 25, 1953. Piece Goods of Cotton, Silk, Wool, Linen, Etc. Class 42.

302,698. "SKY RIDERS" AND DESIGN. Registered Apr. 25, 1933. Jarman Shoe Company. Renewed Apr. 25, 1953, to General Shoe Corporation, Nashville, Tenn., a corporation of Tennessee. Shoes of Leather, Fabric, or Combinations Thereof. Class 39.

302,707. CARBOLAC. Registered Apr. 25, 1933. Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts. Renewed Apr. 25, 1953. Carbon Black for Use in the Manufacture of Varnishes and Lacquers. Class 16.

302,734. "PIONEER" ETC. AND DESIGN. Registered Apr. 25, 1933. Pioneer Paper Company, Los Angeles, Calif. Renewed Apr. 25, 1953, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Bituminous Emulsions. Class 12.

302,826. MOTANO. Registered May 2, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed May 2, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

302,905. NUJOL. Registered May 2, 1933. Stanco Incorporated, Wilmington, Del., and New York, N. Y. Renewed May 2, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Mineral Oils and Compounds, Emulsions, and Mixtures of Mineral Oils With Other Substances for Medicinal Purposes. Class 18.

302,956. MIPOR. Registered May 2, 1933. The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey. Renewed May 2, 1953. Electric Storage Battery Separators and Retainers. Class 21.

303,016. "PERFECT KNIGHT" ETC. AND DESIGN. Registered May 9, 1933. Charles Fuchs, Philadelphia, Pa. Renewed May 9, 1953, to Eclipse Sleep Products Inc., Brooklyn, N. Y., a corporation of New York. Bed Springs and Mattresses. Class 32.

303,154. FRESSO. Registered May 16, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed May 16, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

303,168. OILOSTATIC. Registered May 16, 1933. The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey. Renewed May 16, 1953. Electric Cables and for Electric Cable Systems—Comprising Cables, Joints, Terminals, Lugs, Etc. Class 21.

303,210. SUPERRATCHET. Registered May 16, 1933. J. H. Williams & Co., Buffalo, N. Y., a corporation of New York. Renewed May 16, 1953. Wrenches, Wrench Sets, Wrench Sockets, and Tool Handles. Class 23.

303,337. "PEVELY" ETC. AND DESIGN. Registered May 23, 1933. Pevely Dairy Company, St. Louis, Mo., a corporation of Missouri. Renewed May 23, 1953. Milk, Cream, Butter Milk, Ice Cream, Butter, Cottage Cheese, Etc. Class 46.

303,387. VANS. Registered May 23, 1933. Albert V. Shotwell. Renewed May 23, 1953, to Wilco Company, Los Angeles, Calif., a corporation of California. Shoe Dressings. Class 6.

303,577. REPRESENTATION OF PARALLEL RULES. Registered May 30, 1933. The Red Bridge Book Cloth Company Limited, Red Bridge, Ainsworth, Bolton, England. Renewed May 30, 1953, to The Red Bridge Book Cloth Company Limited, Ainsworth, England, a company organized under the laws of Great Britain and Northern Ireland. Tracing Cloth and Tracing Paper. Class 37.

303,623. "FORHAN'S" ETC. Registered May 30, 1933. Forhan Company, Inc. Renewed May 30, 1953, to Zonite Products Corporation, New York, N. Y., a corporation of Delaware. Antiseptic Solution, Pyorrhea Preparation, and Dentifrice. Class 51.

303,683. SOUTHERN STYLE. Registered June 6, 1933. Sidney Harris and William Americus. Renewed June 6, 1953, to Tom Tucker Beverage Company, Pittsburgh, Pa., a co-partnership. Ginger Ale, a Non-Alcoholic, Non-Cereal, Maltless Beverage, Sold as a Soft Drink and Syrup and Extract for Making the Same. Class 45.

303,818. RESECTION BRIEFS. Registered June 6, 1933. Comprex Oscillator Corporation. Renewed June 6, 1953, to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York. Publication Issued Aperiodically. Class 38.

303,917. SWANKIES. Registered June 13, 1933. Model Brassiere Co. Inc. Renewed June 13, 1953, to Model Brassiere Corp., Brooklyn, N. Y., a corporation of New York. Combination Garment Combining the Functions of a Brassière and of a Corset. Class 39.

303,931. ARACAR. Registered June 13, 1933. Standard Oil Company of New Jersey, Wilmington, Del. Renewed June 13, 1953, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Lubricating Oils. Class 15.

303,932. THE IRON CLAW. Registered June 13, 1933. Argus Manufacturing Company, Chicago, Ill., a corporation of Illinois. Renewed June 13, 1953. Handcuffs or Manacles. Class 25.

304,070. SETOLE. Registered June 20, 1933. Warwick Chemical Company, West Warwick, R. I. Renewed June 20, 1953, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Finishing Products and Softeners for Silk, Rayon, and Cotton. Class 6.

304,080. COLOROLE. Registered June 20, 1933. Warwick Chemical Company, West Warwick, R. I. Renewed June 20, 1953, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Chemical Products for Use in the Scouring, Bleaching, and Dyeing of Textiles. Class 6.

304,103. "MARTHA MEADE" AND DESIGN. Registered June 20, 1933. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Renewed June 20, 1953. Wheat Flour, and Cereal Breakfast Foods. Class 46.

304,195. LARVEX. Registered June 27, 1933. The Larvex Corporation. Renewed June 27, 1953, to Zonite Products Corporation, New York, N. Y., a corporation of Delaware. Atomizers for Spraying Insecticides, Mothproofing Compositions, Etc. Class 23.

304,285. "SENECA CLUB" AND DESIGN LINED FOR RED. Registered June 27, 1933. Seneca Food Products Corporation. Renewed June 27, 1953, to The West End Brewing Company, Utica, N. Y., a corporation of New York. Malt Beverages, With Not More Than the Legal Alcoholic Content. Class 48.

304,359. ATLAS. Registered July 4, 1933. Atlas Supply Company, Wilmington, Del., and Newark, N. J. Renewed July 4, 1953, to Atlas Supply Company, Newark, N. J., a corporation of Delaware. Cameras and Sensitized Films for Photographic Use. Class 26.

304,403. "ARONCO" ETC. Registered July 4, 1933. J. Aron & Company, Inc., New York, N. Y., a corporation of New York. Renewed July 4, 1953. Green Coffee. Class 46.

304,537. SPHERON. Registered July 11, 1933. Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts. Renewed July 11, 1953. Carbon Black for Use in the Manufacture of Rubber. Class 6.

304,757. THAT'S MY POP. Registered July 18, 1933. King Features Syndicate, Inc., New York, N. Y. Renewed July 18, 1953, to Milt Gross, Beverly Hills, Calif. Cartoons. Class 38.

304,950. FUADIN. Registered July 25, 1933. Winthrop Chemical Company, Inc. Renewed July 25, 1953, to Winthrop-Stearns Inc., New York, N. Y., a corporation of Delaware. Preparation To Be Used as a Specific Against Granuloma Inguinale, Bilharziasis, and Other Protozoal Infections. Class 18.

305,002. SELOCHROME. Registered July 25, 1933. Ilford, Limited, Ilford, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed July 25, 1953. Sensitized Cinematographic and Photographic Films. Class 26.

305,005. "SENECA CLUB" AND DESIGN. Registered July 25, 1933. Seneca Food Products Corporation. Renewed July 25, 1953, to The West End Brewing Company, Utica, N. Y., a corporation of New York. Malt Beverages With Not More Than the Legal Alcoholic Content—Namely, Beer, Ale, Stout, Bock, Etc. Class 48.

305,187. RIVERDALE. Registered Aug. 8, 1933. John Morrell & Co., Ottumwa, Iowa, a corporation of Maine. Renewed Aug. 8, 1953. Cheese. Class 46.

305,228. "LYN CAST" ETC. AND DESIGN. Registered Aug. 8, 1933. Lynchburg Foundry Company, Lynchburg, Va., a corporation of Virginia. Renewed Aug. 8, 1953. Corrosion-Resisting Alloys and Castings Made Therefrom. Class 14.

305,272. REXVANE. Registered Aug. 8, 1933. B. F. Sturtevant Company. Renewed Aug. 8, 1953, to Westinghouse Electric Corporation, Boston, Mass., a corporation of Pennsylvania. Fans and Blowers. Class 34.

305,355. KIPS. Registered Aug. 15, 1933. Strohmeyer & Arpe Company, New York, N. Y., a corporation of New York. Renewed Aug. 15, 1953. Kippered Herring, and Kipper Snacks. Class 46.

305,613. BROWN BANG. Registered Aug. 22, 1933. Geo. G. Sandeman Sons & Co. Limited, London, England, a limited liability company registered under the laws of Great Britain. Renewed Aug. 22, 1953. Sherry Wine. Class 47.

305,861. NITRAFFIN. Registered Aug. 29, 1933. The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 29, 1953. Lubricating Oils. Class 15.

305,913. TEX-T. Registered Aug. 29,1933. The Texas Company, New York, N. Y., a corporation of Delaware. Renewed Aug. 29, 1953. Petroleum Products, Viz, Lubricating Oils. Class 15.

305,962. ROMANETTES. Registered Aug. 29, 1933. Romanoff Caviar Company, New York, N. Y., a corporation of New York. Renewed Aug. 29, 1953. Prepared Toast for Use With Caviar. Class 46.

306,052. DISSTELL. Registered Sept. 5, 1933. Henry Disston & Sons, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Sept. 5, 1953. Saws, Planar Knives, and Circular Knives. Class 23.

306,189. "T.T.O." AND DESIGN. Registered Sept. 12, 1933. O'Brien Varnish Company. Renewed Sept. 12, 1953, to The O'Brien Corporation, South Bend, Ind., a corporation of Indiana. Clear Varnishes, Ready Mixed Paints, Varnish Enamels, Etc. Class 16.

306,298. EAST WEST. Registered Sept. 12, 1933. Paul A. Dobson, doing business as Paul Dobson, Exeter, Calif. Renewed Sept. 12, 1953. Fresh Grapes. Class 46.

306,492. "RINGLEADER" AND DESIGN. Registered Sept. 19, 1933. San Fernando Heights Orange Association, San Fernando, Calif., a corporation of California. Renewed Sept. 19, 1953. Fresh Citrus Fruit. Class 46.

306,521. SILVERTIP. Registered Sept. 19, 1933. The Colorado Fuel and Iron Company. Renewed Sept. 19, 1953, to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado. Fertilizer. Class 10.

306,581. AKTYN SUNBURN CREAM. Registered Sept. 26, 1933. Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland. Renewed Sept. 26, 1953. Compositions for Preventing and Treating Sunburn. Class 51.

306,611. SPEEDSOPE. Registered Sept. 26, 1933. The Wilbur White Chemical Company, Inc., Owego, N. Y. Renewed Sept. 26, 1953, to Franklin Research Company, Philadelphia, Pa., a corporation of Pennsylvania. Liquid Soap for Cleaning Tile, Etc. Class 52.

306,646. "ULMER QUALITY" AND DESIGN. Registered Sept. 26, 1933. Physicians and Hospitals Supply Company, Inc., doing business as Ulmer Pharmacal Company, Minneapolis, Minn., a corporation of Minnesota. Renewed Sept. 26, 1953. A Pharmaceutical Preparation, for the Medical or Injection Treatment of Varicose Veins. Class 18.

306,689. GEO. W. HEYER. Registered Sept. 26, 1933. George S. Heyer, Houston, Tex., assignor to San Antonio Drug Company. Renewed Sept. 26, 1953, to San Antonio Drug Company, San Antonio, Tex., a corporation of Texas. Skin Powder, Termed "Prickly Heat Powder." Class 18.

306,700. "QUADRIGA CLOTH" ETC. AND DESIGN. Registered Sept. 26, 1933. Ely & Walker Dry Goods Company, St. Louis, Mo., a corporation of Missouri. Renewed Sept. 26, 1953. Cotton Piece Goods. Class 42.

306,735. MOJESTE. Registered Sept. 26, 1933. Mojeste Laboratories, New York, N. Y., a firm. Renewed Sept. 26, 1953. Antiseptic Powder for a Douche and a Deodorant. Class 18.

306,788. FLEXSCREEN. Registered Sept. 26, 1933. Bennett Fireplace Corporation. Renewed Sept. 26, 1953, to Bennett-Ireland, Inc., Norwich, N. Y., a corporation of New York. Fireplace Screens. Class 34.

# TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

## CLASS 2

### RECEPTACLES

Reg. No. 429,905. Registered May 20, 1947. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

**GOLD RUSH**

The word "Gold" is disclaimed apart from the mark as shown.

For Compacts and Lipstick Cases, Made of Plastics and Base Metals, Sold Empty In Trade.

Claims use since Feb. 1, 1946.

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 422,609. Registered July 30, 1946. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

**STRATOLINER**

For Ladies' Handbags of Leather, Fabric, Plastic, and Combinations Thereof.

Claims use since Aug. 1, 1945.

## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Reg. No. 171,082. Registered July 31, 1923. H. H. Barton & Son Co. Inc., Philadelphia, Pa. Republished by Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts.

**NOFIL**

For Aluminum-Oxide Paper, Electric Abrasive Cloth, Garnet Roll Cloth, Garnet Roll Paper, Garnet Sheet Paper, and Silicon-Carbide Paper.

Claims use since about Dec. 5, 1922.

## CLASS 5

### ADHESIVES

Reg. No. 344,059. Registered Mar. 9, 1937. Marbon Corporation, Chicago, Ill., a corporation of Delaware. Republished by registrant, present address, Gary, Ind.

**MARBON**

For Adhesives.

Claims use since Sept. 15, 1936.

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 290,741. Registered Jan. 12, 1932. Shawinigan Products Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

**GELVA**

For Synthetic Resinous Material.

Claims use since Sept. 7, 1929.

## CLASS 12

### CONSTRUCTION MATERIALS

Reg. No. 245,460. Registered Aug. 14, 1928. The Colorado Portland Cement Company, Denver, Colo. Republished by Ideal Cement Company, Denver, Colo., a corporation of Colorado.




No claim is made to the representation of the paper bag or sack nor to the words "Hydro-Plastic Waterproof" apart from the mark as shown.

For Water Proof Cement.

Claims use since Nov. 15, 1927.

Reg. No. 332,467. Registered Feb. 18, 1936. The Marietta Paint & Color Co., Marietta, Ohio. Republished by American-Marietta Company, Chicago, Ill., a corporation of Illinois.

**KRAXTAY**

For Crack and Crevice Filler.

Claims use since June 1934.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 94,189. Registered Nov. 11, 1913. The Marietta Paint & Color Co., Marietta, Ohio. Republished by American-Marietta Company, Chicago, Ill., a corporation of Illinois.

§ PARTANA

For Varnish Stain.
Claims use since Jan. 1, 1913.

Reg. No. 150,891. Registered Jan. 10, 1922. The Marietta Paint & Color Co., Marietta, Ohio. Republished by American-Marietta Company, Chicago, Ill., a corporation of Illinois.




For Interior Floor Paint, Porch and Deck Paint, Automobile Paint Enamels, Varnish, Wood Finish, Ground Colors, Opaque Enamel, Stains, and Mixed Paints.
Claims use since 1898.

Reg. No. 311,726. Registered Apr. 3, 1934. The Marietta Paint & Color Co., Marietta, Ohio. Republished by American-Marietta Company, Chicago, Ill., a corporation of Illinois.

ARTWALL

For Interior Wall Paint in Paste and Liquid Form.
Claims use since June 27, 1916.

## CLASS 39

### CLOTHING

Reg. No. 301,322. Registered Feb. 28, 1933. The May Department Stores Company, St. Louis, Mo., a corporation of New York. Republished by registrant.

ROCHAMBEAU

For Men's Ties.
Claims use since about Aug. 29, 1931.

## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Reg. No. 324,099. Registered May 14, 1935. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

PROTECTA

For Hair Bandeaux.
Claims use since Sept. 15, 1934.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 103,207. Registered Mar. 23, 1915. Putnam Knitting Co., Cohoes, N. Y., a corporation of New York. Republished by registrant.

Turknit

For Knitted Wash Cloths and Towels.
Claims use since about Dec. 1, 1907.

Reg. No. 156,730. Registered July 11, 1922. Pendleton Woolen Mills, Pendleton, Oreg., a corporation of Oregon. Republished by registrant, present address Portland, Oreg.

CAYUSE

For Indian Blankets; Wool in the Piece for Making Bathrobes, Blankets, and Shawls; Bath-Robe Blankets—Namely, an Indian Blanket With a Felt Strip; Indian Shawls in the Nature of Blankets; Robes for Coverings Used in Vehicles, Furniture, Etc.; Suitings and Flannels in the Piece.
Claims use since January 1910.

Reg. No. 212,278. Registered Apr. 27, 1926. Pendleton Woolen Mills, Portland, Oreg., a corporation of Oregon. Republished by registrant.




For Textile Blankets.
Claims use since May 1923.



Reg. No. 215,591. Registered July 20, 1926. Pendleton Woolen Mills, Portland, Oreg., a corporation of Oregon. Republished by registrant.




For Blankets of Cotton and Woolen Materials.
Claims use since September 1916.

Reg. No. 222,644. Registered Jan. 4, 1927. Pendleton Woolen Mills, Portland, Oreg., a corporation of Oregon. Republished by registrant.

*Rosaria*

For Woolen Blankets.
Claims use since Aug. 1, 1925.

Reg. No. 223,756. Registered Feb. 8, 1927. Pendleton Woolen Mills, Portland, Oreg., a corporation of Oregon. Republished by registrant.




For Textile Blankets.
Claims use since September 1925.

Reg. No. 398,262. Registered Oct. 20, 1942. Capitol Piece Dye Works, Inc., New York and Garnerville, N. Y., a corporation of New York. Republished by registrant, present address, New York, N. Y.

RAY-O-SET

For Piece Goods of Silk, Rayon, and Cotton and of Mixtures Thereof.
Claims use since June 1, 1940.

Reg. No. 408,638. Registered Aug. 22, 1944. Siegel Bros. Garment Corp., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

NEEDLETONE

For Woolen and Worated Fabrics in the Piece.
Claims use since Jan. 1, 1933.

Reg. No. 432,973. Registered Sept. 23, 1947. Albert H. Vandam Co. Inc., New York, N. Y. Republished by D. B. Fuller & Co., Inc., New York, N. Y., a corporation of New York.

PLAYLAND

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Jan. 10, 1945.

Reg. No. 437,794. Registered Mar. 30, 1948. D. B. Fuller & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

RANCH COUNTRY

For Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since May 16, 1946.

Reg. No. 439,242. Registered June 8, 1948. M. J. Whittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

WHITTALL

DEVENS

The word "Devens" is disclaimed apart from the mark as shown.
For Carpets and Rugs.
Claims use since Jan. 2, 1946.

Reg. No. 439,618. Registered July 6, 1948. M. J. Whittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

WHITTALL

BRENTON

The word "Brenton" is disclaimed apart from the mark as shown.
For Carpets and Rugs.
Claims use since May 1, 1936.

Reg. No. 440,247. Registered Aug. 17, 1948. M. J. Whittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

WHITTALL

JEFFERSON

The word "Jefferson" is disclaimed apart from the mark as shown.
For Carpets and Rugs.
Claims use since Jan. 24, 1934.

Reg. No. 440,822. Registered Sept. 28, 1948. M. J. Whittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

WHITTALL

VICTORIA

For Carpets and Rugs, Excepting Cotton Floor Rugs.
Claims use since Jan. 2, 1886.

Reg. No. 440,823. Registered Sept. 28, 1948. M. J. Whittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

WHITTALL

CAMEON

For Carpets and Rugs.
Claims use since Jan. 2, 1946.

## CLASS 43

### THREAD AND YARN

Reg. No. 303,627. Registered May 30, 1933. Carter & Parker Limited, Guiseley, England, a corporation organized under the laws of Great Britain. Republished by registrant.

WENDY

For Yarns of Wool, Worsted, or Hair.
Claims use since Apr. 20, 1928.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 320,203. Registered Dec. 18, 1934. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

ARDENA
TWIN
ROLLER

The words "Twin Roller" are disclaimed apart from the mark as shown.
For Massage Rollers.
Claims use since Apr. 2, 1932.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Reg. No. 44,818. Registered July 25, 1905. Pillsbury-Washburn Flour Mills Company, Ltd., Minneapolis, Minn. Republished by Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware.




For Flour Made From Wheat.
Claims use since about July 1, 1885.

Reg. No. 252,933. Registered Feb. 19, 1929. Noah M. Wheatley, doing business as Old Mission Fig Bar Co., Oakland, Calif. Republished by Mother's Cake & Cookie Co., Oakland, Calif., a corporation of California.

Old Mission

The drawing is lined for orange.
For Fig Bars (a Bakery Product).
Claims use since July 1, 1927.

Reg. No. 285,362. Registered July 28, 1931. Lambert Marketing Co., Sacramento, Calif., a corporation of California. Republished by registrant.

BIG CITY

For Fresh Vegetables.
Claims use since Feb. 10, 1931

Reg. No. 287,439. Registered Sept. 29, 1931. Lambert Marketing Co., Sacramento, Calif., a corporation of California. Republished by registrant.

LEAPS
AHEAD

For Fresh Vegetables, Fresh Deciduous Fruits.
Claims use since Mar. 22, 1931.

Reg. No. 298,341. Registered Oct. 25, 1932. Lambert Marketing Co., Sacramento, Calif., a corporation of California. Republished by registrant.

TOP CARD

For Fresh Grapes, Fresh Deciduous Fruits, Fresh Vegetables.
Claims use since Sept. 16, 1931.



Reg. No. 300,898. Registered Feb. 14, 1933. Soya Products, Inc., Chicago, Ill. Republished by Allied Mills, Inc., Chicago, Ill., a corporation of Indiana.

SOY-MIN

The word "Soy" is disclaimed apart from the mark as shown.
For Commercial Feeds for Livestock.
Claims use since Jan. 30, 1932.

Reg. No. 441,193. Registered Nov. 2, 1948. Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Republished by registrant.

Pillsbury's

For Wheat Flours—Namely, Enriched Phosphated Flour and Enriched Self-Rising Flour.
Claims use since the year 1871.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Reg. No. 316,408. Registered Aug. 28, 1934. Duggan's Limited, Jersey City, N. J. Republished by Duggan's Distillers Products, Corp., Newark, N. J., a corporation of Delaware.

DUGGAN'S DEW

For Whiskey.
Claims use since May 12, 1934.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Reg. No. 300,725. Registered Feb. 7, 1933. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

no delay

For Brushless Shaving Cream.
Claims use since about Aug. 15, 1932.



Reg. No. 309,323. Registered Jan. 9, 1934. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

Ardena
SOOTHING CREAM

The words "Soothing Cream" are disclaimed apart from the mark as shown.
For Cosmetic Cream for Eruptions of the Skin.
Claims use since July 24, 1933.

Reg. No. 311,947. Registered Apr. 10, 1934. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The representation of the container and the words "Sun-Pruf Cream" are disclaimed apart from the mark as shown.
For Sunburn Cream.
Claims use since May 19, 1933.

Reg. No. 311,948. Registered Apr. 10, 1934. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.




The representation of the container and the words "Beauty Film" are disclaimed apart from the mark as shown.
For a Preparation for Application to the Legs and Arms to Cover Blemishes, Such as Bruises, Varicose Veins,

Etc. It Is Used in the Summer Time in Place of Stockings, Giving Numerous Desired Tints.
Claims use since May 19, 1933.

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Reg. No. 320,225. Registered Dec. 18, 1934. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## NEDRA

For Deodorants.
Claims use since Nov. 22, 1932.

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Reg. No. 338,323. Registered Sept. 1, 1936. De Long Laboratories, Inc., doing business as Elizabeth Arden Laboratories, and screen and stage make-up by Elizabeth Arden, Ltd., Hollywood, Calif. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## NUCHROMATIC

For Foundation Cream.
Claims use since July 1, 1935.

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Reg. No. 341,579. Registered Dec. 15, 1936. Bonwit Teller, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## PEDI-SLEEK

For Preparations for the Removal of Superfluous Hair.
Claims use since May 31, 1936.

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Reg. No. 342,994. Registered Feb. 9, 1937. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.



For Suntan Oil, Sun-Proof Cream, Bronze Liquid Lotion for Face and Body.
Claims use since July 19, 1935.

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Reg. No. 353,193. Registered Dec. 28, 1937. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## REDWOOD

For Nail Polish.
Claims use since June 24, 1937.

Reg. No. 355,895. Registered Apr. 5, 1938. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## STIMULASH

For Eyelash Grower.
Claims use since Oct. 13, 1937.

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Reg. No. 355,904. Registered Apr. 5, 1938. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## FIRM-O-LIFT

For Face Creams.
Claims use since Oct. 15, 1937.

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Reg. No. 358,616. Registered July 19, 1938. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## PROTECTO

For Nail Polishes.
Claims use since Nov. 15, 1937.

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Reg. No. 361,998. Registered Nov. 8, 1938. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## SKY PINK

The word "Pink" is disclaimed apart from the mark as shown.
For Lipstick, Face Powder, Perfume.
Claims use since May 4, 1938.

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Reg. No. 365,009. Registered Feb. 21, 1939. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## PRINCE'S FEATHER

For Powder, Lipsticks, Cheek Rouge, Nail Polishes, and Perfume.
Claims use since Sept. 1, 1938.

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Reg. No. 369,736. Registered Aug. 1, 1939. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## STOP RED

The word "Red" is disclaimed apart from the mark as shown.
For Lipstick, Rouge, and Nail Polish.
Claims use since Feb. 20, 1939.



Reg. No. 371,473. Registered Sept. 26, 1939. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## ARDENA SPORTS GELÉE

The word "Gelée" is disclaimed apart from the mark as shown.
For Toilet Cream or Jelly.
Claims use since Apr. 15, 1939.

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Reg. No. 381,026. Registered Sept. 10, 1940. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## THREE IN ONE

For Toilet Cream.
Claims use since Apr. 1, 1940.

Reg. No. 382,029. Registered Oct. 15, 1940. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

## SUMMER SUN

For Face Powder.
Claims use since May 8, 1940.

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Reg. No. 436,554. Registered Feb. 10, 1948. Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.

## ARDENA FLUFFY MILK BATH PETALS

The term "Milk Bath" is disclaimed apart from the mark as shown.
For Bubble Bath Preparation.
Claims use since Jan. 14, 1946.

# REISSUES

JULY 14, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

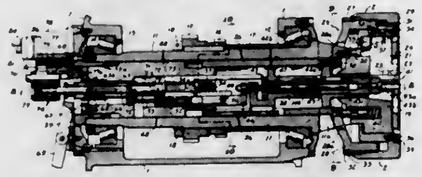
23,684

## MACHINE TOOL

**William L. Benninghoff, Waite Hill Village, and Alexander F. Robertson, South Euclid, Ohio, assignors to The Pipe Machinery Company, Cleveland, Ohio, a corporation of Ohio**

**Original No. 2,576,095, dated November 27, 1951, Serial No. 579,752, February 26, 1945. Application for reissue January 16, 1952, Serial No. 266,731**

**25 Claims. (Cl. 10—96)**



5. In a machine tool, the combination of a main frame; thread-cutting mechanism operatively supported on the frame; chuck mechanism operatively supported on the frame; power-driven means for effecting synchronized rotational and translational movements of the thread-cutting and chuck mechanisms in relation to each other and to the main frame, the means for effecting the translational movement comprising a cam slidably mounted for rectilinear movement on one of the three frames thread-cutting and chuck parts of the tool and a follower mounted on another of said parts for adjustment thereon transversely of the cam movement to different operative positions for cooperation with the face of said cam and serving when adjusted to vary the positions of the thread-cutting and chuck mechanisms in relation to each other at the beginning of the said translational movement which effects the thread-cutting operation.

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23,685

## ALLOY STEEL

**William Charles Clarke, Jr., Dundalk, Md., assignor to Armco Steel Corporation, a corporation of Ohio**

**No Drawing. Original No. 2,528,637, dated November 7, 1950, Serial No. 768,718, August 14, 1947. Application for reissue February 7, 1951, Serial No. 209,910**

**5 Claims. (Cl. 148—31)**

1. Heat-hardened stainless steel [characterized by resistance to creep and stress rupture, the steel being] of austenitic chromium-nickel grade free of amounts of ferrite beyond about 2% by volume, and containing, in addition to about 16% to 26% chromium and 6% to 30% nickel, about 0.05% to 0.5% phosphorus, and the remainder substantially all iron, and said steel having a finely divided precipitate in the matrix for slip interference at high temperatures produced by annealing at [2000° F. to 2250° F.] *a sufficiently high temperature and for long enough time to form a solid solution of phosphorus* and quenching followed by precipitation-hardening from 1200° F. to 1500° F.

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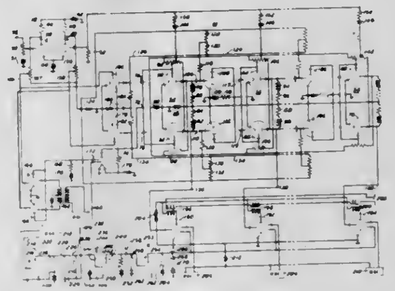
23,686

## COMMUNICATION SYSTEM

**Raymond A. Heising, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Original No. 2,539,623, dated January 30, 1951, Serial No. 727,973, February 12, 1947. Application for reissue December 29, 1951, Serial No. 264,110**

**11 Claims. (Cl. 332—11)**



1. In a communication system for transmitting complex waves, a coder for expressing the instantaneous amplitude of a complex wave to be transmitted in n-digit binary code comprising a reversible binary counter of n stages each stage having an operated and an unoperated condition, output connections from each of said stages providing an output voltage change when the corresponding stage is in the operated condition, and means responsive to the amplitude of the complex wave to be transmitted to control the direction of counting of said counter for maintaining the n-digit binary code group formed by the voltages appearing at said output connections representative of said amplitude.

# PLANT PATENTS

GRANTED JULY 14, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,201
**FUCHSIA PLANT**
**Horace M. Tiret, San Francisco, Calif.**
**Application February 27, 1952, Serial No. 273,704**
**1 Claim. (Cl. 47—60)**

The new and distinct variety of fuchsia plant herein described and illustrated, characterized by a distinctive form resulting from the combination of the exceptionally long, slender tube, the long, recurved sepals tending to spread in all directions without pattern, and which lend a grotesque appearance to the plant, and the loosely formed petals.

1,202
**FUCHSIA PLANT**
**Horace M. Tiret, San Francisco, Calif.**
**Application February 27, 1952, Serial No. 273,705**
**1 Claim. (Cl. 47—60)**

The new and distinct variety of fuchsia plant herein described and illustrated, characterized by the exceptionally large size of the flower and the deep petunia purple coloring, combined with the orchid-like form.

1,203
**FUCHSIA PLANT**
**Horace M. Tiret, San Francisco, Calif.**
**Application February 27, 1952, Serial No. 273,706**
**1 Claim. (Cl. 47—60)**

The new and distinct variety of fuchsia plant herein described and illustrated, characterized by the broad, recurved pale crimson sepals in combination with the pale orchid petals.

1,204
**FUCHSIA PLANT**
**Horace M. Tiret, San Francisco, Calif.**
**Application February 27, 1952, Serial No. 273,707**
**1 Claim. (Cl. 47—60)**

The new and distinct variety of fuchsia plant herein described and illustrated, characterized by the distinctive deep doge purple color of the petals, combined with the extremely long, white, flesh pink sepals.

1,205
**PEACH TREE**
**James Valdero, Parlier, Calif.**
**Application October 30, 1951, Serial No. 253,768**
**1 Claim. (Cl. 47—62)**

The variety of peach tree herein illustrated and described characterized as to novelty by the brilliant green of its foliage, the firm light cream flesh of its freestone fruit having a brilliantly carmine pit well radiantly streaked into the flesh ripening approximately concurrently with the Babcock, the graduated coloring of the skin from light cream to ox-blood red, dependent upon exposure to the sun during maturation, the progressive flavor change from a pear-like quality in early maturity to that suggestive of a White Heath clingstone with a nectarine tang at full maturity, and the ability to sustain marketable condition for a protracted period when left on the tree.

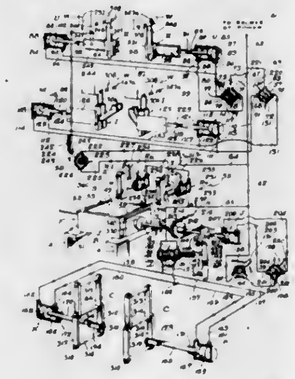


# PATENTS

GRANTED JULY 14, 1953

## GENERAL AND MECHANICAL

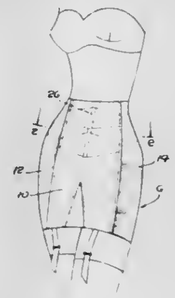
2,644,944
**MEANS FOR STRAPPING BOXES**
**Herbert Kott, Flushing, N. Y., assignor to Automatic Nailing Machinery Co., Inc., New York, N. Y., a corporation of New York**
**Application July 9, 1948, Serial No. 37,840**
**20 Claims. (Cl. 1—10)**



1. A box strapping machine, comprising box holding means to support the bottom of the box when the box is being nailed, means for supporting strapping material, feed means for feeding ends of the strapping material to extend over the ends of the box when the box is so supported in position for nailing, clamping means to removably grasp and turn the box, nailing means to nail the end of the strapping to the ends of the box, means to move said holding means away from the box, and means to rotate said box and cause said strapping to wind around said box.

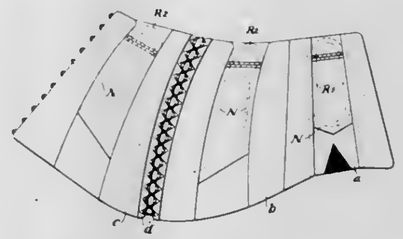
2,644,945
**FOUNDATION GARMENT**
**Benn Lewis, Maplewood, N. J., assignor to The Lewel Manufacturing Company, Inc., New York, N. Y., a corporation of New Jersey**
**Application January 11, 1952, Serial No. 265,946**
**1 Claim. (Cl. 2—27)**

A foundation garment including circumferentially resilient flank portions extending from the waist to the bottom of the garment, a circumferentially inelastic panel extending between and connected to the front edges of the flank portions, and an inner belt in back of the circumferentially inelastic panel, the ends of said inner belt being secured to the foundation garment at the sides of the inelastic panel, said inner belt including four longitudinally elastic webs, one pair of webs constituting one side of the belt and the other pair of webs constituting the other side of the belt, the outer edges of each pair of webs overlapping and being disposed at a side of the inelastic panel, one web of each pair extending upwardly from the outer edge toward the center of the belt and the other web of each pair extending downwardly whereby to provide a pair of upper webs and a pair of lower webs, the upper webs defining a shallow upwardly pointing V and the lower webs defining a shallow downwardly pointing V, the inner edges of the



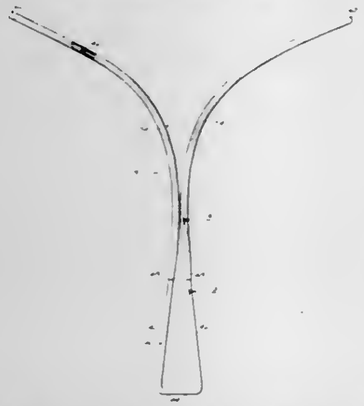
upper web of each pair of webs being secured to one another, the inner edges of the lower web of each pair of webs being secured to one another, a stay, and means to secure said stay to the inner edges of said webs whereby to hold the apices of the V's apart.

2,644,946
**CORSET SPRING**
**Emil Menz and Marie Wilhelmine Schmidt, née Loedel, Rothenburg ob der Tauber, Germany**
**Application April 13, 1951, Serial No. 220,782**
**In Germany June 17, 1949**
**6 Claims. (Cl. 2—36)**



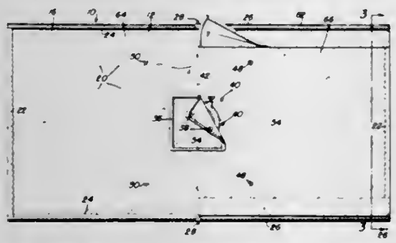
1. In combination with a corset having a stay-receiving pocket in the front part thereof, a surface tension spring for use as a corset stay removably mounted in the pocket and forming a supporting member, said stay comprising a flat ring of a diameter greater than the diameter of the pocket wall and formed of overlapping spirals and being resilient in longitudinal and transverse directions when placed in said pocket.

**2,644,947**
## BRASSIÈRE
**Herbert L. Schwartz, New York, N. Y., assignor to S & S Industries, Bronx, N. Y., a copartnership composed of Herbert L. Schwartz, Marcus Schwartz, and Elsie Schwartz**
**Application July 15, 1949, Serial No. 104,868**
**6 Claims. (Cl. 2—42)**



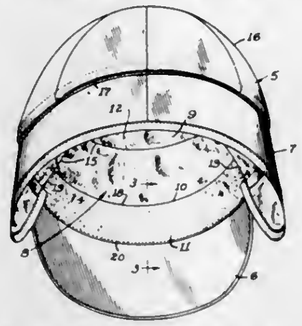
1. A form preserver for a brassière, comprising a first substantially U-shaped resilient wire having adjacent legs and a connecting yoke, and first and second continuous resilient wire extensions on each of said legs of which said first wire extension is next to said leg, said wire extensions on said legs are outwardly curved and the diameter of said first wire extensions is smaller than the diameter of said first wire whereby the flexibility of said first wire extensions is greater than that of said first wire while the flexibility of said second wire extensions is greater than that of said first wire extensions, said adjacent legs converging towards each other in the relaxed condition of said first wire.

**2,644,948**
## COMBINED GARMENT AND SLEEPING BAG
**Addis Gutmann, Seattle, Wash.**
**Application January 8, 1951, Serial No. 204,884**
**1 Claim. (Cl. 2—69.5)**



As a new article of manufacture, a cape convertible to a sleeping bag, said article comprising an oblong rectangular sheet of flexible material doubled upon itself along a transverse fold line and affording substantially square front and rear panels when the article is used as a cape, said panels having contiguous side edges, said sheet being provided at the center thereof with a neck receiving opening intersected by said fold line, an openable closure provided on said sheet for said opening, means provided on said contiguous side edges for separably connecting the same together, the doubled sheet having an oblong rectangular center portion, a pair of relatively large triangular side corner portions and a pair of relatively small triangular end corner portions with respect to an axis offset by approximately 45° from a perpendicular to a midpoint on said fold line, said side corner portions being folded on said center portion parallel to said axis and having their apices overlapped when the article is used as a sleeping bag, one of said small end corner portions being disposed at said fold line and constituting the lower end of the sleeping bag, and a tie cord secured to said sheet and extending around the folded side corner portions, the other corner portion having detached marginal edges and the top layer thereof being folded upon the center portion to afford an entrance for the sleeping bag.

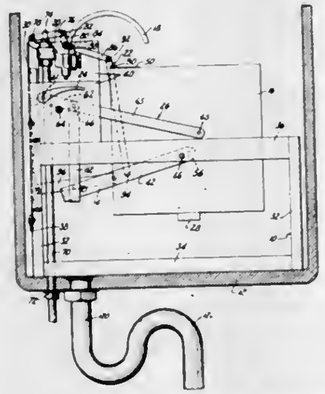
**2,644,949**
## LINED CAP CONSTRUCTION
**Harry D. Greenberg and Irene L. Sutton, Rockford, Ill., assignors to Sports-Styles, Inc., Rockford, Ill., a corporation of Illinois**
**Application January 5, 1950, Serial No. 136,994**
**3 Claims. (Cl. 2—195)**



2. In a cap, the combination of an elongated generally rectangular sweatband member for engagement with the wearer's forehead and formed of an absorbent material and secured along its lower edge to the inner lower front portion of the cap, and a lining in said cap stitched by its lower circumferential edge portion to the lower edge portion of said cap and having an elongated generally rectangular cut-out provided in the front portion in which said sweatband member is stitched along its top and end edges to form an integral portion of the lining.

**2,644,950**
## FLUSHING DEVICE
**Raymond J. Chapman, Wawaka, Ind., assignor of one-sixth to Roy J. Jorg, one-sixth to Grace C. Jorg, and one-sixth to Roy J. Jorg, Jr., all of Ligonier, Ind.**
**Application January 2, 1951, Serial No. 204,016**
**2 Claims. (Cl. 4—32)**

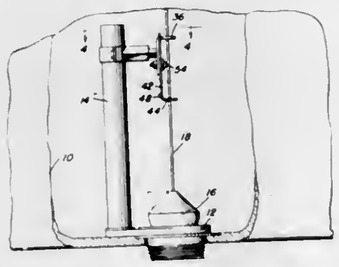
1. A flushing device comprising a support, a tank, a lever pivoted to said support and pivotally mounting said tank centrally thereof, liquid supply means for filling said tank including a valve, a valve actuating link pivotally connected to said lever, the pivot connection of said lever and support being interposed between the pivot connections of said lever with said tank and said link, respectively, whereby said link closes said valve when said tank has been filled to a predetermined level, a toggle unit having a pair of pivotally connected parts, one toggle part being pivoted to said support, the other toggle part being pivoted to said tank spaced from the pivot connection between said tank and lever, a stop



for locking said toggle unit in extended position, and a counterweighted linkage pivoted to said support and to said lever for shifting said lever and its valve-actuating link to valve-opening position when said tank is empty.



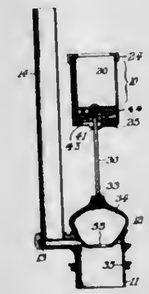
**2,644,951**
## FLUSH VALVE LIFT ROD GUIDE
**Anthony Rand, Des Moines, Iowa**
**Application May 17, 1951, Serial No. 226,913**
**8 Claims. (Cl. 4—57)**



1. A flush valve guide comprising upper and lower brackets, a fastener securing said brackets together for relative vertical sliding movement, apertured portions on each bracket for receiving the stem of a flush valve, a support attached to one of said brackets for mounting the same within a flush tank in fixed relation to a flush valve seat, one bracket being fixedly secured to a flush valve stem for movement therewith, the apertured portion of the other bracket guidingly and slidingly receiving a flush valve stem.

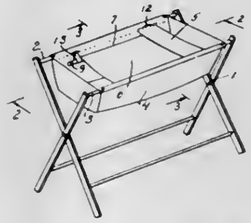
**2,644,952**
## FLUSH VALVE
**Albert B. Boyd, Drexel Hill, Pa.**
**Application September 15, 1950, Serial No. 184,988**
**10 Claims. (Cl. 4—67)**

1. A flush-valve operating device comprising an actuator cylinder having one end substantially open, a closure for the opposed end with provision for attachment thereto of a pressure fluid supply conduit; a self-closing valve in said conduit located above the level of the cylinder open end; an apertured boss, forming part of the closure, affording guidance for the rod of a disc-piston movable within the cylinder, and having secured to its free end the flush-controlling valve; a relief orifice in the cylinder closure; and an



overbalanced valve, pivotally mounted to the closure boss, normally effective to tilt when the supply of pressure fluid to the actuator cylinder is shut off by the closure of the self-closing valve with simultaneous opening of the relief orifice and, contrariwise, automatically closing the relief orifice when the self-closing valve is moved to initiate the flushing operation.

**2,644,953**
## INFANT'S BATHING DEVICE
**Benjamin H. Kennedy, Pittsford, N. Y.**
**Application October 11, 1947, Serial No. 779,282**
**1 Claim. (Cl. 4—177)**

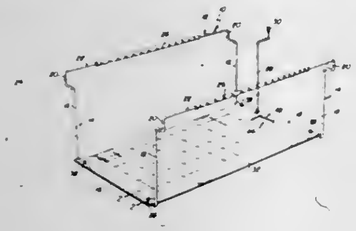


The improvement in infants bathing devices having a collapsible fabric tub supported on a stand which comprises a headrest of fabric material stitched to opposite sides of the tub at a position spaced from the end of the tub in spanning relation and above the tub bottom, strap loops attached to the tub beneath the headrest by said stitching, hammock rods supported by the strap loops, and a hammock removably supported inside the tub on the rods and arranged to span the tub at a lower level than the headrest.

**2,644,954**
## GUARD FOR BATHTUBS AND SHOWER STALLS
**Herman E. Jumper, Port Clinton, Ohio**
**Application August 1, 1950, Serial No. 177,052**
**6 Claims. (Cl. 4—185)**

1. A bath or shower guard, comprising a frame including a pair of substantially U-shaped end members affording bight portions adapted to be positioned on the bottom of a bath tub or the floor of a shower stall and pairs of uprights ex-

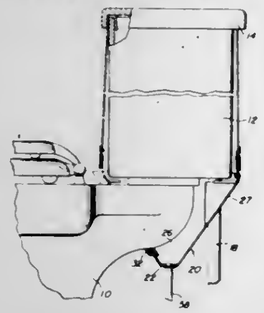
tending therefrom, a pair of horizontal hand rails extending longitudinally between said end



members and connected to upper ends of said uprights, and a mat extending between and secured to the bight portions of said members.

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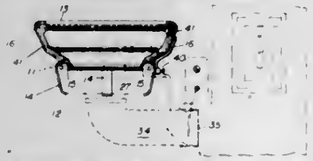
**2,644,955**
**SWEAT PAN FOR FLUSH TANKS**
**Ewing F. Matthews, Batesville, Ark.**
**Application May 18, 1950, Serial No. 162,663**
**2 Claims. (Cl. 4—252)**



1. In combination with a toilet assembly including a bowl, a water chest and a riser for the chest, a sweat pan attachment comprising a receptacle having side walls and a bottom wall, one of said side walls having a notched upper edge conforming to the shape of the rear portion of the bowl and engaging the rear portion of the bowl, resilient hook means carried at the corners of said receptacle and engaging the top of said chest to suspend the receptacle beneath the chest, a slot in that side wall of the receptacle opposite said one side wall forming a pocket receiving the riser, and a closure plate on the upper end of the pocket to shunt liquid draining from the chest adjacent the riser into the receptacle.

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**2,644,956**
**SALIVA BOWL GUARD**
**Carl H. Oertel, Baltimore, Md.**
**Application December 4, 1950, Serial No. 199,081**
**3 Claims. (Cl. 4—263)**



1. In combination with a dental bowl for oral excreta, an apron formed to fit around a predetermined portion of said bowl and including clamps for removably attaching it thereto, said apron having portions bent into an inwardly curved form to fit over the rim of said bowl to be supported thereby, and means for conveying water to the apron and distributing it across the inner face thereof, said means attached to said apron and including means for coupling it to an extraneous water supply.

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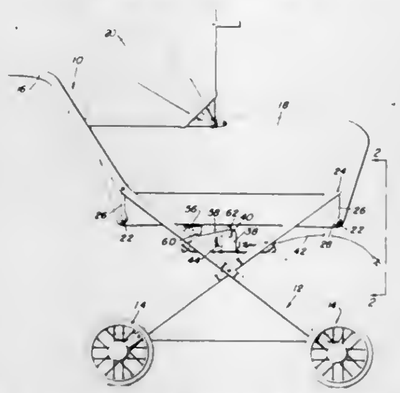
**2,644,957**
**BED COMMODE**
**Alfred J. Shudde, Houston, Tex.**
**Application August 12, 1949, Serial No. 109,907**
**1 Claim. (Cl. 5—91)**



A bed commode adapted to be firmly and securely anchored in a substantially ovate opening in a mattress, said opening being narrowed at one end and having substantially straight vertical walls, the mattress being supported by substantially horizontal springs comprising, a substantially ovate body narrowed at one end, a seat on said body defined by inner and outer downwardly curved flange members providing an inner and outer peripheral flange, inner lip members integral with said seat proximate the forward end, said body defined by substantially vertical sides of a height equal to the depth of the mattress into which the body is inserted and a substantially planar bottom.

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**2,644,958**
**ELECTRIC CRADLE**
**Warren G. Davis, Madisonville, Ky.**
**Application May 3, 1951, Serial No. 224,272**
**2 Claims. (Cl. 5—109)**

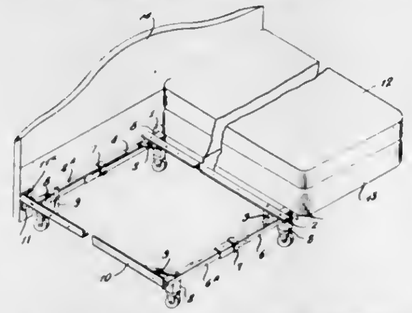


2. An electric cradle comprising a wheeled collapsible carriage, said carriage including spaced pairs of support members, means pivotally attaching one support member of each pair of support members to the other support member of the respective pairs of support members, a base secured to each of said support members above said means, a crib, means detachably securing said crib to said carriage, an electric motor secured to said base, a time switch operatively connected to said motor for controlling the period of operation of said motor, and connecting means operatively detachably connecting said motor with said crib, said connecting means including a crank arm on said motor, a bracket on said crib, and a connecting rod pivotally secured to said bracket and said crank arm, said bracket including a base plate and a connecting plate attached to said base plate, an aperture in said base plate, a dowel secured to said base plate, a socket in said crib, said dowel being received in said socket, and a fastener engaging said crib engaged in said aperture.



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**2,644,959**
**CENTER SUPPORT UNIT FOR BEDFRAMES**
**Nathan E. Blanke, and Hilliard J. Sands, Cleveland, Ohio, assignors to The Harvard Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application March 22, 1949, Serial No. 82,756**
**1 Claim. (Cl. 5—185)**

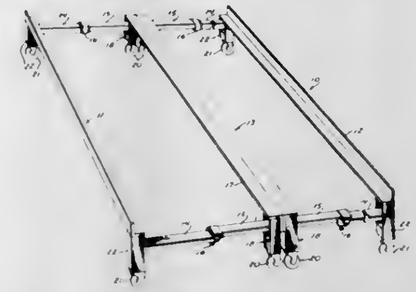


A bedframe comprising a center support unit, including a pair of longitudinally extending angle members each having adjacent dependent sides, a support member secured to said angle members adjacent each end thereof and aiding in securing them together as a unit, said angle members having flat upper surfaces for engaging and supporting purposes, cross rail means secured to said angle members at each of the ends thereof and extending normally from the unit formed of said angle members in both directions, the upper surfaces of said cross rails being substantially horizontally aligned with the upper surfaces of said angle members; side rails of right angular shape in section, each having a horizontally directed supporting leg and a limiting leg extending vertically upwardly from the supporting leg at the laterally outer margin thereof; and cross rails secured to and extending from said side rails with upper surfaces substantially aligned with said supporting legs for co-operative support action with said supporting legs, and with said cross rail means of said center support unit and the upper surfaces of said angle members of said center support unit.

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**2,644,960**
**CENTER SUPPORT UNIT FOR BEDFRAMES**
**Nathan E. Blanke and Hilliard J. Sands, Cleveland, Ohio, assignors to The Harvard Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application December 9, 1949, Serial No. 131,969**
**5 Claims. (Cl. 5—185)**

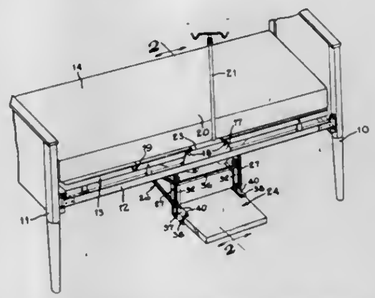
1. A longitudinally extending center support unit for a bedframe, said unit comprising a pair of elongated angles, each of said angles having a dependent leg and being substantially of the length of a bedframe, means securing said angles together in permanently fixed relation with the dependent legs abutted, a pair of leg supports secured to opposed surfaces of the dependent legs of said angles adjacent each end thereof, the upper edges of said leg supports being below the the upper portions of said angles, support means engaged with at least one of said leg supports at



each end, and a cross rail removably but rigidly secured to each of said leg supports and extending substantially normally from each of said angles with the cross rails at each pair of leg supports extending in opposite but aligned directions, said leg supports including U-shaped means each of which has a laterally inner surface with a substantially vertically extending slot therein, said cross rails each having a stud secured thereto in engagement with said slot to secure a cross rail to each leg support.

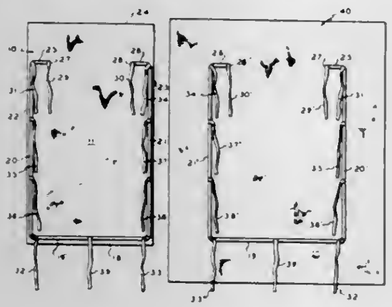
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**2,644,961**
**SAFETY STEP FOR BEDS**
**William A. Hillenbrand, Franklin County, and Francis J. Burst, Batesville, Ind., assignors to Hill-Rom Company, Inc., Batesville, Ind., a corporation of Indiana**
**Application July 21, 1948, Serial No. 39,896**
**6 Claims. (Cl. 5—317)**



1. The combination of a bed of the type having longitudinal side rails and a frame structure having its opposite ends secured to the respective longitudinal side rails and extending underneath the bed crosswise thereof, said frame structure including a pair of vertically disposed mounting bars at one end thereof and a similar pair of mounting bars at the other end thereof, a pair of hangers, a step panel mounted upon the hangers, and means for removably fastening said pair of hangers selectively to either of the pairs of mounting bars.

**2,644,962**
## BED COVERING
**Lois W. McCrory, Jeffersonville, Ga.**
**Application May 3, 1950, Serial No. 159,830**
**9 Claims. (Cl. 5—336)**

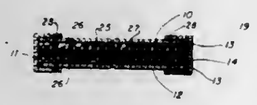


1. Bed covering comprising a bottom sheet having fastening elements defining a sleeping area and a cooperating top sheet overlying and separably secured to said bottom sheet having complementary separable fastening elements at least some of which are spaced laterally of said top sheet at substantially greater distances than the distances between the corresponding fastening elements of the bottom sheet.

2. Bed covering as defined in claim 1 wherein one of said sheets is of a width sufficient to provide side border portions outside of the sleeping area that are foldable under the side edges of a mattress.

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**2,644,963**
## PAD
**Harry E. Hitchens, Baltimore, Md., assignor, by direct and mesne assignments, of fifty per cent to John Elmer Berl, Baltimore, Md.**
**Application June 18, 1948, Serial No. 33,750**
**3 Claims. (Cl. 5—354)**

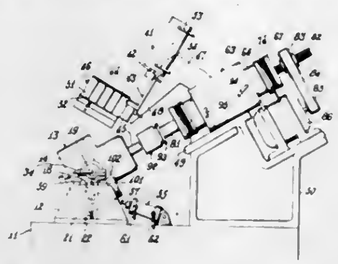


1. A pad comprising an intermediate woven layer, a pair of opposed coverings extending one on each side of the intermediate layer and having its edges co-extensive with those of the layer, a tape folded about and having its folds covering the meeting edges of said layer and covering, and stitching securing the folds of the tape together across said coverings and intermediate layer.

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**2,644,964**
## NIPPLE THREADING MACHINE
**Donald D. R. Mackintosh, Chicago, Ill.**
**Application February 23, 1949, Serial No. 77,720**
**6 Claims. (Cl. 10—105)**

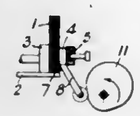
1. In a nipple threading machine, a chuck adapted to hold a work piece, a rotatable shaft carrying a threading head, yieldable supports for said chuck, means pivotally mounting said chuck on said supports so that the chuck may rock to carry the work piece into and out of axial alignment with the rotatable shaft, means actuable when the work piece moves into alignment with the shaft to rotate the shaft and threading head, means to advance and retract the threading head toward and away from the work piece when the



latter is in alignment therewith, and means actuable upon yielding of a chuck support in response to excessive torque imparted to the chuck effective to stop the advance of the threading head.

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**2,644,965**
## NIPPING PRESS FOR BOOKBINDING
**Lewis George Kitcat, London, England**
**Application January 23, 1951, Serial No. 207,320**
**In Great Britain May 5, 1949**
**8 Claims. (Cl. 11—1)**

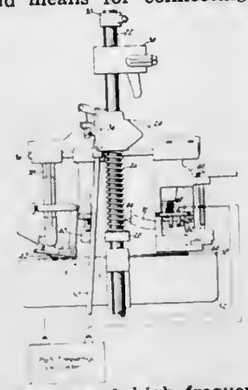


1. A press for use in bookbinding and particularly for removing the swell at the backs of the assemblies of sheets to form books comprising a platform acting as a location abutment for the back edge of the work, opposed spaced grippers parallel with said platform and between which the work is located when its back edge is abutted against the platform, means to drive one gripper towards the other to grip the work, the grippers being so related positionally relative to the platform that when the work is gripped a marginal side part containing the swell is left exposed, work pinching means actuated relative to said grippers to compress the said exposed marginal part of the work following the gripping of the work by said grippers, and means separating the platform from the work contemporaneously with said compression of the said marginal part.

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**2,644,966**
## APPARATUS FOR DIELECTRIC ADHESIVE BONDING OF SHOE PARTS
**Carl Juhola, Manchester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application April 14, 1950, Serial No. 156,016**
**3 Claims. (Cl. 12—33.2)**

1. In apparatus for attaching soles to shoes, means for supporting a shoe, means for supporting a sole in registering engagement with said shoe with a layer of adhesive between the attaching surfaces of the shoe and sole, a last having on its bottom margin a pair of electrodes permanently mounted in spaced parallel relation with each other and adapted to be received in said shoe for establishing an electric field in the adhesive, and means for connecting the elec-

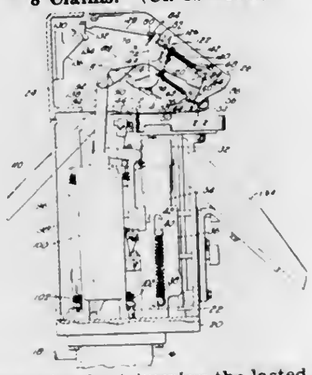


trodes to a source of high-frequency electric energy.

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**2,644,967**
## MACHINE FOR TRIMMING LASTED SHOES
**Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application May 29, 1952, Serial No. 290,620**
**8 Claims. (Cl. 12—83.5)**

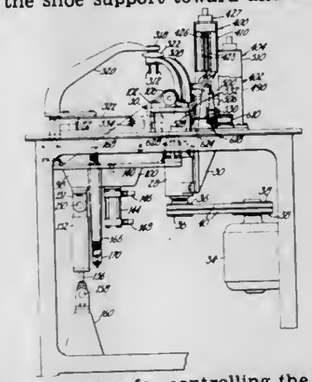


1. A machine for trimming the lasted marginal upper material on the bottom of the forepart of a shoe including a thin presser means for applying pressure to the overlasted marginal portions of said shoe, said presser means having an inner curved contour for defining the material to be trimmed, blade holders arranged for contactual relation with opposite portions of said presser means, and a flexible blade carried by said holders and extending transversely of the bottom of the shoe, said holders and presser means being cooperatively related to flex said blade to conform at least a portion thereof substantially to the transverse curvature of the shoe bottom.

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**2,644,968**
## MACHINE FOR SHAPING THE HEEL ENDS OF SHOES
**Walter L. Benedict, Stoneham, Harry D. Goodnow, Wellesley, and Frank Puisifer, Hamilton, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application August 25, 1951, Serial No. 243,642**
**50 Claims. (Cl. 12—87)**

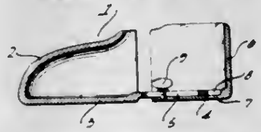
1. A machine for shaping the heel ends of shoes having, in combination, a power-driven tool for trimming the attached heel and adjacent portion of the heel end of the outsole of a shoe, a support for the shoe, mechanism for turning the support to cause said tool to operate along the entire periphery of the heel end of the shoe, from the corner of the heel breast on one side of the heel to the corner of the heel breast on the opposite side thereof, power-operated means for moving the shoe support toward and away from



the tool, and means for controlling the operation of said power-operated means including a feeler adapted to engage the heel end of the shoe and operable to effect movement of the shoe support toward and away from the tool, as the support is turned, thereby causing the tool to trim the attached heel and adjacent portion of the heel end of the outsole to a shape corresponding to the shape of the heel end of the shoe, as detected by said feeler.

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**2,644,969**
## BABY BOOTEE STRETCHER
**Alva B. Reser, Long Beach, Calif.**
**Application August 6, 1951, Serial No. 240,492**
**1 Claim. (Cl. 12—128)**



A baby bootee stretcher comprising a hollow toe section shaped to fit the toe of a bootee, a bottom wall on said toe section, a tongue projecting rearwardly from said bottom wall, a hollow heel section the top of said heel section being open, a bottom wall on said heel section, the last named bottom wall having a recess formed therein shaped to fit and receive said tongue the depth of said recess being equal to the thickness of said tongue, said tongue having an elongated slot formed therein, a set screw threaded into the bottom wall of the heel section, said set screw extending through said groove, and said set screw bearing against the tongue to hold the tongue in adjusted position in said recess.

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**2,644,970**
## HOLLOW FORMER FOR THE MANUFACTURE OF SHOES
**Pierre Henri Gallan, Marseille, France**
**Application August 13, 1951, Serial No. 241,621**
**In France February 10, 1951**
**4 Claims. (Cl. 12—133)**

1. A hollow shoe last comprising a hollow metal shell including a toe, arch and heel portion of

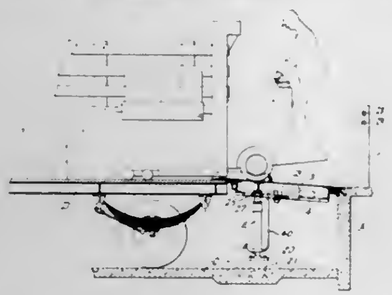
a shape corresponding to that of the shoe to be formed, said shell having in its upper surface a parallel-sided longitudinal opening extending from a point near the tip of the toe portion to a point near the rear end of the heel portion, an upper shaping block mounted above the hollow metal shell and engaged at its forward lower part in the opening of the shell, a bracket



secured to the upper shaping block and extending along the top of the shell to the tip of the heel portion thereof, a releasable latch mounted on the bracket and adapted to engage with the heel portion of the shell to secure the bracket and upper shaping block to the shell, and a handle mounted on the bracket for manipulation of the last.

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**2,644,971**
**LOADING DOCK CONSTRUCTION**
**Arthur E. Rowe, Cleveland, Ohio**
**Application November 18, 1949, Serial No. 128,040**
**6 Claims. (Cl. 14—71)**



1. In a loading dock construction, in combination, a main elevated dock, a loading and unloading platform, to which a vehicle may be backed, said platform being connected at its inner end to the dock and movable upwardly and downwardly at its outer end, a lift unit coacting with the platform to elevate and lower the same, control mechanism for said lift unit including means for effecting raising and lowering of the platform, lay-over arms on said outer end of the platform disposed to engage the floor of a vehicle backed up to the platform for supporting the platform, instrumentalities carried by the lay-over arms operable by the floor of a vehicle when the arms engage said floor, and means operable by said instrumentalities to deactivate the lift unit for transferring the weight of the platform at its outer end to the vehicle on engagement of the lay-over arms therewith.

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**2,644,972**
**HOLDER FOR ELECTRICALLY OPERATED TOOTHBRUSHES AND THE LIKE**
**George B. Ubel, Buffalo, N. Y.**
**Application May 13, 1948, Serial No. 26,816**
**6 Claims. (Cl. 15—22)**

1. An electrically-operated toilet-article holder, comprising a casing formed to fit the hand so as to serve as a grip element and having a support-ing-arm extending outwardly from one end of said casing and provided with a groove extending along the upper face thereof, an article-holding member slidably mounted in said groove and adapted for reciprocating movement therein, said holding member having a loop-like housing at its outer end, a resilient sealing member fitted in said loop-like housing and having an opening therein, a toilet article having a handle passed



through the opening of said resilient sealing member while compressing the latter to assure a snug fit therewith and having a servicing portion at its outer end, said handle extending inwardly and outwardly from said resilient sealing member and having its inner end attached to said holding member, and electrically-operated means within said casing having operative connection with said holding member to cause the latter and the toilet article carried thereby to be reciprocated.

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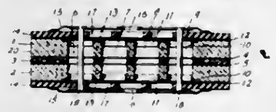
**2,644,973**
**ROTARY TOOTHBRUSH WITH LIP GUARD**
**Donald P. Grover, Chicago, Ill.**
**Application November 3, 1950, Serial No. 193,843**
**7 Claims. (Cl. 15—23)**



1. A rotary toothbrush of the class described, comprising a handle portion having a rotatable shaft extending therethrough, guard supporting means having edge portions extending longitudinally of said handle portion and extending forwardly from one end thereof and located on opposite sides of a vertical plane passing through said handle portion, a spindle supporting member fixed to the outer ends of said guard supporting means, one end of said shaft and said spindle supporting means being adapted to rotatably support a spindle having bristles thereon forming a brush element, and lip guard means extending in a straight line inwardly from the edge portions of said guard supporting means and in a common plane below said brush spindle.

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**2,644,974**
**CLEANING PAD FOR WINDSHIELDS**
**John W. Anderson, Gary, Ind., assignor to Productive Inventions, Inc., a corporation of Indiana**
**Application July 29, 1947, Serial No. 764,343**
**17 Claims. (Cl. 15—121)**



14. A generally rectangular cleaning pad comprising three stacked layers of water absorbent material, supports of nonabsorbent material for said layers disposed on opposite sides of the intermediate layer, resilient squeegee members arranged at the outer sides of the outer layers, plates overlying the squeegee members, and means connected to said plates for holding the layers, supports, members and plates assembled.



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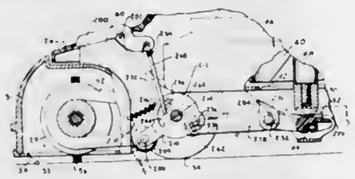
**2,644,975**
**WARE LINING TOOL**
**Richard J. Verba, Fairview Village, Ohio, assignor to Howard V. Schweitzer, Shaker Heights, Ohio**
**Application September 21, 1950, Serial No. 186,068**
**7 Claims. (Cl. 15—132.5)**



1. In a striping device, a body, a wheel rotatably mounted on said body, said wheel having a peripheral rim, said rim being narrower than the diameter of said wheel, means carried by said body for delivering liquid coating material to said rim, said means comprising an unobstructed passageway terminating in an open end in apposition to said rim, and pliable means carried by said body and slidably contacting said rim across the entire width of said rim to wipe said rim and control the application of liquid coating material by said wheel.

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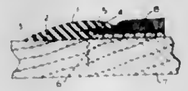
**2,644,976**
**CONVERSION ARRANGEMENT FOR SUCTION CLEANERS**
**Ralph C. Osborn, Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich., a corporation of Michigan**
**Application March 19, 1947, Serial No. 735,592**
**3 Claims. (Cl. 15—333)**



1. A suction cleaner having a body with a nozzle at the forward end thereof, front and rear wheels normally supporting said body for movement on a surface covering with said nozzle operatively positioned relative to said surface covering, a surface covering agitator operatively associated with said nozzle for operation on said surface covering, a suction creating fan, a motor for driving said fan, a suction air passageway between said fan and nozzle, a belt in said suction air passageway between said motor and agitator to operate the latter, said body having a converter port above said nozzle and connected to said suction air passageway for receiving a converter element to convert the cleaner for off-the-floor cleaning, a cover movably mounted on said body and arranged for closing or opening said port, nozzle elevating means movably mounted on said cleaner relative to said wheels and operable for elevating said nozzle and agitator to an inoperative position relative to said surface covering and foot pedal means connected to said converter port cover and to said elevating means for operating said elevating means to elevate said nozzle and agitator and to move said converter port cover to its open position.

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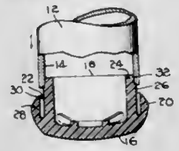
**2,644,977**
**RETAINER MOLDING FOR FLOOR COVERINGS**
**Samuel P. June, Willoughby, Ohio**
**Application September 13, 1949, Serial No. 115,382**
**2 Claims. (Cl. 16—7)**



2. A device for holding a floor covering and the like against movement out of its normal position of lay on a support, the device comprising a resilient body portion, an anchor means extending outwardly from said body portion, a resilient lip extending outwardly from said body portion and over said anchor means and adapted to be moved upwardly out of its normal biasing position to expose said anchor means and permit the insertion of securing means into said anchor means whereby said lip is forced into biasing relation with said floor covering thereby pressing said floor covering directly against said support and a tail portion starting from said body portion and tapering downwardly away therefrom in a direction opposite to the resilient lip for engagement with said support, whereby an approach to said covering is made over a surface formed by said device which rises gradually from the surface of said support to a plane substantially parallel with the upper surface of said covering.

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**2,644,978**
**CLOSURE MEMBER FOR TUBE ENDS**
**Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application June 9, 1950, Serial No. 167,130**
**4 Claims. (Cl. 16—42)**



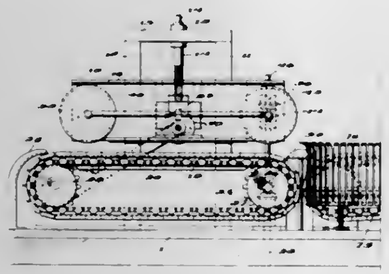
3. In a closure assembly, for a support having an opening therein of a predetermined size, a closure member for insertion into the opening, said member being formed of a relatively rigid synthetic organic plastic, and comprising a base, an upwardly extending tubular member disposed on the base with circumferentially spaced longitudinal rib portions disposed thereon, said tubular member being of a smaller diameter than the support opening, and the outer surfaces of said rib portions defining a circumference of a diameter exceeding that of the support opening.

2,644,979

## APPARATUS FOR STRIPPING AND REMOVING ARTIFICIAL CASINGS FROM SAUSAGES

James William Ball, Dallas, Tex., assignor of forty-five per cent to Willard R. Gunderson and ten per cent to A. P. Broiles, both of Dallas County, Tex.

Application January 17, 1950, Serial No. 139,022
19 Claims. (Cl. 17—1)



1. Apparatus for stripping the artificial casing from prepared sausage which comprises a main conveyor for the encased sausage, casing slitting means positioned relative to said conveyor to slit the artificial casing as it is conveyed past said slitting means, means operatively associated with said conveyor to move the same toward said slitting means, second conveying means operatively associated with said main conveyor for the slit casing and sausage, casing gripping means operatively associated with said second conveying means for frictionally engaging the slit casing, said second conveying means having an inclined path relative to said gripping means to provide a cross-sweep motion between said slit casing and gripping means to thereby strip said casing from said sausage, means operatively associated with said second conveying means to separate said stripped casing and sausage, and driving means to move said second conveying means and said gripping means toward said means to separate.

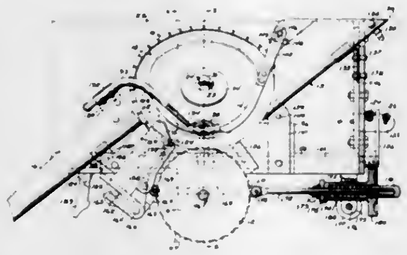
2,644,980

## SHRIMP DEVEINER AND SPLITTER

Alston R. McKinstry, Brunswick, Ga., assignor, by direct and mesne assignments, to Seafood Equipment Corporation, Glynn County, Ga., a corporation of Georgia

Application June 23, 1950, Serial No. 169,808
8 Claims. (Cl. 17—2)

1. A machine for deveining shrimp comprising a frame structure, angular mounting means on said frame structure for a pair of opposed discs with lower sections of the peripheries of said discs in near abutting relationship and the remaining sections of the peripheries of said discs being in progressively spaced relationship with each other, said discs having annular recesses on their opposed faces, a rotary cutter mounted on said frame structure beneath said discs and extending into the area between said discs at their lower sections of near abutment, means mounted on said frame structure for feeding shrimp to the recesses of said discs, means operatively associated with said discs and cutter for rotating the same, and means mounted on said frame for removing the shrimp from said



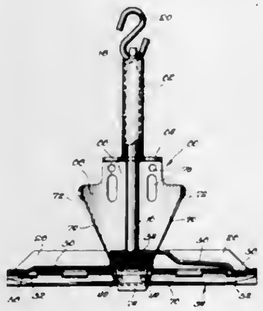
discs after the shrimp have passed over said rotary cutter.

2,644,981

## POULTRY SHACKLE

Edward Crane, Ottumwa, Iowa, assignor to Barker Poultry Equipment Co., Ottumwa, Iowa, a corporation of Iowa

Application October 12, 1948, Serial No. 54,009
7 Claims. (Cl. 17—44.1)



1. A shackle comprising a base, a leaf pivoted at one end thereof on said base, said base having a notch formed therein, said leaf having a notch therein, said leaf adapted to overlap the base with the notches therein in register to receive an object to be grasped therein, means for ejecting the grasped object from the shackle, said ejecting means including a reciprocable wedge engageable with said leaf for pivoting said leaf, and an upturned flange on said leaf adapted to engage the object grasped by the shackle to eject said object from the shackle.

2,644,982

## PROCESS FOR REMOVING THE CASINGS OF LINK SAUSAGES AND STRUCTURALLY LIKE PRODUCTS

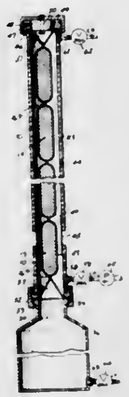
Robert A. Schneider, Bridgeport, Conn.

Application December 31, 1949, Serial No. 136,264
4 Claims. (Cl. 17—45)

1. The process for removing the casing from link sausage and structurally like products wherein the casing consists of a material capable of being rendered stretchable by wetting, which consists in externally applying wetting media to



said casing to render it stretchable, and admitting a fluid media under pressure within said



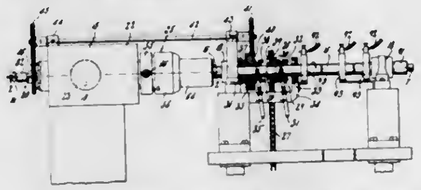
casing to expand it away from the encased structure.

2,644,983

## TUBE EXTRUSION

Nathaniel H. Curtiss, Clifton, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application June 29, 1950, Serial No. 171,217
15 Claims. (Cl. 18—14)



1. An apparatus for making hollow tubes comprising a sleeve, a long gravity deflectable core, means for firmly supporting said deflectable core centrally of said sleeve near one end thereof into which the core is adapted to project and form a relatively long annular passage between it and said sleeve of uniform cross sectional area from near its entrance end to near its discharge end, means for forcing plastic material around the core and through said sleeve from the direction of said core supporting means, means for suspending the deflectable portion of the core in said sleeve on the plastic therein and centrally of said sleeve, which includes means for rotating at least one of said annular passage forming members and thereby rotating the plastic therein.

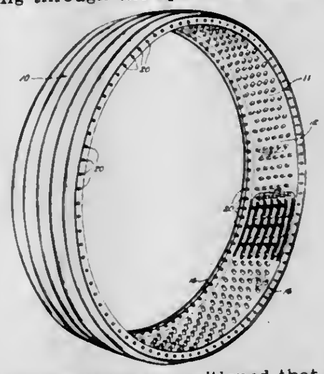
2,644,984

## APPARATUS FOR MANUFACTURING TIRE TREADS

David E. Crooker, Ontonagon, Mich., assignor of one-half to Lloyd L. Felker, Marshfield, Wis.

Application October 1, 1948, Serial No. 52,198
13 Claims. (Cl. 18—44)

1. In a tire mold, a matrix having a tire molding surface, a plurality of pegs formed on said surface and projecting inwardly therefrom, an annular flange projecting inwardly from said matrix adjacent each edge of said tire molding surface, said flanges being formed with a plurality of apertures, a plurality of rods removably extending through the apertures of said flanges,



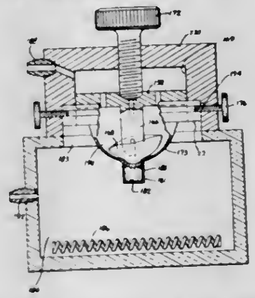
said apertures being so positioned that each rod engages the inner ends of a plurality of pegs.

2,644,985

## CONTACT LENS AND METHOD AND APPARATUS FOR MAKING SAME

Harry D. Crandon, Woodstock, Conn., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application March 22, 1947, Serial No. 736,507
20 Claims. (Cl. 18—55.05)



18. The method of forming a contact lens or the like from a cup-shaped blank of plastic material having internal strains therein capable of being relieved under the subjection of the blank to heat which strains cause said blank to shrink when so heated comprising the steps of protecting the central portion of said blank from the application of heat in such a manner that it will retain its initial shape and shrinking the surrounding portion of said blank to the shape of an inwardly positioned molding surface under the application of heat, and with said molding surface being of a shape controlled to reproduce substantially the scleral shape of the scleral portion of the individual's eye with which the finished lens is to be used.

2,644,986

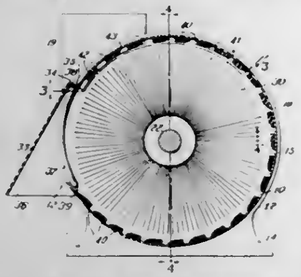
## SEED DELINTER

Louis A. Pazandak, Minneapolis, Minn., assignor, by mesne assignments, to The Buckeye Cotton Oil Company, Cincinnati, Ohio, a corporation of Ohio

Application September 3, 1948, Serial No. 47,694
19 Claims. (Cl. 19—44)

11. A cotton seed delinting machine comprising a cylindrical casing, a brush supported for rota-

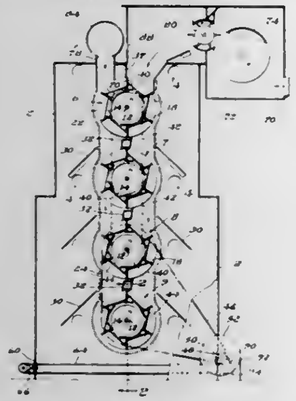
tion within and substantially on the axis of said casing, said brush having bristles of a length such as to provide an annular passage between the bristle tips and the casing, means for causing said brush to rotate at a high peripheral speed, said casing being at least partially lined with a rubbery, non-metallic, resilient friction exerting material having a compressibility and elasticity



sufficient to prevent seed breakage and to urge the seed repeatedly back into contact with the moving bristle tips and having a linty seed inlet at one end and a delinted seed outlet at the other end, and a non-clogging lint discharge opening in the cylindrical wall extending substantially the full length of said cylindrically disposed brush.

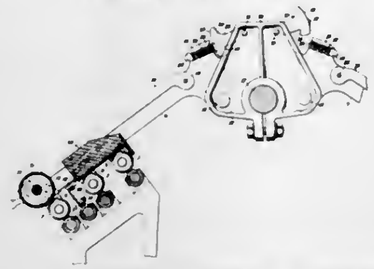
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**2,644,987**
**TRASH EJECTOR**
**Robert S. Curley, Biddeford, and Earl R. Richardson, Saco, Maine, assignors to Saco-Lowell Shops, Boston, Mass., a corporation of Maine**
**Application June 5, 1950, Serial No. 166,204**
**1 Claim. (Cl. 19—93)**



A machine for ejecting trash from a mass of cotton fiber comprising a rotatably mounted beater having a plurality of longitudinally extended blades and filling-in members extending between said blades forming an enclosed central body portion of generally prismatic form with said beater blades extending outwardly therefrom, forming channels between said blades, the depth of said channels toward the direction of rotation of said beater being greater than the depth of said channels away from the direction of rotation, a disk of a diameter substantially equal to that of the path of travel of said blades mounted on each end of said beater, and a grid closely adjacent the path of travel of said blades for a part of the circumferential distance around said beater.

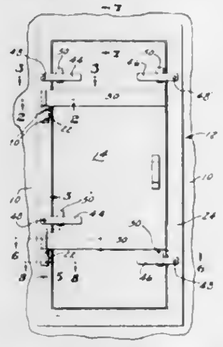
**2,644,988**
**MEANS FOR SUPPORTING AND LOADING THE TOP ROLLERS OF TEXTILE DRAFTING APPARATUS**
**James Jackson Haythornthwaite and James Calvert, Accrington, England, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England**
**Application October 19, 1950, Serial No. 190,914**
**In Great Britain November 16, 1949**
**10 Claims. (Cl. 19—135)**



1. A textile drafting apparatus comprising, in combination, a fixed support, and arm pivotally supported thereon, upper drafting rollers mounted in common at their arbors or journals in said arm, a rigid abutment pivoted on the fixed support at a point spaced from the roller supporting arm pivot, said arm being arranged in operative position to bear directly against said abutment at a point located above the plane containing the pivotal axis of the arm and the combined centre of mass of the arm together with the rollers and ancillary components carried by the arm, such that the pressure exerted between the abutment and the arm imparts a downwardly acting force to the upper drafting rollers.

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**2,644,989**
**DOOR MOUNTING**
**Ralph C. Parkes, Philadelphia, Pa.**
**Application January 24, 1952, Serial No. 268,067**
**1 Claim. (Cl. 20—16)**



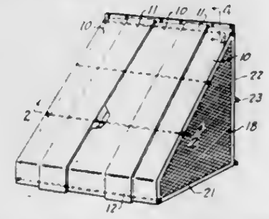
A frame including vertical stiles and upper and lower sills defining an opening, a door for closing said opening, vertically spaced bolts carried by, and slidable transversely of, one of said vertical stiles, hinge plates carried by the outer ends of said bolts, compression springs carried by said bolts and disposed between said hinge plates and the outer face of said vertical stile, means for limiting the movement of said bolts relative to said stile, arms carried by said door with their ends overlying said stile, means pivotally securing



the ends of said arms to said hinge plate hingedly to mount said door on said stile, a pair of horizontally spaced bolts carried by, and slidable transversely of, the opposite vertical stiles, a pair of handles rotatably secured at their ends to the outer ends of said horizontally spaced bolts, compression springs carried by said horizontally spaced bolts and disposed between the ends of said handles and the outer sides of said vertical stiles, and cams carried by adjacent portions of said door and adapted to be engaged to said handles.

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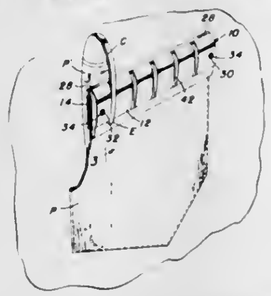
**2,644,990**
**SECTIONAL METALLIC AWNING**
**William I. Smith, Perrysburg, Ohio, assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio**
**Application March 13, 1951, Serial No. 215,276**
**1 Claim. (Cl. 20—57.5)**



An awning comprising a body having a plurality of parallel downwardly inclined sheet metal panels, downturned flanges on opposite longitudinal sides of said panels arranged so that flanges of adjacent panels are in abutment, the flanges of alternate panels being longer than the others, registering apertures in the flanges of the several panels spaced equi-distantly from the free edges thereof, a tie rod extending through said apertures for detachably connecting together the panels, upwardly inclined apertured upper end portions on the panels having shorter flanges, downwardly inclined end portions on the panels having longer flanges, and a header bar covering said upwardly inclined end portions and apertured to receive screws for fastening the awning in place.

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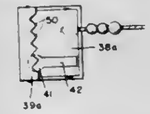
**2,644,991**
**CLIP RETAINING POCKET ATTACHMENT**
**Walter Albro, Jamestown, N. Y.**
**Application April 22, 1952, Serial No. 283,715**
**2 Claims. (Cl. 24—10)**



1. A clip retaining pocket attachment comprising front and rear hingedly connected clamping members, fastening means carried by the front member, said rear member having threaded apertures therein receivably engaging the fastening means to clampingly connect the members, said forward member having a front face with a plurality of spaced parallel vertical grooves therein adapted to accommodate the clips of writing implements, said front face also having a horizontal external shoulder portion at the lower ends of the grooves whereby the free ends of clips may be engaged over the shoulder portion and held against upward movement, and resilient means engaged with the fastening means and restricting disengagement of the fastening means with the front member when the fastening means is removed from the threaded apertures.

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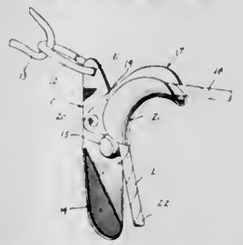
**2,644,992**
**BEAD CHAIN CLASP FOR JEWELRY**
**Matthew J. McFarland, Riverdale, N. Y.**
**Application May 6, 1949, Serial No. 91,823**
**2 Claims. (Cl. 24—116)**



1. A clasp for a multiplicity of strings of beads and the like chain jewelry including: a clasp half-portion constituted by a box-like base member having a side wall and an end wall, there being formed in said side wall a relatively enlarged aperture having in communication therewith a slot which extends into said end wall and is in communication with another slot formed in said end wall, the latter slot being provided with a plurality of serrations along one edge thereof; a cover member hingedly secured to said box-like member and having an end wall positioned for moving into proximity with the end wall of said box-like member and being provided also with a like plurality of serrations, the valley portions of the serrations in the cover member and in the base member being positioned for moving into string accommodating relationship wherein each valley portion of the serrations of said cover member is closely adjacent and opposite to a corresponding valley portion in said base member when said clasp half portion is closed.

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**2,644,993**
**LINE HOLDER**
**Humbert R. Rogant, Willoughby, Ohio**
**Application May 4, 1950, Serial No. 159,972**
**1 Claim. (Cl. 24—134)**

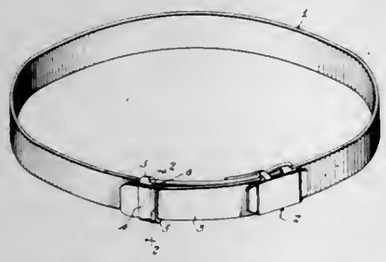


A releasable line holding device comprising a substantially flat depending plate member having means at its upper end for attaching the same to a fixed support, an abutment including an enlarged head fixedly secured to and projecting outwardly from an intermediate surface portion of said plate member adjacent one edge

thereof, and a clamping arm pivotally mounted adjacent the opposite edge of said plate member above said abutment in offset spaced relation thereto to extend said arm over said abutment, said arm being of longitudinally and transversely curved configuration to provide an arcuate groove for smoothly receiving therein a curved angular portion of the line to be held, the end of said groove adjacent said pivotal connection being engageable by gravity against the side surface of said abutment head remote from said pivotal connection to normally dispose said clamping arm in substantial horizontal projecting relation to said depending plate member, whereby the weight of a flexible line insertable laterally into said arcuate groove rocks said arm downwardly relative to said plate member to firmly clamp said line between said groove end and said abutment head surface.

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**2,644,994**
**BELT GUIDE**
**Joseph E. Smith, Tampa, Fla.**
**Application November 27, 1951, Serial No. 258,367**
**1 Claim. (Cl. 24—182)**

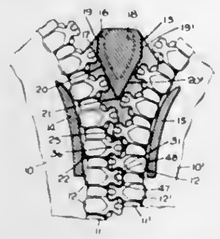


A belt guide formed from an elongated blank having two parallel side edges, each of the two ends of said blank being provided with a longitudinal slit dividing the end into two spaced portions, said spaced portions having their end edges at different distances from the transverse axis of the blank, whereby two lips of different length are formed at each end of the blank, said blank being bent at equal longitudinal distances from the transverse axis thereof to form a vertical body portion and two parallel upper and lower portions, the shorter lip at each end being bent at right angles from one of the said upper and lower portions at the line which passes through the closed end of the end slit transversely of the blank, to lie parallel with said body portion, and the longer lip being bent at right angles at a line which passes transversely of the said longer lip and is spaced outwardly of said line which passes transversely through the closed end of the end slit, to form an end portion parallel to and spaced from said shorter lip and from said body portion.

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**2,644,995**
**BLUNT NOSE DOUBLE-ACTING SCOOP FOR SEPARABLE FASTENERS**
**Louis H. Morin, Bronx, N. Y.**
**Application October 21, 1949, Serial No. 122,610**
**4 Claims. (Cl. 24—205.13)**

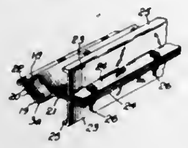
1. In separable fastener stringers employing scoops spaced longitudinally of the beaded edge of a stringer tape, each scoop comprising mounting and coupling end portions, the mounting end portion being slightly greater in length than the width of the beaded edge of the tape, the coupling end portion of the scoop comprising a blunt nose head joining the mounting end portion in a reduced neck, the neck forming recesses on opposed surfaces of the scoop for reception of the heads of scoops of a companion stringer, key elements arranged in the recessed portions of the scoops centrally with respect to scoop sides and projecting beyond upper and lower surfaces of the mounting end portion, the head of the scoop



having an elongated recess in the outer surface thereof opening through said first named surfaces and adapted to receive the key elements of the scoops of a companion stringer, said key elements having concaved recesses for reception of the stringer bead to dispose the stringer bead in close proximity to the outer surface of the heads of scoops of a companion stringer, and the extension of the heads from the outer surface of the beaded edge being materially less than the length of said mounting end portions.

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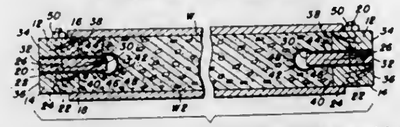
**2,644,996**
**WALING MEMBER FOR SECTIONALIZED STRUCTURE PROVIDING A COMMON RECTILINEAR SURFACE**
**Roy William Rumble, Pretoria, Transvaal, Union of South Africa**
**Application May 5, 1949, Serial No. 91,566**
**In the Union of South Africa May 11, 1948**
**4 Claims. (Cl. 25—131)**



1. A waling member of the kind specified for longitudinal disposition in a joint between confronting edges of adjacent panel members; said waling member comprising two superposed parts formed with aligned portions defining a longitudinal tubular body, said portion of each part providing substantially one-half of the cross-section of said tubular body, each of said parts further being formed with a flange extending along an edge of said portion and having a width sufficient to project beyond a joint between adjacent panel members, said superposed parts being arranged with said flanges thereof in overlapped relationship, hooked anchoring means extending from at least one of said flanges for anchoring the waling member to at least one panel member adjacent thereto, and means detachably securing said flanges to each other and to said hooked anchoring means at locations adjacent the edges of the flanges for disposition beyond the joint between adjacent panel members.



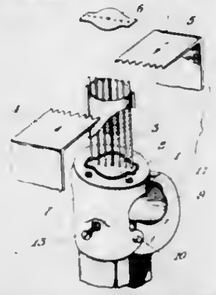
**2,644,997**
**WALL FORM**
**Frank Billings, Montezuma, Ind.**
**Application April 16, 1952, Serial No. 282,587**
**2 Claims. (Cl. 25—131)**



1. A form for concrete wall members, said form comprising an elongated open-ended hollow member having spaced side walls and removable end pieces, each of said end pieces being composed of two strips having inner edges received between said side walls, a rib element clamped between each pair of strips, said rib elements projecting inwardly beyond the inner edges of the strips, and a resilient channel about the inner edges of the rib elements and having their flanges clamped between the rib elements and the strips.

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**2,644,998**
**METHOD OF MOUNTING THE ELECTRODE SYSTEM FOR ELECTRIC DISCHARGE TUBES**
**Leonard Klinkert, Gerard Charles Antonie Marie Moubis, and Johan Lodewijk Hendrik Jonker, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**
**Application July 24, 1947, Serial No. 763,190**
**In the Netherlands August 7, 1946**
**2 Claims. (Cl. 29—25.14)**

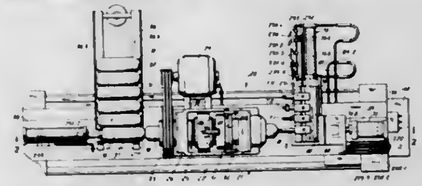


1. A method of assembling an electrode system for an electric discharge tube in two centering members having apertures for receiving the ends of said electrodes, comprising the steps of placing one end of each electrode in the apertures of one of said centering members, clamping and cutting into each of the assembled ends of the electrodes to rigidly hold them against displacement in vertical and horizontal directions, aligning the other ends of said electrodes in position for entering the apertures of said other centering member, temporarily clamping said other electrode ends to hold them rigidly in said aligned position, and sliding said second centering member over said aligned other ends.

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**2,644,999**
**CONTROL APPARATUS**
**Robert H. Hill, Elgin, Ill., assignor to himself and Harold Hoffman, Elgin, Ill., jointly**
**Application January 6, 1947, Serial No. 720,329**
**1 Claim. (Cl. 29—42)**

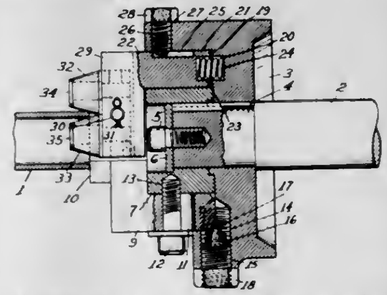
In an actuating and control apparatus for an automatic machine which has a plurality of independently operable mechanisms each operable through one or more working movements, independent power means for actuating each of the operative mechanisms of such a machine through the desired working movements thereof, independent sensing means sensing the completion of such working movements, a stepping switch having a plurality of control positions in which said switch may be successively set and embodying a power control section and a sensing control section each of which has control contacts in each of said control positions, said control positions being allocated in succession to said working movements in the order in which they are to occur in a machine cycle, and the control contact in the power control section at each position having a power circuit extended therefrom and operatively associated with the related power



means to cause operation thereof through the working movements to which such position is allocated and the control contact in the sensing control section of each position being operatively associated with the related sensing means to condition the same for sensing the completion of the working movement to which the position is allocated, operating means for imparting stepping movements to said stepping switch, a stepping relay having normally closed contacts included in series with each such power circuit and having normally open contacts affording a circuit for causing operation of said operating means, and an energizing circuit for said stepping relay arranged for closure under control of the effective one of said sensing means to thereby break the effective power circuit and cause advancing of said stepping switch from one position to another.

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**2,645,000**
**TOOL FOR FINISHING TUBE ENDS**
**Harry J. Finch, Oil City, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application January 6, 1950, Serial No. 137,047**
**9 Claims. (Cl. 29—57)**

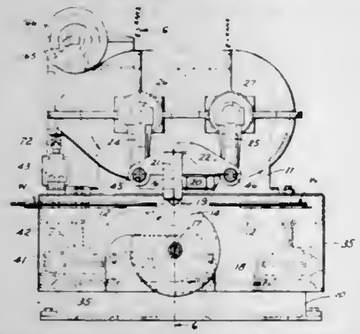


1. Apparatus for rotary finishing of tube ends comprising a head, a facing tool extending from said head and positioned to engage an end face of a tube, means for adjusting the extension of said facing tool from said head, a pair of beveling

rolls extending from said head and positioned to straddle a tube wall, and autoadjustable means for varying the extension of work-engaging areas of said beveling rolls from said head so as to maintain contact between said beveling rolls and a tube end, said apparatus being adjusted and adapted to face off and bevel a tube end simultaneously.

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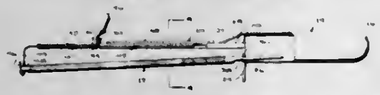
**2,645,001**
**FLYING HOT SAW**
**William Rodder, Youngstown, Ohio, assignor to The Aetna-Standard Engineering Company, Youngstown, Ohio, a corporation of Ohio**
**Application January 6, 1949, Serial No. 69,521**
**26 Claims. (Cl. 29—69)**



1. Apparatus for severing successive longitudinal sections from continuously moving elongated work such as pipe, tube, rod and the like, comprising a cutting tool, a rotary support for said cutting tool comprising a crank and means for rotating said crank to cause said tool to travel in a circular path, means for guiding the work in a normal path displaced radially from the center of rotation of said crank and near but not intersecting the path of said tool, means driven in synchronism with said crank for periodically deflecting the work from its said normal path into the path of the tool, means for varying the radius of said crank and means for simultaneously varying the distance between the center of rotation of said crank and said guide means and deflecting means to maintain the relationship between the path of the work and the path of the tool substantially constant regardless of changes in the radius of said crank.

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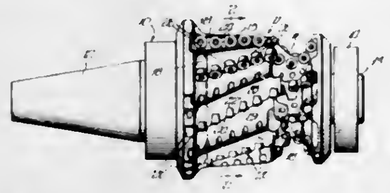
**2,645,002**
**FILE HOLDER**
**Catherine B. Dailey, Bremerton, and Henry Harrison, Gorst, Wash.**
**Application June 27, 1952, Serial No. 296,058**
**2 Claims. (Cl. 29—88)**



1. In a file holder of the hand held type, a handle proportioned to be grasped by one hand of a user; and a body of telescopic formation secured thereto and including a main body portion rigid at one end with the handle, a guard rigid with and depending from said one end of the main portion and having a plurality of openings spaced different distances from the main portion for insertion of the tang provided at one end of a file in a selected one of the openings, an extension body portion telescopically engaged in the other end of the main portion, said main portion having intermediate its ends a threaded aperture opening upon the surface of the extension portion, a hand knob adapted for receiving the other hand of a user and having a threaded shank engaged in said aperture for clamping the respective body portions against movement from selected positions of relative telescopic adjustment thereof, and a tongue depending from the other end of the extension portion and having an opening adapted for engaging the other end of said file, said openings of the guard cooperating with the opening of the tongue for supporting the file at selected angles relative to said body portions.

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**2,645,003**
**CUTTING TOOL**
**Alfred L. Thompson, Munster, Ind., Karl T. Nystrom, Chicago, Ill., Jesse H. McQuiddy, St. Louis, Mo., and Richard B. Stanley, Park Ridge, Ill.; said Thompson, said Nystrom, and said McQuiddy assignors to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware; said Stanley assignor, by mesne assignments, to World-O-Matic Company, Chicago, Ill., a partnership**
**Application February 9, 1950, Serial No. 143,254**
**22 Claims. (Cl. 29—105)**



1. A cutter comprising a body of substantially circular cross section having a plurality of spaced ribs disposed generally longitudinally of the body, a plurality of cylindrical cutter buttons mounted along each rib each button being positioned with its longitudinal axis disposed substantially normal to a radius of the body, each button having an end face providing a plurality of cutting edges disposed about the periphery of the end face, the buttons along each rib being staggered with respect to the buttons on the next adjacent rib, each button projecting beyond the outer face of the rib and being rotatably indexable about its longitudinal axis to bring successive cutting edges into cutting position.

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**2,645,004**
**METHOD OF AND APPARATUS FOR ASSEMBLING FLEXIBLE TUBING UPON MANDRELS**
**John A. Dorner, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application January 27, 1948, Serial No. 4,493**
**5 Claims. (Cl. 29—148)**

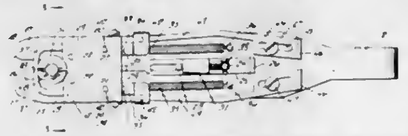


2. The method of assembling flexible tubing upon a mandrel, which method comprises the steps of providing flow of air through the bore of an elongate tubular member having a laterally disposed annular sealing face in said bore at an end of said member by supplying air under pressure at a point within the confines of said seating face, introducing the major portion of the length of a piece of flexible tubing of extensible material end first into the interior of said bore to a position against said seating face in sealing relation therewith with the wall of the tubing extending away from said seating face axially along and closely adjacent the internal wall of said member in said bore thereof so as to be restrained by said internal wall against rupture and with a portion of the flexible tubing projecting axially beyond the other end of said member while flow of air is confined internally of the tubing, manually holding the projecting portion of said piece of flexible tubing to retain said major portion thereof in said bore and manually pressing the tubing endwise against said seating face to confine the flow of air internally of the tubing and to prevent axial movement of the tubing in the direction of said flow of air and away from said seating face while the air is flowing through the interior of the tubing, manually inserting a mandrel into said piece of flexible tubing at said projecting portion thereof and through said projecting portion and said major portion of the tubing to a position against said seating face while the tubing is thus restrained against rupture and thus held in said position and pressed against said seating face and while the air is flowing through the interior of the tubing, and manually releasing the assembled tubing and mandrel and thereby effecting ejection of the tubing and mandrel assembly from said bore by the flow of air.



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**2,645,005**
**SPLIT VALVE SPRING KEEPER INSERTER**
**John Vold, Wiggins, Colo.**
**Application October 11, 1949, Serial No. 120,695**
**2 Claims. (Cl. 29—249)**



1. A split valve key-inserting tool comprising a flat body member having an offset flat end, said end being formed with an axially extending notch defining a pair of parallel positioning fingers engageable transversely on the outer surfaces of a valve stem, a pair of block members mounted in spaced side by side relation on said end at the inner end of the notch and spaced symmetrically from the axis of said notch, said block members having complementary faces forming an obtuse angle therebetween, a blade member slidably disposed on the end between the block members for axial movement to a forward position overlying said notch and between the fingers, an actuating member slidably mounted for axial movement on the body member and connected to the blade member, spring means operatively connected to the actuating member for urging said blade member to said forward position on the end, a pair of complementary hook members slidably and pivotally secured to said end symmetrically around said block members, said hook members being mounted for individual rectilinear movement on the fingers and outward curvilinear movement therefrom, inwardly directed lugs formed on the forward ends of said hook members, spring means carried by the outer edges of the end of the body member and engageable with said hook members for urging said lugs together to a position over said notch and substantially aligned with the blade, a pair of link bars slidably and pivotally mounted on the body member for axial and curvilinear movement and pivotally connected to the hook member, and spring means connected between the body member and each of the hook members for urging the lugs inwardly of said notch.

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**2,645,006**
**METHOD AND MEANS FOR APPLYING BRITTLE BRAZING MATERIAL**
**Orval P. Hadley, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware**
**Application June 29, 1948, Serial No. 35,749**
**5 Claims. (Cl. 29—374)**

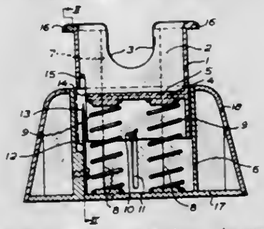


1. The method of bonding the joint between metal parts which comprises applying beads of a brittle brazing material in spaced relation on the periphery of a flexible strip of a suitable non-contaminating material, wrapping the beaded strip around one of the parts adjacent the joint, and heating the assembly to a temperature at which the beads of brazing material fuse and flow into the joint.

3. An article of manufacture comprising a flexible wire with beads of a brittle powdered brazing material compacted on the wire at spaced points along its periphery, said wire being composed of a suitable material which will not contaminate the brazing material.

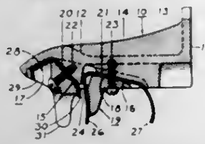
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**2,645,007**
**APPARATUS FOR OPENING CIGARETTE PACKETS**
**Karl G. E. Alfredsson, Stockholm, and Stig G. Hanell, Bromma, Sweden**
**Application June 6, 1950, Serial No. 166,508**
**In Sweden February 28, 1950**
**7 Claims. (Cl. 30—2)**



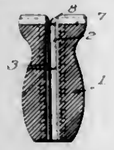
1. An apparatus for opening cigarette packets comprising a holder to receive said cigarette packet to be opened, a cutting tool adapted to penetrate into said packet adjacent one short end thereof, when said holder and said tool are moved relatively to each other, and a frame carrying said holder and said cutting tool, said holder comprising a box-like open casing having a bottom parallel to the cigarettes in the packet to be opened and substantially perpendicular to the plane of said cutting tool, said bottom being provided with an internal central bulge extending longitudinally to said packet and the cigarettes therein.

**2,645,008**
**COMBINATION BOTTLE OPENER AND CAN OPENER**
**Clarence W. Brewer, Decatur, Ill.**
**Application July 13, 1950, Serial No. 173,592**
**3 Claims. (Cl. 30—6.1)**



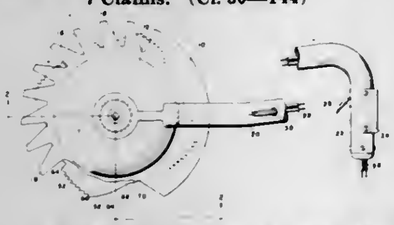
1. A can opener substantially as herein described, comprising a bracket having a base for attachment to a wall or the like, said bracket having a body formed with the base, the under part of said body being proportioned and shaped at intervals longitudinally from the free end thereof with fore and aft rearwardly slanting supporting surfaces and can punching means clamped to each of said surfaces, one of said punching means including a hooked end engageable under the outer bead at the top of a can to be opened to serve as a fulcrum point from which the can may be radially moved into progressive engagement with each of the can punching means.

**2,645,009**
**RAZOR HANDLE**
**Hymen K. Cohen, Baltimore, Md.**
**Application June 9, 1951, Serial No. 231,190**
**4 Claims. (Cl. 30—90)**



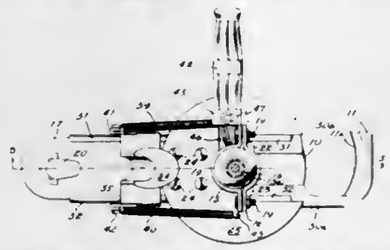
2. An auxiliary handle for use on handles of safety razors comprising a body of resilient material having a ribbed aperture for receiving the handle of the razor, and said auxiliary handle having transverse grooves on its upper surface for engagement with protuberances on the guard of the razor.

**2,645,010**
**HEDGE TRIMMER**
**Joseph E. Holmes, Huntington Park, Calif., assignor of one-half to Ester Holmes, Huntington Park, Calif.**
**Substituted for abandoned application Serial No. 653,529, March 11, 1946. This application September 2, 1952, Serial No. 307,494**
**7 Claims. (Cl. 30—144)**



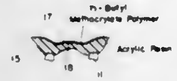
1. In a hedge trimmer of the class described, the combination of a stationary cutter blade having a plurality of converging notched teeth about its periphery, a revolving cutter having a plurality of individual teeth revolubly mounted relatively to said stationary cutter and contiguous therewith whereby the teeth of said revolving cutter pass adjacent the teeth of said stationary cutter, the shearing edge of the teeth of said stationary cutter being substantially in radial alignment with the axis thereof, the leading edge of the teeth of said revolving cutter being substantially in radial alignment with the axis thereof, and having saw teeth at the extremities thereof, the roots of which are outwardly of the roots of said individual teeth.

**2,645,011**
**DEHORNING DEVICE**
**Allan L. Otis, White Bird, Idaho**
**Application April 28, 1952, Serial No. 284,841**
**5 Claims. (Cl. 30—167)**



1. A dehorning device comprising a circular saw, a shaft carrying the saw, a bearing mounting the shaft, a clamp for said bearing, a guard carried by the clamp and overlying the major portion of the saw, a guide plate attached to the clamp and extending away from the clamp in a direction parallel to the saw, a hand grip on said plate spaced from the clamp, a horn hook spaced from the saw in a direction opposite to the direction in which the guide plate extends, supporting means for the horn hook slidably mounted on the guide plate, a second hand grip mounted on said supporting means between the clamp and the hand grip on the guide plate, and spring means urging the second hand grip toward the clamp.

**2,645,012**
**CUSHION LINING FOR DENTURES**
**Stanford J. Hetzel, Cheltenham, Pa.**
**Application November 28, 1950, Serial No. 197,890**
**11 Claims. (Cl. 32—2)**

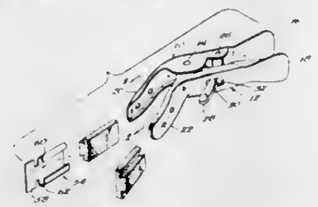



1. A denture assembly comprising: a relatively hard acrylic resin denture base and a relatively soft cushion lining comprising n-butyl methacrylate polymer, said base and said lining being fused together at their surface of contact.

**2,645,013**
**DENTAL CLAMP**
**Wegor E. Mathison, Glen Ellyn, Ill.**
**Application April 23, 1949, Serial No. 89,191**
**3 Claims. (Cl. 32—63)**

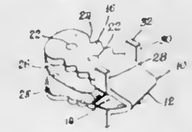
1. A dental clamp comprising a pair of pincers having a pair of jaws and a pair of handles, a thermoplastic liner disposed on the inwardly directed face of at least one of said jaws, a spring urging the jaws into closed relationship, a pawl pivotally mounted on the inner side of one handle and extending through an opening in the other handle, and a shoulder on said pawl engageable with the wall of the opening, the





pivotal mounting of the pawl being more distant from the pivot of the pincer than is the shoulder engaging wall of the opening in the second handle, whereby full closure of the handles will cam the shoulder of the pawl out of engagement with the wall of the opening.

**2,645,014**
**HINGELESS DENTAL CLAMP**
**Wegor E. Mathison, Glen Ellyn, Ill.**
**Application August 8, 1952, Serial No. 303,256**
**7 Claims. (Cl. 32—63)**



1. A dental clamp comprising an integral elongated member of manually bendable, inelastic material, and a pad of moldable material composed principally of gutta-percha disposed on the same side of each end of said member.

**2,645,015**
**DEVICE FOR TAKING INSEAM MEASUREMENT OF TROUSERS**
**Orville W. Zielaskowski, Corvallis, Oreg.**
**Application February 18, 1952, Serial No. 272,087**
**3 Claims. (Cl. 33—8)**



3. An inseam measuring device having in combination a floor engaging shoe, an upright rod rigidly attached to said shoe, a tube slidably mounted on said rod, a cuff suspended from said tube, a calibrated rod slidably mounted in said tube, said calibrated rod having a crotch engaging head at its upper end, and means for fixing the relation between said cuff and shoe and between said cuff and crotch of the customer.

**2,645,016**
**REDUCING AND ENLARGING MACHINE FOR DRAFTSMAN AND DESIGNERS**
**Carl H. Wrobel, Detroit, Mich.**
**Application February 6, 1952, Serial No. 270,150**
**3 Claims. (Cl. 33—23)**



1. A light-weight portable scaling instrument for draftsmen and designers comprising a pair of parallel rack bars having teeth on their upper surfaces, an upright body of rectangular shape having in its top upwardly open longitudinal channels in which said rack bars are slidable, a pair of opposed bearing ears projecting upwardly from the front and rear sides of said body, a shaft journaled in said ears and having fixed thereto a pair of gears of different ratios for engagement with the teeth of the respective rack bars to slidably retain the latter in their channels, an arm projecting forwardly from said body and having a hole to receive a pivot pin insertable in a paper covered drawing board to pivotally mount the body with said rack bars extending beyond one end of the latter, means spaced horizontally from said one end of the body to support said extended ends of the rack bars, said means including an upright block provided with a flat base to slide on the paper on the drawing board and with a guideway in its upper portion through which one of said rack bars extends and is slidable, means removably fastening the other of said rack bars to said block, a horizontal flange projecting forwardly from the lower portion of said block and having a notch to receive a pencil point, and a member carried by the end of said rack bar which extends beyond said block and provided with a pointer, said hole, notch and pointer being longitudinally alined.

**2,645,017**
**GUN SIGHT**
**Kurt O. Haase, Lafayette, Calif., assignor of fifty-five one-hundredths to Laurence Bono, Oakland, Calif.**
**Application February 21, 1949, Serial No. 89,177**
**2 Claims. (Cl. 33—47)**



2. A detachable sight for the barrel of firearms comprising a fixed sight support adapted to be rigidly secured to said barrel and including a longitudinally extending slotted portion of dove-tail cross-section and a vertical bore, a sighting element including a longitudinally extending tongue of dove-tail cross-section cooperating with said slotted portion, means limiting longitudinal movement of said tongue in said support, a spring-pressed pin disposed in said bore and adapted to engage and end portion of

said tongue for detachably retaining said sighting element and support in assembled relation, and means traversing said bore limiting upward movement of said pin in said bore.

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**2,645,018**
**MASON'S LEVEL**
**Jacob W. Waddell, Waverly, Ohio**
**Application August 30, 1951, Serial No. 244,353**
**3 Claims. (Cl. 33—85)**



1. In a mason's level, an elongated body provided with at least one straight longitudinal edge and at least one flat side, said flat side being in a plane at a right angle to the plane of said edge, said body having a shallow recess near one end and opening through said flat side, said recess being elongated longitudinally of said body, said body also having a transverse opening extending from the outer end portion of said recess toward the opposite side of the body, a plate secured in said outer end portion of said recess and disposed in a plane parallel with and spaced inwardly from said flat side, said plate having a relatively small opening communicating with said transverse opening of said body, a finger normally disposed within said recess and having an inwardly offset inner end portion adjacent the outer side of said plate, the terminal of said offset end portion having a rocker projecting inwardly against said outer side of said plate, a pivot pin loosely connected with said offset end portion of said finger, said pivot pin extending slidably through said relatively small opening of said plate into said transverse opening of said body, and spring means in said transverse opening, said spring means being connected with said pivot pin and exerting a longitudinal stress upon said pin, to normally tilt said finger inwardly about said rocker to a confined position within said recess, said finger being manually tiltable outwardly against the action of said spring means and being then swingable about said pivot pin to a position in which said finger projects beyond said body.

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**2,645,019**
**COMBINATION LINEAR SCALE**
**David E. Jones, Columbus, Ohio**
**Application February 24, 1950, Serial No. 146,108**
**20 Claims. (Cl. 33—107)**

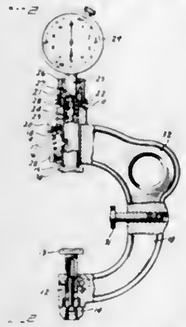
1. A combination linear scale comprising two scale members, each having a flat outer surface, a plurality of flat inner surfaces substantially parallel thereto, and a plurality of ridged risers substantially in the shape of triangular prisms whose triangular faces are perpendicular to said flat surfaces and whose inclined faces are perpendicular to said triangular faces and at an acute angle to said flat surfaces, the opposite edges of said inclined faces lying in the line of the respective longitudinal edges of said flat inner surfaces, all of said edges lying parallel to the longitudinal edges of said flat outer surface, said ridged risers spaced apart along the length of



said scale members such that the risers of each scale member register between the risers of the other scale member; a longitudinal opening in the risers of each scale member midway between the longitudinal edges thereof; at least one pivot pin pivotably connecting said scale members through said opening; and linear measuring scales marked on the inner and outer longitudinal edges of each scale member.

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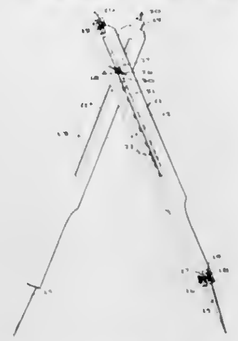
**2,645,020**
**ACCURATELY REPEATING DIAL TYPE COMPARATOR**
**Shubel A. Foster, Birmingham, Mich.**
**Application January 7, 1950, Serial No. 137,429**
**6 Claims. (Cl. 33—147)**



2. An accurately repeating micrometer comprising a double ended yoke, a block having a chamber disposed on one end of said yoke, a second block disposed on the other end of said yoke opposite to said block, a stationary anvil adjustably disposed in said second block, a traveling plunger disposed in the chamber of said block adapted to travel toward and away from said stationary anvil, a spring seated within the chamber of said block compressed against the end of said plunger permitting said plunger to travel against its compression and capable of returning said plunger, a hemispherical inner end on said plunger, a gauge stem housing disposed within the chamber of said block axially aligned with said plunger, a fitting securing said gauge stem housing to said block, a spring-pressed gauge stem within said housing, a flat 5 degree beveled end on said gauge stem contacting said hemispherical end on said plunger for accurately transmitting plunger movement to said gauge stem, and a gauge on said gauge stem visually indicating movement of said gauge stem.



**2,645,021**
**PROPORTIONING DIVIDER**
**Mary T. Dierkes, Long Beach, Calif.**
**Application January 4, 1952, Serial No. 264,969**
**3 Claims. (Cl. 33—150)**



1. A divider comprising two bar members having points at their opposite ends, said bar members being formed with longitudinal slots and with a plurality of pairs of opposing recesses spaced along said slots, a headed bolt passing through said slots and pivotally connecting said bar members, the head of the bolt being selectively receivable in the recesses of one bar member, and a nut threadedly engaged on said bolt and being selectively receivable in the recesses of the other bar member.

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**2,645,022**
**TRAMMEL AND BEAM INSTRUMENT**
**James M. Hart, Philadelphia, Pa.**
**Application August 3, 1948, Serial No. 42,185**
**3 Claims. (Cl. 33—159)**

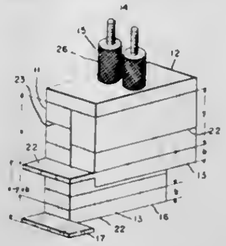


1. For use with a graduated compass beam, a trammel comprising a head and a support for a point extending therefrom, the head being pierced by a first aperture normal to the axis of the support in a manner to slidingly engage a beam and by a second aperture disposed normal to the first and extending entirely through said head to expose portions of two surfaces of the beam, said second aperture being defined in part by reading edges lying in a plane transverse the beam and including the axis of the support, said edges being positioned to register with graduations on the exposed portion of the beam.

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**2,645,023**
**CALIPER USING DIFFERENTIAL SERIES OF GAUGE BLOCKS**
**Nikola Trbojevich, Detroit, Mich.**
**Application November 1, 1947, Serial No. 783,482**
**8 Claims. (Cl. 33—168)**

1. A measuring device comprising a top plate, two L-shaped projecting members, a set of gauge blocks not exceeding twelve pieces and means for fastening two preselected block stacks side by side upon the said plate and members, in which the thicknesses of the said blocks form two series of the $b$ and $b+k$ type, in which $b$ in the first series and $k$ in the second series form respective geometrical progressions, in which the thickness of the L members is exactly equal to $b$ and the short



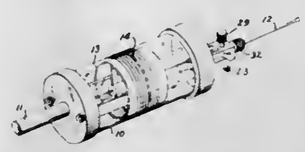
legs of the said members protrude one above the other whereby both inside and outside measurements may be taken by the same device.

4. A device as described in claim 1 in which the sum of the $b$ series corresponds to the range of the instrument and the sum of the $k$ members in the $b+k$ series is greater than

$$\frac{b.}{2}$$

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**2,645,024**
**AXIAL INDICATOR**
**Frank Pool, Jr., Palo Alto, Calif.**
**Application February 12, 1951, Serial No. 210,495**
**2 Claims. (Cl. 33—172)**



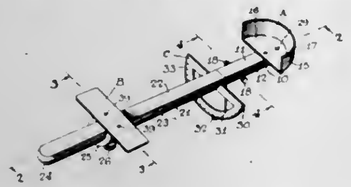
2. A machine indicator comprising a transparent cylindrical body member, a cylindrical dial disposed within the body member, a guide disposed axially of the body member, axial bearings on the dial slidable on the guide to support the dial for sliding movement free of contact with the body member, an angularly movable sensing finger projecting from one end of the body member for contact with a work surface, means connecting the sensing finger with the dial to impart axial movement to the dial upon angular movement of the sensing finger, said connecting means comprising multiplying linkage disposed within the body member and reference lines on the dial and body member to indicate visibly the movement of the dial.

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**2,645,025**
**SUPRONIMETER AND FOOT BALANCING APPLIANCE**
**Harry W. Weinerman, Brooklyn, N. Y.**
**Application July 11, 1946, Serial No. 682,818**
**11 Claims. (Cl. 33—174)**

1. A device for measuring pronation and supination comprising a heel receptor, a transverse contact bridge to extend between the heads of the first and fifth metatarsal bones, a rotary connection between said bridge and measuring means to record the amount of pronation and

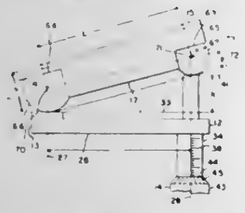
supination, said rotary connection including two flat top circular rods, one connected to the heel receptor and the other connected to the contact bridge, said rods being connected together to



form a longitudinal extension of each other and said connection being formed by providing a projection on the end of one rod and a recess in the end of the other rod in which said projection turns and rotates.

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**2,645,026**
**ANGLE MEASURING BAR AND MICROMETER**
**Nikola Trbojevich, Detroit, Mich.**
**Application April 7, 1947, Serial No. 739,740**
**6 Claims. (Cl. 33—174)**



1. A rectifying bar comprising a measuring plane and two cylinders having parallel axes at the ends of the said plane, in which the angle included by the said first plane and the plane of the said axes is acute corresponding to a predetermined range to which the said bar may be tilted with respect to a relatively fixed base plane and in which the mathematical relationship is such that the said angle is a mathematical function of the said range angle and approximately equals one third of the said range.

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**2,645,027**
**WELL CALIPER**
**Harlan J. Eastman and John G. Jackson, Denver, Colo., assignors to Eastman Oil Well Survey Company, Denver, Colo., a corporation of Delaware**
**Application June 9, 1947, Serial No. 753,512**
**9 Claims. (Cl. 33—178)**

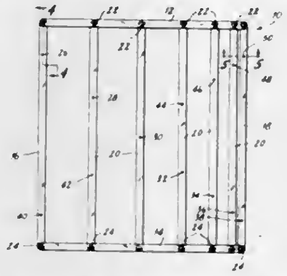
1. The combination with a well survey instrument having a magnetic indicator therein and also having therein means for photographically recording the indication of said indicator, of a well caliper unit attached to the survey instrument for combined placing in a well bore and including, a support adapted to be connected in position below the instrument, a plurality of movable measuring elements mounted on the support and adapted to yieldingly engage the wall of the well bore whereby said elements assume positions in accordance with the well bore diameter, a movable magnetic member within the upper end of the support and in sufficiently close proximity to the indicator within the instrument to effec. movement thereof through its magnetic influence, and means for imparting movement to the magnetic member in accordance with the movement of the measuring elements, whereby



said member and the indicator actuated thereby assume positions representative of the well bore diameter as measured by the measuring elements.

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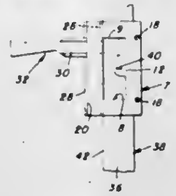
**2,645,028**
**SHEET METAL LAYOUT INSTRUMENT**
**William Altnether, St. Louis, Mo.**
**Application April 11, 1952, Serial No. 281,768**
**1 Claim. (Cl. 33—192)**



An instrument for automatically determining the proper spacing of points to be marked on a line representing the diameter of a circle for laying out an elbow in sheet metal drafting, including in combination: and upper and a lower end bar in spaced parallel relation; a left end divider bar, a right end divider bar, and a plurality of intermediate divider bars, each of said bars having a pivotal connection at one end with said upper and at the opposite end with said lower end bar, and all of said divider bars being parallel and so disposed that the distances obtaining between adjacent ones are of successively decreasing extent from the left to the right end divider bar, the distances between adjacent bars being directly proportional to the projections of equal divisions of a quadrant on a diameter thereof; and at least one diagonal row of holes provided in said divider bars for marking points with a stylus and the like along the line aforesaid, one hole of said row being formed in each divider bar with the distances between adjacent pairs of holes from the left to the right end divider bar being of successively decreasing extent in accordance with sheet metal drafting principles.



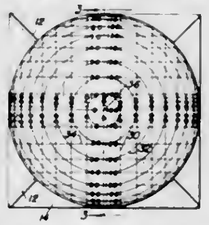
**2,645,029**
**MORTISE CHISELING TEMPLET**
**Wallace D. Smith, Melbourne, Fla.**
**Application April 30, 1952, Serial No. 285,167**
**4 Claims. (Cl. 33—197)**



1. A marking templet to assist one in chiseling and gouging out a hinge butt seating mortise comprising a frame defining a chisel confining mortise outlining opening, said frame being rectangular and flat throughout its area and said opening being essentially rectangular, said frame having marginally arranged holes to accommodate frame anchoring fasteners and also having an integral apertured attaching ear coplanar with the frame and projecting into said outlining opening, and shoulder means integral with said frame, said means being at right angles to an adjacent face of said frame and being flush with one cooperating longitudinal edge of said outlining opening.

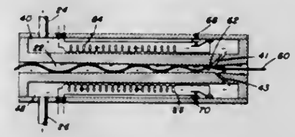
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**2,645,030**
**INCLINOMETER**
**Thomas L. Mahone, Hampton, Va.**
**Application November 8, 1951, Serial No. 255,477**
**1 Claim. (Cl. 33—206)**



An inclination indicator for airplanes and the like comprising an outer transparent sphere having graduations on its exterior surface, an inner sphere fixed within and held stationary with respect to the outer sphere, a leveling liquid within the outer sphere about the inner sphere, said liquid and said inner sphere occupying all but a small part of the interior of said outer sphere in order to form an air bubble for registering with the graduations on said outer sphere, said outer sphere being provided with a first series of circles lying on horizontally spaced vertically disposed planes, a second series of circles also provided on said outer sphere and lying on vertically spaced horizontal planes, and a third series of circles also provided on said outer sphere and lying on horizontally spaced vertical planes disposed perpendicular to the planes of the first and second series of circles, the circles of each series being spaced apart 10° from each other, a substantially square base underlying the outer sphere, corner supporting arms terminally secured to the outer sphere and the corners of the base to support the outer sphere above the base, said base having an upper face with two relatively perpendicular intersecting center lines thereon to represent two different directions.

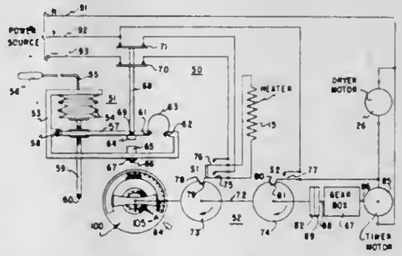
**2,645,031**
**APPARATUS FOR DRYING FILMLIKE MATERIALS**
**Charles N. Edwards, Washington, D. C., assignor to Hispeed Equipment, Inc., New York, N. Y., a corporation of New York**
**Application February 7, 1950, Serial No. 142,862**
**4 Claims. (Cl. 34—48)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. Apparatus for the rapid drying of plastic films and the like by the movement of said plastic films therethrough comprising a housing body, a passageway for the conduction of said plastic films extending centrally and longitudinally through said body, conduit means in said body for introducing into said passageway a gaseous drying medium under pressure to move forward said plastic films and the like in said passageway and to rapidly dry them therein, said housing comprising at least two members attached together with said passageway symmetrically positioned in and between said members, said passageway increasing in vertical dimension toward both the inlet and discharge ends from a throat point therein, said conduit means including at least one conduit in each of said members for introducing into said passageway near said throat at an inclination in the direction of movement of the plastic films and the like through said passageway a dried gaseous medium under pressure to move said plastic films and the like through said passageway and to rapidly dry them therein.

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**2,645,032**
**CONTROL MECHANISM FOR CLOTHES DRIERS**
**Kemper M. Hammell, Harrisburg, Pa., assignor to General Electric Company, a corporation of New York**
**Application April 25, 1951, Serial No. 222,762**
**11 Claims. (Cl. 34—53)**

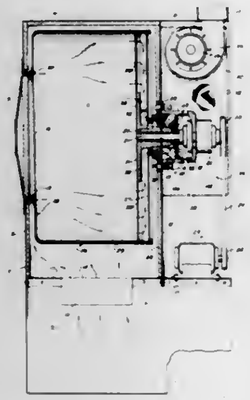



1. Control mechanism for a clothes drier including means for tumbling the clothes, and means for heating the clothes; said mechanism comprising a stationary support, a first movable control member having an off position and carried by said support and manually settable with respect thereto, a movable element carried by said first control member and bearing a dry-index, a second movable control member carried by said first control member and manually

settable with respect thereto, means responsive to setting of said second control member for setting said element with respect to said first control member, said first and second control members bearing cooperating weight indicia so that said dry-index may be selectively set to a position disposed a variable distance away from the off position of said first control member in accordance with the weight of the clothes to be dried, an index marker carried by said support and cooperating with said dry-index so that said first control member may be initially set a variable distance away from its off position in accordance with the preset position of said dry-index, a timer operative to return said first control member back into its off position during a variable time interval dependent upon the initially set position of said first control member, a switch having open and closed positions for controlling operation of said tumbling means and energization of said heating means, and means responsive to setting of said first control member away from its off position for actuating said switch into its closed position and for initiating operation of said timer and responsive to the return of said first control member back into its off position for actuating said switch into its open position and for arresting operation of said timer.

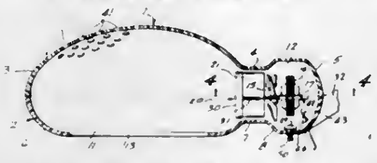
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**2,645,033**
**TUMBLER**
**Olaf E. Kling, Chicago, and John P. Jorgenson, Wilmette, Ill.**
**Application April 10, 1950, Serial No. 154,984**
**14 Claims. (Cl. 34—82)**



1. In a tumbler: a rotatable drum having an air inlet opening and having an end wall formed with a central opening; an auxiliary end wall in said drum spaced inwardly of said first-mentioned end wall and forming an auxiliary end chamber therebetween, said auxiliary end wall being formed with an air passage therethrough; a drum supporting shaft fixed to said auxiliary end wall and projecting axially outwardly through the central opening of said first-mentioned end wall; a fixed housing surrounding a projecting portion of said drum supporting shaft and having an air inlet opening in registration with the central opening of said first-mentioned end wall, said housing also having an air discharge opening; and a bearing carried by said housing in which said drum supporting shaft is journalled for rotation.

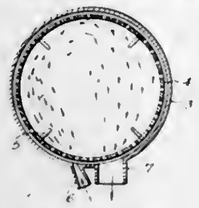
**2,645,034**
**HAIR DRIER**
**Arleigh Glynn Hupp, Milwaukee, Wis.**
**Application May 29, 1950, Serial No. 164,987**
**9 Claims. (Cl. 34—99)**



1. In a hair drier having a fan unit and heating element; a casing therefor formed in halves which may be separated along a parting line in a plane substantially common with its longitudinal axis and comprising, a hood portion with a bottom opening to fit about a person's head, a throat portion disposed rearwardly of the head to enclose the said heating element, an air supply chamber to enclose the said fan unit disposed rearward of and in communication with said throat, and means formed in a parting edge of said casing to support and locate the said fan unit and heating element when the halves are in engagement.

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**2,645,035**
**DRYING APPARATUS FOR LAUNDRY WORK**
**Henricus C. A. Zwaard, Rijswijk, Netherlands, assignor to Machinefabriek Reineveld N. V., Delft, Netherlands, a company of the Netherlands**
**Application February 28, 1949, Serial No. 78,745**
**In the Netherlands March 2, 1948**
**3 Claims. (Cl. 34—139)**



1. A laundry drier comprising a stationary impervious cylindrical housing disposed on a horizontal axis, and an apertured drum journalled substantially concentrically within said housing with the walls of said housing and drum being closely juxtapositioned, said drum being adapted normally to be rotated in one direction, the cylindrical wall of said housing having a single air inlet opening and an air outlet opening, said openings being adjacent but separated from each other with the inlet opening forward of the outlet opening in the direction of drum rotation, said inlet opening being in the form of a narrow axially extending slot and said outlet opening having a cross-sectional area greater than that of said inlet opening.

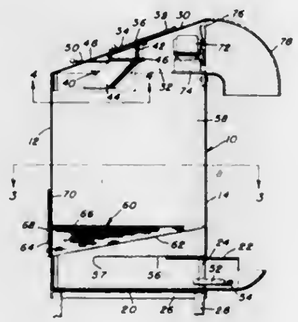
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**2,645,036**
**WALNUT DEHYDRATOR**
**John M. Frantz, Modesto, Calif.**
**Application August 17, 1951, Serial No. 242,351**
**2 Claims. (Cl. 34—213)**

1. A drying device comprising a casing having an air inlet opening adjacent its lower end and an air outlet opening adjacent its upper end, means in said casing for heating the air entering said inlet opening, blower means for forcing air



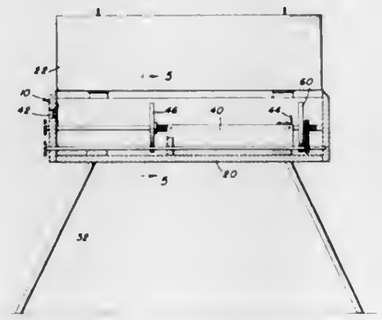
through said casing, an article discharge opening in the front side of said casing above the bottom thereof, and a foraminous article support member in said casing, said support member including a bottom inclined upwardly away from said opening and upwardly and rearwardly diverging sides,



and a vertically inclined dispensing chute horizontally swingably mounted adjacent the upper end of said casing for directing the articles discharged therein onto said support member, and a downwardly directed duct on said outlet opening, said duct terminating in vertically spaced relation to said inlet opening.

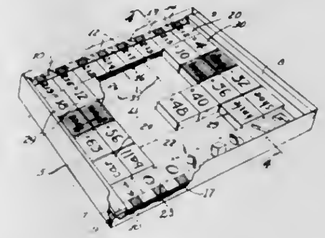
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**2,645,037**
**GUN SIGHTING**
**Albert J. Talone, Morrisville, Pa.**
**Application December 3, 1951, Serial No. 259,531**
**7 Claims. (Cl. 35—25)**



1. A sight trainer comprising a case, a simulated gun barrel rigidly mounted in said case, a front sight on said barrel, a sighting aperture in said case in alignment with said barrel and said front sight, a rear sight disk rotatably mounted adjacent the rear of said barrel, a plurality of rear sight apertures in said rear sight disk, means for rotating said disk to selectively position said rear sight apertures in proximity to the line of sight between said sighting aperture and said front sight, one of said apertures being capable of correct alignment in said line of sight, a target disk adjacent the front of said barrel, a plurality of targets on said target disk, means for rotating said target disk to selectively position said targets in proximity to said line of sight, one of said targets being capable of correct alignment in said line of sight.

**2,645,038**
**EDUCATIONAL DEVICE PRESENTING PICTORIAL AND NUMERICAL PROBLEMS**
**Albert H. Merrill, Los Angeles, Calif.**
**Application November 26, 1951, Serial No. 258,122**
**5 Claims. (Cl. 35—31)**



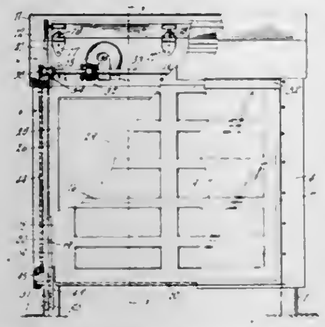
1. In an educational device of the kind described, a tray having a floor and side walls upstanding from said floor, a pair of elongated crosspieces mounted, one at one end of said tray and the other at the opposite end thereof, each of said crosspieces substantially bridging the space between said side walls and each having a substantially horizontal slot extending into an end thereof adjacent to a side wall of the tray, a slide extending along the inner side of said side wall, said slide having its end portions loosely fitted in the aforesaid slots and being thus supported in an upwardly spaced relation to the tray's floor, a plurality of slips which are nestable in pack formation partly under said slide, each of said slips having a face along one side portion of which extends a column of problems and along the opposite side portion of which extends a column of answers to said problems, said column of answers on the upper face of the uppermost of the mounted slips underlying the slide and the remainder of said face of such slip being clear of the slide, said slide, along its length, having a series of windows alternating with opaque portions and being adjustable longitudinally so as to bring said windows into and out of register with the answers of the underlying column of answers, and a set of detached answer blocks supportable by the floor of said tray alongside the problems of each uppermost mounted slip to indicate the answers to the problems thereon.

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**2,645,039**
**SIGN OR DISPLAY DEVICE FOR UPWARDLY ACTING DOORS**
**William B. Rosenbaum, Hartford City, Ind., assignor to Overhead Door Corporation, Hartford City, Ind.**
**Application May 14, 1951, Serial No. 226,167**
**12 Claims. (Cl. 35—49)**

10. In a display device, the combination of a housing having windows in the sides thereof, a vertical partition between the windows, inverted U-shaped track members disposed in said housing, an upwardly acting door simulating unit comprising a plurality of horizontally articulated panels having guide elements guided by said tracks, the number of panels exceeding the number viewable through a window when the door is in closed position relative thereto, the excess panels being concealingly housed within the upper part of the housing when the door is in closed position relative to one window, and means for reciprocating said door unit along said track members to alternately close said door unit be-

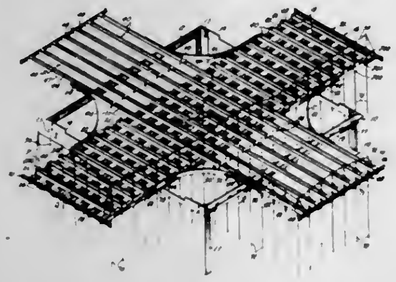
hind said windows comprising a driving sprocket, an idler sprocket, and a driving chain trained



over said driving and idler sprockets and operatively connected to one of the panels.

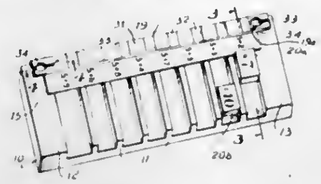
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**2,645,040**
**MACHINE FOR DESIGNING INTERSECTIONS**
**Christian Beck-Meyer, Burbank, Calif.**
**Application April 16, 1951, Serial No. 221,215**
**7 Claims. (Cl. 35—53)**



7. In a machine for designing intersections a frame having horizontal supporting members, a first series of laterally spaced parallel channel elements extending across the supporting members in one direction and adapted to be fixed upon the frame at selected intervals, a second series of laterally spaced parallel channel elements extending across other supporting members in a direction transverse to the first series and overlying the first series, channel elements in one series being pivotally secured on a vertical axis to channel elements in the other series and being adjustable angularly in a horizontal plane relative to each other, sets of channel members parallel to said second series of channel elements and overlying said first series of channel elements and adapted to be spaced at selected intervals to correspond with the spacing of said second series of channel elements and a plurality of elevator rod holders releasably secured on each channel element and adapted to be moved to selected positions along the channel element and a rod in each holder having a resistant vertically movable connection thereto adapted to be moved to selected elevations above the channel element, means adapted to interconnect the tops of the rods, and curved corner elements having an attachment to outside channel elements of the first and second series adjustably attached to said last identified channel elements for varying the length and curvature.

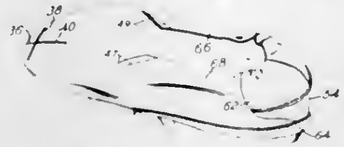
**2,645,041**
**EDUCATIONAL DEVICE TEACHING READING AND ARITHMETIC**
**Albert H. Merrill, Los Angeles, Calif.**
**Application October 9, 1951, Serial No. 250,459**
**3 Claims. (Cl. 35—73)**



1. In an educational device of the kind described, an elongated base plate having a series of substantially parallel spaced apart ribs extending transversely across its upper face, a problem slip of less width than said base plate positionable thereon in an overlying relation to one side portion only of the upper face thereof, said slip having inscribed upon it a column of problems in which, when the slip is positioned as aforesaid, the individual problems register with the spaces between said ribs, a set of blocks wherein individual blocks are seatable alongside said problem slip, when the latter is positioned as aforesaid, into the spaces between said ribs, said blocks having inscribed upon them answers to the problems carried by said problem strip, the lower faces of the seated blocks being at a lower level than said problem slip when positioned as aforesaid and a tray in which said base plate is fittable, said blocks when occupying the spaces between said ribs being abuttable against one side edge of the mounted problem slip, said tray having a side wall portion which forms a stop against which the opposite side edge of the mounted problem slip is abuttable.

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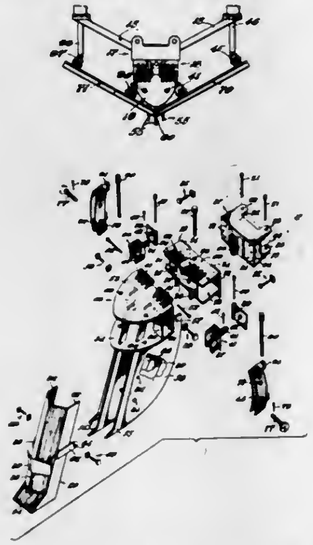
**2,645,042**
**MOCCASIN**
**Karl A. Stritter, Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application October 20, 1950, Serial No. 191,250**
**2 Claims. (Cl. 36—11)**



2. A shoe of the moccasin type having integral bottom and side portions at the forepart, having a plug sewed to the sides of the forepart, and having an insole portion integral with the bottom of the forepart and extending integrally rearwardly therefrom to form the ball, shank and heel portions of an insole, there being forwardly extending, outwardly flaring slits between the ball portion of the insole and the side portions, the side portions having rearward extensions at both sides thereof, and said side portions and rearward extensions being lasted under the insole portion at the ball, side and heel portions thereof with the side portions carrying the outer edges of said slits lying under the insole portions carrying the inner edges of said slits to form a snug fitting shoe in the ball portion.



**2,645,043**
**DITCH DIGGING ATTACHMENT FOR VEHICLES**
**Roy Booton, Dunbar, and Gilbert C. Bower, Sissonville, W. Va., assignors to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts**
**Application April 22, 1948, Serial No. 22,534**
**2 Claims. (Cl. 37—98)**

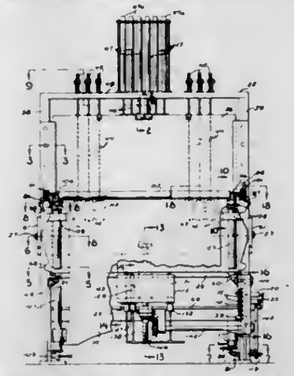


1. A ditch digging device for attachment to a vehicle, having in combination a supporting frame, a base member connected thereto, means for moving said supporting frame vertically, a vertical plow member, mold boards operatively associated with the said plow member, supporting members for the said mold boards as follows, one pivotally connected to each side of the said base member, one pivotally connected to each side of said plow member, and one pivotally connected to each outward lateral extremity of the said supporting frame, perforated flange members connected to said mold boards, perforated flange members connected to said supporting members, means for interlocking said supporting member flanges to said mold board flanges in a plurality of positions, and means for varying the position of the lateral support members from forwardly to rearwardly along the line of advance.

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**2,645,044**
**APPARATUS FOR PRESSING SHEETS**
**John Zimarik, Akron, Ohio**
**Application September 4, 1948, Serial No. 47,921**
**21 Claims. (Cl. 38—2)**

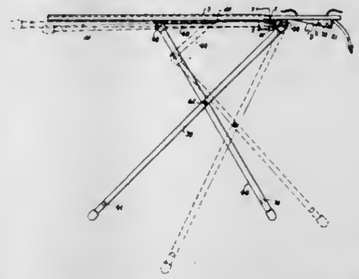
1. In apparatus for pressing sheets, a first series of substantially parallel spaced plates, a second series of substantially parallel plates, means for mounting the second series of plates to be relatively movable edgewise substantially in parallelism to closed interfitting relationship within the spaces between adjacent corresponding plates of said first series of plates, means for relatively moving said plates of said second series thereof one at a time in sequence toward said interfitting relationship and means for anchoring one end of a sheet to be pressed to have the remaining portion substantially unrestrained and extended to



be sequentially engaged by said interfitting plates progressively to fold the sheet accordion style.

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**2,645,045**
**PORTABLE IRONING STAND WITH IRON SUPPORT**
**John Henry Walter Lewis, Chaldon, near Caterham, England**
**Application November 4, 1947, Serial No. 783,870**
**In Great Britain November 7, 1946**
**10 Claims. (Cl. 38—107)**

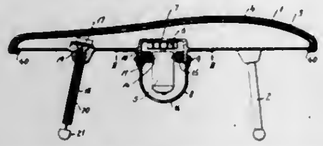


2. A portable ironing stand comprising an ironing top for the work to be ironed, a foldable supporting structure connected with said ironing top for movement between a folded condition for stowing of the stand and an unfolded condition for use of the stand, a fireproof support fixed to said ironing top for the reception of an iron when not in use; a control member movable between two positions on said stand and cooperating with said foldable structure to lock same against folding when unfolded; means comprising at least one movable iron retaining member carried by the ironing top for movement between iron locking and unlocking positions with respect to said fireproof support, a locking member on said stand and cooperating with said control member to lock said foldable structure against movement into folded position, said control member coupling said iron retaining member and locking member for coaction so that when said control member is in one of said two positions, said iron retaining member is unlocked and said locking member is engaged with said control member to lock said foldable structure against folding; and when said control member is in the other position, said iron retaining member is locked against movement in

iron locking position and said locking member is disengaged from said control member for folding said foldable structure.

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**2,645,046**
**PORTABLE PRESSING TABLE**
**Otto Frej, Toftlund, Denmark**
**Application September 19, 1949, Serial No. 116,603**
**In Denmark August 26, 1948**
**3 Claims. (Cl. 38—137)**



1. An ironing board comprising an elongated hollow body having a top wall and a bottom wall defining a cavity therebetween, a plurality of spaced apertures being formed in said top wall, an opening formed in said bottom wall, an electric motor arranged in a vertical position below said opening, an annular flange adjacent the circumferential edge of the said opening, a fan located within the space surrounded by said flange and attached to the shaft of said motor, a number of radially disposed spaced projections on the inner surface of said annular flange, a number of radially disposed lugs on the external circumferential face of said electric motor arranged each to engage one of the said projections within the said annular flange to support the motor on same, a groove in the inner face of each of the radially disposed spaced projections supporting the motor, arranged to receive an individual one of the lugs on the external surface of the motor, when the latter after having been brought to a position in which the lugs are received in the spaces between said projections, is turned about its axis, and a cushion of a vibration-damping material arranged in each of said grooves to bear against the adjacent faces of said projections and said lugs.

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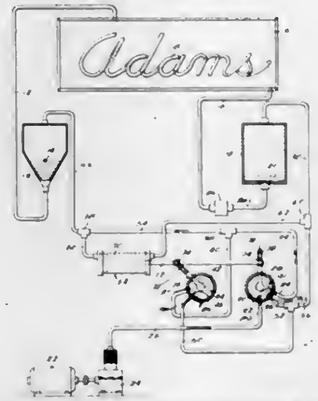
**2,645,047**
**FLASHING ILLUMINATED SIGN**
**William F. O'Gorman, New York, N. Y., assignor to The Tel-A-Tale Motion Sign Corp., New York, N. Y., a corporation of New York**
**Application May 13, 1948, Serial No. 26,748**
**16 Claims. (Cl. 40—32)**



1. A flashing illuminated sign comprising a stationary opaque panel having a plurality of spaced perforations therein arranged in longitudinally and transversely extending rows, a source of light rearwardly of the panel and a movable opaque, flat sheet of relatively stiff material interposed between the panel and the source of light, said opaque sheet having perforations therein arranged in a plurality of consecutively presentable groups, all of the perforations in a particular group adapted to be brought into simultaneous registry with predetermined perforations in the panel, and the perforations of consecutively presentable groups of perforations adapted to be brought into successive simultaneous registry with predetermined perforations in the panel, means for moving said opaque sheet in a predetermined, non-circular path parallel to the panel to bring said groups of perforations into successive registry with predetermined perforations in the panel to permit light from the light source to be visible at the front of the panel in the form of successive items of intelligence, the perforations of each group in the opaque sheet being so oriented that each perforation therein can be brought into registry with only a predetermined perforation in the panel.

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**2,645,048**
**WRITING SIGN**
**Raphael J. Adams, Olympia, Wash.**
**Application January 12, 1949, Serial No. 70,533**
**1 Claim. (Cl. 40—130)**




An advertising sign for simulating script writing comprising a neon tube, a hollow tube having the same configuration as said neon tube and arranged in front of the latter, an opaque fluid column adapted to move through said hollow tube, a floatable ball adapted to move through said hollow tube, and means for sequentially moving the fluid column in reverse directions through the hollow tube, said means comprising an air compressor, a motor for operating said air compressor, conduit means for conducting air from said compressor to said fluid column, and valve means for controlling the direction of flow of air through said conduit means.

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**2,645,049**
**METHOD OF ORNAMENTING ARTICLES**
**Bertram M. Brown, Pawtucket, R. I., assignor to Rosbro Plastics Corporation, a corporation of Rhode Island**
**Application January 27, 1951, Serial No. 208,193**
**2 Claims. (Cl. 41—24)**

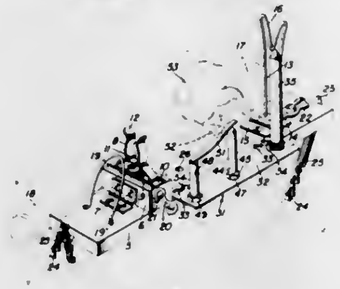


1. The method of forming an ornamental member which comprises providing the member with a plurality of distinct substantially parallel surface areas including an inner surface area and an outer surface area, each area located at a different distance from the outer surface area and then rolling a smooth resilient normally cylindrical surface to which color has been added over all surface areas by deforming the cylindrical surface to cause contact with the outer and at least one additional surface area and then rolling a smooth resilient normally cylindrical surface to which a different color has been added over all surface areas and deforming the last said cylindrical surface an amount to fail to contact with the surface area previously coated.



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**2,645,050**
**ILLUMINATED SIGNAL FOR FISHING POLE HOLDERS**
**Michael Golias, Sharon, Pa.**
**Application August 15, 1950, Serial No. 179,590**
**2 Claims. (Cl. 43—17)**

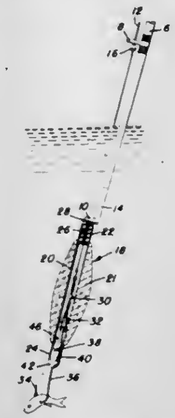


1. A fishing rod holder comprising an elongated base having front and rear ends, a resilient clip upstanding adjacent the rear end of the base for engaging the handle end of a fishing rod, means to attach said clip to said base, a fishing rod support upstanding from said base adjacent its front end for supporting the fishing rod forwardly of said handle end, a U-shaped bail hinged to said base adjacent said clip for swinging over said handle end to lock said handle end engaged with said clip, a plate extending from one side of the base, a flashlight supported on said plate, and a flashlight controlling switch supported on plate between said clip and fishing rod support for closing by the handle of the reel on said fishing rod.

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**2,645,051**
**FISHING TACKLE WITH RETRIEVING MEANS COMBINED THEREWITH**
**Alton A. Stofleth, Evansville, Ind.**
**Application April 4, 1952, Serial No. 280,552**
**4 Claims. (Cl. 43—17.2)**

1. Fishing tackle comprising a combined fishing pole, line, bobber, sinker, and fishhook assembly wherein said pole has aligned line eyes on one side thereof, one of said eyes being fixed to the pole at the tip of said pole and provided with an exterior surface substantially at right angles to the longitudinal axis of the pole and in a single plane, said bobber having a central cylindrical axial opening provided with a bushing, said bushing being provided at its upper end with an end thrust abutment having a surface in a single plane and adapted to align with and abut the complemental exterior surface of said eye, said sinker having said hook integral therewith, a portion of said sinker being cylindrical and of a diameter to fit snugly but slidably within the lower end of the opening in said bobber, said sinker having, at the end thereof from which the hook extends, a flange provided with a flat surface, said flat surface adapted to firmly abut the lower end of said bobber, and a stop adjustably secured to said line, said stop being of a diameter to pass freely through the eye at the tip end of said pole, the bore of said



bushing being of a diameter less than the diameter of said stop, said line having a swivel at the lower end of the line adapted to pass freely through the lower end of said opening, said swivel being secured to said sinker, whereby pulling of the line tautly through said opening and bushing will cause the hook, sinker, bobber and pole to be in rigid relationship to facilitate removal of the hook from an obstacle, other than a fish, with which said hook may be engaged.

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**2,645,052**
**FISH LURE**
**Walter Schiller, Forestville, Calif.**
**Application April 11, 1949, Serial No. 86,697**
**3 Claims. (Cl. 43—42.33)**



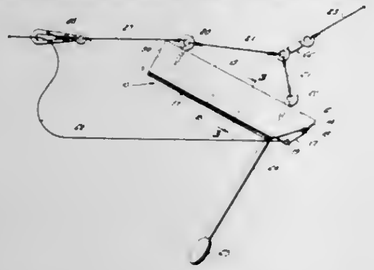
1. A fish lure formed of material initially having tubular contour, said lure comprising forward and rear portions and an intermediate hollow portion closed at each end, the forward and rear portions depending from the intermediate portion so as to define therewith an overall arcuate structure, said rear portion being concave transversely and longitudinally and the forward and rear portions being approximately equal to the intermediate portion in length, said forward and rear portions having provision for the attachment of a fishing line and hooks thereto.

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**2,645,053**
**TROLLING LINE SINKER**
**Adrian J. L. Moritz, Jensen Beach, Fla.**
**Application December 8, 1950, Serial No. 199,831**
**3 Claims. (Cl. 43—43.13)**

3. A trolling line sinker that comprises an elongated float having two wings arranged to

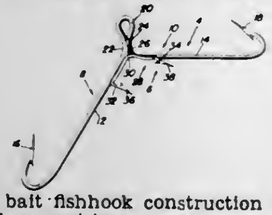
form a symmetrical angle section body having its external angle greater than its internal angle, the wings at the forward end of said body being swept back, a projection on said float extending longitudinally thereof and lying between said wings in the internal angle, said projection being tapered longitudinally from front to back, a stem



having one end fixed to the forward end of said projection, a weight fixed to the other end of said stem, a fish line secured to the forward end of said projection, a clamp attached to the rear end of said float detachably holding the fish line and means defining a triangular connection being articulated with the ridge on the body which constitutes the apex of said internal angle.

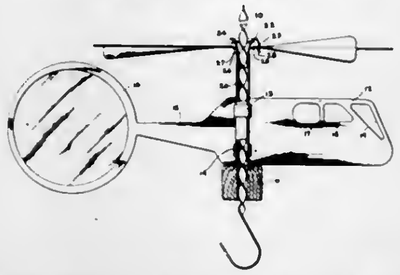
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**2,645,054**
**DOUBLE-DUTY FISHHOOK**
**Cloyd T. Taylor, Traverse City, Mich.**
**Application July 12, 1950, Serial No. 173,261**
**1 Claim. (Cl. 43—44.2)**



A live bait fishhook construction of the type described comprising a one-piece substantially V-shaped fishhook adapted to parallel a bait when the latter is attached thereto and of a length approximating the over-all length of the applied bait and embodying a centrally situated line eye and a pair of linearly straight shanks having their corresponding inner ends integral with opposite portions of said eye and having their opposite ends diverging outwardly from said eye and terminating at their respective outer ends in barbed hooks having the barbed portions facing towards each other and also facing towards said eye, said eye, shanks and hooks all being in a common plane, one of said hooks being adapted to penetrate the head portion of the bait, and the other hook being adapted to penetrate the tail portion of said bait, and a substantially U-shaped member having an approximately V-shaped bight portion superimposed against, secured to and bridging the existing crotch at the juncture of said eye and said shanks and also having lateral ends projecting from the intermediate portions of said shanks at right angles in respect to said common plane and terminating in bait impaling barbs, the latter being in positions relative to said shanks, eye and barbed hooks to properly penetrate the base portion of the dorsal fin of the bait at longitudinally spaced points on said fin.

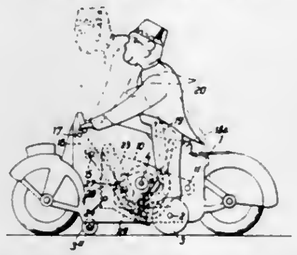
**2,645,055**
**HELICOPTER TOY**
**Narcy B. Ruczynski, Grand Rapids, Mich.**
**Application March 10, 1949, Serial No. 80,624**
**1 Claim. (Cl. 46—75)**



A helicopter toy, comprising: a tubular column having a flange forming a thrust bearing at the normally uppermost end thereof and a tapered journal section having a downwardly-decreasing diameter disposed coaxially with and immediately below said thrust bearing; a lifting rotor having a shallow hub provided with a circular central aperture forming a bearing of a size adapted to rotatably engage the largest portion of said journal section and bear against the under surface of said flange; and driving means for said rotor including a downwardly dished transverse plate adapted to bear against the upper surface of said flange having a non-circular central aperture for engaging a matching twisted wire driver and disposed on the opposite side of said flange from said hub in axially spaced relationship establishing substantial clearance between said flange and said hub and plate, said plate being detachably secured to and spaced from said hub by integral leg means extending radially from said plate, outwardly around said flange, and down to and attached to said hub.

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**2,645,056**
**TOY VEHICLE WITH MOVABLE FIGURE**
**Hans Mangold, Furth (Bavaria), Germany**
**Application January 18, 1951, Serial No. 206,665**
**In Germany January 30, 1950**
**4 Claims. (Cl. 46—107)**



1. A toy vehicle, especially a toy motor cycle provided with the figure of a cyclist and having a running gear adapted to drive the vehicle, comprising a casing, a shaft driven by said running gear, a cam and cog disc arranged on and rotated by said shaft, a controlling link pivotally mounted in the casing in operative relation with the cam and cog disc to be actuated thereby, a swinging operating arm rotatably mounted in the casing and actuated by said controlling link, a bar carrying the figure of the cyclist and rotatably connected with and operated by said operating arm, a bell crank lever rotatably mounted in the casing, and a controlling arm connected at one end with the bell crank lever and the other end being operatively connected with the said carrying bar, said cam and cog disc upon rotation coacting with said bell crank lever and controlling arm to lift the cyclist from his normal position by the carrying bar and to bring him into a prone position, then to raise him from the last mentioned position and to bring him again to the prone position.



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**2,645,057**
**MANNIKIN'S HEAD HAIR STRUCTURE**
**Louis Napolitan, New York, N. Y.; Loretta Napolitan, administratrix of said Louis Napolitan, deceased**
**Application April 19, 1949, Serial No. 88,445**
**1 Claim. (Cl. 46—172)**



In a mannikin head or the like comprising a head member having a filled-in scalp area, in combination, the composition for said scalp area comprising a material consisting essentially by weight of about 8 parts of magnesite, 1/5 part silex, 8 parts plaster of Paris, 12 parts salt water, ½ part mucilage, ½ part linseed oil, 1 part varnish, and 1 part wax, and hair embedded in said material.

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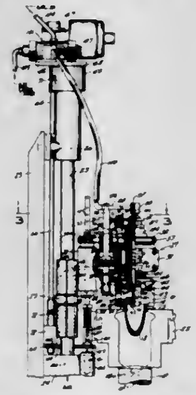
**2,645,058**
**DEBARKER AND SPRAYER**
**Charles F. Dukes, Hoboken, and Lee Godwin, Nahunta, Ga.**
**Application August 1, 1949, Serial No. 107,904**
**3 Claims. (Cl. 47—12)**



1. A debarker and sprayer comprising a handle having inner and outer end portions, a bark removing blade removably secured to the outer end portion of said handle and disposed laterally of the handle, a rigid holder held stationary on the outer end portion of said handle beyond the blade, and a collapsible container supported by said holder at one side of the handle and substantially parallel to the handle and so positioned with respect to the blade as to permit use of the blade in scraping bark without obstruction from the container after which the container may be manually depressed to spray the portion of a tree whose bark was removed by the blade.

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**2,645,059**
**APPARATUS FOR AND METHOD OF FORMING PASTE MOLD GLASSWARE**
**George E. Rowe, Wethersfield, Conn., assignor to Emhart Manufacturing Company, Hartford, Conn., a corporation of Delaware**
**Application March 5, 1951, Serial No. 213,956**
**14 Claims. (Cl. 49—18)**



1. The method of forming a paste mold article of glassware which comprises presenting a hollow open ended parison in upright position at a paste mold station, closing a plural-part paste mold about the parison to support it with its open upper extremity projecting slightly above the paste mold and the remainder of the parison depending in the mold out of contact therewith except at the top of the mold, gripping the projecting upper extremity of the parison and effecting a slight relative vertical movement between the parison and the mold to take the weight of the parison off the mold while the major portion of the parison remains suspended in the mold, effecting relative rotation between the parison and the mold and blowing the parison to the internal shape of the mold.

3. In glass forming apparatus, a paste mold comprising a plurality of cooperative sections, pivoted arms carrying the individual sections and operable to open and close them, liquid spray nozzles located in positions to discharge liquid onto the internal surfaces of the mold sections when said sections are open, a combination blow head and rotary gripper mechanism movable from a relatively raised and laterally disaligned position to a lower position directly above and in axial alignment with the closed mold sections, said combination mechanism comprising grippers operable to grip the upper end portion of an upright hollow parison projecting above the mold and to rotate the parison and further comprising means to deliver blowing fluid to the interior of the parison in the mold, a bottom plate operatively positioned at the bottom of the closed mold sections and having passages for liquid opening through its upper surface and liquid supply means operatively connected to said passages to direct therethrough to the internal surface of said bottom plate.

**2,645,060**

## METHOD OF PRODUCING SYNTHETIC MICA

**Jack H. Waggoner, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware**

**No Drawing. Application May 21, 1949, Serial No. 94,723**
**4 Claims. (Cl. 49—77)**

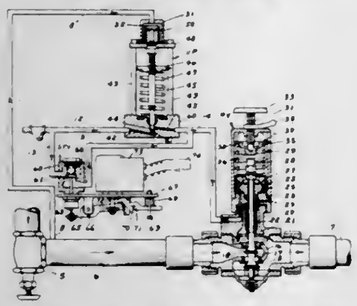
1. In the method of manufacturing synthetic mica, the steps of advancing a fluor-phlogopite micaceous melt in suitable molds through an elongate chamber, maintaining an atmosphere of fluorine in the chamber to minimize volatilization of fluor-containing compounds from the micaceous melt, heating the chamber to provide a temperature in one end portion which is above the critical crystallization temperature range for the micaceous melt and a temperature in the other end portion of the chamber which is below the critical crystallization temperature range for the micaceous melt, and advancing the crystallization molds through the chamber from the end portion having the higher temperature to the end portion having the lower temperature.

**2,645,061**

## PRESSURE REGULATOR AND CUTOFF WITH AUXILIARY MANUAL CONTROL

**Erich Henkel, Calumet City, Ill., and Howard G. Nehrbas, Hammond, Ind., assignors to Combustion Engineering, Inc., a corporation of Delaware**

**Application December 27, 1948, Serial No. 67,426**
**4 Claims. (Cl. 50—4)**



1. The combination with a steam pressure line and an air pressure line, of a reducing valve in said steam pressure line, a valve spring normally holding said valve in open position, an air pressure cylinder operatively connected to said valve to move it into closed position, a normally open, under-pressure air valve for admitting air into said air cylinder to close said reducing valve, and means subjected to the pressure of steam on the upstream side of said reducing valve and operable at a predetermined pressure to close said air valve and place the reducing valve under control of its spring and the steam pressure on the downstream side thereof.

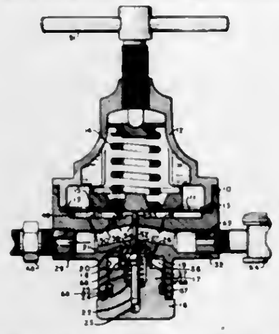
**2,645,062**

## GAS PRESSURE REGULATOR

**John S. Senesky, Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York**

**Application October 18, 1949, Serial No. 122,113**
**3 Claims. (Cl. 50—23)**

1. In a gas pressure regulator having a body portion provided with a gas inlet and a gas outlet, a valve controlling the flow of gas from the inlet to the outlet, and a diaphragm exposed on one side to the outlet gas pressure for controlling said valve, the combination therewith of a removable cap a portion of which has threaded engagement with a portion of the regulator body, a valve stem constituting part of the valve and having one portion which is guided in said cap and a second portion which is guided in the regulator body, a valve seat disc having a central opening controlled by said valve and through which said second portion of the valve stem projects, an annular valve seat positioning member disposed



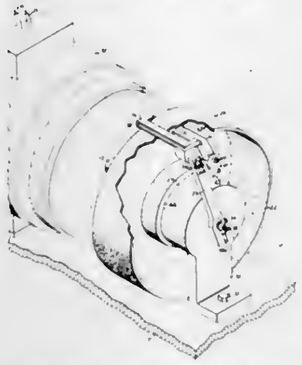
between the valve seat member and the threaded portion of the cap which engages the said valve seat disc adjacent its periphery and presses it against a surface of the regulator body when the cap is screwed in place to thereby effect a fluid tight seal between the valve seat disk and the regulator body, and a gasket providing a gas tight seal for said cap, the regulator body and the cap having parallel cylindrical walls which move relatively in parallel relation when the cap is screwed in place and which form an annular space in which said gasket is located.

**2,645,063**

## BLADE SHARPENING DEVICE

**Richard B. Smith, Hickory, N. C.**

**Application May 28, 1951, Serial No. 228,669**
**7 Claims. (Cl. 51—98)**



1. An improved device for sharpening razor blades, knives and the like, comprising a rotatable drum having an abrasive outer surface, means for imparting rotation to the drum, a magnet disposed within the drum, means for varying the position of the magnet about the axis of the drum, said magnet being substantially U-shaped and having its poles normally extending outwardly relative to the axis of the drum, a slotted blade guide disposed adjacent the outer periphery of said drum and means for adjusting the blade guide as to angularity relative to the periphery of the drum and for adjusting the blade guide relative to the magnet disposed within said drum whereby, upon rotation being imparted to the drum, a blade may be inserted in said slotted blade guide with the edge of the blade resting against the periphery of said drum and said magnet may be positioned within the drum forwardly of the point at which the blade engages the periphery of the drum relative to the direction of rotation of said drum to thereby sharpen the blade while sumultaneously causing the edge of the blade to be attracted by the magnet for attenuating the molecules therein to thereby effect a keen edge to the blade.



**2,645,064**

## ABRADING TOOL

**Joseph Pavlovic, Minneapolis, Minn.**

**Application March 28, 1952, Serial No. 279,016**
**11 Claims. (Cl. 51—187)**



1. In an abrading tool, an elongated body having a continuous sheet supporting surface extending along the opposite sides and about an end of said body, a pair of abrasive sheet engaging members projecting outwardly from opposite sides of said body and then inwardly toward said end of said body and adapted to engage portions of an abrasive sheet adjacent opposite ends thereof with said inwardly extending portions of said members when the sheet is placed about said end and along opposite sides of the body, and means for moving at least one of said sheet engaging members toward and away from an end of said body.

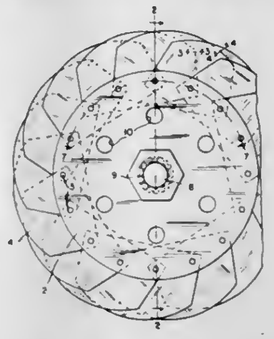
**2,645,065**

## BUFFING WHEEL

**Paul A. Kietzmann, East Detroit, Mich., assignor to Keystone Metal Moulding Company, East Detroit, Mich., a corporation of Michigan**

**Application January 15, 1951, Serial No. 206,066**
**3 Claims. (Cl. 51—193)**

1. A buffing wheel comprising spaced, co-axial circular plates, pins extending between said plates and arranged in a spaced, annular series, and a plurality of buffing sections disposed between said plates and sleeved over said pins at points adjacent the ends of said buffing sections, each of said buffing sections projecting beyond the outer peripheries of said plates and having an outer work-engaging periphery located entirely between the radii of the wheel passing through the axes of the pins adjacent the ends of the section, a major



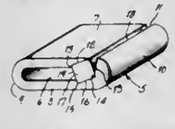
portion of the ends of each buffing section beyond the outer peripheries of said plates likewise being located between the aforesaid radii.

**2,645,066**

## COMBINED SCISSOR AND KNIFE SHARPENER

**Percy W. Andrews, New York, N. Y.**

**Application March 7, 1952, Serial No. 275,367**
**1 Claim. (Cl. 51—214)**



A combined knife and scissor sharpener comprising an elongated one-piece substantially rectangular-shaped body having flat upper and lower walls and curved side walls and having a central U-shaped opening continuing at one side of the body into a slot opening outwardly of the upper wall, the floor and roof of the U-shaped opening adjacent the slot each slanting downwardly and inwardly to provide shouldered seats, one wall of said slot slanting downwardly and inwardly from the top wall of the body, and an elongated sharpening stone, rectangular in cross-section, positioned in said slot against said shouldered seats so that one side of the stone is disposed at an angle and exposed in the slot and the opposite side of the stone is disposed in the U-shaped opening and exposed therein for sharpening a knife blade and scissor blade respectively.

**2,645,067**

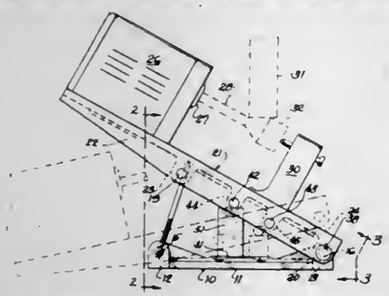
## WORKTABLE WITH SINE-BAR FEATURE

**Walter F. Hinderer, Kankakee, Ill.**

**Application June 9, 1950, Serial No. 167,078**
**1 Claim. (Cl. 51—237)**

An attachment for a machine tool for supporting a work-piece during machining thereof comprising a rectangular base for securement to the tool and a rectangular table for angular adjustment relatively to said base, a pair of laterally spaced first ears upstanding from said base at each end thereof, a pair of laterally spaced second ears extending downwardly from each end of said table and in face-to-face relation with corresponding ones of said first ears to maintain lateral relation of said table and base, each of a

pair of juxtaposed ears having aligned bores, removable pivots adapted to be placed selectively in one or the other of the pairs of bores at one end of the attachment for relative pivotal movement of said table and base, two pairs of laterally spaced third ears extending downwardly from said table and intermediate said pairs of second ears, a cylindrical rod secured in the laterally-opposite ones of each pair of third ears, said base having a fiducial surface of supporting conventional gauge blocks intermediate said surface and that one of said rods most remote from the said pivots to determine a desired angle of said



table, a cylindrical rod adapted to be inserted in the bores of said pair of first ears not then occupied by the pivots, said table having a pair of apertures through the flatwise extent thereof and at each end thereof, the upper end of the apertures having a spherically-contoured countersink, and a screw through that table aperture remote from the pivoted end thereof having a correspondingly spherically-contoured head seated in the aperture and threadedly engaged in said last rod intermediate the ears within which the last mentioned cylindrical rod is associated for anchoring the table against the gauge blocks, and work-holding means mounted on said table.

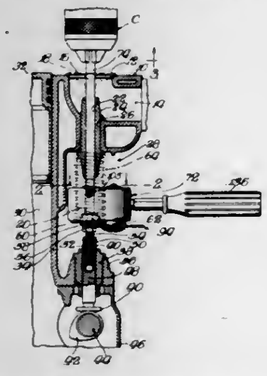
**2,645,068**

## APPARATUS FOR GRINDING THE WORN ENDS OF VALVE TAPPETS AND THE LIKE

**Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois**

**Application February 17, 1950, Serial No. 144,648**

**5 Claims. (Cl. 51—241)**



1. In combination, an internal combustion engine block having a valve guide formed with a cylindrical bore, a valve-actuating element mounted on said block with a face spaced from one end of and in alignment with said bore, and a grinder comprising a casing disposed between said face and said one end of said bore, a drive member mounted in said casing and having an axial bore therein in alignment with the bore of said valve guide, a rigid drive spindle extending through the bore of said valve guide and projecting therefrom at one end for connection with drive means and projecting at the other end into the bore in said drive member, means between said spindle and said drive member non-rotatably connecting them while permitting detachment of said spindle merely by outward axial movement thereof, a driven member rotatably mounted in said casing and drive-connected with said drive member and having its axis parallel with and displaced laterally from the axis of said drive member, and a circular rotatable abrasive member carried by said driven member and disposed exteriorly of said casing, said abrasive member being of such diameter that its periphery is disposed in alignment with the axis of said drive member.

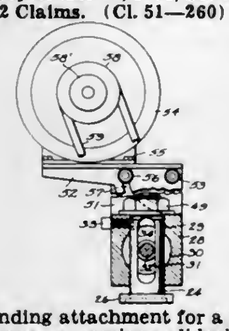
**2,645,069**

## GRINDING ATTACHMENT FOR LATHES

**Ira F. Walkey, Van Nuys, Calif.**

**Application September 11, 1951, Serial No. 246,020**

**2 Claims. (Cl. 51—260)**



1. In a grinding attachment for a lathe having transverse ways, a carriage slideably mounted on said ways, a rotatable work holder, and means for shifting said carriage transversely with reference to the axis of said work holder, the combination of: a single integral cylindrical post having a lower end extending into said carriage and provided with a head to engage said carriage; a bearing holder having a centrally disposed cylindrical vertical bore through which said post extends, and having a horizontal bore in two sections interrupted by said post, said post having a transverse aperture establishing communication between said bore sections, said bearing holder having a lower face bearing against said carriage and cooperating with said head to provide a pair of clamping jaws for clamping engagement of said carriage to secure said post and holder in fixed attachment to said carriage, said post and holder being rotatably adjustable relative to said carriage when such clamping engagement is relaxed; a tool arbor extending through said horizontal bore and through said aperture; bearing means mounted in the respective horizontal bore sections, in which bearing means said arbor is journalled; a motor mounted on said bearing holder; drive means connecting said motor and one end of said arbor; means on the other end of said arbor for securing a tool thereto and clamping means including a nut threaded on the upper end of said post, said clamping means engaging the top of said bearing holder and functioning to draw said jaws into clamping engagement with said carriage for fixing said holder in a selected position of angular adjustment of the axis of said arbor relative to that of said work holder.



**2,645,070**

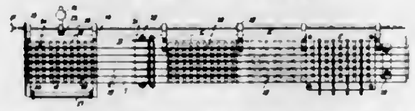
## MACHINE FOR PACKING TABLETS AND SIMILAR ARTICLES

**Charles Nicolle, Gentilly, France**

**Application May 27, 1947, Serial No. 750,681**

**In France June 3, 1946**

**9 Claims. (Cl. 53—90)**



9. Apparatus for cutting sheet material having spaced rows of recesses separated by plane portions, comprising a plurality of parallel cords supported at their ends and spaced apart by distances substantially equal to the spacing between said rows of recesses, so that the plane portions of said sheet material may rest on said cords with the recesses extending downwardly between the cords, cooperating upper and lower knives located respectively above and below said cords and extending transversely of said cords, said lower knife being movable upwardly to engage said upper knife and cut said sheet material, said lower knife having notches in its cutting edge for receiving said cords during the cutting operation.

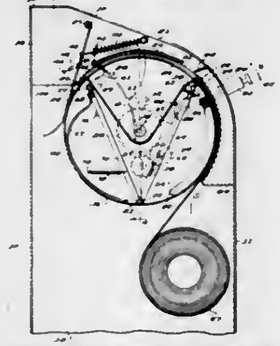
**2,645,071**

## REFUSE PACKAGING RECEPTACLE

**Rupert C. Mattson, Rapid City, S. Dak.**

**Application April 27, 1951, Serial No. 223,329**

**6 Claims. (Cl. 53—98)**



1. A material packaging receptacle comprising a casing having an opening in the upper surface, a cylindrical cradle journaled in the casing and having an opening therein positioned to register with the opening in the upper surface of the casing, stationary and movable frames operatively connected to the cradle and positioned in the form of a V with the open end of the V positioned to receive objects dropped through the openings of the cradle and casing, means positioning a web of packaging material across the opening of the cradle, means for rotating the cradle, and means actuating the said movable frame in the cradle for cutting and crimping the side edges of the web over an object into the cradle upon rotation of the cradle.



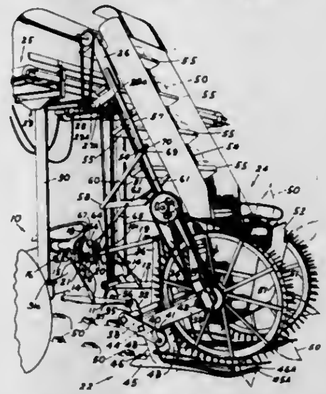
**2,645,072**

## POSITION CONTROL APPARATUS FOR BEET HARVESTERS

**Leon R. McRobert, Greeley, Colo., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware**

**Application April 22, 1947, Serial No. 743,186**

**5 Claims. (Cl. 55—106)**



1. In an attachment for a tractor having a pair of laterally spaced pivoted links trailing from its rear end portion together with a power actuated lift device for swinging said links upwardly and a movable spring returned control element therefor, movement of said control element from an equilibrium position in the spring-compressing direction being effective to initiate raising of said links: the combination comprising an implement, means for detachably connecting said implement to said links for raising and lowering thereby, said implement including an auxiliary member, means for detachably supporting said auxiliary member on said tractor for movement upwardly and downwardly in unison with the movement of said draft links, a control linkage interconnecting said auxiliary member and said tractor control element, and force multiplying means interposed in said control linkage to enable the weight of said auxiliary member to displace said tractor control element to its equilibrium position thereby to maintain said implement at a level corresponding to said equilibrium position.

**2,645,073**

## MOWER MOUNTING

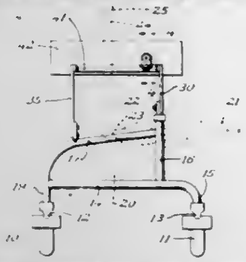
**James J. Dalglish, St. Paul, and Ralph L. Holm, Minneapolis, Minn., assignors to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware**

**Application March 18, 1950, Serial No. 150,424**

**3 Claims. (Cl. 56—25)**

1. In a mower the combination comprising a mower frame supported at one end by ground engaging means, a tractor drawbar, bracket means pivotally connected on the stubbleward side to said drawbar for rotation around a vertical axis, releasable resilient clamp means mounted on the grassward side in spaced relation from the vertical pivot axis along the longitudinal axis of said bracket for normally restraining said bracket from pivotal movement, and a pair of spaced link means each adjustably connected to a separate fixedly attached vertical plate on said mower frame and each pivotally connected to an associated bracket end for rotation around a horizontal axis parallel to the longitudinal axis of said

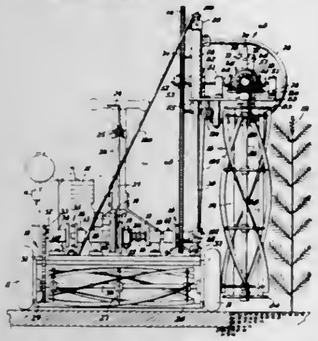
bracket, the horizontal pivot axis, the vertical pivot axis between said bracket and said draw-



bar, and said releasable clamp means all lying substantially in a common vertical plane and substantially in a common horizontal plane.

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**2,645,074**
**ADJUSTABLE REEL-TYPE HEDGE TRIMMER**
**Frank J. Jones, West Terre Haute, Ind., assignor of one-sixth to Luther Selvia and one-sixth to George W. Nisbet, both of West Terre Haute, Ind.**
**Application February 15, 1951, Serial No. 211,113**
**10 Claims. (Cl. 56—26)**

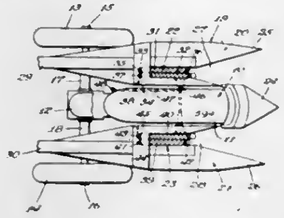


1. A hedge trimmer or the like, comprising a wheeled frame, an upstanding trackway carried on said frame, an auxiliary frame reciprocably guided on said trackway, a U-shaped guide bar carried by said auxiliary frame and projecting laterally therefrom and lying in a substantially vertical plane, a shaft journalled on said auxiliary frame upon an axis substantially perpendicular to said plane, a cutter unit mounted on said auxiliary frame for adjustment about the axis of said shaft and including a rotatable bladed reel, a guide block carried by said cutter unit and slidably sleeved on said guide for guiding said unit in such adjustment, means carried by said block and engaging said guide to retain said cutter unit in a selected position of adjustment, means for driving said shaft, and means providing an operative driving connection between said shaft and said reel.

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**2,645,075**
**CORN PICKER ROLL ADJUSTING MECHANISM**
**Elof K. Karlsson, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey**
**Application November 16, 1949, Serial No. 127,599**
**6 Claims. (Cl. 56—105)**

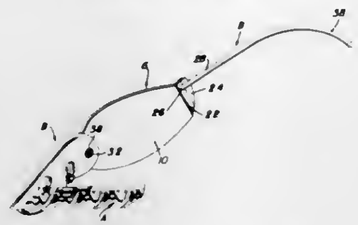
1. Lateral adjustment mechanism for corn picker rolls comprising a generally longitudinally extending supporting structure, cooperative picker rolls longitudinally disposed and carried on said supporting structure and adapted to be rotatably driven from one end thereof, one of said rolls hinged for lateral swinging movement about one end thereof, a journal support for the other end of the hinged roll, means operatively associated with said journal support adjustably positioning said journal support with respect to said supporting structure for moving that end of the roll



toward or away from its cooperative roll, said means including a shaft transversely disposed and carried in said supporting structure, hand lever means for rotating said shaft, said journal support having a sleeve associated therewith and extending laterally and transversely therefrom, said shaft telescoping said sleeve, and thread means interposed between said shaft and sleeve to effect adjustable separation upon rotation of said shaft whereby the hinged roll may be laterally adjusted.

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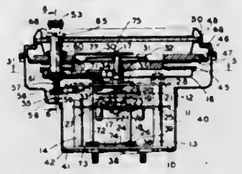
**2,645,076**
**MOWING MACHINE DIVIDER PLATE WITH DIVIDER ROD ATTACHED THERETO**
**John J. Doonan, Brooklyn, Iowa, assignor of one-half to Sylvanus S. Doonan, Brooklyn, Iowa**
**Application April 23, 1951, Serial No. 222,370**
**2 Claims. (Cl. 56—314)**



1. An attachment of the class described comprising an elongated flat surfaced divider plate having a smooth swath facing surface on one side and having a plurality of coacting reinforcing ribs on the other side, said plate being approximately ovate in marginal configuration and being provided at its leading end with a bolt hole and provided at its opposite trailing end with laterally offset flange means, the latter having a rod opening, a rod having one end portion and the adjacent intermediate portion superimposed against the ribbed side of said plate and terminating in an eye, said eye being in registration with said bolt hole, the intermediate portion of said rod passing through the opening in said flange means and the trailing end of said rod projecting well beyond said flange means, and a bolt passing through said bolt hole and through said eye and provided with a clamping and assembling nut cooperable with said eye.



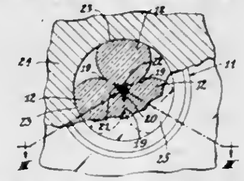
**2,645,077**
**CLOCK SETTING AND REGULATING MECHANISM**
**Peter Olson, Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill., a corporation of Delaware**
**Application February 7, 1947, Serial No. 727,203**
**9 Claims. (Cl. 58—80)**



7. In a clock, a movement including setting mechanism and regulating mechanism, a dial, hands cooperating with said dial and driven by said movement, independently operable actuating members for said setting and regulating mechanisms located in front of said dial in the position normally occupied by one of the numerals thereon, and means supporting said actuating members for rotation on a common axis, said supporting means extending through said dial.

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**2,645,078**
**JEWEL BEARING AND METHOD OF MAKING SAME**
**Ardé Bulova, New York, N. Y.**
**Application August 22, 1949, Serial No. 111,669**
**6 Claims. (Cl. 58—140)**



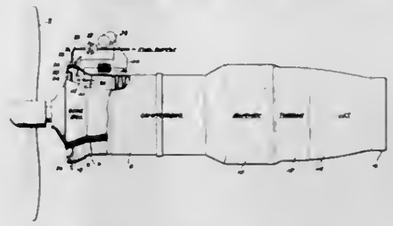
1. A jewel bearing comprising three members of a wear-resisting material, each of said members having a portion of its surface of spheroidal form, the axes of said spheroidal surfaces being disposed in a common plane and with said surfaces in contact and joined by fusion to provide a single unit having a bearing hole between the spheroidal portions of said members.

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**2,645,079**
**METHOD OF OPERATING JET PROPULSION MOTORS**
**Thomas F. Doumani, Los Angeles, and Clarence S. Coe, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California**
**No Drawing. Application June 6, 1944, Serial No. 539,030**
**4 Claims. (Cl. 60—35.6)**

1. In a method of operating a jet-propulsion motor, wherein a fuel is burned in a combustion chamber in the absence of separate oxidizer, and the products of combustion are allowed to escape through a jet, thereby producing a driving force, the improvement which comprises injecting into the chamber a fuel consisting essentially of a nitrogen and oxygen containing organic compound of the class consisting of organic nitrites and nitrates containing not more than four carbon atoms for each nitrogen atom, and igniting the fuel therein.

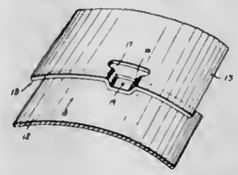
**2,645,080**
**DEICER FOR JET ENGINES**
**Philip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application October 25, 1949, Serial No. 123,319**
**6 Claims. (Cl. 60—39.09)**



1. A gas turbine power plant adapted for aircraft use, said power plant comprising essentially a compressor section having an inlet, a burner section connected to said compressor section and a turbine section connected to said burner section in combination with means for deicing the inlet of said compressor section including a deicing burner adjacent said compressor inlet and independent of said burner section, said deicing burner having an air inlet facing in the direction of aircraft flight, means for supplying fuel to said deicing burner to mix with air entering through said air inlet, means for igniting said mixture, support means connected to said compressor section, and means carried by said support means and located within said compressor inlet, said means being responsive to an accumulation of ice within said inlet for setting said fuel supplying and said igniting means in operation to warm air entering said compressor inlet.

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**2,645,081**
**SPACING MEANS FOR THE WALL SECTIONS OF FLAME TUBES**
**William M. McDonald, Nobel, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation**
**Application August 19, 1949, Serial No. 111,150**
**9 Claims. (Cl. 60—39.65)**



1. A flame tube, having in combination a first wall section, a second wall section having an end portion overlapping and spaced from an end portion of the first wall section to provide a space between the said end portions through which air can flow, said end portions having a common longitudinal axis, at least one of the said end portions having a plurality of laterally spaced-apart openings formed about its periphery, and having sides extending substantially longitudinally of the flame tube, and spacers formed of sheet material of a thickness substantially less than the width of the space between the overlapping sections and extending between the said end portions with their major surfaces substantially parallel to the longitudinal axis of said end portions and with one edge of each spacer facing the flow of air through said space

whereby the flow of air is substantially unimpeded; a spacer being secured to one of the wall sections having such openings, at one longitudinally extending side at least of each of the openings in that wall section and to the other wall section in face to face contact at a location lying adjacent said opening, the openings being of such substantial area that access to a spacer may be gained through each opening to secure the spacer to the said other wall section.

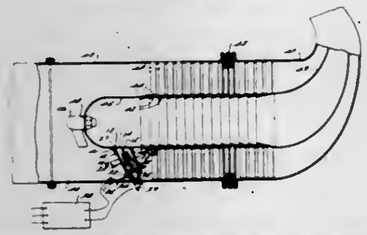
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**2,645,082**

## SURFACE GAP IGNITER PLUG FOR GAS TURBINES

**Jorma O. Sarto, Walled Lake, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**

**Application May 24, 1949, Serial No. 94,954**
**5 Claims. (Cl. 60—39.82)**



2. In combination with the wall structure of a high temperature gas turbine burner having tubes one without the other and being provided with a general supply of air under pressure therebetween, means forming a dome at one end of the inner tube, fluid flow path means in the sides of the inner tube for passing air from outer tube along the interior of the inner tube in the direction of said dome, fluid flow path means for introducing fuel particles into said dome, and means forming an opening in the side of the inner tube effectively intervening between said fluid flow path means for air and fuel particles and being generally in the path of fluid flow, an encased igniter disposed between said tubes having an end received in said opening and including sparking electrodes arranged to define a restrictive annular spark gap, said annular gap and said opening being disposed substantially in a common plane so as to expose the electrodes to the fluid flow aforesaid without protruding thereinto, and an opening in the case of the igniter for admitting a portion of the general supply of air between tubes, through the igniter case and restrictive annular spark gap such as to cause the spark to bow out into the space between said dome and said fluid flow path means for air.

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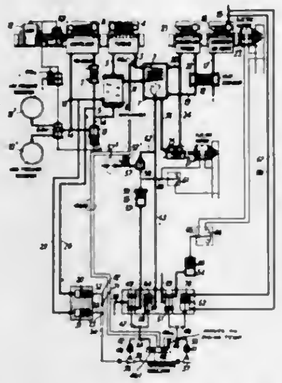
**2,645,083**

## HEAT SUPPLY REGULATION OF THERMAL POWER PLANTS

**Paul Brunner, Zurich, Switzerland, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland**

**Application October 24, 1949, Serial No. 123,203**
**In Switzerland November 4, 1948**
**11 Claims. (Cl. 60—49)**

1. Method for regulating the heat supply in thermal power plants in which at least the greater part of a gaseous working medium describes a closed circuit leading through at least one compressor, consisting of at least one compression stage, and at least one turbine, consisting of at least one expansion stage, and in which heat is supplied to this working medium from the outside in at least one heater by burning fuel with combustion air supplied to said heater, and heat is withdrawn from said working medium in at least one cooler, the course of the combustion air being entirely separated from the circuit described by the working medium; said method consisting in controlling both the supply of fuel and the supply of combustion air to the heater in relation to the combined variation of



at least two pressures, which exist at different points in the circuit separated from one another by at least one of said stages, the fuel and air supply being increased by the variation of the highest of said pressures substantially in the same ratio as the heat to be supplied to the working medium increases, if only this highest pressure increases, and the fuel and air supply being decreased by the variation of the lowest of said pressures substantially in the same ratio as the heat to be supplied to the working medium decreases, if only this lowest pressure increases.

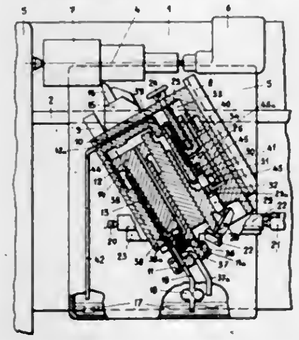
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**2,645,084**

## HYDRAULIC COPYING DEVICE FOR LATHES

**Ottomar von Zelewsky, Neuhausen am Rheinfall, Switzerland, assignor to Georg Fisher Aktiengesellschaft, Schaffhausen, Switzerland, a company of Switzerland**

**Application April 18, 1950, Serial No. 156,537**
**In Switzerland November 30, 1949**
**6 Claims. (Cl. 60—52)**



1. A hydraulic copying device, comprising, a body; a piston connected with said body, an actuator pivotally mounted in said piston, a steering pin movably mounted in said piston and pressing against said actuator, a regulating valve operatively connected with said steering pin, said piston having a chamber formed therein which is located above said actuator and is in communication with said valve, means pumping fluid to said chamber, and means connected with said valve for removing the pumped fluid when the valve is opened by said actuator.



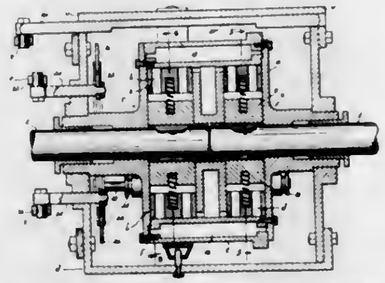
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**2,645,085**

## ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION

**José Aderito Gerhold, San Antonio Oeste, Rio Negro, Argentina**

**Application November 4, 1947, Serial No. 784,026**
**In Argentina April 22, 1947**
**4 Claims. (Cl. 60—53)**



2. A hydraulic transmission comprising a driving shaft and a driven shaft coaxially arranged, an end of said driving shaft and end of said driven shaft being disposed coaxially with a rotary drum, said drum being mounted in a frame, a rotary pump having the rotor thereof keyed to the end of said driving shaft, an expansible chamber motor arranged within said drum and having the rotor thereof coupled to the end of said driven shaft, an expansible fluid chamber disposed within said drum between the peripheral wall thereof and the periphery of the rotor of said pump, and an intermediate chamber disposed within said drum coaxially with said pump, said rotary pump having an inlet communicating with said intermediate chamber, said pressure chamber having outlets leading to said intermediate chamber and to said motor and inlets communicating with said rotary pump, said motor having an outlet communicating with said intermediate chamber, and valves coupled to a control lever for controlling the outlets of said pressure chamber to control flow of fluid from said pressure chamber into said intermediate chamber.

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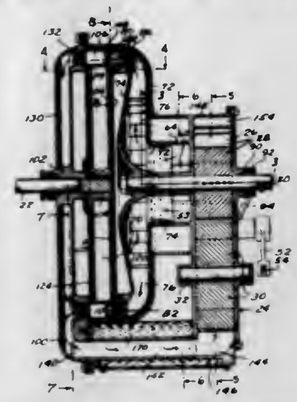
**2,645,086**

## REVERSIBLE HYDRAULIC PUMP AND TURBINE TRANSMISSION

**George H. Carter, Port Washington, N. Y.**

**Application December 16, 1948, Serial No. 65,665**
**8 Claims. (Cl. 60—54)**

6. A fluid transmission comprising a fixed casing having a pump compartment, a driving shaft passing through said compartment, a gear pump in said pump compartment, one element of which is fixed to said driving shaft, a hollow disc-like distributor mounted on said driving shaft, said distributor having spaced walls connected by vanes so as to provide discharge paths inclined in the direction of rotation of the distributor, a casing portion enclosing said distributor, a driven shaft, a turbine disc mounted on said driven shaft and rotating in said casing portion adjacent said distributor, said turbine having blades near the periphery receiving fluid discharged from between the vanes of the distributor, said casing having a



hollow portion adjacent to said turbine, said hollow portion containing fixed guide vanes receiving fluid discharged from between the blades of the turbine and means for conducting the fluid discharged by said guide vanes back to the pump.

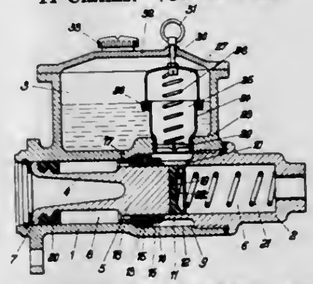
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**2,645,087**

## SKIRT VALVE SYSTEM FOR HYDRAULIC MASTER CYLINDERS

**Bernard Neumann, The Hague, Netherlands**

**Application October 4, 1949, Serial No. 119,458**
**In France October 8, 1948**
**11 Claims. (Cl. 60—54.6)**



7. In a hydraulic brake system, a master cylinder comprising a reserve tank, a first cylinder, means constituting an inlet passage connecting said reserve tank with said first cylinder, a second cylinder, means forming an annular chamber located between said cylinders, means forming a precompression chamber connected with said annular chamber and also forming a delivery passage connecting said annular chamber and said precompression chamber with said first cylinder, interconnected pistons reciprocable within said cylinders, non-return valve means for said inlet passage, and non-return valve means located in said annular chamber for said delivery passage.

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**2,645,088**

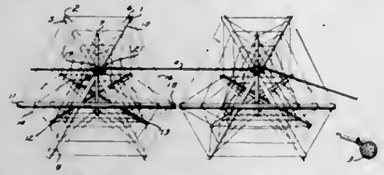
## CONNECTOR FOR JETTY UNITS

**George W. Rehfeld, Manhattan, Kans.**

**Application February 3, 1950, Serial No. 142,298**
**6 Claims. (Cl. 61—4)**

3. A connector of the character described including a pair of rods, one having lateral bends

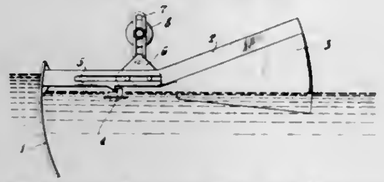
at one end to provide leg portions and a connecting bar portion forming an open side loop offset from the axis of said rod, an eye on one of said leg portions and having a terminal extending through said loop into contact with said bar portion, a hook on an end of the other rod and



adapted to be projected through said eye and connected in hooked engagement with the other of said leg portions, said hook having a terminal projecting from said eye when the hook is engaged with said leg portion and adapted to be bent retractively over said eye to lock said rods together.

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**2,645,089**
**AUTOMATIC GATE**
**Yves Ponsar, Grenoble, France, assignor to Etablissements Neyrpic, Grenoble, France, a corporation of the French Republic**
**Application December 22, 1948, Serial No. 66,788**
**In France December 27, 1947**
**3 Claims. (Cl. 61—25)**

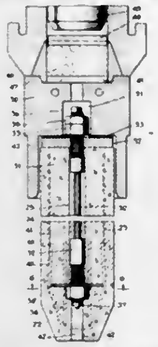


3. Apparatus for controlling the flow of water through a conduit, comprising a flow-controlling gate, means supporting said gate including a lever and means pivotally supporting said lever for rotation about a horizontal axis spaced from said gate through an angle sufficient to open and close said gate, a float connected to said lever to move said gate in accordance with variations in the water level, said lever having a guideway extending lengthwise thereof, a support member adjustably mounted on said lever to allow linear adjustment along said guideway towards and away from said pivot means, said support member being provided with a guideway extending upwardly substantially at right angles to the lever guideway, and a counterweight adjustably mounted on said support member for movement along said upwardly extending guideway.

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**2,645,090**
**REINFORCING OF CONCRETE PILES**
**William P. Kinneman, Westfield, and Warren N. Riker, Tenafly, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey**
**Application February 6, 1951, Serial No. 209,689**
**3 Claims. (Cl. 61—56)**

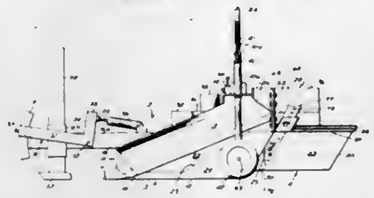
1. In the prestressing and driving of a concrete pile, the combination of method steps which comprises forming an assembly of the pile with a removable reusable high tensile strength prestressing member positioned longitudinally within a bore in the pile, subjecting such member to heavy tension by force reacting against the concrete to subject same to heavy longitudinal compression during placing and driving of the pile, then removing and replacing such member by another member of less strength, and securing



the latter member under heavy tension also reacting against the concrete to retain same under longitudinal compression.

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**2,645,091**
**DITCH FORMING AND LINING IMPLEMENT**
**Cecil H. Palmer, Phoenix, Ariz.**
**Application July 5, 1952, Serial No. 297,339**
**3 Claims. (Cl. 61—63)**



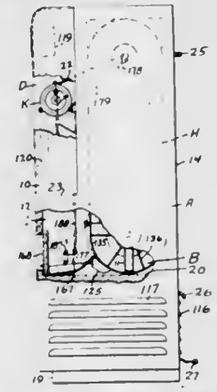
1. A ditch forming and lining implement composed of a plow body having a point, a shoe plate extending horizontally rearward from said point; ditch side forming blades extending upwardly and rearwardly from said point; body side enclosing plates extending from the lateral edges of said shoe plate upward and outward and joining the inner faces of said blades; a downwardly and forwardly slanting rear plate, joining the rear edges of said body side plates and shoe plate, and enclosing the rear of said body; a transverse body member joining the rear portions of the upper edges of said blades; vertically adjustable transverse leveling wheels disposed on the lateral ends of said transverse frame member; a draw bar rigidly attached to the forward portion of said plow body and extending forward therefrom; a vertically adjustable clevis attached to the forward end of said draw bar; a vertically adjustable earth sled attached to the forward portion of said draw bar, adapted to slide on the earth ahead of said plow point; hydraulic mechanism on said plow body for adjusting the vertical positions of said transverse leveling wheels, said clevis, and said earth sled; together with a cement liner and spreader, including a horizontal bottom plate, outwardly slanting side plates, and a forwardly and downwardly slanting front plate, removably attached to the rear of said plow body, in spaced relation to its rear plate, forming a pouring slot between the rear plate of said plow part and the forward plate of said spreader; and a hopper formed over said slot, adapted to receive hydraulic cement and direct it into said slot; the sides and bottom of said spreader being



set inward relative to the side plates and shoe plate of said plow body to define a space within the walls and bottom of a ditch formed by said plow, limiting the thickness of the lining thereof.

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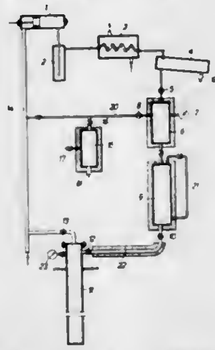
**2,645,092**
**ICE CUBE VENDING MACHINE**
**Robert H. Ridnour, Sioux City, Iowa**
**Application August 2, 1950, Serial No. 177,299**
**3 Claims. (Cl. 62—2)**



1. An ice cube vending machine comprising an outer casing, a chamber in said casing, a plurality of normally collapsed foldable containers in said chamber, means for advancing said containers to a water filling position, whereby said containers will be expanded, refrigerating means for freezing the water in said containers into ice cubes, means for automatically discharging said containers containing said ice cubes thus formed in sequential relation, said water filling means including a plurality of compartments each of which includes a measured water supply consistent with the capacity of each part of said containers, said containers having openings therein wherein said water will flow.

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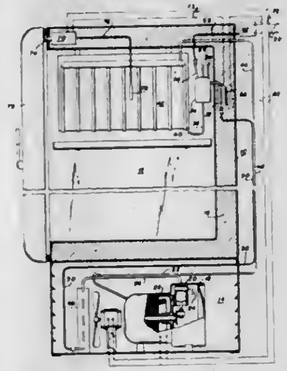
**2,645,093**
**APPARATUS FOR CONGELATION OF GROUND**
**Jean Pierre Daxelhofer, Zurich, Switzerland**
**Application June 21, 1948, Serial No. 34,236**
**In Switzerland June 23, 1947**
**2 Claims. (Cl. 62—3)**



1. Apparatus for the congelation of ground, comprising a compressor for a gaseous carbon dioxide, as refrigerating agent, a condenser for liquefying the compressed gas, an expansion chamber for reducing the pressure of the liquefied gas, a measuring chamber connected to the expansion chamber, refrigerator tubes connected to the measuring chamber, control means for supplying measured quantities of liquefied refrigerating agent to the refrigerator tubes, a suction conduit establishing communication between the refrigerator tubes and the compressor, and a reservoir adapted to contain a supply of solid carbon dioxide and communicating with the refrigerating circuit to compensate losses of the refrigerating agent in the system.

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**2,645,094**
**REFRIGERATION APPARATUS**
**Graham S. McCloy, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 1, 1950, Serial No. 146,960**
**7 Claims. (Cl. 62—4)**



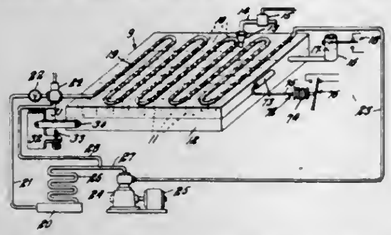
1. In a refrigerator comprising a chamber and refrigerating apparatus, said apparatus comprising a low pressure side including a cooling unit for cooling said chamber and means for periodically defrosting said cooling unit, said means including an accumulator of refrigerant liquid, said apparatus also including a high pressure side for condensing the refrigerant vapor produced in said low pressure side, a pump for transferring refrigerant vapor from the low pressure side to the high pressure side, a temperature-responsive element for controlling said pump, said element being responsive to the temperature of the air in said chamber, and a tubular heat-conducting member having upper and lower ends, the upper end of said member being closed and arranged in heat-transfer relationship with said element and the lower end thereof communicating with said accumulator, the construction and arrangement of said member being such that its conductivity is relatively low when said accumulator is colder than said element and relatively high when said accumulator is warmer than said element.

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**2,645,095**
**AUTOMATIC ICEMAKING MACHINE**
**Clyde E. Ploeger, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware**
**Application May 13, 1950, Serial No. 161,827**
**9 Claims. (Cl. 62—4)**

1. An ice making machine having surfaces on which liquid is frozen and ice released therefrom, means for cleaning said surfaces comprising a

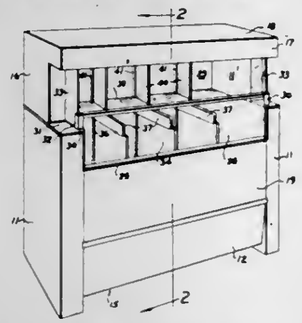
structure cooperating with the surfaces for retaining a cleaning liquid in contact with at least a portion of said surfaces, reciprocating mecha-



nism for actively agitating the cleaning liquid to cause it to continuously contact and bathe the surfaces, and a connection for draining the cleaning liquid from the machine.

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**2,645,096**
**REFRIGERATED DISPLAY CABINET CONSTRUCTION**
**Fred Kuhn, Detroit, Mich.**
**Application August 17, 1951, Serial No. 242,385**
**6 Claims. (Cl. 62—89.5)**



1. In a refrigerated display cabinet including hollow insulated enclosing walls including front, rear, side, top and bottom walls, defining a substantially enclosed refrigerated space, the top horizontal edge of said front wall being downwardly spaced from said top wall permitting access to the interior of said space, a series of upright horizontally spaced rectangularly shaped plates within said space mounted upon said bottom wall and interposed between said front and rear walls defining a plurality of food storage compartments, a rearwardly displaced horizontal shelf arranged above said plates and positioned against said rear wall, and a series of upright horizontally spaced rectangularly shaped plates within said space mounted upon said shelf defining a plurality of additional rearwardly positioned food storage compartments below said top wall.

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**2,645,097**
**THERMAL TOOTH TESTING INSTRUMENT**
**Rudolph A. Posch, Kansas City, Mo., assignor to William F. Teague, Kansas City, Mo.**
**Application November 9, 1950, Serial No. 194,818**
**2 Claims. (Cl. 62—92)**

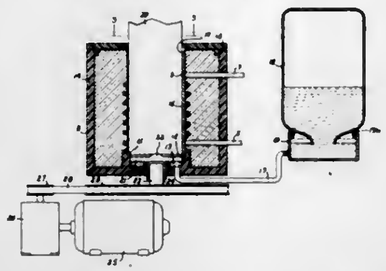
1. A thermal tooth testing instrument comprising, a housing for holding a quantity of expansible refrigerating medium, said housing having passages therein for flow of refrigerating medium from the housing, valve means in the housing having means operative in the passages for obstructing discharge flow of refrigerating medium from the housing, means extending exteriorly of the housing and operatively engaged with the valve means for selectively operating same to effect discharge flow of refrigerating medium from the housing, an elongated tube having one open end and an orifice in the other end, said tube being mounted on the housing with the open end of said tube in communication with a passage in the housing for flow of refrigerating medium through the tube, a second tube concentric with and surrounding the first tube and spaced therefrom, said second tube having one end sealingly secured to the first tube adjacent



the open end thereof, a cap closing the other end of the second tube and forming a chamber at the end of the first tube for receiving discharge of refrigerating medium from the orifice, said second tube having exhaust ports adjacent the end secured to the first tube, and a tip of high thermal conductivity extending from the cap at an angle to the axis of the tubes, said tip having an interior recess extending therein from the chamber whereby discharge of refrigerating medium through the orifice into the expansion chamber and interior recess of the tip permits expansion of the refrigerating medium and effects reduction of the temperature of the tip for contacting a tooth to be tested, said expanded refrigerating medium flowing between the tubes and through the exhaust ports.

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**2,645,098**
**CONTINUOUS ICEMAKING APPARATUS**
**Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application November 16, 1950, Serial No. 196,008**
**10 Claims. (Cl. 62—106)**

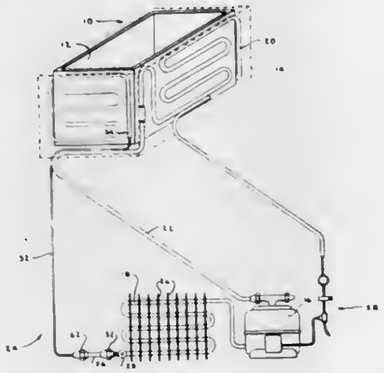


1. Apparatus for continuously producing ice comprising means defining an upwardly extending chamber having an open top, means for continuously supplying water to said chamber at the bottom portion thereof, means for refrigerating said chamber to freeze said water into a column of ice, a rotatable cam disposed near bottom of said chamber and directly and continuously engaging the bottom of said ice column, and means for continuously rotating said cam in the same direction to lift said ice column, said water-supplying means causing water to flow into said chamber below said ice column as said ice column is continuously raised by said cam.



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**2,645,099**
**CAPILLARY TUBE ASSEMBLY FOR REFRIGERATORS**
**Alfred S. Cumming, Detroit, Mich., assignor to Bailey-Perkins, Inc., Detroit, Mich., a corporation of Michigan**
**Application September 29, 1950, Serial No. 187,403**
**2 Claims. (Cl. 62—115)**



1. In a refrigerating apparatus having a compressor, a condenser, an evaporator, and conduit means connecting the evaporator, compressor and condenser in the order named, a capillary tube assembly for conducting liquefied refrigerant from said condenser to said evaporator, said capillary tube assembly comprising an outer tube secured to the inlet of said evaporator, a capillary tube disposed entirely within said outer tube and having one end thereof communicating with said evaporator inlet, a fitting secured to the other end of said capillary tube and having a fluid flow passage therethrough communicating with said capillary tube, means for detachably connecting said fitting to the outlet of said condenser, and means for detachably securing said outer tube to said fitting, said capillary tube being arranged in heat exchange relation with a portion of the conduit means connecting said evaporator and said compressor, said capillary tube being arranged within said outer tube so as to be removable therefrom when said outer tube and said condenser outlet are detached from said fitting.

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**2,645,100**
**LOW TEMPERATURE FOOD STORAGE BOX STRUCTURE WITH MEANS FOR COOLING MACHINERY COMPARTMENT**
**Hugh W. Bascom, Panora, Iowa**
**Application June 5, 1950, Serial No. 166,241**
**2 Claims. (Cl. 62—117.4)**

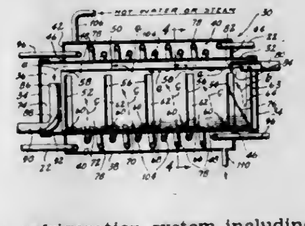
1. A refrigerator cabinet having the air inlet and outlet for the refrigerator compressor positioned at the lower front of the cabinet to facilitate sealing the back and sides of the cabinet to adapt the refrigerator to being recessed in a wall; said cabinet having a passageway formed in its bottom front and extending rearwardly therefrom to a vertical wall; the air inlet and outlet of the refrigerator compressor communicating with the top of said passageway; whereby air for the refrigerator compressor enters and exhausts solely at the front of said refrigerator



cabinet; said passageway serving and appearing to serve solely as a toe receiving hole.

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**2,645,101**
**DEFROSTING ARRANGEMENT IN REFRIGERATION SYSTEM**
**Louis F. La Porte, Rolla, Mo., assignor to Francis L. La Porte, Burlingame, Calif.**
**Application September 25, 1951, Serial No. 248,246**
**13 Claims. (Cl. 62—117.55)**



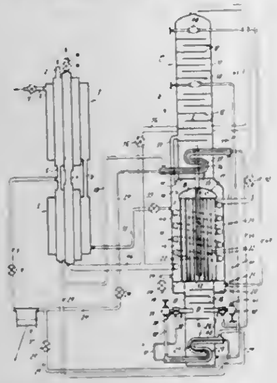
1. In a refrigeration system including a compressor, a condenser, a receiver, an expansion valve, an evaporator, and conduit connections between them for circulating a refrigerant: a combined liquid flow retarding and vaporizing assembly interposed in the conduit connections between the compressor and the evaporator; said assembly including a first or inner cylindrical shell sealed at either end by a closure member to provide an elongated chamber within the shell; a second or outer cylindrical shell of larger diameter concentrically disposed about said first shell and having end walls whereby to provide a sealed annular chamber about the latter shell along the major portion of its length; a metallic insert member positioned in said elongated chamber and having rigidly secured thereto an end plate and a plurality of vertical baffle plates in spaced relation to one another whereby to subdivide said elongated chamber into a plurality of compartments; an orifice formed in each baffle plate in the lowermost region thereof for establishing fluid communication between adjacent compartments; means for introducing refrigerant returning from the evaporator into one of the compartments of said elongated chamber; means provided in the said compartment for preventing extraneous matter in the refrigerant clogging the orifices in the baffle plates; means for heating said elongated chamber by the introduction of a selected fluid medium into said annular chamber and about said inner shell; and means for delivering refrigerant from said chamber to said compressor.

2,645,102
**OIL FLOW CONTROL FOR DRY SUMP PUMPS**
**Raymond L. Dills, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application September 20, 1951, Serial No. 247,413**
**5 Claims. (Cl. 62—117.75)**



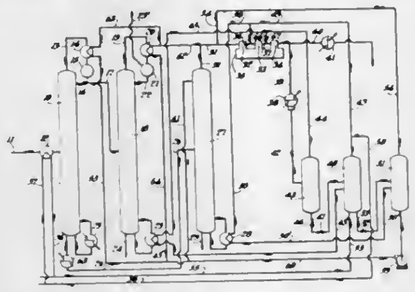
1. In a refrigerating system including an evaporator, a refrigerating unit and a suction line for returning lubricant and refrigerant from said evaporator to said refrigerating unit, a lubricant trap connected in said suction line, said trap being disposed in a region subjected to a temperature at least as high as ambient whereby evaporation of any liquid refrigerant is effected therein, said trap including a housing having an inlet passage and a lateral outlet passage disposed above the normal level of lubricant in said housing, and a pendent baffle within said housing between said inlet passage and said outlet passage and adjacent said outlet passage, the lower end of said baffle being positioned a limited distance above said normal level of lubricant in said housing whereby vaporized refrigerant sweeping by said lower end of said baffle effects metering of lubricant into said outlet passage and to said refrigerating unit.

2,645,103
**APPARATUS FOR SEPARATING THE CONSTITUENTS OF GASEOUS MIXTURES**
**Arthur J. Fausek and Irwing F. Fausek, Clayton, Mo.**
**Application May 2, 1949, Serial No. 90,808**
**3 Claims. (Cl. 62—123)**



1. An apparatus for separating air into its principal component parts comprising a rectification column which is divided into a plurality of separate compartments, a first boiling coil, a second boiling coil, said first and second boiling coils being disposed in different compartments of said column and each of said boiling coils being provided with separate passageways arranged one within the other and adapted for the passage therethrough of separate bodies of air which are in heat exchange relation with each other while passing through said boiling coil, and means for delivering said separate bodies of air to said boiling coils.

2,645,104
**FRACTIONAL DISTILLATION**
**Ludwig Kniel, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware**
**Application February 17, 1951, Serial No. 211,545**
**8 Claims. (Cl. 62—175.5)**



1. The method of recovering the separate components of a hydrocarbon gas mixture containing ethane, ethylene, propane and propylene which comprises fractionally distilling the ethylene and ethane as overhead from said propane and propylene as bottoms in a deethanizer tower, fractionally distilling the ethylene from the ethane in an ethylene tower, fractionally distilling a gaseous propylene overhead from a propane bottoms in a propylene tower, compressing the propylene overhead, reboiling said propylene tower with a first part of the compressed propylene, reboiling said ethylene tower with a second part of the compressed propylene, condensing a part of the compressed propylene, expanding a portion of said condensed propylene, indirectly condensing said deethanizer tower overhead and said ethylene tower overhead with said expanded portion of propylene directly introducing a further portion of propylene condensate, into said propylene tower as reflux, withdrawing a portion of propylene as net propylene product and removing the ethylene product as the overhead from the ethylene tower.

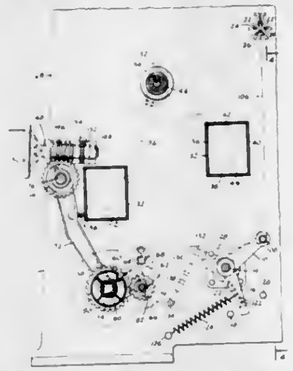
2,645,105
**UNIVERSAL JOINT**
**Noel Phillips Bedson, Southport, England, assignor, by mesne assignments, to Blau-Knox Company, Pittsburgh, Pa., a corporation of Delaware**
**Application March 7, 1949, Serial No. 79,924**
**In Great Britain March 11, 1948**
**3 Claims. (Cl. 64—8)**



1. A universal joint for rolling mill drives and the like, comprising a housing member connectable to one drive shaft and rotatable about an axis therethrough and having an axially extending opening therethrough and a plurality of axially extending grooves indented radially outwardly from said opening, each groove having a flat side surface in a plane parallel to the axis of said housing and having a flat base surface in a plane normal to said side surface and parallel to said axis of the housing, and a spider connectable to another shaft and rotatable about an axis therethrough and having drive means extending into the respective grooves, the drive means in each groove having a peripheral surface axially slidable and rollable against the said base surface of the groove receiving the drive means and cylindrically curved about an axis passing transversely through the said axis of the spider, and each drive means comprising a prong projecting from the spider and a bearing block with a flat surface slidably engaging the said side surface of the groove receiving the drive means and an opposite curved surface slidably engaged by a correspondingly curved surface of the prong, said slidably engaging surfaces of each prong and bearing block being cylindrically curved about an axis tangent to a cylindrical surface which is centered on said axis of the spider and passes generally through said peripheral surfaces of the respective drive means.



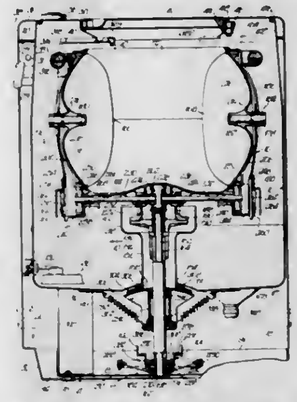
2,645,106
**WARP KNITTING MACHINE**
**Fritz Lambach, Tenafly, N. J., assignor to Robert Reiner, Inc., Weehawken, N. J.**
**Application March 17, 1948, Serial No. 15,320**
**24 Claims. (Cl. 66—149)**



1. In a warp knitting machine, the combination of: a frame comprising a pair of connected end walls spaced from each other, supporting means movably mounted on the frame of the machine, a take-up roller rotatably arranged on said movable supporting means for rotation about a fixed axis, said take-up roller extending longitudinally of the machine and being normally in the space between said end walls of the frame, said supporting means being movable so as to bring said take-up roller from its normal position in the space between said end walls into a temporary position at least partially outside the frame of the machine, a positioning mechanism associated with said movable supporting means for bringing same into alternative positions, and a take-up drive associated with said take-up roller for positively rotating same.

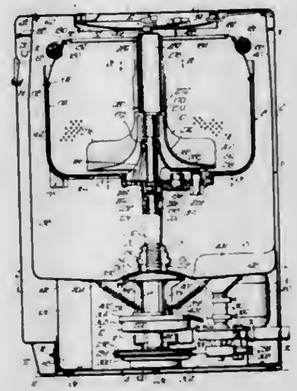
2,645,107
**COMBINED WASHING MACHINE AND CENTRIFUGAL EXTRACTOR**
**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**
**Application December 20, 1948, Serial No. 66,229**
**29 Claims. (Cl. 68—23)**

1. In a washing machine, the combination of a rotatable tub adapted to receive liquid and material to be washed, a source of power, washing means mounted for operation substantially about a horizontal axis within said tub, means operable in one direction by said source of power for operating said washing means for effecting



a washing operation within said tub, and means operable in the reverse direction by said source of power for rotating said tub to extract liquid from the material contained therein.

2,645,108
**COMBINED WASHING MACHINE AND CENTRIFUGAL FLUID EXTRACTOR**
**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**
**Application December 20, 1948, Serial No. 66,230**
**29 Claims. (Cl. 68—23)**



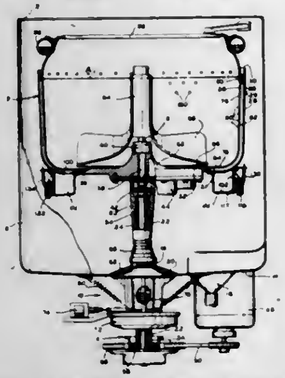
1. A washing machine comprising a rotatable tub having a bottom wall adapted to receive liquid and material to be washed, a washing device disposed within said tub, a vertical downwardly extending supporting shaft, a casing secured intermediate the lower side of said bottom wall and the upper end of said shaft to provide the support for said rotatable tub, a source of power, and means driven by said source of power for operating said washing device and for rotating said tub through said casing, said means including mechanism mounted within said casing for oscillating said washing device when said tub is stationary and rotatable therewith when said tub is rotated.

2,645,109

## SEDIMENT COLLECTING MEANS FOR WASHING MACHINES AND THE LIKE

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

Application March 31, 1951, Serial No. 218,629
12 Claims. (Cl. 68—23)



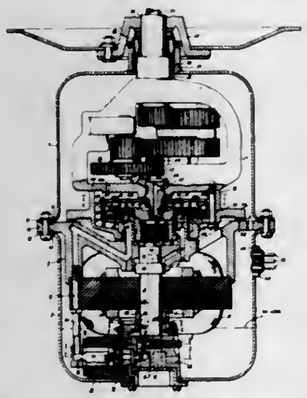
1. A tub for a washing machine adapted to receive liquid and fabrics to be washed and to be rotated about a vertical axis to extract the liquid therefrom, comprising an imperforate receptacle having side and bottom walls, an open-ended perforate container having side and bottom walls disposed within said receptacle, the side and bottom walls of said container and receptacle being spaced apart to define an annular liquid conducting space therebetween, a pair of chambers each having an outlet therein disposed beneath said outer tub and in direct communication with said space, and means for controlling the flow of liquid out of said outlet when the rotation of said tub is below a predetermined speed.

2,645,110

## DRIVE MECHANISM FOR CLOTHES WASHING MACHINES AND THE LIKE

Carl S. Dayton, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application May 17, 1951, Serial No. 226,801
10 Claims. (Cl. 68—23)



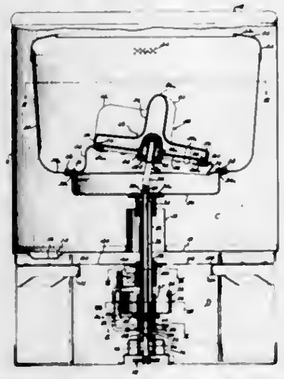
1. In a clothes washing machine having a rotatable clothes basket, the improvement in means for effecting rotation of said basket comprising a drive motor, a shaft driven by said motor, a piston rotatably driven by said shaft, a frame forming a hollow cylinder enclosing said piston and defining between an upper wall of said cylinder and said piston a substantially closed chamber, means connecting said clothes basket to said frame which supports to the basket on the frame, clutch means for releasably connecting said frame to said piston comprising a clutch facing on said piston engageable with a portion of said frame, and a fluid pressure generating system operative to introduce fluid under pressure to said chamber thereby to move said frame and basket as a unit relative to said piston to effect engagement of said clutch means.

2,645,111

## WOBBLE PLATE LAUNDRY MACHINE

George C. Fields, Wilmette, Ill., assignor to Whirlpool Corporation, St. Joseph, Mich., a corporation of New York

Application November 5, 1947, Serial No. 784,135
5 Claims. (Cl. 68—23)



5. A washer comprising: a supporting means, a basket mounted on said supporting means, a shaft mounted concentrically with said basket and with one end thereof extending into said basket, said end being provided with an inclined bearing, an agitator journalled on said bearing within said basket, said agitator being fastened and sealed to said basket by a deformable ring whereby said agitator is free to wobble relative to said basket, and means for rotating said shaft relative to said agitator.

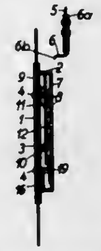
2,645,112

## LOCK FOR CONTAINERS

Anton Kraus, Vienna, Austria

Application April 20, 1950, Serial No. 156,974
In Austria May 11, 1949
7 Claims. (Cl. 70—67)

1. A lock for a container comprising, a front plate the rear surface of which defines a recess, a longitudinal slot in said front plate for guiding a keeper having side lugs, a plurality of catches provided at side edges of said slot and adapted to engage with said side lugs, a base plate fitting into said recess and pins attached to its top face, a locking plate having bores therethrough and being provided behind the catches, means for guiding the locking plate for movement parallel to the longitudinal direction of said slot between two extreme longitudinal positions and normal to the base plate, said pins and bores being so related as to size and position that the pins will extend through said bores when the locking plate is in one extreme longitudinal position and is depressed, while such depression of the locking plate, when in any other longitudinal position, is prevented by the pins being out of alignment with said bores and engaging the bottom surface of said locking plate, a key engaging lug on said locking plate, two locking notches in said key engaging lug spaced from each other in the longitudinal direction of the slot, a bolt having an



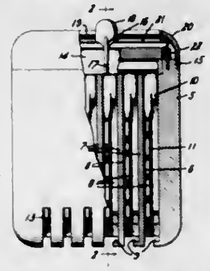
upright lug adapted to engage with either of the locking notches, depending on whether the locking plate is in one or the other of its extreme longitudinal positions, means for preventing the bolt from movement in a direction parallel to the longitudinal direction of the slot, a return spring for urging the upright lug into engagement with the respective notch with which it is in register, and resilient means for urging the locking plate against the catches.

2,645,113

## KEY CASE AND KEY THEREFOR

Homer N. Olsen, Ogden, Utah

Application August 26, 1949, Serial No. 112,625
11 Claims. (Cl. 70—456)



6. In combination, a key case comprising a casing having a plurality of key channels therein open at one end thereof, a longitudinal rib projecting into said channel, a key member being formed at least in part of magnetic material and freely slidable in each of said channels and adapted to be housed therein, a substantially circular bearing lug carried by each of said key members at the head end thereof and having a cut away portion adapted to seat said rib, means providing an arcuate bearing wall at the open end of each of said channels for receiving and retaining said lugs when the key members are shifted to projected position, said ribs terminating short of said bearing walls to permit rotation of said bearing lugs on said arcuate bearing walls when the cutaway portion of said bearing lugs clears the end of said ribs, a magnet mounted in said casing adjacent the other end of said channels to releasably retain the keys therein by magnetic attraction and means for selectively releasing the keys from engagement with the magnet, comprising a depressible spring retracted ejector member slidably mounted in said casing and adapted to be aligned with a selected key to be released.

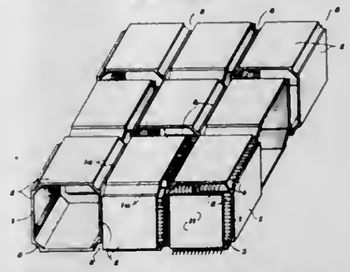


2,645,114

## HOLLOW STRUCTURE

Arsham Amirikian, Chevy Chase, Md.

Application October 18, 1945, Serial No. 623,160
6 Claims. (Cl. 72—42)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a structure comprising a plurality of substantially hollow tubular boxes of the same dimensions and each having four rectangular main side walls, with said plurality of boxes being disposed in a group in a common plane with means connecting them together, and said plurality of hollow tubular boxes including boxes which are disposed diagonally adjacent to each other in said group, said structure having a substantially rectangular interior wall extending therethrough and comprising a row of rectangular main side walls of diagonally adjacent boxes disposed in rectilinear alignment side edge opposite to side edge and having a common central plane, said connecting means connecting together said opposite side edges of said rectilinearly aligned rectangular main side walls of said row, said structure having a second substantially rectangular interior wall extending therethrough transversely to and intersecting said first-mentioned rectangular interior wall of the structure and comprising a second row of rectangular main side walls of diagonally adjacent boxes disposed in rectilinear alignment side edge opposite to side edge and having a common central plane, said connecting means connecting together said opposite side edges of said rectilinearly aligned rectangular main side walls of said second row, said mutually transverse intersecting substantially rectangular interior walls of the structure each being substantially of the single wall thickness of its component aligned main side walls of the boxes and providing lightness with strength in the structure.

2,645,115

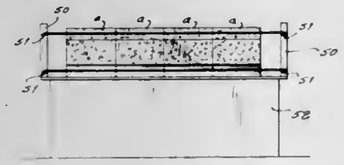
## COMPOSITE STRUCTURAL MEMBER AND IN THE MANUFACTURE THEREOF

Paul William Abeles, London, England

Original application February 25, 1943, Serial No. 477,118. Divided and this application June 26, 1947, Serial No. 757,252. In Great Britain March 3, 1942
10 Claims. (Cl. 72—61)

3. A composite structural unit comprising in combination an elongated assembly of a plurality of blocks, said elongated block assembly provided in its external surface with at least

one continuous groove extending in longitudinal direction of said elongated block assembly and having a cross-sectional area being a fraction only of the cross-sectional area of the finished composite structural unit; at least one prestressed metal tie member disposed in said continuous groove near the external surface of said elongated block assembly and being under an effective tension of at least 20,000 lbs. per square inch; and an adhesive arranged in said continuous groove forming an elongated bonding member adhering both to said blocks and said prestressed metal tie member, transmitting tension created by said prestressed metal tie member as compression to said blocks so as to force the same toward each other.



9. Method of manufacturing composite structural units comprising in combination the steps of assembling a plurality of blocks each of which is provided in its external surface with a groove, said blocks being assembled in such a manner that said grooves are aligned in longitudinal direction of the block assembly; placing a thin metal tie member in said aligned grooves of said block assembly; anchoring said thin metal tie member to independent anchorages provided beyond the ends of said block assembly so that said block assembly is free of compression by said anchorages; tensioning said thin metal tie member against said independent anchorages so that the tensioning stress in said metal tie member is substantially uniform over the entire length between said independent anchorages and in excess of 20,000 lbs. per square inch; arranging an adhesive filler in said aligned grooves of said block assembly while maintaining said tensioning stress applied to said metal tie member so that said adhesive filler is allowed to harden and to firmly adhere both to said blocks and said metal tie member while said metal tie member is under prestress, forming thereby a firm bond between the tensioned metal tie member and each of said blocks; releasing thereafter the tension at at least one of said independent anchorages; and severing said metal tie member between said independent anchorages and said block assembly.

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2,645,116

**COMBINATION BATH SPRAY DEVICE AND TEMPERATURE INDICATOR**

**William C. Baxter, Rochester, N. Y., assignor to Trimble, Inc., Rochester, N. Y., a corporation of New York**

**Application February 27, 1951, Serial No. 213,024**
**2 Claims. (Cl. 73—343)**

1. A hollow spray head of yieldable resilient material having a transverse wall adjacent to its inner end terminating in an elongated neck arranged centrally of said wall and having a water inlet opening extending therethrough, the outer end of said neck being connectible to a water hose, a handle comprising a rigid transparent elongated sleeve carried by said head surrounding and spaced from said neck and water hose, said sleeve extending a substantial distance along the water hose and affording between the hose and said sleeve a well of a length and width sufficient to house a thermometer tube, and a spray plate secured at the outer end of the head, said hollow spray head including a chamber between the spray plate and the water inlet opening and said transverse wall having an enlargement projecting into said chamber with a thermometer-receiving opening extending through said enlargement and transverse wall whereby a thermometer may be located with its bulb in said chamber and its tube arranged in said well between said water hose and said elongated sleeve and parallel thereto.



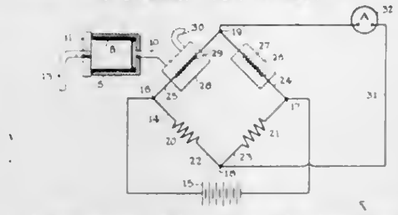
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2,645,117

**LEAK DETECTOR FOR CANS AND THE LIKE**

**Gordon H. Bendix, Park Ridge, and Calvin R. Breden, La Grange, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York**

**Application December 30, 1948, Serial No. 68,225**
**5 Claims. (Cl. 73—40)**



1. A device for detecting gas leakage from cans and the like comprising a receptacle for holding the can to be tested, a common closure for both the receptacle and the can, an inlet through the closure for air under pressure, means providing a discharge passageway from the receptacle, a pair of identical closed compartments, each having a resistance wire connected in parallel to an electric circuit, each of said compartments having an unrestricted vent to the atmosphere and one compartment being also connected with the discharge passageway, and means for indicating the differential current flow in the compartments caused by leakage through the discharge passageway and connected compartment.

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2,645,118

**POWER-TIME RECORDER**

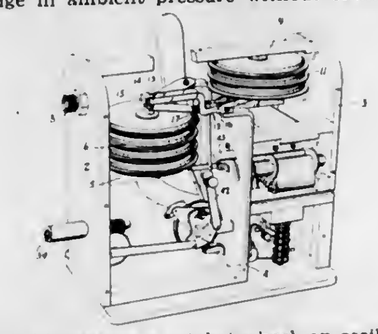
**John H. Andresen, Jr., Port Washington, N. Y., assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y., a corporation of New York**

**Application May 8, 1947, Serial No. 746,756**
**1 Claim. (Cl. 73—116)**

In a power-time recorder for internal combustion engines, a diaphragm capsule adapted to be



connected to the engine manifold so that the internal pressure of the capsule corresponds to the engine manifold pressure, the outside of the capsule being acted upon by the pressure of the ambient air, an aneroid capsule responsive to ambient pressure, said aneroid capsule being mounted for expansion in the opposite sense as said diaphragm capsule, a member bridging the free ends of said diaphragm and aneroid capsules, said member being moved in opposite directions substantially normal to the longitudinal axis of said member by said capsules at opposite ends thereof, said member rotating about a point on said longitudinal axis determined by the relative movement of said capsules, said point on said member remaining substantially stationary upon change in ambient pressure without change in manifold pressure, a ratchet wheel, an oscillating pawl engaging said ratchet wheel to effect step by step rotation thereof, means responsive to engine speed for effecting oscillation of said pawl at a frequency proportional to engine speed, a sector adjustable with respect to said pawl for varying the angle within which the pawl engages said ratchet wheel during each oscillation of said pawl, an arm interconnecting said bridging member and said sector to adjust said sector in accordance with variation in manifold pressure and ambient air pressure including means for adjustably connecting said arm with said bridging member at varying distances from said point, and a totalizer registering the revolutions of the ratchet wheel to indicate the power-time service of the engine.



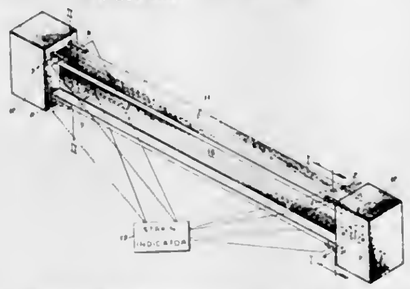
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2,645,119

**TORQUEMETER BASED ON WARPING STRESS MEASUREMENT**

**Benjamin J. Aleck, Brooklyn, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware**

**Application July 22, 1950, Serial No. 175,413**
**4 Claims. (Cl. 73—133)**



1. A torque or force meter comprising a torque bar having a central open I-shaped cross section between more substantial end sections and with flanges extending symmetrically about the centroidal axis, pairs of electrical strain gages installed symmetrically at the outer dimensions of said flanges adjacent said sections, and means for combining the readings of said gages to obtain indications proportional to the torque and forces applied to said bar, comprising a Wheatstone bridge.

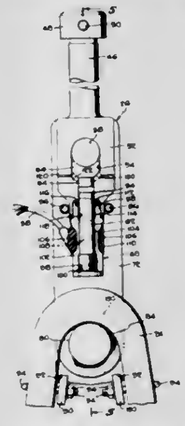
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2,645,120

**SWIVEL BAIL ADAPTER WEIGHT SENSING DEVICE**

**Lyle B. Scott, South Gate, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware**

**Application April 29, 1949, Serial No. 90,415**
**13 Claims. (Cl. 73—141)**



1. Load supporting and sensing apparatus comprising: an upper support member; a lower load-carrying member including a pair of transverse extensions; an intermediate load-transferring member comprising a pair of spaced tension elements connected adjacent their upper ends to said support member and having openings adjacent their lower ends adapted to receive said extensions; and a pair of load-responsive devices each having an element on which are mounted bonded wire resistance elements for sensing the load imposed upon said devices, each of said devices being operatively interposed between a respective tension element and a respective extension on said load-carrying member whereby said devices are adapted to normally maintain the lower surfaces of said extensions spaced from the lower surfaces of said openings in said tension elements to thereby cause said devices to assume the load sustained by said load-carrying member, said surfaces being adapted to interengage and transfer the load directly therebetween independently of said load responsive devices in the event of structural failure of said devices.

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2,645,121

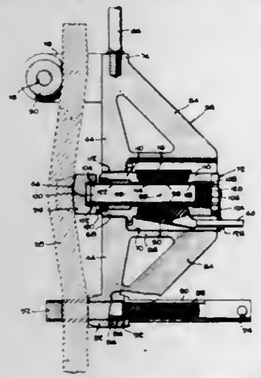
**WEIGHT SENSING DEVICE**

**Lyle B. Scott, South Gate, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware**

**Application April 29, 1949, Serial No. 90,414**
**13 Claims. (Cl. 73—144)**

1. A weight sensing device comprising a frame; a cylindrical member secured at one end to said frame and including a gauge section of

diminished cross-section mounting bonded wire resistance elements; and a plunger member coaxial to said cylindrical member and secured at one end to the other end of said cylindrical member, said plunger member being adapted to



be subjected to axially compressive strain by a load directed against its other end so as to produce a uniform tensile strain within said gauge section proportional to said load and sensed by said elements.

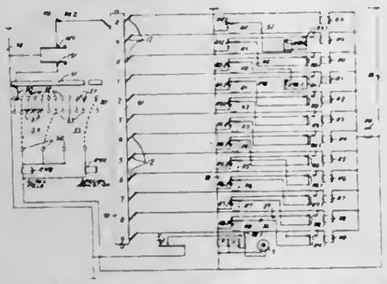
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2,645,122

## MACHINE FOR VERIFYING AND CHECKING PERFORATED RECORDS

**Donald R. Platt and Fred B. Porterfield, Endicott, and Carl D. Hicks, Vestal, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Application July 26, 1950, Serial No. 175,924**
**3 Claims. (Cl. 73—156)**



1. In a machine for determining whether punched holes or the like have been improperly made at index point positions according to two different codes, the combination of means for sensing said card holes, a plurality of relays, one for each index point position, means for energizing said relays according to the sensed holes, an error indicating circuit, contacts operated by each of said relays, means for interconnecting said contacts in such manner that contacts operated by a pair of relays which are energized when two holes are sensed in a column are jointly effective to complete said error indicating circuit to indicate a non-conformity to one code, and means for dividing said relays and associated contacts into two independently functioning groups for preventing the contacts operated by the energization of one relay in one group and one relay in the other group from being effective to complete said error indicating circuit, and for causing the contacts operated by two relays in either of said groups to be jointly effective to complete said error detecting circuit to indicate a non-conformity with another code.

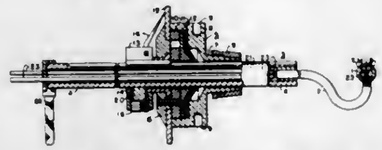
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2,645,123

## DIRECTION AND VELOCITY MEASURING INSTRUMENT

**Richard L. Hundstad, Pittsburgh, Pa.**

**Application January 12, 1949, Serial No. 70,438**
**13 Claims. (Cl. 73—189)**



1. A device for measuring the velocity and direction of flow of a stream of fluid comprising a probe that may be inserted into the stream of fluid and rotated about its own axis, a body the surface of which is a surface of revolution of a smoothly curved line, said body being mounted at an end of the probe with its axis of revolution generally in line with the axis of the probe, said body having a plurality of openings through its surface, said openings having different locations longitudinally along said axis of revolution, and means providing conduits from said openings for obtaining a measure of the pressure at each of the openings as the probe is rotated, the orientations at which certain pressure relations exist and the pressures observed being indicative of the velocity and direction of flow of the stream of fluid.

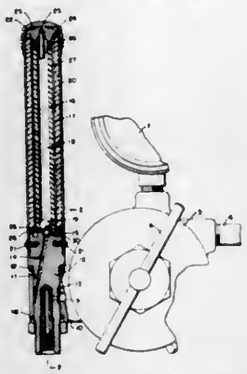
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2,645,124

## FLOWMETER FOR GASES

**John S. Senesky, Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York**

**Application May 19, 1949, Serial No. 94,121**
**2 Claims. (Cl. 73—209)**



1. In a flow meter of the variable orifice type capable of measuring the rate of flow of gases including vertical tubular means and a cooperating float element located therein to provide a variable orifice, said flow meter having inlet and outlet passages, an elongated member secured to the flow meter to support said flow meter, said elongated member having a gas inlet passage and a gas outlet passage connected respectively to the inlet and outlet passages of said flow meter, a portion of the outlet passage in said elongated member being threaded, said member further having a by-pass passage connecting the inlet and outlet passages therein, and a plug disposed in the outlet passage of the elongated member having an outer threaded portion whereby said plug may be threaded inwardly and outwardly in said passage to close or open said by-pass passage, said plug having an opening extending longitudinally therethrough and forming a part of the gas outlet passage in said elongated member.



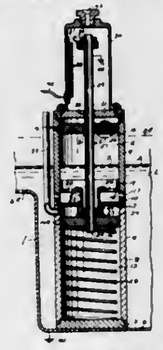
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2,645,125

## LIQUID LEVEL INDICATING INSTRUMENT

**Alfred A. Miller, Cleveland, Ohio**

**Application February 13, 1950, Serial No. 143,933**
**4 Claims. (Cl. 73—290)**



1. An instrument for indicating the level of liquid in a container, comprising: an elongated tubular housing for projection downwardly into liquid in the container, and having an upright position of use and having an intermediate transverse partition therein, providing an upper and a lower piston chamber; upper and lower pistons in the chambers respectively; the lower chamber being closed and being contractible and expansible upon movements of the lower piston therein; a port through the wall of the upper chamber communicating with liquid in the container adjacent to the partition; a piston valve in the upper chamber movable to open and close the port; an upper housing above the upper chamber; a tube open at both ends extending through the partition and through the piston valve and through both pistons and connected to both pistons, and sealed upon the piston valve and at its lower end opening into the lower chamber and its upper end opening into the housing; a spring in the lower chamber normally holding the pistons and tube in an upper position; an abutment on the piston valve extending through the partition and engaged by the lower piston by which the piston valve is normally held in port open position; a valve spring tending to move the abutment to move the piston valve to close the port; means for introducing vacuum into the upper housing and thence through the tube to the lower chamber to move the lower piston downwardly to cause it to disengage the abutment, to render the valve spring effective to move the piston valve to port closing position and to cause the lower piston to communicate downward movement to the upper piston and the tube connected therewith; an escape port through the upper piston; a float valve for closing the escape port having a float on the underside of the upper piston; an electric controller in the upper housing operated by movement of the tube therein; and circuit connections from the controller through the wall of the upper housing to an electric indicating gage.

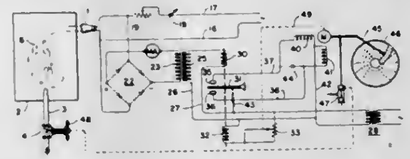
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2,645,126

## TEMPERATURE MEASURING APPARATUS

**Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware**

**Application December 13, 1947, Serial No. 791,496**
**3 Claims. (Cl. 73—355)**



1. A bolometer to look at a source of thermal radiation and be responsive to the magnitude thereof, comprising in combination, a housing including a paraboloidal section having an inner reflecting surface and a window section sealed to the rim of the first section, means in said housing reducing the thermal conductivity therein substantially below that of air at atmospheric pressure, a radiation receiving target of small dimensions along the axis of the first section concentrated at and adjacent the focal center of the reflecting surface in the plane of the latus rectum thereof, said target comprising a sheet of metal the magnetic permeability of which varies widely with temperature, a U-shaped rod of metal the magnetic permeability of which varies little with temperature, the base of said U being outside the first housing section and the legs extending in a gas tight manner therethrough and being secured to said target metal to support it and form a closed magnetic core, and a multiturn induction coil mounted on said core and subject to change in reactance as the permeability of said target changes with temperature.

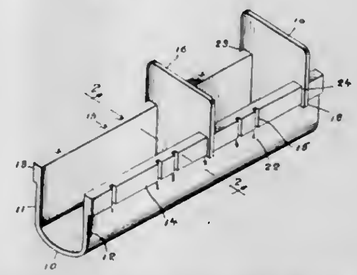
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2,645,127

## SHORTENING MEASURE

**Vergil R. Parks, Sierra Madre, Calif.**

**Application August 20, 1951, Serial No. 242,764**
**1 Claim. (Cl. 73—429)**



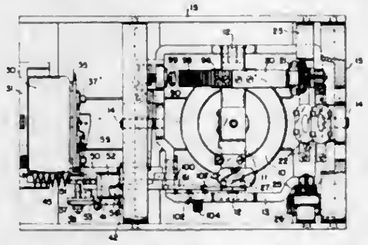
In a measuring device, the combination which comprises an elongated trough U-shaped in cross section having an arcuate base with upwardly extended arms and having beads with spaced vertically positioned slots therein on the upper outer edges of the arms, and partitions having tongues shaped to correspond with the inner surface of the trough and arms positioned to extend into the vertically positioned slots of the beads of the side walls of the trough with the tongue nested in the trough.

**2,645,128**
## APPARATUS FOR MEASURING WATER PRESSURES IN EARTH EMBANKMENTS
**Harold N. Walker, Portland, and John L. Pulli, Gladstone, Oreg.**
**Application February 9, 1951, Serial No. 210,269**
**3 Claims. (Cl. 73—432)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In pressure-measuring apparatus for measuring pressures of water seeping into an earth-fill dam through the faces of the dam, a pressure cell including a tubular housing having a forward end and a rear end, a porous, corrosion-resisting filter means mounted in the forward end of the housing and defining a water-permeable closure for the forward end of the housing for preventing entry of water-borne silt into the housing while permitting passage of seeping water into the housing, means dividing the housing interiorly into two compartments, one of the said compartments being a forward compartment for receiving water passing through the filter, the other compartment being a gas-receiving compartment, a corrugated resilient bellows mounted in the housing and having an open end directed towards the liquid-receiving compartment and communicating therewith and also having a closed end extending into the gas-receiving compartment, corrosion-resisting sealing means enclosing the said bellows and peripherally sealing the bellows at its open end to the housing for preventing passage of liquid from the forward liquid-receiving compartment into the rear gas-receiving compartment while permitting expansion of the bellows into the said rear gas-receiving compartment under pressure of water within the bellows and against the closed end thereof, an electrical contact fixedly mounted on the closed end of the bellows exteriorly thereof, a second fixed contact mounted in the gas-receiving compartment for engagement with the contact on the bellows responsively to movement thereof in accordance with expansion of the bellows, insulating mounting means rigidly securing the said fixed contact in aligned position relative to the bellows contact, the said insulating mounting means having gas-admitting openings therethrough, means for admitting an inert, dehydrated gas into the gas-receiving compartment and against the closed end of the bellows for counterbalancing liquid pressure in the bellows for normally retaining the said contacts in open relation, electrical conducting means connected to the fixedly mounted contact, a source of current, means for completing an electrical circuit including the contacts in the housing and source of current whenever liquid pressure within the bellows exceeds opposing gas pressure acting against the bellows in opposition to the liquid pressure for closing the contact on the bellows and the said fixed contacts, signal means in the said electrical circuit actuatable responsively to the closing of the said contacts, and soldered sealing means exterior of the housing and enclosing the said housing for preventing access of extraneous materials from the gas-receiving compartment.

**2,645,129**
## GYROSCOPE CAGING MECHANISM
**Harry L. Brown, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application January 2, 1952, Serial No. 264,558**
**19 Claims. (Cl. 74—5.1)**

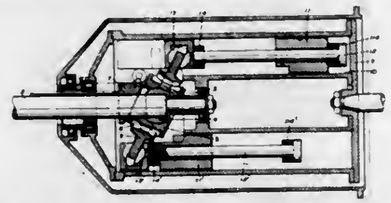


1. In a gyroscopic device having a rotor mounted on inner and outer gimbals to provide for two mutually perpendicular displacement axes of said gyroscope, a centering and caging apparatus including cam means on each of said gimbals and brake means mounted in part on said inner gimbal and in part on said outer gimbal, means including said cam means on said outer gimbal for applying a torque to said outer gimbal to rotate said outer gimbal toward a predetermined position and lock said outer gimbal in said predetermined position, means including said brake means operatively connected to said first named means for restricting movement of said inner gimbal simultaneously with the operation of said first named means to destroy spatial rigidity of said gyroscope and to terminate the restriction of movement of said inner gimbal simultaneously with the locking of said outer gimbal in said predetermined position, means including said cam means on said inner gimbal for applying a torque to said inner gimbal to rotate said inner gimbal into a predetermined relationship with said outer gimbal and lock said inner gimbal in said relationship with said outer gimbal, and means including said first and third named means for simultaneously releasing said gimbals from their locked positions.

**2,645,130**
## TORQUE CONVERTER
**William Adin Chamberlain, Whatstandwell, near Matlock, and Eric Harold George Aram, Nuthall, England**
**Application June 21, 1950, Serial No. 169,485**
**In Great Britain June 23, 1949**
**7 Claims. (Cl. 74—64)**

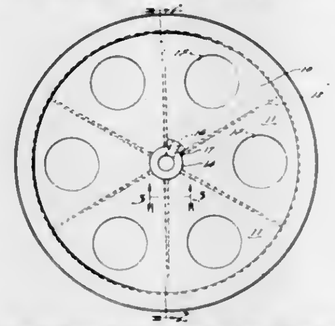
1. A torque converter comprising, in combination, a driving shaft; a driven shaft mounted coaxially with said driving shaft and being spaced therefrom; fly wheel means mounted for rotation about the axis of said driving shaft and being connected to the latter so as to rotate therewith; bearing means interconnecting said fly wheel means and said driven shaft so that the latter may rotate at a different speed than the former; a plurality of elongated guide means each having opposite ends and being connected to said fly wheel means so as to rotate therewith, said plurality of guide means being equally spaced from each other and being symmetrically mounted about and parallel to the axis of said driving shaft; a plurality of weight means operatively connected to said guide means, respectively, for





free reciprocating movement along said guide means between said ends thereof in a direction parallel to the axis of said driving shaft; and limiting means associated only with said ends of said guide means for limiting the free movement of said weight means only when the latter are adjacent said ends of said guide means.

**2,645,131**
## V GROOVE SHEAVE
**David Tann, Detroit, Mich.**
**Application April 6, 1949, Serial No. 85,834**
**3 Claims. (Cl. 74—230.05)**



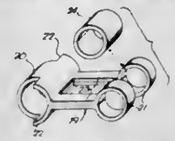
1. A cast sheave comprising a crowned web portion, a circular V groove on the periphery of the crowned web portion, a hub member on the crowned web portion located on the center of the circular V groove, and rib members extending from said hub member to said V groove along the inner periphery of the crowned web portion, the center of the crowned web portion lying substantially in a plane defined by the outer edge at one side of the V groove.

**2,645,132**
## REINFORCED POWER TRANSMISSION BELT
**Theodor F. E. Fuchslocher, Van Nuys, Calif.**
**Application November 27, 1948, Serial No. 62,332**
**8 Claims. (Cl. 74—234)**



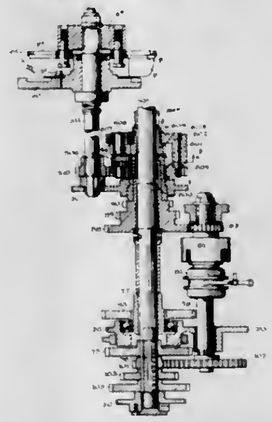
1. A reinforced power transmission belt consisting of a belt body of flexible material, in V-shape in cross section with a central top ridge along its top to form angle spaces at opposite sides thereof, a chain having its opposite sides along said angle spaces with its cross bars through said top ridge portion.

**2,645,133**
## CHAIN LINK
**Vernon J. David, Durham, Kans.**
**Application March 7, 1949, Serial No. 100,034**
**6 Claims. (Cl. 74—250)**



1. In a chain link of the type having a single hollow cylindrical knuckle located centrally of the front end of the link and a pair of laterally-spaced hollow cylindrical knuckles on the other end of the link, the improvement comprising integral lateral extensions on either side of said single knuckle, said extensions being forwardly directed and of arcuate configuration, said extensions and single knuckle having flush inner surfaces, said single knuckle having an inside diameter greater than the inside diameters of said laterally-spaced knuckles, a sleeve rotatable in said single knuckle and substantially coextensive in length therewith, and said sleeve and laterally-spaced knuckles having substantially identical inside diameters.

**2,645,134**
## FEED AND TRAVERSE MECHANISM FOR AUTOMATIC TURRET LATHES
**William H. Feeney, East Providence, and Gordon W. Smithson, Pawtucket, R. I., assignors to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey**
**Application July 14, 1950, Serial No. 173,826**
**4 Claims. (Cl. 74—675)**

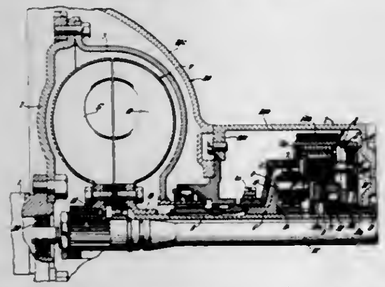


1. In a machine having a driven shaft, an electric motor positively connected with said shaft to drive the same at a relatively high rate of speed when said motor is energized, a rotatable element mounted about said shaft and constantly driven at a lower rate of speed and having a sun gear fast thereon, a second sun gear keyed to

the shaft, a cage rotatably embracing said sun gears and having journalled therein at least one pair of planet gears fast with respect to each other and one of said planet gears meshing one of said sun gears respectively, and an operable brake device in braking association with said cage, whereby, when said brake is released, motion from said rotatable element on the shaft is not imparted to the latter and motion from said electric motor may be applied, when said motor is energized, and, when said brake is applied and said motor is de-energized, motion from said constantly rotatable element on said shaft may be imparted to said shaft and, when said motor is de-energized and said brake released, all drive to said shaft is removed therefrom.

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**2,645,135**
**TRANSMISSION AND CONTROL**
**Mark H. Frank, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application April 18, 1950, Serial No. 156,559**
**11 Claims. (Cl. 74—682)**

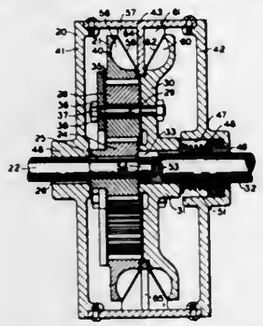


1. In a power transmission, an engine shaft and an output shaft, a first planetary gear unit comprising a ring gear directly coupled to said engine shaft, a reaction sun gear and a drum, a one-way brake for preventing backward rotation of said sun gear and drum and for permitting forward rotation thereof, a planet carrier, planet gears mounted for rotation on said carrier and meshing with said sun and ring gears, means for clutching said planet carrier and drum for transmitting drive through said unit at unitary speed, a second brake selectively operable for preventing any rotation of said drum and sun gear irrespective of the action of said one-way brake, a second planetary gear unit having its input coupled to the output of said first planetary gear unit and its output coupled to said output shaft, a fluid pressure source, valve means for selectively coupling said second brake and said clutch to said fluid pressure source, and additional valve means selectively operable by preventing actuation of said second brake irrespective of the setting of said first-mentioned valve means.

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**2,645,136**
**TRANSMISSION MECHANISM**
**Benjamin T. Neal, Columbus, Ohio**
**Application February 11, 1950, Serial No. 143,787.**
**5 Claims. (Cl. 74—688)**

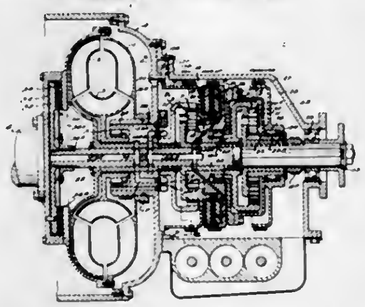
1. A power transmission mechanism, comprising in combination, an element forming a housing containing liquid; planetary gearing in the housing including a sun gear element, a ring gear element, a rotatable planetary gear carrier and a planetary gear element rotatably carried by the carrier connecting the sun and ring gear elements; a shaft connected with the sun gear and housing elements for rotation therewith; a shaft connected with the planetary gear carrier; and juxtaposed sets of blades within the housing



and rotatable in the liquid, one of said sets of blades being connected for rotation by one of said elements and the other being connected with the gear carrier.

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**2,645,137**
**AUTOMATIC TRANSMISSION**
**Clifton R. Roche, Los Angeles, Calif.**
**Application May 16, 1947, Serial No. 748,382**
**41 Claims. (Cl. 74—732)**



1. In a transmission construction, a front planetary gear set, a rear planetary gear set, each gear set having an outer gear, an inner gear, planetary gears, and a carrier for the planetary gears, means to transmit a drive to the outer gear of the front set, releasable means for holding the inner gears of both sets against backward rotation, means connecting the carrier of the front set to the outer gear of the rear set, means to take a drive from the carrier of the rear set, overrunning means connecting the inner gears of the two sets together for backward drive of the inner gear of the rear set by the inner gear of the front set, and for forward drive of the inner gear of the front set by the inner gear of the rear set only, and means for holding the carrier of the front set and the outer gear of the rear set against undesired rotation.

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**2,645,138**
**DRILL BIT FORGING MACHINE**
**Albert W. Mitchhart, Tiffin, Ohio**
**Application April 25, 1949, Serial No. 89,478**
**10 Claims. (Cl. 76—5)**

1. A forging tool having a reciprocating hammer comprising an anvil, means pivotally mounting the anvil so that the positions of said anvil



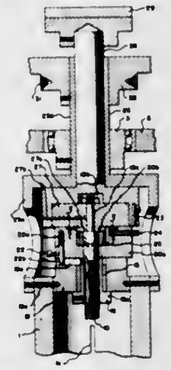
can be adjusted in relation to the hammer, a cylinder, a hammer piston in the cylinder having a piston rod on which the hammer is carried, a head piston positioned in the cylinder and having a piston rod extended from the end of the cylinder, an eccentric to which the piston rod of the said head piston is connected, power means for actuating the eccentric, a valve communicating



with the intermediate part of the cylinder for controlling the pressure and volume of air in the cylinder between the pistons, balancing valves in communication with the former valve and check valves in communication with the balancing valves for adjusting the stroke and force of the hammer piston, and means for actuating the valve for controlling the pressure and volume of air in the cylinder between the pistons.

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**2,645,139**
**PORTABLE BORING MILL**
**Max Beauloye, Henry Beauloye, Jr., and Alfred F. Beauloye, San Diego, Calif.**
**Application December 27, 1949, Serial No. 135,264**
**8 Claims. (Cl. 77—2)**

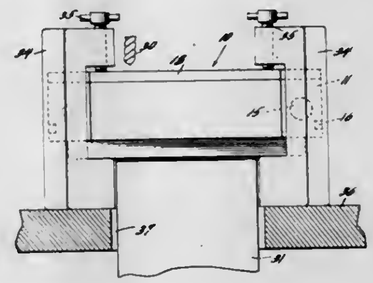


1. In a portable boring mill, a boring bar, bearings rotatably supporting said boring bar at each of its ends, a tool carriage longitudinally slidably mounted on said bar, said bar provided with a slot in its side wall, a key fixed to said carriage extending through said slot, a nut on the inner end of said key, a lead screw threadably engaged with said nut internally of said bar, a stationary cam, an eccentrically oscillating gear holder engaging said cam, an internal spur gear in said gear holder, and a second gear of smaller diameter in mesh with said internal spur gear and fixed to said lead screw.

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**2,645,140**
**DRILL JIG**
**Emil E. Meilstrup, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application December 20, 1950, Serial No. 201,757**
**10 Claims. (Cl. 77—62)**

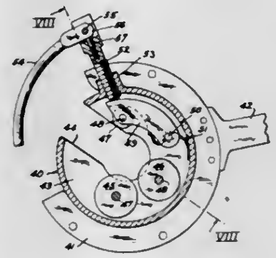
1. In a jig for locating points to be drilled in a flange of a hollow wave guide with respect to the internal contours of the wave guide, a base, a template secured to said base, a first guide block slidably and partially positioned within the base, a second guide block slidably mounted to said first guide block and partially positioned within said base, said guide blocks contacting



edges of the internal walls of the wave guide to orient said template with respect to the flanges of the wave guide, and means to move the base relative to said guide blocks and into contact with the flange of the wave guide to lock said template in its oriented position.

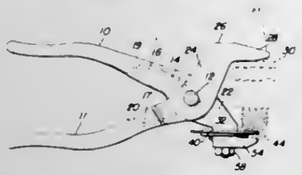
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**2,645,141**
**DEVICE FOR CRIMPING CABLE CONNECTORS**
**Felix M. Anthony and Harry S. Anthony, Piedmont, Calif.; said Harry S. Anthony assignor to said Felix M. Anthony**
**Application December 2, 1950, Serial No. 198,874**
**2 Claims. (Cl. 81—15)**



1. A device for crimping tubular articles which comprises an annular housing with a radial opening to admit an article to its center, rollers carried by the housing to engage and crimp an article, a lever pivoted in the housing and carrying one of said rollers at its free end for movement to and away from the article, a jack screw extending through the outer periphery of the housing and engaging said lever within the housing to urge said roller inwardly, ratchet teeth extending outwardly from the periphery of the housing, and means to rotate the housing including an annular member with a radial opening and pawl means carried thereby for engagement with said ratchet teeth, said jack screw and said ratchet teeth being disposed adjacent opposite faces of the housing to permit operation of the housing rotating means without interference between said annular member and the jack screw.

2,645,142
**SPARK PLUG ADJUSTING PLIERS**
Otto Schwenzfeier, McCook, Nebr., assignor, by direct and mesne assignments, to James T. Clark, Fort Morgan, Colo.
Application January 22, 1951, Serial No. 207,119
3 Claims. (Cl. 81—15)



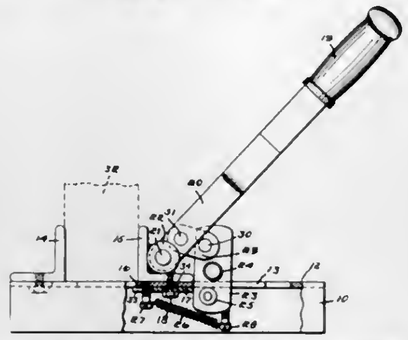
1. For use in adjusting the gaps of spark plugs, a tool comprising a pair of substantially L-shaped jaws sufficiently wide apart to be bridged longitudinally by a spark plug body, said jaws having working surfaces that face each other; one of said jaws having a bifurcated end portion, means interconnecting said jaws for moving them towards and from each other and so designed that said working surfaces are substantially parallel when positioned to receive a spark plug body lengthwise between them, rotatable gauge means fitted entirely to one of said jaws in definitely spaced relation to and in parallelism with the working surface of that jaw; said gauge means having radially outward portions that can be positioned selectively adjacent the last mentioned working surface to form therewith a space for reception of a spark plug terminal.

2,645,143
**SCREW-OPERATED VISE HAVING SHIFTABLE NUT FOR QUICK ADJUSTMENT**
Orion G. Larson, Denver, Colo.
Application October 2, 1948, Serial No. 52,451
6 Claims. (Cl. 81—17)



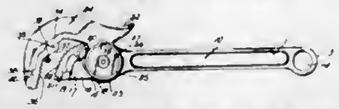
1. A quick-acting adjustable vise comprising a stationary clamping jaw and a movable clamping jaw slidably related thereto, said movable clamping jaw having a rotatable shaft connected therewith, said shaft being provided with an externally screw-threaded inner end portion, a cylindrical guide member into which said shaft extends, a non-rotatable nut slidably disposed in the cylindrical guide member and receiving the threaded portion of the shaft, means within the cylindrical guide member and engaging said non-rotatable nut for maintaining the movable clamping jaw in adjusted position relative to the stationary clamping jaw at predetermined times, said means including an inner metal sleeve surrounding the shaft, metal end washers also surrounding the shaft, and ring-like flowable members mounted on said sleeve and disposed between the metal end washers, and means for causing said flowable members to flow into position to engage the inner wall of the cylindrical guide member to maintain the movable clamping jaw immovable with relation to the stationary clamping jaw.

2,645,144
**TOGGLE ACTUATED VISE**
David C. Williams, Needham Heights, Mass., assignor to Douglass Biddison, New York, N. Y.
Application January 2, 1951, Serial No. 203,935
4 Claims. (Cl. 81—17)



1. A vise comprising a chambered base the upper surface of which is a bed and which has a slot in communication with the base chamber, a fixed jaw on said bed adjacent one end of said slot, a second jaw slidable on said bed, a handle pivotally connected to said jaw to swing between a raised released position downwardly into a locking position, a locking member extending downwardly into said chamber through said slot and slidable therein, means yieldably connecting the lower part of said member to said second jaw, a pair of elements carried by said member, said elements being spaced apart a distance greater than the thickness of said bed and located adjacent opposite surfaces thereof, and a link pivotally connected to the exposed end of said member and to said handle rearwardly of its pivotal connection with said second jaw, said handle rocking said member so that at least one of said elements is out of engagement with said bed as said handle is moved towards its released position thereby to enable said second jaw to be slid therealong, said handle rocking said member so as to bring both of said elements into locking engagement with said bed as said handle is moved towards its locking position and when said handle assumes said locking position, the center of the pivotal connection between said link and said handle lies below the center line between the pivotal connection between said handle and said second jaw and the pivotal connection between said link and said member, and the uppermost element is engaged as a stop by said handle.

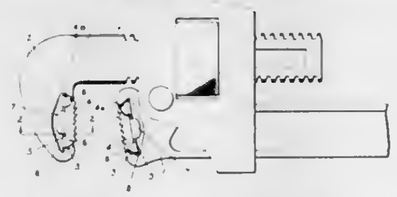
2,645,145
**ADJUSTABLE SELF-CLOSING PIPE WRENCH AND THE LIKE**
John V. Larson, Chicago, Ill.
Application September 7, 1950, Serial No. 183,606
5 Claims. (Cl. 81—99)



1. A hand tool comprising a handle member, a fixed jaw on said handle member, said fixed jaw having a serrated arcuate gripping surface, a movable jaw having an angular gripping element pivoted to said handle member, said movable angular gripping element comprising a straight serrated portion and a straight smooth portion disposed angularly to each other in confronting relation with said fixed jaw, a bearing of greater load sustaining capacity than said handle member permanently associated therewith to receive a pin for mounting said movable jaw, furcated trigger extensions formed integral with said movable jaw to enable the thumb actuation thereof, and spring means for normally urging said movable jaw relative to said fixed jaw.

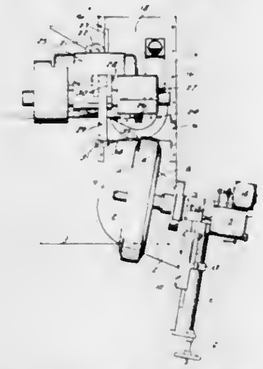


2,645,146
**REPLACEABLE JAW FOR WRENCHES**
Albert J. Matter, Park Ridge, Ill.
Application October 3, 1951, Serial No. 249,422
3 Claims. (Cl. 81—180)



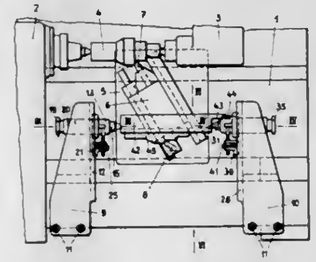
1. A holder for a replaceable jaw for a hand tool, said jaw being of rectangular form with beveled ends, comprising a relatively flat backing plate adapted to fit the back of said jaw, with ears adapted to engage the sides of the jaw and ears adapted to engage the edges of a dovetailed recess provided in the tool to receive said jaw for the purpose of holding the said jaw in said recess.

2,645,147
**TIRE TREAD REMOVING AND TRUING DEVICE**
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application November 4, 1949, Serial No. 125,631
4 Claims. (Cl. 82—2)



1. In a device of the class described, a horizontal base member, a horizontal support mounted on said base member for rotation about a vertical axis, a standard carried by and projecting upwardly from said support, a slide member supported by said standard adjacent the upper end thereof for horizontal movement, a horizontal shaft projecting from said slide member, a pneumatic tire casing supporting means rotatable about said shaft, a post secured to said base member in spaced and parallel relation to said standard, an arm having one end thereof pivotally supported by said post, said arm in operative position projecting from the post in a direction toward said horizontal shaft, a relatively long curved tire tread cutting blade projecting laterally from the other end of said arm and being disposed to penetrate the tread of a tire casing mounted on said supporting means upon rotation of said support about its vertical axis, and means supported by said standard for imparting horizontal movement to said slide member with a corresponding movement of said supporting means toward and away from said blade.

2,645,148
**SUPPORT OF COPYING LATHES**
Ottomar von Zelewsky, Neuhausen am Rheinfall, Switzerland, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland, a company of Switzerland
Application April 18, 1950, Serial No. 156,536
In Switzerland November 30, 1949
4 Claims. (Cl. 82—14)

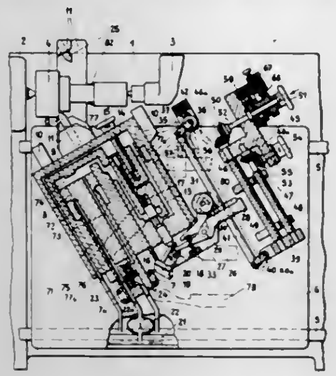


4. In machine tools having an upright, a holder upon said upright and having a template-engaging tip, means carried by said upright and connected with the holder for the fine axial adjustment of the holder, and a set screw connected with the last-mentioned means for the fine transverse adjustment of the holder, whereby the template surface to be copied may be set parallel to a copying device.

2,645,149
**HYDRAULIC COPYING DEVICE FOR LATHES**
Ottomar von Zelewsky, Neuhausen am Rheinfall, Switzerland, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland, a company of Switzerland
Application April 18, 1950, Serial No. 156,538
In Switzerland December 2, 1949
2 Claims. (Cl. 82—14)

1. In a lathe, having a slide movable up and down, a piston connected with said slide and movable therewith, and an auxiliary, two-armed lever pivotally mounted in said piston; another two-armed lever pivotally mounted in said piston, a spring pressing against one arm of the second-mentioned lever, a pin carried by the second arm of the second-mentioned lever and adapted to be pressed by said spring against the second arm of the first-mentioned lever, a roller carried by second arm of the second-mentioned lever, means adapted to engage said roller and thereby shift the position of said slide, two stops movable into the path of the other arm of the second-mentioned lever for limiting the upward and the

downward movements, respectively, of said slide, shafts operatively supporting said stops, gears



engaging said shafts and handwheels connected with said gears for actuating the same.

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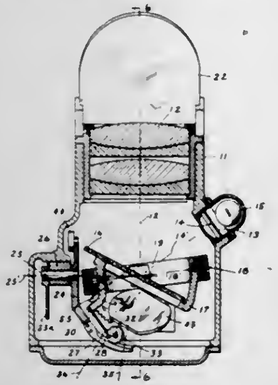
2,645,150

## COLLIMATING OPTICAL SIGHT

**Azor D. Robbins, Hempstead, N. Y.**

**Application February 15, 1951, Serial No. 211,046**

**5 Claims. (Cl. 88—2.4)**



1. In a sight unit, in combination, a housing body, a lens, an illuminated reticle, a tiltable mirror positioned to reflect light from said reticle through said lens, a gimbal ring pivoted in said body, a supporting frame for said mirror pivoted in said gimbal ring, a shaft mounted beside the gimbal ring and having its axis at right angles to and intersecting the axis of said gimbal ring pivots, an arm carried by said shaft, said arm terminating in a finger having arcuate guide surfaces each describing a radius with centers coincident with the axis of said gimbal pivots, a yieldable arm carried by said frame, a roller journaled on a shaft carried by said yieldable arm, said roller having a double flanged periphery, said flanges being held in rolling contact with said guide surfaces by pressure of said yieldable arm when said gimbal ring is tilted and said roller and said guide surfaces providing driving engagement whereby rotation of said shaft will also rotate said mirror frame on its supporting pivots.

2,645,151

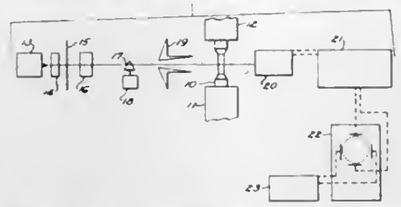
## APPARATUS FOR DYNAMIC DETERMINATION OF REDUCTION IN AREA OF SPECIMENS DURING MECHANICAL TESTS

**Carlton H. Hastings, Newton, and Seymour W. Carter, Hopkinton, Mass.**

**Application December 29, 1948, Serial No. 67,902**

**4 Claims. (Cl. 88—14)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. Apparatus for determining the true stress-strain characteristics existing in a test specimen under mechanical strain at any given instant during the elastic and plastic deformation thereof comprising in combination, means for projecting a light beam directly at the specimen, means for continuously scanning said light beam along that portion of the test specimen wherein changes in cross-sectional area are anticipated, photoelectric means for producing a first electrical signal varying in accordance with the amount of light by-passing the specimen during changes in the cross-sectional area thereof, means for generating a second variable signal, and cathode ray oscilloscope means for combining the effects of said first and second signals to produce a visible trace wherein any point thereon represents the instantaneous cross-sectional area of the test specimen expressed as a function of said second signal.

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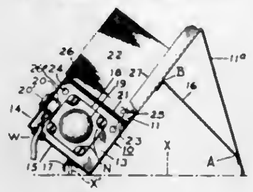
2,645,152

## SORT VERIFIER FOR PUNCHED CARDS

**Leo Patrick Martin, Decatur, Ill.**

**Application July 22, 1950, Serial No. 175,335**

**2 Claims. (Cl. 88—14)**



1. A sort verifier for punched cards, comprising casement means for mounting an illuminable element, back plate means extending above the casement means for supportedly and evenly engaging one face of a deck of punched cards for sort verification, upwardly inclining butt plate means integral with and extending above one side end of said back plate means for truing up said deck of cards, means on said back plate means for positioning and bracing said casement means in use, transparent window means mounted on said casement means for supporting co-operatively with the said back plate means the said deck of cards for sort verification, finger room provided and conjointly arranged in said casement means and window means to facilitate handling the card deck into and out of the device, illuminable means within said casement means for directing light



against the card deck and through the punched and alignedly positioned holes in said deck, means on said casement means for removable engagement with a holding element on a card sorting machine, and vent provision in said casement means.

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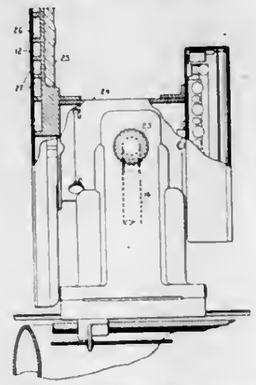
2,645,153

## OPTICALLY TRUE SUPPORT FOR PHOTOGRAPHIC FILM, COPY, OR OTHER MATERIAL

**Bernard R. Halpern, New York, N. Y.**

**Original application December 13, 1947, Serial No. 791,515, now Patent No. 2,570,668, dated October 9, 1951. Divided and this application September 12, 1950, Serial No. 184,486**

**1 Claim. (Cl. 88—24)**



A vacuum back for holding and supporting film or copy material in optically smooth, vertical position in a precision process camera or the like, comprising film or paper holding structure having a suction chest enclosure over the back of the same, means for applying suction to said enclosure, a suction plate covering the front of said suction chest enclosure and having a continuous, flat, smooth front supporting surface and continuous suction over the entire area of the same, said suction plate composed of fine granular material closely and rigidly bonded together in a hard, rigid, self-supporting, porous, homogeneous structure having immediately adjoining, microscopically minute channels extending through the same from the supporting surface at the front to the back surface of the plate, said front supporting surface of the plate being uninterruptedly smooth and optically flat and said minute channels having immediately adjoining terminal ports of microscopic size, in the plane of said optically flat supporting surface, and continuously and uniformly distributed over the entire area of the plate whereby to hold and support flexible film or copy material in optically flat, undistorted condition.

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2,645,154

## FIVE-LENS PHOTOGRAPHIC OBJECTIVE

**Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany**

**Application September 9, 1950, Serial No. 183,967**

**In Switzerland October 17, 1949**

**4 Claims. (Cl. 88—57)**

1. A photographic objective composed of five lenses, which comprises the following elements arranged in the direction of light to the photographic image: (*a*) a front member composed of two individual lenses of opposite power, cemented together and having a cemented contact surface of converging effect; the front lens of this member being a converging lens, the index of refraction for yellow light of which is distinctly higher than 1.63; the value of the equivalent focal length of this cemented front member being in the range of 35/100 to 55/100 of the equivalent focal length of the total objective; (*b*) an intermediate diverging lens of unequal curvature, separated from said cemented front member by an air-space and consisting of highly refractive barium-flint glass, the Abbé number $\nu$ of which is higher than 42; the relative curvature of this intermediate diverging lens being defined by a quotient of its front radius and rear radius in the range of 1.87 to 2.67; the absolute value of the focal length of said diverging lens being in the range of 20/100 to 40/100 of the equivalent focal length of the total objective; (*c*) an air-space containing the diaphragm; (*d*) a converging rear member composed of two cemented lenses of opposite power, containing a biconvex converging lens and having a converging cemented surface which is convex relative to the diaphragm; the index of refraction for yellow light of said biconvex converging lens being distinctly higher than 1.63 and the value of the focal length of said converging rear member being in the range of 45/100 to 75/100 of the equivalent focal length of the total objective.



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2,645,155

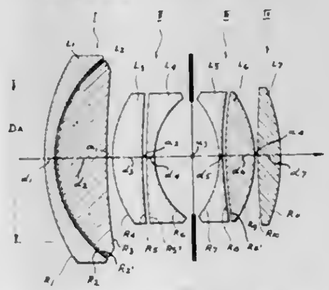
## PHOTOGRAPHIC OBJECTIVE OF HIGH LIGHT-TRANSMITTING CAPACITY OF THE GAUSS TYPE

**Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany**

**Application September 12, 1950, Serial No. 184,454**

**In Switzerland January 16, 1950**

**4 Claims. (Cl. 88—57)**



1. Photographic objective of high light-transmitting capacity and anastigmatic flattening of the image field, of the modified Gauss type, which includes two lens groups on each side of an intermediately located diaphragm and com-

prises the following elements arranged in the direction of light to the photographic image: (*a*) a front lens group consisting of two meniscus shaped individual lenses of opposite power, which are both concave relative to the diaphragm, the focal length of this front lens group being in the range of 1.3 F to 2.6 F, wherein F denotes the equivalent focal length of the total objective; (*b*) a second lens group consisting of two meniscus shaped individual lenses of opposite power, said second lens group having a focal length in the range of −2.50 F to −5.00 F; (*c*) an air space containing the intermediate diaphragm; (*d*) a third lens group consisting of two lenses of opposite power, i. e. a diverging front lens element and a converging rear lens element; said third lens group having a focal length in the range of −1.50 F to −3.50 F; (*e*) a single lens which forms the last lens element of the objective and has a focal length in the range of 0.55 to 0.95 F.

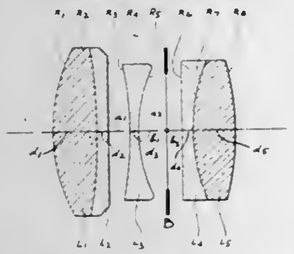
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2,645,156

## FIVE-LENS PHOTOGRAPHIC OBJECTIVE COMPRISING THREE MEMBERS SEPARATED BY AIR SPACES

**Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany**

**Application September 12, 1950, Serial No. 184,455**
**In Switzerland October 17, 1949**
**4 Claims. (Cl. 88—57)**



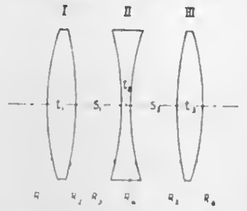
1. Photographic objective composed of five lenses, which comprises the following members arranged in the direction of light to the photographic image: (*a*) a front member consisting of two cemented lenses of opposite power, the front lens of which is a converging lens and has a refractive index distinctly higher than 1.63 for yellow light, the cemented contact surface of said lenses having a converging effect and the equivalent focal length of said front member being in the range of 40/100 to 60/100 of the equivalent focal length of the total objective; (*b*) a diverging lens of unequal curvature, separated from said front member by an air-space, consisting of highly refractive barium-flint-glass having an Abbé number ν higher than 42, the curvature of said diverging lens being defined by the quotient of its front radius and rear radius being in the range of 2.38 to 3.43, the focal length of said diverging lens being in the range of −22/100 to −44/100 of the equivalent focal length of the total objective; (c) an air-space containing the diaphragm; (*d*) a converging rear member consisting of two cemented lenses of opposite power, the rear lens of which is a biconvex converging lens and has a refractive index higher than 1.675 for yellow light, said lenses having a converging cemented contact surface convex relative to the diaphragm, the focal length of said rear member being in the range of 45/100 to 75/100 of the equivalent focal length of the total objective.

2,645,157

## PHOTOGRAPHIC OBJECTIVE OF THE TRIPLET TYPE

**Herman Lowenthal, Chicago, Ill., assignor to General Scientific Corporation, Chicago, Ill., a corporation of Illinois**

**Application May 15, 1952, Serial No. 287,959**
**2 Claims. (Cl. 88—57)**



1. A photographic objective of the triplet type consisting of three components, the radii of curvature of the front surface of the first component and the rear surfaces of the second and third components being substantially equal and approximately 40% of the focal length of the objective, the radius of curvature of the rear surface of the first component being between nine and ten times the focal length of the objective, the radius of curvature of the front surface of the third component being substantially 2.4 times the focal length of the objective and the radius of curvature of the front surface of the second component being substantially equal to one-half of the focal length of the objective, the three components having axial thicknesses respectively of substantially 0.06, 0.02 and 0.06 times the focal length of the objective, the axial distance between the first and second components being substantially 0.092 and the axial distance between the second and third components being substantially 0.099, both times the focal length of the objective, said objective being characterized by having an aperture ratio of between F:3 and F:4 and being fully corrected and having a high degree of resolution.

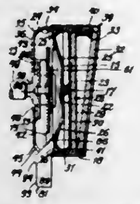
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2,645,158

## ADJUSTABLE ANTIGLARE REARVISION MIRROR

**Paul Bertell, Kenmore, and Gerald A. Weingartner, Grand Island, N. Y., assignors to Standard Mirror Company, Buffalo, N. Y., a corporation of New York**

**Application December 8, 1950, Serial No. 199,884**
**7 Claims. (Cl. 88—77)**



1. An adjustable mounting for supporting from a stem having a ball at the free end thereof a rear vision mirror assembly having a metal mirror container having a generally vertical rear wall and containing a pair of reflective surfaces arranged in vertical angular relation to each other to reflect to an observer images of different intensity when shifted about an axis generally parallel with both of said surfaces, comprising a



chassis plate, a spherical bearing frictionally securing said chassis plate to said ball to rotate thereon, a pivotal connection between said chassis plate and said mirror container and permitting movement of said mirror container about an axis generally parallel with both of said reflective surfaces, a hand lever pivotally connected to said chassis plate to rotate about an axis generally perpendicular thereto and generally coincident with said first axis, a pair of face cams on said hand lever arranged above and below its pivot axis and facing said mirror container, and a pair of face cams on said mirror container each engaging a corresponding one of said cams on said hand lever, one pair of corresponding cams on said hand lever and mirror container swinging said mirror container in one direction about its axis of movement on swinging said hand lever in a corresponding direction, and the other pair of corresponding cams on said hand lever and mirror container swinging said mirror container in the opposite direction about its axis of movement on swinging said hand lever in the opposite direction.

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2,645,159

## REAR VIEWING SYSTEM FOR VEHICLES

**Ronald N. Darroch, Detroit, Mich.**

**Application March 19, 1951, Serial No. 216,383**
**3 Claims. (Cl. 88—86)**



1. In a wide angle viewing system for a vehicle having a roof and a dash panel, a dome-like housing of streamlined shape surmounting said roof and having a rounded opening at the lower rear and rear side portions thereof, and a plurality of sets of mirrors for directing images received through said opening to the vehicle operator, each of said sets of mirrors comprising a primary mirror mounted within the housing and positioned to receive an image through a portion of said rounded opening, an intermediate mirror mounted within the upper portion of said dome-like housing in non-obstructing relation with said opening and above said opening and said primary mirror, said intermediate mirror being tilted downwardly and receiving the reflected image from said primary mirror, and a terminal mirror mounted within said vehicle, the vehicle having an opening for transmitting the re-reflected image from said intermediate mirror to said terminal mirror, the terminal mirrors of said sets being in closely adjacent relation, all of said mirrors being angularly placed so as to cooperate to show a panoramic view.

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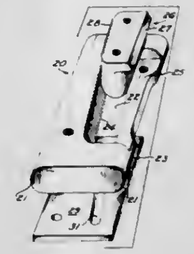
2,645,160

## HEADSPACING ADJUSTING DEVICE FOR FIREARMS

**Carl W. Gilligan, East Longmeadow, Mass.**

**Application March 10, 1948, Serial No. 14,139**
**5 Claims. (Cl. 89—180)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. In a firearm of the automatic type having a receiver, a bolt reciprocable between a locked breeched position and a recoil position within the receiver, a locking element pivotally mounted on the bolt, the improvement comprising a key member mounted in the receiver, and adjustable means in said key member adapted to cooperate



with the locking element whereby the bolt is positioned for optimum headspace.

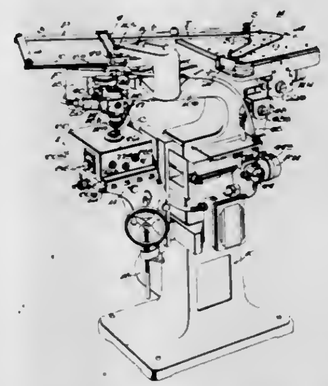
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2,645,161

## APPARATUS FOR THE PRODUCTION OF INTEGRAL BLADE TURBINE WHEELS AND THE LIKE UNITS

**Robert J. Stuart and Allen D. Gunderson, Racine, Wis., assignors to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin**

**Application February 16, 1948, Serial No. 8,496**
**22 Claims. (Cl. 90—13.1)**



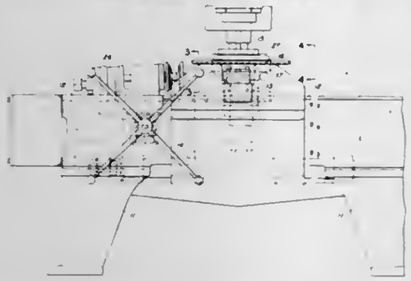
1. In combination, power operated means for indexing a work piece thereon step by step to successively position portions of the work piece at a cutting station; a cutter spindle mounted for lateral movements over the cutting station of said indexing means and being adapted to mount a cutting tool, said cutter spindle being also mounted for axial movements thereof toward and from the cutting station between a non-cutting position with a cutting tool relative to a work piece to a position fed into the work piece to the maximum depth of cut therein; power driven spindle feeding mechanism connected with said cutter spindle for feeding said spindle during lateral movements thereof from non-cutting position to position with a cutting tool at the maximum depth of cut in the work piece; means for returning said spindle from its position of maximum depth of cut to its non-cutting position; and means actuated automatically by movement of the cutter spindle to its non-cutting position for causing operation of said indexing means to index the work piece to position the next portion thereof at the cutting station.

2,645,162

## COMPOUND BORE CUTTING MACHINE

Fred C. Granade and George H. A. Ruby, Chicago, Ill., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey

Application April 26, 1950, Serial No. 158,182
3 Claims. (Cl. 90—18)



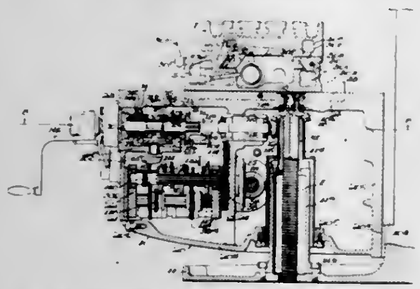
1. In a bearing broaching machine having a base and ways mounted thereon a cutting tool comprising a shaft, a plurality of spaced apart cutting wheels fixedly mounted on said shaft, one of said cutting wheels being of less diameter than the others of said wheels, and a bearing mounting supporting said shaft at such an angle to the plane of the ways of said machine that the top edge of the wheel of lesser diameter will project above the top edge of any other of said wheels, whereby said cutting tool will produce a compound bore in said bearing in a single cutting operation.

2,645,163

## MILLING AND THE LIKE MACHINE TOOL

Theodore F. Eserkain, Wauwatosa, Wis., assignor to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin

Application August 30, 1948, Serial No. 46,808
14 Claims. (Cl. 90—21)



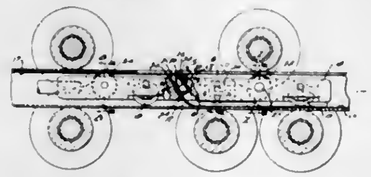
1. In a machine tool, in combination, a knee, a saddle and a work table mounted for feeding movements relative to each other; a motor mounted on said knee; feeds to said knee, saddle and table including a feed distribution unit providing reversible driving members for said feeds respectively, said members being mounted as self-contained components of said unit; a power transmission from said motor to said reversible driving members; a separable connection between said transmission and said feed distribution unit; separable connections between said reversible driving members and said feeds, respectively; manual control mechanisms mounted on said knee for selective control of said reversible feed driving members, respectively, of said feed distribution unit; separable connections between said knee mounted manual control mechanisms and said driving members; and said feed distribution unit including said driving element components thereof being removable and replaceable as a separate unit from and to mounted position on said knee in operative connection with said power transmission, feeds and manual control mechanisms.

2,645,164

## DEBURRING AND SWAGING MANDREL FOR INTERIOR WALL OF TUBING

Robert C. Ofenstein, Highland Park, and Stanley L. Willis, Detroit, Mich., assignors to The Standard Tube Company, Detroit, Mich., a corporation of Michigan

Application April 10, 1946, Serial No. 661,122
4 Claims. (Cl. 90—24)



4. A device for removing a ridge extending inwardly from the interior surface of a tube, including a combination, an arbor having a tool supporting aperture extending therethrough at an angle to the arbor axis, a tubular cutting tool having the inner edge relieved outwardly forming an angle with the cutter axis which is less than that between the axis and the inner surface of the tube being machined, a thread in said aperture, a tubular element having an external thread in engagement with said first thread for backing up and adjusting the position of the cutting tool in said aperture, a burnishing roller carried by said arbor aligned with the tool, and supporting rollers for said arbor disposed on either side of a plane through said ridge and the axis of the tube to provide an area diametrically opposite to said ridge for the reception of the material cut therefrom by said tool which passes through said tool and through said threaded tubular element.

2,645,165

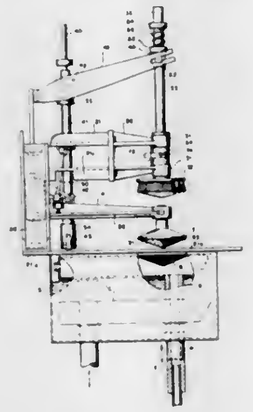
## APPARATUS FOR THE AUTOMATIC FORMING OF CAST FIBROUS PULP CONE BLANKS FOR CONE SPEAKER DIAPHRAGMS

Clifford E. Stevens, Glen Ridge, N. J., assignor to Stevens Products Inc., East Orange, N. J., a corporation of New Jersey

Application September 14, 1951, Serial No. 246,547
5 Claims. (Cl. 92—56)

1. Apparatus for producing cast fibrous cone blanks which comprises in combination, a tank, means for feeding a fibrous pulp suspension into the tank and means to maintain a constant fluid level therein, a hollow chamber and means sustaining the chamber in the tank for vertical movement from a high position bringing the upper surface of the chamber above the fluid level of the suspension in the tank to a low position bringing the said upper surface of the chamber below the fluid level of the suspension in the tank, means to oscillate the said chamber between said two positions at timed intervals and with determined holding time periods at each said position, means applying a negative air pressure to the chamber interior during the time interval the chamber is submerged, means applying a positive air pressure to the chamber interior during the time interval the chamber is unsubmerged, means to charge the water present in the chamber when the said positive air pressure is applied to the chamber, an opening in the upper surface of the chamber, a cone-shaped screen and means detachably securing the screen in closure position in the said opening, a hollow perforated cone-shaped member adapted to nestingly engage the said screen and means sustaining the said member at a horizontal level above the level of the said screen to be movable into nesting position with the screen as the screen is moved with the said chamber into high position and out of nesting position to a second position as the said screen is moved with the said chamber out of high position and means to apply selectively a negative and a positive pressure of air to the hollow interior of said member, a conically shaped brush adapted to seat within the said screen and means sustaining the brush in a position above the screen to be movable into and out of nesting contact with the screen as the said screen approaches high position and departs from high position, respectively, said means being operatively connected with the means actuating said hollow perforated member into and out of nesting engagement with said screen to be actuated subsequently to the removal of the cone blank piece from the screen and just prior to screen immersion in the pulp suspension in the said chamber, and means to oscillate said conical brush continuously through a determined arc of axial rotation.





2,645,166

## METHOD OF PRODUCING PAPER BAGS

Walter S. Blizard, Philadelphia, Pa., assignor to Wolf Brothers, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application August 5, 1950, Serial No. 177,875
2 Claims. (Cl. 93—35)

1. The method of producing bags comprising cutting a strip of material to form a succession of bag blanks and cutting contoured indentations in the edges of the strip in the regions thereof in which the top and bottom corners of each bag will be formed, the indentations each being in the form of a concave surface joining at least one convex surface extending inwardly of the portion of the strip which is to form the finished edge of the bag, folding each blank with the bend lines extending transversely across the top and bottom of the bag and terminating in concave surfaces of said indentations and displaced from



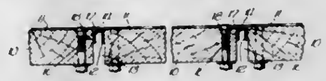
the bases thereof, and sealing the blanks to form finished bags.

2,645,167

## FLOOR PROTECTING PLATE

Kurt E. Zeidler, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application November 23, 1948, Serial No. 61,637
2 Claims. (Cl. 94—13)



1. A protecting plate for a railway car floor, comprising a body portion, a flange along one side morgin of said body portion, forming a rounded corner between the flange and said body portion, spaced slots in said rounded corner, spaced tongues along the opposite side margin of said body portion and being connected to said body portion by a portion inclined thereto, whereby the inclined portions of said tongues bear against the upper edges of corresponding slots in an adjoining plate when inserted therein and moved laterally towards said adjoining plate to maintain said plates in a predetermined plane.

2,645,168

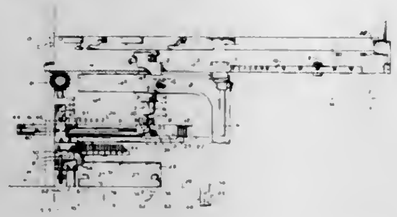
## JUSTIFYING APPARATUS FOR USE IN TYPOGRAPHICAL PHOTOCOMPOSING MACHINES

Herman R. Freund, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application August 2, 1950, Serial No. 177,145
38 Claims. (Cl. 95—4.5)

1. Justifying apparatus for use in photographic line-composing machines wherein lines of type matter justified to a length corresponding to a selected column width are produced from lines of photographable character-bearing elements composed to a length less than such column width, said apparatus comprising a line follower embodying coactable line-measuring members having a limited measuring range and operative within such limit to measure the shortage in length of the composed line of elements, said follower and members being movable in a path from a starting position corresponding to the justified length of line to be produced to a fixed

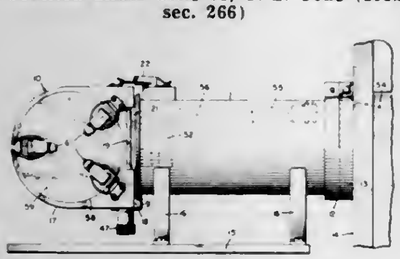
line-ending position corresponding to the right hand margin of the column, a control rail hinged at one end thereof to a member adjustable endwise of said path to locate said hinge in correspondence with any line-length starting position of said follower, the free end of said rail being slidably connected to a pivoted fulcrum, operating means for elevating said adjustable member to actuate said measuring mem-



bers to the extent of line-shortage and to cause said rail to swing on its hinge and rock on said fulcrum into an angular position in the path of said members determined by the amount of shortage measured, and means for moving the line-follower along said path, said measuring members under control of said angularly disposed rail during movement of the follower operating to justify the line produced to the selected column width.

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**2,645,169**
**HIGH-SPEED CAMERA**
**Frank W. Hayward, Takoma Park, and Charles J. Zablocki, Silver Spring, Md.**
**Application August 5, 1949, Serial No. 108,832**
**3 Claims. (Cl. 95—17)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A high speed camera comprising a hollow cylindrical drum of a lightweight plastic material adapted to carry a film strip adjacent the periphery thereof, said drum comprising a circular web, a translucent cylindrical member integral with the periphery of said web at one end of said cylindrical member, the inner surface of said translucent cylindrical member being provided with a shallow channel of width substantially the same as the width of said film strip, the side walls of said channel being undercut to provide means for anchoring said film strip in said channel, the inner surface of said cylindrical member providing support for said film strip over the entire area thereof whereby centrifugal force acting on said film strip upon rotation of said drum forces said film strip against the inner surface of said translucent cylindrical member, said hollow drum being open at one end thereof to permit access to the hollow interior thereof for insertion of said film strip in said channel.

**2,645,170**
**FILM GUIDE STRUCTURE FOR PHOTOGRAPHIC CAMERAS**
**Reinhold Heidecke, Braunschweig, Germany, assignor to Franke & Heidecke, Fabrik Photographischer Präzisions - Apparate, Braunschweig, Germany, a firm**
**Application June 17, 1950, Serial No. 168,723**
**In Germany June 23, 1949**
**4 Claims. (Cl. 95—31)**



1. A photographic camera comprising a body portion and a back portion movable to open and closed positions relative to said body portion, said back portion when closed being stationary relative to said body portion, a support member on said body portion for engaging one face of a film to hold it in exposure making position, a presser plate mounted on said back portion for engaging the opposite face of the film when the back portion is in closed position, said presser plate being mounted for movement relative to said back portion both in a direction perpendicular to the film and in a direction parallel to the film, spring means tending to press said presser plate forwardly toward said support member, when said back is closed, and abutment means on the camera lying in the path of said presser plate and limiting the extent to which said spring means may press said presser plate toward said support member to define the thickness of the film channel between said support member and said presser plate, said abutment means and said presser plate having contacting surfaces so shaped that when said presser plate is moved in a direction parallel to the film, from a first position to a second position, said contacting surfaces will hold said presser plate at a greater distance from said support member to define a greater thickness of film channel than when said presser plate is in said first position.

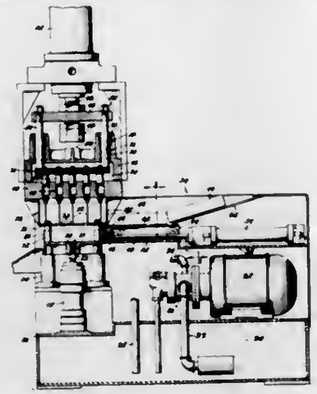
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**2,645,171**
**MACHINE FOR INJECTING BACON SLABS OR THE LIKE**
**Stephen T. Moreland, Indianapolis, Ind.**
**Application September 22, 1950, Serial No. 186,183**
**12 Claims. (Cl. 99—257)**

2. In a machine of the class described, a gang of cylinders, a perforated needle communicating with each cylinder, a piston reciprocable in each cylinder, means providing a valve-controlled inlet to each cylinder, a platform supported adjacent the free ends of said needles and movable toward and away therefrom in line with said needles, conveyor means adjacent said platform and including an intermittently movable element operable to feed objects successively onto said platform, means energized when said platform attains its position most remote from said needles to shift said movable element toward said platform and to retract said pistons in their cylinders to draw a uniform, measured volume of fluid into each cylinder, means energized when said pistons have been fully retracted to retract said



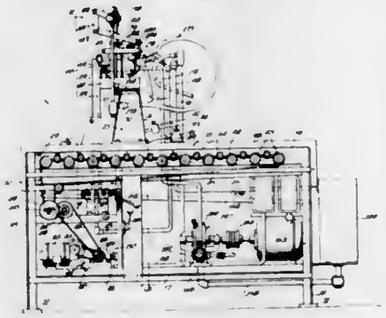
movable element and to move said platform toward said needles to cause said needles to enter an object on said platform, means energized when said movable element has been fully re-



tracted to advance said pistons in their cylinders to drive such measured volumes of fluid from said cylinders through said needles, and means energized upon completion of the fluid-discharging stroke of said pistons to retract said platform.

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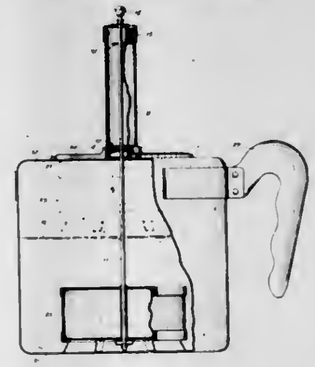
**2,645,172**
**AUTOMATIC APPARATUS FOR INJECTING CURING LIQUID INTO HOG BELLIES AND THE LIKE**
**Norman J. Allbright, Ralph W. Illsley, and Bertie S. Harrington, Chicago, Ill., assignors to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois**
**Application September 27, 1951, Serial No. 248,578**
**30 Claims. (Cl. 99—257)**



1. An apparatus adapted to treat hog bellies or the like and comprising a frame structure, power driven means mounted on the frame structure, operative when driven continuously to feed the bellies to be treated one after the other in a substantially horizontal direction and embodying a series of closely spaced parallel horizontal shafts with teeth-equipped belly supporting wheels thereon, an electric motor and gearing between the motor and the shafts for driving the latter in one direction, a crosshead positioned over certain of the shafts, provided with a plurality of downwardly extending hollow needles, and having mounting means therefor whereby it is supported so that it is movable first downwards in order to bring the needles into penetrating relation with the subjacent belly, then laterally for a short distance with the subjacent belly, and then upwards so as to effect removal of the needles from said subjacent belly, power operated means on the frame structure for moving the crosshead downwards and upwards in rapid succession, means for retracting the crosshead laterally to its starting position each time the needles are withdrawn in connection with upward movement thereof, and means whereby curing liquid under pressure is caused to flow through the needles and into the subjacent belly each time the needles are brought into their said penetrating relation.

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**2,645,173**
**BEVERAGE BREWING DEVICE**
**Robert Samuel McWatters, Ottawa, Ontario, Canada**
**Application February 23, 1950, Serial No. 145,810**
**11 Claims. (Cl. 99—319)**



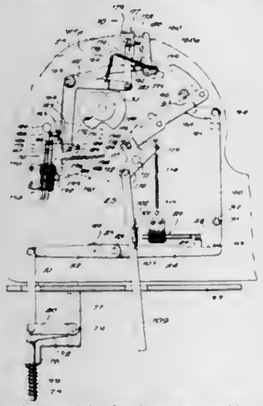
1. A beverage making device comprising a receptacle having a restricted neck, a tubular member mounted in said neck and having its outer surface in sealing relation therewith, the lower end of said member being open and in communication with the interior of the receptacle, a hollow cylinder mounted on the upper end of said member, the interior of said cylinder communicating with the interior of said member, said upper end of the member being otherwise closed, a piston rod extending axially through said member and cylinder and carrying a piston reciprocally mounted in said cylinder, said cylinder having a steam outlet port adjacent to but spaced from the upper end thereof, and a perforated container for beverage making material removably secured to the lower end of said piston rod.

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**2,645,174**
**DRUM STOP MECHANISM FOR ROTARY DUPLICATING MACHINES**
**Carl A. Levin, Park Ridge, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia**
**Application August 4, 1949, Serial No. 108,471**
**4 Claims. (Cl. 101—132)**

1. A duplicating machine comprising a drum embodying means for supporting a master sheet and a pair of intermittently rotating sheet feed rolls driven therefrom, non-blocking braking means to cause said drum to come to a stop in either one of two positions, a cam carried on said drum and rotating therewith, two cam followers angularly spaced from each other by a distance corresponding to the angular distance between

said two stop positions and engaged by said cam, a pair of normally closed cam switches located peripherally with respect to the drum and each being associated with and actuated by one of said cam followers, electromagnetic means for causing, when deenergized, actuation of said braking means, a power source, said cam switches being connected in parallel with each other and in se-



ries circuit with said electromagnetic means and said power source, whereby the opening of either one of said cam switches incident to the rotation of said drum and cam would de-energize said electromagnetic means to actuate said brake, and a selector switch for alternatively cutting one or the other of said cam switches out of said series circuit thereby permitting selection of one or the other of said two positions into which said drum will be caused to come to a stop.

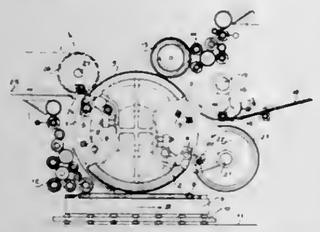
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2,645,175

## ONE REVOLUTION HIGH-SPEED CYLINDER PRINTING PRESS

Artur Buttner, Heidelberg, Germany, assignor to Schnellpressenfabrik A.-G. Heidelberg, Heidelberg, Germany, a corporation of Germany

Application March 22, 1950, Serial No. 151,272
In Great Britain January 9, 1950
6 Claims. (Cl. 101—173)



1. A one revolution high-speed cylinder press including, an annular printing cylinder, a flat form printing mechanism, a round form printing mechanism, a separate printing surface on the printing cylinder for each of said printing mechanisms, a transfer cylinder for transferring the sheet to be printed upon during one revolution of the printing cylinder from one of its printing surfaces to the other printing surface, a sheet feeding device, and a sheet removing device, the round form printing mechanism being situated between the sheet feeding device and the sheet removing device and the round form printing mechanism being adjustable for printing on the printing surface of the flat form printing mechanism.

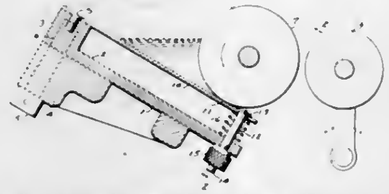
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2,645,176

## INK FOUNTAIN FOR PRINTING PRESSES

Bennett B. Perry, Quincy, Ill.

Application March 14, 1950, Serial No. 149,597
3 Claims. (Cl. 101—365)



1. An ink fountain comprising a unitary reservoir formed of a sub base adapted to be secured to a printing press base and including a rear wall formed by an extension on said sub base, side walls, a driven feed roll forming the front face thereof and a bottom forming blade secured to the rear wall only and having a flat upper surface contact with a lower peripheral portion of the feed roll at a point spaced inwardly from the free edge of said blade, a plurality of individual bolts spaced along the free edge of the blade in front of the point of contact and extending downwardly through the sub base, a compression spring on each bolt between the sub base and blade to normally urge the blade toward the roll, and an adjustable lock nut on each bolt beneath the sub base to hold each bolt and the controlled portion of the blade in any adjusted position with respect to the roll against the tension of the spring.

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2,645,177

## STEREOTYPE PLATE CLAMP

Arthur Dressel, Great Neck, N. Y., and Alexander J. Albrecht, West New York, N. J., assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application September 18, 1946, Serial No. 697,658
3 Claims. (Cl. 101—378)



1. A stereotype plate cylinder, and in combination, adjustable stops for abutting a straight edge of a stereotype plate for positioning it circumferentially of the cylinder, resilient means for clamping a curved end of the plate, means spaced longitudinally across the cylinder and comprising a plurality of clamping members mounted for movement chordwise into the cylinder and protractible for positively clamping the said straight edge of the plate against said stops, and means for operating all said clamping means simultaneously to lock and unlock said plate.

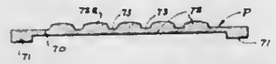


2,645,178

## PLASTIC PRINTING PLATE AND THE EMBOSSING THEREOF

George C. Brainard, Cleveland, and John H. Gruver, Cleveland Heights, Ohio, assignors to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware

Original application September 13, 1949, Serial No. 115,394. Divided and this application August 23, 1950, Serial No. 181,029
5 Claims. (Cl. 101—401.1)



1. An embossable printing plate of the type and size adapted for use as a charge plate to print sales slips and the like and being formed from a thermoplastic moldable material to afford a relatively thin body having a flat rear face and having a plurality of parallel spaced ribs on the other face thereof opposite said flat rear face and spaced laterally apart to define intermediate grooves and having a center to center spacing equal to the line spacing desired in lines of embossed type to be formed thereon, said ribs being of a width substantially equal to the height of conventional typewriter type to be formed as embossures thereon.

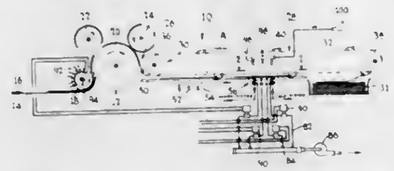
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2,645,179

## PRINTING MACHINE

Murray Spiro, Brooklyn, N. Y.

Application February 18, 1950, Serial No. 144,995
8 Claims. (Cl. 101—416)



1. For use in a printing machine wherein individual cut sheets imprinted with fresh hot printing that will offset unless cooled are individually so transferred in a fixed path of travel that they can be subjected to only a slight tension, an anti-smut device comprising a fixed member having a face in juxtaposition to the path of travel of the surface of the sheets opposite to the freshly printed surface, means to cool said member, and pneumatic suction means in said member for urging into contact with said face sheets traversing said member.

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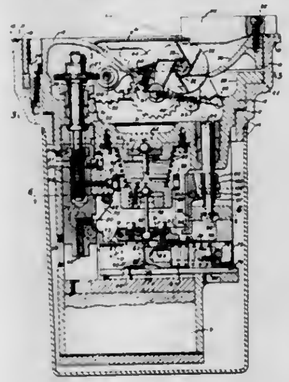
2,645,180

## TORPEDO EXPLODER

John M. Stockard, Washington, D. C.

Application November 17, 1949, Serial No. 127,902
18 Claims. (Cl. 102—17)
(Granted under Title 35, U. S. Code (1952), sec. 266)

8. In a torpedo exploder adapted to be carried within a torpedo adjacent the warhead thereof, mechanism comprising; an arming member mounted for rectilinear movement within the exploder along a first axis, a firing pin mounted for rectilinear movement within the exploder along a second axis transverse to said first axis, a water actuated impeller carried by the exploder adapted to be rotated by the slipstream adjacent the torpedo, means operatively connecting the impeller and member for moving the latter along said first axis in response to rotation of the impeller, a firing train carried by the member having a terminal end at one side thereof disposed laterally of said second axis when the member is in unarmed position and adapted to be bodily moved with the



member in a direction toward said second axis to armed position wherein it is disposed within the path of movement of the firing pin, and means operable independent of said mechanism for moving the firing pin into contact with said terminal end.

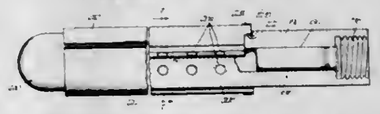
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2,645,181

## BLASTING SHELL AND FIRING MECHANISM THEREFOR

Kenly C. Bugg, Fort Wayne, Ind., assignor to Materials Blasting Company, Inc., Fort Wayne, Ind., a corporation of Indiana

Application January 4, 1950, Serial No. 136,769
7 Claims. (Cl. 102—25)



1. In blasting mechanism, the combination of a body member comprising an elongated substantially cylindrical member, said cylindrical member having means at one end for connection to firing mechanism, said body member having a shell bore adjacent said end for the reception of an explosive shell, said body member between said shell bore and the other end being formed of spaced ribs, a spider connecting said ribs, and reed members closing the spaces between said ribs.

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2,645,182

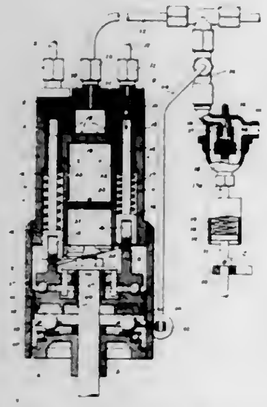
## FUEL INJECTOR

Jesse D. Tucker, Lodi, Calif., assignor of one-fourth to Boine W. Fuller, Lodi, Calif., one-fourth to Murray E. Milholland, and one-fourth to Jesse D. Tucker, Jr., both of Sacramento, Calif.

Application April 16, 1948, Serial No. 21,519
5 Claims. (Cl. 103—37)

1. A fuel injector comprising a body having a cylinder therein, the cylinder having a head, a fuel outlet passage from said head of the cylinder, a fuel inlet passage leading to the cylinder a distance from said head, a fuel pressure line leading to said inlet passage, a plunger slidable in the cylinder, means to reciprocate the plunger

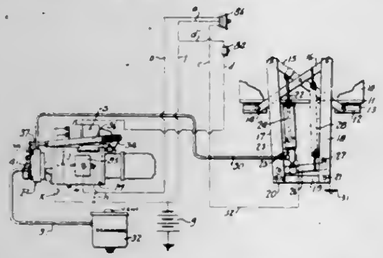
through a stroke of constant length from a point ahead of the inlet passageway to a point beyond the same, such latter means including a driven shaft, a rotary cam mounted in driving relation on the shaft and shiftable axially thereof, one end of the plunger riding said cam, and applied to the cam means to shift the cam axially along the shaft in one direction whereby to alter the range of reciprocation of the plunger relative to said inlet passage; said last named means com-



prising a non-rotatable disc movable axially on the shaft and on which the cam is rotatably mounted, the face of the disc opposite the cam being provided with an arcuate cam groove of increasing depth from one end and disposed in an arc concentric with the shaft, a fixed-level support for the disc turnable about the shaft, a disc-supporting element in the support ridable in the cam groove, and means to turn the support.

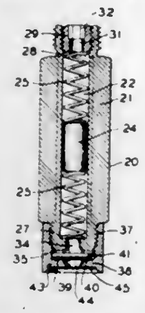
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**2,645,183**
**STARTER MOTOR-DRIVEN HYDRAULIC PUMP**
**John B. Parsons, Maumee, Ohio**
**Application February 18, 1952, Serial No. 272,009**
**14 Claims. (Cl. 103—38)**



1. A device of the class described, comprising an engine starting motor, a fluid pump connected to be driven by said motor, a valve in said pump for controlling fluid flow having a portion projecting exteriorly of the pump, said valve having one position enabling fluid under pressure to be forced from the pump and a second position enabling relatively free fluid flow, and an operator engaging said projecting portion of the valve for actuating same to said second position when the motor is used for engine starting purposes thereby to reduce the pump resistance to a minimum.

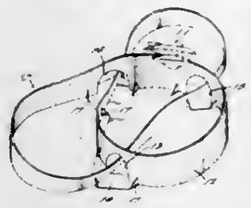
**2,645,184**
**PUMPING APPARATUS**
**Clarence A. Lowe, Columbus, Ohio, assignor to Ideal Sales Corporation, Columbus, Ohio, a corporation of Ohio**
**Application February 8, 1950, Serial No. 143,061**
**4 Claims. (Cl. 103—208)**




1. In a pumping system in which fluid is pumped by vibrations imparted to the pump, in combination a tank which is subjected to vibration; a pump consisting only of a cylinder through which the fluid flows, said cylinder being secured to the tank for vibration with the latter, said cylinder having an inlet at one end communicating with the interior of the tank and having an outlet at the opposite end, a floating piston completely combined within the cylinder, balancing springs on opposite ends of the piston, and a check valve in the inlet for preventing fluid flow from the cylinder back through the inlet; and means for imparting vibratory movement to the tank and the pump cylinder carried by the tank.

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**2,645,185**
**TRACK GAME WITH SINGLE RAIL**
**Ernest Fields, New York, N. Y.**
**Application June 14, 1949, Serial No. 99,005**
**3 Claims. (Cl. 104—63)**



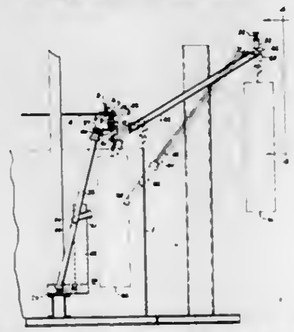
1. In a toy track game, the combination of a single rail track comprising a comparatively rigid strip arranged to rest with one longitudinal edge on a base for support of the rail strip in a substantially vertical plane, the opposite edge of the strip being adapted to support and guide a vehicle, said rail strip varying in height relative to the base for forming slanted rail sections of varying steepness, said rail strip being bent to form an endless single rail track system including sections crossing each other at different levels, each rail section forming an upper level section having an opening therethrough constituting a gate for the respective lower level rail section, and of a motor driven vehicle traveling over the said lower lever rail section; said vehicle having a front wheel and a rear wheel adapted to support the vehicle upon said track rail for travel along the rail, one of said wheels being



motor driven, and stop means for the vehicle motor, said stop means including an actuation lever protruding from the vehicle and arranged in one position to release said stop means and in another position to actuate the stop means for stopping the motor, one of said gates being shaped to cause the stop lever to engage an outline portion of the rail strip section defining the said gate for moving the lever from its release position into its stop position, thereby stopping the motor and automatically stopping the vehicle.

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**2,645,186**
**LOADING AND UNLOADING APPARATUS**
**John V. Davis, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware**
**Application August 26, 1950, Serial No. 181,650**
**9 Claims. (Cl. 104—97)**

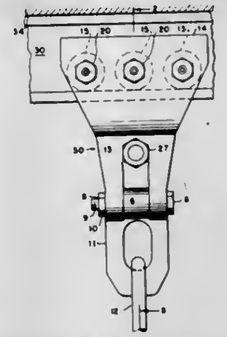


1. In a loading and unloading apparatus, a processing machine including a rail, a conveyor laterally adjacent to said machine and also including a rail, two series of spaced and timed work pushers associated respectively with said rails, said rails having respectively parallel portions with a gap in each such portion, said gaps being directly opposite each other and of equal length, a rail segment adapted to fit selectively in said gaps, a carrying member supporting said segment, a guide member between said machine and the gap in the conveyor rail, the end of said guide member nearer said machine being spaced laterally from the gap in the machine rail, another guide member fixed relatively to said machine and positioned laterally from the path of work suspended from said machine rail and on the side more remote from said conveyor, a slide member carried by said carrying member and slidable in the second guide member, the second guide member being shaped to guide said segment from the gap in the machine rail into the nearer end of the first guide member and vice versa.

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**2,645,187**
**REMOVABLE SNATCH ROLLER**
**Joseph Guadagna, Brooklyn, N. Y.**
**Application July 21, 1951, Serial No. 237,945**
**2 Claims. (Cl. 105—154)**

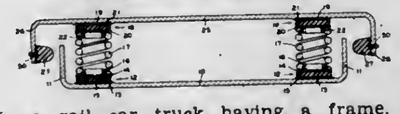
1. A removable snatch roller comprising in combination, a frame terminating at its lower end in hook hanging means, a pair of roller carriers pivotally connected at their lower ends to an intermediate portion of said frame, a three sided roller housing provided at the upper end of each carrier and supporting a plurality of roller means rotatably mounted on shafts therein said roller carriers being swingable from a position adjacent to said frame to a spaced position, and releasable means for securing the roller carriers in said first position wherein the releasable means



include a locking pin extending through the roller carriers and an upper tubular portion of the frame.

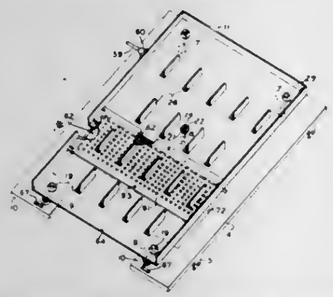
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**2,645,188**
**BOLSTER SUPPORT MEANS FOR RAIL CAR TRUCKS**
**Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
**Application April 28, 1950, Serial No. 158,729**
**1 Claim. (Cl. 105—193)**



In a rail car truck having a frame, the combination of a pair of first resilient sandwich members disposed on each side of the truck frame, each of said first resilient sandwich members comprising an upper and a lower plate member between which is disposed a resilient block member, the lower plate member of each of said first resilient block members being received within a recess formed in each end of the truck frame, an annular flange member secured to each of said upper plate members of said first resilient sandwich members, a coil spring disposed about each of said annular flange members in juxtaposition of the upper plate members of said first resilient sandwich members, a second pair of resilient sandwich members disposed at the upper end of each of said coil springs, said second resilient sandwich members comprising upper and lower plate members between which are interposed resilient block members, an annular flange member secured to the bottom of each of said bottom plate members of said second resilient sandwich members which annular ring members are adapted to be received within said coil spring members, a bolster extending transversely of said rail car truck, spaced recesses formed in said bolster adapted to receive the upper plate member of each of aid second resilient sandwich members, upwardly extending flange members integrally with and adjacent each side of the truck frame outwardly of said coil springs, downwardly extending flange members integrally with and adjacent each end of said bolster outwardly of said upwardly extending flange members, and resilient bumper members secured to the downwardly extending flange members of said boster and adapted to engage with the upwardy extending flange members of the truck frame.

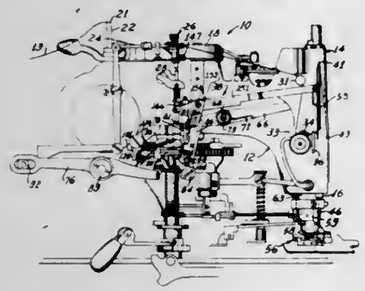
**2,645,189**
**ROLL SEPARATOR**
**Frederick Hansalik, Island Park, N. Y.**
**Application August 19, 1950, Serial No. 180,365**
**4 Claims. (Cl. 107—7)**



1. In a roll separating machine a pan supported in an inclined position and having its lower end open said open end serving as an exit for the discharge of roll material from the pan, a plurality of rows of ribs fixed longitudinally to the floor of the pan, the ribs of each row being spaced from one another, and the ribs of each row being spaced from the ribs of the next adjacent row, and the ribs of each row being in a position alternate to the ribs in the next adjacent row, and means for imparting a side to side rotary movement to the pan.

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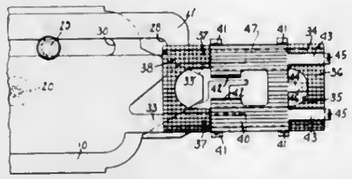
**2,645,190**
**CONTROL MEANS FOR BUTTONHOLING APPARATUS**
**William T. Leonard, Reading, Pa., assignor to Textile Trimming & Boarding Machine Co., Inc., Reading, Pa., a corporation of Pennsylvania**
**Application November 3, 1951, Serial No. 254,745**
**6 Claims. (Cl. 112—68)**



1. A device for application to a buttonhole sewing machine having a workpiece cutter to prevent operation of the cutter in the event of sewing thread failure, said device comprising a bracket, means on said bracket to facilitate connection thereof to an existing stationary part of the sewing machine, a pair of rigidly joined arms pivoted to said bracket, said arms being angularly disposed with respect to each other, the first of said arms having a rod secured thereon to extend from said first arm substantially at a right angle, a hook at the end of said rod for engagement with a tensioned sewing thread whereby to be supported by said thread, a member pivoted to the second of said arms adjacent its free end, said member having an extension substantially aligned with the body of said member, and a tongue extending laterally from said member.

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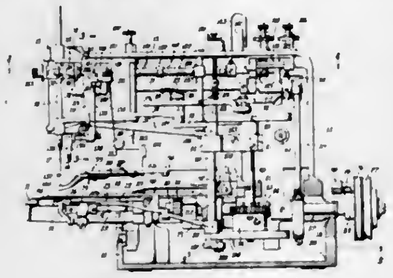
**2,645,191**
**ATTACHABLE FEEDING FOOT FOR SEWING MACHINE ATTACHMENTS**
**John Connors, Hamden, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut**
**Application October 24, 1951, Serial No. 252,899**
**7 Claims. (Cl. 112—77)**



1. A sewing machine attachment comprising a frame, a member movably connected thereto and having a feeding foot at its forward end, an auxiliary foot, and means for detachably securing said auxiliary foot upon the lower surface of said feeding foot, said means comprising upstanding lugs on said auxiliary foot adapted to frictionally clamp portions of said feeding foot between them.

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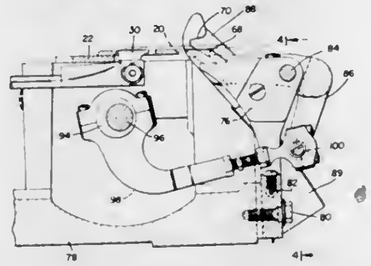
**2,645,192**
**AUTOMATIC BUTTON-CLAMP LIFTING MEANS**
**Michael McCann, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**
**Application April 26, 1952, Serial No. 284,510**
**9 Claims. (Cl. 112—110)**



1. In a cyclically operated article attaching sewing machine including an endwise reciprocable needle-bar, a needle-bar actuating shaft, a work-clamp for positioning an article with respect to said needle-bar, and a stop-motion device, means automatically opening said work-clamp at the completion of each cycle of machine operation, said means comprising, a work-clamp opening rock-shaft, complemental driving members carried for turning movement one on said needle-bar actuating shaft and the other on said rock-shaft, a cam-shaft, a first cam-means carried by said cam-shaft and effective to render said stop-motion device operative after a predetermined number of stitches, and a second cam-means carried by said cam-shaft, said second cam-means being effective upon operation of said stop-motion device to shift said complemental driving members into operative relation.



**2,645,193**
**SEWING MACHINE**
**Michael Chinnici, Brooklyn, N. Y., assignor to Peerless Sewing Machine Corporation, New York, N. Y., a corporation of New York**
**Application January 20, 1950, Serial No. 139,614**
**2 Claims. (Cl. 112—123)**



1. In a sewing machine having a work support, a needle adapted to reciprocate through said work support, and a feed dog for feeding superposed cloth and tape across said support under said needle: means for trimming the cloth edge so that said edge will be in desired relationship to said tape, said trimming means including shears having a fixed blade and a movable blade, a rigid member supporting said fixed blade, a horizontal shaft fixed in said member and projecting therefrom at both shaft ends, a bell-crank supporting said movable blade normally in shearing relationship with said fixed blade, means pivotally mounting said bell-crank on said shaft, means including a spring for biasing said movable blade toward said fixed blade, and means including an adjustable nut for moving said bell crank longitudinally of said shaft against said bias and for moving said movable blade longitudinally away from said fixed blade and out of shearing relationship therewith.

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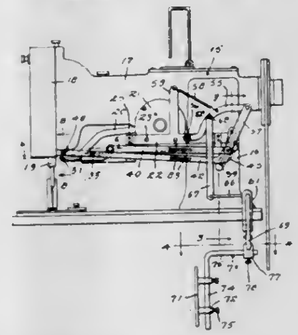
**2,645,194**
**SEWING MACHINE GAUGE AND GUIDE**
**Grace M. Underwood, Berryton, Kans.**
**Application April 21, 1950, Serial No. 157,297**
**1 Claim. (Cl. 112—153)**



A sewing machine gauge and guide comprising an elongated shank adapted to be arranged on the bed of a sewing machine and projecting from the presser foot thereof in a direction transverse to the direction of movement of material under the presser foot, a head of inverted U-shape carried by said shank adjacent the presser foot and elongated in the direction of movement of the material under the presser foot, means for securing said shank in adjusted position with the inner face of said head a predetermined distance from the sewing machine needle, said head having a longitudinal slot and being calibrated, and an indicating device slidable within said head and having an indicating pointer projecting through said slot and movable over the calibrations of said head to place said pointer a predetermined distance ahead of the sewing machine needle whereby the stitching of the material can be stopped when the following edge of the material reaches said pointer so that the material can be turned to stitch adjacent said following edge to provide a seam of a width determined by the distance between said head and the sewing machine needle.

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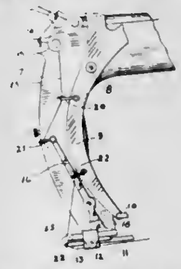
**2,645,195**
**EMBROIDERY ATTACHMENT FOR ZIGZAG SEWING MACHINES**
**Morris A. Zucker, Bronx, N. Y.**
**Application November 13, 1951, Serial No. 255,953**
**3 Claims. (Cl. 112—158)**



1. In a zigzag stitching machine having an oscillatable needle carrier and a cam operated operating member therefor; an embroidery attachment connected between said carrier and said member, said attachment comprising a horizontal guide bar fixed to the machine, a slide carried by said guide bar, a linkage connected between said slide and said member, a rock lever pivotally carried by said guide bar a connection between said slide and said rock lever, a stud slidably carried by said rock lever and movable lengthwise of the latter, a link pivotally connected between said carrier and said stud, and means for moving said stud relative to said lever to thereby vary the movement of said carrier.

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**2,645,196**
**SUPPLEMENTAL THREAD TENSION FOR SEWING MACHINES**
**Levi Douglas Secrest, Santa Ana, Calif.**
**Application August 30, 1949, Serial No. 113,060**
**2 Claims. (Cl. 112—254)**

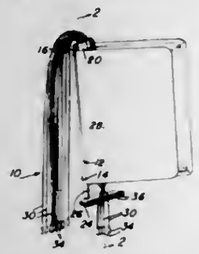


1. In a sewing machine: a needle-carrying bar, endwise reciprocable; a thread guide on said bar, distinct from the eye of the needle; and a thread-tension from which the thread leads directly to said thread guide and thence to the eye of the needle, comprising a member secured against rotation relatively to said machine upon which the thread may be wound in at least one

full coil to provide a snubbing resistance to passage of thread, and having coil-separating means for separating the on-coming and out-going portions of said thread upon said thread-tension; said thread-tension being mounted upon said machine between the limits of reciprocation of said thread guide and close to said bar, the shortest thread path from said thread-tension to said thread-guide being substantially shorter than the thread-paths existent therebetween when said thread-guide is at either of its limits of reciprocation.

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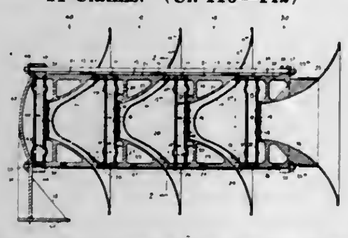
**2,645,197**
**BOOKMARKER**
**Jack E. Jones and Joe D. Jones, Greensboro, N. C.**
**Application September 4, 1951, Serial No. 244,908**
**2 Claims. (Cl. 116—119)**



1. A book marker comprising an elongated back member having upper and lower ends, means for adjusting the length of the back member, a downturned book engaging hook provided at the upper end of said back member, a transversely extending rack provided at the lower end of the back member and formed with a row of keeper notches, a book engaging tongue extending-upwardly from said rack, and a set of flexible book page separating cords connected at their upper ends to said hook and having their lower end portions selectively anchored in said notches, the lower end portions of said cords being crossed over one another in a region above said rack, whereby they may be removed from said notches in a predetermined succession.

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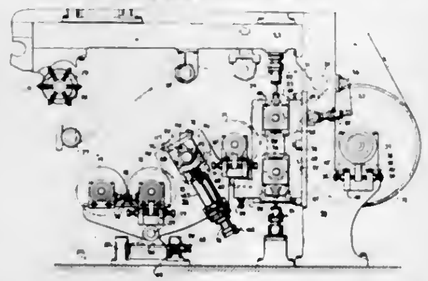
**2,645,198**
**SIGNAL HORN**
**David G. Stafford, Vancouver Island, British Columbia, Canada**
**Application March 27, 1951, Serial No. 217,715**
**11 Claims. (Cl. 116—142)**



1. A horn comprising a shell having a vibration chamber closed by a resilient diaphragm, a static body of fluid in the vibration chamber, a body member adjacent the diaphragm, the body member having an annular pressure chamber normally sealed by the diaphragm and a diffusion chamber in communication with the pressure chamber through a plurality of openings provided around the pressure chamber, and means for directing a working fluid under pressure into the diffusion chamber and through the openings creating uniform pressure in the pressure chamber against the diaphragm whereby the working fluid will repeatedly cause the diaphragm momentarily to unseal the pressure chamber, providing a repeated release of fluid pressure in the pressure chamber and causing the diaphragm to vibrate.

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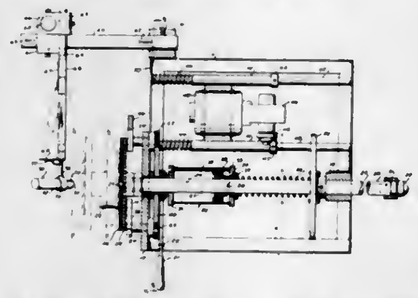
**2,645,199**
**PAPER COATING MACHINE**
**William A. Zonner, Watertown, N. Y., assignor to St. Regis Paper Company, New York, N. Y.**
**Application May 11, 1950, Serial No. 161,302**
**14 Claims. (Cl. 118—1)**



1. In a machine for coating sheet material, the combination comprising a series of contacting rolls for metering the coating composition and then distributing same onto applicator means, a pair of side frame members on which said rolls are journalled, pivots adjacent the metering roll means for supporting said frame members for pivotal movement about an axis parallel to the roll axes, adjustable screw means for moving said pivots in a direction transverse to the roll axes to move the frame members and rolls as a unit toward or from the applicator means, and adjusting screw means adjacent the applicator means for there supporting said frame members at a variable height, whereby adjustment of said latter screw means acts to tilt the frame members and rolls as a unit about said pivots to vary the distributor roll elevation with respect to the applicator means.

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**2,645,200**
**DISHWARE LINING MACHINE**
**Howard V. Schweitzer, Shaker Heights, Ohio**
**Application January 30, 1950, Serial No. 141,254**
**15 Claims. (Cl. 118—211)**



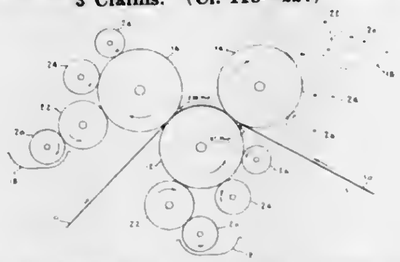
1. A multi-spindle lining machine comprising a turret; a motor to drive said turret; a fixed spindle-shifting cam extending around the axis



of said turret, said cam having a spindle advancing portion adjacent a loading station at the periphery of said turret, a spindle retracting portion adjacent an unloading station at the periphery of said turret and a dwell between said spindle advancing and retracting portion; a plurality of lining units removably mounted on said turret, each lining unit comprising a frame, a spindle journalled in said frame for axial and rotational movement and extending outwardly from the axis of said turret, a chuck carried on the outer end of said spindle, a motor to drive said spindle, means to interrupt the driving of said spindle by said motor when said spindle is retracted and to resume said driving when said spindle is advanced, a piston on said spindle, a relatively fixed cylinder in which said piston is moved by said spindle, and a passageway in said spindle and connecting the space between said piston and said cylinder to said chuck; a cam follower to engage said cam and shift said spindle as said spindles are carried by said turret, whereby ware placed on each chuck at said unloading station will be held thereon by vacuum and each spindle will commence to rotate as it is advanced at said loading station and whereby each chuck will release ware thereon and each spindle will decelerate its rotation at said unloading station.

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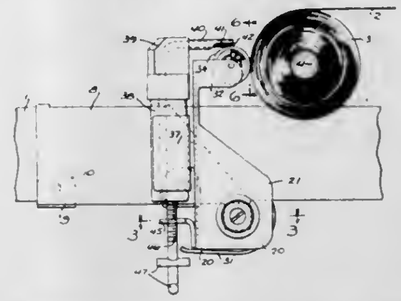
**2,645,201**
**APPARATUS FOR COATING PAPER**
**Gerald D. Muggleton, Appleton, Wis., assignor to Combined Locks Paper Co., Combined Locks, Wis., a corporation of Delaware**
**Application April 12, 1951, Serial No. 220,675**
**3 Claims. (Cl. 118—227)**



1. An apparatus for coating a traveling web of paper on both sides comprising a hard-surfaced roll, a first soft-surfaced roll forming a first nip with said hard-surfaced roll, a second soft-surfaced roll forming a second nip with said hard-surfaced roll, said first nip adapted to receive a traveling web of paper from a paper-making machine and pass said web therethrough, said hard-surfaced roll being adapted to carry said web to said second nip, said second nip adapted to receive said web and pass the same therethrough, said rolls being mounted for separate control as to speed, means for applying a measured uniform heavy film of liquid coating to said hard-surfaced roll in rotational advance of said first nip whereby said film is transferred to that side of said web facing said hard-surfaced roll at said first nip, said first soft-surfaced roll causing said film to be brought into intimate and uniform contact with said web, said second nip being angularly spaced from said first nip less than 180° whereby as said web is transferred by said hard-surfaced roll from said first nip to said second nip the formation of hydro-expansivity wrinkles is prevented, and means for applying a measured uniform heavy film of liquid coating to said second soft-surfaced roll in rotational advance of said second nip whereby said film is transferred to the other side of said web at said second nip while said web is still being supported by said hard-surfaced roll.

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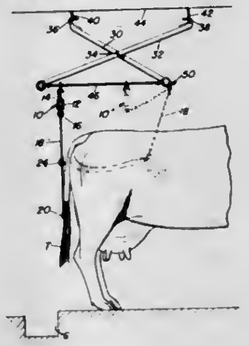
**2,645,202**
**DEVICE FOR SUPPLYING INK TO RIBBONS**
**John P. Knight, Birmingham, Mich.**
**Application November 18, 1950, Serial No. 196,395**
**8 Claims. (Cl. 118—255)**



1. A device for supplying ink to an ink carrying ribbon of an apparatus wherein the ribbon supplies ink for the printing of indicia on paper or the like comprising, a frame, a transfer roller journalled in the frame, means pivotally mounting the frame, a spiral spring inter-associated with the frame and its pivotal mounting for acting upon the frame to urge the transfer roller into engagement with the ribbon, means for adjusting the spring, and means on the frame for supporting ink supply means for applying ink to the transfer roller.

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**2,645,203**
**COWTAIL SUSPENDER**
**Stephen Jaksekovich, Kewaunee, Wis.**
**Application June 27, 1950, Serial No. 170,570**
**8 Claims. (Cl. 119—105)**



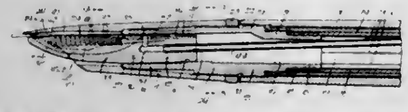
1. A cow tail suspender comprising a swivel member including an attaching hook, a guide slidably supporting the hook, a flexible element depending from the swivel member, means supported on the flexible element for attaching the flexible element to a cow's tail, a holding ring carried by said element, means associated with said guide and receiving the ring to hold the tail of a cow raised, and means supporting the flexible element extended and adapted to be suspended from a ceiling, said ring receiving means forming part of said supporting means.

2,645,204
**WRITING IMPLEMENT**
Helmut Bross, Braunschweig, Germany
Application April 9, 1951, Serial No. 220,066
In Germany October 1, 1948
8 Claims. (Cl. 120—17)



1. A lead pencil comprising a hollow casing having a tip end and a substantially open upper end, lead feed means disposed in said casing for longitudinal reciprocation therein, resilient means in said casing biasing said feed means toward said upper end, said casing including a flange partially closing said open upper end, a plunger comprising a plunger head and rod, said plunger head being disposed within said casing and normally held in abutting engagement with said flange by said feed means, said plunger rod extending loosely through said open upper end, lateral pressure on said plunger rod angularly displacing said plunger head in said casing and thereby reciprocating said feed means.

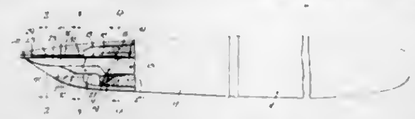
2,645,205
**FOUNTAIN PEN**
Robert W. Randolph, Milton, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application March 18, 1948, Serial No. 15,580
5 Claims. (Cl. 120—50)



4. A feed bar for a fountain pen comprising a body having a capillary ink feed slot in its upper surface extending longitudinally from the rear end of said body continuously to short of the forward end thereof, a series of longitudinally spaced capillary ink storage slots extending transversely through the upper portion of said body and intersecting said feed slot, the rearwardmost slots of said series being of less width and greater capillarity than the remaining slots of the series, a first air inlet slot extending longitudinally along the side of said body from the forward end to short of the rear end thereof and intersecting said storage slots, and a second air inlet slot extending longitudinally along the upper surface of said body in communication throughout its length with said ink feed slot, said second air inlet slot terminating short of the forward end of said series of storage slots and intersecting the rearward slots only of said series.

2,645,206
**WRITING PEN**
David F. Mohns, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application June 4, 1948, Serial No. 31,035
1 Claim. (Cl. 120—51)

A writing pen comprising a pen casing having a bore extending through the forward end thereof, a writing nib mounted in said casing and extending through said bore, said nib having a substantially cylindrical, but circumferentially discontinuous, body portion in said bore, a flexible, tapered, arcuate writing end portion projecting at its tip end only from said casing with circumferentially extending wings between the body portion and writing end portion, said nib having a slit extending inwardly from the free end there-



of and providing two nib sections, and a positioning projection extending upwardly from each of said nib sections adjacent the base end thereof and engaging the upper wall portion of said bore to space said nib section therefrom, said nib having a positioning projection extending from the upper surface rearwardly of said slit, all of said projections and said wings engaging the wall portions of said bore to provide a multiple-point support for the nib in said bore.

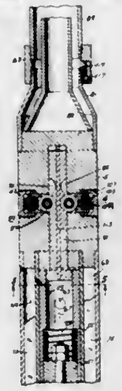
2,645,207
**PERCUSSION DRILLING TOOL**
Ross Bassinger, Houston, Tex.
Application April 12, 1948, Serial No. 20,470
4 Claims. (Cl. 121—17)



1. A well percussion tool comprising a tubular housing, sliding sleeve and piston elements arranged to mutually telescope and in telescoping position to divide the housing into a high pressure zone and a low pressure zone, means defining a drilling mud inlet to the high pressure zone, means defining a drilling mud outlet from the low pressure zone, resilient means biasing one of said elements toward said drilling mud inlet, a hammer connected to that one of said elements on which the resilient-biasing means acts, an anvil, means to stop the sliding stroke of the other of said elements in a direction toward said low pressure chamber before the hammer has struck the anvil so that the element to which the hammer is connected moves beyond telescoping relation with the other element in completing its stroke, that end surface of said other element which faces the high pressure chamber being of smaller area than the end surface thereof which faces the low pressure chamber.



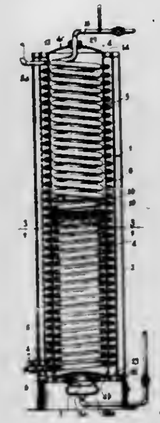
2,645,208
**FLUID MOTOR VALVE CONSTRUCTION**
Thomas Marvin Hardesty, Crockett, Calif.
Application June 27, 1949, Serial No. 101,615
5 Claims. (Cl. 121—164)



1. A hydraulic motor comprising a cylinder, said cylinder having both an intake port and a discharge port at each end; a piston reciprocally disposed in said cylinder; means for alternately closing the ports at each end of said cylinder both with respect to each other and with respect to the corresponding ports at the other end of said cylinder, in timed relationship to the strokes of said piston, said means involving a sleeve in which said cylinder is relatively slidable within fixed limits, said sleeve having openings therein adapted to alternately expose the ports at each end, as such cylinder moves relative to said sleeve within such limits of movement; means for causing movement of said cylinder relative to said sleeve in response to strokes of said piston said means including a resilient element intermediate each end of said sleeve and said piston; and releasable means resistively holding said cylinder against such relative movement in either direction until the piston impact pressure against an end of said sleeve by way of one of said resilient elements reaches a predetermined magnitude sufficient to overcome said releasable means whereby to permit said resilient element to cast said sleeve through its dead center position and effect the desired reversal of port openings.

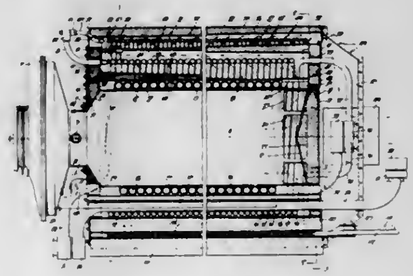
2,645,209
**AMMONIA CONTAINING WATER HEATING UNIT**
Thomas J. Digby, New York, N. Y.
Application October 20, 1947, Serial No. 780,794
3 Claims. (Cl. 122—32)

2. A water heating unit comprising a cylindrical liquid container having its axis positioned vertically and composed of a steel having a high tensile strength and embodying high resistance to internal hydraulic pressure, said container having permanently contained therein a charge of anhydrous liquid ammonia and having an internal charging chamber of a maximum volume substantially double the volume at room temperature of said charge of liquid to provide a connected expansion space filled with ammonia gas above said charge of liquid ammonia amounting to substantially fifty per cent of said maximum volume of said charging chamber of the container, whereby a safety expansion-space factor is produced that will permit expansion of the entire charge of liquid under high temperature and will avoid the production of hydraulic pressure within said container at any temperature encountered in use as a heating unit, a fuel-burner positioned beneath said container and projecting into contact therewith; a gas flame for applying heat through said container to the



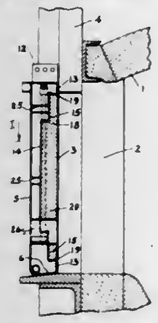
charge of liquid ammonia contained therein, a water-containing coil composed of stainless steel immersed in the liquid ammonia in said container and a preheating coil arranged in metal to metal contact with the outside surface of said container, composed of copper and having a higher heat-conductivity than the internal coils.

2,645,210
**STEAM GENERATOR**
Robert L. Harris and Marcus Lothrop, Berkeley, Calif., assignors to Yuba Manufacturing Company, San Francisco, Calif., a corporation of California
Application May 22, 1948, Serial No. 28,548
8 Claims. (Cl. 122—248)



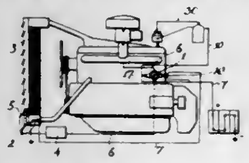
8. A steam generator comprising a circular cylindrical outer jacket having an axis, a rail projecting inwardly of and extending along the wall of said outer jacket parallel to said axis, a conduit in the form of a helix disposed within said outer jacket and having its successive convolutions supported on said rail for sliding movement axially along said rail, a circular cylindrical inner jacket disposed within and supported on said conduit for sliding movement axially along said helix, and separable interconnections for holding said outer and inner jackets and said conduit against said sliding movement.

2,645,211
## FURNACE DOOR
Ottwin L. Braun, Pittsburgh, Pa., assignor to Reliance Steel Products Company, McKeesport, Pa., a corporation of Pennsylvania
Application May 25, 1951, Serial No. 228,201
4 Claims. (Cl. 122—498)



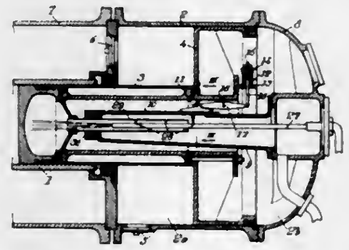
1. A water-cooled furnace door having front, back, and edge plates of sheet metal forming a fluid-tight enclosure, the back plate being of stepped construction and comprising a marginal plate connected with said edge plate around the periphery of the door, a base plate parallel to and spaced from both said marginal and front plates, an intermediate plate between and parallel to said base and marginal plates and having a central opening therein, the surface areas of said base and intermediate plates each constituting a significant percentage of the total surface area of said back plate, a peripheral flange projecting interiorly from the outer peripheral edge of said intermediate plate and connected with said marginal plate, a peripheral flange projecting exteriorly from the inner peripheral edge of said intermediate plate and connected with said base plate, and a monolithic filling of refractory material in the space centrally of said marginal plate.

2,645,212
## TEMPERATURE CONTROL FOR INTERNAL-COMBUSTION ENGINES
Jacob Nicolaas Bogaards, The Hague, Netherlands, assignor of one-half to Hindrik Jacob Hoving, Groningen, Netherlands
Application April 6, 1951, Serial No. 219,578
In the Netherlands April 6, 1950
3 Claims. (Cl. 123—41.06)



3. Apparatus for defining the upper as well as the lower limit of the temperature of the cooling water of an internal combustion engine which includes a vacuum line, and has a battery associated therewith, comprising in combination, a heating element disposed in the cooling system and adapted to be connected with the battery, a vacuum operated roller-blind or shutter, spring means normally holding said roller-blind or shutter in closed position, a temperature responsive device including a first means for closing the circuit of said heating element when the temperature of said cooling water falls below a predetermined minimum value, said temperature responsive device including a second means for connecting the vacuum line of said engine to open said roller-blind or shutter when the temperature of the cooling water reaches a predetermined higher temperature, and said temperature responsive device including a third means adapted to stop the engine if the said engine reaches a dangerously high temperature.

2,645,213
## FREE PISTON ENGINE HAVING HOLLOW PISTONS
Robert Huber, Bellevue, France, assignor to Societe d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland, a society of Switzerland
Application November 22, 1950, Serial No. 197,091
In France October 13, 1950
7 Claims. (Cl. 123—41.31)

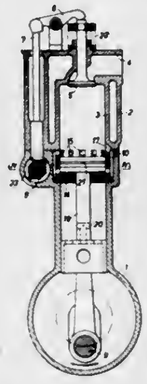


7. A machine including a frame, a horizontal power cylinder, a horizontal compressor cylinder in line with said power cylinder, a hollow power piston slidable in said power cylinder, a hollow compressor piston slidable in said compressor cylinder and fixed to said power piston coaxially therewith, a piece rigid with said frame and extending into said pistons out of contact therewith, said piece forming a track extending into said piston and parallel to the axis of said cylinders, a shoe movable vertically with respect to said pistons resting slidably on said track, said shoe being located substantially in the plane of the face of said compressor piston which is nearer to said power piston, and elastic means interposed between said pistons and said piece for transmitting a portion of the weight of said pistons to said shoe to apply it against said track.

2,645,214
## TWO-CYCLE REAR PISTON COMPRESSION ENGINE
Eduard Birnstiel, Winterthur-Toss, Switzerland
Application September 1, 1950, Serial No. 182,687
In Switzerland September 5, 1949
3 Claims. (Cl. 123—74)

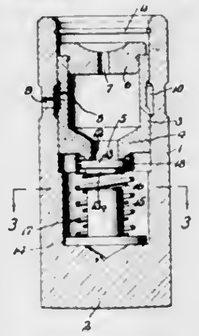
1. A two-cycle internal combustion engine comprising a cylinder, a power piston movable therein, a spark plug and exhaust control means connected with said cylinder substantially at one end thereof, a crankcase connected with the other end of said cylinder, means separating said cylinder from said crankcase, and pump means for forcing a fuel mixture into said cylinder; said pump means comprising a piston which is formed by said power piston, a pump chamber which is formed by said cylinder between said separating means and said power piston, a supplemental pump chamber communicating with said pump chamber and with said cylinder between said power piston and the cylinder end at which the exhaust control means are connected, and a fuel mixture conduit connecting said supplemental





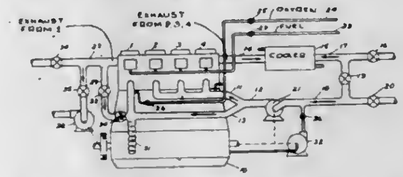
pump chamber and said cylinder and being inclined and directed toward said spark plug for directing a jet of fuel mixture thereto.

2,645,215
## HYDRAULIC TAPPET
Robert C. Moser, Dunedin, Fla., assignor to B. C. Skinner, Jacques B. Skinner, Robert C. Moser, B. L. Skinner, and A. E. Byrne, copartners, doing business as Skinner-Moser Manufacturers, Dunedin, Fla., a partnership of Florida
Application February 11, 1952, Serial No. 270,961
4 Claims. (Cl. 123—90)



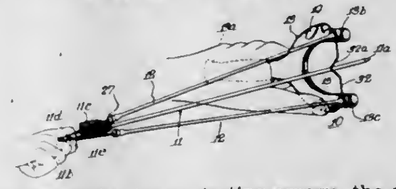
4. In a hydraulic tappet having a hollow body having a closed end, a piston reciprocable therein and a liquid compression chamber between the piston and the closed end of the body, said piston having a liquid passage therethrough leading to the chamber, and spring means acting on the piston normally tending to move the piston in a direction to increase the volume of said chamber, the improvement comprising, a flat valve at the chamber side of the piston and thereagainst adapted to close said liquid passage, spring means of light strength normally moving the valve to passage closing position, and an anvil located in said chamber against which said valve is brought to bear on movement of the piston a predetermined distance in a direction opposite to the spring actuated movement of the piston thereby to force said valve to its seat by positive mechanically applied pressure capable of crushing intervening foreign matter.

2,645,216
## CLOSED CYCLE ENGINE
Lawrence F. Campbell, Silver Spring, Md.
Application January 21, 1943, Serial No. 473,051
8 Claims. (Cl. 123—119)
(Granted under Title 35, U. S. Code (1952), sec. 266)



8. Method of operating a power plant comprised of a plurality of internal combustion engine cylinders in the absence of sufficient atmosphere for combustion wherein all the cylinders are closely coupled, which comprises supplying fuel to all the cylinders for combustion therein, removing exhaust from a relatively small secondary group of cylinders in an amount equivalent to the products of combustion of all of the cylinders, recycling the remaining exhaust gases back to said first mentioned cylinders, adding oxygen to said gases so as to maintain in the intake to a relatively large primary group constituted of all the cylinders except those of the secondary group a substantial excess over that necessary for combustion and to maintain just sufficient oxygen for combustion in the intake to said secondary group.

2,645,217
## CROTCH TYPE ARROW PROJECTOR
Jesse Fisher, Medford, Wis., assignor to George F. Meyer, Medford, Wis.
Application July 18, 1950, Serial No. 174,527
6 Claims. (Cl. 124—20)

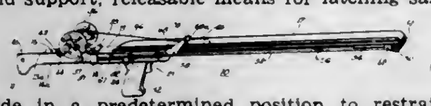


1. In a device for projecting arrows, the combination of a supporting frame comprising a handle, a pair of arms integral with said handle projecting from one end of said handle and disposed in a diverging relation from the junction of said arms and handle, a pair of tubular rubber members, means for attaching adjacent ends of said members to the ends of said arms remote from said handle, a cord interconnecting the other ends of said tubular rubber members, a detachable arrow guide including a V-notch at the center thereof, and means including said means for attaching said members to said arms for holding said arrow guide in position with said V-notch disposed midway between said arms.

2,645,218
## APPARATUS FOR CASTING ARTICLES
Jesse Fisher, Medford, Wis., assignor to Glo-Lure, Inc., Medford, Wis., a corporation of Wisconsin
Application February 9, 1950, Serial No. 143,187
6 Claims. (Cl. 124—21)

1. An apparatus for casting articles comprising an elongated support having a trough shaped

portion, a slide supported for movement along said support, a push plate connected for movement with said slide and having a portion movable within said trough shaped portion, a power strand arranged in the form of a U having the bight of the U supported by one end of said support and the ends of the legs removably connected to said slide, said power strand being capable of having energy stored therein when said slide is moved away from said one end of said support, releasable means for latching said



slide in a predetermined position to restrain movement thereof in response to the energy stored in said strand, a buffer cylinder mounted on said support, an elongated rod mounted beneath said support, a piston slidable in said cylinder connected to one end of said rod, and means for actuating said rod upon a predetermined movement of said push plate following release of said latching means to cushion the movement of said slide and push plate before reaching said one end of said support.

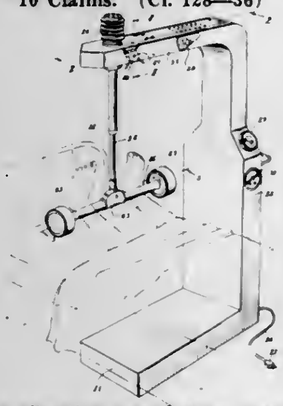
2,645,219

**VIBRATING MACHINE FOR TREATING HUMANS**

**Paul Bertholin, New York, N. Y.**

**Application September 10, 1951, Serial No. 245,809**

**10 Claims. (Cl. 128—36)**



10. In a vibrating machine for the treatment of human bodies, a horizontal base portion, a vertical portion extending upwardly from the base portion, an electric motor connected to the vertical portion and having a shaft depending downwardly therefrom, an operating head element connected to the lower end of the shaft to be driven thereby, means for supporting the operating head element on the vertical portion, said operating head having laterally extending arms and gearing connected to the motor shaft and extending laterally through the laterally extending arms and eccentric weight elements connected to the outer ends of the gearing to be driven thereby and to set up a vibratory action.

2,645,220

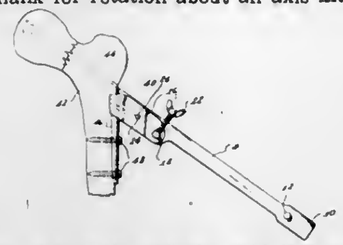
**FRACTURE NAIL INSERTER**

**Alfred E. Gallant and Armas C. Markkula, Los Angeles, and Raymond F. Markkula, North Hollywood, Calif.**

**Application March 16, 1950, Serial No. 150,075**

**8 Claims. (Cl. 128—83)**

1. A fracture nail inserter having in combination: a shank having an end face and two opposite side faces adjacent said end face; a pair of jaw members lying against said side faces, respectively, and having outer ends extending beyond said end face, said extended outer ends having laterally directed jaw portions; means pivotally supporting said pair of jaw members on said shank for rotation about an axis intersect-



ing said side faces, whereby said jaw members may be rotated to move said jaw portions towards and away from said end face; and manually operable jaw actuating means on said shank to swing said pair of jaw members in unison in the same rotary direction to move said jaw portions towards said end face to cooperate with the end face for gripping a fracture nail.

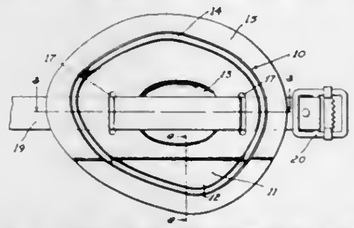
2,645,221

**SURGICAL TRUSS**

**William E. Carter, Anderson, Ind.**

**Application January 2, 1952, Serial No. 264,560**

**4 Claims. (Cl. 128—100)**



1. In a truss structure including a pressure member and flexible supporting belt; a shaped pressure plate, and a flexible protective pad adjacent said plate, said plate and pad having at least two sets of overlying slots therein to receive the flexible belt, said belt thereby simultaneously supporting the truss and holding said plate and pad in assembled relationship.

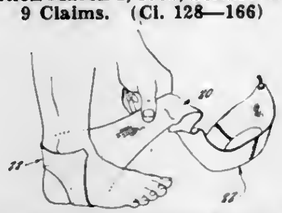
2,645,222

**ANKLE AND FOOT SUPPORT**

**John C. Capossela, North Tarrytown, N. Y.**

**Application March 1, 1952, Serial No. 274,364**

**9 Claims. (Cl. 128—166)**



1. An anatomical supporter for the ankle and foot comprising an elongated bandage section of flexible material of such length as to encircle both the angle and foot, said supporter having a heel engaging pocket at each end thereof.



2,645,223

**INJECTION DEVICE**

**Errol R. Lawshe, Ridgewood, N. J., and John H. Smoot, Darien, Conn., assignors to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey**

**Continuation of application Serial No. 5,336, January 30, 1948. This application February 17, 1951, Serial No. 211,514**

**15 Claims. (Cl. 128—173)**



10. A hypodermic injection apparatus including in combination a body providing adjacent one of its ends an ampule-receiving chamber, a loading cap removably mounted by said body to close said chamber, a stopper-piercing cannula extending inwardly of said chamber and having its outer end terminating substantially in the plane of the outer cap face to define an injection orifice, said body being formed with a bore extending into said chamber, a power projected rod movable through said bore towards said chamber and into cooperative association with an ampule contained therein and manually controlled means extending beyond said body and connected to govern the movement of said rod.

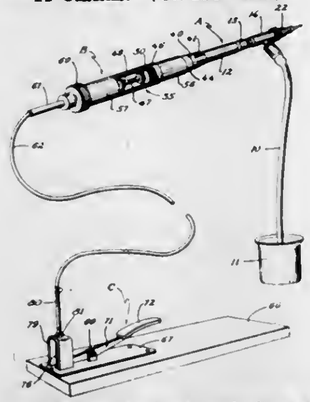
2,645,224

**HYPODERMIC SYRINGE**

**Ward L. Beebe, St. Paul, Minn.**

**Application March 18, 1950, Serial No. 150,524**

**11 Claims. (Cl. 128—218)**



1. A hypodermic syringe including a cylinder having a needle end, a plunger slidable therein, resilient means for urging said plunger in a direction away from said needle end, and means for urging the plunger in a direction toward said needle end, said means including a foot actuated lever, and a mechanical connection connecting said lever with said plunger.

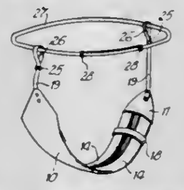
2,645,225

**ADJUSTABLE SUPPORTING DEVICE FOR SANITARY NAPKINS AND THE LIKE**

**Virginia G. Sloan, Springfield, Ill.**

**Application March 14, 1951, Serial No. 215,527**

**3 Claims. (Cl. 128—289)**



1. A device for holding sanitary napkins or the like during use thereof comprising an elongated container member including a lower wall, a pair of longitudinally extending strips, each of said strips being secured to a respective longitudinal edge of said lower wall and projecting toward each other, the inner marginal edges of said strips being transversely spaced to provide an elongated slot, and a plurality of bands extending transversely over said strips from one longitudinal marginal edge of said lower wall to the opposite marginal edge thereof, the ends of said bands being secured to said lower wall along the longitudinal marginal edges thereof.

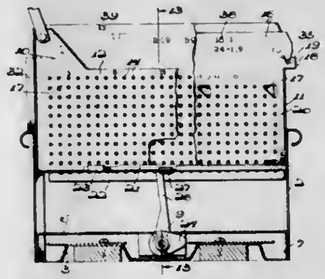
2,645,226

**CODED CARD SEGREGATING MEANS**

**Fred L. Walker, Jr., South Charleston, Ohio, and William E. Story, Jr., Cape May, N. J.**

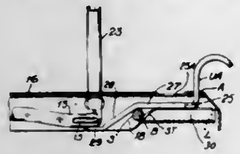
**Application January 16, 1950, Serial No. 138,884**

**15 Claims. (Cl. 129—16.1)**



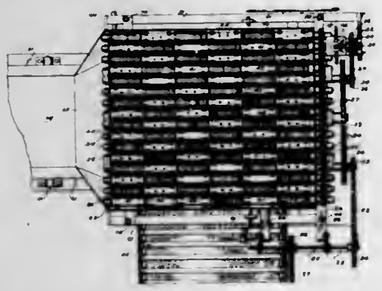
10. In apparatus for segregating cards provided with uniformly spaced apertures and master cut-outs positioned to represent statistical data, a container for the cards, a vertically movable bottomless, rectangular frame in the container, said frame including uniformly apertured transverse plates, rods adapted to be inserted in the apertures of said plates and through the cut-outs of certain of said cards, a selector bar slidably mounted on the frame, means on the selector bar for interlocking cooperation with the cards, and rotatable means for raising and lowering the frame and for moving the selector bar laterally with respect to the frame.

2,645,227
**SIMPLIFIED TRIGGER FOR LOOSE-LEAF BINDERS**
**Samuel Segal, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts**
**Application May 2, 1949, Serial No. 90,842**
**4 Claims. (Cl. 129—24)**



2. In a loose leaf binder, a casing having spaced sides, rockable interlocking toggle frames within said casing and having complementary ring sections extending above said casing, bridge means within and traversing said casing, a trigger in part within said casing and tiltably mounted on said bridge means and including a lip engaging said toggle frames and actuating them to open said ring sections, said casing sides having sloping portions engaging one side of said bridge means, said trigger having a downwardly sloping portion engaging the opposite side of said bridge means and cooperating with the downwardly sloping portions of the casing sides to fixedly retain said bridge means against longitudinal displacement relative to said casing.

2,645,228
**CORNHUSKER HAVING ROLLS OF ALTERNATE METAL AND RUBBER SECTIONS**
**Walter R. Davies, Shakopee, Minn., assignor to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota**
**Application January 19, 1951, Serial No. 206,899**
**2 Claims. (Cl. 130—5)**



1. A corn husking mechanism comprising at least one pair of substantially smooth surfaced rolls disposed side by side to form a generally V-shaped trough therebetween for receiving ears of corn that move from one end of the trough to the other in frictional contact with the rolls, means for rotating the rolls in opposite directions with adjacent surfaces thereof turning downwardly, each roll having a plurality of sections of substantially equal length, the length thereof being at least that of an average ear of corn with alternate sections made of rubber having a high coefficient of friction and intervening sections of metal having a lower coefficient of friction, the sections of the two rolls being alternated so that the rubber sections of each roll operate opposite the metal sections of the other, whereby as an ear of corn moves along the trough it will be alternately frictionally engaged by the oppositely rotating rubber sections of the rolls and thereby intermittently rotated in opposite directions.

2,645,229
**PORTABLE ASH RECEIVER FOR PERSONAL USE**
**Edwin A. Stillman, New York, N. Y.**
**Application January 24, 1950, Serial No. 140,193**
**2 Claims. (Cl. 131—235)**

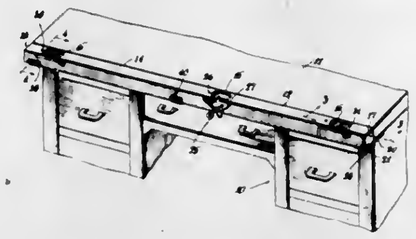


2. A cigarette ash and butt receiver including a casing having a closed bottom and a top providing an open mouth, a closure for said mouth, a hinge connecting said closure to said casing adjacent said mouth so that the closure is adapted to be swung to open and closed positions, a grid constructed to span said mouth and to permit the ash end of cigarettes to be ground thereon, a hinge adjacent the first-named hinge and mounting said grid transversely across said mouth and so that the grid may be swung downwardly to clear the mouth for the deposit of cigarette butts in said casing, a spring arranged to bias said grid against swinging downwardly from a position transversely across said mouth, an operating handle extending upwardly from said grid shaped so that the handle may be finger operated to swing said grid downwardly without finger contact with the grid's upper surface and said handle being contoured and positioned for engagement by said closure so that swinging of the latter closed moves the handle to swing said grid downwardly whereby the force of said spring is transmitted through the handle to the closure to bias the latter to an open position, and a latch for holding said closure closed, a substantially U-shaped member fitting upright in said casing removably retained frictionally therein and having one upstanding end portion mounting the second-named hinge and said spring and the other upstanding end portion providing an abutment for the swinging end of said grid to restrain the spring from swinging the grid upwardly out of said mouth, said member together with said grid and spring and abutment forming a unit removable from said casing.

2,645,230
**SMOKER'S ASH RECEPTACLE**
**Charles F. Knapp, Mariners Harbor, N. Y.**
**Application December 31, 1947, Serial No. 795,032**
**1 Claim. (Cl. 131—241)**

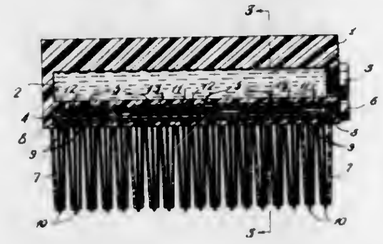
An ash receptacle adapted to be secured to an edge of a desk top flush with the upper surface of said top comprising a receptacle having a rectangular section, a flat top wall having an ash receiving aperture, a front side wall having a narrow elongated slot adjacent the top wall and said aperture, said top wall having a slotted portion connecting said aperture and said elongated slot, a flat gate member movably disposed in the slot below the aperture, and means for pivotally supporting said gate member adjacent to the underside of the top wall whereby the gate may be pivoted in a single plane in and out of said slot to open and close said aperture, said gate member having a transverse groove in its upper portion adapted to receive a cigarette, said groove being





in substantial alignment with the slotted portion of the top wall when the gate member is partially withdrawn from the elongated slot to permit the cigarette to rest in the groove and the slotted portion simultaneously.

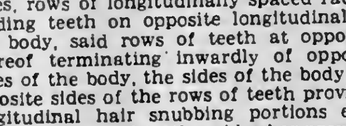
2,645,231
**FOUNTAIN COMB**
**Moses O. Decker, Cleveland, Ohio**
**Application May 29, 1952, Serial No. 290,785**
**5 Claims. (Cl. 132—13)**



1. A fountain comb comprising a body having a reservoir for a liquid and having a chamber therebelow in communication therewith so as to receive liquid therefrom said body having hollow teeth extending downwardly from said chamber and having individual openings at the upper ends thereof to permit flow of the liquid from said chamber, a valve member extending through each of said hollow teeth and in spaced relation thereto and adapted to control the flow of the liquid through the opening from said chamber, and resilient means within said chamber for normally holding said valve members in closed position, and said valve members each extending normally beyond the outlet end of its hollow tooth and being adapted to be opened by engagement of its outer end with the head of the user and against the tension of said resilient means.

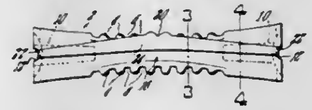
2,645,232
**HAIR CURLER**
**Edmund Quincy Moses and Josephine H. Moses, Scarborough, N. Y.**
**Application June 8, 1949, Serial No. 97,894**
**7 Claims. (Cl. 132—42)**

1. In a curler, the combination of a holder, a rod of rigid material having a waist of reduced diameter and enlarged heads, said rod having a formation on at least one end thereof for removable engagement with the holder for holding the rod in axial alignment with the holder during the curling operation, and a spring clamp pivotally mounted on the holder for pivotal movement about an axis transverse to the axis of the holder and having a clamping portion extending along the rod throughout the major portion of the length thereof for clamping the ends of the hair in initiating the formation of a curl, said holder and clamp being removable endwise from



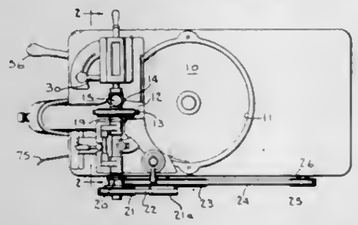
said rod after the curl has been fully wound thereon, a curl-securing binder attached to the end of the rod formed for engagement with the holder, means on the other end of the rod for engaging said binder after the curl is formed, and means on the outer part of the holder for engaging said binder during formation of the curl, said binder when engaged with said means on the holder assisting in temporarily holding the rod in engagement with the holder.

2,645,233
**HAIR CURLER**
**Harold R. Bein, Sr., Westfield, Mass.**
**Application September 5, 1952, Serial No. 308,058**
**1 Claim. (Cl. 132—42)**



A device for windings of the hair of the head for curling and waving and other purposes comprising, a winding arbor and a retainer separate therefrom, said arbor including an elongated rigid generally cylindrical body having opposite end faces and sides which are concaved intermediate opposite ends of the body whereby said body decreases in diameter inwardly from said opposite end faces to a point intermediate said faces, rows of longitudinally spaced radially extending teeth on opposite longitudinal sides of the body, said rows of teeth at opposite ends thereof terminating inwardly of opposite end faces of the body, the sides of the body adjacent opposite sides of the rows of teeth provided with longitudinal hair snubbing portions extending along said rows of teeth, said arbor provided with seats extending inwardly of the end faces thereof and transversely of the longitudinal axis of said body and with implement receiving bores extending inwardly of said end faces, said retainer being in the shape of an elongated member having openings in opposite end portions thereof providing an intermediate transverse bridge portion and transverse opposite ends and being formed from relatively thin resilient and stretchable material whereby said retainer may be stretched longitudinally for insertion of the opposite ends thereof in the seats in the end faces of the arbor and insertion of end portions of the arbor in said openings with said bridge portion overlying teeth intermediate opposite ends of a row thereof and longitudinal side portions of said retainer overlying snubbing portions at the sides of said row of teeth.

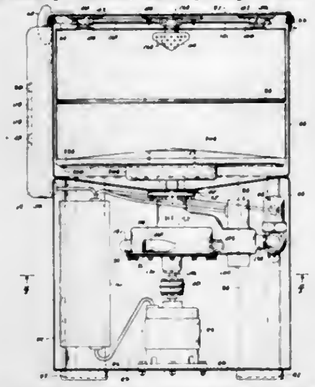
2,645,234
**CONTROL MECHANISM FOR COIN COUNTING MACHINES**
**Arnold R. Buchholz, Watertown, Wis., assignor to Brandt Automatic Cashier Company, Watertown, Wis., a corporation of Wisconsin**
**Application September 12, 1949, Serial No. 115,271**
**4 Claims. (Cl. 133—8)**



1. In a coin counting machine having a driven coin feeding wheel, means to render said wheel operative to feed coins during a count, a control member to render said means inoperative at the end of a count, settable count registering means to operate said control member at the completion of a count of different predetermined small numbers of coins, a shiftable member whose position is controlled by said count registering means for operating said control member and a coin driven member for operating said shiftable member when positioned in operative relation therewith by said count registering means at the end of a count to actuate said control member, said count registering means being also settable to an inoperative position relative to said shiftable member, the combination of count registering means for a count of a large number of coins, means for shifting said last named registering means into operative relation with said coin driven member when said first named registering means is in inoperative position, cooperative means between said shifting means and said first count registering means for preventing the operation of either registering means when the other is in operative position, and means operated by said second named registering means for also positioning said shiftable member in operative relation with said coin driven member at the end of the large number coin count to actuate said control member.

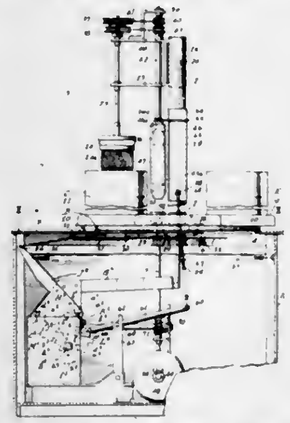
2,645,235
**AUTOMATIC DOMESTIC DISHWASHER**
**Edwin F. Wheeler, Baltimore, Md.**
**Application September 29, 1947, Serial No. 776,649**
**6 Claims. (Cl. 134—58)**

1. In a dish washing machine or the like, having automatic means to sequentially perform cycles of washing, rinsing and drying of dishes, tableware, pots, pans, or like objects, comprising a single wall tub, a watertight cover for said tub, a rotatable basket mounted within the said tub and designed to hold the said objects, an electric motor driven centrifugal pump means having its suction inlet arranged below and communicating with the bottom of the said tub, water and air circulating tubes extending from multiple discharge outlets of the said pump means to various discharge tubes inside the said tub, electrical heating means included within said discharge tubes, an electrically operated water inlet valve, an electrically operated water outlet valve, said centrifugal pump means being adapted to circulate water and air through said circulating and discharge tubes and including hydraulically actuated rotatable vanes, a hydraulic coupling means adapted to rotate said basket and including primary vanes, attached to and rotatable by the said pump vanes, and secondary vanes attached to said basket and hydraulically rotated by its associated primary vanes, said pump when rotated



and circulating water hydraulically imparting rotation to its said included vanes and said clutch primary vanes simultaneously, and said primary vanes hydraulically acting upon and rotating its associated said secondary vanes and the said basket attached thereto.

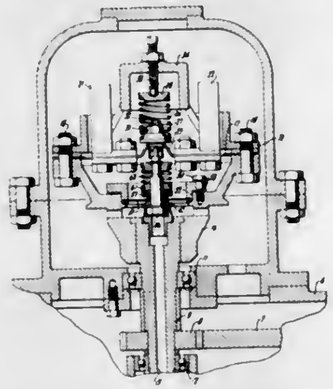
2,645,236
**MACHINE FOR WASHING WATCH PARTS**
**Franklin C. Fisher, San Francisco, Calif.**
**Application November 10, 1947, Serial No. 785,119**
**7 Claims. (Cl. 134—61)**



4. In a machine for cleaning watch parts or the like; a vertical column; a table arranged for rotating around the column; the table having a plurality of liquid-holding containers supported thereon for turning therewith; a slide guided by the column; a basket-supporting frame carried by the slide and movable vertically therewith; a shaft carried by and movable vertically with the frame and having a basket thereon for holding the parts to be cleaned; means for intermittently advancing the table to bring each container in order into a position underneath the basket; motor-actuated means coordinated with the table-advancing means for moving the slide downwardly periodically to lower the basket into each container, and for thereafter elevating the basket above the containers; a housing rotatably mounted alongside the column; the housing having an external clutch cone on its lower end; a driven clutch cone engageable with said external cone when the housing is lowered into engagement therewith; the housing having upper and lower cone seats on the interior thereof; internal upper and lower clutch cones slidably disposed in the housing and being engageable with the upper and lower internal cone seats, respectively, when they are moved axially of the housing; means for driving the basket at a predetermined speed when the lower internal cone engages with the lower internal cone seat; and means for driving the basket at a higher speed when the upper internal cone engages with the upper cone seat of the housing.



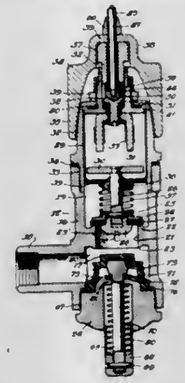
2,645,237
**GOVERNOR HEAD VIBRATION DAMPENER**
**Byron E. Wheeler, San Francisco, Calif., assignor to The Pelton Water Wheel Company, a corporation**
**Application July 11, 1951, Serial No. 236,229**
**6 Claims. (Cl. 137—56)**



1. A governor head vibration dampener comprising a drive tube rotatable about an axis and terminating in a valve seat concentric with said axis, a yoke on said drive tube symmetrical about said axis, a governor strap symmetrical about said axis, fasteners connecting the ends of said strap to said yoke, weights on said strap, a first spring interposed between and engaging said yoke and said strap, a spindle, one end of said spindle engaging said strap adjacent said first spring, a head on the other end of said spindle, a valve disc slidable on said spindle and adapted to seat on said valve seat, a helical second spring surrounding said spindle, a washer abutting one end of said second spring and fixed with respect to said spindle, a ring slidable on said spindle and abutting the other end of said second spring, and a rubber cushion frictionally engaging said spindle and interposed between said ring and said valve disc.

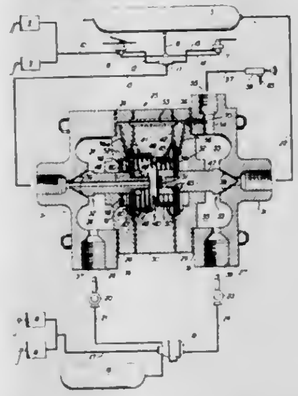
2,645,238
**SAFETY CONTROL DEVICE**
**John H. Thornbery, Whitefish Bay, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application March 10, 1947, Serial No. 733,505**
**10 Claims. (Cl. 137—66)**

1. In a device of the class described, in combination, a valve body having an opening circumscribed at one end by a valve seat, a reciprocatory plunger having an inner end disposed within said valve body, and a flexible bellows secured peripherally to the valve body and forming an impervious covering over the inner end of said plunger, said bellows having a valve seating portion and adapted to be stretched by de-



pression of said plunger to seat the valve seating portion of the bellows against said valve seat to close said opening, the portion of the bellows within the area of the valve seat being adapted to be stretched by further depression of the plunger after said seating portion is seated against the valve seat.

2,645,239
**EMERGENCY SHUTOFF VALVE**
**Charles H. Horn, Sunland, and Sidney H. Smith, Burbank, Calif.**
**Application January 3, 1950, Serial No. 136,522**
**4 Claims. (Cl. 137—87)**

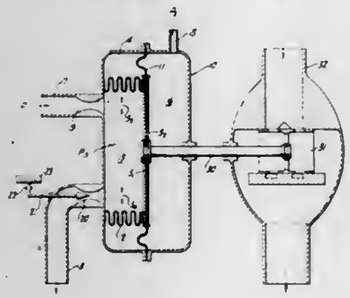


1. In a device of the character described, a casing having a pair of inlets and corresponding outlets, a valve between each inlet and its corresponding outlet, each valve comprising a movable valve stem, said stems in their open positions having their base ends in abutting engagement with each other, one of said stems having an axial bore therethrough, the other stem having means thereon for sealing said bore when said stems are in abutting relation, said casing having a chamber surrounding the said base ends, spring means for urging said stems to separate, said

stems being adapted to be held in their abutting position by fluid pressure acting through said inlets against the action of said springs, a flexible diaphragm for each stem connecting the wall of the chamber to the stem, said diaphragms being spaced apart and having their inner sides facing each other, whereby, when the stems are separated, fluid pressure acting through said bore against the inner sides of said diaphragms will urge the stems to and maintain them in their closed positions.

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**2,645,240**
**PRESSURE CONTROL DEVICE**
**John A. Drake, Los Angeles, Calif., assignor to Marquardt Aircraft Company, Van Nuys, Calif., a corporation of California**
**Application October 11, 1948, Serial No. 53,792**
**6 Claims. (Cl. 137—100)**

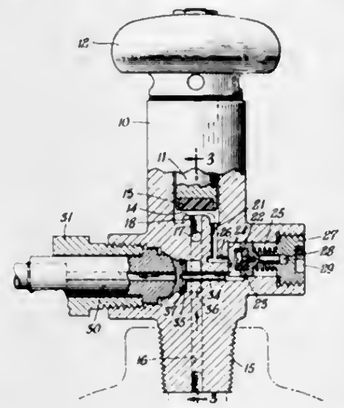


1. A pressure control device comprising a chamber, a pressure responsive member disposed therein presenting opposite sides of areas $S_1$ and $S_2$, means for introducing gas to one side of area $S_1$, means for introducing gas to the other side of area $S_2$, and means for varying the effective gas pressure exerted on area $S_1$, said means comprising an inlet duct having a convergent-divergent section, an outlet duct having a convergent-divergent section and a valve operable to vary the throat area of one of said sections.

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**2,645,241**
**VALVE FOR GAS PRESSURE CYLINDERS**
**Peter M. Riede, Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York**
**Application July 10, 1947, Serial No. 759,973**
**6 Claims. (Cl. 137—235)**

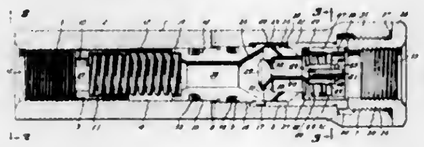
1. A valve for a fluid pressure cylinder comprising a housing, a portion of the housing being provided with means for the attachment of the housing to said cylinder, a passage in said housing for fluid flow to and from said cylinder, a valve stem extending out of the housing, a handle outside the housing for actuating said stem, a valve seat carried by said stem within the housing for closing said passage, said housing being provided with a discharge opening at an end of said passage for the egress of fluid from said cylinder and housing, a second valve between said discharge opening and first mentioned valve for closing said passage in response to pressure in said passage between said valves below a predetermined and superatmospheric value when the first valve is open, said second valve being provided with means for biasing it to a closed position, and means insertable in said housing for opening and holding said second valve open for charging said cylinder, said last mentioned means including a tubular plunger retained in said



housing and shiftable to engage said second valve on charging said cylinder.

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**2,645,242**
**VALVE**
**Carl E. Monnich, Burbank, Calif., assignor to Hydraulic Research & Mfg. Co. Inc., Burbank, Calif., a corporation of California**
**Application April 11, 1952, Serial No. 281,809**
**9 Claims. (Cl. 137—493.9)**



1. A valve comprising a casing having an inlet and an outlet, a hollow valve member between said inlet and outlet, said valve member having an inner piston of a certain size and having an outer piston of larger size and terminating in an internal conical valve head, said valve member having a passage there-through opening into said inlet and into said valve head, said casing having a seat of a size intermediate between the sizes of said pistons, and a spring operating on said valve member and urging said valve head to said seat.

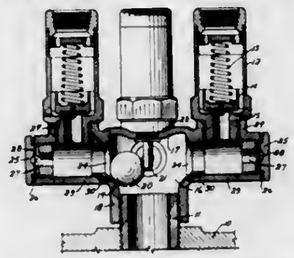
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**2,645,243**
**RELIEF VALVE MANIFOLD**
**Lon D. Turner, Denver, Colo.**
**Application May 17, 1948, Serial No. 27,475**
**5 Claims. (Cl. 137—512)**

1. A manifold for supporting a plurality of relief valves comprising: a cylindrical chamber with a vertical axis; means for admitting fluid under pressure to said chamber; an annular horizontal ball track extending about said chamber adjacent the cylindrical inner wall thereof; a freely rolling ball; an axially positioned abutment supporting said ball against said track and limiting inward radial movement of said ball; a plurality of discharge passages opening from said chamber outwardly through said wall; a ball seat surrounding the entrance of each passage adjacent said ball track so that fluid flowing into any



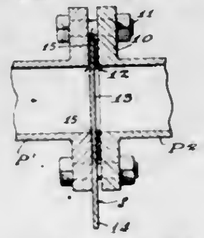
passage will carry said ball against the seat of that passage to close the latter; and means



adapted for connecting each passage to a relief valve for normally closing the passage.

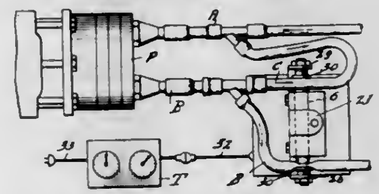
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**2,645,244**
**CLOSE-OFF DEVICE FOR PIPE LINES**
**Amiel F. Klickman, Toledo, Ohio**
**Application August 6, 1948, Serial No. 42,772**
**1 Claim. (Cl. 137—561)**



A line blind for sealing off one normally open end of one member of a jointed pipe line while venting the adjacent normally open end of the adjacent pipe member, wherein the adjacent ends of said members are connected to one another by radially outward flanges having a circular series of uniformly spaced bolt holes with bolt assemblies extending therethrough to connect said flanges in abutting relationship, comprising a transversely imperforate, disk-shaped plate larger than the openings at the ends of said pipe members and having opposite, substantially flat surfaces sealably engageably between the flanges at one of the joints of said pipe line, said disk being of lesser diameter than the diameter of the bolt circle and being unbroken on one side whereby completely to seal off the otherwise open end of one pipe member, the opposite side of said plate having a flat and solid central portion of less diameter than the interior of the adjacent pipe member and a plurality of angularly spaced radial channels in the face thereof emanating from the outer regions of said central portion and extending to the periphery of said plate, whereby to vent the interior of the other pipe member, said channels being substantially uniformly spaced at angular intervals throughout the entire circumference of said plate, whereby, when said plate is clamped tightly between said pipe members, one of said pipe members is vented to the atmosphere while the other of said pipe members is sealed off and a tell-tale handle tab projecting radially outward from the periphery of said plate, said tab being narrower than the spacing between said bolt-holes and of substantially greater radial length than the radial dimension of pipe flanges whereby to project outwardly therefrom when the disk is installed between said flanges.

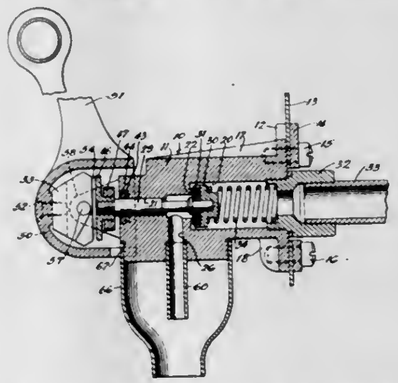
**2,645,245**
**PIPETTE CONTROL MEANS**
**Oliver Maisch, Chicago, Ill.**
**Application August 29, 1951, Serial No. 244,250**
**7 Claims. (Cl. 137—569)**



1. In a pipetting control device, a stationary support, a pinch bar slidable lengthwise in said support, anvils mounted on the support in alignment with and beyond the ends of the pinch bar, the pinch bar having at the middle two lugs spaced apart lengthwise of the bar, a flat, two-position cam bar, wider than the distance between said lugs and having in opposite edges long cam notches displaced somewhat relatively to each other lengthwise of the cam bar, said cam bar being mounted on said support so as to lie between said lugs with either lug being in the deepest portion of the corresponding cam notch and slidable lengthwise, an electromagnet connected to one end of the cam bar to move it into one of its said positions, and a compression spring parallel to the cam bar and resting at one end on said support and engaged at its other end with the cam bar and tending constantly to hold it in its second position.

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**2,645,246**
**MIXING AND DISPENSING VALVE**
**Arthur B. Segal, Springfield, Ill., assignor, by mesne assignments, to General Bronze Corporation, a corporation of New York**
**Application May 26, 1947, Serial No. 750,553**
**6 Claims. (Cl. 137—636)**



1. A mixing and dispensing valve comprising a valve body having a pair of parallel bores each provided with a valve seat intermediate the ends thereof and a discharge passage communicating with each bore adjacent the valve seat, a first valve element slidable in one of the bores and extending outwardly therefrom and cooperating with the seat thereof to vary the flow of fluid therethrough, a second valve element slidable in the other bore and extending outwardly therefrom and cooperating with the seat thereof to

vary the flow of fluid therethrough, an operating member pivoted to the exterior of the valve body transversely of the valve elements and provided with a pair of cams for moving the first and second valve elements away from their seats when the operating member is moved away from a neutral position in one direction and for moving the first valve element away from its seat when the operating member is moved away from the neutral position in the other direction, a baffle member associated with the discharge passage controlled by the first valve element for effervescing the fluid discharged therefrom, and a dispensing nozzle about the baffle member for dispensing fluids from both discharge passages.

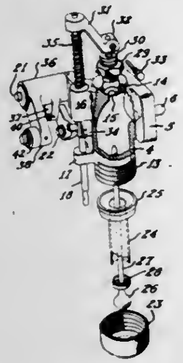
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**2,645,247**

## SPOUT MECHANISM FOR FILLING MACHINES

**Paul R. Fechheimer, Cincinnati, Ohio, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio, a corporation of Ohio**

**Application December 31, 1947, Serial No. 795,113**
**7 Claims. (Cl. 137—747)**



1. A filling spout mechanism comprising a hollow body having a base with a perforation therein for attachment to a filling head, a pair of vertically spaced apart bracket members extending outwardly from said body and perforated for slidably journaling a vertically disposed rod, an actuating rod journaled in said brackets, a block on said actuating rod located between said brackets, an additional bracket member extending laterally from said body mounting a horizontally disposed shaft, a bell crank element mounted on said shaft and operatively connected to said block, said bell crank element including an arm bearing a cam follower, said bell crank acting, when actuated by a cam, to produce axial movement of the said actuating rod, and spring means for biasing said actuating rod in one direction.

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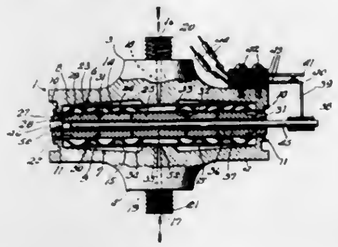
**2,645,248**

## DIFFERENTIAL PRESSURE ACTUATION DEVICE

**John S. Baker, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois**

**Application June 2, 1951, Serial No. 229,549**
**8 Claims. (Cl. 137—787)**

1. A pressure responsive device comprising a housing having opposed diaphragms of a predetermined surface contour, the periphery of each diaphragm being sealed to said housing to form a closed pressure chamber between each of said diaphragms and the housing, a pressure connection leading to each chamber, a plurality of concentric rings between said diaphragms, a centrally disposed member between said diaphragms, said rings having a radial passage



therein extending to and through the outer concentric ring, and an actuating arm of smaller cross section than said passage anchored in one of said rings and projecting through said passage.

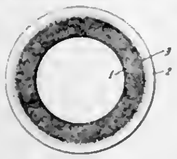
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**2,645,249**

## PLASTIC RESIN TUBING AND METHOD OF MAKING THE SAME

**Elbert Davis, North Hollywood, and Oscar C. Stahl, Los Angeles, Calif., assignors, by mesne assignments, to said Oscar C. Stahl, Los Angeles, Calif.**

**Application April 30, 1949, Serial No. 90,667**
**3 Claims. (Cl. 138—49)**



1. A flexible tubing of a thermoplastic resin selected from the group consisting of polyvinyl chloride, vinyl chloride-vinyl acetate copolymers, and vinyl chloride-vinylidene copolymers, comprising an extruded, seamless, flexible inner tubing of said resin having a substantially concentric outer layer of said resin fused thereto and integral therewith to form a substantially homogeneous tube of said resin, the resin of said extruded inner tube containing at least one additive which imparts high tensile and burst strength and the resin of said outer layer containing at least one additive which imparts high abrasion and weather resistance.

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**2,645,250**

## PATTERN CONTROLLED VARIABLE BEAT-UP AND PILE WARP FEED MECHANISMS

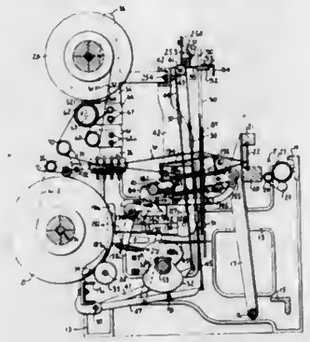
**Ivar O. Moberg, Spray, N. C., assignor to Marshall Field and Company, Chicago, Ill., a corporation of Illinois**

**Application September 22, 1950, Serial No. 186,182**
**10 Claims. (Cl. 139—25)**

1. In a loom having an oscillatable lay and also having means for varying the stroke of the lay and also having an automatic bobbin transfer mechanism and also having means for conditioning the bobbin transfer mechanism for replacing an exhausted bobbin, means automatically operable upon the lay stopping short of the normal beat-up point thereof and upon the bobbin transfer mechanism being conditioned for revoking the conditioning of the bobbin



transfer mechanism so as to prevent a bobbin transfer operation from taking place upon a



stroke of the lay in which the lay stops short of the normal beat-up point.

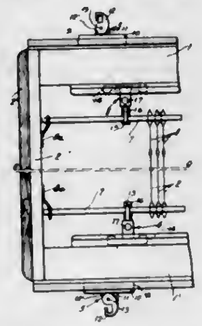
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**2,645,251**

## HARNESS FRAME FOR LOOMS

**Rodolphe Christian Haenny, also known as Rodolf Christian Hänni, Zurich, Switzerland, assignor to Philippe Meyer, Paris, France**

**Application February 21, 1948, Serial No. 10,158**
**In France July 19, 1946**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires July 19, 1966**
**9 Claims. (Cl. 139—92)**



1. In a heddle frame comprising a lateral upright on each frame side, in combination, two cross beams having each end thereof secured to the uprights, each of said cross beams integrally made of one piece and having a full web, and at least the longitudinal edge of said cross beam inside the frame forked into a pair of elongated portions enclosing a groove, the elongated end portions of said pair of elongated portions being bent to themselves inwardly extending vertically for a distance greater than the thickness of said elongated end portions and abutting laterally against the remainder of said elongated portions so as to form a pair of guide rails inside said groove, said pair of guide rails defining a narrowed portion of said groove serving as a guide slot and having substantially horizontal narrow edges located inside said groove serving as guide ways; two heddle bars; heddle bar carriers for connecting said heddle bars to said cross beams shaped so as to be guided in said guide slot and provided with face portions adapted for sliding on said guide ways; and heddles connected to said heddle bars.

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**2,645,252**

## SPRING FORMING MACHINE

**Harry H. Norman, Los Angeles, Calif., assignor to Zig Zag Spring Co., Los Angeles, Calif., a corporation of California**

**Application October 24, 1947, Serial No. 781,953**
**7 Claims. (Cl. 140—105)**



1. A machine for bending wire into zigzag shape having a frame on which is mounted a movable platform, means for causing said platform to have a simple harmonic oscillating motion, reciprocating means for guiding wire over said platform and moving the wire back and forth across said platform, a pair of pins on said platform in spaced relation for contacting the wire on opposite sides thereof and bending it into zigzag shape, said reciprocating means being synchronized with said oscillating platform so that when said platform moves in a direction as to cause said pins to bend the wire, said reciprocating means moves away from the pin which first contacts the wire leaving the reciprocating means, and when the pins are moved in a direction as to retreat from a portion of the wire just bent, said reciprocating means moves in the same general direction as the pin closest it whereby the bent wire is moved across said platform in a manner such as to permit said pins to move around the portion of the wire previously bent to put an opposed bend in the wire, a retainer pin, means for moving said retainer pin including a rotating shaft, a crank mounted on said shaft, a crank arm connected to said crank and to said retainer pin, means to guide said retainer pin toward and away from said oscillating platform, the rotation of said shaft being synchronized with the oscillation of said platform and the ratio of the length of the crank to the length of the crank arm being such with respect the radius about the axis of oscillation of the oscillating pins, that during rotation of said shaft, said retainer pin is so moved toward said platform during a bending operation that said retainer pin tracks each oscillating pin on alternate oscillations of said platform, said retainer pin when moved toward said oscillating platform clamping a portion of the previously bent wire between it and the oscillating pin last mentioned to prevent the rest of the bent wire from weaving during the bending operation and allowing the oscillating pins and said reciprocating means to perform all the bending operation.

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**2,645,253**

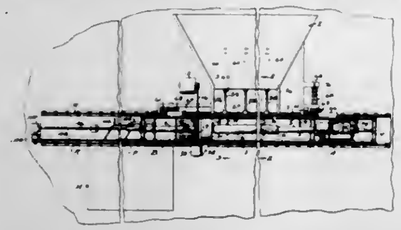
## LOG SHAPING MACHINE

**Edward Wilson, Dubois, Idaho**

**Application June 8, 1948, Serial No. 31,661**
**5 Claims. (Cl. 142—54)**

1. In a log shaping machine, the combination which comprises an elongated horizontally disposed frame, a log receiving cylinder positioned on said frame, log holding carriages on the frame, positioned at opposite ends of the cylinder and mounted to travel longitudinally of the frame for carrying logs through said cylinder, a ram mounted to travel longitudinally in one of said carriages, means for actuating the ram for driving a log longitudinally through the cylinder, means journaling the log receiving cylinder on the frame, means rotating the cylinder, a ring

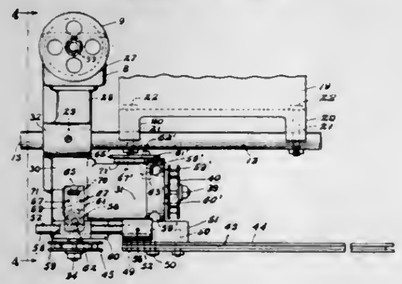
mounted on one end of the cylinder, a plurality of spaced longitudinally disposed shafts journaled in said ring, pinions on said shaft, an internal gear mounted on said frame and positioned to mesh with the pinions on the shafts a plurality



of rotary cutters mounted on extended ends of the shafts positioned to extend beyond the end of the cylinder and into the path of a log passing through the cylinder, and means for removing the finished logs from the carriages.

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**2,645,254**
**TENSION ADJUSTING MEANS FOR CHAIN SAWS OR THE LIKE**
**Carl van Ausdall, Liberty, Ind.**
**Application June 16, 1949, Serial No. 99,417**
**13 Claims. (Cl. 143—32)**

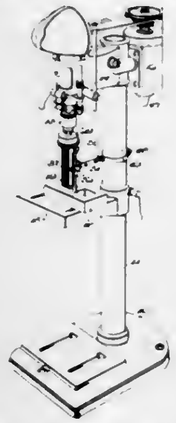


3. A chain saw attachment for application to a motor-driven vehicle, comprising in combination, a portable housing including a pair of bored bosses receptive of a pair of parallel bars extending from the vehicle, means for securing the housing at preselected locations upon the parallel bars, a saw-chain driving sprocket mounted upon the housing in a substantially vertical plane, means for driving the sprocket from the vehicle motor, an elongate flat chain-supporting blade, and cooperative means associated with the blade and the housing, for support of the blade in the plane of the sprocket.

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**2,645,255**
**CHAIN-MORTISING SQUARE HOLE CUTTING ATTACHMENT FOR DRILL PRESSES**
**Anton Francescatti and Richard Micek, Walsenburg, Colo.**
**Application August 20, 1948, Serial No. 45,356**
**1 Claim. (Cl. 144—72)**

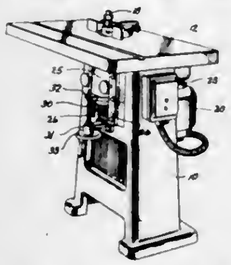
A cutting tool of the character described including a frame having a stock provided with a head and formed with a longitudinal slot therein, a stub shaft rising from said head, a drive shaft journaled through said head and having a gear fixed thereon, a sprocket carried by the drive shaft, a second sprocket journaled upon the lower end of said stock, a cutting chain trained about said sprockets and having its reaches between the sprockets extending parallel to the side walls of said slot, a drive gear meshing with the former gear and having a tubular stem journaled upon said stub shaft, said drive gear being freely removable at the upper end of said stub shaft, fastening means engaging the upper end of the stub shaft and coacting with said stem to removably secure the drive



gear in position, said stem with its fastening means being receivable in the vertically movable chuck of a drill-press for actuation of the stem thereby to rotate the drive gear and turn said chain about the sprockets, and means fixed to the drill-press for locking the frame against rotation and including an element extending through said slot of the stock and adapted to guide the frame vertically as said chuck is raised or lowered.

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**2,645,256**
**ATTACHMENT FOR WOODWORKING SHAPERS**
**Orson P. Smith, Seattle, Wash.**
**Application April 7, 1952, Serial No. 280,919**
**3 Claims. (Cl. 144—136)**



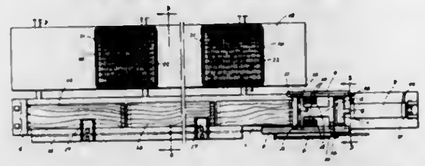
1. An attachment device for a wood working machine of the shaper type which is characterized by a pedestal having a side wall thereof formed with paired vertical guideways, a bearing mounted for vertical adjustment in the guideways, removable cover plates normally applied over said guideways to retain the bearing therein, a driven shaft mounted in said bearing and cutter heads mounted on said shaft; said attachment device comprising a pair of brackets having base portions adapted to be secured over said guideways in lieu of said cover plates to retain the said bearing and having horizontal



arms extended therefrom at the same level, a pair of rails mounted on said arms, a table mounted on said rails for reciprocal travel past said cutter heads, and clamping means on said table for holding pieces of work thereon for engagement by said cutter heads incident to the reciprocal movements of the carriage.

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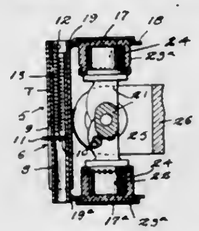
**2,645,257**
**FINGER JOINTING PRESS UNIT**
**Homer H. Dedo, Merced, Calif.**
**Application June 12, 1951, Serial No. 231,239**
**2 Claims. (Cl. 144—288)**



1. A fingerjointing press unit comprising an elongated table, a ram-head slidably mounted in connection with one end portion of the table, power means operative to reciprocate said ram-head, and a stop secured to the other end portion of the table in opposition to the ram-head; said ram-head including a transverse pusher block at its outer end, and means mounting the pusher block for rocking, intermediate its ends, about an upstanding axis; said mounting means including a fulcrum element on the ram-head on which the pusher block rocks, and spring-urged guide rods projecting from end portions of the pusher block through the adjacent portion of the ram-head.

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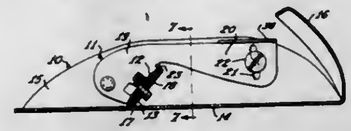
**2,645,258**
**UNIVERSAL JOINT BEARING CUP HOLDER**
**Francis M. Blakeley, Clayton, N. Mex.**
**Application June 4, 1952, Serial No. 291,741**
**3 Claims. (Cl. 144—299)**



1. A needle bearing cup holder for universal joints comprising inner and outer telescopically connected members, socket members, means securing the socket members to remote outer ends of said telescopically connected members in laterally spaced relationship to the axis of said telescopic members, said socket members being disposed normally in alignment and opening inwardly and being adapted to engage against the outer remote ends of a pair of needle bearing cups of aligned spindles of a universal joint for retaining the cups in positions on the spindles, and means resisting displacement of the socket members away from one another and out of engagement with the cups, said means resisting displacement of the socket members away from one another comprising a setscrew threaded radially into an outer one of the telescopic members and engaging the other inner telescopic member, when the setscrew is in an advanced position, to prevent movement of the telescopic members relatively to one another.

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**2,645,259**
**RAZOR BLADE HAND PLANE**
**Edward B. Ackland, Cincinnati, Ohio, assignor to The Dearing Tool & Manufacturing Co., Greenville, Ohio**
**Application October 17, 1950, Serial No. 190,483**
**4 Claims. (Cl. 145—5)**



1. In a hand plane using a razor blade and the like as a cutting edge, a body having a flat bottom constituting a planing surface, said bottom having a slot therein extending transversely to the length of said body, sides extending upwardly from said bottom, and a hand rest, a blade rest fitted between the sides of said body, said blade rest being pivotally mounted to the sides of said body, an arm extending from said blade rest for pivotally moving said blade rest into and away from the slot in said body, a clamping member to overlie a blade placed on said blade rest to clamp said blade in fixed position on said rest with an edge thereof extending beyond said rest, whereby upon pivotal movement of said blade rest toward said slot, said fixed blade will be projected through said slot to the desired depth of cut for said plane, the depth of cut of said plane thereby being adjustable without adjustment of said blade relative to said blade rest.

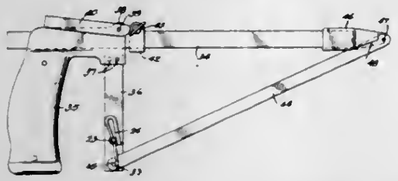
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**2,645,260**
**BUCKSAW FRAME**
**Henry E. Hull, Worthington, Ohio, assignor, by mesne assignments, to Rockwell Tools, Inc., Columbus, Ohio, a corporation of Ohio**
**Application October 22, 1949, Serial No. 122,940**
**1 Claim. (Cl. 145—33)**



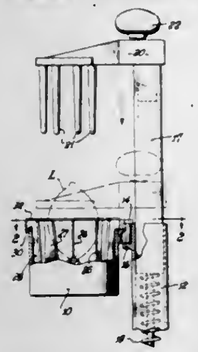
In a saw provided with a substantially bow-shaped flexible tubular frame terminating in two diverging arms, and a saw blade of a length adapted to be connected to opposite outer ends of said bow-shaped frame when said frame is in a compressed, flexed position with means for attaching one end of the saw blade to one of the arms, a clamp slidably mounted on the other arm, said clamp having a frame-encircling portion and two substantially parallel extending flange members extending therefrom and adapted to engage therebetween said saw blade, and a fastening member connecting said flanges and said saw blade and adapted to press said flanges toward each other on either side of said saw blade, the frame-encircling portion of said clamp having an internal diameter which, when said flanges are pressed tightly on either side of said saw blade, is less than the external diameter of said tubular frame portion encircled thereby.

2,645,261
**SAW FRAME STRUCTURE FOR RELEASABLY HOLDING AND TENSIONING SAW BLADES**
Martin S. Swanstrom, Chicago, Ill.
Application August 4, 1950, Serial No. 177,730
3 Claims. (Cl. 145—34)



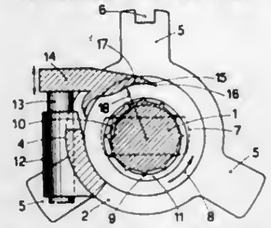
1. A saw frame structure for releasably holding and tensioning a saw blade, comprising a handle having a forwardly-extending upper portion slotted to receive a rail, a plane rail mounted in said slot and movable longitudinally of said handle, an end-piece having a socket receiving the outer end of said rail, a pin carried by said end-piece, a depending bar carried by the forward end of said handle, a pin carried by the lower end of said bar, an abutment member releasably secured to said rail, and a presser member having an intermediate portion thereof supported by a pivot upon said handle, whereby upon the movement of the presser member from vertical position to horizontal position, the forward portions thereof are pressed against said abutment member to move it outwardly for tensioning said saw blade.

2,645,262
**KNIFE ASSEMBLY FOR FRUIT SLICERS**
Vincent Marasco, Los Angeles, Calif.
Application July 5, 1950, Serial No. 172,109
5 Claims. (Cl. 146—3)



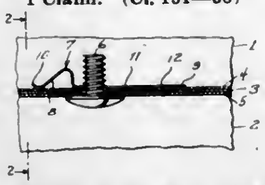
1. A knife assembly for a fruit slicer comprising: a frame; and a plurality of angularly spaced diametral knives mounted on the frame and extending continuously across a cutting zone to intersect a common axis, each of said knives having a pair of upwardly disposed cutting edges that intersect the common axis at a level different from the edges of other blades, the cutting edges of a plurality of blades sloping downwardly from substantially the same level and inwardly toward the axis and the cutting edges of an equal number of other blades, located between said inwardly sloping edges, sloping downwardly and outwardly from the axis for at least a part of their length, all said blades except one having a notch in the side away from the cutting edges to pass over and engage the blade next below.

2,645,263
**MEAT-SKINNING MACHINE**
Walther Stettler, Reinach, Switzerland, and Charles Hummel, Hesingue, France
Application February 13, 1952, Serial No. 271,383
In Switzerland February 19, 1951
10 Claims. (Cl. 146—130)



1. A meat-skinning machine comprising a frame; a feed shaft rotatably mounted in the frame, the surface of said feed shaft having projections adapted to carry along the skin and also being formed with helical grooves; a blade movably mounted in said frame and having a cutting edge extending along said shaft; a helical spring arranged in said groove, said spring having such radial clearance in said groove that, when completely pressed in said groove by pressure of the skin in the region of said blade, said projections extend beyond said spring to engage the skin while, in the region remote from said blade, said spring projects beyond the projections sufficient extent to detach the skin from said projections.

2,645,264
**WEDGE NUT AND STRUCTURE EMPLOYING WEDGE NUTS**
Philip Rosenberg, New York, N. Y., assignor to Universal Steel Equipment Corporation, Long Island City, N. Y., a corporation of New York
Original application February 10, 1945, Serial No. 577,194. Divided and this application November 17, 1950, Serial No. 196,110
1 Claim. (Cl. 151—38)



In combination, a plurality of sheet metal members to be united having aligned bores formed in them, a headed screw having its body passed freely through the bores of said members and its head in engagement with the first of said members, and a wedge nut of resilient sheet metal comprising a substantially flat body portion of substantially uniform thickness, said body portion having a keyhole opening which includes a slot disposed toward a first end of the body portion and an enlargement of the slot disposed toward the second end thereof, an inverted U-shaped portion at said first end beyond the slot and having one leg thereof extended integrally from the body portion and upward away from the body plane at the slotted end of the body and the other leg extending in the opposite direction and long enough when in a normal or unstressed condition to extend across and a short distance beyond the body plane of the wedge nut, said other leg terminating in engagement with the second of the united members, said body portion having at least one of its slot margins at the end adjacent the inverted U-shaped portion clamped positively between a thread of the screw and the second united member with cramping deforming pressure to hold the united parts immovable between the screw head and the nut, and to hold the nut positively against dislodgment, the inverted U-shaped portion being yielding enough to permit a slot margin to be wedged down as stated but being stiff enough to resist strongly downward displacement of the nut body into engagement with the second member to be united.



2,645,265
**PNEUMATIC TIRE AND METHOD OF MAKING SAME**
William F. O'Neil, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 24, 1948, Serial No. 35,026
5 Claims. (Cl. 152—354)



1. In a method of making pneumatic tires wherein a band having continuous beads at each end thereof and a plurality of plies of stretch-resistant elements connecting said beads is formed and said band is expanded to generally toroidal shape and cured in a mold in said toroidal shape, the steps which comprise forming around the entire inner periphery of said band and between the bead portions an inner layer of cured fluid tight, compounded rubbery copolymer of isobutylene and a diolefinic compound, which copolymer contains less than 10% of said diolefinic compound, said inner layer underlying the entire surface of the inner ply of said band and being bonded thereto, expanding said band to a toroidal form by forming a closed chamber in which said cured band is an outer cylindrical wall and introducing fluid under pressure into said chamber while simultaneously moving said beads toward each other, and thereafter curing said toroidally shaped band with the aid of heat and pressure of a fluid incorporated directly into the cavity thereof, whereby necessity of using annular shaped air bags is eliminated.

2,645,266
**REINFORCED RUBBER STRUCTURE AND METHOD OF TREATING NYLON YARN FOR USE IN MAKING SAME**
Ferdinand H. Müller, Roseland, and Paul E. Johnson, Verona, N. J., assignors to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
No Drawing. Application December 13, 1950, Serial No. 200,702
6 Claims. (Cl. 152—359)

1. The method of treating filament nylon yarn for use in composite rubber structures in a manner to resist compression-extension fatigue and thereby increase its flex life, which method comprises applying to the yarn as a pretreating step an aqueous dispersion containing about 2% by weight of an amide of a fatty oil acid, said amide penetrating the outer surface of the yarn and leaving a protective layer of said amide on the surfaces of the yarn filaments substantially throughout the yarn which serves to lubricate the yarn, and thereafter applying to the yarn in its aforementioned condition a rubber compatible resorcin-formaldehyde-latex formulation, said amide acting as a softener for said formulation in contact therewith to prevent embrittlement within the yarn and at the surface thereof, whereby the yarn is maintained pliable, and further acting to protect the yarn filaments against components of said formulation and against degradation by heat during the subsequent drying of the yarn.

2,645,267
**COLLISION UNIT**
Jess L. Elam, Chicago, Ill., assignor to Builders Ornamental Iron Company, Chicago, Ill., a corporation of Illinois
Original application December 9, 1950, Serial No. 200,005. Divided and this application September 26, 1951, Serial No. 248,391
5 Claims. (Cl. 153—32)



1. In an apparatus of the kind described, a pair of spaced apart frame members at least one of which includes a longitudinally extending and horizontally projecting edge portion, a tool beam rested upon and extended transversely between the side frame members for sliding movement longitudinally and transversely thereto, and a retaining member adapted to clamp the beam in a selected position on the frame members, means pivotally mounting said retaining member on said beam at a point adjacent said edge portion, a toe element on the retaining member in position to clampingly engage the underside of said edge portion when said retaining member is pivotally moved theretoward, and another toe element on the retaining member adapted to receive a wedge for wedgingly engaging the underside of said beam to hold the first-named toe element in said clamping engagement.

2,645,268
**WIRE BENDING FIXTURE**
Svend G. Blumensaadt, Beachwood Village, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Original application September 2, 1947, Serial No. 771,592. Divided and this application December 22, 1947, Serial No. 793,111
2 Claims. (Cl. 153—45)

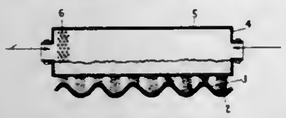


1. In a wire bending fixture a housing, wire supporting means supported by said housing at one side thereof in inclined relation to a hori-

zontal plane through said housing, a tubular, horizontally arranged wire bending member axially rotatably supported in said housing and extended with one end through the wall thereof adjacent said wire supporting means, a shiftable, non-rotatable wire forming member including a supporting shaft arranged partly within said tubular wire bending member in coaxial relation with respect thereto, said wire forming and bending members having cooperating forming and bending end portions positioned adjacent said wire supporting means, and actuating means for said wire forming and bending members including mechanism adapted to actuate said members in timed relation with respect to each other.

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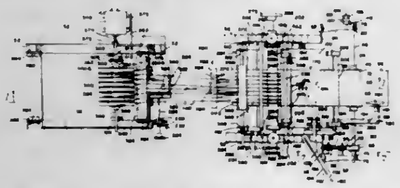
**2,645,269**
**METHOD FOR MAKING CORRUGATED SLABS**
**Carl Herzog, Niederurnen, Glarus, Switzerland, assignor to Eternit A.-G., Niederurnen, Glarus, Switzerland**
**Application June 22, 1950, Serial No. 169,721**
**In Switzerland June 29, 1949**
**1 Claims. (Cl. 154—33.05)**



In a process of manufacturing corrugated slabs, particularly from an asbestos-cement mixture, the steps of placing a wet web of the mixture of substantially uniform thickness on a rigid corrugated sheet so as to cause said web to conform to the shape of said corrugated sheet, sprinkling additional quantities of the mixture along the tops and bottoms of the corrugations of said web, placing a plurality of said sprinkled web and rigid sheet assemblies on top of each other to form a pile in which said sprinkled webs and rigid sheets alternate, and applying pressure to said pile.

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**2,645,270**
**PRODUCTION OF MAGNETIC SOUND TAPE**
**William C. Speed, Riverside, and James J. Dwyer, Stamford, Conn., assignors to Audio Devices, Inc., New York, N. Y., a corporation of New York**
**Application December 21, 1950, Serial No. 201,985**
**12 Claims. (Cl. 154—42.3)**



1. In the method of producing sound-recording and sound-reproducing magnetic tape from a relatively long and narrow tape base coated with finely divided magnetic material, the improvement which comprises advancing the coated tape base from a roll in a charging zone to a main cutting zone; cutting the tape base lengthwise into a plurality of pieces of magnetic tape as it moves through the cutting zone; maintaining the flat faces of the pieces of magnetic tape in edge-to-edge relationship in substantially the same plane as they leave the cutting zone; separating the moving pieces of tape in a separating zone so that they are spaced from one another; giving each piece of tape a partial twist to place the pieces of tape in spaced face-to-face relationship while moving from the cutting zone into the separating zone to prevent lash thereof; giving each piece of tape a reverse partial twist to place the flat faces of the pieces of tape in their former spaced edge-to-edge relationship in substantially the same plane as they leave the separating zone for a winding zone; and winding the spaced pieces of tape separately and simultaneously into rolls as they move into the winding zone, the pieces of tape being wound with their outermost faces the same as the outermost face of the roll of tape base undergoing unwinding in the charging zone.

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**2,645,271**
**BABY JUMPER**
**Wayne W. Call and Lucille W. Call, Afton, Wyo.**
**Application December 4, 1950, Serial No. 198,988**
**2 Claims. (Cl. 155—20)**



1. A baby jumper comprising a resilient support and a flexible baby seat mounted on said support, said support including a cross bar, straps securing the ends of said cross bar to said flexible seat, the ends of said cross bar having open ended slots, said straps having closed loops at their mid-portions received in said slots and closely surrounding adjacent portions of said cross bar; removable fasteners connecting together portions of said cross bar disposed on opposite sides of said slots for closing the open ends of said slots and retaining said straps in said slots.

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**2,645,272**
**SLIDING COUNTER SEAT**
**Carl F. Caramelli, Los Angeles, Calif., assignor to Peter G. Caramelli, Los Angeles, Calif.**
**Application October 11, 1948, Serial No. 53,923**
**14 Claims. (Cl. 155—95)**

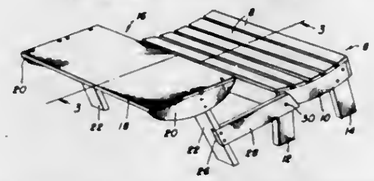


1. An adjustable seating device comprising a seat member adapted to accommodate a person, a support member adapted to stand on a floor, seat mounting means connecting said members for limited lateral sliding movement of said seat member, relative to said support member, and means responsive to a weight imposed on said seat member for holding said members against relative movement, said holding means being effective only after a time delay from the time a weight is imposed on the seat member.



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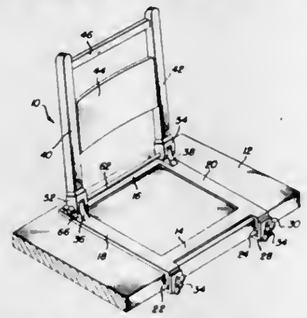
**2,645,273**
**CONVERTIBLE FURNITURE**
**Arley B. Culbertson, Galena, Kans., and Cecil L. Culbertson, Lamar, Mo.**
**Application January 9, 1950, Serial No. 137,588**
**2 Claims. (Cl. 155—124)**



1. A combined table and bench comprising, in combination, a bench embodying a relatively low leg supported seat having a horizontal frame, a horizontally disposed table having a top disposed in a plane above said seat, substantially T-shaped supports for the respective end portions of said top, said supports comprising, depending vertical wings rigidly attached to the underside of said top, and a pair of legs, one leg secured to and depending below each wing, said legs being oblique to said top and being situated between the longitudinal center and one longitudinal edge of said top, and a horizontal member secured at one end to the outwardly disposed edge portion of each leg and disposed at right angles to said leg, said members being spaced upwardly from the lower ends of said legs, being in a plane with said frame and having their remaining ends pivotally connected with the adjacent end members of said frame.

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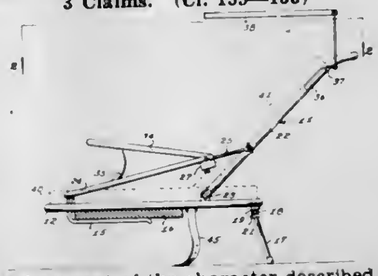
**2,645,274**
**BLEACHER BACK REST**
**Richard Leach, Roxbury, Mass.**
**Application July 1, 1949, Serial No. 102,601**
**2 Claims. (Cl. 155—133)**



1. A back rest for benches comprising a supporting frame having flat upper and bottom surfaces for resting upon a bench, clamping means for securing the front end of said frame to the front edge of a bench, spaced upstanding apertured lugs upon the upper surface of the rear end of said frame, a back rest having side rails terminating in bifurcated apertured ends embracing said lugs, complementary surfaces of the ends and lugs being serrated, a hinge pin journaled in said end and lug apertures for pivoting said back to said frame, said clamping means comprising downturned flanges on the front end of said frame for engaging the front edge of a bench, brackets for underlying the front portion of a bench, a bolt carried by each of said flanges, said brackets having vertical slots each of which has one of said bolts extending therethrough, a wing nut on each bolt engaging said bracket for maintaining said brackets in adjusted position upon said flanges.

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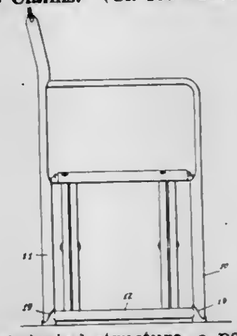
**2,645,275**
**FISHERMAN'S LOUNGING SEAT**
**George L. Wong, Oakland, Calif.**
**Application April 27, 1951, Serial No. 223,359**
**3 Claims. (Cl. 155—133)**



1. A boat seat of the character described comprising a bottom frame, a resilient, hook-like spring clamp secured to the under side of said bottom frame and being arranged to resiliently clamp said frame to a transverse boat seat, a back rest frame pivotally secured to the rear side marginal portions of said bottom frame, respective telescopic strut bars connecting the sides of the back rest frame to the respective forward side marginal portions of said bottom frame, an arm rest secured on each strut bar, an angularly adjustable depending strut bar secured to the rear portion of the bottom frame, and means for retaining the bar in its angularly adjusted position, whereby said strut bar may be adjusted to engage a floor beneath said transverse boat seat.

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**2,645,276**
**JOINT STRUCTURE FOR METAL TUBING**
**Earl C. Booth, Columbus, Ind., assignor to Arvin Industries, Inc., a corporation of Indiana**
**Application September 1, 1949, Serial No. 113,550**
**3 Claims. (Cl. 155—196)**



1. In a fabricated structure, a pair of spaced legs and a stretcher interconnecting them, said

stretcher comprising a metal tube deformed at each end to provide an integral socket projecting laterally of the tube in one direction to form a foot and opening laterally of the tube in the opposite direction, the ends of said legs being received and secured in said sockets, each socket having a bottom overlapping the lower end of the associated leg.

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2,645,277

## WELDING AND CUTTING TORCH

Charles R. Richter, Schenectady, N. Y.

Application November 23, 1948, Serial No. 61,719
1 Claim. (Cl. 158—27.4)



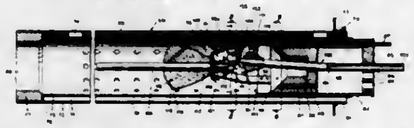
A combined welding and cutting torch adapted for use with a combustible gas drawn directly from a source of supply thereof, such as a city gas main, under low pressure of the order of less than one pound per square inch; said torch comprising a torch pipe; a tip secured to the end of said pipe and having a comparatively small centrally-disposed discharge opening therein and a plurality of comparatively large openings around said central opening; said larger openings communicating with said pipe; passage-forming means communicating with said pipe adapted to conduct said gas from said source of supply thereof to said pipe and forming with said pipe a substantially straight passage of substantial cross-sectional area throughout the major portion of the length thereof, whereby to provide for the free flow therethrough of said gas under said low pressure; means forming a comparatively short, Venturi-like restriction in said passage; a nozzle centrally disposed in said passage in a zone relatively remote from said tip to provide for the free flow of said gas therearound and cooperating with said restriction to form an injector; means communicating with said nozzle for conducting oxygen thereto from a source of supply thereof under comparatively high pressure; whereby the discharge oxygen from said nozzle will induce a flow of said gas from the zone around said nozzle through said restriction; the cross-sectional area of said passage increasing rapidly from the discharge side of said restriction to reduce back pressure on the gas flowing through said restriction; means for conducting oxygen directly from said source of supply thereof to said centrally-disposed discharge opening in said tip, and a valve having an actuating lever adapted to be manipulated by an operator for controlling the flow of oxygen through said last mentioned means; said tip having a threaded portion adapted to cooperate with interchangeable nozzles for converting said torch from a welding to a cutting torch and vice versa.

2,645,278

## IGNITION SYSTEM AND MEANS FOR INITIATING COMBUSTION OF FUEL IN A FUEL BURNER

Harry B. Holthouse, Sr., and Harry B. Holthouse, Jr., Chicago, Ill., assignors, by mesne assignments, to Harry B. Holthouse

Application April 20, 1949, Serial No. 88,602
3 Claims. (Cl. 158—28)



1. In a liquid fuel burner the combination with means forming an elongated combustion chamber, means for supplying liquid fuel under pressure to said combustion chamber, and means for supplying combustion air under pressure to said combustion chamber, independently of said fuel supply, for forward flow longitudinally therethrough, of an ignition system including front and rear elongated electrodes arranged in adjacent end to end relation longitudinally within said combustion chamber, means providing for an arc discharge between the adjacent ends of said electrodes, said adjacent ends of the electrodes being longitudinally and laterally spaced from each other, a ceramic member surrounding the front one of said electrodes having a cavity therein, said front electrode having the arc end thereof terminating in the bottom wall of said cavity so that the arc discharge is directed to travel within said cavity and along a portion of the cavity side wall prior to its passage to the arc end of the rear electrode, means for directing only a part of the liquid fuel from said fuel supply means to said ceramic member and the cavity therein for ignition by the arc discharge, and means on the arc end of said rear electrode for deflecting the flow of combustion air against direct entrance into said cavity so that the combustion air about said cavity is in a quiescent state, with said portion of the fuel, on ignition thereof, being dispersed away from said cavity into said flow of combustion air to initiate ignition of the other portions of fuel supplied to said combustion chamber.

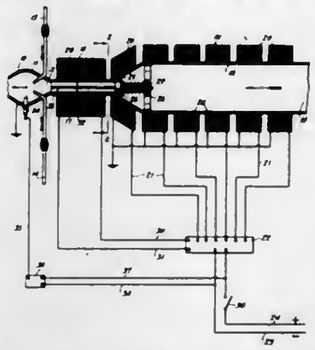
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2,645,279

## MAGNETIC FUEL FEEDING APPARATUS

Peter F. Rossmann, Morristown, N. J.

Application March 7, 1945, Serial No. 581,481
8 Claims. (Cl. 158—36.3)



2. The combination in a device for conveying a magnetic fuel of a hollow tube reduced intermediate its ends to form a conical valve seat providing a tube of relatively large diameter on one side of the seat and a tube of relatively small diameter on the other side of the seat, electric coils surrounding the tube of large diameter to form a magnetic pump, a coil surrounding the tube of small diameter to form a magnetic valve, a valvular element normally engaging said seat, said valvular element provided with a stem extending therefrom into the small diametered tube, a part of said stem being formed of magnetic material and forming the armature of the magnetic valve.



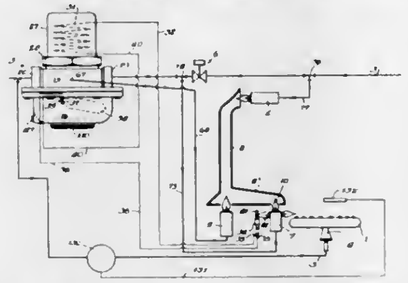
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2,645,280

## SINGLE POINT IGNITION

Ernst Witzel, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin

Application April 30, 1947, Serial No. 744,905
15 Claims. (Cl. 158—124)



4. In apparatus of the class described, in combination, a first constantly burning pilot burner, a burner remote from said pilot burner, a second pilot burner in proximity to said burner for lighting same, a third pilot burner intermediate said first and second pilot burners for assuring ignition of said second pilot burner from said first pilot burner, a fuel supply line having fuel supply connection with said main burner and fuel supply connections with said pilot burners for supplying fuel to said burner and said pilot burners, valve means to open and close said fuel supply line posterior of the fuel supply connection to said first pilot burner, a first valve member in said fuel supply line on the outlet side of said valve means and posterior of the fuel supply connection to said second pilot burner, said valve member having an open position for flow of fuel to said burner and closed position shutting off the flow of fuel to said burner, a second valve member in said fuel supply line on the outlet side of said valve means and posterior of the fuel supply connection to said second pilot burner, said second valve member having means responsive to the pressure of the fuel in said fuel supply line when said valve means is opened and operable by the fuel pressure to open position only when said first valve member is closed for the flow of fuel to said third pilot burner, the pressure responsive means of said second valve member being responsive to equalizing fuel pressure for closing of said second valve member when said first valve member opens, a thermoelectric generator subject to the heat of said second pilot burner, an electromagnet adjacent to said first valve member and connected in circuit with said thermoelectric generator for operating said first valve member to open position, a switch in the circuit for said electromagnet and said thermoelectric generator, and means responsive to the pressure of the fuel in said fuel supply line on the inlet side of said first valve member for actuating said switch to closed position.

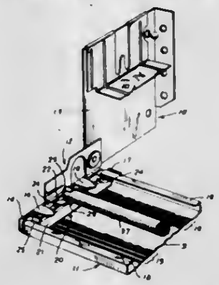
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2,645,281

## FASCIA BOARD AND END FITTING THEREFOR

Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York

Application May 18, 1948, Serial No. 27,773
11 Claims. (Cl. 160—38)



1. An end fitting for adapting a sheet metal Venetian blind fascia board having rearwardly- and inwardly-directed longitudinal edge portions extending throughout its length and defining the top and bottom and rear faces thereof for support by a bracket having spaced, generally parallel fascia board engaging flanges, said end fitting comprising a metal stamping having spaced, generally parallel flanges telescopically engageable with the fascia board with one flange lying against the front face of the fascia board and a pair of resilient rear flanges adapted to be engaged beneath the inturned longitudinal edges of the fascia board and projecting centrally from the ends of the fitting for engagement by a fascia board engaging flange of the bracket.

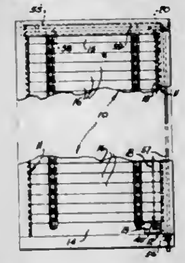
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2,645,282

## VENETIAN BLIND

Jaime Colom Grau, Tarrasa, Spain

Application June 21, 1951, Serial No. 232,729
3 Claims. (Cl. 160—133)

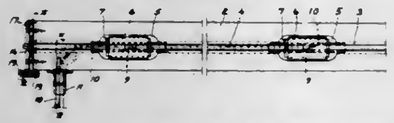


1. A Venetian blind comprising, in combination, a plurality of horizontal slats pivotally adjustable intermediate an upper and a lower guide, a channel member vertically formed on each side of an opening substantially covered by the blind, each channel member being defined by spaced parallel inner and outer strips with the outer strips extended further inwardly than the inner strips, the guides being slidably disposed in the channel members and the slats at both ends being adjacent the inner surface of the outer

strips and spaced from the inner ends of the inner strips, a locking mechanism reciprocal in the inner strip of at least one channel member for releasably locking the slats in the vertical position thereof, a catch disposed at one end of the lower guide coacting with the locking mechanism in the upward movement of the lower guide, and a cam adjustment mechanism disposed on one end of the lower guide and adapted to move the slats intermediate the vertical and horizontal positions thereof in the unlocked position.

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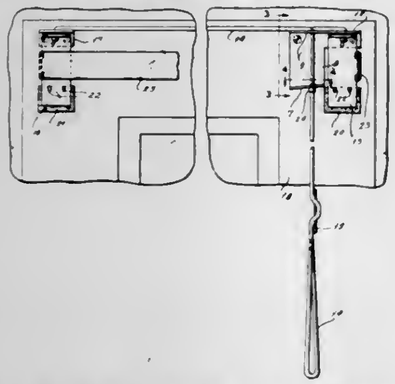
**2,645,283**
**DEVICE IN VENETIAN BLINDS OR THE LIKE**
**Göte Johansson, Nykoping, Sweden**
**Application October 4, 1950, Serial No. 188,369**
**In Sweden October 8, 1949**
**2 Claims. (Cl. 160—176)**



1. In a Venetian blind having a head rail, ladder tapes suspended from the head rail, and horizontal slats supported on the ladder tapes, a groove extending throughout the length of the head rail in the upper surface thereof, openings in the head rail communicating with said groove and extending to the bottom surface of the head rail each providing a passage for a ladder tape, a shaft lying loosely in the groove, friction rollers fixed on the shaft each in alignment with one of the openings, the ladder tapes being looped over the rollers, and means for rotating the shaft in either direction.

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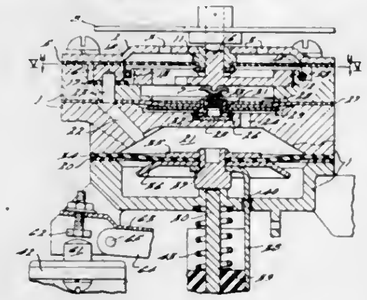
**2,645,284**
**CORD LOCKING MEANS**
**Ida Lundstrom, St. Louis, Mo.**
**Application July 22, 1950, Serial No. 175,372**
**2 Claims. (Cl. 160—339)**



1. In a pull cord operable curtain rod assembly of the type described: the combination of a cord looped intermediate the ends thereof which are attached to horizontally spaced curtain rod carrier members included in said assembly; a bracket including a body portion secured to the lintel member of a window frame; upper and lower inwardly projecting flanges and a lateral extension integral with said body portion; a pair of alined circular openings formed in said upper flange to the left of the vertical centerline of said bracket; a single circular opening formed in said upper flange to the right of said centerline; an irregular opening formed in said lower flange approximately on the vertical centerline of said bracket, said opening including a pair of elongated slot portions extending to the right and merging into a relative large substantially circular portion extending to the left of said centerline; and a pair of split collars removably affixed to segments of said cord and adapted in the raised position of said assembly to engage the underside of said lower flange portion, as the segments of cord immediately above said collar enter the elongated slot portions of the irregular opening aforesaid.

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**2,645,285**
**TIMER**
**Carl A. Schaefer, Whitefish Bay, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan**
**Application April 26, 1949, Serial No. 89,651**
**22 Claims. (Cl. 161—1)**



1. In a timing device, a chamber, means movable to effect expansion and contraction of the volume of said chamber, means biasing said first mentioned means for movement in one direction, means for moving said first mentioned means in the opposite direction against said biasing means, means including a capillary tube of a generally circular form communicating with said chamber through which fluid passes as the chamber volume is varied, means providing for free passage of fluid as said first mentioned means moves in the opposite direction, means for limiting the path for passage of fluid into said chamber to said capillary tube as said first mentioned means moves in said one direction to determine the timing period, and a flexible elongated filament adjustably insertable into said capillary tube to vary the timing period by varying the resistance to flow of fluid between the inner surface of said capillary tube and the outer surface of said filament.

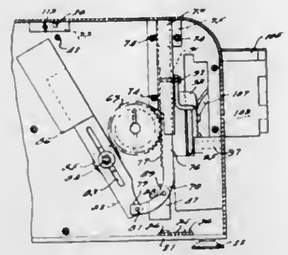
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**2,645,286**
**TAPE DISPENSING DEVICE**
**George H. Boyd, Royal Oak, Mich.**
**Application August 2, 1946, Serial No. 688,110**
**7 Claims. (Cl. 164—42)**

1. In a tape dispensing device, a base, a pair of spaced walls in said base, a tape dispensing cylinder supported between said walls means on said walls for supporting a roll of tape adjacent to said tape dispensing cylinder, a shaft projecting through said walls on which said cylinder is free to rotate, means fixed to said shaft for driving the cylinder in one direction for dispensing tape while permitting the shaft to be operated



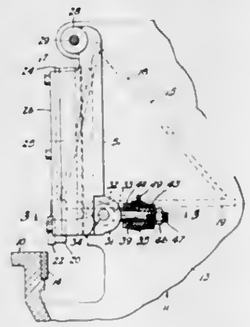
in a reverse direction without driving said cylinder, a cutting bar disposed adjacent to said cylinder, a cutting blade pivoted adjacent to said cutting bar, a gear secured on said shaft, a vertically movable rack engageable with said gear, means for disengaging the gear and rack when



the cylinder is driven for dispensing tape and for producing the engagement thereafter when the shaft is driven in a reverse direction and a link interconnecting the rack and cutting blade for moving the blade across said bar upon the movement of said shaft in said reverse direction.

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**2,645,287**
**ADJUSTABLE GUIDE FOR SHEAR KNIVES**
**Frederick E. Munschauer, Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y.**
**Application October 6, 1948, Serial No. 53,128**
**3 Claims. (Cl. 164—47)**



3. In a machine for shearing metal sheets and the like, a pair of end frame means and a bed extending therebetween and fixed rigidly thereto, said bed including a work table having a stationary lower shear knife fixed to the rear edge thereof, each of said end frame means comprising a wall portion extending above and rearwardly of said work table, said wall portions being spaced in the direction of shearing, a reciprocable crosshead including an upper shear knife, slideway means for guiding the opposite, end portions of said crosshead in a generally vertical path of movement to effect shearing strokes, means pivotally connecting said slideway means to the forward ends of said wall portions at the upper ends of said slideway means, and means on said end frame means for selectively pivotally adjusting the slideway means in a direction transverse to the plane of the knives for adjusting the clearance between the knives.

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**2,645,288**
**BACK CIRCULATOR DEVICE**
**Bruce A. Deters, Glendale, Calif., and William W. Butler, Sidney, Nebr., assignors, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware**
**Application July 23, 1951, Serial No. 238,134**
**6 Claims. (Cl. 166—1)**



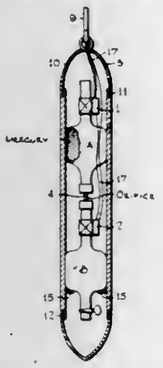
1. In combination with a drill pipe to be suspended in a well bore having a formation tester suspended from its lower end, such tester including a packer to divide the bore into an upper zone and a lower zone, said tester including operable valves to open and close said tester to admit fluid therein from the lower zone and to close the tester against loss of said fluid from the tester, of a reverse circulating valve interposed in said drill pipe a substantial distance above the tester packer whereby a sample of formation fluid may be entrapped therebelow, said reverse circulating valve comprising a tubular valve housing having a port in its wall communicating the exterior of the housing with the interior of the housing, means for connecting the housing between two sections of drill pipe, a sleeve slidably disposed within the housing and covering said port, and impact responsive means for releasably retaining the sleeve in such position responsive to an impact to release the sleeve for downward movement to uncover the port, said last named means including an annulus having inwardly extending deformable fingers upon which said sleeve is supported, an impact producing member having a dimension greater than an internal dimension of the sleeve whereby dropping said member down the drill pipe against said sleeve effects downward movement of the sleeve to port uncovering position to enable circulation of fluid downwardly externally of the drill pipe, through said port and upwardly through said drill pipe above the trapped sample.

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**2,645,289**
**DISPLACEMENT TYPE SAMPLER**
**William J. Leas, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application September 16, 1947, Serial No. 774,205**
**4 Claims. (Cl. 166—1)**

3. Improved displacement type sampler for borehole fluids comprising an upper chamber filled with a liquid of greater density than the fluids to be sampled, said chamber having an exterior port, a valve in said port, a lower evacuated

chamber, a conduit connecting the upper and lower chambers, said conduit including a restric-



tive orifice, a second valve in said conduit, and means for opening and closing said valves at selected times.

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**2,645,290**
**JUNK BASKET**
**William W. Fortenberry, Perryton, Tex.**
**Application September 23, 1949, Serial No. 117,362**
**6 Claims. (Cl. 166—19)**



1. In a junk basket including an elongated casing having upper and lower ends, an upper head secured to the upper end of said casing, a milling head secured to the lower end of said casing and including a reduced upper portion extending upwardly into the lower end of said casing, an inner elongated tubular member disposed axially within said casing between said heads and having an upper threaded end, said upper head having an internally threaded axial recess receivably engaging the upper end of said tubular member, a flange on the outer periphery of said tubular member at its lower end and seated on the upper reduced portion of said milling head, the inner periphery of said casing being spaced laterally from the outer periphery of said tubular member to define a fluid entrance chamber about said tubular member, said upper head having a blind bore in its upper end and entrance passages communicating with said chamber and said bore, said upper head also having outlet passages communicating with said recess, and spray nozzles on the inner periphery of said tubular member and inclining upwardly toward the upper end of said tubular member and communicating with the fluid entrance chamber about the tubular member.

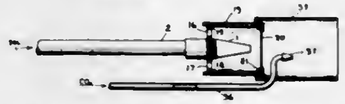
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**2,645,291**
**HYDRAULICALLY FRACTURING WELL FORMATION**
**Vanderveer Voorhees, Los Altos, Calif., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**No Drawing. Application October 29, 1948, Serial No. 57,401**
**11 Claims. (Cl. 166—21)**

3. The method of developing passages for liquids through an underground formation adjacent deep well bores which comprises injecting into said formation under high pressure of between about 1000 and 15,000 p. s. i., a slurry of finely divided water-soluble and water insoluble solids in oil thereby fracturing said formation, said water-soluble solids having a particle size of about 150 to 400 mesh and comprising about 1 to 10 pounds of solids per gallon of oil, retaining said slurry in said formation until said water soluble solids are substantially dissolved in water present in said formation and then withdrawing the solution of water-soluble solids and oil from said formation leaving the water insoluble solids within the formation to provide a permeable channel.

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**2,645,292**
**APPARATUS FOR EXTINGUISHING FIRES**
**Evan Clifford Williams, Wilton, Conn., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
**Application April 16, 1951, Serial No. 221,231**
**2 Claims. (Cl. 169—15)**



1. A fire extinguishing apparatus for producing fire extinguishing fog foam which comprises a jet designed to convert foam-forming liquid into fog, a screen spaced from and in front of said jet, and a nozzle secured just in front of said screen and substantially parallel to said jet for applying a gas under pressure to increase the flow of fog foam in a forward direction.

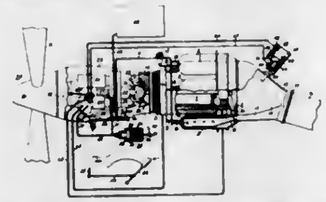
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**2,645,293**
**APPARATUS FOR REGULATING PROPULSION POWER PLANTS**
**Hugh M. Ogle and Donald E. Garr, Schenectady, and Martin A. Edwards, Scotia, N. Y., assignors to General Electric Company, a corporation of New York**
**Application September 14, 1946, Serial No. 697,058**
**10 Claims. (Cl. 170—135.72)**

4. In regulating apparatus for a gas turbine propulsion powerplant with a rotor driving a variable pitch propeller, means for automatically controlling the propeller pitch to maintain torque supplied to the propeller substantially constant at a selected value, and means responsive to rotor speed for automatically controlling the supply of fuel to the powerplant to maintain rotor speed substantially constant, the combination of means engaging and exerting a biasing force on the pitch control means in the direction to reduce said



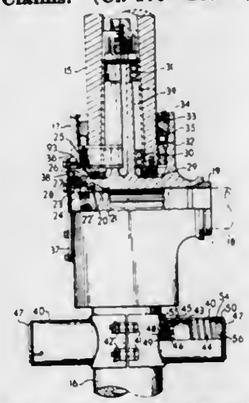
selected value, means responsive to a temperature condition appurtenant to the operation of the powerplant, means positioned by said temperature responsive means connected to said biasing means for varying the force thereof whereby said pitch control means is caused to move in a direction to



decrease said selected torque value upon a predetermined rise in temperature, and means positioned by said temperature responsive means connected to the fuel control means to reduce the fuel supply upon a predetermined further rise in temperature.

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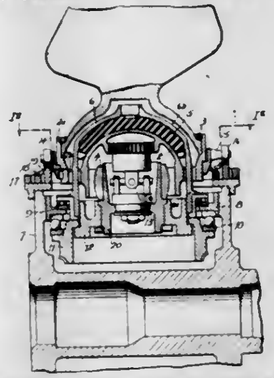
**2,645,294**
**VARIABLE PITCH PROPELLER**
**Elwood M. Douthett, Darby, Pa.**
**Application October 7, 1948, Serial No. 53,236**
**9 Claims. (Cl. 170—160.16)**



1. A variable pitch propeller assembly comprising a hub portion; a propeller blade rotatably mounted in said hub portion to provide pivotal pitch changing movement of said blade with respect to said hub portion; a friction reducing bearing disposed between said blade and said hub portion; a variable lever system attached to said blade to apply pitch changing moment thereto; said lever system comprising a guide member secured to said blade and projecting laterally therefrom; said guide member protruding from the plane of rotation described by said blade during rotation of said propeller assembly; a counterweight carried by and movably mounted with respect to said guide member; a retaining means formed as a portion of said guide member; a yieldable resisting means interposed between said counterweight and said retaining means, said yieldable resisting means being engaged with said counterweight and said retaining means; said counterweight being urged to move along the longitudinal axis of said guide member in response to centrifugal force during rotation of said propeller assembly, and said counterweight movement being yieldably resisted by said yieldable resisting means, thereby providing a variable leverage for pitch changing movement of said blade during rotation of said propeller assembly.

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**2,645,295**
**SELF-ADJUSTING PROPELLER BLADE**
**Robert Doussain, Vitry-sur-Seine, Robert Bousson, Lyon, and Louis Perrier, Seto, France, assignors to Office National d'Etudes et de Recherches Aeronautiques, Paris, France, a company of France**
**Application July 12, 1948, Serial No. 38,304**
**In France July 12, 1947**
**3 Claims. (Cl. 170—160.56)**



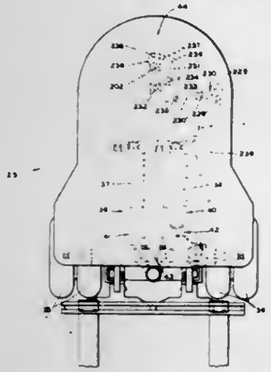
1. A variable pitch propeller comprising a hub, a plurality of blades, socket members mounted on said hub for rotation around axes extending radially with respect to the axis of the hub, blade carrying members engaged with said socket member for rotation therewith to different pitch positions and each carrying one of said blades, a Cardan joint connecting each said socket member with the corresponding blade carrying member, said Cardan joint transmitting rotational movement from the socket member to the blade carrying member while permitting free swivel movement of the latter, thrust means interposed between the socket member and the blade carrying member for relieving said swivel connection of centrifugal force, and guiding means for guiding and supporting said blade carrying members in each pitch position of the blades in a position corresponding substantially to the free swivel position thereof, said guiding means comprising, for each blade, a plurality of shafts projecting from the blade carrying member, a roller journaled on each shaft, and inclined guiding surfaces mounted on the socket member and disposed along arcs of circles centered on the longitudinal axis of the socket member, said rollers running on said guiding surfaces.

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**2,645,296**
**COMBINATION STEERING, CLUTCH, AND THROTTLE CONTROL**
**George L. Turner and Robert Lapsley, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
**Application September 16, 1949, Serial No. 115,982**
**10 Claims. (Cl. 180—6.34)**

8. In a control system for an industrial truck having an operator's steering wheel and a pair of driving wheels each having associated therewith an engine, electro-dynamic clutch means having forward and reverse drive clutches, and a transmission, the combination of apparatus including

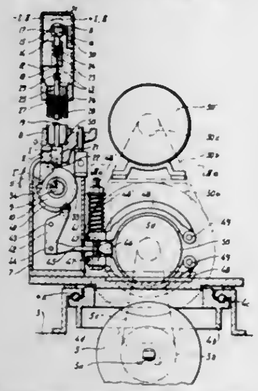
a plurality of switches for effecting energization of said clutches, a cam having a serpentine groove formed therein, said cam being rectilinearly movable in response to rotary movement of the steering wheel thereby effecting actuation of said switches for controlling the electrical energization of none or one of the forward and reverse



drive clutches of each of the electro-dynamic clutch means, a follower having association with said serpentine groove of said cam, and said follower having connection to a rocker member having plunger members associated therewith for controlling the positions of the throttle of each engine.

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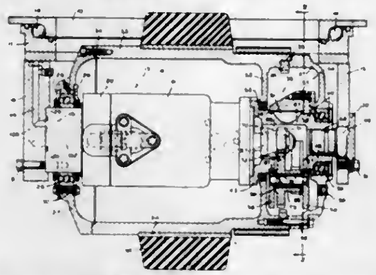
**2,645,297**
**HANDLE CONTROL FOR ELECTRICALLY DRIVEN LIFT TRUCKS**
**Olov Carl Gustav Wennberg and Curt Erik Simon Wennberg, Karlstad, Sweden**
**Application April 29, 1949, Serial No. 90,362**
**In Sweden May 7, 1948**
**9 Claims. (Cl. 180—65)**



3. A control mechanism for motor driven lift trucks, comprising a housing, a shaft keyed to the housing, a cam keyed to said shaft, an operating lever journalled on the shaft and pivoted to the housing to be swingable to various positions within a certain angle, an operating member mounted rotatably on said operating lever for adjustment to various operating positions corresponding to various motor speeds and driving directions, said member having a supporting surface, a blocking rod having one end portion formed with a blocking surface for cooperation with said supporting surface, said supporting surface having edges at opposite sides of a plane including the axis of rotation of the operating member, the other end portion being adapted to cooperate with the cam, the blocking rod being slidably mounted in the operating lever to take different positions relatively to said supporting surface as the operation lever is set to different angular positions relatively to the cam and the blocking rod engages different points of the cam.

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**2,645,298**
**HYDRAULIC FLUID MOTOR-IN-WHEEL**
**Frederick E. Hawkins, Niles, Robert Lapsley, Berrien Springs, and George L. Turner, Buchanan, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
**Application July 22, 1950, Serial No. 175,377**
**5 Claims. (Cl. 180—66)**



1. A motor-in-wheel construction comprising, a pair of vertically extending spaced apart plate members, a hydraulic fluid motor including a casing disposed intermediate said plate members, a pair of end cap members one secured to each end of said casing, one of said end cap members at the outer end thereof being adapted to seat within an opening in the adjacent plate member, means for mounting the other of said end cap members to the adjacent plate member, a rotatable wheel housing disposed about said fluid motor intermediate said plate members, the ends of said rotatable wheel housing being journaled on said end cap members, said one end cap member having a pair of cavities formed therethrough, said cavities adjacent their outer ends being adapted to be placed selectively in communication with a source of fluid under pressure, a pair of elbow members secured to said hydraulic fluid motor casing and having communication with said fluid motor, fluid communicating means between said cavities and said elbow members, an output shaft extending from said fluid motor, and drive means between said output shaft and said rotatable wheel housing for effecting driving connection therebetween.

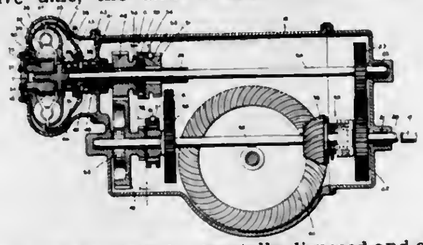
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**2,645,299**
**TRANSMISSION FOR MOTOR VEHICLES**
**Jesse G. Vincent, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan**
**Application January 11, 1949, Serial No. 70,281**
**5 Claims. (Cl. 180—70)**

1. A transmission assembly adapted for operative association with the driving axle installation of a motor vehicle to provide improved balance and weight distribution and which is accordingly substantially symmetrical transversely of the vehicle, said assembly comprising, in combination, a supporting frame through which the drive axle passes transversely; an axle driving shaft rotatably mounted in said



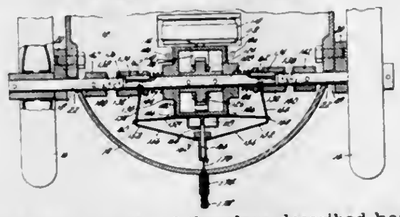
frame, extending longitudinally thereof substantially in its vertical central longitudinal plane, and geared to said drive axle; a countershaft rotatably supported in the frame, extending parallel with said axle driving shaft, and lying substantially in said vertical central longitudinal plane; power means operatively connected with said countershaft; a rotary fluid torque converter having impeller and driven elements and disposed upon one side of said drive axle, the axis of said torque converter



being substantially horizontally disposed and also lying substantially in said vertical central longitudinal plane; means affording a driving connection between said countershaft and the impeller element of said torque converter; a sleeve rotatably mounted on said countershaft and operatively connected with the driven element of the torque converter; and engageable and disengageable transmission gearing on said sleeve and said axle driving shaft, said gearing being located between said torque converter and said axle, longitudinally considered.

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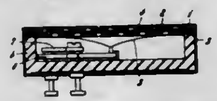
**2,645,300**
**LAWN MOWER DRIVE**
**John J. Watts, Kansas City, and Marion A. Summerour, Lees Summit, Mo.**
**Application March 15, 1948, Serial No. 14,964**
**1 Claim. (Cl. 180—76)**



In a lawn mower of the class described having a base and a motor carried by said base, a pair of transversely spaced apart wheels in axial alignment fixed to axles carried for rotation by said base, a gear reduction unit carried by said base disposed intermediate said wheels and having its outwardly extending output shaft coaxial with said axles, means operatively interconnecting said motor with said gear reduction unit, a jawed clutch member carried for longitudinal sliding movement on each end portion of said output shaft, a jawed clutch member fixed to each of said axles and adapted to be engaged by the adjacent slidable clutch member to drive said wheels, resilient means urging said slidable clutch member outwardly toward the engaged position, a pair of angled levers carried pivotally by said base, one arm of each of said levers having abutting connection with one of said sliding clutch members and the opposite arms of said levers being in close juxtaposition, a rod disposed adjacent said last named lever arms in the plane of said levers, a sleeve carried slidably on said rod and having a shoulder adapted to engage said lever arms, and means for moving said sleeve on said rod, whereby said levers are pivoted to disengage said slidable clutch members from said fixed clutch members.

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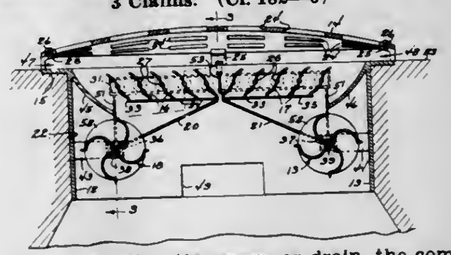
**2,645,301**
**SOUND FILTER FOR MICROPHONES AND TELEPHONES**
**Machiel de Vries, Amsterdam, Netherlands**
**Application July 19, 1950, Serial No. 174,734**
**In the Netherlands May 11, 1950**
**1 Claim. (Cl. 181—33)**



A filter for sound waves comprising a plurality of superposed plates having apertures, said plates being coaxial, parallel to one another and slightly spaced from one another thereby providing a thin layer of damping air between said plates, the apertures in successive plates being arranged in staggered relation to one another, said plates being rotatively adjustable for adjusting the staggered relationship of said apertures, adjustment means adjustably connecting said plates for adjusting the space between the plates, and a ring of compressible material inserted between said plates and constituting spacing means therefor.

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**2,645,302**
**STREET GUTTER DRAINAGE GRILLE**
**Slavin P. Broussard and Gordon R. Broussard, New Iberia, La.**
**Application November 1, 1950, Serial No. 193,332**
**3 Claims. (Cl. 182—6)**



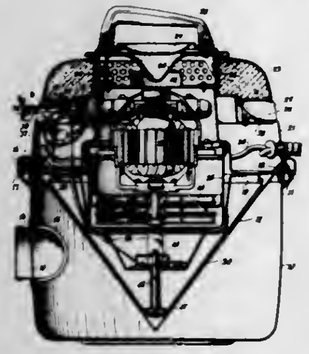
1. In a street gutter sewer or drain, the combination which comprises a substantially open vertically disposed housing having an enlarged upper end, a cover plate having openings therethrough mounted on the upper end of the housing, transversely disposed blades pivotally mounted in the housing, rods connecting the blades, water wheels journaled in the housing and having eccentric arms extended therefrom, and rods connecting the eccentric arms of the water wheels to the rods connected to the said blades whereby rotation of the water wheels by water passing through the housing actuates the blades.

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**2,645,303**
**VACUUM CLEANER**
**Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to Lewyt Corporation, Brooklyn, N. Y., a corporation of New York**
**Application March 24, 1949, Serial No. 83,147**
**8 Claims. (Cl. 183—59)**

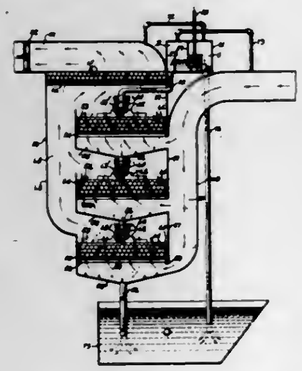
1. In a vacuum cleaner in which in response to a closing of a motor controlling switch-ac-

tuator a suddenly arrested motion is imparted to the filter of the cleaner prior to the initiation of substantial air flow through the latter so that particles of foreign matter are impelled away from the surface of such filter, said cleaner comprising a casing formed with inlet and outlet openings, a motor-driven fan within said casing for causing a flow of air from the inlet to the outlet opening, a filter through which said air flows, supporting means retractable in response to the establishment of a condition of air pressure as provided by the operation of said fan, means for retaining said supporting means in retracted position upon the cessation of fan operation, a switch-actuator for controlling the motor of said fan and means connecting said actuator with said retaining means to release the supporting means for projection and impart a suddenly arrested motion to said filter, such that particles of foreign matter are impelled away from said filter prior to the establishment of a substantial air flow through the body of the latter.



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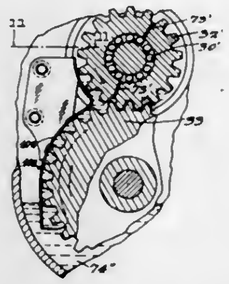
**2,645,304**
**APPARATUS FOR AND METHOD OF WATER SUPPLY CONTROL FOR DUST COLLECTORS**
**Robert L. McIlvaine, Chicago, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois**
**Application August 22, 1950, Serial No. 180,802**
**7 Claims. (Cl. 183—121)**



6. The method of supplying water to a water bath having a fluid stream flowing therethrough to maintain a constant pressure differential between the upstream and downstream sides of said bath which comprises forming a pair of intercommunicating water columns of different heights, venting one of said columns to the fluid stream upstream of said bath, venting the other of said columns to the fluid stream downstream of said bath, continuously supplying water to the columns, delivering water to the bath from the column vented upstream of the bath when the column tends to rise above a predetermined level and discharging liquid from the other column when the level of the other column tends to rise above a second predetermined level.

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**2,645,305**
**MEANS FOR LUBRICATING BEARINGS**
**Delmar G. Roos, Toledo, Ohio, assignor, by mesne assignments, to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania**
**Application May 22, 1951, Serial No. 227,591**
**5 Claims. (Cl. 184—11)**



1. In combination, a housing; a pair of gears journalled for rotation in said housing; one of said gears being partially immersed in lubricant contained in said housing; the other of said gears having an axially disposed chamber formed therein; a radially arranged lubricant conveying passage formed in a wall of the chamber; a shaft; a bearing in said chamber forming a support for the shaft; means for elevating lubricant from the supply in said housing to said chamber including a relatively stationary shroud partially embracing both said gears; a flange secured to said shroud, and securing means cooperating with said flange and said housing wall for supporting the shroud.

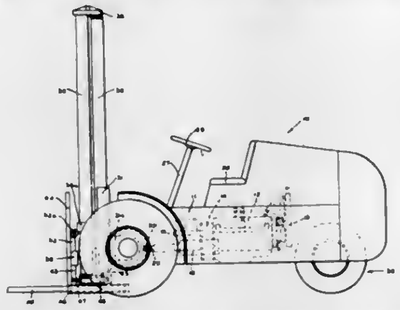
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**2,645,306**
**INDUSTRIAL TRUCK**
**George L. Turner, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
**Application July 28, 1950, Serial No. 176,377**
**12 Claims. (Cl. 187—9)**

12. For use with an industrial truck having a main frame, a mast construction comprising, a first pair of fluid actuated assemblies each comprising piston and cylinder elements having their lengthwise axes extending substantially vertically and in which said piston element is adapted to be mounted in fixed relation on said main frame and said cylinder element is movable relative to said piston element; a second pair of fluid actuated assemblies one disposed rearwardly of each of said first pair of fluid actuated assemblies, each

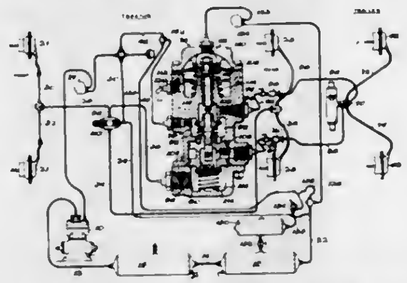


of said fluid actuated assemblies comprising piston and cylinder elements having their lengthwise axes extending substantially vertically and in which said cylinder element is adapted to be mounted in fixed relation on said main frame and said piston element is movable relative to said cylinder element; a load supporting carriage guided for movement on said cylinder elements of said first pair of fluid actuated assemblies, a horizontal crosshead connecting the upper ends of said cylinder elements of said first pair of fluid actuated assemblies and said piston elements of said second pair of fluid actuated assemblies, a sprocket gear carried by said crosshead, and a chain trained over said sprocket gear and being fixed at its one end to said cylinder elements of said second pair of fluid actuated assemblies and at its other end to said load supporting carriage.



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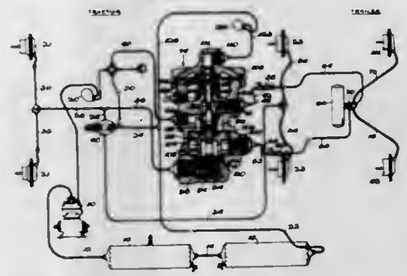
**2,645,307**
**FLUID PRESSURE BRAKING SYSTEM**
**Norman A. Stegman, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware**
**Application June 21, 1949, Serial No. 100,425**
**7 Claims. (Cl. 188—3)**



1. In a tractor-trailer braking system having a fluid pressure operated braking system on the tractor, a fluid pressure operated braking system on the trailer, and means comprising emergency and service lines respectively connecting the tractor and trailer systems, said tractor braking system including a reservoir of fluid pressure, valve means for controlling communication between said emergency and service lines, means responsive to variations of pressure of the fluid in said reservoir for controlling said valve means, a second reservoir of fluid pressure, and manually controlled means for connecting said responsive means to said second reservoir to separately control said valve means.

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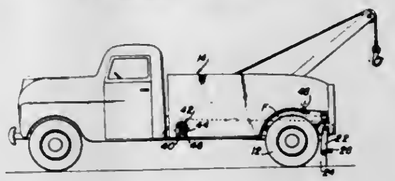
**2,645,308**
**TRACTOR PROTECTION VALVE FOR BRAKING SYSTEMS**
**Ellery R. Fitch and Thomas J. Turek, Elyria, Ohio, assignors to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware**
**Application June 21, 1949, Serial No. 100,498**
**7 Claims. (Cl. 188—3)**



1. In a fluid pressure operated tractor-trailer braking system having interconnected tractor and trailer service and emergency lines, a source of fluid pressure on the tractor, valve means for controlling communication through said tractor and trailer emergency lines, other valve means for controlling communication through said tractor and trailer service lines, and means including a single pressure responsive element movable in one direction in response to a first predetermined pressure at said source for opening both said valve means, and movable in the opposite direction in response to a second predetermined pressure at said source, less than said first pressure, for closing both said valve means, and means controlled by movement of said element in said opposite direction for connecting the trailer emergency line to atmosphere.

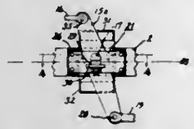
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**2,645,309**
**CHOCKING DEVICE FOR VEHICLES**
**Mike E. Grotz, Sheridan, Wyo.**
**Application June 15, 1951, Serial No. 231,817**
**3 Claims. (Cl. 188—4)**



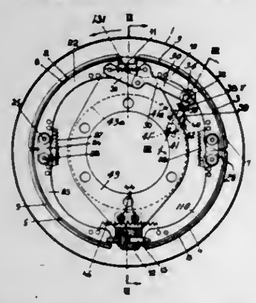
1. In a vehicle including rear wheels and fenders extending over the wheels, a tube mounted on the rear of the vehicle behind the wheels, said tube being supported horizontally upon the rear of the vehicle and extending transversely of the vehicle, a shaft supported in said tube for rotation and having its ends disposed exteriorly of the tube, a pair of laterally projecting arms fixed to each end of said shaft, a shoe pivoted between each pair of arms, and rearwardly facing angle iron seats fixed to the fenders above the wheels and forwardly of the shaft to support the shoes when the latter are raised, the pivots securing the arms to the shoes being disposed forwardly of the shaft and behind the seats when the shoes are engaged in the seats.

**2,645,310**
**BRAKE RIGGING**
**Gerald B. Hunt, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application May 11, 1951, Serial No. 225,746**
**4 Claims. (Cl. 188—33)**



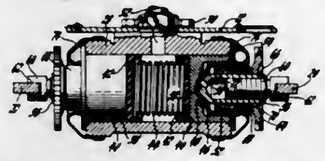
4. In a rail vehicle truck having brake rigging associated therewith, a side frame member, and a fulcrum bracket removably mounted on said side frame member and having a fulcrum point adapted to pivotally mount a brake rigging actuating fulcrum lever, said fulcrum bracket being adapted to be supported in a first position with said fulcrum point offset on one side of the longitudinal center line of said side frame member or in a second position with said fulcrum point offset on the other side of said center line whereby reversal of said fulcrum bracket is adapted to change the distance from the point of connection between said brake rigging and said fulcrum lever to said fulcrum point.

**2,645,311**
**BRAKE FOR VEHICLES AND OTHER USES**
**Pierre Farkas, Paris, France**
**Application May 27, 1946, Serial No. 672,517**
**In France August 2, 1945**
**9 Claims. (Cl. 188—79)**



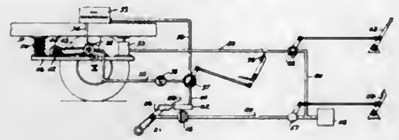
1. A brake comprising a fixed part, a drum for connection to a rotating member, two sets of juxtaposed brake shoes of four segmental arcuate quarter sections each, each set comprising two diametrically opposed radially aligned separate pairs of such sections pivotally connected by links with their adjacent aligned upper and lower ends spaced apart and limited in their movements toward each other, spring means independently biasing the adjacent upper and lower ends of the pairs of each shoe toward each other, means carried by said fixed part and between the corresponding spaced aligned lower ends of each pair of shoes to individually adjust said ends of each pair into expanded or contracted positions relative to the drum, and a single actuating means also carried by said fixed part and between and common to the corresponding adjacent upper ends of all of said pairs of both sets of shoes for simultaneously expanding or contracting all of said pairs and both sets of shoes relative to the drum independently of said adjusting means to simultaneously apply or release all of said shoes to or from the drum respectively.

**2,645,312**
**HYDRAULIC BRAKE-ADJUSTER**
**Theron P. Chase, Huntington Woods, Mich.**
**Application June 2, 1949, Serial No. 96,799**
**12 Claims. (Cl. 188—79.5)**



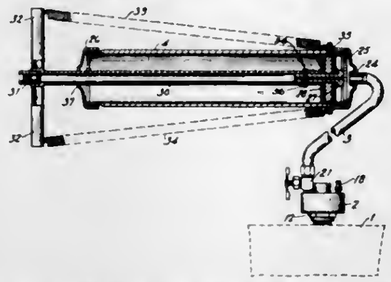
1. In a brake, a cylinder, a piston means within said cylinder, a strut connected to said piston means, a retainer operatively secured to said piston means, sealing means between said retainer and said strut, and a boot seal engaging said cylinder and said retainer.

**2,645,313**
**HYDRAULIC EMERGENCY BRAKE FOR PNEUMATIC BRAKE SYSTEMS**
**Francis S. Schaadt, San Francisco, Calif.**
**Application November 25, 1950, Serial No. 197,591**
**2 Claims. (Cl. 188—152)**



1. An emergency brake for vehicles with a fluid actuated first system which comprises a second fluid system for applying the brakes, said second system comprising a pivoted platform, a fluid pump on the platform, drive means for the pump comprising a roller engageable with a ground engaging wheel of the vehicle to be driven thereby when the vehicle is in motion, resilient means normally pivoting the platform toward such roller engaging position, and a fluid jack opposing said resilient means and supplied with pressure from said first named fluid system whereby upon failure of pressure in said first system the second system will become operable.

**2,645,314**
**APPARATUS FOR BLEEDING AIR AND REPLACING LIQUID IN HYDRAULIC BRAKE SYSTEMS**
**Frank P. Lackinger, McKees Rocks, Pa.**
**Application October 9, 1951, Serial No. 250,450**
**8 Claims. (Cl. 188—152)**



1. An apparatus for simultaneously bleeding air from and inserting liquid into the master cylinder of a hydraulic brake system which comprises, a pressure chamber to contain a liquid for use in a hydraulic brake system, manifold means adapted to connect and seal said pressure chamber to a master cylinder to permit the inflow of liquid while bleeding air from the hydraulic brake system, and an air bleeding liquid pressure closing check valve in said means to permit the escape of air from a master cylinder while the liquid is entering the same.



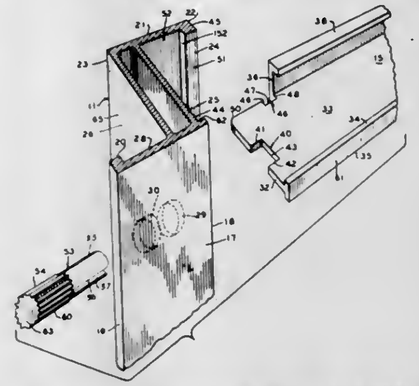
**2,645,315**
**ANTENNA SUPPORT TOWER AND METHOD OF ERECTING AND OPERATING SAME**
**Russel E. Frushour, South Bend, Ind., assignor to South Bend Lathe Works, South Bend, Ind., a corporation of Indiana**
**Application July 6, 1950, Serial No. 172,220**
**17 Claims. (Cl. 189—26)**



1. A tower of the class described comprising a plurality of telescopic sections including an outer section having a closed lower end and a removable wall part thereabove, an inner section projecting from the upper end of said outer section, a plurality of separate supporting links interposed between said inner section and said end holding said inner section in extended position, each supporting link being of such size that it can be inserted into said outer section through the opening formed by removal of said part, a second inner section projecting upwardly from said first-mentioned inner section, and a plurality of independent links supporting said second inner section, said last-named links forming a column located in said first-named inner section and the supporting links therefor, said second-named links also being of a size for insertion through said opening in the outer section.

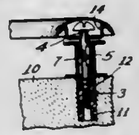
**2,645,316**
**WINDOW CASEMENT CONSTRUCTION**
**John Brownlie, Freeport, and Ralph Gerstenzang, Brooklyn, N. Y., and Almon C. Blamey, Rutherford, N. J.; said Blamey assignor to said Brownlie and said Gerstenzang**
**Application July 22, 1947, Serial No. 762,646**
**6 Claims. (Cl. 189—76)**

2. In a window casement construction including a sash frame element, and a muntin element engaged with said sash frame element, the improvement comprising: a bifurcated pin, one portion of which engages the sash frame element,



and the bifurcated portion of which straddles the muntin element.

**2,645,317**
**SCREW STUD OR FASTENER AND ASSEMBLY UTILIZING SAME**
**Werner I. Staaf, Rennerdale, Pa.**
**Application June 29, 1950, Serial No. 171,049**
**4 Claims. (Cl. 189—88)**

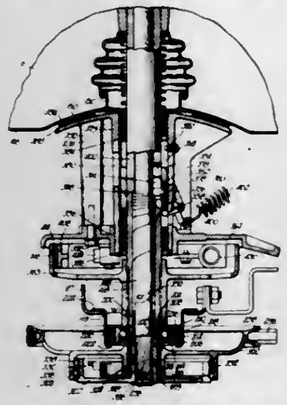


1. In a fastener assembly of the class described, a base, a member to be secured to the base in spaced relation thereto, a fastener threaded into the base and having a head with a flat, smooth surface on the under side thereof, said member having a slot therein through which the fastener extends to enclose the head within the member, said fastener having a shank constructed to rotate in the slot in the member with the under side of its head rotatably engaging a smooth surface of the member, a sleeve slidably mounted over the fastener shank between the base and the member, ribs on the shank positioned within the sleeve, said ribs being fitted in the sleeve to fix the sleeve and fastener for rotation together, and the ribs being spaced from the ends of the sleeve to permit sliding movement of the fastener relatively to the sleeve as the fastener is screwed into the base, said sleeve being accessible below the member to a tool for rotating the fastener to screw it into the base.

**2,645,318**
**TRANSMISSION DRIVE MECHANISM**
**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**
**Original application December 20, 1948, Serial No. 66,230. Divided and this application November 17, 1950, Serial No. 196,291. In Canada December 1, 1949**
**6 Claims. (Cl. 192—41)**

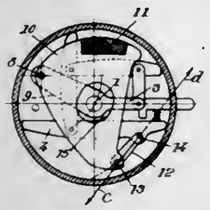
1. An actuator for a clutch element, comprising inner and outer concentric shafts, a spring clutch element having a free end disposed be-

tween said shafts and adapted to effect the driving connection between the same, said outer shaft having a keyhole slot extending therethrough adjacent the free end of said clutch element, a clutch collar mounted for axial movement with respect to said free end and provided with an opening therethrough with oppositely disposed recesses, a key movable into the path of movement of said free end of said spring clutch element projecting through said opening and having oppositely disposed parts engageable in said recesses, said recesses being so disposed and arranged as to permit rotation of said key within the enlarged portion of said keyhole slot whereby the same may be inserted into and removed from its operative association with said collar, and means for moving said key away from the free end of said spring clutch element.



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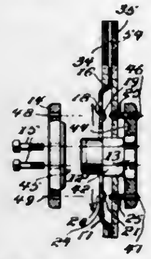
**2,645,319**
**FREE WHEEL MECHANISM**
**Leo Robin, Ville-d'Avray, France**
**Application April 30, 1951, Serial No. 223,682**
**In France May 3, 1950**
**3 Claims. (Cl. 192—41)**



1. A free wheel mechanism which comprises, in combination, a driving element, a driven element coaxial with said driving element and including a rotary drum, a cross bar of a length smaller than that of the inner diameter of said drum bearing against the inner wall thereof, connecting means between said bar and a point of said driving element eccentric with respect to the axis thereof for wedging said bar against said drum inner wall when said driving element is rotating in one direction and leaving said bar free to slide on said drum when said driving element is rotating in the opposed direction, a support pivoted to said driving element about an axis parallel to the common axis of said driving and driven elements, interconnecting means between said support and said bar to permit relative rotational displacements thereof, and a counterweight secured to said support to balance at least partly the torque resulting from the combined actions of the centrifugal forces exerted upon said bar and said first mentioned connecting means.

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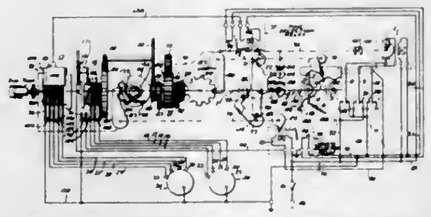
**2,645,320**
**QUICK-CHANGE CLUTCH DISK**
**Leslie W. Thompson, Louisville, Ky.**
**Application April 2, 1951, Serial No. 218,743**
**5 Claims. (Cl. 192—107)**



1. A clutch disc assembly comprising two semicircular sections, each having an offset centrally disposed portion and an arcuate mounting rib in said centrally disposed portion, lining strips on the peripheral edges of the said sections, each of said sections having a recess in the center, a mounting hub having a shoulder and a flange thereon and said flange having an annular recess positioned to receive the arcuate ribs of the said clutch sections, a mounting flange having a centrally positioned opening therein for receiving the shoulder of the hub and having an annular bead on one face positioned to register with the recess of the flange of the hub for positioning the said clutch disc sections on the hub, and means securing the said mounting flange to the flange of the hub for clamping the said clutch disc sections on the hub.

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**2,645,321**
**AUTOMATIC TUNING CONTROL FOR RADIO APPARATUS AND THE LIKE**
**Richard W. May and Ross S. Pyle, Cedar Rapids Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**
**Application July 15, 1948, Serial No. 38,934**
**32 Claims. (Cl. 192—142)**

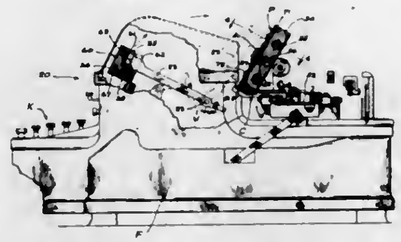


1. Apparatus of the character described for selectively setting a rotatable shaft which is required to undergo either a fractional revolution or more than one complete revolution before arriving at its selected setting, comprising, coarse selection control means to determine the coarse setting of said shaft, fine selection control means for determining the incremental fine setting of said shaft, each of said coarse and fine selection control means including a respective and separate shiftable stop member, and coarse and fine selector switches of the seeking type associated respectively with said coarse and fine selection control means for controlling the selective operation of said shiftable stop members in sequence.



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**2,645,322**
**EMBOSSING MACHINE**
**George C. Brainard, Cleveland, and John H. Gruver, Cleveland Heights, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware**
**Application September 13, 1949, Serial No. 115,394**
**5 Claims. (Cl. 197—6)**

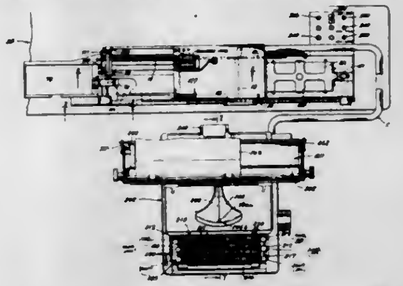


2. In an embossing machine for forming embossed type characters one by one on a plastic printing plate, a plurality of die heads, a plurality of supporting arms on corresponding ends of which the respective die heads are fixed, means supporting said arms for individual movement from retracted positions wherein the die heads are supported side by side in a row to operated positions wherein the die head of an arm in its operated position is disposed in a working position that is the same for each die head, means including carriage and cross slide means for supporting and variantly positioning a plastic printing plate opposite said working position, means for heating a plastic printing plate while it is in position on said cross slide, and a heater block for said die heads having a longitudinal groove in which all of said die heads may be positioned when such die heads are in said retracted positions, said block having transverse slots intersecting with said groove and through which said arms may extend into said groove, said die heads having die cavities formed therein defining the respective type characters that are to be formed on such a plate.

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**2,645,323**
**RECORD CONTROLLED PRINTING APPARATUS**
**Hans P. Luhn, Armonk, and Richard L. Johnson, Wappingers Falls, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application December 9, 1950, Serial No. 199,988**
**11 Claims. (Cl. 197—20)**

1. In cyclically operable apparatus of the type which operates to manifest codal designations recorded in successive record columns of a record card, means for successively sensing said record columns, printing means including a plurality of character actuators corresponding to different data and each of said actuators being operable when activated to effect printing of its corresponding character, electrical circuit means operable in response to the sensing of each designation for activating the corresponding actuator and including programming means comprising a plurality of relays representative of program steps required of a particular coding arrangement, means for skipping certain of said steps by energizing certain ones of said relays, means for carrying out the required program steps by cyclically energizing the remaining ones of said relays, and means for activating the corresponding actuators upon the energization of said remaining ones of said relays.



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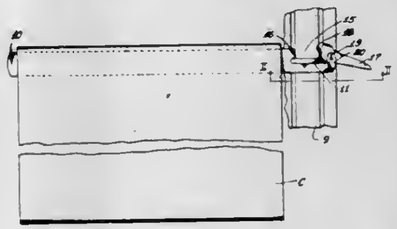
**2,645,324**
**ADJUSTABLE ESCAPEMENT MECHANISM FOR TYPEWRITERS**
**Floyd J. Kavanaugh, Galveston, Tex., assignor to R. C. Allen Business Machines, Inc., Grand Rapids, Mich., a corporation of Michigan**
**Application September 26, 1950, Serial No. 186,781**
**6 Claims. (Cl. 197—84)**



1. A typewriter escapement mechanism comprising an escapement wheel drivingly connected with a character receiving sheet carriage, dog means rockable transversely of the escapement wheel on an axis parallel with respect to the plane of the wheel, spring means normally urging said dog means axially in one direction, and adjustable support means for holding said dog means against the influence of said spring means in any selected one of a plurality of adjusted positions longitudinally of said axis.

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**2,645,325**
**MOUNTING MEANS FOR MANIFOLD MACHINE CARBON PAPER**
**Laurence A. Petit, Chicago, Ill.**
**Application July 14, 1950, Serial No. 173,719**
**6 Claims. (Cl. 197—126)**

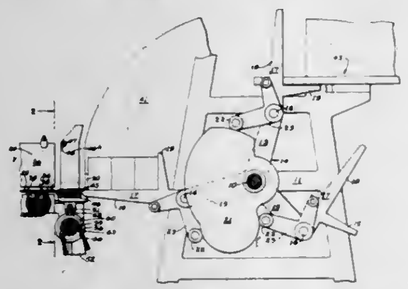


1. A manifold typewriting machine carbon paper supporting arm for lateral clamping engagement with a post on the side of the machine, said arm comprising a blade with an opening in

an edge of the same so that the blade can be pressed laterally against the post to engage said blade with said post in said opening, and means for detachably binding said blade to said post when the post is inside said opening, said blade at said opening having an abutment for engaging around and over an edge of said post and said binding means being engageable with an opposite edge of said post to cooperate with said abutment in holding said blade on said post.

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**2,645,326**
**SUPPLY CONTROL MECHANISM FOR CONTAINER HANDLING MACHINES**
**Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware**
**Application July 5, 1949, Serial No. 103,126**
**11 Claims. (Cl. 198—25)**



1. In a container handling machine supplied from a container supply lane, a supply control mechanism comprising a container receiving ramp arranged at the discharge end of said container supply lane, means for feeding round containers in upright position along said lane, means for removing the containers accumulating on said ramp, and means operable coincident with said container removing means for shifting containers stationed at the entrance end of said ramp laterally out of reach of said container removing means.

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**2,645,327**
**JOG FEEDER FOR BOOKS**
**William B. Hildmann, Chicago, Ill., assignor to Brock & Rankin, Chicago, Ill., a corporation of Illinois**
**Application January 16, 1948, Serial No. 2,571**
**23 Claims. (Cl. 198—29)**



1. A jogfeeder comprising a bed plate mounted for movement in a substantially horizontal plane, conveyor means movable in a direction across said bed plate, engaging means part of said conveyor means and spaced apart in the direction of movement thereof, mechanism for moving said bed plate in a back-and-forth motion in timed relation to movement of said conveyor means and the engaging means thereof, but at a rate differing therefrom, whereby articles transported by said engaging means onto and across said bed plate are jumped ahead of and back against said engaging means to jog said articles.

**2,645,328**
**APPARATUS FOR STACKING FLAT CANS**
**Floyd Winters, Monterey, Calif.**
**Application September 15, 1950, Serial No. 184,937**
**18 Claims. (Cl. 198—35)**



1. Apparatus for stacking flat cans comprising means for feeding cans in single file, a can stacking chamber of a length to receive a plurality of laterally adjacent cans, for receiving cans from said feeding means, a moving belt at a lower level than said feeding means and forming a bottom for said chamber, a dual level chute between said feeding means and said chamber including a lower chute for directing cans onto said moving belt to a predetermined number of cans in height, yieldable means in said chamber for obstructing movement of the stacks of cans therein by said moving belt, said dual level chute including an upper chute discharging into said chamber one can length in advance of said lower chute for depositing an additional number of cans on a stack thereof previously stacked by said lower chute and can engaging means engageable by the topmost can of a stack of predetermined height stacked by said upper chute, said can engaging means being operatively connected with said yieldable means obstructing the cans for releasing the yieldable means from can obstructing position while a can is in engagement with said can engaging means.

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**2,645,329**
**MECHANISM FOR HANDLING BOARDS**
**Robert Colvin Blair, East Leake, near Loughborough, England, assignor to The British Plaster Board Limited, Wallasey, England, a company of Great Britain**
**Application December 4, 1950, Serial No. 198,948**
**In Great Britain December 8, 1949**
**9 Claims. (Cl. 198—35)**



1. Apparatus which when fed with a sequence of boards turns every other board over, the apparatus including a first conveyor for carrying a succession of boards, a stop member placed below and beyond the discharge end of the said first conveyor in a position to be engaged by the leading edge of a board being discharged therefrom and to hold it leaning backwards towards that discharge end, and a second conveyor having an entry end disposed beyond said stop in a position to engage a face of a board falling forwards about its edge on said stop and to carry the board beyond the stop, the arrangement being such that, when a first board is so engaged on the stop, the next succeeding board will overturn the first board against the said second conveyor which will thereupon advance the two boards together.



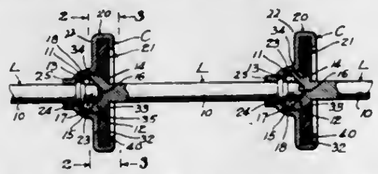
**2,645,330**
**SAFETY CONTROL SYSTEM FOR MINES**
**Noah Lawrence Stephenson, Logan, W. Va., assignor of forty-five per cent to John B. Hughey, Logan, W. Va.**
**Application September 12, 1950, Serial No. 184,447**
**9 Claims. (Cl. 198—78)**



5. In a mine safety system, a mother conveyor, and a plurality of feeder conveyors, a motor for said mother conveyor, an auxiliary motor for each of said feeder conveyors, a main positive line and a main negative line paralleling said conveyors, a main controller, and an auxiliary controller for each of the auxiliary motors, a conductor from the main positive line to said main controller, a magnetic contactor interposed in said conductor and including the usual solenoid, a second positive line extending from said main controller and connected to each of said auxiliary controllers, a single pole double throw switch interposed in said second positive line adjacent said main controller, one contact of said switch being connected to said main controller and the other contact being connected to said line to the magnetic contactor, a second negative line extending from said controller and paralleling said conveyors, the solenoid of said magnetic contactor being interposed therein, a plurality of circuit breakers interposed in said second negative line, and means paralleling each of said conveyors and within easy reach of a person on said conveyor for actuating an adjacent circuit breaker.

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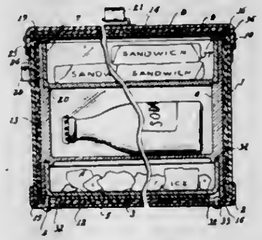
**2,645,331**
**ENDLESS CONVEYER FOR POULTRY FEEDING APPARATUS**
**Axel J. Bohman, North Hollywood, Calif.; The Farmers and Merchants National Bank of Los Angeles, executor of said Axel J. Bohman, deceased**
**Application September 2, 1950, Serial No. 182,930**
**4 Claims. (Cl. 198—176)**



1. An endless flexible conveyor of the class described comprising: a plurality of links composed of shanks having a semi-spherical head at one end and a centering teat at the other end; connectors for securing the links together and each composed of two sections; one section having means co-acting with said other end of the shank of a link to rigidly support such section on the link; the other section having means co-acting with said head of the next link to mount such link from said other section for angular movement relative to the latter about a center; and means rigidly securing the sections together; each link having a socket in said head thereof receiving said teat of the next link when the links are joined by the connectors, so as to provide a knuckle joint between the ends of the links at each connector, with the center of such joint coincident with the aforementioned center.

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**2,645,332**
**PICNIC BOX**
**Nora Bridges Martin, Chicago, Ill., and Eric K. Lotthammer, Jamaica, N. Y.; said Lotthammer assignor to said Martin**
**Application July 12, 1951, Serial No. 236,362**
**3 Claims. (Cl. 206—4)**



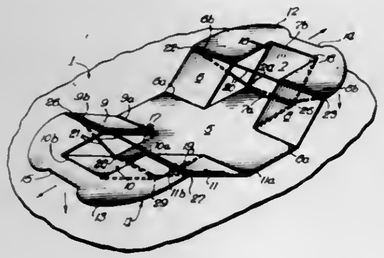

1. A picnic box comprising an outer body shell, a lower portion of said body shell being turned inwardly at substantially right angles forming a lower horizontal rim, a removable base for said outer body shell, said base comprising inner and outer base shells and a layer of insulation inserted between said inner and outer base shells, releasable means for locking said base to said outer body shell comprising four lock lugs located in each corner of said outer base shell, the lower horizontal rim of said outer body shell being provided with lug seats engaging said lock lugs, said lock lugs having heads provided with slots, a removable lower glass compartment resting on said inner base shell in nesting relationship to said outer body shell, said lower compartment having a rubber seal on the upper edges thereof and a central glass compartment receiving the upper edges of said lower compartment in nesting relationship to said outer body shell, the lower walls of said central compartment extending beyond the bottom thereof and surrounding said lower compartment and further extending downwardly to rest on the lower horizontal rim of said outer body shell, the upper walls of said central compartment extending upwardly to the top of said outer body shell, a layer of insulation inserted between said central compartment and said outer body shell, a removable upper glass compartment in said central compartment in nesting relationship thereto, a removable cover for said outer body shell, said cover comprising inner and outer cover shells, a layer of insulation inserted between said inner and outer cover shells, and a rubber gasket cemented to the underside of said inner cover shell, and means for releasably securing said cover to said outer body shell.

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**2,645,333**
**HAT HOLDER FOR HAT BOXES**
**Paul E. Nelson, Geneva, Ill.**
**Application March 2, 1949, Serial No. 79,157**
**11 Claims. (Cl. 206—8)**

8. In a hat confining and protecting means including a hat carrying surface and a hat, said

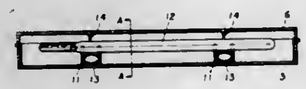
hat being positioned with its crown located away from said carrying surface and with its head opening facing said surface to dispose the sweat band of the hat adjacent said surface, the improvement consisting of a hat holder in the form of a flat blank comprising a base connected with said hat carrying surface, a plurality of legs connected for swinging movement with respect to one portion of said base and disposed within said head opening of the hat, a plurality of legs



connected for swinging movement with respect to another portion of said base and disposed within the head opening of said hat, and ledge members connected with the swingable ends of each plurality of legs respectively for disposition within the head opening of the hat and against spaced portions of the crown thereof, with portions of said ledge members engaging over the sweat band of the hat to hold the latter against said hat carrying surface of said confining and protecting means.

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**2,645,334**
**BOX FOR SHIPPING, DISPLAYING, AND STORING FRAGILE ARTICLES SUCH AS THERMOMETERS OR THE LIKE**
**Clarence F. Aldridge, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York**
**Application March 24, 1951, Serial No. 217,356**
**3 Claims. (Cl. 206—16.5)**



1. An elongated box for containing an elongated article and comprising a bottom and a top hinged together, cooperating latch elements on said bottom and on said top to releasably hold the box closed, pairs of opposed U-shaped members secured to and spaced along said bottom with the open ends of a pair of members facing each other transversely of the bottom, the opposed members of a pair being spaced from each other a distance sufficient to freely receive said article therebetween, spaced resilient pieces completely contained in said pairs of members to extend transversely of said bottom, said pieces having portions lying in a given plane and on which said article rests, and rigid means on said top and projecting toward said plane to a point spaced from said plane a distance less than the thickness of said article when the box is closed, said rigid means being adapted to engage and to force the article resting on said pieces into engagement therewith.

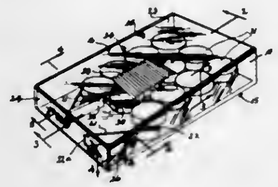
**2,645,335**
**FLINT DISPENSER**
**Walter R. Avis, Bradford, Pa., assignor to Zippo Manufacturing Company, Bradford, Pa., a corporation of Pennsylvania**
**Application May 26, 1950, Serial No. 164,375**
**3 Claims. (Cl. 206—42)**



1. A flint dispenser comprising a body formed with a plurality of bores, a dispensing tube slidably mounted in each of the bores, the dispensing tube having a flint-receiving bore and being of greater length than the body bore, the outer end of the dispensing tube having a conical nose piece adapted to fit within the entrance of a flint tube of a lighter, an ejecting rod fixed to the body in alignment with and projecting into the flint-receiving bore and beyond the body, the parts being designed to permit the dispensing tube to slide inwardly in the body bore and cause the ejecting rod to dispense a flint from the flint-receiving bore, said ejecting rod being at least as long as said dispensing tube.

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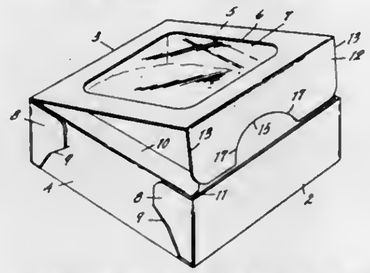
**2,645,336**
**DISPENSING CONTAINER**
**Donald Waber and Raymond Braunstein, Jr., Philadelphia, Pa.**
**Application May 26, 1951, Serial No. 226,414**
**9 Claims. (Cl. 206—42)**



1. A dispensing container comprising a box-like body having a normally open top and front end and adapted to hold a plurality of articles to be separately and individually dispensed therefrom, the top of said body sloping downwardly and forwardly, means on the bottom of said body to direct the articles towards the longitudinal center of said body at the front end thereof when said front end is tilted downwardly and forming a restricted exit, a closure for the top and front end slidably attached to the top of said body and including top and front end walls, pendant means on the underneath side of said top wall in spaced adjacent relation to said front wall and to the bottom wall of the body, said pendant means gradually descending towards said bottom wall as the closure is moved forwardly to positively engage an article ahead of it and progressively decrease the space between said pendant means and the bottom wall of the body, and agitating means on the closure to engage any of the articles remaining in the container in the path of rearward travel of said agitating means as the closure is retracted to shift the remaining articles about within the container.



**2,645,337**
**CARTON FOR BAKED GOODS AND OTHER EASILY BROKEN PRODUCTS**
**Richard C. Stenger, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.**
**Application July 7, 1949, Serial No. 103,359**
**4 Claims. (Cl. 206—46)**



1. In combination, a carton and an article enclosed by said carton, said article having a generally circular peripheral edge disposed in a plane generally horizontal, said carton comprising a bottom, front, rear and side walls, and a cover hingedly connected to the rear wall and provided with a tucking flap at its front edge for closing on the inner side of the front wall, said flap having a downwardly opening recess in its lower edge disposed below said circular edge of the enclosed article when the cover is in closed position, said recess being vertically spaced from the cover and having a central portion and opposite side edges inclined from said central portion downwardly away from each other, said central portion providing a clearance for the circular edge of the article during the initial closing of the cover, said inclined side edges providing camming elements for engaging spaced portions of said peripheral edge of the article to shift the article rearwardly away from the front wall to allow the flap portion above the recess to engage between the peripheral edge of the article and the front wall of the carton upon final closing of the cover.

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**2,645,338**
**JACKET FOR JET INJECTION AMPOULES**
**Robert Pauli Scherer, Detroit, Mich., assignor to R. P. Scherer Corporation, Detroit, Mich., a corporation of Michigan**
**Application May 14, 1949, Serial No. 93,281**
**5 Claims. (Cl. 206—63.2)**



1. In a jacket for a jet injection ampule, a cylindrical element closed at one end and open at the other end, a sealing element for said ampule located in the closed end of said cylindrical element, and a removable cap for said cylindrical element, said cap retaining said ampule in said cylindrical element with a jet orifice thereof sealed by compressing said sealing element, said cap having an inturned edge to retain it in position on said cylindrical element and said cylindrical element having a flange received in said inturned edge, and a resilient sealing band around said cylindrical element below said flange and adapted to be compressed by the edge of said cap when so turned in.

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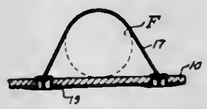
**2,645,339**
**NEEDLE CARD**
**Warren R. Toy, Yonkers, N. Y., assignor to Becton Dickinson and Company, Rutherford, N. J., a corporation of New Jersey**
**Application April 13, 1950, Serial No. 155,596**
**2 Claims. (Cl. 206—63.2)**



1. A mounting for a hypodermic needle including in combination a needle comprising a hub having a pair of opposed recessed, axially extending faces and a cannula mounted by said hub, a flexible strip folded upon itself and presenting in its superposed layers openings for the accommodation of said hub with the cannula extending in housed relation between said layers in the direction of the fold, the width of said openings being substantially equal to the distance between the bases of the recessed hub faces, whereby contact between the edges of the openings and said faces will retain the layers against accidental separation with respect to each other and said hub, at least one of said layers being formed with a further opening, said further opening being aligned with the cannula.

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**2,645,340**
**SUPPORTING DEVICE INVOLVING AN ELASTIC MEMBER**
**Dewey M. Dow, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware**
**Application July 15, 1949, Serial No. 105,010**
**3 Claims. (Cl. 206—80)**

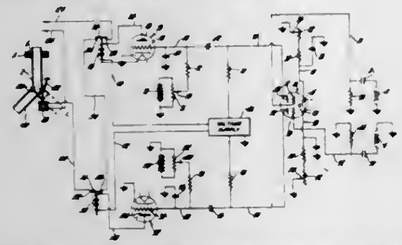


1. The combination of a supporting panel having a pair of spaced apertures, an anchor member in each aperture, each anchor member having an elongate slot open at one end, a strip of woven flat textile elastic material extending from one anchor member to the other, the thickness of the strip approximating the width of the slot in each anchor member, and a row of stitching extending transversely of said strip adjacent each end thereof thereby to provide a raised portion on each side of said strip, the end portions of said strip engaging in the slots of said anchor members respectively with the rows of stitching on the inside thereof thereby to enable the strip to be stretched relative to the anchor members and held to the anchor members by the rows of stitching.

**2,645,341**
## AMPLIFYING AND TRIGGERING MEANS FOR MAGNETIC HARDNESS TESTERS

**Milton J. Diamond, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application July 12, 1950, Serial No. 173,457**
**5 Claims. (Cl. 209—81)**

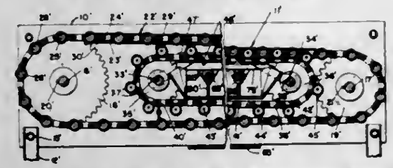


1. In a testing means, means for moving a magnetized part along a predetermined path, a plurality of juxtaposed inductive coils adjacent said path and in which coils a voltage having a magnitude proportional to the hardness of said part is induced simultaneously by the passage of said part through said path, separate amplifying means connected to each coil and responsive to different levels of voltage induced in said coils, diverting selecting means in the path of said part to determine their destination, relay means to actuate the selecting means, and relay switching means connected to said relay means and including a plurality of relay coils individually connected to the output circuit of each amplifying means, one of said relay coils actuating said relay switching means to energize said relay means when the voltage in said pick-up coils is above a predetermined magnitude and the other of said relay coils actuating said relay switching means to deenergize said relay means when the voltage in said pick-up coils is above another magnitude, whereby the magnetized part inducing a voltage within a range between said magnitudes will be directed to a single point.

**2,645,342**
## SIZING APPARATUS

**Frank B. Roberts, Anaheim, Calif.**

**Application March 5, 1949, Serial No. 79,790**
**6 Claims. (Cl. 209—102)**



1. In a sizing apparatus, a pair of opposed, horizontally spaced, endless, flexible members, means supporting said members to form upper and lower reaches which simultaneously move in opposite directions, transverse members mounted on the flexible members and disposed between the flexible members and evenly spaced along the flexible members, a second pair of opposed, spaced, endless flexible members, means supporting the flexible members of said second pair to form upper and lower reaches which simultaneously move in opposite directions, the upper reach of said second pair of flexible members being disposed lower than, and adjacent to, the upper reach of said first pair of flexible members, second transverse members mounted on the second pair of flexible members and disposed horizontally between the second pair of flexible members and evenly spaced along said second pair of flexible members, said second transverse members being spaced apart the same distance as are the first transverse members, the transverse members carried by the second pair of flexible members each being disposed below and intermediate the transverse members carried by the first pair of flexible members and being adapted to engage articles contacting the associated pair of transverse members, and means to drive all of the flexible members in the same direction and at the same linear speed, the upper reach of said second flexible members being inclined in the direction of advancement away from the adjacent reach of the first flexible members, whereby, as the flexible members advance, the second transverse members move away from the first transverse members during the advancement.

**2,645,343**
## PHOTOELECTRIC INSPECTING AND SORTING APPARATUS

**Clarence T. Nemir, Washington, D. C., assignor to The Kelling Nut Co., Chicago, Ill., a corporation of Illinois**

**Application April 27, 1949, Serial No. 89,973**
**9 Claims. (Cl. 209—111)**



1. A sorting machine for sorting out off-colored objects comprising a transparent horizontally disposed conveyor belt adapted to convey objects to be sorted in a horizontal direction, means to position objects to be sorted on said conveyor, a first photo-electric inspection station means positioned above said conveyor at a point along the conveyor run, in a manner to photo-electrically inspect said objects from above the conveyor, a first light source positioned above said conveyor in a manner to reflect light from the conveyor and objects to said first photo-electric means, a second photo-electric inspection station means positioned beneath said conveyor in a manner to photo-electrically inspect said objects from beneath the conveyor, a second light source positioned beneath said conveyor in a manner to reflect light from the conveyor and underside of said objects to said second photo-electric means, relay means for each of said inspection stations and actuated in accordance with a given condition of response of the respective photo-electric means, and object sorting means for each of said inspection stations and controlled by the respective relay means.

**2,645,344**
## EGG-GRADING MACHINE

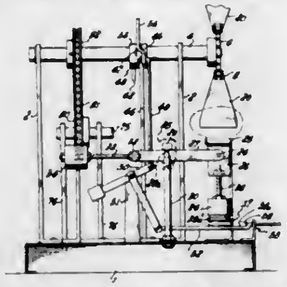
**Richard J. Hayter, North Hollywood, Calif.**

**Application August 21, 1950, Serial No. 180,540**
**4 Claims. (Cl. 209—121)**

1. In an egg grading machine, a series of stationary track sections in continued horizontal alignment, weighing scales in the spaces between adjacent sections, each scale including a balanced pivotally hung beam and a track section pivotally hung on one end of said beam, a stem downwardly extending from the center of said scale track, a weight adjustably mounted on said



stem, said track section being normally held in continued horizontal alignment with said stationary track sections to form therewith a continuous track, each beam being adjustable to yield to an egg above a certain weight, horizontally aligned shafts transversely mounted for rotation at the ends of the machine, sprocket wheels on said shafts, a chain hung on said wheels directly above said track for horizontal movement parallel therewith, elements on said chain for

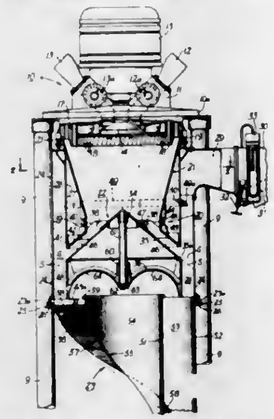


moving eggs along the track, means below the track section of each beam for tipping said section when the beam yields to the weight of an egg, a cam on one of said shafts, a lever mounted for oscillating movement in a vertical plane by said cam, means below said scale track section for tipping the latter when the beam is depressed by an egg, and connections from said lever to operate said track section tipping means in timed relation to the movement of eggs along the tracks by the elements on the chain.

**2,645,345**
## GRAIN ASPIRATING MACHINE

**Robert B. Dodds, Woodbridge, Conn., assignor to The Safety Car Heating and Lighting Company, Inc., New Haven, Conn., a corporation of Delaware**

**Application September 9, 1950, Serial No. 183,972**
**6 Claims. (Cl. 209—138)**

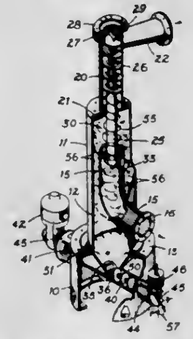


1. In apparatus for aspirating a dry bulk product, the combination of, a pair of spaced concentric members forming an annular air channel, means forming an annular gap between the top and bottom of said channel across which the product is adapted to flow in a thin, flat stream, means to direct the product to said gap, means forming an air inlet opening connected to the bottom of said channel, an exhaust conduit connected to the upper end of said channel at one side thereof, and a horizontal baffle element connected to one of said members and being wholly disposed in said channel between said inlet opening and said exhaust conduit, said baffle element including a relatively wider horizontal portion than the other portions thereof, said wider portion being disposed in the exhaust conduit side of said channel thereby to reduce the air velocity at those portions of said gap underlying said wider portion of said baffle element.

**2,645,346**
## PAPER MACHINERY

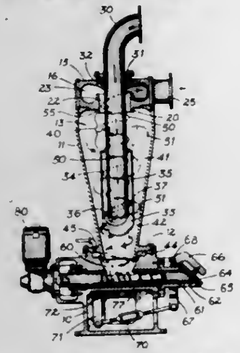
**Stephen A. Staege, Hamilton, and Albert G. Gibson, Middletown, Ohio, assignors to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio**

**Application May 20, 1950, Serial No. 163,112**
**9 Claims. (Cl. 209—211)**



1. A vortex separator for separating heavy particles from a liquid slurry stock comprising a casing forming a chamber adapted to be filled with liquid, a cylindrical inlet conduit adapted to deliver stock into said chamber in substantially vertical flow, a cylindrical outlet conduit from said chamber aligned with said inlet conduit to receive said stock directly from said inlet conduit, means maintaining the adjacent ends of said conduits in axially spaced relation within said chamber to provide a circumferential discharge gap therebetween for radial discharge of particles out of the line of flow therebetween into said chamber, said inlet and outlet conduits being of smaller diameter than said chamber to provide an annular space within said chamber surrounding said gap, means for delivering said stock through said inlet conduit with a whirling helical motion to cause solid particles therein to be discharged radially outwardly through said gap into said surrounding annular space as said stock passes from said inlet conduit to said outlet conduit, said annular space continuing downwardly in said chamber below said gap to receive said discharged particles settling downwardly from said gap, means forming a core in said inlet conduit extending through the interior of said discharge gap into the interior of said outlet conduit to cause all of said stock to flow with said whirling helical motion while passing from said inlet to said outlet, said core terminating at a position spaced within said outlet conduit from said gap to cause deceleration of the rate of flow of said stock through said outlet conduit, and means in said casing below said gap for receiving said particles settling through said annular space.

2,645,347
**VORTEX SEPARATOR FOR PULP**
**Joseph Baxter, Jr., Franklin, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio**
**Application May 20, 1950, Serial No. 163,151**
**15 Claims. (Cl. 209—211)**

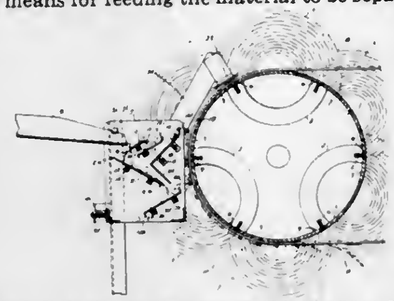


1. A vortex separator for separating heavy particles from a liquid slurry stock, comprising a casing forming a chamber adapted to be filled with liquid, an inlet adapted to deliver stock into said chamber, an outlet from said chamber aligned with said inlet to receive said stock directly from said inlet, means supporting said inlet and said outlet with their adjacent ends spaced in the direction of flow therebetween by a substantial distance to form within said chamber a circumferential gap of substantial axial length for radial discharge of particles into the interior of said chamber from the line of flow from said inlet to said outlet, said gap being of smaller outer diameter than said chamber to provide an annular space surrounding said gap, means for delivering said stock to said chamber through said inlet with a whirling helical motion to cause heavy particles therein to be discharged radially outwardly through said gap into said surrounding annular space means forming a central core extending within said gap from within said inlet to said outlet to cause all of said stock to flow with said helical motion as said stock passes from said inlet to said outlet, said annular space continuing downwardly in said chamber below said gap to receive said discharged particles settling downwardly from said gap, means for supplying clean liquid to the interior of said separating chamber at a position within said chamber located on the upstream side of the discharge end of said inlet to cause said clean liquid to flow inwardly of said discharge gap to said outlet and across the path of discharge therethrough of said heavy particles for washing said heavy particles and returning light particles clinging thereto into the flow of clean stock through said outlet, and means in said casing below said supplying means for receiving said washed particles.

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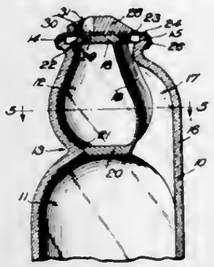
2,645,348
**APPARATUS FOR MAGNETIC SEPARATION OF MATERIALS**
**Ronald C. Hoff, Erie, Pa., assignor to Eriez Manufacturing Company, Erie, Pa., a corporation of Pennsylvania**
**Application June 25, 1949, Serial No. 101,432**
**14 Claims. (Cl. 209—218)**

1. A magnetic separating device comprising a rotating member having magnets spaced around the inner periphery thereof and rotating therewith, said magnets having alternately progressive magnetic poles of opposite polarity around the outer periphery thereof, an inclined baffle spaced laterally from said rotating member within the magnetic fields of said magnets therein, and means for feeding the material to be separated onto the side of said inclined baffle in a direction towards the magnets of said rotating member, said baffle being inclined away and downwardly from said member whereby non-magnetic material is directed therefrom by gravitation and magnetic material is drawn over the top of said inclined baffle towards the outer surface of said rotating member.



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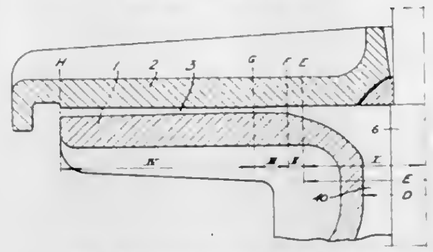
2,645,349
**CREAM SEPARATOR AND CAP**
**Emile Scheemaeker, Woonsocket, R. I.**
**Application March 7, 1949, Serial No. 79,993**
**1 Claim. (Cl. 210—51.5)**



A milk and cream separator for use in cream top milk bottles having a lower milk chamber proper and a superposed cream chamber with an opening in communication between them, an applied cream separator device, as a unit in itself, having a disk shaped stopper member having an opening therein fitting detachably into an internal seat provided in the mouth of the milk bottle and supporting the rest of the cream separator unit within the bottle, the milk bottle having an externally-beaded mouth-edge-portion, a cap element detachably applicable on the bottle with rotatable retentive fitting marginally upon the beaded mouth portion of the bottle, said cap element having an outlet opening for removal of the liquid contents of the bottle, said opening being formed in one end of a thickened lug extending longitudinally over the top of said cap element, the body portion of the cap element directly overlying and movable in contiguity over the stopper member normally in closing relation to the outlet opening of said member, said discharge opening to register communicably with the outlet opening of the stopper member by rotating the cap element by said thickened upstanding lug to position the discharge opening.



2,645,350
**FLOTATION APPARATUS**
**Sven Gösta Nordstrand, Stockholm, Sweden, assignor to Ingeniorsfirman Fliesberg Aktiebolag, Stockholm, Sweden, a corporation of Sweden**
**Application April 13, 1948, Serial No. 20,782**
**4 Claims. (Cl. 210—53)**



1. In a flotation system for separating particles suspended in a liquid of the type which comprises the combination of a container for the suspension, a flotation tank under atmospheric pressure, a conduit connecting said container to said tank, means for passing the suspension through said conduit from the container to the tank, means for pressing air into said conduit to dissolve in the suspension, a nozzle device at the tank end of said conduit consisting of two coaxial discs formed of imperforate material outwardly of their central portions, said discs being axially spaced so as to form between themselves a closed flow passage having an outer peripheral discharge opening, one of said discs being provided with a central axial inlet connected with said conduit and leading to the inner end of said passage, and means for supporting the discs in axially spaced relationship, the improvement comprising that the surfaces of the discs exposed to said passage approach relatively to each other in the radially outward direction in an annular zone at a rate which reduced the flow area and accelerates the speed of flow of the suspension and reduces the static pressure of the suspension to approximately the vapor pressure of the liquid of the suspension.

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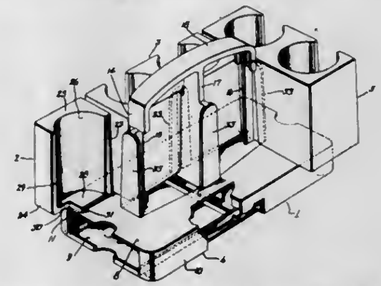
2,645,351
**TOWEL GRIP**
**Isreal J. London, Detroit, Mich.**
**Application November 20, 1947, Serial No. 787,121**
**1 Claim. (Cl. 211—7)**



A towel grip comprising an upright rectangular base, a hollow elongated horizontally swingable housing pivotally mounted at one end upon one end of said base, said housing having a longitudinally cutout portion along its lower edge adjacent to and cooperable with said base forming a horizontal slot therebetween adapted to receive the free ends of a towel folded within said housing, an elongated horizontally arranged gripping element loosely lying within said housing over which the folded portion of said towel is adapted to extend, said cutout portion being narrower than the width of said gripping element in cross section, whereby said gripping element is adapted to frictionally retain said towel within said housing upon an outward thrust applied to one of the towel ends.

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2,645,352
**GAME CHIP HOLDER**
**William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Application February 21, 1951, Serial No. 212,008**
**1 Claim. (Cl. 211—49)**



A game chip holder assembly comprising a rack including a base and a vertically-extending handle portion and a plurality of generally rectangular chip containers having flat outer side and rear walls adapted to be removably mounted on said rack about said handle portion, said handle portion being of substantially rectangular cross section and centrally positioned on said base and comprising a plurality of spaced vertically extending posts connected at their lower ends to said base and at their upper ends to a hand grip, means for removably mounting said chip containers on said base about the four sides of said handle portion with one container at each end of said handle member and the remaining containers evenly distributed along the remaining opposite sides of said handle portion, said means for mounting said chip containers comprising T-shaped projections integral with and extending vertically along the posts comprising said handle member and a T-shaped recess in the rear wall of each of said chip containers, each of said recesses being open at the bottom to receive a cooperating T-shaped projection, each of said containers having a length substantially equal to twice its width plus the thickness of said handle member and said containers together constituting an assembly in which said containers mounted on said handle member by means of said T-shaped projections and corresponding recesses form a hollow rectangle with the side surfaces of adjacent chip containers engaging one another so as to reinforce one another against forces applied to said chip containers and relieve the forces existing between said T-shaped projections and said T-shaped recesses by which said chip containers are supported in assembled relation on said handle and said base.

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2,645,353
**GOLF CLUB BOX**
**Wilbur G. Anderson, Jr., Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan**
**Application August 11, 1947, Serial No. 767,985**
**2 Claims. (Cl. 211—60)**

1. In a structure of the class described, having an upper elongated rectangular structure comprising a back and hollow reinforcing side rails,

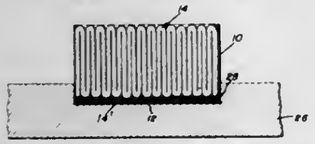
one at each side edge thereof, a foot member at the lower end thereof secured thereto and extending forwardly beyond the front side of said elongated member, said foot member comprising, a hollow box structure having a horizontal bottom, vertical spaced inner and outer sides, the outer side being of greater height than the inner side and an upwardly and outwardly inclined top, and a reinforcing structure of relatively stiff paperboard material located within said foot mem-



ber comprising a horizontal bottom, vertical inner and outer sides, a horizontal top integrally connected with the upper edge of the last said inner side and extending to the front side of said foot member, and thence terminating in an upwardly extending flange reaching to the top of said reinforcing member, said inclined top having tongues struck therefrom, integrally connected at their rear ends to the top and extending downwardly and forwardly to bear against the top of said reinforcing member.

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**2,645,354**
**HOLDER**
**Clifton R. Bradley, Bedford, Ohio**
**Application April 27, 1951, Serial No. 223,403**
**1 Claim. (Cl. 211—69)**

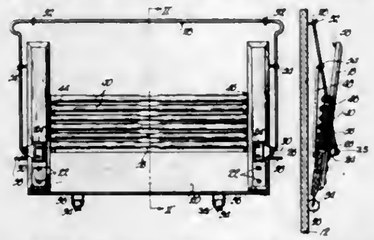


An article holder comprising a base, and a plurality of undulated resilient members each having a soft covering and a wire core, said members including upper and lower humps and vertical portions joining said upper and lower humps, adjacent vertical portions of each member being in contact with each other, said lower humps being adhesively secured to said base.

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**2,645,355**
**GARMENT SUPPORT**
**Harold D. Evans, Kansas City, Mo., assignor of one-half to Helen L. Evans, Kansas City, Mo., and one-half to said Harold D. Evans, as joint tenants**
**Application January 18, 1950, Serial No. 139,285**
**4 Claims. (Cl. 211—104)**

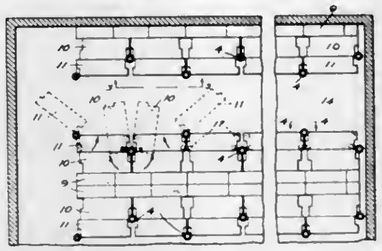
1. A garment support comprising a member having a pair of spaced arms; a number of garment-receiving bars on the arms in spanning relationship thereto; a hanger pivotally attached to said member for mounting the same on a vertical wall or the like; and holding means for the bars pivoted to the member and slidably connected to the hanger, said holding means being swingable toward and away from the bars as the member is swung toward and away respectively



from a substantially vertical position adjacent said wall, said hanger extending outwardly from the arms for clearing the latter when swung to said vertical position, said holding means extending inwardly of the hanger whereby to overlie the ends of the bars to hold the latter in place against the arms when the member is in said vertical position.

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**2,645,356**
**COMPACTED BOOKSTACK**
**Angus S. Macdonald, near Rapidan, Va., assignor to The Globe-Wernicke Co., a corporation of Ohio**
**Application October 11, 1948, Serial No. 53,899**
**3 Claims. (Cl. 211—109)**

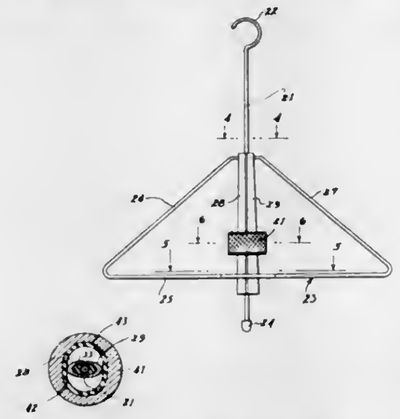


1. In library bookstack construction, the combination of first and second rows of bookcases arranged substantially in a solid bank, each row having at least three bookcases therein, means hingedly supporting the bookcases of the first row at the longitudinal edge of the first row adjacent said second row, and means hingedly supporting the bookcases of said second row at the longitudinal edge of the second row remote from said first row, said hinge means for the respective rows being spaced apart laterally of the bank of bookcases out of alignment longitudinally of the rows of bookcases.

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**2,645,357**
**CHILD'S GARMENT RACK**
**William F. Taylor, Philadelphia, Pa., and Eric K. Lotthammer, Jamaica, N. Y.; said Lotthammer assignor to said Taylor**
**Application March 22, 1951, Serial No. 216,934**
**2 Claims. (Cl. 211—117)**

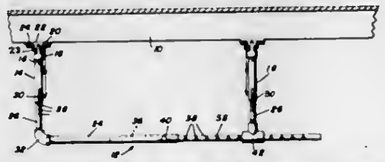
1. An adjustable children's garment rack comprising a rod having a hook formation on its upper end for the connection of the same to a bar rack, a garment hanger supporting portion slidably connected upon the rod, and means for clamping the hanger supporting portion in its adjusted position upon the rod, said rack supporting portion having a bent wire with a transverse rack supporting part and upwardly converging parts extending respectively from the opposite ends of the transverse part, said clamping means comprising opposing rubber lined channel shaped clamping elements connected re-



spectively to the upper ends of the converging part of the rack supporting portion and a turn knob with an elliptical shape opening surrounding the clamping members and the rod and operable between two positions to either engage the channel clamping members to grip the rod or to release the clamping members from the rod in order that the rack supporting member may be adjusted.

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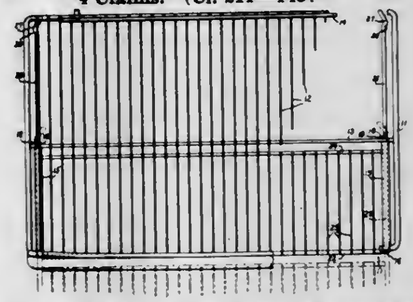
**2,645,358**
**CLOTHESLINE HANGER**
**Walter W. Moore and Charles A. McCormick, Connellsville, Pa.**
**Application February 16, 1951, Serial No. 211,312**
**3 Claims. (Cl. 211—118)**



1. A collapsible clothesline hanger comprising a first depending shaft hingedly secured to a support by a horizontal pivot pin, a second depending shaft, telescopically connected to said first depending shaft, a two-piece brace pivotally secured to said support and to said first depending shaft for maintaining same in a vertical position, a first horizontal shaft carried by said second depending shaft, a second horizontal shaft telescoped within said first horizontal shaft, a third depending shaft hingedly secured to said support in spaced relation to said first depending shaft by a second pivot pin in longitudinal alignment with said first mentioned pivot pin, a fourth depending shaft telescopically connected to said third depending shaft, a horizontal sleeve carried by said fourth horizontal shaft, said second horizontal shaft being slidably supported within said sleeve.



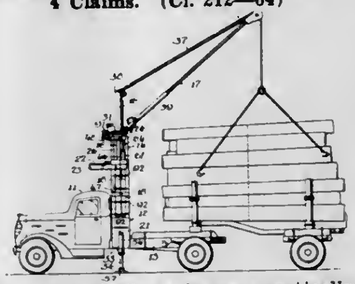
**2,645,359**
**SHELF ASSEMBLY**
**William R. Jewell, Erie, Pa., assignor to General Electric Company, a corporation of New York**
**Application March 26, 1949, Serial No. 83,601**
**4 Claims. (Cl. 211—143)**



1. A shelf assembly comprising a main shelf, a pair of slides secured in parallel spaced relationship to the forward side portions of said main shelf, an auxiliary shelf slidably received by said slides, said auxiliary shelf including a U-shaped frame having a front portion and two side portions, a cross member secured between intermediate portions of said side portions in spaced relationship to said front portion, the spacing corresponding substantially to the length of said slides, a supporting surface between said front portion and said cross member, each of said side portions including an arm extending beyond said supporting surface an amount corresponding substantially to the length of said slides and slidably received by said slides, at least one of said arms being resilient, and a stop formed on the end of said resilient arm for engaging the rear end of a corresponding one of said slides, the resilience of said resilient arm being such that said resilient arm resists deflection and said stop fails to ride over said corresponding one of said slides when a normal pull is applied to said auxiliary shelf whereby said stop limits the forward sliding movement of said auxiliary shelf relative to said main shelf when said supporting surface is fully extended, said resilience of said resilient arm also being such that said resilient arm is deflected inwardly by said stop riding over said corresponding one of said slides only when a greater than normal pull is applied to said auxiliary shelf to afford disassembly of said auxiliary shelf from said main shelf.

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**2,645,360**
**TRUCK LOADER**
**Clifford H. Raymond, Iron River, Mich.**
**Application August 19, 1949, Serial No. 111,216**
**4 Claims. (Cl. 212—64)**

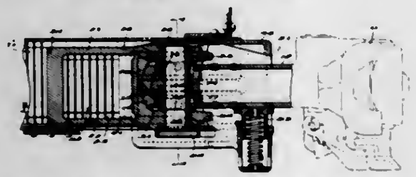


2. A loader including a frame, a vertically movable mast extending upwardly from the frame,

a drum surrounding and keyed to the mast for rotation therewith but permitting relative vertical movement of mast and drum, a boom having its inner end secured to the drum and its outer end supported from the mast, means for rotating the drum and with it the mast and boom comprising flexible strand means wrapped around the drum and extending therefrom in two directions, and hydraulic means carried by the frame for selectively drawing on the strand means in either direction while paying out the strand means in the other direction to rotate the drum.

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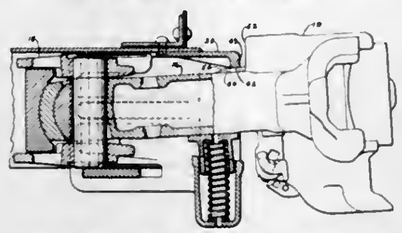
**2,645,361**
**COUPLER YOKE AND DRAFT GEAR ASSEMBLY**
**Harry H. Wolfe, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio**
**Application January 26, 1949, Serial No. 72,871**
**2 Claims. (Cl. 213—46)**



1. In a railway draft appliance, a yoke including a butt and yoke straps extending forwardly from the butt, a vertically disposed strut rigidly connected to the forward ends of the yoke straps, a resilient front draft gear between said yoke straps abutting said yoke butt at its rear end, sills and front draft lugs carried thereby adjacent the strut with rear surfaces of the lugs slightly rearward of a rear face of said strut, a follower engaging a forward end of said front draft gear and overlapping said front draft lugs, nose portions integral with the yoke extending forwardly of said strut, each of said nose portions having a vertically disposed opening therethrough, a spherical concave surface in a forward central portion of the strut, a coupler shank having a vertically disposed opening therethrough, a spherical convex butt end surface on the coupler shank concentric with and adapted to bear on the spherical concave surface on said strut, a vertically arranged pin extending through the openings in said nose portions and the opening in said coupler shank, a concave spherical surface within the butt end of the coupler rearward of the opening in the coupler shank and forwardly of the convex butt end surface, a bearing block having a convex spherical surface concentric with the concave spherical surface within the end of the coupler shank, a hemi-cylindrical surface on the forward portion of the bearing block partly embracing said pin whereby the coupler may angle horizontally and vertically and draft forces are transmitted onto the bearing block and the pin and the yoke straps and the front draft gear and the follower onto the front draft lugs in all horizontal and vertical angled positions of the coupler shank, said opening in the coupler shank being relieved forwardly of the pin to permit rearward movement of the coupler shank relating to the yoke and bearing engagement of the spherical convex butt end on the coupler shank with the spherical concave surface on the strut, a resilient rear draft gear having its forward end in abutting relationship with said yoke butt whereby buffing forces are transmitted onto the strut and through the yoke straps onto the rear draft gear to relieve said pin of buffing forces in horizontal and vertical angled positions of the coupler shank.

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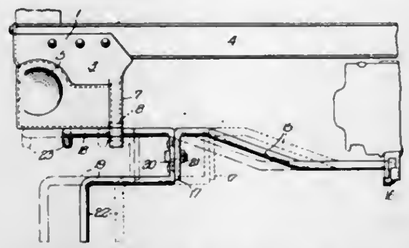
**2,645,362**
**CAR COUPLER**
**Hubert L. Spence, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio**
**Application January 8, 1951, Serial No. 204,871**
**8 Claims. (Cl. 213—62)**



1. In a railway car a striking casting having a coupler receiving opening, a coupler having a shank extending through said opening and being operatively connected to an associated yoke to allow vertical angling movement of the coupler, a carrier resiliently mounted in said striking casting for supporting said coupler in level position, said striking casting comprising a transverse member extending across the upper end of said opening and being spaced from the top surface of said shank a predetermined amount when the coupler is level, and abutment means on said shank extending above the top surface thereof and disposed forwardly of said striking casting when said coupler is in unbuffed position, said abutment means being so arranged that upon movement of said coupler rearwardly in buff said means is positioned beneath said member and is adapted to engage therewith to limit upward angling movement of said coupler.

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**2,645,363**
**COUPLER OPERATING MECHANISM**
**Franklin H. Swint, Hammond, Ind., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware**
**Application May 19, 1951, Serial No. 227,200**
**6 Claims. (Cl. 213—166)**

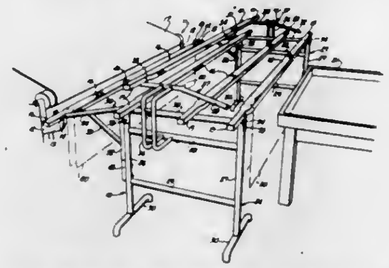


1. An uncoupling mechanism for car couplers comprising a two part uncoupling rod including an inner part adapted at one end for connection to a car coupler for operation of said coupler upon rotation of said rod in one direction and having an angular bend at the other end, an outer part including spaced parallel arms and a portion connecting one end of said arms, said portion being secured to said angular bend of said inner part, the other end of one of said arms provided with a laterally turned portion forming a stop adapted to prevent rotation of said rod in one direction beyond a certain degree, and the other of said arms forming a handle to rotate said rod on its axis of rotation.



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**2,645,364**
**LAUNDRY IRONER RACK**
**Ralph J. Herrcke, Los Angeles, Calif.**
**Application July 3, 1948, Serial No. 36,879**
**3 Claims. (Cl. 214—1)**

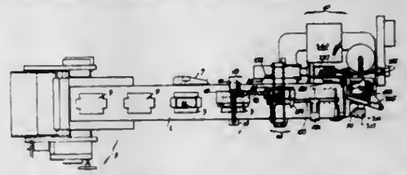


1. A shake-out rack adapted to support laundry shake-out poles and guide the same to a laundry machine, comprising: a frame adapted to be disposed adjacent the machine, said frame having a pair of laterally spaced, inclined, primary guide means upon which the ends of shake-out poles are adapted to rest and along which they can slide in a direction toward the machine; a pair of laterally spaced, vertical, pivot means carried by said frame at its side adjacent the machine; and substantially triangular gate means each having a vertical tubular leg pivoted on one of said pivot means, each of said gate means having a second leg providing a secondary, inclined guide means which provides, when each gate means is pivoted to an extended position, a continuation of said primary guide means along which the poles can be slid to the machine, said secondary guide means being of greater slope than said primary guide means, said gate means being adapted, when pivoted to retracted position against said frame, to effect an unobstructed passageway between the machine and said frame through which attendants of the machine can walk, each of said gate means having a stop shoulder adjacent the intersection of its legs, and including elevating means for raising said gate means during the pivotal movement of the latter to retracted position so as to dispose said stop shoulder in the plane of the shake-out poles disposed on said primary guide means and thus prevent sliding displacement of said poles from said primary guide means.

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**2,645,365**
**TRANSFER DEVICE FOR BOX WRAPPING MACHINES**
**William J. Haessler, Surf City, N. J., assignor to High Production Machine Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania**
**Application July 12, 1950, Serial No. 173,315**
**5 Claims. (Cl. 214—1)**

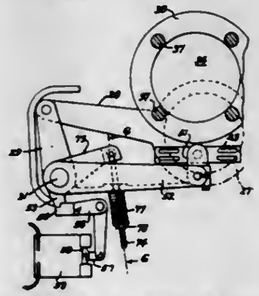
1. A cross feed assembly for box wrapping machines comprising: horizontal ways, a frame in which said horizontal ways are supported, a cross head slidable on said ways, a gripper head assembly vertically movable in said cross head, an abutment adjustably positioned near one end of the ways, means on the gripper head assembly for clamping the side of a box blank, and means



operatively associated with said abutment for actuating the gripper means on movement of the cross head into a zone adjacent said abutment.

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**2,645,366**
**INTERRUPTED CAN END FEED MECHANISM**
**Roland E. Renard, Los Gatos, Calif., assignor to Pacific Can Company, San Francisco, Calif., a corporation of Nevada**
**Application May 20, 1952, Serial No. 288,826**
**4 Claims. (Cl. 214—8.5)**



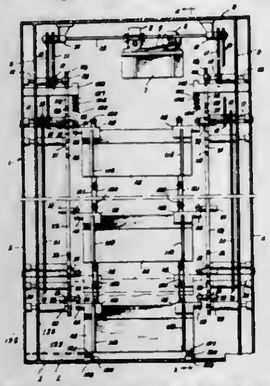
3. In combination, a frame, a hopper for can ends on said frame, a reciprocatory bar slidable in said frame below said hopper, means carried by said bar for removing a can end from said hopper on each stroke of said bar, a shaft journaled in said frame transverse to the direction of reciprocation of said bar, means for oscillating said shaft, a first arm mounted on said frame for oscillatory motion in a plane parallel to the plane of reciprocation of said bar, means for transmitting oscillatory motion of said first arm into reciprocatory motion of said bar, a detent-engaging member carried by said first arm, a movable detent arranged when in one position to restrain said member and said first arm, a solenoid operatively connected to said detent to move said detent toward and away from said one position, a switch proximate said hopper controlling energization of said solenoid to restrain said first arm when the quantity of can ends in said hopper is less than a predetermined amount, a second arm fixed for oscillation with said shaft, a pin on said second arm, and resilient means biasing said first and second arms for oscillatory movement together.

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**2,645,367**
**POWER-DRIVEN AUTOMOBILE LIFT**
**Peter Stabile, Brooklyn, N. Y.**
**Application April 7, 1948, Serial No. 19,593**
**2 Claims. (Cl. 214—16.1)**

1. A power lift and storage device for automobiles, comprising a frame having at least two opposing parallel support members, sprocket wheels rotatably carried by said supports, a sprocket chain belt carried by said sprocket

wheels to form a continuous loop in the plane of each of said supports, inwardly extending projecting pins secured to said chains along spaced intervals thereof, a plurality of vehicle carriers, transverse bars secured to each end of said carriers said bars being adapted to rest upon said pins whereby said carriers are dependingly supported between said supports upon said pins for movement in a vertical direction upon the travel of said chains, second sprocket wheels rotatably carried by said supports located within the area defined by said first chain loops, second sprocket chains carried by said second sprocket wheels



forming additional continuous loops in the plane of each of said supports located adjacent the upper and lower portions of said first chains, inwardly extending projecting pins secured to said second chains along spaced intervals thereof adapted to dependingly support said carriers by means of said transverse bars for movement of said carriers in a horizontal direction upon the travel of said second chains, means including a reciprocable bar interposed between said first and second chains for transferring said carriers for movement in a continuous loop and power means for imparting movement to said chains through said sprocket wheels.

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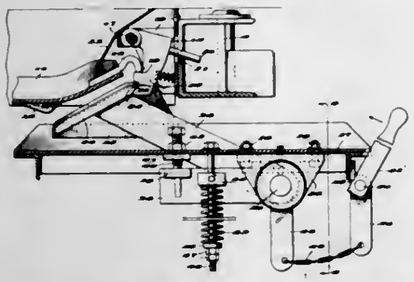
**2,645,368**

**DOOR LATCH TRIPPING MECHANISM**

**Hugh W. Sanford, Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del., a corporation of Delaware**

**Application April 16, 1945, Serial No. 588,577**

**17 Claims. (Cl. 214—58)**



1. In conveying mechanism, including a dumping conveyance having a drop bottom door and mounted on a trackway for movement therealong, said door being mounted for downward swinging movement about an axis extending transversely of the conveyance, the combination of a latch mounted on the conveyance for movement in a direction lengthwise of the conveyance and having means for engaging an edge portion of the door for supporting said door and movable relative thereto to release the door for dropping, said latch having a downwardly and forwardly inclined face below said engaging means, and a tripping member mounted in the trackway in position for upward movement relative thereto to a tripping position, said tripping member having a hook portion thereon in position for engaging the downwardly and forwardly inclined face of the latch when said member is in engaging position to cause movement of the latch to release the door for dropping.

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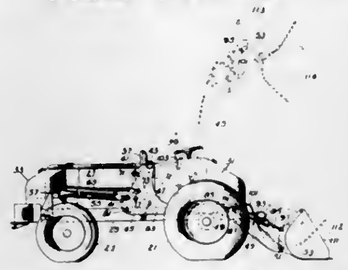
**2,645,369**

**POWER LOADER**

**Frederick W. Allan, Batavia, N. Y.**

**Application March 15, 1950, Serial No. 149,680**

**3 Claims. (Cl. 214—140)**



1. A power loader comprising a vehicle having a driver's seat, a pair of hollow booms, each in the form of a bell crank lever and arranged respectively on opposite sides on the vehicle and each embodying a rearward short arm pivoted to the vehicle at the side of and near the back of the driver's seat and a long arm extending forwardly therefrom, a load carrying element pivotally mounted on the forward ends of said forwardly extending arms, power means for swinging said booms upwardly from a lowered position in which said load carrying element rests on the ground in front of said vehicle to an elevated position in which said load carrying element is above the vehicle, characterized by the novel feature that said booms are so shaped and the arms thereof so disposed that when in their lower position the rear boom arms extend from their pivots downwardly and the long arms forwardly and when in their elevated position the rear arms extend downwardly and forwardly and the forward arms upwardly, said booms when in all positions being below the driver's shoulders to afford free lateral vision and arm and hand movements of the driver, and linkage means extending longitudinally through said hollow booms and pivotally connected to said load carrying element at a point spaced from the pivotal mounting of the latter on said booms to tilt said load carrying element relative to said arms.

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**2,645,370**

**HAND TRUCK**

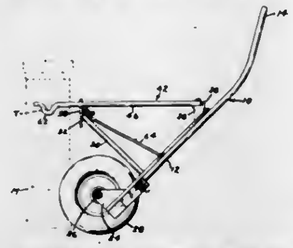
**George W. Black, Houston, Tex.**

**Application November 23, 1951, Serial No. 257,894**

**3 Claims. (Cl. 214—384)**

1. A hand truck comprising a handle member having upwardly inclined spaced substantially parallel legs and a grip carried by and extending between the legs adjacent the upper ends thereof, a substantially inverted U-shaped plate carried by and extending between the legs adjacent the lower end thereof, said plate having spaced parallel elongated recesses opening through the lower end thereof, wheels carried by the plate adjacent the lower end thereof for rotation about a common axis in vertical arcuate paths which extend





into the recesses, the axles of said wheels being in a plane above the plate, upwardly inclined struts carried by the plate adjacent the upper ends of the recesses and terminating above the wheels, and an elongated load support connected adjacent one end to the plate adjacent its upper end and intermediate its ends to the struts adjacent the upper ends thereof.

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**2,645,371**

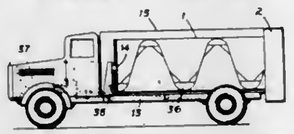
**CHARGING AND DISCHARGING DEVICE FOR REFUSE TRUCKS**

**Albert Blessing, Georg Staudenmeier, Hans Tlich, and Fritz Kaiser, Augsburg, Germany, assignors to Keller and Knappich G. m. b. H. Maschinenfabrik, Augsburg, Germany, a corporation of Germany**

**Application October 3, 1949, Serial No. 119,276**

**In Germany October 6, 1948**

**12 Claims. (Cl. 214—507)**



1. In a device for the charging and discharging of vehicles for loose material having a rotary, drum-shaped container, in combination, a blade wheel adapted to rotate with said container, a circular cover mounted on the stationary part of the vehicle concentrically to, and for swinging about, the axis of rotation of the drum, a chute fixedly mounted in said cover so as to be disposed within the blade wheel, means for locking said cover at the stationary part of the vehicle, and means for releasing said locking means and for locking said cover with the rotary drum and blade wheel unit, said chute serving for the charging and discharging of the drum in two different positions adjustable by swinging said cover about the axis of rotation of the drum.

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**2,645,372**

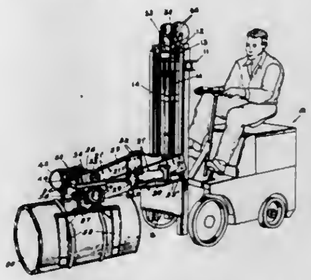
**MATERIAL HANDLING APPARATUS**

**J. Charles Broersma, Kalamazoo, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**

**Application June 12, 1948, Serial No. 32,557**

**2 Claims. (Cl. 214—652)**

1. An attachment for an industrial truck having a vertical mast and elevating means thereon comprising, in combination, a carriage adapted for mounting on said mast and to be moved up and down thereon by said elevating means, an extension projecting forwardly of said carriage, a shaft rotatable about a transverse axis on said extension, a pair of clamp arms rockably mounted intermediate their ends on said shaft, the outer ends of said clamp arms being arcuate for engaging and gripping a cylindrical load therebetween, a power mechanism operatively connected between the inner ends of said clamp arms for moving said arcuate outer ends thereof into and out of engagement with the load, and a power mechanism carried by said extension and operatively connected to said shaft for rotating it and the load gripped by said arcuate outer ends of said clamp arms about said transverse axis.



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**2,645,373**

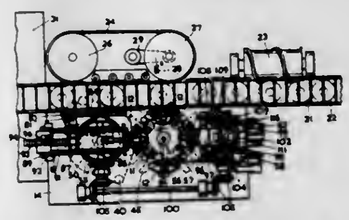
**FEEDING OF LABELS, SHEETS, AND THE LIKE FROM A STACK**

**Alfred German Rose, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company**

**Application February 6, 1951, Serial No. 209,557**

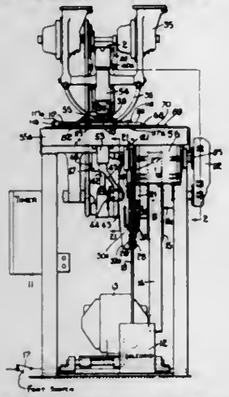
**In Great Britain February 17, 1950**

**10 Claims. (Cl. 216—55)**



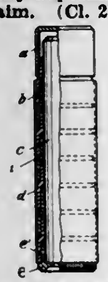
1. Apparatus for feeding labels from a stack, comprising a magazine in which the stack is resiliently urged against a series of retaining members, a pick-up member adapted to seize the end label in the stack, said pick-up member being divided along a straight line in its operative surface, means for causing a relative movement between the pick-up member and the magazine so as to cause engagement between the pick-up member and the stack by which the stack is depressed inwardly out of contact with the retaining members, means for pivoting at least one portion of the pick-up member about an axis coincident with said line after the seizing action and while the stack is so depressed so as to withdraw at least one edge of the label from the magazine, and means for causing the pick-up member subsequently to withdraw the label from the magazine.

**2,645,374**
**FASTENER ATTACHING MACHINE**
**George D. Pickering, Dorchester, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application February 8, 1947, Serial No. 727,461**
**6 Claims. (Cl. 218—6)**



1. In a fastener attaching machine, fastener setting mechanism, a workholding plate movable reciprocally with relation to said fastener setting mechanism, spacing mechanism for imparting intermittent movement to said workholding plate in at least one direction of its reciprocating movement, clamping means for clamping an article to said workholding plate and releasing the same, said fastener-setting mechanism being operable to attach a fastener to a work at each rest in said intermittent movement of said plate, means acting to synchronize said fastener-setting mechanism and said spacing mechanism to attach automatically to a work a predetermined number of fasteners during the course of said intermittent movement of said work-holding plate, means synchronizing said clamping means with said spacing mechanism whereby said clamping means operates to clamp a work to said plate at the beginning of said intermittent movement and release said work at the end thereof.

**2,645,375**
**TUBULAR RECEPTACLE**
**Richard Johannes Töpfer, Bissingen (Enz), Germany, assignor to Inconex Handelsges. m. b. H., Stuttgart, Zuffenhausen, Germany, a firm**
**Application August 4, 1950, Serial No. 177,628**
**In Germany September 20, 1949**
**1 Claim. (Cl. 220—4)**



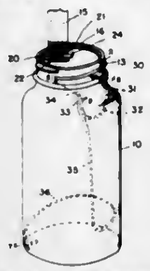
A sectional tubular receptacle for lipstick and the like comprising a plurality of cylindrical shell-like sleeve sections open from end to end adapted to be coaxially assembled, each sleeve section at opposite sides of its transverse median line having a stepped-off zone corresponding to the thickness of the wall of the sleeve and defining a contracted sleeve section at one end thereof and an expanded sleeve section at the other end thereof, said sleeve sections being of subatantially the same length whereby the sleeve sections are telescopically assembled in overlapping relation and interfittingly engaged with each other and presenting inner and outer wall surfaces adjacent and flush to each other and respectively of constant diameters throughout the length of the assembled sleeve sections and a separate closure for the upper and lower ends of the tubular receptacle, each having an annular wall dimensioned to fit adjacent end sleeve sections and for interfitting engagement with each other when separated from said sleeve sections.

**2,645,376**
**CONTAINER SUPPORT**
**Frederick F. Gunther, Chicago, Ill., assignor to Helmco, Inc., Chicago, Ill., a corporation of Illinois**
**Application July 30, 1947, Serial No. 784,737**
**8 Claims. (Cl. 220—17)**



1. A container support for a cylindrical container having an upper bead and adapted for supporting the container from a ledge or the like comprising two substantially semicircular straps arranged to be positioned generally horizontally under the upper bead of the cylindrical container, a plurality of arm members projecting outwardly from each strap for engagement over the ledge for supporting said container, and a pair of lifting hooks, one secured to each of said straps, for lifting the container.

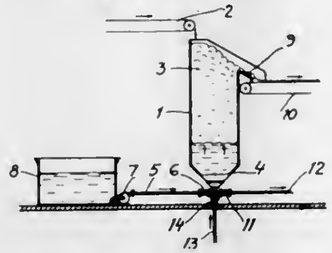
**2,645,377**
**BRUSH WIPER**
**Frank J. Bosley, Detroit, Mich.**
**Application June 14, 1948, Serial No. 32,741**
**7 Claims. (Cl. 220—90)**



1. In combination, a jar having a reduced neck providing downwardly facing shoulders at the interior of the jar, a brush wiper formed from a single elongated element comprising a reversely bent hook portion located within the neck of the jar and extending along a side surface of said neck, an inclined abutment portion adjacent said hook portion engaged under said shoulder, a second inclined abutment portion engaged under said shoulder and spaced substantially from said first mentioned abutment, and a downwardly extending portion engaging the bottom of said jar.

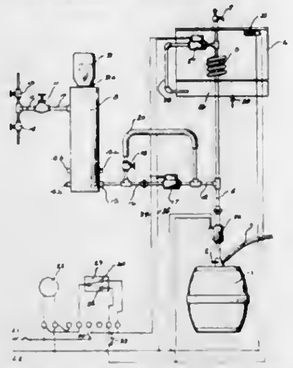


**2,645,378**
**PULP STORAGE TOWER AND METHOD OF EMPTYING SAME**
**Johan Christoffer Fredrik Carl Richter, Karlstad, Sweden, assignor to Aktiebolaget Kamyr, Karlstad, Sweden, a company of Sweden**
**Application March 5, 1948, Serial No. 13,214**
**In Sweden March 20, 1947**
**14 Claims. (Cl. 222—1)**



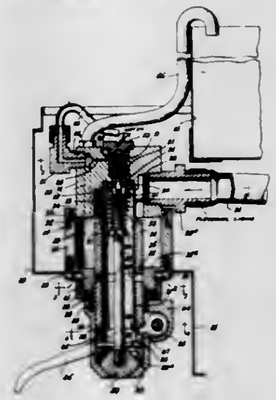
1. In the cellulose and paper making industry, the method of emptying high consistency fibrous pulp from a substantially vertical storage tower containing a column of pulp charged into said tower from the top thereof, which comprises introducing a liquid under pressure into the bottom of the tower directly below the pulp therein at a rate of flow such that a distinct border surface is maintained between the pulp and the liquid introduced, thereby progressively displacing the column of pulp upward to the top of the tower so as to effect discharge of the pulp at the top of the tower.

**2,645,379**
**AUTOMATIC CLEANER SOLUTION SUPPLY FOR BEER DISTRIBUTING SYSTEMS**
**Benjamin Audia, Washington, Pa.**
**Application October 7, 1952, Serial No. 313,548**
**2 Claims. (Cl. 222—23)**



1. Pipe flushing apparatus for a beer dispensing system including a keg, a coil adapted to be refrigerated, a spigot, and piping for normally causing the flow of beer from said keg through said coil and said spigot, said apparatus comprising, in combination, an electric control circuit including electrically operated valve means for said piping for normally causing the flow of beer from said keg through said coil, a mixing tank for storing a pipe cleaning material, hot water inlet and outlet connections for said tank, a timer controlled switch in said circuit for controlling said electrically operated valve means to interrupt said flow of beer from said keg to said coil and to simultaneously effect flow of said cleaning solution from said tank through said coil to effect flushing thereof, the duration of said flushing being controlled by the setting of said timer controlled switch, and signal means in association with said spigot and controlled by said timer controlled switch.

**2,645,380**
**FAUCET FOR MEASURING, MIXING, AND DISPENSING BEVERAGES**
**John H. Donnelly, New York, N. Y., assignor to Canada Dry Ginger Ale, Incorporated, New York, N. Y., a corporation of Delaware**
**Application October 20, 1948, Serial No. 55,488**
**2 Claims. (Cl. 222—133)**

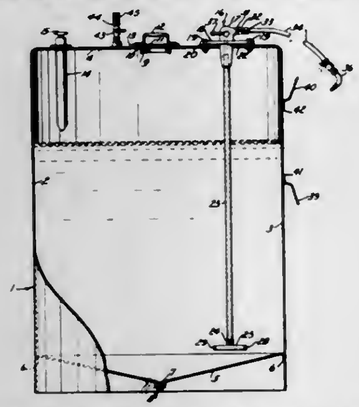


1. A stationary beverage dispensing device comprising a housing having therein a chamber providing a substantially fixed hydrostatic pressure for flavoring liquid, said chamber having an inlet passage and an outlet passage, a slide valve within the housing movable to substantially simultaneously open one of said passages and close the other of said passages, a duct for carbonated water concentrically disposed in relation to the chamber, a normally closed spring-seated valve controlling said duct, said slide valve and spring-seated control valve being concentrically disposed, a discharge spout below both said chamber and said duct, and a single means for operating said valves.

**2,645,381**
**PORTABLE DISPENSING TANK**
**Charles W. Lattman, Oakland, Calif.**
**Application March 8, 1948, Serial No. 13,540**
**1 Claim. (Cl. 222—189)**

A portable dispensing container for liquid comprising a substantially cylindrical body portion having a top wall and a centrally depressed, threadedly-apertured bottom wall, means engageable in said aperture for normally closing said container, means in said top wall forming a filler opening, a filler cap mounted in said opening, a manually operated pump mounted on said top wall and entering said container for a distance whereby the lower end thereof is normally above the liquid level and arranged on actuation thereof to create a pressure on the upper surface of the liquid in the container, said pump being positioned so that substantially all but the handle thereof is disposed within said container, a bleeder cock mounted on said top wall and above

the maximum upper level of the liquid, said cock including a resilient extension member having an aperture therein, a delivery cock also mounted on the top wall and having a delivery tube extending downwardly into said tank to a point just above the upper extremity of said bottom wall, a flexible delivery hose connected to said delivery cock



externally of said container, a nozzle releasably connected to said hose and having a strainer interposed therebetween, said nozzle being attachable to and detachable from said bleeder cock extension for protecting said nozzle from the ingress of foreign matter when said container is not in use.

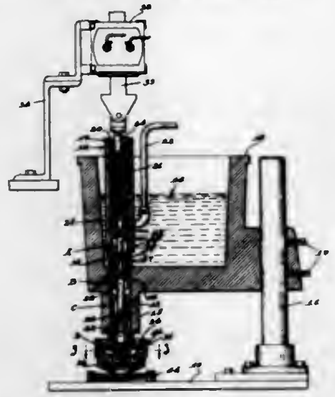
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**2,645,382**
**COMBINED SPOUT AND STRAINER**
**Harold E. Plough, Laporte, Minn., assignor of one-half to Harold R. Mitchell, Bemidji, Minn.**
**Application August 2, 1950, Serial No. 177,206**
**2 Claims. (Cl. 222—189)**



1. A combined spout and strainer comprising an internally threaded sleeve, an elongated and straight channel-shaped member including an inner arcuate edge at one end fixed to said sleeve and disposed about at least one half of the sleeve, said member having spaced side flanges extending throughout the length of the member, the ends of the flanges remote from the sleeve being convex, an inturned flange at the end of said sleeve to which said arcuate edge is fixed and having an inner flat surface, a resilient sealing ring secured to the inner flat surface of said inturned flange, a circular plate underlying the inturned flange and the ring and within the sleeve, a finger grip secured to the outer face of the plate, said plate including an inner face, and a resilient sealing gasket secured to the inner face of said plate, said plate having a series of outlet openings therein, said plate being rotatable within the sleeve by said finger grip and being held in a selected rotated position by tightening the sleeve on the neck of a jar to force the plate against the sealing ring, the openings in said plate being arranged in groups so that material may be dispensed through a selected group.

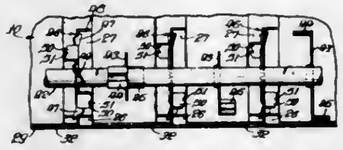
**2,645,383**
**GLUING APPARATUS WITH MULTIPORTED APPLICATOR**
**Ira H. Miller, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio**
**Application August 31, 1949, Serial No. 113,409**
**14 Claims. (Cl. 222—193)**



1. A liquid applicator comprising an open pot containing liquid, a cylinder assembly partially submerged in said liquid, including a lower tube extension of the pot, the pot having an opening therethrough, the walls of which form a part of the cylinder assembly, the assembly also including an upper tube extension to the pot, and a cylinder in fixed connection with said upper tube extension, all in register, said cylinder assembly having an opening to a source of gas under pressure and an opening to the liquid in the open pot, a piston valve assembly including a sectional shaft, a solid valve piston, and a valve piston with channels therethrough parallel to the longitudinal axis, said pistons so arranged that the gas and liquid openings are alternately opened and closed by the action of said pistons, means for reciprocating said piston valve assembly, a liquid dropper comprising a head having a fixed connection to the cylinder assembly and having liquid discharge orifices, valves seated in said orifices and actuated by the piston assembly in timed relation with the opening and closing of the gas and liquid openings.

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**2,645,384**
**MATERIAL SPREADING APPARATUS**
**Edmond A. Juzwiak and Fortunato S. Ajero, Chicago, Ill., assignors, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware**
**Application May 15, 1950, Serial No. 162,000**
**15 Claims. (Cl. 222—240)**

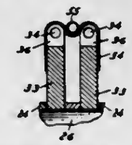


15. In a material spreader of the character described including a hopper having a discharge port, a rotatable shaft, means for closing said port and means for rotating said shaft: a disk-shaped member on said shaft including a plurality of arms extending laterally of the member, alternate arms extending on opposite sides of said member and each including one or more teeth in the projecting end thereof, said arms positioned to penetrate into said discharge port as said member rotates and to move closely adjacent to the sides of said port.



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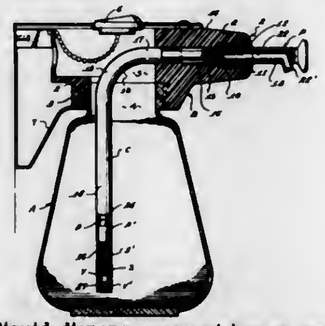
**2,645,385**
**PRECISION SEED PLANTER**
**Herman Wechsler, Ventura, Calif., assignor, by mesne assignments, to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware**
**Application October 28, 1949, Serial No. 124,018**
**1 Claim. (Cl. 222—274)**



In a seed selecting device having a seed hopper and a pair of axially adjacent seed selecting wheels coaxially rotatably mounted so that a portion of their peripheries pass through said hopper, said wheels having a plurality of seed receiving pockets formed in their peripheries; the improvements comprising an arcuate transparent cover formed to surround a portion of the path of rotation of the peripheries of both seed wheels, said cover having a re-entrant portion projecting radially inwardly between said seed wheels, means for pivotally supporting one end of said cover, and a helical spring disposed in said re-entrant portion and arranged to secure said cover in fixed relation relative to the rotary path of the peripheries of said wheels.

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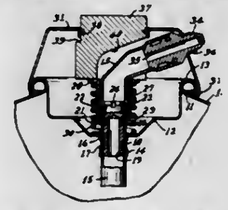
**2,645,386**
**DISPENSER FOR THICK AND VISCOUS LIQUIDS**
**Arthur L. Bobrick, Pasadena, Calif., assignor to Bobrick Manufacturing Corporation, Los Angeles, Calif.**
**Application June 5, 1950, Serial No. 166,137**
**5 Claims. (Cl. 222—321)**



1. A liquid dispenser comprising: a container, a head secured to the top of the container, an operating plunger horizontally slidable on said head and provided with an outlet passage through which liquid may be expelled, a rigid pump barrel having its upper end secured to said head and its lower portion depending into the liquid of said container and having an inlet port for admitting liquid to said barrel, a piston slidable in said barrel and in constant communication at its lower end with said barrel, a tubular stem connecting said piston with said plunger for correspondingly reciprocating said plunger and said piston in relatively right angular planes, said tubular stem being so connected with the piston and the plunger as to conduct liquid from the barrel below the piston and thence through the piston to the outlet passage of the plunger in a dispensing operation, an inlet valve in the bottom of said barrel for regulating flow of liquid to the barrel, a retractor spring borne by the barrel and compressible on the downstroke of the piston for retracting the piston and the plunger to normal position at the completion of each dispensing operation, and a compression spring between the piston and valve engageable by the piston at a predetermined point in the downward travel of the piston for applying pressure to and closing said valve to prevent evacuation of resident liquid in the barrel and create pressure in the barrel below the piston for discharging the liquid through the piston, stem and plunger for use.

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**2,645,387**
**FLEXIBLE TUBE DISCHARGE VALVE CONSTRUCTION**
**Samuel Kahn, Bridgeport, Conn., assignor, by mesne assignments, to Maryland Devices, Inc., Baltimore, Md. a corporation of Maryland**
**Application June 16, 1950, Serial No. 168,477**
**15 Claims. (Cl. 222—394)**



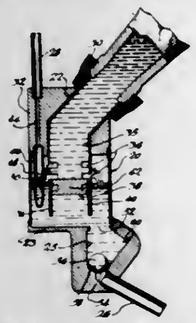
1. A discharge valve for a pressure-tight container comprising a valve core having a hole formed therein which extends longitudinally into the lower end thereof but terminates therein below the upper end thereof, a flexible discharge tube surrounding said valve core, means for permanently maintaining the tube pressed tightly against the lower side wall of the valve core in pressure-tight relation thereto, a passageway extending laterally through the side wall of the valve core and intersecting said hole in the valve core above that portion of the valve core tightly engaged by the flexible tube, an annular collar surrounding said tube and said valve core and having a portion of smaller inner diameter than the diameter of the upper end of the valve core, said collar being movable axially into and out of a position in which said portion thereof presses said tube against the upper end of said valve core in pressure-tight relation above said passageway, and a spring normally urging the collar toward the position in which it presses the tube against the valve core.

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**2,645,388**
**LIQUID DISPENSER**
**Dwight Hester, Chicago, Ill.**
**Application June 25, 1947, Serial No. 756,982**
**8 Claims. (Cl. 222—454)**

1. A liquid dispenser adapted to be secured to the mouth of a bottle for dispensing a measured

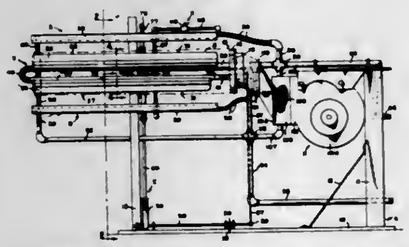
quantity of liquid, comprising an air vented container adapted to hold a measured quantity of liquid, means forming a large diameter inlet to said container contiguous with and in continuous flow relationship with the mouth of the bottle, a perforated tube continuous with said inlet extending into said container and thereby communicating with the interior of said container, a buoyant valve slidable in said tubular continua-



tion and movable to close said inlet when said condenser has been filled with liquid and movable to open position to permit flow of liquid into said container when said container is not filled and the angle of the dispenser is such that liquid will flow into said container from said bottle, an outlet from said container, and a ball valve adapted to close said outlet when the container is in filling position and to open said outlet when said container is in pouring position.

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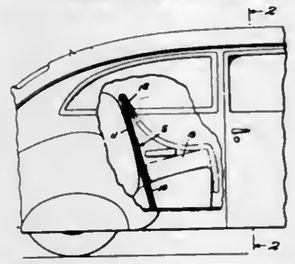
**2,645,389**
**TROUSERS PRESSER**
**William G. Raper, Wetumpka, Ala.**
**Application June 27, 1951, Serial No. 233,846**
**10 Claims. (Cl. 223—73)**



1. A machine for simultaneously creasing the legs of a pair of trousers, including a support structure; means carried by said support structure for supporting the trousers with the legs thereof spaced apart, each leg being held taut transversely, and with the locations of the creases defined, including two pairs of spaced-apart elongated tubular supports and an elongated fin rigidly mounted upon each support, each fin having an elongated trousers leg-receiving narrow edge; each pair of supports comprising one support directly above the other, with the fin carried by said one support extending upwardly away from the fin carried by and extending downwardly from the other support and each of the fins of a pair being in the same vertical plane; means for simultaneously moving one support of each pair transversely toward and away from the other support of each pair; creasing means for creasing said legs at said locations, including an elongated, hollow head associated with each fin, said heads being disposed in pairs with the two heads associated with the two upper fins constituting one pair of heads and the two heads associated with the two lower fins constituting another pair of heads, each head having an elongated recess facing and opening to its associated fin and spaced therefrom at all times, the walls of each recess being provided with a plurality of steam-discharge openings; means for simultaneously moving all of said heads toward their associated fins, until said narrow edges are within said recesses and spaced from the walls thereof and said steam-discharge openings face toward those portions of the fins adjacent said edges, and for simultaneously moving all of said heads away from their associated fins; means for conveying steam to said hollow supports and to said heads; and means to cause steam to discharge through said plurality of steam-discharge openings when said narrow edges are within said recesses.

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**2,645,390**
**CLOTHES RACK FOR VEHICLES**
**Edith H. Colman, Bethel, Conn.**
**Application May 17, 1950, Serial No. 162,480**
**1 Claim. (Cl. 224—29)**



A clothes rack for use within a vehicle body having the usual transversely disposed seat and a back inclined with respect thereto, comprising a pair of straight longitudinally extensible standards to rest upon the floor of the vehicle and frictionally engaged near their lower portions and held only by such friction between the ends of said seat and the adjacent sides of said vehicle body in an upright position with the upper portions thereof resting against said back at substantially the same inclination as the latter, means for holding said standards in their extended positions, and a telescopic cross rod connecting the upper ends of said standards normally disposed below the upper end of said back.

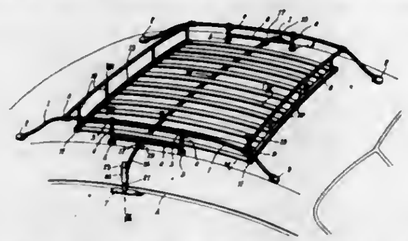
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**2,645,391**
**REMOVABLE LUGGAGE CARRIER**
**Olivier Lecanu-Deschamps, Levallois-Perret, France**
**Application December 2, 1949, Serial No. 130,646**
**In France October 3, 1949**
**6 Claims. (Cl. 224—42.1)**

1. An automobile-attachable luggage carrier which comprises in combination: a frame including main side members and cross members, a luggage grid depending from said cross members, said main side members having downwardly inclined end parts extending beyond said cross members at each end thereof into auxiliary supporting engagement with an automobile top surface, a pair of posts slidably mounted on and depending from each main side member, a supporting shoe at the base of each side post for



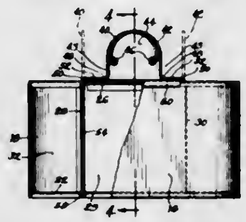
main supporting engagement with said top surface, an auxiliary side member interconnecting said posts on each main side member, a member cross-connecting the opposite auxiliary side members and extensions at each end of said cross-



connecting member extending laterally and downwardly into retaining engagement with side projections of said automobile, and vertically adjustable means for varying the pressure of said retaining engagement.

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**2,645,392**
**COMBINATION VEHICULAR AND PORTABLE FOOD AND BEVERAGE CONTAINER**
**Marten Gottsegen and Herbert N. Stein, Chicago, Ill.**
**Application February 15, 1952, Serial No. 271,722**
**7 Claims. (Cl. 224—42.01)**

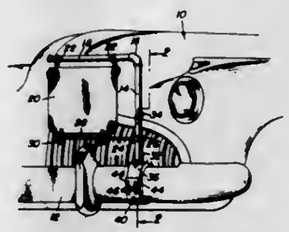


1. A portable container comprising an elongated enclosure having rounded ends and substantially straight sides, a bottom fitted within said enclosure, vertical partitions positioned transversely in spaced relationship one with the other within said container, to afford three compartments, each of said partitions formed with a horizontally flanged portion at the top, a cover hingedly mounted for closing at least one of said compartments, a pair of wire members threaded through aligned openings in said flanged portions and said bottom, each of said wire members having its top end portion bent in semi-circular shape affording a clamp, an intermediate portion of each wire member positioned horizontally for locking the center one of said compartments, said wire members rotatable to a position wherein said semi-circular bent top portions are adjacent each other, and a pair of vacuum bottles removably positioned one in each end compartment.

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**2,645,393**
**WATER BAG CARRIER FOR MOTOR VEHICLES**
**Ralph W. Campbell, Deaver, Wyo.**
**Application January 17, 1951, Serial No. 206,437**
**5 Claims. (Cl. 224—42.03)**

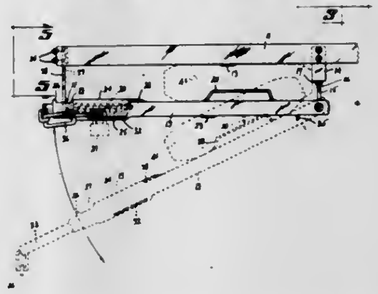
1. A water bag carrier for motor vehicles comprising a vertical support standard having a laterally extending arm for dependingly supporting a water bag, a collar slidably mounted on said standard and adjustable both vertically and horizontally of said standard, a rod extending lat-



erally from said collar, means on said rod detachably engaging the lower end of a water bag, a clamp for mounting said standard upon the bumper of a motor vehicle.

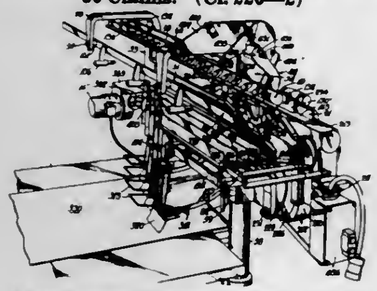
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**2,645,394**
**SPARE TIRE HOLDER**
**Harry De Bord, Winterset, Iowa**
**Application May 8, 1950, Serial No. 160,620**
**7 Claims. (Cl. 224—42.22)**



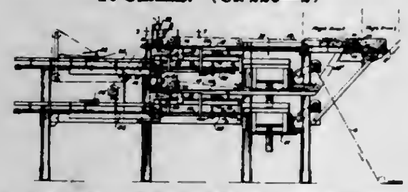
1. In a spare tire holder, a rectangular frame member, a Y-shaped frame having its diverging end portions hingedly vertically adjustably secured at opposite points at one end of said rectangular frame member, a bar member extending transversely between two opposite sides of said rectangular frame, a bar member extending transversely between the diverging arms of said Y-frame in the same direction as said first mentioned bar member, a one way spring loaded latch on the end of said Y-frame opposite its hinged end, a latch receiving arm vertically adjustably secured to said rectangular frame member at a point where it is capable of becoming interlocked with said latch, at times, means for manually releasing said latch from engagement with said latch receiving arm, an elongated lever lifting arm slidably mounted on said Y-frame so as to be capable of being extended outwardly from said Y-frame at times, stop means to limit the movement of said lever arm in one direction, a second stop means to limit the movement of said lever arm in the opposite direction; said stop means respectively operating to limit the movement of said lever arm in opposite directions, and a flexible locking means secured at one end to said lever arm and capable of being secured to said means for releasing said latch whereby said latch is locked against release and at the same time said lever arm is locked against any sliding movement.

2,645,395
**BAGGING MACHINE**
Tamis C. Schenk, Richmond Hill, N. Y., assignor, by mesne assignments, to Fruit Products Corporation, New York, N. Y., a corporation of New York
Application March 8, 1950, Serial No. 148,446
30 Claims. (Cl. 226—2)



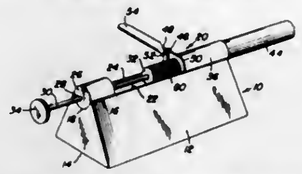
1. An automatic bagging machine of the type using a stick-holder for suspending stick-held confections, such stick-holder having a longitudinally extending handle operated by lifting up thereon to open such stick-holder, said machine comprising means for supporting such stick-holder in horizontal position, means for advancing such stick-holder along said horizontal supporting means, means actuated in timed relation with such stick-holder advancing means, movable transversely across such stick-holder to lift up such handle to open such stick-holder to release the ends of such sticks thereby dropping such confections, means associated with such stick-holder to retain such released confections in substantially vertical position after they have been dropped with the released upper ends of such sticks still in such stick-holder, a hopper for bags associated with said last-named means, and means associated with said last-named means to drop such released confections vertically into the bags in said hopper.

2,645,396
**APPARATUS FOR FILLING BAGS**
Carl W. Spohr, Chicago, Ill., assignor to The Curtiss Candy Company, Chicago, Ill., a corporation of Illinois
Application March 12, 1946, Serial No. 653,724
10 Claims. (Cl. 226—2)



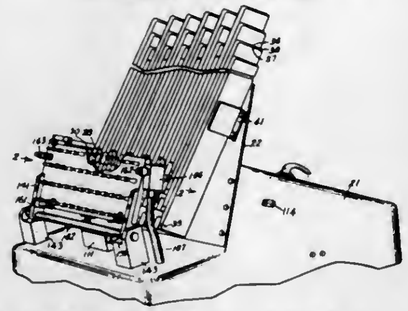
1. The combination of a preliminary conveyor having succession of article-carrying pins and two receiving conveyors running adjacent to successive portions of the preliminary conveyor and having article-carrying pins on each, opposed to and at times approximately aligned with the pins on the preliminary conveyor, a rotating arm device operating in timed relation to the preliminary conveyor for pushing intermittent articles from the pins thereof to the pins of one of the receiving conveyors, and a stationary cam for pushing onto the pins of the other receiving conveyor the articles coming adjacent thereto on the preliminary conveyor.

2,645,397
**COUNTING AND PACKING MACHINE**
William P. McCallick and Ygnacio L. Sanchez, Los Angeles, Calif.
Application January 28, 1948, Serial No. 4,788
2 Claims. (Cl. 226—14)



2. A coin packaging machine comprising a base member, a tubular element carried by and paralleling said base member and having a notched portion intermediate its ends, a bearing sleeve integrally formed with one end of said tubular element, a plunger slidably mounted in said bearing sleeve and said tubular element for movement toward and away from said notched portion, said tubular element having an end portion remote from said sleeve and provided with an inner guiding edge adjacent the notched portion, and a closure plate pivoted to the tubular member adjacent the notched portion for movement into and out of said notched portion, said closure plate being in engagement with said inner guiding edge for reinforcement of the closure plate when the latter is pivoted to the notched portion.

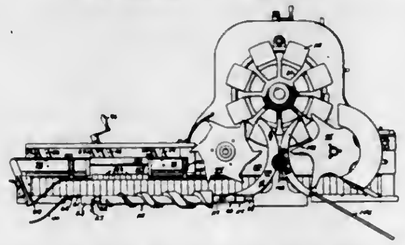
2,645,398
**STICK DISPENSING MACHINE**
Ralph F. Anderson, Rockford, Ill.
Application April 8, 1949, Serial No. 86,154
13 Claims. (Cl. 226—14)



8. In a stick dispenser and the like, the combination of a plurality of rows of stick feeders including a feed plate movable between a first and a second position, a pressure fluid unit including a cylinder and a piston reciprocably disposed in the cylinder to effect the above movement of the plate, solenoid valve means including a first solenoid coil for controlling the flow of pressure fluid to one end of the cylinder and a second solenoid coil for controlling the flow of pressure fluid to the opposite end of the cylinder, a first electric circuit for connecting said first solenoid coil to a source of power, a first switch connected in said first circuit for controlling the energization of said first solenoid coil to effect movement of the plate from said first to the second position, a second electric circuit for connecting said second solenoid coil to a source of power, a second switch connected in said second circuit for controlling the energization of said second solenoid coil, and means on said plate operable to actuate the second switch in the second position of the plate to energize said second circuit and effect return of the plate to its first position.

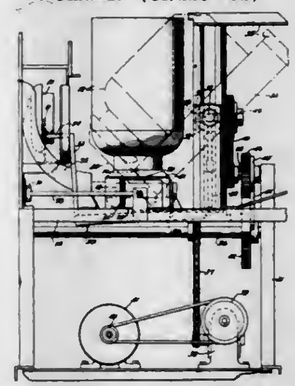


2,645,399
**MACHINE FOR APPLYING AND SEALING CLOSURES TO BOTTLES**
John S. Bozek, Franklin Park, and Hermann E. Weidanz, Chicago, Ill., assignors to Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia
Application May 11, 1951, Serial No. 225,782
12 Claims. (Cl. 226—88)



3. A machine for applying and sealing closures to bottles comprising a main base housing, said housing supporting a motor therein, a vacuum pump driven by said motor and supported within said housing, a rigid conveyor frame assembly positioned adjacent said housing, a rotatable vertical main drive shaft supported by said housing, a rotatable pedestal carrier supported by said shaft, a rotatable sealing head bracket supported by said shaft, said carrier and said bracket moving in unison, a plurality of pedestals supported by said carrier, a plurality of sealing heads supported by said bracket, said pedestals and said heads arranged in common vertical alignment with one head positioned above each pedestal, means for causing the pedestals to ascend and descend from the carrier during rotation thereof, a closure chute adapted to support a closure in position to be engaged by the top of a moving bottle, a closure applying means cooperating with the moving bottle top to cause the closure to be applied on the bottle top as the bottle moves past said closure applying means, a star wheel mounted adjacent said pedestal carrier and power driven by said main drive shaft, a moving conveyor supported by said conveyor frame for feeding filled bottles in spaced relation to said star wheel, said star wheel mounted on one side of the conveyor and a timing means mounted on the opposite side of said conveyor, a curved rigid guide rail extending to said timing means, said conveyor for receiving the filled bottles at random and for delivering said bottles one at a time to and from said timing means, said timing means including a horizontal timing-screw having trunnion bearings associated therewith for quick removal thereof, said timing-screw for intercepting filled bottles fed by the conveyor and equidistantly spacing the bottles for conveying engagement by said moving conveyor, a chamber mounted at one side of said conveyor opposite said timing-screw, a plurality of springs mounted within said chamber, a series of vertical, yieldable guiding plates spring mounted in the side of said chamber toward said timing-screw, a plurality of horizontal members extending horizontally within said chamber for supporting said plates, said horizontal members adjustable in relation to said chamber for changing the spring tension effecting said plates, said conveyor frame provided with a plurality of angularly arranged horizontal supporting members, a common movable member slidably mounted upon said horizontal supporting members, a curved guide rail extending to said chamber, a substantially straight guide rail extending from said chamber, said guide rails and said chamber secured to said common movable member whereby said chamber and guide rails may be moved toward and away from said timing-screw in an angular direction, and means for moving said member with said chamber and rails secured thereto.

2,645,400
**CAN COVER INSERTING DEVICE**
Harry D. Lathrop, Chicago, Ill., assignor to The Lathrop-Paulson Company, Chicago, Ill., a corporation of Illinois
Application February 28, 1950, Serial No. 146,794
3 Claims. (Cl. 226—92)

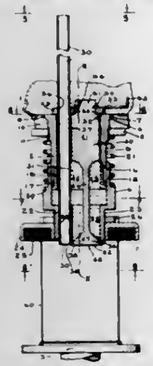


1. In can and can cover treating apparatus in which the can is advanced upon a track with the bell-shaped mouth of the can resting upon the track and in which the can cover is advanced with its neck rolling upon a separate track and slightly in advance of the can, means for checking the movement of the cover near the discharge end of the apparatus, a platform below the end of the can track, a guide for directing the cover to a position upon said platform with the neck thereof extending upwardly in front of and below said track, a spring-urged shoe adapted to urge said can cover towards said track, means for pushing a can off the end of said track so that it falls in a vertical path upon the neck of said cover, and a cradle rotatably mounted at the end of said track and having feet extending on opposite sides of said platform for lifting the inverted can and cover and uprighting the same.

2,645,401
**FILLING VALVE WITH HEAD SPACE PROVIDING MEANS**
Charles E. Kerr, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application June 10, 1946, Serial No. 675,621
16 Claims. (Cl. 226—124)

1. Apparatus for filling a container with liquid from a reservoir comprising a housing including relatively movable sections forming a chamber therewithin, an inlet valve associated with said housing intermediate said chamber and reservoir,

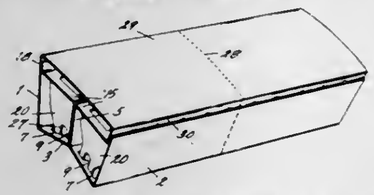
an outlet valve associated with said housing intermediate said chamber and the container to be filled, and an air vent tube secured to one of said sections including means operable for effecting se-



quential operation of said valves upon relative movement of said sections to thereby control the admittance of liquid from the reservoir to the container through said chamber.

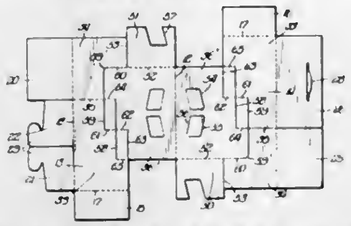
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**2,645,402**
**COLLAPSIBLE CELLULAR CARTON**
**Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan**
**Application February 12, 1951, Serial No. 210,605**
**3 Claims. (Cl. 229—28)**



1. A collapsible carton formed of an integral blank and comprising front and rear side walls, bottom members hingedly joined to the lower edges of the side walls, longitudinal partition members hingedly joined to the inner edges of the bottom members and adhesively secured together in side by side relation, top members hingedly joined to the upper edges of the longitudinal partition members and to the inner sides of the side walls, said top members constituting cross members connecting the upper portions of the side walls with the said longitudinal partition members, the bottom members being outwardly inclined when the carton is erected, said top members being slitted and scored to provide transverse partition members hingedly connected thereto, the longitudinal partition members having hinging scores therein disposed in spaced parallel relation to and above the said hinging connections for the bottom members to the longitudinal partition members, the lower adhesive connecting the longitudinal partition members being above the said hinging scores in said longitudinal partition members whereby the lower portions of the longitudinal partition members may swing outwardly to permit expansion of the side walls, and a cover hingedly connected to the upper edge of the rear side wall and provided with a closure flap on its swinging edge having tongues engageable with the top members adjacent the front wall.

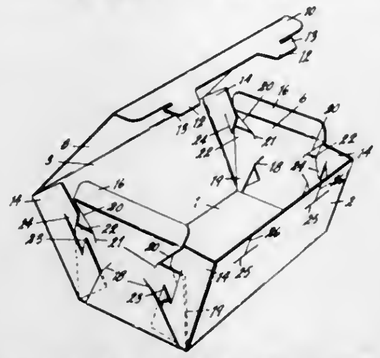
**2,645,403**
**BOTTLE CARRIER**
**Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois**
**Application January 15, 1947, Serial No. 722,123**
**5 Claims. (Cl. 229—28)**



1. An article carrier fabricated from a one-piece paperboard blank and comprising a pair of panels defining an upstanding partition member, a lateral flap hinged to an end of each of said panels and folded inwardly to position between the latter, spaced side walls paralleling said member on opposite sides thereof, end walls hinged by vertical creases to end margins of said side walls, said end walls each including a panel to which one of said partition member panels is hinged by a vertical crease extending only partly of the height of the end wall panel, said flaps being separated by cuts in the blank from the material of said respective end wall panels, division members bendably connected to said respective side walls and member on vertical hinges and adapted to extend between the respective panels and said respective side walls, said division members serving to divide the space on either side of the partition member into cells, said partition member being in fixed vertical relation to said division members and side walls, and means providing a bottom for the carrier connected to said walls.

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**2,645,404**
**COLLAPSIBLE COVERED CONTAINER**
**Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan**
**Application November 21, 1949, Serial No. 128,575**
**6 Claims. (Cl. 229—36)**



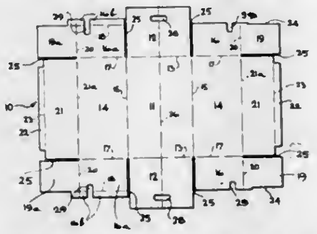
1. A container comprising bottom, front, rear and end walls hingedly connected to the bottom, and a cover hingedly connected to the top edge of the rear wall, the cover having means for detachably connecting the cover to the front wall, the front and rear walls having corner flaps hingedly connected thereto, the end walls being



provided with cover supporting flaps at their outer ends and having slits extending diagonally inward from their bottom edges, said end walls having recesses in their end edges and slits extending downwardly from the bottoms of the recesses, the first mentioned slits in said end walls being adapted to receive the inner edges of the corner flaps when the container is erected, said corner flaps having upwardly projecting tongues engageable with the upper edges of said first mentioned slits of the end walls and having downwardly projecting tongues spaced from the upwardly projecting tongues engageable over the bottom edges of said recesses in said end walls, the slits extending downwardly from the said recesses permitting deflection of portions of the end walls below the recesses facilitating engagement of the downwardly projecting tongues therewith.

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**2,645,405**
**COLLAPSIBLE AND REUSABLE CARTON**
**Irving Dorfman, New York, N. Y., assignor to Federal Carton Corporation, North Bergen, N. J., a corporation of New York**
**Application May 6, 1950, Serial No. 160,449**
**1 Claim. (Cl. 229—38)**

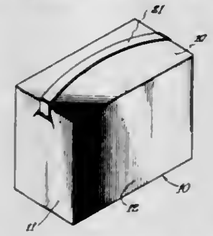


A collapsible carton comprising a longitudinally extending bottom panel, longitudinally extending side walls panels hingedly connected to said bottom panel, a front end wall comprising front end panels respectively hingedly connected to the front edges of said side panels, a front cover flap comprising front cover flap panels respectively hingedly connected to said front end panels, said front end wall having an end overlap flap hingedly connected to the inner edge of a first front-end panel and secured to a face of the other front end panel, said front cover flap having a front cover overlap flap hingedly connected to the front portion of the inner edge of the front cover flap panel which is connected to said first front end panel, said front cover overlap flap being also secured to a face of the other front cover flap and hingedly connected to the upper edge of said end overlap flap, said front cover overlap flap terminating forwardly of the rear edge of said front cover flap, the inner edges of said cover flap panels being spaced from each other to form a front slot located rearwardly of said front cover overlap flap, a rear end wall and a rear cover flap constructed in the same manner as said front end wall and said front cover flap, inner end flaps respectively hingedly connected to the front and rear edges of said bottom panel and foldable against respective end walls to provide respective reinforcing end walls, cover panels respectively hingedly connected to the respective upper edges of said side wall panels, and adapted to be positioned over said cover flaps, tuck-in flaps respectively hingedly connected to the respective inner edges of said cover panels, each of said tuck-in flaps extending longitudinally between the front end of the front slot and the rear end of the rear slot and being adapted to be inserted in said slots whereby to lock said tuck-in flaps frictionally and releasably, said bottom panel and said inner end flaps respectively having medial longitudinal fold lines, whereby said carton is collapsible by folding said inner end flaps downwardly against said bottom panel and said cover flaps into respective alinement with said end walls and then simultaneously folding outwardly said bottom panel and said inner end panels along their respective fold lines, and said end walls and said cover flaps along the hinge lines of their respective overlap flaps.



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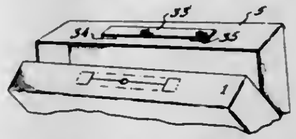
**2,645,406**
**BOX**
**Irving Robins, Chicago, Ill., assignor to Add-A-Handle Carton Company, Chicago, Ill., a corporation of Illinois**
**Application February 6, 1948, Serial No. 6,582**
**2 Claims. (Cl. 229—52)**



1. A carton assembly comprising a rectangular container of pliable sheet material, having a frusto-conical slot in opposite side walls adjacent the upper edge, a handle strap straddling the top wall and engageable through the slots, the handle strap comprising an elongated body portion dimensioned to be of greater length than the distance between the slots and of lesser width than the upper edge portion of the slot of smallest dimension and extending inwardly therethrough, enlarged co-planar sections integral with the ends of the strap and dimensioned to have a width less than that of the slots at their base and greater than that of the slots at their upper edge, said co-planar sections being positioned in the interior of the carton and upturned so as to be positioned adjacent the inner wall of the carton above the slotted portion whereby the co-planar section engages the inner wall of the carton adjacent the upper end of the slot.

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**2,645,407**
**BOX WITH CARRYING HANDLE**
**Robert M. Bergstein, Wyoming, Ohio**
**Application September 1, 1948, Serial No. 47,171**
**5 Claims. (Cl. 229—52)**



1. In a paperboard box having in the closed condition juxtaposed inner and outer wall panels, a handle element comprising a strip of stretchable creped paper adhesively secured at its ends only to the said inner wall of the box, said strip of stretchable material being adhesively

secured to the said inner wall panel in planar, fully extended and substantially unstretched condition, an opening in the outer wall of said box overlying said handle element, said handle element being stretchably displaceable through the opening in said outer wall panel to form a carrying handle for said box.

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**2,645,408**
**ATTACHABLE AND DETACHABLE HANDLE CLOSURE COMBINATION**
**Harry L. Eckles, New Orleans, La.**
**Application August 8, 1949, Serial No. 109,143**
**1 Claim. (Cl. 229—52)**

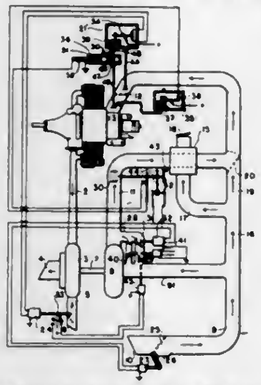


An improved combined handle closure for a container having closure flaps provided with wings comprising a handle having its intermediate portion bent upwardly to provide a hand-grip, the opposite end portions of the handle being bent upwardly to provide terminal abutments, the handle having bearing portions disposed between each of the abutments and the adjacent portion of the bent-up hand-grip, a pair of substantially U-shaped wing gripping members mounted upon each bearing portion, each wing gripping member comprising a pair of spaced apart substantially parallel arms, the free end portions of the arms being tightly wrapped about their respective bearing portions in frictional engagement therewith for preventing accidental rotation of the gripping members about the bearing portions but permitting rotation of said gripping members about the bearing portions through at least 180 degrees when desired, the intermediate portion of each gripping member being bent over upon its arms to provide a flange disposed in spaced parallel relation to the plane of said arms to define a pocket between said arms and said flange for the reception of one of the wings of the container closure flaps, the wrapped around portions of the arms of one wing gripping member of each pair of members being disposed outwardly of the wrapped around portions of the other wing gripping member of each pair of members to prevent independent axial movement of the arms on the bearing portions, said wrapped around portions of each pair of wing gripping members being confined between the adjacent abutment and the adjacent end of the bent-up hand-grip, each arm extending downwardly and outwardly from its bearing portion to a point intermediate the ends of the arm and then extending outwardly in a substantially horizontal plane.

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**2,645,409**
**AIR INDUCTION SYSTEM HEATING IN SUPERCHARGED ENGINE**
**John Arthur Lawler, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware**
**Application May 17, 1948, Serial No. 27,396**
**2 Claims. (Cl. 230—5)**

1. In the air supply system of an aircraft engine having an air intake throttle valve and incorporating a turbo-supercharger and having a turbo-waste-gate control means responsive to throttle valve pressure drop, a return duct from the supercharger outlet to the supercharger inlet whereby air supplied by the supercharger can be heated by recirculation through the supercharger, a control valve in the return duct, means operatively connected to the control valve for adjustment thereof, a sheltered air inlet in the supercharger inlet duct, a ram air inlet in the supercharger inlet duct, a valve means to open either the sheltered inlet or the ram inlet to the supercharger inlet duct and a valve positioning means operatively connected to the ram inlet



and sheltered inlet valve and the return duct control so that when the return duct is open, the supercharger inlet is open only to the sheltered inlet, and a pressure sensitive device connected to the throttle valve outlet and the atmosphere, said device being operatively connected to the waste gate control to modify its action so as to maintain the pressure upstream of the throttle valve above a predetermined minimum by operating the supercharger and thus obtaining recirculation heat when required.

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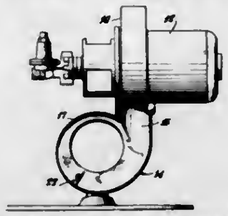
**2,645,410**
**GASEOUS FLUID COMPRESSOR**
**Louis Bauger and Jean Roty, Paris, France, assignors to Société dite: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a French company**
**Application May 4, 1948, Serial No. 24,945**
**In France May 5, 1947**
**9 Claims. (Cl. 230—114)**



1. An air compressor comprising an adjustable diffuser with a stationary crown surrounding the rotor of said compressor, a second crown rotatably mounted on said stationary crown, a plurality of vanes the rear end of each of which is pivotally connected to said stationary crown, said rotatable crown having a series of circular recesses formed therein, a plurality of circular discs each rotatively mounted in one of said crown recesses and a second plurality of pins each pivotally and eccentrically connected to one of said discs, each said pin being fixed to opposite end portion of one of said vanes and means for moving said second crown.



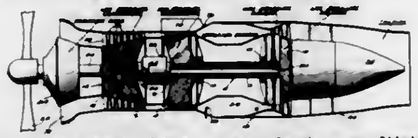
**2,645,411**
**CONTROL DEVICE FOR OIL BURNERS**
**Robert F. Andler, Rutherford, N. J., assignor to Electrol Burner Manufacturing Co., Inc., Rutherford, N. J., a corporation of New Jersey**
**Application November 13, 1950, Serial No. 195,444**
**1 Claim. (Cl. 230—114)**



In an oil burner, the combination with a blower having an air discharge port, a scroll case having an air inlet port in communication with the blower discharge port, and a blast tube leading from the scroll case at right angles to the axis of the inlet port, of a vane having a flat face in said scroll case adjacent a peripheral wall thereof and between the inlet port and blast tube, said face being of substantially smaller surface area than the inner cross-sectional area of the scroll case in order to avoid stoppage of air through said scroll case from said blower, means including a shaft for mounting said vane on an end wall of said scroll case for rotation about an axis parallel to the axis of the blast tube, and means including a knob positioned externally of said end wall and connected to said knob for effecting rotation of said vane into desired positions of adjustment for varying the characteristics of the air directed through said scroll case.

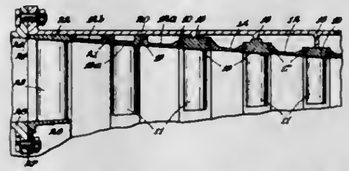
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**2,645,412**
**LOCKING DEVICE FOR SPLIT-COMPRESSOR TYPE TURBOPOWER PLANTS**
**William H. Sens, Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application September 28, 1949, Serial No. 118,384**
**3 Claims. (Cl. 230—116)**



1. In a gas turbine power plant, a multistage compressor with the stages arranged in separate rotating groups of high and low pressure stages, a multistage turbine with the stages arranged in separate groups, a driving connection from one group of turbine stages to the high pressure compressor stages forming an outer rotating spool, another driving connection between the other groups of compressor and turbine stages forming an inner spool with both spools on the same axis, an axially slidable member mounted on one of said driving connections, means for connecting said axially slidable member with the second driving connection so that said spools will rotate as a unit when the rotational speed of the second driving connection tends to exceed the speed of the first driving connection, and means for disconnecting said axially slidable member from said second driving connection when the rotational speed of the first driving connection tends to exceed the speed of the second driving connection.

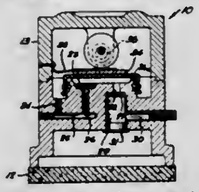
**2,645,413**
**STATOR FOR MULTISTAGE AXIAL COMPRESSORS**
**Frederick William Walton Morley, Aston-on-Trent, and Wilfred Henry Wilkinson, Old Normanton, England, assignors to Rolls-Royce Limited, Derby, England, a British company**
**Application April 6, 1948, Serial No. 19,374**
**In Great Britain April 16, 1947**
**4 Claims. (Cl. 230—132)**



1. A stator for a multi-stage axial-flow compresser comprising a tubular casing; and within the tubular casing an assembly comprising a plurality of sets of stator blading, each set comprising a plurality of blading elements each having at its root end a blade platform which extends axially and circumferentially of the casing, said platforms together forming a substantially continuous ring at the roots of the blading elements, and a plurality of spacer rings each of said spacer rings being removable from within said tubular casing and separate therefrom, being located between the sets of stator blading and having axially directed faces abutting the axially-directed faces of the platforms of the sets of stator blading to hold the sets in axially spaced relation, inter-engaging means on the abutting axially-directed faces of the platforms and the adjacent spacer rings to locate the blading elements and spacer rings radially of one another; and axial abutment means between the assembly and tubular casing to locate the said assembly of sets of stator blading and removable spacer rings axially with respect to the tubular casing, and radial abutment means to locate said assembly coaxially within the tubular casing.

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**2,645,414**
**AIR PUMP**
**Hans G. Malerhofer, New York, N. Y.**
**Application May 25, 1949, Serial No. 95,261**
**3 Claims. (Cl. 103—170)**

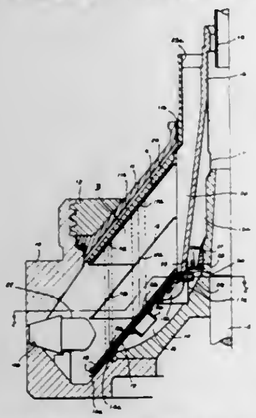


1. An air pump comprising a housing, a partition for the housing dividing the interior thereof into an upper and a lower compartment, the partition having formed thereon a rim on the side of the upper compartment and extending upwardly therein, the partition having formed therein a passageway intermediate the chambers and a second passageway intermediate the interior of the rim and the interior of the upper compartment and a third passageway intermediate the interior of the rim and the outside of the housing, an inlet valve disposed in the second mentioned passageway, an outlet valve disposed in the third mentioned passageway, means for

introducing air into the lower compartment, an elastic diaphragm disposed over the rim, and means for vibrating the diaphragm.

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**2,645,415**
**CENTRIFUGAL BOWL**
**George J. Strezynski, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey**
**Application March 7, 1950, Serial No. 148,202**
**12 Claims. (Cl. 233—28)**

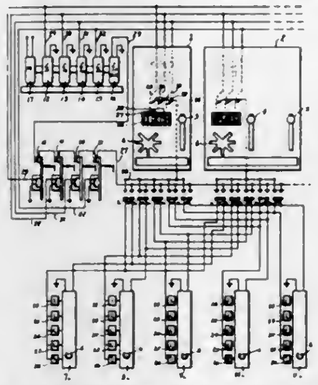


1. In a rotatable centrifugal bowl for separating materials into components of different specific gravities and having partition means dividing the bowl interior into primary and secondary separating chambers, the partition means having an opening displaced outwardly from the inner portion of the primary chamber for delivering into the secondary chamber material partially separated in the primary chamber, the secondary chamber having outlets at different radii from the rotation axis of the bowl for discharging separated components of the material, the combination of means forming an inlet passage communicating with the inner portion of the primary chamber for delivering thereto the material to be separated, a flow-restricting member supported within said passage means at the junction of the inlet passage with the primary chamber and having a free outer edge forming with said passage means, at said junction, the inner confine of an orifice through which the material to be separated passes into the inner portion of the primary chamber, said member also having a generally horizontal wall extending from the orifice inward toward the rotation axis of the bowl through a substantial greater distance than the width of said orifice and partly defining, at the outlet side of the orifice, a quiescent zone of the primary chamber located between said junction and said axis, and a hollow tube extending from the partition means inwardly beyond said free edge and into the quiescent zone, the tube forming a light component passage leading outwardly from said zone through the partition means into the inner portion of the secondary chamber.

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**2,645,416**
**VENDING SYSTEM**
**Frank Massa, Cleveland Heights, Ohio**
**Application November 9, 1944, Serial No. 562,721**
**24 Claims. (Cl. 235—1)**

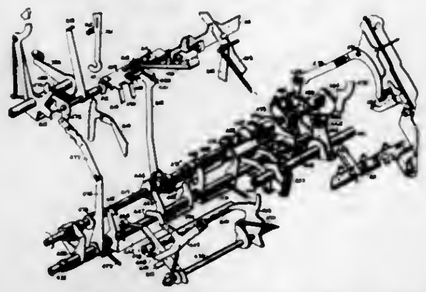
1. In a vending system, a plurality of different key means, a plurality of dispenser units, each including actuating means operable by any one of said plurality of different key means for dispensing a given commodity, a plurality of remotely located adding machines, one for each of said different key means, electrical connection means extending from each of said plurality of dispenser units to each of said plurality of adding machines, a plurality of sources of electrical power, each of a different frequency, connected to each of said plurality of dispenser units; and a plurality of



electrical price signalling means, one for each of said dispensing units connected to said sources of power, for affecting the circuit from said sources of power to said adding machines in accordance with the price of an article dispensed, the electrical signalling means in the dispensing unit operated by a given key means signalling to only the adding machine corresponding to said given key means for causing said adding machine to add the price of the article dispensed in response to the operation of said dispenser unit by the given key means.

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**2,645,417**
**TRUE NEGATIVE TOTAL RECORDING MECHANISM**
**Howard M. Fleming, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware**
**Application June 2, 1951, Serial No. 229,581**
**16 Claims. (Cl. 235—60.2)**

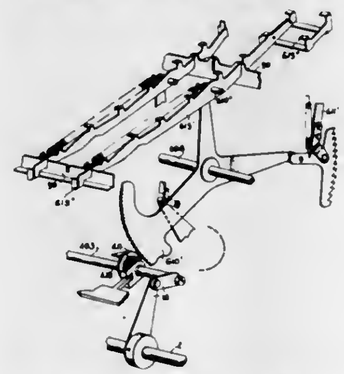


15. A machine of the class described having a plurality of register wheels including tens carry devices for each of said wheels, movable actuators for each of said wheels, means to reciprocate said actuators, type bars movable in accordance with the positions of said actuators, printing hammers associated with said type bars, operating means for said hammers, total taking means, devices for converting a complemental value stored upon the register wheels to a true negative value including operating control devices therefor; enabling means for said control devices operable under control of a selective register wheel of higher order and alternatively operable under control of a selective register wheel of lower order whereby said register wheels will enable said means to cause the aforesaid operating devices to effect an operation of the true negative total devices.



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**2,645,418**
**BALANCE SCHEDULING MEANS FOR LISTING CALCULATING MACHINES**
**Howard M. Fleming, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware**
**Application July 6, 1951, Serial No. 235,453**
**8 Claims. (Cl. 235—60.15)**



1. In a machine of the class described, the combination of a totalizer including a shaft upon which totalizer wheels are mounted, a plurality of actuator racks and related differential stop bars associated therewith adapted to enter amounts additively or subtractively into the totalizer wheels, cyclic operating means and printing devices operable by said means; with a month printing control wheel mounted on the totalizer shaft, a separate actuator rack operable with the first named racks to adjust the month printing control wheel forwardly or reversely, a differential stop bar movable with the separate actuator rack, a plurality of depressible month keys adapted for cooperation with said stop bar to limit the extent of movement of said bar during a cyclic operation to condition the month control wheel to a starting position in accordance with a depressed month key and wherein a subsequent setting of said month keys will act to limit movement of the month rack to control an indexing of the month control wheel in various steps of indexing movement in accordance with the set key in a forward sequence coincident with both additive and subtractive cycles of operations performed upon the totalizer wheels, printing means associated with the month printing control wheel and operable by the cyclic operated printing devices, means for preventing operation of the month printing means upon operation of the cyclic printing devices in said conditioning cycle of operations of the month control wheel, means for rendering said preventing means ineffective and for disabling the cyclic printing means during indexing cycles of operations of the month control wheel, means whereby said month printing control wheel is disassociated from the month indexing control keys in a subsequent cycle of operation and means for automatically re-enabling the cyclic printing devices during said cycle.

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**2,645,419**
**ITEM AND TOTAL PRINTING MECHANISM FOR CALCULATING MACHINES**
**Robert Léon Gourdon, Paris, France, assignor to Societe Anonyme dite: Centre d'Etudes M. B. A., Paris, France**
**Application October 3, 1950, Serial No. 188,224**
**In France October 8, 1949**
**6 Claims. (Cl. 235—60.37)**



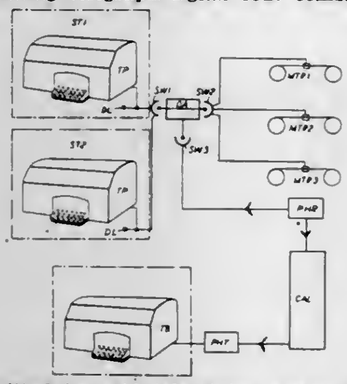
1. In a selective multiple printing register for calculating machines and the like, first and second character printing wheels, said wheels being adjacent and rotatable about a common axis, each numeral wheel having its periphery divided into a plurality of sectors, each sector having a printing character formed on its periphery, except that said first wheel has a recess at one of its sectors, said second printing wheel having a radius smaller than that of said first printing wheel but substantially larger than the radius of the bottom of said recess, a printing member having a portion received in the recess of the first wheel and bearing a printing character on its periphery, means connecting said member to the first wheel for concurrent rotation therewith and for limited radial movement with respect thereto between a retracted position wherein said printing character is within the radius of said second printing wheel and a printing position wherein said printing character is radially aligned with the periphery of said first printing wheel, spring means biasing said member to its retracted position, means for producing relative radial movement between said printing wheels and a sheet to be printed in a sense to impress the peripheries of said wheels against said sheet, said first wheel being then effective due to its larger diameter to impress one of its characters on said sheet unless said item wheel is in a neutral position wherein the character on said printing member is nearest said sheet, and means for moving said printing member to its printing position against said spring means, said printing member moving means being effective when said first wheel is in its neutral position to determine whether a character on said second wheel or the character on said member is printed on said sheet.

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**2,645,420**
**CALCULATOR EQUIPMENT WORKING WITH TELEPRINTER**
**William Hatton, Great Neck, N. Y., Leslie Baines Haigh, West Orange, N. J., and Ladislas Kozma, Budapest, Hungary, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application July 1, 1947, Serial No. 758,274**
**In Great Britain February 16, 1940**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires February 16, 1960**
**14 Claims. (Cl. 235—61)**

14. An electric calculator system comprising an electric calculator responsive to a first electric signal code representing a mathematical problem

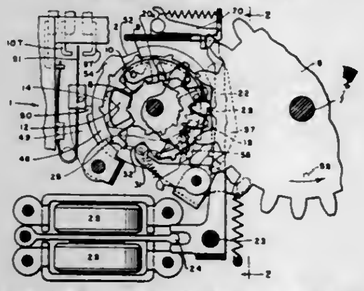
to be solved, code translating means, teleprinter means adapted to transmit and receive printing telegraph code signals, a two wire line, said teleprinter means adapted to be selectively connected to said translating means via said line under control of said teleprinter means, said translating means adapted to be selectively connected to said calculator under control of said teleprinter means, said translating means comprising control means responsive to a particular printing telegraph signal code combination




transmitted by said teleprinter means, means under control of said last-named means to seize said calculator, said control means responsive to particular signal code combinations transmitted by said calculator upon seizure thereof, means for repeating said signal code combinations to said teleprinter means, additional means for repeating printing telegraph code signals to said calculator representing a mathematical problem, and further means for repeating signal code combinations from said calculator to said teleprinter means representing the solution of a problem.

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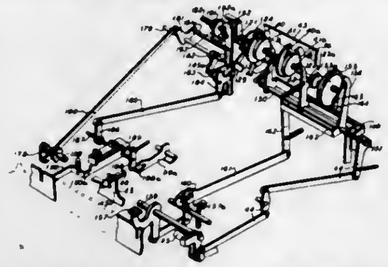
**2,645,421**
**ACCUMULATING CONTROL MECHANISM**
**Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application December 31, 1951, Serial No. 264,326**
**6 Claims. (Cl. 235—61.6)**



5. A cyclically operable device adapted to accumulate values and to provide a control circuit at a time in each cycle corresponding to the total amount accumulated during preceding cycles comprising, in combination, a driving element, an accumulating element, clutching mechanism therebetween, a clutch controlling lever, means for rocking said lever in a direction to effect clutching at a time in each cycle corresponding to the value to be accumulated, means for rocking said lever in a direction to effect declutching at a fixed time in each cycle, a freely rotatable member carrying a brush adapted to engage any one of a plurality of contacts corresponding to the different possible positions of said accumulating element, an abutment portion on said accumulating element for limiting movement of said member to a position for engaging said brush with the contact corresponding to the position of said accumulating element, means for yieldingly urging said member toward said abutment portion, means for holding said member each cycle against the action of said yielding means until said accumulating element has been advanced a distance proportional to the amount to be accumulated, a control circuit including said brush and means for subjecting said plurality of contacts successively to a voltage pulse.

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**2,645,422**
**CARRIAGE POSITION CONTROL MEANS FOR ACCUMULATION OF PRODUCTS AROUND A FIXED DECIMAL POINT**
**Frederick W. Pfleger, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware**
**Application February 23, 1951, Serial No. 212,215**
**11 Claims. (Cl. 235—63)**



1. In a motor driven calculating machine having a shiftable register carriage, means for ordinarily shifting said carriage, differentially settable multiplier storage devices, multiplier keys, and means operable to enter values successively into said storage devices upon sequential depression of a series of said multiplier keys; means for ordinarily locating said carriage, comprising a normally disabled power transmission train adjustable for operation in response to depression of each multiplier key to initiate an ordinal operation of said shifting means, conditioning devices for adjusting said power transmission train to operative position including manually operable control means therefor, a control key, and normalizing devices operable upon depression of said control key to disable said power transmission train.

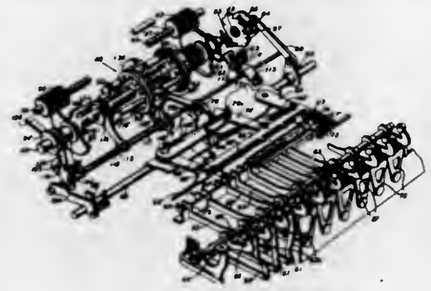
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**2,645,423**
**MULTIPLICATION CONTROL MECHANISM FOR CALCULATING MACHINES**
**Frederick W. Pfleger, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware**
**Application January 10, 1951, Serial No. 205,304**
**13 Claims. (Cl. 235—79)**

1. In a motor driven calculating machine having a shiftable carriage, a product register on said carriage, cyclic differential actuators for said register, and means for denominationally shifting said carriage; multiplication control means, comprising a series of differentially settable multiplier storage elements, selection means operable



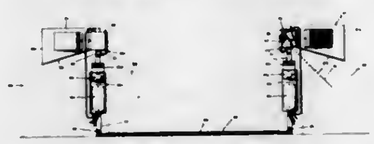
to set said elements each to digit representing positions or to a zero representing position, means for initiating operation of said actuators, control devices operable to terminate operation of said actuators, a member operable in response to operation of said control devices to initiate denominational operation of said carriage shifting means, a feed device for said elements, mounting means adapted for step-by-step adjustment to effect relative movement of said elements with said feed device and said control devices whereby said elements are successively each



either located, if set to a digit representing position, for operation by said feed device or rendered effective, if set to said zero representing position, to cause operation of said control devices, means for driving said feed device in time with said actuators thereby feeding an operatively associated storage element toward a position to cause operation of said control devices, drive means operable in response to operation of said control devices to effect a step adjustment of said mounting means, and means operable upon termination of the operation of said shifting means to reinitiate operation of said actuators.

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**2,645,424**
**CHICK COUNTING DEVICE**
**Ward J. Wright, Kanawha, Iowa**
**Application August 27, 1951, Serial No. 243,841**
**2 Claims. (Cl. 235—98)**



1. For use in the sexing of chicks, a chick counting device comprising a pair of chick-receiving structures, one of said structures being provided for receiving pullet chicks and the other for receiving rooster chicks, a pair of signal devices corresponding to said structures, means on each of said structures for actuating a corresponding signal device when a predetermined number of chicks have been deposited in the structure, and a retractable and extendible base member attached to and positioned between said structures such that when said base member is extended said chick-receiving structures are moved to spaced apart positions to provide for the positioning of a box of unsexed chicks on said base member between said structures, and when said base member is retracted said structures are moved to positions adjacent each other.

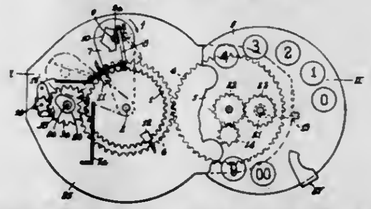
**2,645,425**
**COUNTER MECHANISM**
**Harvey N. Bliss, Windsor, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut**
**Application June 22, 1949, Serial No. 100,563**
**1 Claim. (Cl. 235—110)**




In a registering mechanism, a frame, a first set of two co-axially mounted indicators arranged in end-to-end relationship and adapted to be viewed from one end of the frame; each of said indicators comprising a plurality of co-axially mounted wheels of successively higher denomination, a driven gear associated with each wheel, and transfer means between adjacent wheels; a second set of two like co-axially mounted indicators arranged in side-by-side relation to said first set and adapted to be viewed from the opposite end of the frame, the wheels of said first set being arranged in reverse order to those of said second set, a first shaft and a second shaft mounted in said frame between said two sets of indicators in spaced parallel relation thereto and to each other, an idler gear journaled on said first shaft and meshing with the driven gear of the wheel of lowest order of one of the indicators of the first set and located at one end of said set, means for driving said second shaft, a gear fixed to said second shaft and meshing with said idler gear, a gear fixed to said second shaft and meshing with the driven gear of the wheel of lowest order of one of the indicators of the second set and located at the other end of said second set, a driven unit journaled on said first shaft between its ends and having a gear meshing with the driven gear of the wheel of lowest order of the other indicator of the first set, and an idler unit journaled on said second shaft and meshing with said last mentioned gear and with the driven gear of the wheel of lowest order of the other indicator of the second set, the driving connections being so constructed and arranged that the wheels of the two sets of indicators are driven in opposite directions whereby identical readings on the indicators may be obtained from opposite ends of the frame.

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**2,645,426**
**PREDETERMINED COUNTER VALUE SETTING DEVICE**
**Carlo Sansone, Genoa, Italy**
**Application February 26, 1948, Serial No. 11,206**
**In Italy May 4, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires May 4, 1963**
**4 Claims. (Cl. 235—132)**

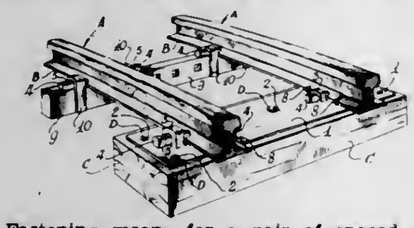



1. A counting device comprising a counting unit having a plurality of digit pinions, a plu-

rality of selecting gears rotatably mounted on a shaft in meshing engagement with said digit pinions, a number dial having holes for receiving a finger, means connecting the number dial with the shaft, bracket means fixedly mounted on said shaft for rotation therewith, a plurality of pawls pivotally mounted on said bracket means for engagement with the teeth of the said selecting gears, cam means rotatably mounted in said bracket means in engagement with said pawls and arranged to lower each of said pawls successively into engagement with the selecting gears during rotation of said cam means, abutment means positioned in the path of said cam means for engagement with said cam means upon rotation of said shaft and said bracket means for imparting partial rotation to said cam means during rotation of said shaft.

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**2,645,427**
**RAIL FASTENING MEANS**
**Clovis Naud, Deschambault, Quebec, Canada**
**Application November 3, 1950, Serial No. 193,857**
**1 Claim. (Cl. 238—51)**

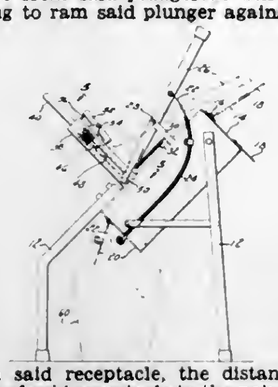


Fastening means for a pair of spaced rails comprising a base member in the form of a solid beam adapted to be positioned transversely under said rails between sleepers, said beam of a length greater than the spacing of said rails, at least two pairs of upstanding eyes in the form of inverted U-shaped straps each having one of its legs secured to the opposite sides of said beam, and each having its bridge portion spaced from the upper face of said beam, the said straps of each pair spaced to receive and position therebetween the foot of said rails, the spacing between each pair of said straps corresponding to the spacing of said rails, and wedge members engaging said straps and bearing against the foot of said rails.

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**2,645,428**
**BOTTLE BREAKING APPARATUS**
**Louis A. Kandle, Philadelphia, Pa., assignor to Penjay Manufacturing Company, Delanco, N. J., a corporation of New Jersey**
**Application February 20, 1952, Serial No. 272,608**
**5 Claims. (Cl. 241—99)**

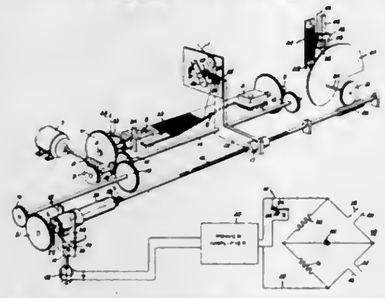
1. A bottle breaking apparatus including a receptacle having an upper open end and a lower open end, a first door for closing said upper end, a second door for closing said lower end, a sleeve communicating with the interior of the receptacle through a side thereof, a plunger movable in said sleeve, a spring carried by said sleeve, and biasing said plunger to an inner position in which it projects into said receptacle, an actuating lever, means for selectively engaging said lever with, and disengaging it from, said plunger, said lever being movable to a first position in which it moves said plunger to an outer position in which said plunger is withdrawn from said receptacle and said spring is compressed, and to a second position in which it is disengaged from said plunger, and a trigger carried by said sleeve and adapted to engage, and retain, said plunger in its outer position against the action of said spring, said trigger being disengageable from said plunger at will to permit said spring to ram said plunger against a bottle



placed in said receptacle, the distance of the lower end of said receptacle to the point at which the sleeve opens into the receptacle being less than the height of a bottle to be broken in said receptacle.

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**2,645,429**
**WINDING MACHINE**
**Benjamin B. Scott, George F. Greene, and Frank E. Valentine, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**
**Application July 7, 1949, Serial No. 103,388**
**9 Claims. (Cl. 242—9)**



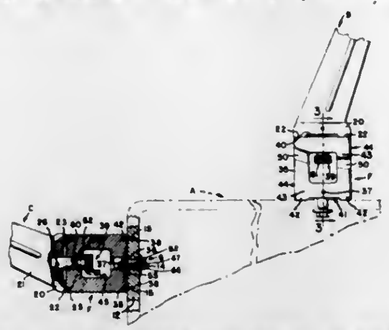
1. A winding machine comprising driving means for turning a support, means for feeding a wire to the support, a driving connection between said feeding means and said driving means including a member normally rotating with said driving means but arranged to be held to provide turn corrective movement of said feeding means, braking means for said member, means for comparing the resistance of the wire wound on the support at predetermined points with a desired resistance at said points, and means responsive to a predetermined difference between said resistances for operating said braking means to hold said member thereby to vary the movement of said feeding means for wire turn adjustment.

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**2,645,430**
**REEL ARM ADAPTER**
**Edward A. Beacom, Vincent N. Sacklyn, and Armand Talamanco, Brooklyn, N. Y.**
**Application July 26, 1951, Serial No. 238,742**
**6 Claims. (Cl. 242—55)**

1. An adaptor for lengthening the distance between the rim of a rotating body, carried by a bracket, and a support for said bracket, said adaptor including a body portion having an outer rim edge-accommodating face, and rim-accommodating means in said face and providing a

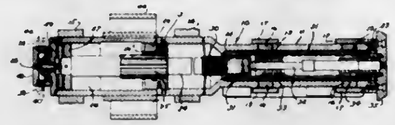




finger hold, said means comprising the walls of a groove in said body portions opening along a portion of said face; means to detachably secure said body portion to a support; and means to detachably secure said body portion to a bracket.

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**2,645,431**
**EXPANSIBLE MANDREL**
**Giuseppe Cozzo, Yonkers, N. Y., assignor to Hydropress, Incorporated, New York, N. Y., a corporation of Delaware**
**Application April 3, 1951, Serial No. 219,021**
**12 Claims. (Cl. 242—72)**

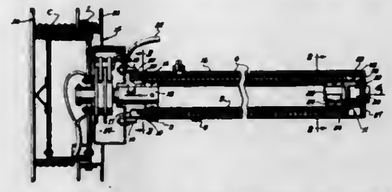


1. In a strip material coil handling apparatus, the combination including rotatable means, inwardly and outwardly movable coil holding means mounted on said rotatable means, coil holding means operating mechanism rotatable relative to said rotatable means and connected thereto for moving said coil holding means inwardly and outwardly, and a single longitudinally movable operating member connected to said operating mechanism and adapted to rotate the same as said operating member is moved longitudinally relative thereto and to said rotatable means, so as to move said coil holding means into and out of coil holding position.

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**2,645,432**
**DETACHABLE SPRING CONNECTING MEANS FOR SPRING DRIVEN REELS**
**Henry V. Griffitts, Los Angeles, Calif., assignor to McCaffrey-Ruddock Tagline Corporation, Los Angeles, Calif., a corporation of California**
**Application May 9, 1949, Serial No. 92,222**
**4 Claims. (Cl. 242—107)**

1. In a spring driven reel device: a support including an elongated tubular member and an inner member extending axially within said tubular member; a winding drum rotatably mounted on said support; a coiled spring; means detachably coupling one end of said spring to said support; means coupling the other end of said spring to said drum including a member secured in driving relation with said drum for detachment from said other end of said spring in a direction outwardly from the other end of said spring and detachable retaining means for said



member mounted on said support for detachment therefrom to permit removal of said spring in said outward direction.

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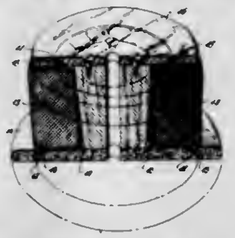
**2,645,433**
**WARP BEAM**
**Carl P. Bergstrom, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application May 4, 1948, Serial No. 24,942**
**3 Claims. (Cl. 242—124)**



2. A warp beam having a barrel, a head on the barrel, a warp engaging flange on the head, an annular hub on the flange coaxial with the barrel, a support fitting in said hub, said support being threaded to the barrel for adjusting the head along the barrel, said flange and support having faces lying approximately in planes perpendicular to the axis of the beam, and means passing through either the flange or the support into the other of said elements for clamping the adjacent faces thereof together.

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**2,645,434**
**APPARATUS FOR PREPARING FRESHLY SPUN CAKES OF RAYON FOR AFTER-TREATMENTS**
**Robert V. De Vault and Ray J. Echerd, Jr., Asheville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware**
**Original application July 27, 1949, Serial No. 107,128. Divided and this application September 12, 1950, Serial No. 184,504**
**3 Claims. (Cl. 242—129)**



3. In combination with a rayon cake for the protection thereof during subsequent treatment and handling, an insert lining the interior of the cake comprising a liquid permeable cloth reinforced at its top and bottom marginal edges with

flexible metallic wires tending to bias the cloth to a flattened shape whereby the insert is expanded over the top and bottom inner edges of the cake, a cake support that coacts with the said insert which comprises a plate for supporting the cake and insert, a cap and a plug member attached thereto conforming to the inside diameter of the cake to cause said member to fit tightly against the insert around the entire area thereof and means locking the insert at at least one point to prevent distortion of the inner convolutions during the latter stages of unwinding.

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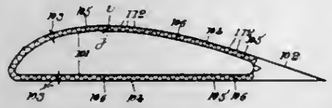
**2,645,435**

**STRUCTURE FOR CONVEYING A FLUID AT HIGH TEMPERATURE**

**Robert Poulit, Lyon, France, assignor to Societe Industrielle Generale de Mecanique Appliquee (S. I. G. M. A.), Villeurbanne, France, a society of France**

**Original application April 9, 1947, Serial No. 740,327. Divided and this application July 26, 1949, Serial No. 106,907**

**2 Claims. (Cl. 244—15)**



1. An aircraft structure which comprises, in combination, a hollow wing having a skin of airfoil cross section, a continuous wall inside said wing substantially parallel to said skin running along most of the wing span to form a continuous central conduit stopping short of the wing tip where said skin forms a hollow chamber, a jet nozzle at the tip of the wing opening from said chamber into the atmosphere, a corrugated partition in the space between said wall and said skin having its corrugations directed spanwise and alternately applied against said skin and said wall to form, between said wall and said skin over the whole periphery of their cross sections, a layer of fluidtight tubular ducts running spanwise and opening into said chamber at the tip of the wing, means for feeding a stream of hot gas to the root end of said central conduit, and means for feeding a stream of relatively cool gas to the root end of at least every second tubular duct.

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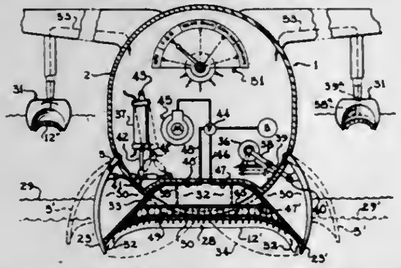
**2,645,436**

**HYDROAERIAL LANDING AND LAUNCHING MEANS, INCLUDING MODUS OPERANDI**

**Owen Brown, Los Angeles, Calif.**

**Application April 27, 1948, Serial No. 23,644**

**21 Claims. (Cl. 244—102)**



1. In a watercraft, the combination including a main hull upper structure and a subsidiary hull understructure, the latter constituting primary flotation means for said craft; said understructure incorporating right and left longitudinal hull sections carried as semi-cantilevers to swing from respective port and starboard sides of the watercraft and mounted for both laterally inward and outward movements from pivotal means carried at respective right and left upper main hull locations, and from which pivotal means the respective hull sections are movable arcuately downwardly and inwardly to their fully retracted positions; a web of flexible material being connected, at one lengthwise portion thereof to the inner sides of the respective hull sections, and, at another lengthwise portion thereof, to said main hull upper structure; said web component, in coaction with said hull sections, forming a substantially water-sealed lower flotation means of great buoyancy along the axial length of said subsidiary understructure.

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**2,645,437**

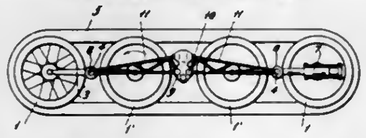
**AIRCRAFT MULTIWHEEL CONTINUOUS TREAD LANDING GEAR**

**Giovanni Bonmartini, Rome, Italy, assignor to "EST"-Etablissement Sciences Techniques, Vaduz, Liechtenstein, a firm**

**Application May 22, 1950, Serial No. 163,452**

**In Italy May 9, 1950**

**11 Claims. (Cl. 244—103)**



1. A landing gear for aircraft having an under carriage supporting a transversely extending axle, said landing gear comprising a main beam pivotally mounted intermediate its ends on said axle, a forward subframe pivotally mounted intermediate its ends on the forward end of the main beam, a rear subframe pivotally mounted intermediate its ends on the rear end of the main beam, wheels having grooved peripheral surfaces mounted at the ends of the subframes, an endless tubular pneumatic tire mounted on the grooved surface of said wheels, and means for maintaining said tire under tension.

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**2,645,438**

**MOUNTING DEVICE FOR ENGINE ACCESSORIES**

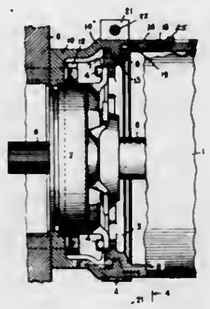
**Irving Kalikow, Swampscott, Mass., assignor to General Electric Company, a corporation of New York**

**Application April 19, 1949, Serial No. 88,447**

**3 Claims. (Cl. 248—2)**

1. A quick disconnect system for mounting an accessory on an engine support pad comprising a pair of members having telescoping cylindrical end portions, each of said end portions terminating in a plurality of equally spaced wedge-shaped arcuate lugs, said lugs on the inner of said end portions projecting radially outwardly and said lugs on the outer of said end portions projecting radially inwardly and being circumferentially spaced to pass between said lugs on said inner end portion upon relatively axial movement therebetween, the outer of said end portions comprising a plurality of arcuate segments defining narrow intervening slots therebetween extending from the end of said outer end portion to a point more remote therefrom than the lugs thereof, an annular shoulder on one of said end portions axially spaced from the lugs thereon and defining therewith a plurality of wedge-shaped arcuate grooves equal in number to the number of lugs on the other of said end portions, said end portions being in an interlocked relationship with said lugs of said other of said end portions positioned in said grooves and being relatively rotatable to a non-interlocked relationship, rotation restraining means to secure





said end portions in an interlocked relationship, and clamping means encircling said segments in radial alignment with said lugs and tensionable to constrict said segments upon said inner end portion to effect a wedging force holding the contacting surfaces of the cooperating lugs and grooves together with substantially greater force than the severe vibrational forces encountered in use tending to separate said contacting surfaces.

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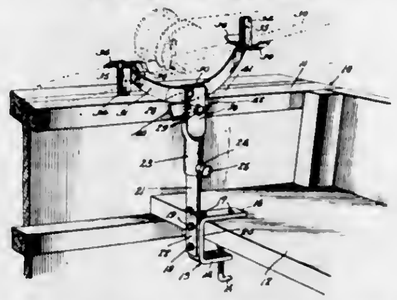
**2,645,439**

**ANGLE CONTROL FOR FISH POLE HOLDERS**

**William M. Gauthier, Brimley, Mich.**

**Application September 28, 1948, Serial No. 51,536**

**8 Claims. (Cl. 248—42)**



2. A fish pole holder comprising a bifurcated stem providing a pair of laterally spaced flexible ears, a pin connecting said ears, a pivot connecting said ears in vertically spaced laterally offset relation to said pin, a yoke including a web pivoted on said pivot between said ears, said yoke including oppositely directed front and rear arms including free ends, a pair of substantially identical pole holders each including a pair of laterally oppositely disposed pole-engaging hooks and bifurcated stems straddling said free ends of said arms, said hooks on said front arm being upwardly directed, and said hooks on said rear arm being downwardly directed, a pole angle control plate between said ears between said web and said pin, said plate being formed with a cam slot slidable and pivotable on said pin, said plate and yoke including slidably abutting straight edges, said plate comprising means maintaining said yoke against pivotal movement, and said plate being operative upon sliding movement on said pin in opposite directions to tiltably adjust said yoke in opposite directions.

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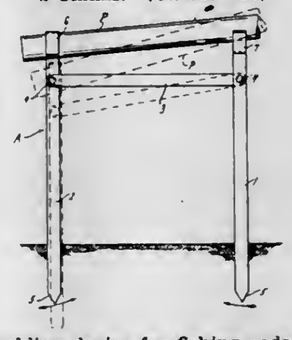
**2,645,440**

**HOLDING DEVICE FOR FISHING RODS AND FISHING POLES**

**John L. Heistand, Overland, Mo.**

**Application April 28, 1950, Serial No. 158,666**

**2 Claims. (Cl. 248—42)**



1. A holding device for fishing rods and poles comprising a pair of elongated members, a bar pivotally connected adjacent to its opposite ends to said elongated members, and means at ends of said elongated members for supporting a fishing rod or fishing pole, the last-mentioned means comprising an upper end portion of one of said elongated members in the form of a crotch in which a portion of a supported fishing rod or fishing pole may rest and an upper end portion of the other of said elongated members in the form of a hook which is adapted to extend over a portion of a supported fishing rod or fishing pole, one of said elongated members being disposed for pivotal movement at one face of said bar and the other of said elongated members being disposed for pivotal movement at the opposite face of said bar.

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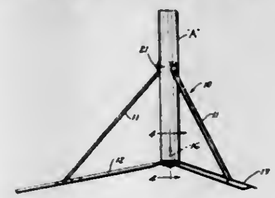
**2,645,441**

**ADJUSTABLE HOLDER**

**Wilbur R. Meredith, South Euclid, Ohio**

**Application September 9, 1948, Serial No. 48,389**

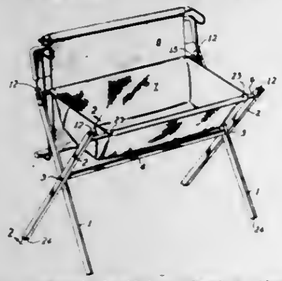
**2 Claims. (Cl. 248—48)**



1. A holder for supporting a Christmas tree or similar article upon a supporting surface comprising a plurality of independent outwardly extending semi-rigid base members adapted to have one end thereof secured to the lower end surface of the article to be supported by the holder, said base members having a plurality of longitudinally spaced apertures adjacent the outer ends thereof, and a semi-rigid brace member associated with each base member having one end adapted to be secured to

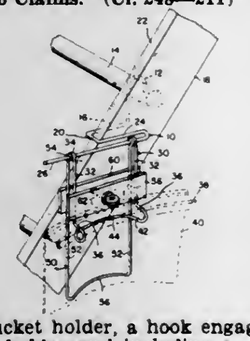
the article at a point spaced from the lower end surface thereof, said brace members adapted to be secured to the article in substantially the same horizontal plane, said brace member having a tongue formed at one end thereof for engagement with an aperture of said base member so that the angle between the base member and the article is greater than ninety degrees and the outer extremity of the base member will be depressed below a horizontal plane through the lower end surface of the article, said base members and brace members being so arranged with respect to the article supported thereby that the free ends of the base members can be adjusted universally to support the article on an irregular supporting surface, and wherein compressive force is exerted between the point of engagement of the brace member with the article and its associated base member to maintain the article in a fixed upright position.

**2,645,442**
**INFANT'S BATHING DEVICE**
**Norman K. Brodine, Rochester, N. Y.**
**Application July 1, 1947, Serial No. 758,411**
**4 Claims. (Cl. 248—164)**



1. In an infant's bathing device, the improvement which comprises two pairs of foldable cross-legs, two longitudinal rails for connecting the cross-legs together at their upper ends, each of said legs being formed of tubular metal which is rectangular in cross-section and having a longitudinal open interior, a gripping member of similar rectangular shape inserted into the upper open interior end of each leg, coincident holes in the gripping member and leg into which an end of a longitudinal rail is inserted, and a top portion for the gripping member which forms a closure for the leg.

**2,645,443**
**PAINT BUCKET HOLDER**
**Eugene Pelletier, Detroit, Mich.**
**Application April 10, 1950, Serial No. 154,920**
**6 Claims. (Cl. 248—211)**



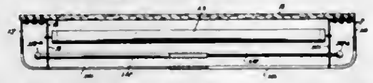
1. In a bucket holder, a hook engageable over a step of a ladder and including a portion extending outside one of the side members of the ladder, a support bar on said portion, and a pair of clamping members pivoted to said support bar, said clamping members comprising an inner member having depending legs each terminating in a hook engageable over the lip of a bucket, and a cross-member at the bottom of said legs curved to fit beneath the bucket lip.

**2,645,444**
**BRACKET**
**Anthony Vanderveld, Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan**
**Application January 31, 1949, Serial No. 73,772**
**3 Claims. (Cl. 248—251)**



1. In a store display device, a bracket having means at one end for attachment to a vertical post and a flat vertical outer extremity, a rod supporting fixture for association with said flat vertical extremity, said fixture including a medially positioned downwardly facing channel, the web of which overlies said flat extremity and the flanges of which embrace the sides of said bracket extremity, said flanges being defined in part by vertical inner edges and outer edges, one of said flanges extending below said flat extremity and including a laterally bendable projection, and elongated fingers projecting laterally from the vertical inner edges of the flanges each of said fingers being adapted for insertion into the end of a rod, said fingers being bendable at their connection with said flanges to permit their association with rods arranged at varying angles.

**2,645,445**
**WINDOW SHADE BRACKET**
**Henry Hein, Pittsburgh, Pa.**
**Application June 3, 1949, Serial No. 96,999**
**1 Claim. (Cl. 248—253)**



A bracket having a base portion for attachment to a window frame, a vertical wing projecting perpendicularly from one vertical edge of the base and provided with openings for supporting one end of a shade roller and an end of a curtain rod, and an arm of shorter length than the wing, projecting from the other vertical edge of the base, at a plane above the horizontal mid plane of the wing, the arm being adapted to telescopically receive a back-turned hollow end of a drape rod and the outer edge of the wing having a ledge at a plane below the arm, for supporting a drape rod when a back-turned end thereof is engaged on the arm and the rod extends across the outer edge of the wing.

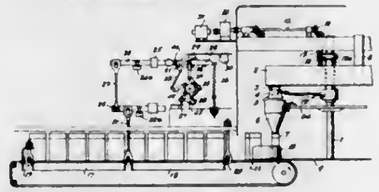
**2,645,446**
**LOCKING HINGE**
**Robert E. Ulrich, Riverton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application August 25, 1949, Serial No. 112,297**
**4 Claims. (Cl. 248—291)**

1. An adjustable microphone structure comprising a support for said microphone, a locking hinge for pivotally mounting and locking said microphone on said support, said hinge comprising a hinge post fastened to said support, a pair of spiral springs each having one end secured to said microphone, said springs extending from said microphone and encircling said hinge post in opposite circumferential directions to normally tightly grip said hinge post and thereby prevent relative rotation between said springs and said hinge post, the opposite ends of each of said springs being freely disposed on the same side of said hinge post and extending therefrom in outwardly diverging relation in such directions that separation thereof in said directions will tend to unwind said springs and loosen them on said hinge post, and a movable spring operating member mounted adjacent to said hinge post and having a portion disposed in operative relation to said diverging springs ends, said portion being adapted, when pressed against said diverging spring ends, to separate them in said diverging directions to thereby loosen said springs on said hinge post and free them for rotation on said hinge post.



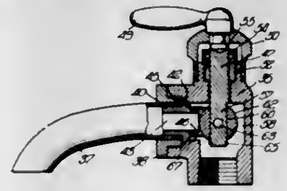


**2,645,447**
**VOLUMETRIC FILLING MACHINE WITH WEIGHT CONTROL**
**Francis Ross Clark, Orange, and John Aponovitch, East North Bergen, N. J., assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware**
**Application September 19, 1947, Serial No. 775,106**
**6 Claims. (Cl. 249—2)**



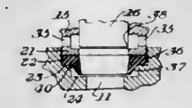
1. A machine for filling packages with pulverulent material, which may vary in apparent density, to obtain filled packages weighing within a narrow range of a predetermined standard, comprising in combination, a volumetric filling device comprising several measuring containers of adjustable volume, means for filling said measuring containers with a full load of said pulverulent material, means for feeding a succession of empty packages in position to receive said full load from successive measuring containers, a continuously moving conveyor for removing filled packages from the filling device along a fixed course, weighing means for determining the combined weight of a predetermined plural number of filled packages while they are moving in said course, said plural number being sufficiently large that a package in said plurality which is underfilled due to imperfect filling of a container with a full load does not substantially affect said combined weight whereby said combined weight is a practically accurate measure of the apparent density of the pulverulent material in said plurality of packages, and motor means controlled by a deviation of the determined weight of said plurality of packages from a predetermined standard weight therefor for adjusting the volume of said measuring containers in a direction to overcome such deviation.

**2,645,448**
**BALANCED VALVE**
**Kenly C. Bugg, Fort Wayne, Ind., assignor to Kendick Manufacturing Company, Inc., Fort Wayne, Ind., a corporation of Indiana**
**Application September 28, 1949, Serial No. 118,426**
**11 Claims. (Cl. 251—16)**



1. In combination a valve comprising a fixed and a rotatable valve member, each of said members having a segmental spherical seat portion, the rotatable member being provided with means whereby it is positively rotatable about an axis eccentric relative to the center of its spherical surface whereby it is moved toward and away from the fixed member and a ring member of less diameter than the diameter of either spherical seat, said ring member being located between the fixed and movable members and having opposite edges adapted to engage the spherical seats of said members and to closely fit against said seats when the rotatable member is rotated to a predetermined position.

**2,645,449**
**FAUCET WITH PRESSURE SEALED EXPANDING WASHER VALVE SEAT**
**David E. Gulick, Kittanning, Pa., assignor to Eljer Co., Ford City, Pa., a corporation of Pennsylvania**
**Application April 28, 1948, Serial No. 23,692**
**3 Claims. (Cl. 251—27)**



1. In a faucet valve, the combination of a body having a passage with inlet and outlet openings, an annular shoulder in said passage, an upwardly extending annular rib adjacent the inner periphery of said shoulder, a resilient washer having its outer perimetral portion seated on and covering said shoulder and engaged by said rib and its inner perimetral portion extending into said passage beyond said shoulder and defining an annular opening, a bushing removably re-

ceived in said body and engaging the outer perimetral portion of the resilient washer to press it on said shoulder and squeezing it against said annular rib to confine the flexibility of the resilient washer to the inner perimetral portion adjacent said opening and to hold the resilient washer in secure and sealed relation on said shoulder, said bushing having lateral annular openings for the passage of fluid from the inlet to the outlet, and a valve having a smooth uninterrupted cylindrical portion larger in diameter than the opening in said resilient washer and movably mounted in said bushing for entering said opening in said resilient washer and expanding the same by flexing the washer in said confined inner perimetral portion to control and stop the flow of fluid through the passage without disturbing the seating of said resilient washer.

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**2,645,450**
**FLUID VALVE MEANS**
**Samuel C. Chessman, Salem, Ohio, assignor to C. B. Hunt & Son, Inc., Salem, Ohio, a corporation of Ohio**
**Application November 26, 1948, Serial No. 62,013**
**7 Claims. (Cl. 251—76)**

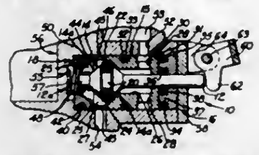


1. A valve assembly for use with any one of a number of valve bodies which have bores similar except for extent and have abutment means defining a fixed position along said bore and have varied number of spaced-apart fluid inlet and outlet openings in predetermined relation with respect to said abutment means, comprising a valve plunger movable axially of said bore, and a plurality of apertured sleeve-like insert members forming an opening through which said valve plunger works, said members being successively insertable from an end of the bore of a selected valve body and of a number to correspond to the inlet and outlet openings of said selected body, adjoining ones of said members being in rigid and direct interabutting engagement and the first inserted member rigidly and directly abutting said abutment means, and sealing means associated with said insert members for sealing against fluid passage along said plunger and the valve body bore, each of said insert members forming a valve chamber in part defined by said bore and partly defined by said plunger, said chambers being cooperable with the respective inlet and outlet openings of said selected valve body, said abutment means and insert members and fluid inlet and outlet openings being correlated so that said number of insert members may be inserted into the bore of said selected valve body to produce a valve of predetermined type.

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**2,645,451**
**VALVE STRUCTURE**
**John N. Gladden, Glendale, Calif.**
**Application August 11, 1947, Serial No. 768,018**
**4 Claims. (Cl. 251—118)**

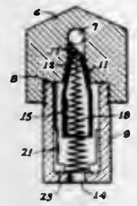
1. A valve construction comprising: a valve body having a bore; a valve comprising a valve head and a valve stem connected with said head; a rigid barrel insertable into said bore in said valve body, said barrel having a valve seat formed thereon at one end and said barrel having a passage therethrough to receive said stem, said barrel also providing a radially extending port; packing means disposed about said stem at one end of said barrel to pack said barrel in said bore and to pack said stem; and cover means directly attachable to said valve body and overlying said barrel and said packing means for said barrel and for said stem to retain said packing means and said barrel in said bore, said



barrel having an end wall opposite from said valve seat, said valve stem extending through said end wall and said cover means, said packing means including a retainer between said end wall and said cover means, packing material held by said retainer adjacent said end wall to engage said valve body when inserted therein, and packing material held by said retainer adjacent said end wall and engaging said valve stem.

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**2,645,452**
**CURB STOP AND DRAIN**
**James H. Lucas and Norris A. Talpey, York, Maine**
**Application October 23, 1947, Serial No. 781,608**
**4 Claims. (Cl. 251—144)**



1. In valve construction, an elongated cylindrical chamber, said chamber being open at its top end and formed with a closing bottom at its opposite end, said bottom being formed with a restricted opening therethrough, an elongated hollow imperforate cylindrical valve member mounted within said chamber, the upper end of said valve member adjacent the top end of said chamber being symmetrically reduced into a closed end to serve as a valve head, radially extending ribs between the inner side wall of said chamber and the cylindrical portion of said valve member, said ribs terminating in spaced relation with respect to said cylindrical portion of said valve member when said valve member is axially aligned within said chamber, to guide said valve member against too great sidewise movement and mount the same in spaced relation with respect to said inner side wall of said chamber, and inwardly extending separated spacer elements between the bottom end of said valve member and the inner surface of the bottom of said chamber for maintaining said valve member in spaced relation with respect thereto.

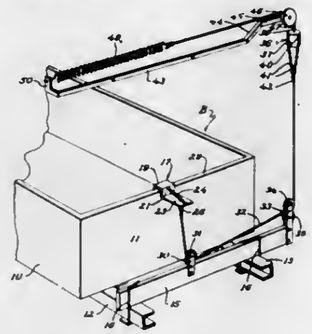
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**2,645,453**
**POST DRIVING APPARATUS**
**Alfred H. Nelson, Grove City, Minn.**
**Application May 13, 1949, Serial No. 92,971**
**2 Claims. (Cl. 254—29)**

1. A fence driving apparatus for use in conjunction with a truck having a dump body, the



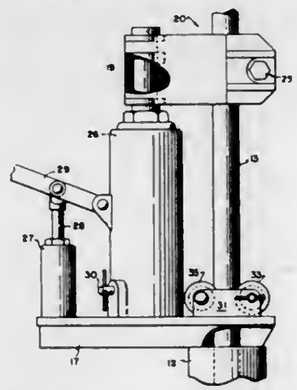
apparatus including a frame member extending laterally from the truck adjacent to the raisable end of the truck body, a bracket engageable with the upper edge of the body and including a forwardly extending portion, flexible means connected to the extending portion of said bracket and extending downwardly to



said frame member, a pair of spaced pulleys on said frame member, one of said pulleys being at the outer end of the frame member, said flexible means operatively engaging with said pulleys, and means on the other end of said flexible means designed for engaging with the top of a post.

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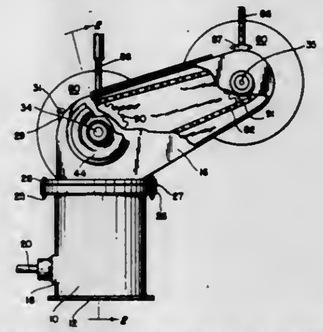
**2,645,454**
**AUXILIARY JACK FOR OIL WELLS**
**Ira Cuppy Nourse, Mineral Wells, Tex., assignor of one-half to Shirley Johnson, Mineral Wells, Tex.**
**Application October 7, 1949, Serial No. 120,060**
**3 Claims. (Cl. 254—30)**



1. An auxiliary jack assembly for lifting a polish rod extending upwardly above the upper end of a well tubing, said assembly comprising a table supported by the upper end of said tubing and laterally extending to one side thereof, a jack including an extensible lift mounted on said table and having said lift arranged parallel with said polish rod, a pair of jaws hingedly secured to said lift for arcuate movement perpendicular to length thereof and arranged for movement in the direction of the axis of said polish rod responsive to like movement of said lift, and means detachably securing said jaws on said polish rod.

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**2,645,455**
**REMOVABLE DRUM FISHING WINCH**
**Fred W. Rowe, Seattle, Wash.**
**Application April 3, 1950, Serial No. 153,646**
**6 Claims. (Cl. 254—137)**



4. A fishing winch, comprising: a pedestal base adapted to be secured to a supporting surface; a power head mounted upon said base and disposed for revolution about a vertical axis on said base; said power head and pedestal base having coacting stop means for selective directional positioning of said power head on said base; a vertical drive shaft journaled in said base; a plurality of horizontal driven shafts journaled in said power head, said driven shafts being spaced from and parallel to each other; drive means connecting said driven shafts to said drive shaft; a hub positioned on an end of each driven shaft, each hub having its exterior bearing surface formed with an inner cylindrical bearing surface and an outer cylindrical bearing surface of smaller diameter than said inner bearing surface; manually adjustable clutching and braking means between said hubs and said driven shafts; and a spool removably positioned on each of said hubs, each spool having its interior bearing surface formed with two cylindrical bearing surfaces of different diameters to match the bearing surfaces of said hubs.

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**2,645,456**
**WEDGE-LEVEL REAMER**
**Vaughan Thompson, Flin Flon, Manitoba, Canada**
**Application November 28, 1950, Serial No. 197,900**
**3 Claims. (Cl. 255—1.6)**

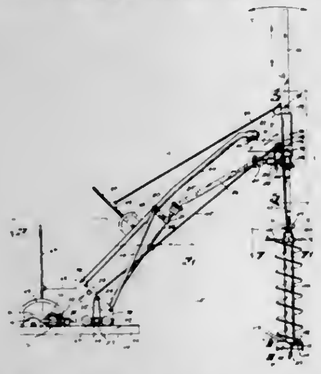


1. In the mining operation of wedging-off a branch hole at wedge-level, and for use with a

set of drill-rod sections, a drilling and reaming assembly for the purpose specified, comprising in combination a leading-section, a leading-end drill-bit attached thereto, a flexible joint connected to the trailing end of said leading-section, a lead reaming-bar connected to said flexible joint, a leading-end section centering component adjacently connected between said lead reaming-bar and said leading section, a primary reaming bit secured adjacent to said lead reaming-bar trailing-end, a trail reaming-bar connected to said lead reaming-bar, a ferrule between said lead and trail reaming bars, and a secondary reaming bit secured adjacent to the trailing end of said trail reaming-bar.

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**2,645,457**
**HOLE DIGGER**
**John W. Houston, Grinnell, Iowa**
**Application July 3, 1950, Serial No. 171,911**
**3 Claims. (Cl. 255—19)**

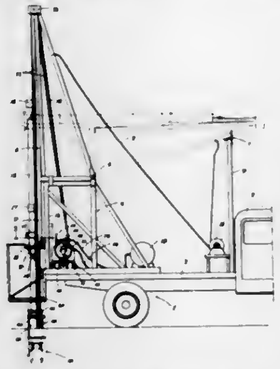


1. An improvement in a hole digging apparatus designed to be mounted on a prime mover and having an upwardly and outwardly extending boom that supports an earth auger the improvement comprising; a head frame hingedly mounted on the outer end of said boom to swing in a vertical plane parallel to the longitudinal axis of said prime mover, a bearing support hingedly mounted in said frame to swing in a vertical plane at right angles to the plane in which said head frame swings, a shaft journaled in said bearing support on a substantially horizontal axis, a beveled gear secured to said shaft, a second beveled gear meshing with said beveled gear and journaled in said bearing support on a substantially vertical axis; said second beveled gear having a square bore in it, a bearing in said bearing support vertically spaced apart from said second beveled gear; said bearing having a square bore through its center, a square shaft vertically slidably mounted in the bores of said second bevel gear and said bearing, a means for raising and lowering said square shaft; said earth auger being secured to and depending from the lower end of said square shaft, and a means for connecting said first mentioned shaft to a power source on said prime mover.

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**2,645,458**
**HOLE BORING RIG**
**Merrill Yost, Sacramento, Calif.**
**Application July 29, 1950, Serial No. 176,748**
**5 Claims. (Cl. 255—19)**

1. A hole boring rig comprising a mast, a digging column disposed adjacent the mast for vertical reciprocating motion, guide collars on the mast in vertically spaced relation, the column running through said collars, a power actuated cable suspending the column from the mast for



reciprocating motion, a digging head on the lower end of the column, and a downwardly flaring bell fixed on the mast below the lowermost collar to guide the column for re-entry into said lowermost collar from a position below the same.

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**2,645,459**
**HYDRAULIC JAR**
**Wayne N. Sutliff, Bakersfield, Calif.**
**Application August 6, 1951, Serial No. 240,487**
**4 Claims. (Cl. 255—27)**



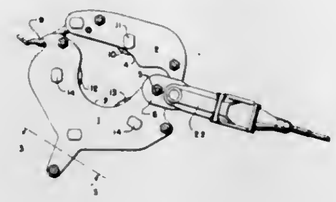
1. A hydraulic well jar, comprising a hollow fluid-tight housing adapted to be secured to a fish lodged in a well and providing a hydraulic fluid chamber defined in part by a large bore portion and a small bore portion, an anvil within the large bore portion of the housing, a mandrel adapted to be reciprocated by a drill string or wire line and slidably received within the housing and carrying a hammer adapted to be brought into violent contact with the anvil, an annular valve on the mandrel dimensioned to slidably fit within the small bore and over the mandrel and being operable to retard movement of the hammer toward the anvil when the valve is disposed within the small bore portion of the housing to cause tensioning of the drill string or equivalent



structure and to suddenly release the hammer when moved to a position within the large bore portion of the housing to allow the hammer to violently strike the anvil, said mandrel having a valve seat formed thereon facing axially toward the anvil and fluid passageways formed on the outer surface of said mandrel inwardly of the valve for bypassing the valve when the valve is unseated, said passageways extending from a point beyond the valve seat toward the hammer and beyond the valve and being closed by the valve against fluid passage past the valve seat when said valve is closed, spring means urging the valve toward its seat to seal off the passageways, and a floating compensating annular piston slidably received by the chamber and slidably receiving the mandrel, exposed on one side to the pressure of the hydraulic fluid in the chamber and on its opposite side to the pressure of the well fluid, operable, when the well jar is lowered into a well and the piston is subjected to the well fluid pressure, to eliminate existing voids in the hydraulic fluid chamber and prevent the formation of new voids, causable by leakage of hydraulic fluid from the chamber, by shifting under the influence of a differential pressure created by the voids or leaking fluid to reduce the volume of the hydraulic fluid chamber to an extent where the volume of the hydraulic fluid chamber is equal to the volume of the fluid therewithin.

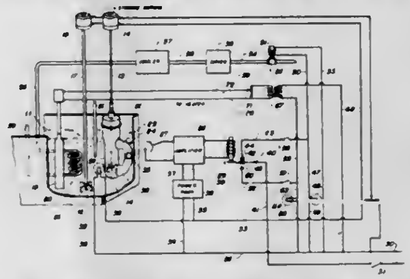
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**2,645,460**
**PIPE SPINNING TONG**
**Chester A. Lundeen, Los Angeles, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware**
**Application October 7, 1946, Serial No. 701,786**
**7 Claims. (Cl. 255—35)**



1. A pipe spinning tong comprising: complementary tong arms adapted to encircle a stand of pipe; wheels carried by said tong arms and engageable with said stand of pipe, at least one of said wheels being a drive wheel; latch means at one extremity of said tong arms joining said arms; toggle means at the other extremity of said tong arms, said toggle means including a lever extending radially outwardly with respect to said stand of pipe, said lever pivotally supporting one of said arms about a first axis spaced radially outwardly from said stand of pipe and said lever pivotally supporting the other of said arms about a second axis spaced radially outwardly from said first axis; a first rotatable element rotatably mounted on said lever at said first axis and being operatively connected to said drive wheel; and a second rotatable element rotatably mounted on said lever at said second axis, said second rotatable element being power driven and being operatively connected to said first rotatable element whereby to drive said drive wheel, said first and second rotatable elements cooperating to pivot said lever to constrict said tong arms about said stand of pipe.

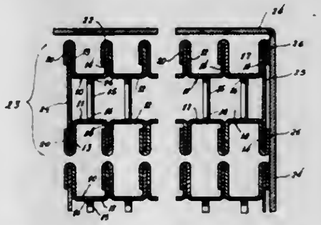
**2,645,461**
**THERMOREGULATOR**
**Clayton W. Brown, Woodbury, N. J., and Paul V. Keyser, Jr., Douglaston, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**Application August 26, 1948, Serial No. 46,222**
**7 Claims. (Cl. 257—4)**



1. An apparatus for controlling the temperature of a confined medium that comprises in combination a container adapted to be at least in part exposed to said medium, an organic solution in said container having a cloudpoint temperature which is equal to that to which the confined medium is to be controlled, at least a portion of said container being capable of transmitting light, means for projecting light on that portion of the container, means for detecting light transmitted by the container and critical organic solution therein, heat exchange means for altering the temperature of the medium whose temperature it is desired to control, means for energizing the heat exchange means to vary the temperature of the confined medium in the direction of the cloudpoint temperature of the critical organic solution, and means responsive to the light detector for selectively controlling the energizing means to maintain the temperature of the confined medium at that temperature.

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**2,645,462**
**PLATE TYPE HEAT EXCHANGER**
**Sven Holm, Wellsville, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.**
**Application February 18, 1950, Serial No. 144,927**
**4 Claims. (Cl. 257—245)**



1. A heat exchange envelope made up of a plurality of similar components each consisting of a pair of channel members mounted in opposed relation with their side flanges extending outwardly with relation to the intervening base portions between which are mounted metallic wires bent to sinusoidal form to provide a plurality of U-shaped loops therein with the leg portions extending in upright relation between said channel bases as fins and with the intervening yoke portions that are contiguous along the axis of each wire in contact with and bonded

to the base portion of one or the other of said channels with lip portions on one flange of each channel formed in re-entrant fashion parallel to the outer face of said one flange to provide a groove for receiving the opposite flange element of the corresponding channel of the adjacent component for interlocking adjacent components so that the bases of their channels align to form continuous surfaces constituting the walls of a passage in which said fins are located.

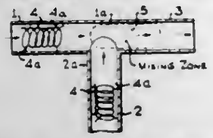
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**2,645,463**

## METHOD AND APPARATUS FOR CONTINUOUS FLOW MIXING

**Reid F. Stearns, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**

**Application February 11, 1949, Serial No. 75,840**
**7 Claims. (Cl. 259—4)**



1. A method of continuous flow mixing, comprising passing each stream of a plurality of fluid streams to be mixed through a confined flow path for said stream, inducing turbulence in each of said streams during passage through said confined flow path therefor, producing a plurality of individual turbulent flow streams, and immediately thereafter combining said turbulent flow streams in a common, confined flow path as a single turbulent stream of fluid.

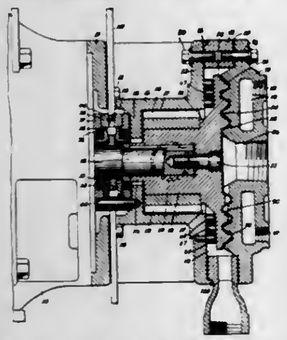
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**2,645,464**

## DISPERSING APPARATUS

**Duncan Davidson Forbes, Knoxville, Tenn., assignor to Micromax, Inc., New York, N. Y., a corporation of New York**

**Application November 1, 1950, Serial No. 193,392**
**5 Claims. (Cl. 259—9)**



1. Dispersing apparatus which comprises, in combination, a chamber, inlet means in said chamber for the materials to be treated, an outwardly extending flange at one end of said chamber, a rotor in said chamber having a flange portion parallel to said flange and spaced therefrom to define an annular channel therebetween, a plurality of spaced helical blades extending radially from said rotor in said chamber, said blades being pitched to propel materials introduced into said chamber in an annular stream toward said channel, a plurality of spaced studs projecting axially from the stator flange into proximity to the rotor flange and a plurality of spaced studs projecting axially from the rotor flange into close proximity to said stator flange, said studs being so disposed that the studs on the rotor flange pass close to the studs of the stator flange as the rotor rotates, plate means parallel to and spaced from said flange in fluid-tight relationship whereby to enclose said rotor, concentric ridges on the inner wall of said plate means and concentric ridges on the outer face of said rotor flange arranged to complement said first-named ridges and to form therewith an undulant path for the materials flowing from said channel, and outlet means in said plate means.

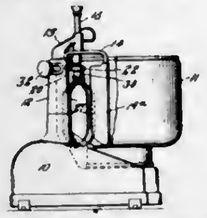
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**2,645,465**

## KITCHEN MIXING MACHINE

**Johan Fredrik Robert Karlstrom, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden**

**Application March 26, 1951, Serial No. 217,537**
**In Sweden November 22, 1947**
**11 Claims. (Cl. 259—85)**



1. In combination with a food mixing machine or like device having a stand and an open top vessel which is adapted to be mounted for rotation on the stand about a vertical axis, such machine having provisions for driving the vessel, of a rotatable kitchen tool, a holder for said tool, structure for rotatably supporting said tool within the vessel including a pin carried by the stand which is substantially parallel to the axis about which the vessel rotates and upon which said holder is rotatably mounted, a driven member fixed to and rotatable with said tool, mechanism for operating said kitchen tool comprising a rotatable element to which rotating movement is imparted only from the vessel and from which rotating movement is transmitted to said driven member, means for supporting said driven member and rotatable element on said holder, and means including a part fixed to said holder and cooperating with the stand which prevents any tendency of said holder to turn on said pin in the direction of rotation of said vessel.

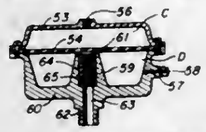
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**2,645,466**

## CARBURETOR FUEL SYSTEM, INCLUDING DIAPHRAGM VALVES

**Sam P. Jones, Dallas, Tex., assignor to J & S Carburetor Co., Dallas, Tex., a corporation of Texas**

**Application December 15, 1950, Serial No. 200,971**
**2 Claims. (Cl. 261—69)**



1. In an internal combustion engine fuel supply system of the class wherein a fuel and air



mixture is drawn into the engine intake manifold through an engine intake stack having a throttle valve therein, the combination with the intake stack of a metering valve having a housing, means placing the housing in communication with a source of a fuel supplement, a conductor leading from the intake stack between the throttle valve and the intake manifold into the housing and having an opening in the housing, a valve seat surrounding the opening, a flexible disk-like valve closure having one side closing one side of the housing and engaging the valve seat, and means biasing the valve closure away from the valve seat.

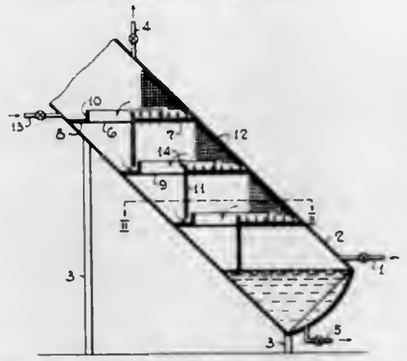
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**2,645,467**

## LEANING BUBBLE TOWER

**Walter H. Rupp, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**

**Application January 25, 1951, Serial No. 207,672**
**4 Claims. (Cl. 261—114)**



1. A fractionating tower structure comprising an inclined tower shell, a series of plate members mounted horizontally within said shell and longitudinally thereof in superposed vertically spaced relation one to another, each plate consisting essentially of an imperforate end section, an opposed perforate end section, and peripherally opposed narrow web side sections connecting said end sections, the inner edges of said several sections defining an intermediate enlarged passageway through said plate, a dam wall substantially enclosing said passageway including end and side wall portions substantially coextensive with the inner edges of said imperforate and opposed web plate sections, a downcomer element carried by said plate substantially coextensive with the inner edge of said perforate plate section including a dependent baffle extending laterally from wall to wall of said tower below the plate and downward therefrom into vertically spaced relation to the imperforate section of the plate next below, and beyond the upper edge of the dam wall thereof, and a vertical weir extending laterally between dam side wall portions of said plate and vertically upward to a level below the upper edge of said portions.

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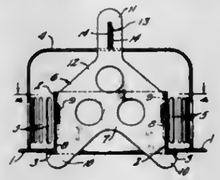
**2,645,468**

## BUBBLE CAP ASSEMBLY

**Philip J. Sullivan, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts**

**Application January 4, 1952, Serial No. 264,865**
**2 Claims. (Cl. 261—114)**

1. A bubble cap assembly, comprising in combination with a floor plate having an opening therethrough, a chimney connected with said opening and upstanding from the tray, a cap supported from the tray with its periphery encompassing the periphery of the chimney in radially-spaced coaxial relation and its top wall overlying the upper end of the chimney and having a centrally-located slot extending therethrough, a flat plate of thin sheet metal having a portion with parallel side edges extending uprightly through the chimney from the bottom to the top thereof, said side edges frictionally engaging the interior peripheral wall thereof at opposite locations thereon, shoulders on said wall of the chimney on opposite sides of said portion and adjacent each



side edge thereof for maintaining the portion in upright relation with the chimney, ears on the lower end of said portion of the flat plate projecting beyond the opening in the floor plate and engaged beneath the floor plate, said flat plate having a projection from the upper end of said portion extending upwardly and terminating with an ear which extends through the slot in the top wall of said cap and projects above the same, the last-named ear having a vertical slot through the portion which projects above the cap, and a wedge extending through the last-named slot and bearing on the top wall of said cap for clamping the cap, chimney and flat plate to the floor plate.

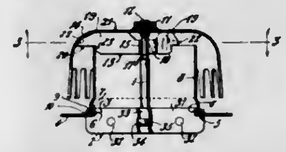
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**2,645,469**

## BUBBLE CAP FASTENING MEANS

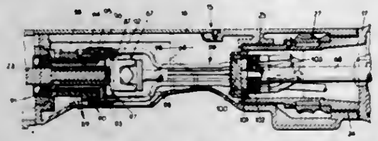
**George W. Plossl, West Springfield, and William E. Leety, Longmeadow, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts**

**Application July 19, 1952, Serial No. 299,792**
**4 Claims. (Cl. 261—114)**



1. In a bubble cap assembly, of the type wherein the cap, chimney and interposed spacers are clamped together and to the floor of a bubble tray by a bolt, which has a cross bar fixed to its lower end for spanning the lower end of the chimney and engaging the lower face of the floor and which has a nut on its screw-threaded upper end that extends through the cap, the improvement which consists in providing on the bolt below the cap a shoulder and a member having a plurality of arms of thin flat sheet metal radiating from a central U-shaped portion which affords a laterally-extending slot open at one end, said arms near their outer ends being mounted on edge on the upper end of said chimney said slot receiving a portion of the bolt below said shoulder and having walls on opposite sides thereof underlying said shoulder.

**2,645,470**
**KERF CUTTERHEAD MECHANISM FOR MINING MACHINES**
**Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**
**Application April 21, 1948, Serial No. 22,268**
**21 Claims. (Cl. 262—28)**



19. A machine of the class described including a frame having forward and rearward portions relatively adjustable about an axis, a motor carried by said forward portion, conductor means for supplying power to said motor and extending from said rearward portion to said forward portion, said conductor means including a rotatable member, a plurality of elongated conductors each connected at one end to said rotatable member and connected at the other end to one of said relatively adjustable frame portions, said conductors including a plurality of elongated members extending in a direction generally parallel to said axis, and means extending between said rotatable member and said one relatively adjustable frame portion, extending generally parallel with said axis, and operative to insure their movement together.

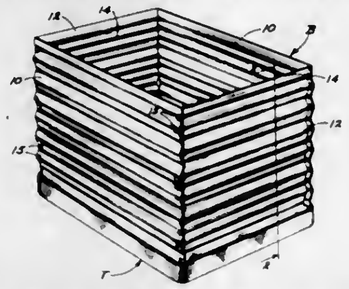
**2,645,471**
**CUTTER BIT**
**John David King, Clairton, Pa.**
**Application December 6, 1947, Serial No. 790,055**
**4 Claims. (Cl. 262—33)**



1. A cutter bit comprising the combination of a supporting, steel shank and a cutting portion having a hard cutting edge consisting of a layer of an abrasive-resistant self-hardening forgeable steel alloy that is intimately fused upon a shank edge formed by the intersection of two faces of the shank which alloy layer extends along two sides from the shank edge.

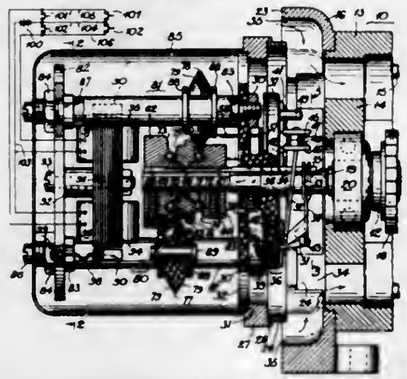
**2,645,472**
**FABRICATED METAL CONTAINER**
**Paul S. Menough, Rocky River, Ohio**
**Application December 30, 1950, Serial No. 203,625**
**11 Claims. (Cl. 263—49)**

1. A fabricated metal box-like container for use with an annealing tray to surround and maintain in position a load carried by the tray comprising a pair of metal sheets spaced apart and constituting opposed walls of the container, a second pair of opposed spaced metal sheets disposed between the first pair and cooperating therewith to define a four-sided open-ended vessel, said sheets being movable within predetermined limits relative to each other, and means comprising a plurality of tie members extending between and connecting said first pair of metal sheets for maintaining all the metal sheets in position relative to each other within said predetermined limits, some of said tie members being disposed inside the container and the other tie members being disposed outside thereof,



and said second pair of sheets each being disposed between tie members in the container and tie members outside said container.

**2,645,473**
**GOVERNOR SPEED ADJUSTING APPARATUS**
**Royal Lee, Elm Grove, Wis., assignor to Lee Engineering Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application August 30, 1951, Serial No. 244,318**
**11 Claims. (Cl. 264—3)**

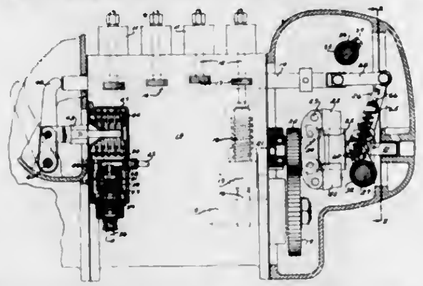


8. The combination of an electric motor having a rotatable shaft, an adjustable motor speed governor driven by said shaft, speed adjusting means for said governor including a reciprocable actuator rotatable with and shiftable axially of said shaft, and operating means for said actuator including selectively operable trains of control gearing driven by said shaft for selectively shifting said actuator in opposite directions, said gearing including a driven wheel coaxially carried by said shaft and having a screw-threaded engagement with said axially shiftable actuator.

**2,645,474**
**SAFETY CONTROL FOR ENGINE GOVERNORS**
**Randolph C. Barnes, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California**
**Application October 13, 1947, Serial No. 779,565**
**3 Claims. (Cl. 264—3)**

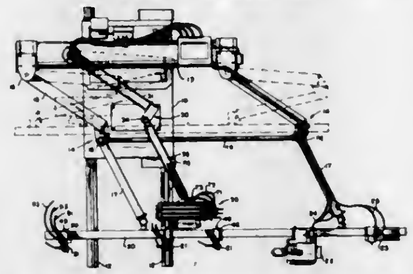
3. In an engine fuel feed mechanism which includes a governor, linkage between the governor and said mechanism, and a safety shut down device including a normally loaded spring releasable to urge the fuel feed to shut down position in the event of unusual operating conditions, a resilient connection in the linkage comprising a lever having a pivoted joint intermediate its ends, and resilient means spanning and spaced from the pivoted joint, normally holding the lever in an unbroken relationship and offering resist-





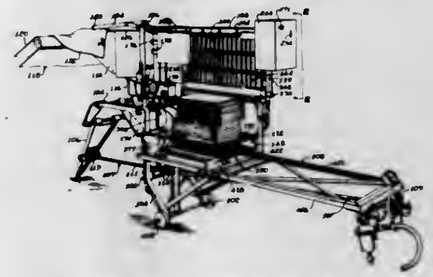
ing moment to breaking at said joint under influence of the normally loaded spring in the shut down device, which resisting moment decreases under continued influence of the normally loaded spring as the resilient means approaches over-center position with relation to the pivotal joint of the lever.

**2,645,475**
**UNIVERSAL GAS CUTTING AND WELDING APPARATUS**
**Van Buskirk Garrison, Caldwell, N. J., assignor to Air Reduction Company, Incorporated, Murray Hill, N. J., a corporation of New York**
**Application January 9, 1951, Serial No. 205,137**
**4 Claims. (Cl. 266—23)**



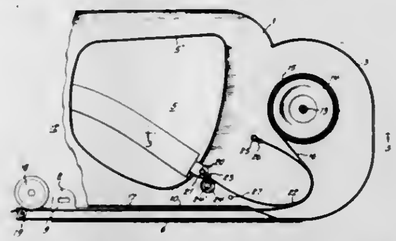
1. A universal gas cutting and welding machine comprising a torch bar for supporting a torch, means supporting the torch bar for substantially universal movement in a plane, gas manifolding means adjacent the torch bar, a first group of hoses supported independently of the torch and the torch bar for supplying gas from a source to the manifolding means, a second group of hoses for delivering gas from the manifolding means to the torch, a movable supporting structure for supporting said manifolding means independently of said torch bar and said torch bar supporting means, said movable supporting structure additionally supporting said manifolding means for universal movement substantially identical to the universal movement of the torch bar, said manifolding means being pivotally supported by said movable supporting structure, and means interconnecting said torch bar and said manifolding means to convey solely horizontal forces from said torch bar to said manifolding means when said torch bar is moved, said interconnecting means comprising a member on the torch bar and a member on the manifolding means, said members having two spaced points of contact whereby movement of the torch bar results in similar non-relative movement of the manifolding means.

**2,645,476**
**FOLDING AND STACKING MACHINE**
**Vollmer V. Wood, Los Angeles, and Emile B. Bigué, Beverly Hills, Calif., assignors to Pioneer Development Co., Los Angeles, Calif., a corporation of California**
**Application October 1, 1948, Serial No. 52,392**
**11 Claims. (Cl. 270—80)**



1. In a folding and stacking machine wherein laundry pieces are delivered in a vertical plane from transverse folding means: releasable clamping means adjacent said transverse folding means adapted to freely suspend said laundry pieces and convey said pieces from said transverse folding means, said means including cooperating moving belts between which the upper edges of said laundry pieces are grasped, said belts being transversely movable to adjacent position for grasping said laundry pieces and to separated position to release said laundry pieces; a stacking platform adjacent said clamping means; a pivotable stacker member adapted upon release of said laundry pieces to carry said pieces to said stacking platform; and a cam and follower on said stacker member and clamping means whereby pivoting of said stacker member transversely moves said belts to separated position to release said laundry pieces from said clamping means..

**2,645,477**
**TAPE RELEASE FOR TAPE APPLICATORS**
**Irving Kaplan, Jamaica, N. Y.**
**Application February 20, 1951, Serial No. 211,831**
**7 Claims. (Cl. 271—2.2)**

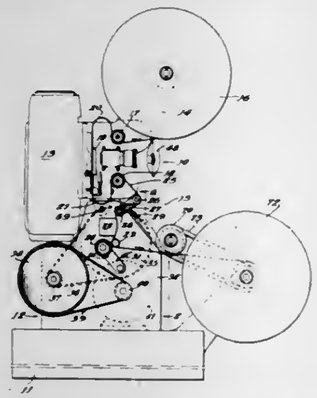


1. Tape release for tape applicator comprising a base, a movable handle mounted thereon, a flat spring having one end attached to said handle, a pin on said base, the other end of said spring being attached to said pin, a stub shaft mounted on said base for holding a roll of adhesive tape, said roll being rotatably

mounted on said shaft, a feed roll for firmly holding and alternately advancing said tape spaced from said roll past said spring, said spring being bowed in the direction of the tape fed from said roll, said handle being movable in one direction to shift said bowed spring into the path of said tape adjacent to said roll to draw a portion of said tape from said tape roll while the gripping action of said feed roll is adapted for holding the free end of said tape against the action of said spring, whereby a predetermined length of tape is unrolled from said roll, the movement of said handle in the opposite direction adapted to move said spring out of said path to release said tape and permit it to be fed freely.

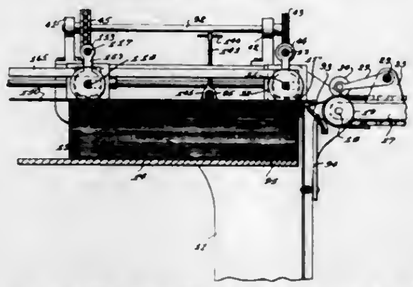
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**2,645,478**
**FILM DRIVING MEANS IN SOUND PROJECTORS**
**Robert L. Moore and Sheldon Lee Pastor, Chicago, Ill., assignors to Revere Camera Company, Chicago, Ill., a corporation of Delaware**
**Application October 15, 1948, Serial No. 54,704**
**2 Claims. (Cl. 271—2.3)**



1. In sound apparatus in the form of an attachment adapted for use with an optical projector having a sprocket for advancing a film and means for driving said sprocket, said sound apparatus including a sound head and means providing a path for said film across said sound head, the combination of film driving means for advancing said film across said sound head at a substantially constant speed, means adapted to provide a film loop between said sprocket and said film driving means, displaceable means engaging said film loop, the position of which is controlled by the size of said film loop, and speed control means actuated by said displaceable means for regulating the speed of said sprocket driving means, said sound apparatus being in the form of a structurally independent base member, a take-up reel mounted on said base member and adapted to be driven from said optical projector, said constant speed film driving means being disposed between said sound head and said take-up reel, and said take-up reel being adapted to be driven from said projector so as to tension said film around said film driving means to increase its frictional engagement therewith, said film driving means being provided with a smooth surface free from sprockets, and supporting means mounted on said base member on which an optical projector can be mounted.

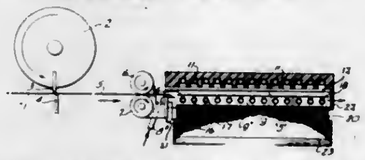
**2,645,479**
**MULTIPLE SHEET FEEDER**
**William E. Mitchell, Peoria, Ill.**
**Application August 25, 1950, Serial No. 181,395**
**3 Claims. (Cl. 271—27)**



1. In a sheet feeding machine having a main frame, a vertically movable table carried by said main frame for supporting a stack of sheets from which sheets are successively fed, a conveyor carried by said main frame at one end of said table and in position to receive sheets fed from a stack supported by said table, a power driven shaft supported by said main frame above said one end of the table, a vacuum wheel mounted on said shaft in position to engage the uppermost sheet of a table supported stack, a vacuum pump, means including a vacuum controlling valve connecting said vacuum pump to said vacuum wheel, and a power driven cam operating said valve to apply vacuum to said vacuum wheel at successive intervals of a duration to provide a predetermined spacing between successive single sheets moved by said vacuum wheel from a table supported stack to said conveyor, multiple sheet feeding means for the sheet feeding machine comprising a second power driven shaft substantially parallel to the first mentioned shaft and spaced from the latter toward the other end of said table, a second vacuum wheel mounted on said second shaft in position to engage at the location of said second vacuum wheel the uppermost sheets on a table supported stack, means connecting said second vacuum wheel to said means connecting the first mentioned vacuum wheel to said vacuum pump, means drivingly interconnecting said first and second shafts for rotation in the same direction and at substantially the same speed, and means supporting said second shaft for movements of adjustment toward and away from the first mentioned shaft.

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**2,645,480**
**SHEET DELIVERY SYSTEM FOR PRESSES**
**Henry R. Long, Linden, N. J.**
**Application May 22, 1952, Serial No. 289,295**
**10 Claims. (Cl. 271—74)**

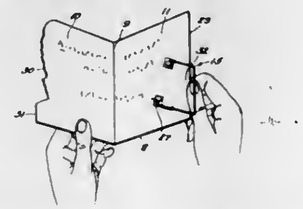


4. A delivery system for rapid stacking of light sheets injected in sequence into a delivery zone having a forward end, a rear end, and sides, comprising a series of air pressure distribution means disposed above the sheets for distributing pulses of air pressure across each injected sheet in rapid succession in the direction of delivery, a series of suction means at the sides of said zone immediately under said injected sheet for drawing vacuum in rapid succession in the direction of delivery and simultaneously with the pressure distribution on top of the sheet, intermittent air pressure and cut-off means for rapidly feeding air pressure and cutting it off in succession in said series of air pressure distribution means, and intermittent suction application and cut-off means for rapidly applying vacuum and cutting it off in succession in said series of vacuum application means.



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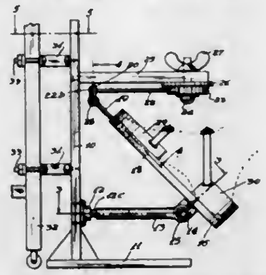
**2,645,481**
**NOVELTY GREETING CARD**
**Alvin Barker, Cincinnati, Ohio**
**Application February 28, 1949, Serial No. 78,737**
**5 Claims. (Cl. 272—27)**



1. A greeting card comprising a pair of stiff sections hinged along adjacent sides and normally disposed in proximate, face-to-face positions, a thumb positioning cutout formed in the free edge of one section to expose a marginal portion of the free edge portion of the remaining section, and a spring pressed, thumb striking member pivotally mounted on an intermediate portion of the interior face of said section for oscillatory movement between a sprung position with its free end overlapping the exposed portion, and an opposed spring loaded position with its free end adjacent the hinge and caught between adjacent faces of the sections.

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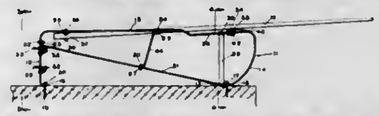
**2,645,482**
**FOOT ACTUATED EXERCISING DEVICE**
**Herbert N. Magida, Chicago, Ill.**
**Application May 19, 1952, Serial No. 288,714**
**10 Claims. (Cl. 272—57)**



1. In a foot actuated exercising device, a standard, a bearing rod extending from said standard, a tubular member rotatably and slidably mounted upon said bearing rod, a foot actuated member pivoted to the outer end of said tubular member, an arm extending from said standard above said bearing rod, a disk rotatably mounted upon said arm, a friction pad bearing against said disk, a radius rod extending from said disk, a connector slidably mounted upon said radius rod, a reciprocable rod mounted upon said foot actuated member and a pivotal connection between said reciprocable rod and said connector.

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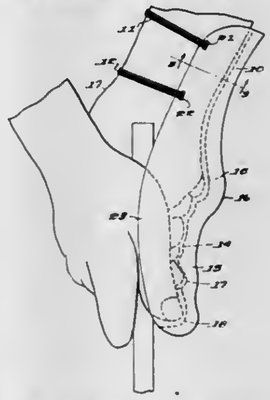
**2,645,483**
**SPRINGBOARD CONSTRUCTION**
**Samuel Roy Smith, Portland, Oreg.**
**Application March 10, 1952, Serial No. 275,815**
**7 Claims. (Cl. 272—66)**



1. A springboard support comprising a pair of upright side frames maintained in parallel, spaced relation to each other, cross-brace means at the front and rear ends of said side frames, said means being connected to said frames to maintain said frames in upright, parallel relation to each other in sufficiently spaced relation to permit the interposition of a springboard between the upper portions thereof, each of said frames comprising a first spring bar including a rear leg portion, an intermediate, elongated, substantially horizontal portion, and a forwardly bowed, dependent front portion, a second spring bar connected to a lower part of said front portion and to an upper part of said leg portion at its respective ends, a tie member connected to an intermediate part of said horizontal portion and to an intermediate part of said second spring bar at its respective ends, and a rigid front leg vertically spanning said bowed portion, an anchor bar spanning the space between the rear ends of said horizontal portions and connected to said horizontal portions at its respective ends, means to connect the rear end of a springboard at said anchor bar, and a fulcrum bar spanning the space between the front ends of said horizontal portions and connected to said horizontal portions at its respective ends.

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**2,645,484**
**NONHOOK NONSLICE GRIP FINDER FOR GOLF CLUBS**
**James Rikuo Hara, Honolulu, Territory of Hawaii**
**Application May 16, 1950, Serial No. 162,284**
**3 Claims. (Cl. 273—35)**



1. A grip finder for hands gripping a golf club handle comprising an elongated rigid body member, U-shape in cross section and having cavities

therein positioned to receive parts of the hands and fingers of both hands and part of the thumb of one hand with the hands in the correct position for gripping a golf club handle, and means positioned to extend around the wrist of one hand for temporarily mounting the body member on one of the hands of the player.

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**2,645,485**
**POWER-ACTUATED APPARATUS FOR SETTING PINS**
**Theodore E. Mead, Wilmette, Ill.**
**Application March 30, 1949, Serial No. 84,285**
**3 Claims. (Cl. 273—42)**



1. In pin-setting apparatus, a pin-setting carriage mounted for vertical movement, mechanism arranged with said carriage for exerting a constant force thereagainst to move said carriage downwardly toward pin-setting position, and means arranged with said mechanism operative to resist downward movement of said carriage during the greater portion of its movement into pin-setting position while being inoperative to resist the downward movement thereof during the final portion of such movement toward pin-setting position comprising a hydraulic cylinder equipped with a piston slidably movable relative thereto, said piston and cylinder being related in a relatively tight slidable engagement through a greater portion of the length of said cylinder while the remaining portion of said cylinder is enlarged to provide a passage for the flow of fluid between said cylinder and piston to render it inoperative to resist movement of said carriage.

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**2,645,486**
**CARD BALL**
**Joseph R. Monahan, Myrtle Creek, Oreg.**
**Application April 24, 1951, Serial No. 222,582**
**1 Claim. (Cl. 273—58)**



A game piece comprising hollow hemi-spherical transparent sections permanently secured together to form a hollow transparent sphere, liquid contained within said sphere, the volume of said liquid being equal to approximately one-half of the volumetric capacity of said sphere, a flat buoyant member contained within said sphere and floating on the surface of said liquid, the perimeter of said member being shaped to conform to the symbol of a playing card suit, and indices carried by opposite faces of the buoyant member for designating its value in the suit symbolized by its external configuration, said buoyant member being of only slightly less diameter than the sphere in which it is contained and being floated at approximately an equatorial axis of the sphere as a result of the volume of liquid contained in such sphere.

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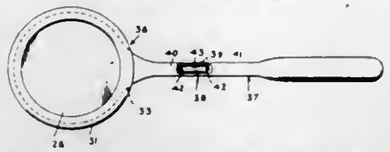
**2,645,487**
**BASEBALL**
**Edward H. Hawes, Natick, Mass., assignor to H. Harwood and Sons, Inc., Natick, Mass., a corporation of Massachusetts**
**Application March 30, 1949, Serial No. 84,361**
**1 Claim. (Cl. 273—60)**



A baseball comprising a spherical core, a strand winding thereon to a diameter less by cover thickness than that for the finished ball, and a non-preformed opaque wear-resistant cover of latex bonded to the winding and filling the interstices and surface voids thereof, said cover constituting an integrated unitary one-piece shell of generally uniform thickness averaging slightly greater than the diameter of the adjacent components of the strand winding, the main outer face of the cover presenting a uniformly smooth winding-obscuring spherical surface structure as characterized by dipping the wound core in and accumulating thereon liquid latex initially to a slight oversize of the ultimate ball and coagulating and drying the dip-covered wound core prior to mold entry, said cover further presenting an integral outwardly projective embossed sewed-seam-simulating formation of self-material comprising an endless figure-eight series of stitch-like mounds oppositely arranged along a juncture-imitating line with dot-like needle-hole simulations at the opposite ends of the stitch mounds, the finished cover with said self-embossed formation having the structural characteristics resultant from heat and pressure emboss-extruding treatment of the dip-covered coagulated and dried over-sized latex-covered wound core in a seam-embossing separable mold with metal-walled empty latex-free cavity of desired ball size.

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**2,645,488**
**PADDLE FOR DISCIPLINING CHILDREN**
**George F. Jorgenson, Norfolk, Va.**
**Application November 24, 1950, Serial No. 197,231**
**3 Claims. (Cl. 273—67)**

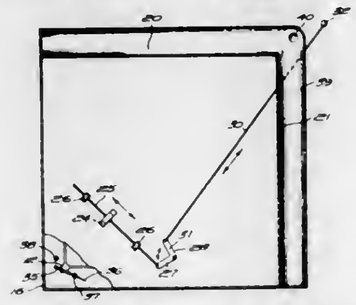


1. A paddle for disciplining children without causing bodily injury thereto comprising a paddle body portion of sufficient area to contact a substantial area of the rump of a child, a first handle section secured to the paddle body portion and extending beyond the margin of the paddle body portion and having an end, a second handle section separate from the first handle section and arranged in substantial longitudinal alignment therewith and having an end arranged in opposed contacting relation with said end of the first handle section, and a pair of frangible tension elements arranged at substantially diametrically opposed points on the handle sections and extending longitudinally of the handle sections and across said opposed contacting ends, the frangible tension elements being secured near corresponding ends to the first and second handle sections upon opposite sides of the contacting ends of the handle sections.



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**2,645,489**
**BASEBALL GAME**
**Thomas Burgess, New Bedford, Mass.**
**Application May 5, 1950, Serial No. 160,254**
**3 Claims. (Cl. 273—90)**

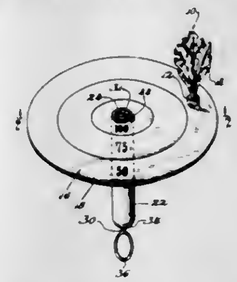


1. A baseball game, comprising a board having markings for an infield, an outfield, bases, and a home plate, a manually operated batting device swingingly mounted and positioned on one side of the home plate, means including a direction device for directing a steel ball to normally roll over said home plate, spaced bearings positioned below said board, a magnet support slidably mounted in said bearings, a magnet secured to said support and positioned beneath the board contiguous to and slightly in advance of the home plate and on the line between home plate and the direction device, and manual means for moving the magnet support to shift the magnet in a direction transverse to said line between home plate and the direction device.

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**2,645,490**
**MAGNETIC DART ENTERTAINMENT DEVICE**
**Harold J. Volman, Cicero, Ill., assignor to Toy Enterprises of America, Inc., Chicago, Ill., a corporation of Illinois**
**Application October 18, 1949, Serial No. 121,977**
**5 Claims. (Cl. 273—101)**

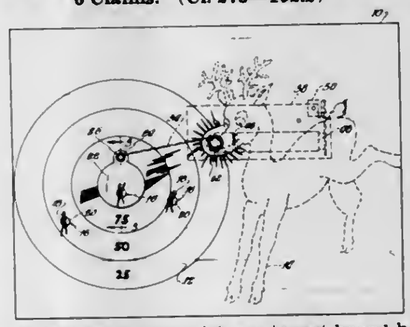
1. A combined projector and target adapted to be freely manually manipulated to engage projected darts comprising a hollow guide having imperforate side walls and of a size to be gripped in the hand of the operator, a target plate fixed to said guide, said target plate being of a relatively large area compared to the sectional area of the guide, said target plate being of a magnetically susceptible material, a magnetic dart having flight stabilizing means adapted to be positioned within said guide, and means within said guide for supporting said dart adjacent the upper end of said guide, for withdrawing said dart including



said flight stabilizing means into said guide and for projecting said dart forcibly from said guide.

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**2,645,491**
**MAGNETIC DART GAME HAVING ENERGIZABLE SIGNALS**
**Harold J. Volman, Cicero, Ill., assignor to Toy Enterprises of America, Inc., a corporation of Illinois**
**Application December 20, 1950, Serial No. 201,765**
**6 Claims. (Cl. 273—102.2)**



3. A dart game comprising a target board having a magnetically susceptible contact on the face thereof, an electrical circuit including said contact, a magnetically susceptible switch plate mounted on said board and displaced from said contact, said switch plate being connected in said circuit, and darts having magnetic heads adapted when appropriately directed at said target board to move said plate into retained engagement with said contact.

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**2,645,492**
**SHUFFLEBOARD TYPE GAME APPARATUS**
**Lyndon A. Durant, Chicago, Ill., assignor to Royal Patent Corporation, Chicago, Ill., a corporation of Illinois**
**Application February 9, 1950, Serial No. 143,309**
**8 Claims. (Cl. 273—126)**

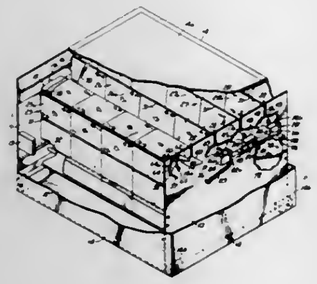


1. In combination, a game apparatus in which there is a cabinet having a wall providing a sub-

stantially horizontally arranged playing surface, an inclined gutter at one end of the playing surface and extending transversely with respect thereto, an inclined return trough within the cabinet and extending substantially at right angles with respect to the gutter and having communication with the lower end of said gutter, a receiving cup carried by the cabinet in communication with the discharge end of the return trough, said gutter including a mouth extending wholly transversely of said playing surface in the plane thereof and adjacent said one end of the playing surface to receive a puck from said playing surface, said mouth having a wall portion extending transversely of the playing surface and curved in the direction thereof for directing said puck into said gutter in a substantially upright position with respect to the bottom of the gutter.

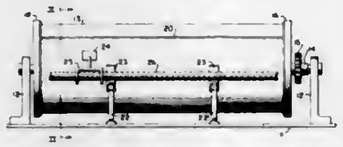
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**2,645,493**
**MECHANICAL CARD GAME APPARATUS**
**John R. McMahon, Los Angeles, Calif.**
**Application July 22, 1949, Serial No. 106,203**
**14 Claims. (Cl. 273—148)**



1. A mechanical game comprising in combination: a plurality of laterally spaced elongated rotary carrier members arranged in substantially parallel relation and disposed on laterally spaced horizontal axes of rotation; a flexible elongated looped member individually carried by each of said carrier members; means to rotate said carrier members selectively; a plurality of series of aligned indicia-bearing parts disposed upon each looped member, the indicia-bearing parts in each series being aligned, and said series being arranged in approximate parallelism with one another, each rotary carrier member having means positioned to present to view each series of aligned indicia-bearing parts, whereby plural series presented in substantially parallel relation by said carrier members may be viewed simultaneously and indicia thereon compared; a framework in which said carrier members are mounted to rotate upon said horizontal axes; first locking means to lock one of said carrier members; second locking means to lock others of said carrier members; a movable device between said first and second locking means to move one thereof into locking position while withdrawing the other to unlocking position; and releasable latch means to retain said device in position holding said other locking means withdrawn.

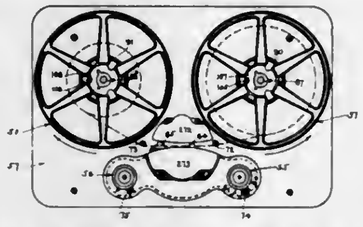
**2,645,494**
**MAGNETIC SOUND RECORDER**
**Ernst Keller, Zurich, Switzerland, assignor to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland, a company of Switzerland**
**Application September 27, 1949, Serial No. 118,153**
**In Switzerland October 2, 1948**
**1 Claim. (Cl. 274—4)**



Magnetic sound recording and reproducing means, comprising in combination with a magnetic transducer head and a flexible sheet having magnetized material upon a surface thereof and engaged by said transducer head, one edge of said sheet having a stiff member connected to the sheet along said edge; a rigid cylindrical drum having an elongated slot formed therein and extending parallel to the axis of said drum, said sheet covering at least substantially the periphery of the drum and being loosely wrapped around it, said stiff member of the sheet loosely fitting into said slot with play, means rotating said drum, two resilient members spaced in relation to each other in the direction of said axis, each member being fixed at one end and contacting a portion of said sheet for tensioning said sheet in its direction of movement, said members exerting a pulling action upon said sheet when said drum is rotated, whereby said stiff member is clamped within said slot.

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**2,645,495**
**RECORDING AND TRANSLATING DEVICE**
**John Victor Nelson, Elmhurst, Ill., assignor to Krag Steel Products, Inc., Chicago, Ill., a corporation of Illinois**
**Application March 26, 1951, Serial No. 217,513**
**9 Claims. (Cl. 274—4)**

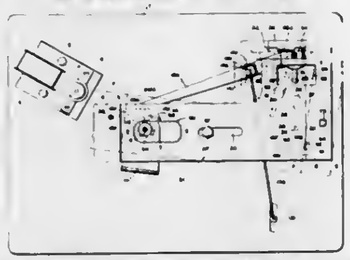


1. In a device of the class described the combination of a sensing head, a spindle element laterally adjacent thereto at one side thereof including a spindle and including a pulley co-axial with the spindle and having a cylindrical surface, a tape guide facing the sensing head and movable towards and from the sensing head, a presser roller facing the spindle at one side of the tape guide, a carrier for both the tape guide and the presser roller, means to movably support said carrier for movement of both the tape guide and the presser roller towards and away from the sensing head and the spindle, respectively, a delivery reel and a receiving reel for tape located at opposite sides of the parts aforesaid, means to support each of said reels, a driving motor, having its shaft substantially parallel to the spindle, a driving pulley on said motor shaft, said driving pulley having two pulley driving surfaces of different diameters and axially displaced from each other, each of said driving surfaces lying in a plane normal to the spindle axis and the motor shaft and both of said planes intersecting the cylindrical surface of the spindle shaft pulley, an idler wheel located in each of said planes and being of size to simultaneously engage the cylindrical surface of the spindle pulley and the motor shaft pulley surface which lies in the plane of such idler wheel, and means to cause driving engagement of either idler wheel with the motor shaft pulley surface which lies in the plane of such idler wheel and with the spindle cylindrical pulley surface, and to simultaneously cause driving disengagement of the other idler wheel from the motor shaft pulley surface which lies in the plane of such other idler wheel and the spindle cylindrical pulley surface, and means to drive the receiving reel supporting means from the spindle element, said last named means including friction means yieldable during drive, to thereby permit rotation of the receiving reel at a rate slower than the free driving rate of the receiving reel for any rotational rate of the spindle.



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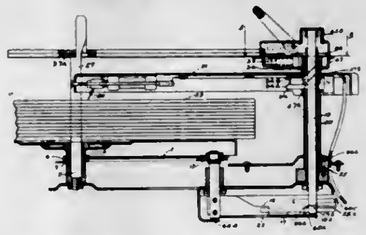
**2,645,496**
**AUTOMATIC PHONOGRAPH MECHANISM**
**Joseph M. Baxter, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana**
**Application October 7, 1946, Serial No. 701,809**
**10 Claims. (Cl. 274—10)**



4. In an automatic phonograph, an L-shaped unitary change-cycle control lever including an extension at one end thereof, cam surfaces on said extension for lifting and lowering a tone arm control mechanism, a pair of stop members disposed on said end to engage a tone arm rotating mechanism for moving a tone arm outwardly from a record or inwardly over the playing groove of a large record, a lever pivoted to said unitary control lever and movable over one of said members for stopping the inward movement of said tone arm over the playing groove of a small record, cam means on said unitary lever spaced thereon from said extension for engaging with a record ejecting means, a deformed gear at the other end of said lever comprising a first portion operable for moving one of said cam surfaces and one of said stop members linearly in one direction to lift said tone arm control mechanism and rotate said tone arm rotating mechanism to move said tone arm from the record, a second portion disposed at an angle of approximately 90 degrees with respect to said first portion for moving said unitary lever angularly in one direction to engage said cam means with said record ejecting means for ejecting a record, a third portion parallel to said first portion for moving said unitary lever linearly in another direction to move another of said stop members and said lever to return said tone arm to the initial playing groove of a large or small record respectively and a fourth portion parallel to said second portion for moving said unitary lever angularly in another direction to move another of said cam surfaces for lowering said tone arm control mechanism, and a plurality of guide surfaces on said lever for cooperating with said gear and a fixed member to determine the path of movement of said lever.

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**2,645,497**
**RECORD CHANGER HEAD AND TONE ARM ASSEMBLY**
**Walter Miller and James L. D. Morrison, Benton Harbor, Mich.**
**Application October 17, 1948, Serial No. 703,886**
**3 Claims. (Cl. 274—10)**



1. In a record changer of the type having a spindle extending upwardly from a turn table in alignment with the axis thereof, a supporting ledge carried by the spindle and extending laterally from one side thereof in vertically spaced relation to the turn table and upon which the center portions of a stack of record disks is supported above the turn table, a tone arm mounted adjacent the turn table to move above a vertical axis toward the axis of the turn table during the playing of a record and to shift vertically and move away from and beyond the edge of the turntable upon completing the playing of the record, a plate in spaced relation to the spindle and cooperating with the ledge for supporting the stack of record disks and for shifting the bottommost record disk in the stack of record disks off of the supporting ledge so as to cause it to fall into playing position on the turntable, said plate having a shoulder thereon and mounted above the tone arm to move in an arcuate path about the vertical axis toward and away from the spindle, and means carried by the tone arm and operatively connected to the shoulder for swinging said shoulder in said arcuate path toward the spindle as the tone arm moves beyond the edge of the turn table and engaging the bottommost record disk in the stack of record disks and propelling it off of the supporting ledge.

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**2,645,498**
**PICKUP ARM HAVING A ROTATABLE CARTRIDGE WITH TWO NEEDLES**
**Walter Miller and James L. D. Morrison, Benton Harbor, Mich.**
**Application August 11, 1948, Serial No. 43,636**
**5 Claims. (Cl. 274—23)**



1. In a sound reproducer an elongated pickup arm mounted adjacent one end to move about

a horizontal axis under the influence of gravity, restraining means mounted to move about the horizontal axis for yieldingly restraining the movement of said arm under the influence of gravity, diametrically opposed record engaging needles mounted in said arm remote from the supported end thereof for movement about an axis which intersects the horizontal axis into and out of record engaging position, and flexible means connected to the needles and to the restraining means for altering the effort of the restraining means on the arm as the needles are moved into and out of record engaging position.

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**2,645,499**
**PHONOGRAPH SPINDLE APERTURE REDUCER**
**William H. Myers, Fort Wayne, Ind., assignor to Farnsworth Research Corporation, a corporation of Indiana**
**Application March 22, 1949, Serial No. 82,817**
**1 Claim. (Cl. 274—42)**

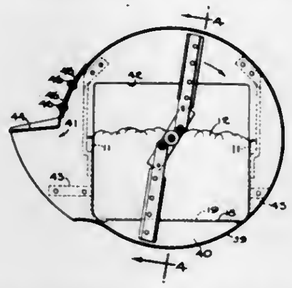


A device for reducing the size of an abnormally large spindle aperture of a disc-shaped phonograph record to the standard size spindle, comprising an annular member having an aperture at the center thereof, said aperture having a diameter slightly larger than the diameter of a standard-sized spindle, the peripheral wall of said member comprising an integral lower, laterally extending flanged portion having a diameter substantially greater than the aperture of the record, an integral upper laterally extending lip-portion having a diameter slightly larger than the aperture of the record and having a small degree of resilience, and a central portion connecting said upper and said lower portions, said central portion having a diameter substantially equal to the diameter of the aperture of the record, and a width substantially equal to the thickness of the record, said member adapted to be removably inserted in the aperture of said record by the compression of said upper portion against the side of the aperture of the record.

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**2,645,500**
**MATERIAL DISINTEGRATING AND DISTRIBUTING MACHINE**
**Raymond H. Moss, Freeport, Ill.; Edna B. Moss, executrix of said Raymond H. Moss, deceased**
**Application March 2, 1950, Serial No. 147,287**
**4 Claims. (Cl. 275—6)**

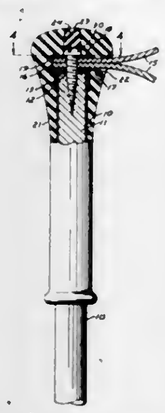
1. The combination of, an elongated wagon box open at one end, a housing enclosing said open end of said box and comprising spaced upright parallel plates mounted on the box and joined together by a peripheral wall extending longitudinally of the box and having a side opening therein, the inner one of said plates having an opening therein facing longitudinally of the box to receive material from the latter, a blade having a leading cutting edge and mounted on said housing for rotation within the latter in a plane parallel to said plates and about an axis extending longitudinally of the box, a conveyor supported for movement along said box toward said housing to transfer material from the box through said inner plate opening and into engagement with said blade, a flange projecting laterally from said blade toward said outer plate at a point spaced so as to trail behind said cut-



ting edge and engage the material cut thereby to throw the same outwardly through said side opening and laterally away from said box, and a deflector plate projecting outwardly from said peripheral wall to define the upper end of said side opening and adjustably mounted on the wall to vary the size of the opening and control the pattern of distribution of said material.

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**2,645,501**
**SHAFT ASSEMBLY, INCLUDING HANDLE-GRIP AND HAND-LOOP STRAP**
**Thomas L. Fawick, Cleveland, Ohio, assignor to Fawick Flexi-Grip Company, a corporation of Ohio**
**Application March 3, 1949, Serial No. 79,423**
**1 Claim. (Cl. 280—11.37)**

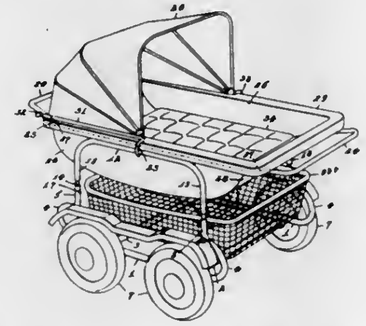


The combination of a shaft structure, a hand grip which fits upon an end portion thereof, said grip being formed with a strap-receiving hole extending from the end face of said end portion of said shaft structure and opening upon an external side face of the grip and with a fastener-receiving hole extending from said end face of said shaft structure and opening upon the outer end face of the grip, a hand-loop strap removably extending inward through the said strap-receiving hole and removably overlying the said end face of the shaft structure, and strap-fastening means removably extending inward through the said fastener-receiving hole and clamping the said strap against the said end face of the shaft structure.



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**2,645,502**
**PERAMBULATOR**
**Charles Collins and Dorothy J. Collins, Port Credit, Ontario, Canada**
**Application March 2, 1951, Serial No. 213,556**
**5 Claims. (Cl. 280—31)**

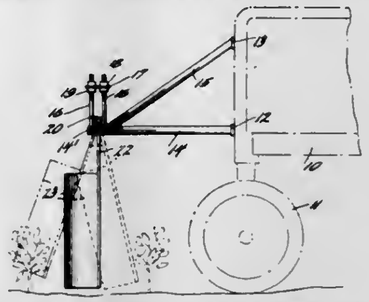


4. In a perambulator including front and rear axles and running gear, a lower frame member of tubular construction comprising medial horizontal portions connecting the front and rear axles at opposite sides of the structure and upwardly turned ends constituting corner posts, vertically compressible springs confined within said corner posts, said springs being restrained at their lower ends against downward movement, an upper frame member comprising legs vertically aligned with the said corner posts respectively and yieldingly supported by said springs, and a horizontally disposed rectangular carrier supporting frame extending beyond said legs at each end of the structure, said carrier supporting frame being of reduced width endwise from points beyond and equi-distant from the front and rear legs whereby relatively narrow handles are provided at the ends of the structure, a carrier having flat sides and a lengthwise rounded bottom, said carrier having lateral flanges resting on said supporting frame and supporting said body suspended between and on a lower plane than said supporting frame, a folding top, arms disposed at opposite sides of the structure and carrying said top, said arms having pivoted connection at their one ends with one of said handles for swinging movement to bring said top into and out of position above said carrier, and latching means carried by the free ends of said arms detachably engaging the side flanges of said carrier and the carrier supporting frame.

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**2,645,503**
**TRACTOR WHEEL GUARD**
**Moses Lee Johnson, Sumter, S. C., assignor of forty-nine per cent to Morris David Mazursky, Sumter, S. C.**
**Application October 17, 1951, Serial No. 251,704**
**6 Claims. (Cl. 280—160)**

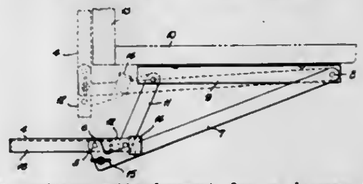
1. A wheel guard comprising a fixture extending from an end of a vehicle, said fixture having laterally spaced side bars, a pair of upwardly extending fingers on each side bar, a rod supported at each end on a side bar between the pair of fingers on said bar, said fingers being spaced so as to permit the rod to move bodily upward and downward or to tilt transversely of the vehicle



or to rock on its supports, and a plant guard extending downward from the rod.

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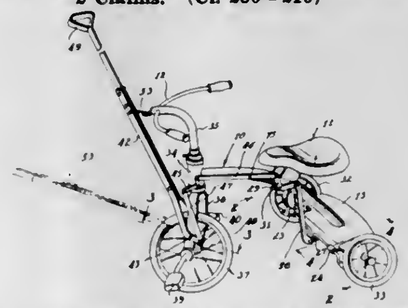
**2,645,504**
**FOLDABLE STEP ASSEMBLY FOR HOUSE TRAILERS**
**Clem G. Branstrator and Wayne R. Branstrator, Fort Wayne, Ind.**
**Application November 4, 1949, Serial No. 125,426**
**12 Claims. (Cl. 280—166)**



1. A unitary attachment for a house trailer comprising a folding step, a support for said step consisting of angle-irons attached to the floor of the trailer, beams pivotally connected to said angle-irons provided with upturned ends to which said step is pivotally connected, rearwardly extending arms on said step, links pivotally connected at their opposite ends respectively to the angle-irons and rearwardly extending arms, and stops on said beams having engagement with the arms on said step to limit unfolding movement of the step.

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**2,645,505**
**COMBINATION MOTHER'S PULL AND BRAKE ARRANGEMENT FOR TRICYCLES**
**Donat J. Durand, Bluefield, W. Va.**
**Application April 3, 1952, Serial No. 280,295**
**2 Claims. (Cl. 280—210)**

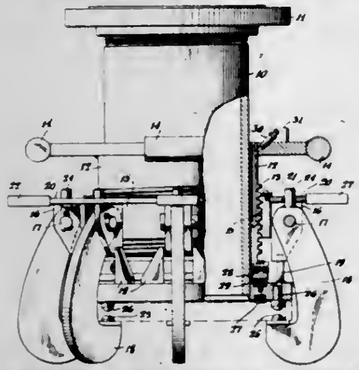


2. In combination, a tricycle, brake means mounted on said tricycle and operable between braking and released positions thereof, a draw

pull bar pivotally connected to the tricycle at the forward end thereof, said brake means connected to the draw pull bar and operable thereby as the draw pull bar is moved up and down, a drive wheel connected to the forward end of the tricycle and separable pedal arms extending into the drive wheel and axially adjustable relative to each other, means extending between the wheel and the separable pedal arms to releasably hold the respective arms in driving relationship with the wheel and means extending between the draw pull bar and the separable pedal arms to release the pedal arms from the wheel as the draw pull bar is lowered from the tricycle.

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**2,645,506**
**PIPE FLANGE CONNECTION**
**Robert P. Sturgis, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**Application February 9, 1951, Serial No. 210,165**
**2 Claims. (Cl. 285—129)**

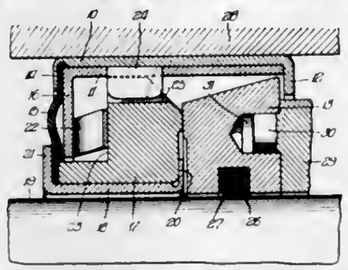


1. A pipe flange connection comprising a pipe, an outwardly extending flange integral with the end of said pipe, an exteriorly threaded collar about said pipe adjacent said flange, a spider having internal threads about and engaging the exterior threads of said collar, a plurality of L-shaped dogs each mounted at one end on said spider for pivotal movement about an axis tangent to said spider, the leg of said dogs remote from the point of attachment aforesaid being adapted to move into position parallel to the face of said flange and engage a corresponding flange member to be connected thereto, a lug extending from each of said dogs in the direction opposite from said leg thereof, a cam plate rotatably mounted on said spider adjacent the side of said spider remote from said flange, said cam plate having slots therein at an acute angle to radii of said cam plate and adapted to engage said lugs, means to inhibit rotation of said spider about said pipe and means to induce rotary movement of said collar about said pipe.

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**2,645,507**
**SELF-CONTAINED OIL SEAL**
**Robert O. Isenbarger, Chicago, Ill., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Original application February 14, 1947, Serial No. 728,659, now Patent No. 2,489,781, dated November 29, 1949. Divided and this application August 11, 1949, Serial No. 109,781**
**5 Claims. (Cl. 286—11)**

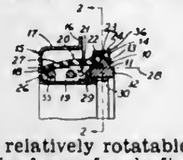
3. A self-contained seal comprising concentric sealing and mating rings having relatively rotative, end sealing engagement with one another, a rigid casing externally housing said rings and adapted to be secured to a part to be sealed, said casing including a member having a radially extending flange disposed rearwardly of said sealing ring and a further member in fixed engagement with said member adjacent the periphery thereof, an axially acting spring in compression between



said flange and sealing ring to urge the latter against said mating ring, an annular, radially extending diaphragm having its outer margin fixedly secured to said casing rearwardly and externally of the flange thereof by clamped engagement of said margin between said flange and further member, and means securing the inner margin of said diaphragm to said sealing ring.

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**2,645,508**
**ROTARY MECHANICAL SEAL**
**Frank E. Payne, Glencoe, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois**
**Application November 14, 1949, Serial No. 127,115**
**5 Claims. (Cl. 286—11)**



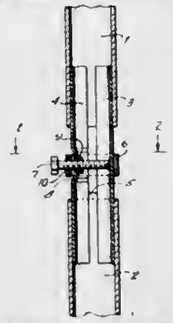
1. A seal for relatively rotatable elements one of which is in the form of a shaft, said seal comprising a washer adapted to surround the shaft and having an inner and an outer cylindrical surface and a front face provided with a centrally disposed forwardly extending annular nose portion providing a radial sealing surface adapted to bear against a surface normal to and fixed relative to the shaft, said sealing surface being offset forwardly from the front face of the washer, a deformable sleeve of elastomeric material, said sleeve having a radially inwardly disposed flange at one end, a substantially cylindrical region at its other end and an inwardly deformable intermediate region adapted to accommodate relative axial movement between the ends of the sleeve, means for compressing the cylindrical region of said sleeve against the outer cylindrical surface on the washer to form a fluid-tight connection therebetween, a retainer adapted to surround said shaft and having a cylindrical portion extending into said washer and serving to support the same and a radial wall disposed rearwardly of said washer and against which the inwardly disposed flange of said deformable sleeve bears, a coil spring disposed within the sleeve and adapted to surround said shaft and bearing at one end against said inwardly disposed flange and at the other end against said washer adjacent the inner cylindrical surface and within the extended cylindrical confines of said nose portion to prevent rearward



shifting of the washer relative to said retainer and to maintain said deformable sleeve at least in part extended, portions of said sleeve, upon inward deformation thereof, being capable of contraction to a region within said extended cylindrical confines of said nose portion, and interengaging means on said cylindrical portion of the retainer and on the washer for establishing a driving connection therebetween.

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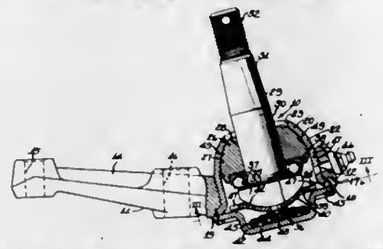
**2,645,509**
**COUPLING DEVICE FOR TUBULAR ELEMENTS**
**Oldřich Valenta, Prague, Czechoslovakia**
**Application May 5, 1949, Serial No. 91,601**
**In Czechoslovakia April 30, 1946**
**1 Claim. (Cl. 287—2)**



A coupling device for axially aligned tubes comprising, in combination, a first elongated tube segment; an embracing ring embracing said first elongated tube segment and rigidly secured thereto in the middle thereof, and having a guiding hole arranged opposite said first elongated tube segment; a second elongated tube segment disposed opposite said first elongated tube segment within said embracing ring, having the portion embraced by said embracing ring reduced in diameter and provided with a threaded hole in the middle thereof; a screw passing from the outside through said guiding hole in said embracing ring and being screwed in the said threaded hole in said second tube segment and abutting with its tip against the center of the inner face of said first tube segment so that said tube segments are forced apart when said screw is turned.

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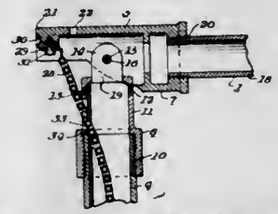
**2,645,510**
**JOINT ASSEMBLY**
**James H. Booth, Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application November 30, 1950, Serial No. 198,456**
**12 Claims. (Cl. 287—90)**



3. In a ball joint assembly, an arm having an eye through one portion thereof, a socket member fixedly disposed in said eye and having an integral socket portion extending out of said eye, a stud in said socket member and having a shank projecting through said integral socket portion, said stud being tiltable and rotatable relative to said socket member, attachment means between said socket member and the wall of said eye for preventing rotation of the socket member relative to the arm, and means for retaining the stud in proper bearing contact within said socket member.

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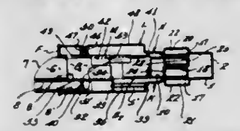
**2,645,511**
**POLE HINGE**
**Harry E. Rutledge, Pittsburgh, Pa.**
**Application August 30, 1950, Serial No. 182,215**
**1 Claim. (Cl. 287—99)**



A hinged and counterbalanced pole consisting of upper and lower pole sections, hinged members secured to said pole sections, aligned bearings in both hinged members, a pivot pin in said bearings to pivot said hinged members together, an enlarged portion on said lower hinged member below said bearings, an arcuate skirt on the upper hinged member fitting over the lower hinged member to form a smooth coupling with said enlarged portion on one side when the pole sections are in alignment, co-operating openings in said skirt and lower hinged member, a bolt in said cooperating openings to secure the skirt to the lower hinged member, and hold the upper and lower pole sections in alignment, an arcuate locking plate detachably secured to the lower hinged member on the opposite side of said skirt to complete the smooth coupling with said enlarged portion, a window in the lower hinged member adjacent to and covered by said skirt, a lug on said skirt projecting into said window and covered by said skirt, a chain attached to said lug and passing through said window when uncovered by said skirt, a spring secured to the end of said chain and suspended in the lower pole section, and means in the lower pole section to which said spring is attached to provide a counterbalancing force for the upper pole section.

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**2,645,512**
**DEAD LATCHING DOOR LOCK**
**Franz Netschert, Glendale, Calif., assignor to Technical Glass Company, Inc., Los Angeles, Calif., a corporation of California**
**Application May 20, 1949, Serial No. 94,276**
**3 Claims. (Cl. 292—169)**

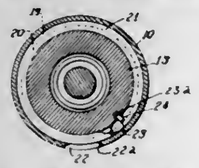


1. A door lock comprising: a housing; a spindle rotatable thereon; an actuator fixed to and for rotation with the spindle; a main bolt and a secondary bolt extensible from and retractable

in the housing; a compression member slidable longitudinally of said main bolt, said main bolt being connected with and for retraction by said actuator and said compression member being connected with and slidably moved by the actuator simultaneously with but in an opposite direction to that in which the main bolt is moved; a spring compressed between the bolt and the compression member so that upon retraction of the main bolt said spring will be compressed to a maximum extent by a minimum movement of the main bolt and the compression member, a latch anchored to the housinng at its rear end and resiliently held depressed at its forward end in position to engage and lock the main bolt against retraction, said secondary bolt and said latch having right angularly bent flanges extended over opposite sides of said main bolt and adapted to engage for moving the latch into unlatching relationship with the main bolt as the bolts are extended together and to release the latch for movement into latching position when the main bolt is extended and the secondary bolt is held retracted.

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**2,645,513**
**CYLINDER CONSTRUCTION**
**Vance C. Sterrett, Logansport, Ind.**
**Original application December 31, 1947, Serial No. 794,975. Divided and this application July 29, 1949, Serial No. 107,535**
**1 Claim. (Cl. 292—256.6)**



A separable connection between relatively rotatable telescoping elements comprising, a cylindrical cover having an inner cylindrical surface with an annular recess therein and a peripheral opening leading into said recess, said opening having a width at least as wide as said recess, a cylindrical head fitting into said cover and having an annular recess in the periphery thereof and adapted to register with the recess in the cover, an anchor pin of hard shear resistant material mounted in said head and projecting radially therefrom into the recess formed therein, and a locking strip, said strip having a cavity therein adjacent one end and engaging said pin, said strip having a cross sectional area substantially equal to the combined cross sectional area of said recesses when said recesses are registered.

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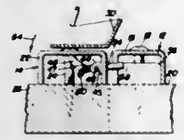
**2,645,514**
**BAG SEALING DEVICE**
**Michael Mitchko, Irvington, N. J.**
**Application August 22, 1950, Serial No. 180,789**
**2 Claims. (Cl. 292—307)**



1. A sealing device for a bag of flexible material comprising a metal plate for partially encircling the folded mouth of the bag, a flexible metal strap secured at one end to said plate with the main portion of the strap to encircle the remainder of the mouth of the bag, said plate having a slot adjacent one end thereof, the free end of said strap being insertable through said slot and the strap being adjustable lengthwise through the slot for tightening the folds of the mouth of the bag, said end portion of the plate being weakened and bendable along said slot against the main portion of the strap when the strap extends through said slot, said end portion of the plate having a prong projecting from the side thereof toward the strap to penetrate and clinch upon said strap as said end of the plate is bent toward the main portion of the strap after the strap has been tightened around the folds of the bag.

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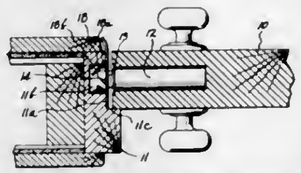
**2,645,515**
**WINDOW LOCK**
**Valery C. Thomas, Sr., Miami, Fla.**
**Application September 5, 1950, Serial No. 183,122**
**1 Claim. (Cl. 292—336)**



A sash lock comprising, a hollow base for mounting on the meeting rail of a lower sash, a spring actuated cam lock lever rotatably mounted on said base, a pair of spaced bearings in the base, said bearings having downwardly extending, open ended slots therein, and a latch pivotally mounted in the base and engageable, at one end, with the lock lever for releasably securing same in inoperative position, said latch including trunnions at an intermediate point journaled in the slots of the bearings, and a coil spring extending under tension between said bearings and engaged beneath the latch for yieldingly urging same toward operative position and for retaining the trunnions in the bearings, the other end portion of the latch being engageable with and operable by a stationary member on an upper sash for releasing the lock lever when the lower sash is closed.

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**2,645,516**
**DOOR LOCK**
**Neil F. Robertson, Tacoma, Wash.**
**Application December 16, 1949, Serial No. 133,377**
**1 Claim. (Cl. 292—341.12)**

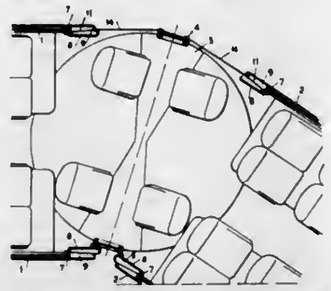


In a latch structure of the character described comprising a keeper having a flat face surface and a latch bolt receiving opening formed therein with a forward vertical edge, and an integral flange extending from the said forward vertical edge and against which an entering latch bolt will engage; the portion of the flange immediately adjacent said vertical edge extending inwardly at substantially right angles to the face surface of the keeper and the remaining portion of the flange extending inwardly at approximately a 45° angle away from the forward vertical edge and across the opening.



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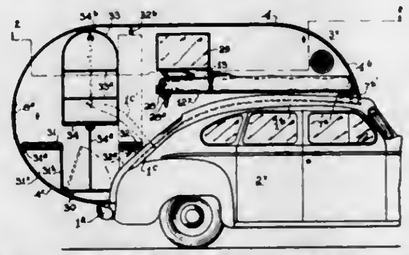
**2,645,517**
**ARTICULATED VEHICLE BODY CONNECTION**
**Mario Reverberi, Turin, Italy, assignor to Officine Viberti Società per Azioni, Turin, Italy**
**Application April 11, 1951, Serial No. 220,391**
**In Italy April 19, 1950**
**5 Claims. (Cl. 296—1)**



1. In a vehicle comprising two body sections articulated to one another, each body section including a floor, side walls and a roof and having entrance openings facing one another, a platform mounted for rotation about a vertical axis between the floors of said body sections, a body member of reversed U-shape secured to said platform in a transverse vertical plane passing through the vertical axis of the platform, flexible diaphragms connecting the opposed ends of said body sections to said body member, each of said diaphragms being formed by two superposed sheets of flexible material and comprising a non-extensible smooth portion connected to said body member and a double bellows shaped end portion secured to the end of one of said body sections, the edges of said opposed ends of said body sections being formed with recesses adapted to receive the double bellows shaped end portions of said diaphragms, and resilient means disposed within the double bellows normally urging said bellows shaped portions into said recesses to hold them in collapsed position therein.

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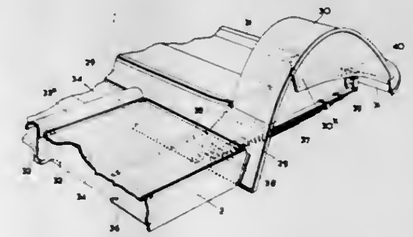
**2,645,518**
**OCCUPANT COMPARTMENT SUPERIMPOSED ON VEHICLE BODY**
**Harvey A. Cook, University Heights, Ohio**
**Original application June 30, 1948, Serial No. 36,012. Divided and this application August 23, 1950, Serial No. 181,008**
**1 Claim. (Cl. 296—23)**



A non-collapsible human occupancy structure adapted to be removably mounted on the conventional closed body of a passenger vehicle the rear portion of which is provided with a compartment and a door therefor, said structure extending longitudinally of the passenger body and consisting of top, front, side and rear walls, the terminating ends of said walls being shaped to snugly fit contiguous portions of the vehicle body, whereby said structure is closed, said rear wall extending outwardly beyond the vehicle body and downwardly and inwardly for engagement with the rear end wall of the vehicle body to provide therewithin a utility section, a transversely disposed flooring for the utility section disposed adjacent the inwardly extending portion of said rear wall, a transversely extending seat and a table above said flooring, said seat being disposed in the path of movement of the door for said compartment and hingedly mounted at one end on one of said side walls, whereby it may be swung into an inoperative position to permit opening of said compartment door.

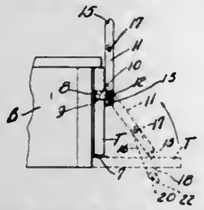
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**2,645,519**
**ROAD VEHICLE BODY OF CHASSISLESS TYPE**
**James R. Stanfield, Birmingham, and Thomas K. Garrett, Rubery, near Birmingham, England, assignors to The Austin Motor Company Limited, Birmingham, England**
**Application June 23, 1950, Serial No. 169,890**
**In Great Britain June 27, 1949**
**7 Claims. (Cl. 296—28)**



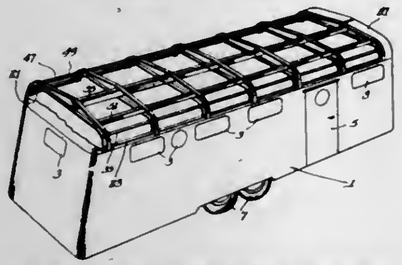
1. A road vehicle body structure comprising a pair of upstanding panels arranged in spaced face to face relation for disposition between the wheels of a vehicle and comprising inner longitudinal walls of a pair of wheel housings with one end of each of said panels extending outwardly of the body and forming a cantilever supporting beam for supporting the body from a spring suspension adjacent the outer end of each panel, means interconnecting said panels for maintaining them in fixed relation, a pair of upstanding sill plates, each positioned laterally outwardly of and overlapping an inner portion of the corresponding panel and spaced therefrom an amount to provide a wheel receiving recess, a transversely extending plate member extending between said sill plates and fixedly secured to the sill plates and the panels, means including said overlapping portions of the corresponding sill plate and panel forming torsion boxes including top, bottom and end walls extending between the corresponding panel and sill plate and forming therewith the substantially closed torsion boxes, said transversely extending plate member forming at least one of said walls of said torsion box, and means secured to each of said panels adjacent the outer end thereof for supporting a wheel suspension means therefrom.

**2,645,520**
**FASTENER FOR HINGED TAIL GATES**
**J R. Morgan, Barryton, Mich.**
**Application June 23, 1952, Serial No. 295,077**
**2 Claims. (Cl. 296—57)**



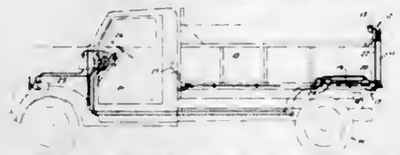
1. The combination with a vehicle body having a hinged tail gate, of a locking means therefor comprising a link having an end pivotally connected to said vehicle body adjacent the upper end of said tail gate, a second link having an end section pivotally connected to said tail gate at a point in horizontal alignment with the point of connection of said first-mentioned link when said tail gate is in vertical, closed position and said links are in vertical parallel relationship, said end section extending beyond the point of connection to the tail gate and being formed with an inwardly bent, reduced portion, the opposite end of said second link being pivotally connected to said first-mentioned link, the connected end of said first-mentioned link extending beyond the point of connection and a portion thereof being turned inwardly to engage the inwardly bent portion of the second link limit pivotal movement of said second link when said tail gate is in closed position and said links are in parallel relationship and have been swung down to locked position.

**2,645,521**
**TRAILER COACH ROOF STRUCTURE**
**Victor J. Judson, Goshen, Ind.**
**Application April 15, 1949, Serial No. 87,821**
**6 Claims. (Cl. 296—137)**



4. A trailer coach roof structure of unitary construction comprising a plurality of wooden longitudinal stringers, a plurality of light weight metal sleepers arranged substantially transversely of said stringers, each of said sleepers comprising a pair of spaced apart light weight metal flat strap-like ribs secured in spaced relation by a plurality of flat strap-like spacer members of light weight metal secured at intervals thereto, some of said spacer members being spaced substantially the width of a stringer and securely gripping a stringer, all of said sleepers being curved downward at their extremities and some of the stringers being secured substantially at and between said extremities for cooperation with stringers lying atop the walls of a trailer coach, a pair of end caps of light weight metal at each end of said roof structure, light weight sheet metal secured above said stringers and sleepers in juxtaposition thereto, said sheet material overlapping said caps, and said sheet material and said caps extending below the bottom stringers for overlying the exterior surface of a trailer coach, and light weight sheet material secured below said stringers and sleepers and spaced from said exterior surface and providing a ceiling for a trailer coach.

**2,645,522**
**DUMPING TRUCK**
**Owen Kersey, Lemoyne, Pa.**
**Application February 7, 1951, Serial No. 209,874**
**4 Claims. (Cl. 298—23)**



1. Operating means for the tail gate of a vehicle body and comprising in combination, a vehicle body, a tail gate for closing one end of said body, disconnectible means pivotally connecting the upper end of said tail gate to the sides of said body, pivot pins connected to and projecting coaxially in opposite directions from the lower end of said tail gate, said pins being perpendicular to the sides of said body and projecting respectively beyond the planes of said sides, a pair of hydraulic cylinder and piston units disposed on the exterior of opposite sides of said body and one end of each unit being pivotally connected to one side of said body appreciably forwardly of said tail gate and the opposite ends of said units having bearing apertures respectively pivotally receiving said pivot pins, a source of hydraulic power connected to opposite ends of each cylinder, a control valve operable to cause said hydraulic units to operate in unison to move said tail gate between closed and a predetermined maximum open position, a notched bracket on each side of said body arranged respectively to receive said pivot pins when said tail gate is closed, and a latch associated with each bracket and operable to pivotally and releasably hold said pivot pins within the notches of said brackets, said pivotal connecting means at the upper end of said tail gate being disconnectible selectively to permit said tail gate to be pivotally supported at its lower edge by said pins and brackets.

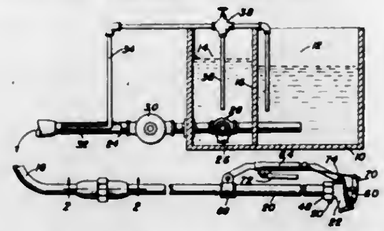
**2,645,523**
**SUPPORT STRUCTURE FOR BOOM TYPE CROP SPRAYERS**
**Vinje M. Long, Lewistown, Mont.**
**Application September 7, 1951, Serial No. 245,504**
**7 Claims. (Cl. 299—30)**



1. Support structure for boom type crop sprayers, said structure comprising a vertical pivot unit adapted for attachment to a vehicle, a horizontal pivot unit carried by said vertical pivot unit, a boom mounted intermediate the ends thereof on the horizontal pivot unit and including a relatively long outer arm and a relatively short inner arm, an adjustable counterweight on said inner arm, and a ground engaging leg provided on the outer arm of said boom.

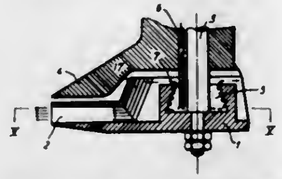


**2,645,524**
**ROOFING ASPHALT SPRAY SYSTEM**
**Kennett C. Kelly, San Francisco, Calif.**
**Application September 1, 1950, Serial No. 182,811**
**8 Claims. (Cl. 299—58)**



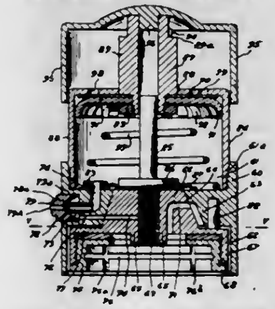
1. An asphalt spraying device comprising an outer conduit connected to a source of asphalt, an inner conduit extending through the outer conduit and of a diameter considerably less than the diameter of the outer conduit, a delivery nozzle carried by the outer conduit and having an outlet, said inner conduit including a first end terminating adjacent the nozzle, a valve slidably carried by the nozzle for selectively opening and closing the first end of the inner conduit, said valve also closing the nozzle outlet during its opening movement relative to the first end of the inner conduit and opening the nozzle outlet during its closing movement relative to the first end of said inner conduit, means yieldingly urging the valve to its open position relative to said inner conduit, manually actuated means mounted on the outer conduit and connected to the valve for urging the valve to its closed position relative to said inner conduit, said inner conduit having its other end disposed exteriorly of the outer conduit and remote from the nozzle, and impelling means connected to said outer conduit for directing a liquid through the outer conduit.

**2,645,525**
**LIQUID ATOMIZER**
**Johan Ernst Nyrop, Hellerup, near Copenhagen, Denmark, assignor, by mesne assignments, to Niro Corporation, New York, N. Y.**
**Application April 18, 1949, Serial No. 88,220**
**In Denmark April 26, 1948**
**8 Claims. (Cl. 299—63)**



1. A liquid atomizer comprising a shaft, means for rapidly rotating the shaft, a cup-shaped first liquid distribution member secured to the shaft, the edge of said cup-shaped first distribution member lying in a plane substantially at right angles to the shaft and concentrically with said shaft, a stationary liquid supply pipe leading into said first distribution member, a second liquid distribution member co-axially surrounding said first distribution member and spaced from the latter, said second distribution member having guide surface elements thereon facing said first distribution member, said guide surface elements being disposed at different distances from the axis of rotation of the first distribution member, said second distribution means defining deflection paths for the liquid, said paths being at an angle with respect to the plane of the edge of said first liquid distribution means, third liquid distribusion members disposed within the range of said deflection paths and defining further deflection paths for the liquid at an angle with respect to the first deflection paths, a vane wheel secured to said shaft, outer edges on said vanes for flinging out liquid in atomized condition and inner edges on said vanes disposed within the range of said further deflection paths.

**2,645,526**
**ATOMIZER STOPPER FOR PHIALS**
**Jean Emmanuel Paul Tsouderos, Saint-Maur-des-Fosses, France**
**Application October 24, 1950, Serial No. 191,754**
**In France October 25, 1949**
**10 Claims. (Cl. 299—88)**



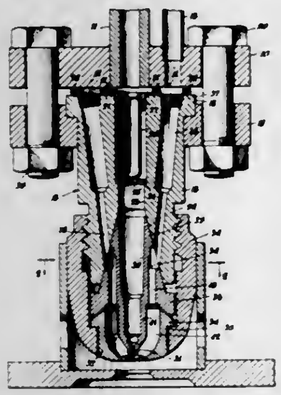
1. An atomizer stopper for phials, comprising in combination a socket adapted to be sealed on the neck of the phial, a screw thread on the outside of said socket, a unit offering at its lower portion a tapped sleeve screwed on said screw thread, at its middle portion a plate and at its upper portion a second tapped sleeve, a central boss extending from the under side of the plate, a tapped hole extending through said boss and plate, for receiving a capillary tube dipping into the liquid, said plate having a first channel starting from said tapped hole and going to a chamber provided in the plate near its periphery, a short pipe placed inside said chamber and leaving at the lower portion of the chamber a space for receiving the liquid, said plate having a second channel communicating said chamber with the outside, said pipe having a hole facing said second channel, a pump body consisting of a cylindrical cup shaped element screwed by its lower threaded edge in said second tapped sleeve of said unit, a guiding rod screwed in the upper portion of the tapped hole of said plate and extending upwards inside said pump body, a piston placed inside the pump body, a piston rod secured to said piston, a bore inside said piston rod allowing it to slide on said guiding rod, a spring tending to push said piston towards the upper portion of the pump body, and a cylindrical cap secured to the upper portion of the piston rod of said piston, said cap sliding on the outside of the pump body and enclosing it completely when it is pushed downwards with the piston against the action of the spring, and means for immobilizing said cap in its downwardly pushed position.

2,645,527

## NOZZLE CONSTRUCTION FOR ATOMIZING A LIQUID MATERIAL BY AN ATOMIZING GAS

Clarence C. Walters, Willoughby, Ohio, assignor, by mesne assignments, to Crowley-Republic Steel Corporation, Cleveland, Ohio, a corporation of Ohio

Application October 17, 1950, Serial No. 190,520
6 Claims. (Cl. 299—140)



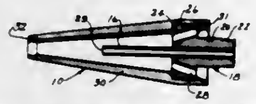
1. A nozzle construction for atomizing a liquid material by an atomizing gas, comprising a central nozzle member having a passage extending therethrough for said liquid material, an outer nozzle member cooperating with said central nozzle member to form an annular passage therebetween for said atomizing gas, means for holding said nozzle members together in a concentric arrangement, said nozzle members having their portions defining the end portion of the first named passage for liquid material and said annular passage formed of surfaces of revolution concentric with a central axis, said first named passage having a circular cross section at the tip of said central nozzle member concentric with said central axis, said tip being formed with an end portion defining the inside of said annular passage, said annular passage having an outer end portion which is formed by cooperating, substantially conical parallel surfaces of said end portion of said central nozzle member and of an end portion of said outer nozzle member, said nozzle members when viewed in central longitudinal section in a plane containing said central axis being formed with their portions defining said annular passage symmetrical about a line in said plane inclined in respect to said central axis, said inclined line if rotated around said central axis defining a conical reference surface, the outer end portion of said annular passage terminating in a conical surface inverted in respect to said conical reference surface and perpendicular thereto at all points on the line of intersection thereof, said inclined line forming with said central axis an angle of about 35° to about 60°, an annular plenum chamber for the atomizing gas formed between said central nozzle member and said outer nozzle member and communicating with said annular passage, and said annular passage having its minimum width measured between the parallel sides of said annular passage at its outer end, which width is measured in a direction perpendicular to said inclined line, said minimum width being at least as great as the dimension, measured parallel to said inclined line and from said outer end of said passage of the parallel sided portion thereof.

2,645,528

## AIR NOZZLE DEVICE

Thorvald L. Thorsen, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application November 30, 1950, Serial No. 198,360
2 Claims. (Cl. 299—140)



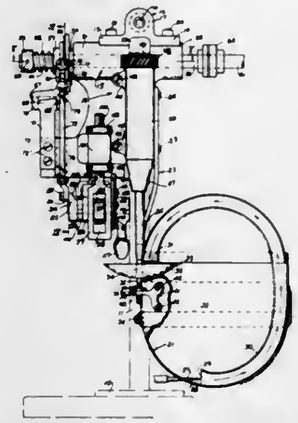
1. In combination with a compressed air supply control valve, an air nozzle device comprising a hollow nozzle member of generally frustoconical configuration providing a discharge orifice at its smaller end and being internally threaded near its larger end, a body member threadedly received in the internally threaded larger end of the nozzle member and having a shank portion in removable, relatively close-coupled nozzle supporting attachment to the control valve, a tube secured centrally in said body member and shank portion and having one end in compressed air receiving communication with the control valve, the opposite end portion of the tube extending approximately half way into the interior of said hollow nozzle member with its terminal discharge end centrally therein, for directing compressed air to and through said nozzle orifice, and said body member having a plurality of passages therein radially outward of said tube, for atmospheric air admission to the interior of said nozzle member, said passages being inclined forwardly toward said nozzle discharge orifice with the longitudinal axes of the passages intersecting the longitudinal axis of said tube at a point near said terminal discharge end of the tube.

2,645,529

## MEASURING DEVICE FOR SPRAY APPLICATORS IN PREVENTION OF OFFSET AND THE LIKE

Arthur J. Jenner, Arlington Heights, Ill., assignor of one-half to Alexander F. Szymborski, Chicago, Ill.

Application January 2, 1951, Serial No. 203,947
25 Claims. (Cl. 302—12)



1. In a device of the character described, the combination with a compact dust material supply source, of a compressed air supply source for directing air under pressure and velocity along a predetermined path of flow, mechanical measuring scooping means in and proximate to said supply source for transferring predetermined increments of solid dust material from said supply source to said predetermined path of air flow, means for releasing predetermined charges of air along said path of air flow in timed relation with the transfer of dust material increments thereto, and an enlarged discharge chamber for controlled and confined expansive effluent distribution of the predetermined increments of dust material in the form of an extremely light dry film.

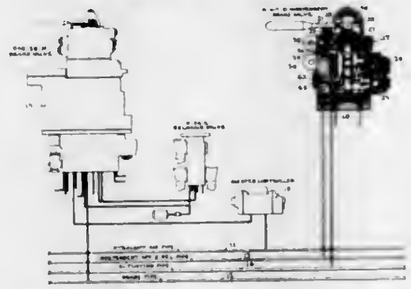


2,645,530

## INDEPENDENT RELEASE PORTION FOR AIR BRAKE CONTROL VALVES

Mark Pickert, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application December 30, 1949, Serial No. 135,936
12 Claims. (Cl. 303—26)



1. An air brake system comprising system means operable on the automatic principle to develop a brake controlling pressure; system means operable on the straight-air principle to develop a brake controlling pressure; manual means operable selectively to actuate either of said system means to develop a controlling pressure; a relay device for applying and releasing brakes and capable of responding to a controlling pressure when so developed; switch valve means responsive to the development of a controlling pressure by either of said system means to subject said relay means to the controlling pressure so developed by that system means and isolate the relay from the other system means; independent manually controlled means for exhausting said controlling pressure; and timed limiting valve means operable to intercept exhaust of said controlling pressure, the last named means being functionally so related to said independent manually controlled means as to be rendered selectively inactive or active by manipulation of the latter, whereby releases effected by said manually controlled means may be caused to be partial or complete.

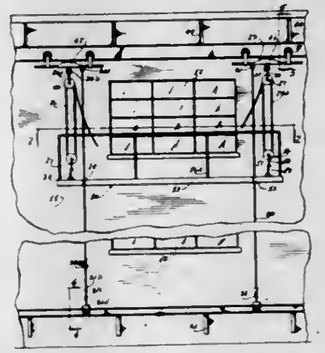
2,645,531

## ROLLING SCAFFOLD

Nelson H. Rector, Atlanta, Ga.

Application April 23, 1951, Serial No. 222,333
4 Claims. (Cl. 304—14)

1. In combination with upper and lower tracks secured to a vertical wall, a rolling scaffold device comprising a movable foot platform adapted for horizontal movement along said wall, two lower pulley members on said platform, two upper travellers for rolling along the upper tracks, two upper pulley members on said travellers, a cable for each pair of lower and upper pulleys to raise and lower said platform, at least one snubber element on said platform and having a projectible part for frictionally engaging the wall to prevent movement of the platform horizontally across the wall, and means for preventing movement of the platform at least in a horizontal plane away from the wall for holding the projectible part of the snubber element against the wall when the projectible part is projected and comprising a steadying cable associated with



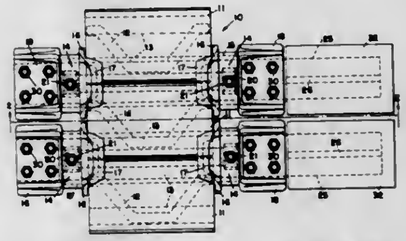
each of said travellers, each steadying cable having its upper end secured to its traveller, and engaging said platform, a resilient element on the lower end of each steadying cable, and a lower traveller associated with each steadying cable and captively engaged with said lower track for rolling movement thereover in a horizontal plane, each of said resilient elements being secured to its lower traveller, whereby each traveller is held in captive engagement with the lower track to provide a movable anchoring element for each steadying cable.

2,645,532

## GROUSER

Theodore J. Hollenkamp, Detroit, Mich.

Application June 14, 1945, Serial No. 599,499
5 Claims. (Cl. 305—10)
(Granted under Title 35, U. S. Code (1952), sec. 266)

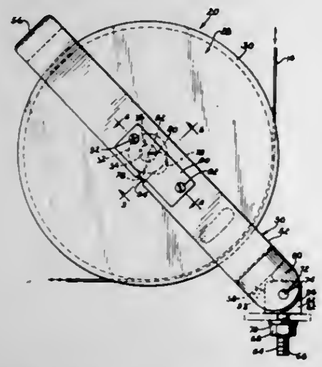


1. A grouser for a track of the type having a plurality of track blocks and a plurality of transversely aligned pairs of end connectors interconnecting the ends of adjacent track blocks, comprising a ground engaging member extending transversely the entire width of said track, said member overlying a pair of transversely aligned end connectors and extending across and spaced from the outer sides of the respective track blocks

between said pair of end connectors, said member having a portion thereof extending substantially beyond one side of said track and beyond one of said end connectors to provide additional flotation, and means for detachably securing said member to said pair of end connectors.

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**2,645,533**
**SHEAVE ASSEMBLY**
**Theodore B. Appel, Jr., Champaign, Ill., assignor to The C. S. Johnson Company, Champaign, Ill., a corporation of Illinois**
**Application January 27, 1951, Serial No. 208,161**
**6 Claims. (Cl. 308—2)**

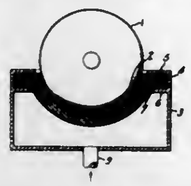


1. A sheave assembly comprising a sheave in the form of a flat, circular disk having a circumferential groove in the periphery thereof providing a tractional cable guide, two projections extending outwardly from the disk on opposite sides thereof in the medial regions of the disk, each of said projections being provided with a knife edge coincident with the transverse axis of the disk, a cage-like supporting bracket, said bracket including a pair of side members adapted to straddle the sides of the disk, end members maintaining said side members in spaced relationship, each of said side members being provided with a slot in the medial region thereof extending inwardly from one side thereof, there being an opening in each side member communicating with its respective slot, said openings being in substantial alinement, there being a recess formed in the side of each opening providing a knife edge support for one of said knife edges, the overall axial extent of said projections being greater than the distance between the opposed surfaces of said side members, and said slots serving as guideways to permit insertion of said projections into said openings to permit registry and contact between said knife edges and said knife edge supports.

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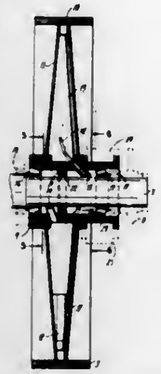
**2,645,534**
**PRESSURIZED BEARING**
**Howard I. Becker, Rexford, N. Y., assignor to General Electric Company, a corporation of New York**
**Application February 10, 1950, Serial No. 143,547**
**1 Claim. (Cl. 308—9)**

An air bearing comprising a bearing housing formed to provide a chamber having an apertured wall, a bearing liner formed of porous oil free graphitized carbon and having an outer supporting lip surrounding the bearing engaging portion of the bearing liner, said liner positioned so as to cover said aperture to close said chamber and the entire outer surface of the bearing engaging portion of the liner being exposed to the atmosphere of said chamber, and means for supplying air under pressure to said chamber, whereby escape of air through said porous liner is substantially uniformly distributed over said bearing surface.



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**2,645,535**
**BEARING AND MEANS FOR LUBRICATING SAME**
**James C. Bartch, Flat River, and George W. Couch, Rivermines, Mo.**
**Application March 18, 1950, Serial No. 150,471**
**14 Claims. (Cl. 308—117)**

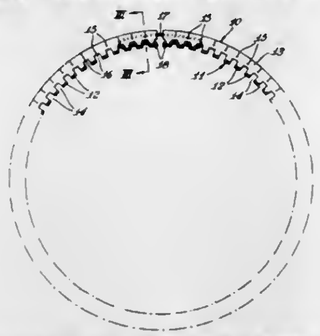


1. In an apparatus of the character described, a ground wheel having a rim and a hub, said hub being provided with a journal portion adapted for cooperation with a bearing, a web structure connecting said rim and said hub and forming an annular reservoir adapted to contain a pool of liquid lubricant in the bottom thereof as said wheel rolls, and a conveyor mounted within said web structure operable upon rolling of said wheel to transfer lubricant from said pool to lubricate said journal portion.

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**2,645,536**
**FLEXIBLE PISTON RING**
**Herbert F. Prasse, Gates Mills, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application January 24, 1950, Serial No. 140,300**
**7 Claims. (Cl. 309—45)**

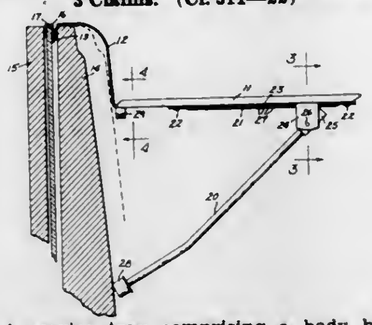
6. An oil control piston ring having an annular web with parallel spaced annular flanges extending outwardly from opposite sides thereof, said web having a plurality of radially extending circumferentially spaced oil return slots formed therein and extending partially into said flanges from the inner sides thereof, and a plurality of vertically registering circumferentially spaced slits extending radially into said flanges from the outer sides thereof toward said slots in alignment therewith but terminating short of said slots.



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**2,645,537**
**DETACHABLE SERVICE TRAY FOR AUTOMOBILE DOORS**
**William J. Brath and Leonard J. Mayer, Portland, Oreg.**
**Application December 20, 1948, Serial No. 66,208**
**3 Claims. (Cl. 311—22)**

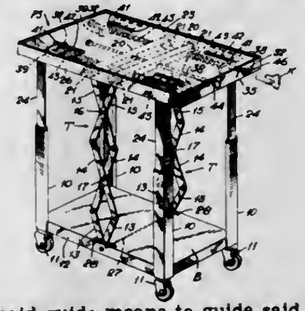


1. A service tray comprising a body having essentially the outline of an isosceles trapezoid, the narrow end of said body being bent upwardly, then outwardly, then downwardly, to provide a hook portion for engagement with an automobile window ledge and the major portion of said body having its edge bent upwardly to provide an outwardly widening tray, a bar secured to the lower surface of said tray along the longitudinal axis thereof, a slide movable longitudinally of said bar, and a supporting leg pivotally mounted on said slide beneath said bar at sufficient distance to permit said leg to swing in a vertical plane with the free end thereof extending beneath said hook portion, said bar being secured to said tray at its ends only and being spaced therefrom throughout the major portion of its length, and said slide comprising a U-shaped strap having its bight portion lying in the space between said bar and said tray and its arms extending below said bar.

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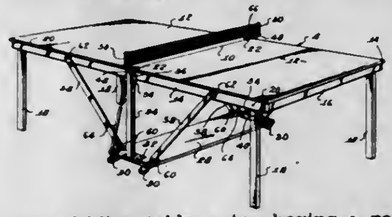
**2,645,538**
**POSTING STAND**
**Samuel Segal, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts**
**Application December 30, 1948, Serial No. 68,310**
**11 Claims. (Cl. 311—39)**

11. In a posting stand, a base, a platform, means carried by the base and platform for slidably guiding the latter towards or away from said base, shiftable bars arranged transversely of said platform, guide means in each of said bars, roller means carried by said bars and riding against said platform, toggle means movably interposed between said bars and base, rods extending longitudinally of said platform and engaging said guide means to guide said bars longitudinally of said platform, abutment means positioned in the horizontal plane of said bars and spaced there from longitudinally relative to said platform, and spring means interposed between said abutment means and bars to facilitate the movement of the platform away from said base.



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**2,645,539**
**FOLDING TABLE, TENNIS TABLE, OR THE LIKE**
**Daniel T. Thompson, Los Angeles, Calif.**
**Application May 6, 1950, Serial No. 160,550**
**3 Claims. (Cl. 311—92)**



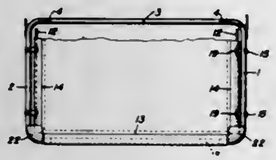
1. In a folding table, a top having a pair of substantially equally sized sections, the sections being joined by a hinge whose axis lies transversely of the top, a base member supporting the table on the floor when the table is collapsed, an upright extending between the base and the top at a point adjacent the hinged connection and releasably engageable with the top, legs supporting the outer end portions of the top, a pair of braces pivotally connected to the base member at points spaced longitudinally of the table, said braces diverging upwardly from the base and having fixed pivotal connections respectively with each of the top sections at points intermediate the hinge and the outer ends of the top sections, to provide approximately balanced support for the sections when they are collapsed toward each other.

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**2,645,540**
**DRESSING TABLE FOR INFANTS' BATH STANDS**
**Edward C. Trimble and William C. Baxter, Rochester, N. Y., assignors to Trimble, Inc., Rochester, N. Y., a corporation of New York**
**Application May 7, 1951, Serial No. 224,900**
**5 Claims. (Cl. 311—106)**

1. The combination with a supporting frame comprising one-piece metallic U-shaped end

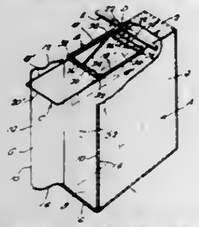
members of tubular cross-section, of side rails consisting of wooden dowels removably telescoped within each of said end members, a fabric element extending between said end members and side rails and comprising an envelope, a layer of stiffening material within the envelope, a layer of padding between the stiffening layer and the top of the envelope, the envelope having hems at



its side edges through which said side rails are threaded and hems at its ends, metal rods threaded in said hems at the ends, and metal clips removably connecting said metal rods near the ends thereof with the adjacent portions of said end members and acting to stretch the fabric element between the end members and to maintain the end members engaged with said side rails.

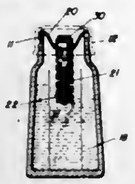
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**2,645,541**
**GARMENT BAG HAVING AN EXTENSIBLE TOP SUPPORT**
**Jacob J. Mintz, Somerville, and Frederick L. Muller, Westfield, N. J., assignors, by mesne assignments, to Klear-Vu Corporation, New York, N. Y., a corporation of New Jersey**
**Application February 19, 1949, Serial No. 77,364**
**11 Claims. (Cl. 312—6)**



8. A top support for a garment bag, said top support comprising a first frame adapted to support the top of a garment bag in its desired configuration and having hooks projecting upwardly therefrom at a point substantially midway of its length, said hooks being adapted to extend through the fabric of a garment bag and be received over a support rod, an arm projecting upwardly from said first frame and adapted to extend through the covering of a garment bag, a grip on said arm adapted to be engaged with said support rod in non-slipping relationship therewith, and a second frame of substantially the same size as said first frame and having a cross-bar on which coat hangers may be hung at a point substantially midway of its length, said second frame being slidably secured to said first frame so as to be movable in the direction of the length of said first frame between a housed position with respect to said first frame, said cross-bar then being adjacent said hooks, and an extended position in which said cross-bar is close to the end of said first frame, the cooperation of said grip with said support rod preventing canting of said top support when said second frame is in extended position.

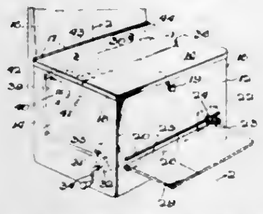
**2,645,542**
**CONDIMENT DRIER**
**Louis E. Munch, Reisterstown, Md., assignor to James G. Saffell**
**Application January 30, 1950, Serial No. 141,285**
**2 Claims. (Cl. 312—31.1)**



1. In combination with a condiment shaker having a neck and a body, of means for dehydrating the contents of the shaker, said means comprising a cylindrical cartridge extending from the neck to a point well within the body, said cartridge having a series of vertically spaced-apart and staggered slits in its walls, said cartridge containing a dehydrating substance, means for positively securing said cartridge to the shaker, and including a wire loop extending through the upper slits of the cartridge and having extensions resting on the edge of the neck of the shaker, whereby said wire loop and shaker are removable as a unit.

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**2,645,543**
**DISPENSER FOR ROLLS OF COTTON**
**Pat V. Mancini, Lakewood, N. J.**
**Application December 19, 1951, Serial No. 262,424**
**3 Claims. (Cl. 312—39)**



1. In a box for dispensing rolled sheet material, a trough for supporting a roll of sheet material, said trough comprising a roll conforming interior, resiliently yieldable friction brake means formed from the trough body at each end, an axle stub shaft carried by each brake means, said shafts each extending through an opposite side wall of the box, and said friction brake means each engaging with their adjacent side wall of the box, said trough having a yieldable resilient curved tongue adapted to grip the said roll of sheet material along its forward edge and having a downwardly curved bead along its rear edge.

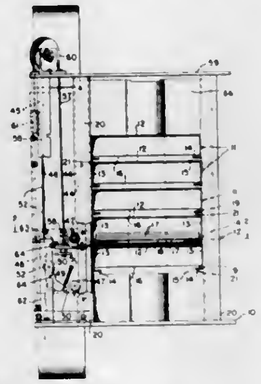
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**2,645,544**
**VENDING APPARATUS**
**Alfonso M. Simon, Jr., New York, N. Y., and Arthur P. Gluck, Paterson, N. J.; said Gluck assignor to said Simon**
**Application September 20, 1950, Serial No. 185,736**
**15 Claims. (Cl. 312—52)**

1. In vending apparatus of the character described, a plurality of parallelly disposed box-like magazines arranged in a column, each of said magazines adapted to support a stack of envelopes therein, said magazines each having an



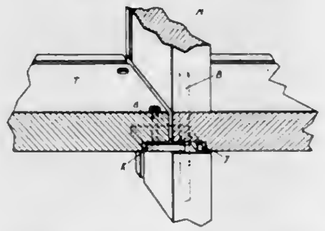
opening formed in a corresponding side thereof in register with the openings in the other magazines, said opening extending through an adjacent side of the magazine and connected to a slotted outlet formed in said adjacent side, and common means for ejecting an envelope from a



selected magazine, including a member reciprocable in the space adjacent the opening in the selected magazine, and a finger on said member adapted to extend adjacent the opening of said selected magazine and adapted to engage the envelope facing said opening intermediate its flap and its body portion.

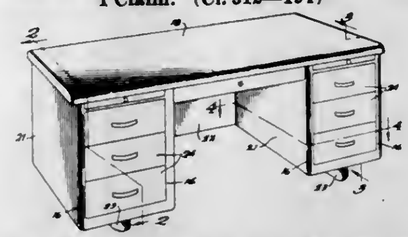
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**2,645,545**
**ARTICLE OF FURNITURE**
**Didier Rozaffy, Paris, France**
**Application May 10, 1950, Serial No. 161,070**
**In France May 20, 1949**
**2 Claims. (Cl. 312—108)**



1. A knock down sectional bookcase comprising adjacent coupled sections, horizontal shelving in one section, a first transverse upright below said shelving and supporting one end edge portion of said shelving on the upper edge of said first upright, a second upright supported by said end edge portion of said shelving and extending upwardly from the latter in the plane of said first upright, a vertical dowel pin interlocking said first and second uprights and said shelving, a recess in a face of said end edge portion of said shelving and extending around a portion of said dowel pin, horizontal shelving in the second section in alignment with said first mentioned horizontal shelving, a second recess in the edge of said second mentioned shelving in alignment with said first mentioned recess, a hook member secured in said second recess and extending into said first mentioned recess with its hook portion around said dowel pin.

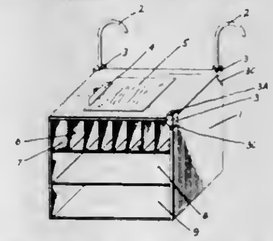
**2,645,546**
**DESK**
**Jack W. Stringe, Oak Park, Ill.**
**Application June 10, 1950, Serial No. 167,285**
**1 Claim. (Cl. 312—194)**



In a desk, a plurality of solid, wooden beams forming a perimetric top frame having front, rear, and side members, said beam parts being provided with interlocking tongue and groove joints, and at least the side and rear members of said beams being provided with recesses extending upwardly from the bottom thereof, said recesses lying in the outer portions of said beams and at a uniformly spaced distance from the edges thereof, solid, wooden posts suppporting said top frame secured to the underside of said beams inwardly from said recesses and having vertically-extending notches therein adapted to receive the edges of panels, said posts having their tops bearing directly against the underside of said beams inwardly of said recesses, and smooth, continuous side panels secured to said posts with their outer surfaces in alignment with the outer faces of said posts and extending above said posts and into the recesses of said beams, whereby a sturdy and attractive desk can be constructed of relatively few parts.

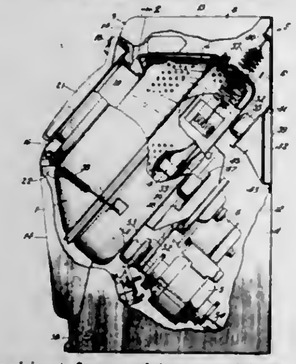
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**2,645,547**
**CABINET DESK AND SUPPORT THEREFOR**
**Earle Adare Channer, Jr., Larchmont, N. Y.**
**Application January 13, 1949, Serial No. 70,623**
**1 Claim. (Cl. 312—245)**



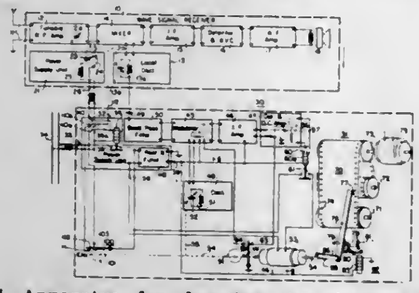
A cabinet desk in the form of a rectilinear parallelepiped, having one open vertical side, supporting means for said cabinet comprising a notched plate attached to one upper corner of the cabinet with said plate parallel to and spaced from the top of the cabinet, a hook having a reduced portion and an enlargement or head portion on one end, said reduced portion being engageable in said notch to position said head portion between said plate and the top of the cabinet, a pair of plates similar to said aforesaid plate being similarly attached, respectively, to two other corners of said cabinet adjacent said first mentioned corner, a single second hook, identical in construction to said first mentioned hook, selectively engageable with one or the other of said pair of plates, and all of said hooks being rotatable with respect to their respectively associated plate.

2,645,548
**CABINET STRUCTURE FOR WASHING MACHINES**
Morton A. Kreitchman, Irvington, and Walter J. Olson, Bloomfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application May 21, 1948, Serial No. 28,473
2 Claims. (Cl. 312—351)



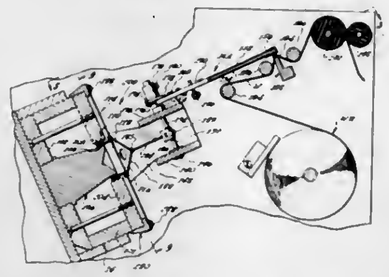
1. A cabinet for washing machines comprising a body portion having a rear panel and two side panels and supporting means carried at least in part by said rear and said side panels, said supporting means presenting a plurality of fixed parallel plane bearing surfaces inclined at an angle with respect to said rear panel, one adjacent each of said panels, the bearing surface closest to the rear panel being at an elevation higher than the other bearing surfaces and comprising a bracket mounted on the rear panel, one side of said bracket serving as one of said bearing surfaces.

2,645,549
**DEVICE FOR RECORDING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS**
George H. Bateman, Chicago, and Fred Krahulec, Skokie, Ill., assignors to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application June 18, 1948, Serial No. 33,798
10 Claims. (Cl. 346—37)



1. Apparatus for denoting the channels to which a wave signal receiver is selectively tuned, comprising a recorder including means for moving a record receiving element, means responsive to the tuning condition of said receiver for producing a record on said element comprising a movable stylus, a motor drivingly connected to said stylus, an energizing circuit for said motor, control means responsive to a predetermined condition of said receiver for rendering said energizing circuit effective, and means connected with said energizing circuit for maintaining said motor energized following deenergization thereof in response to operation of said control means to move said stylus to a predetermined position relative to said record receiving element thereby to indicate normal deenergization of said motor.

2,645,550
**MULTIPLE-LEAD ELECTROCARDIOGRAPH RECORDER**
George Gorham, New York, N. Y., assignor, by mesne assignments, to Technicon Cardiograph Corporation, New York, N. Y.
Application July 22, 1947, Serial No. 762,613
17 Claims. (Cl. 346—49)

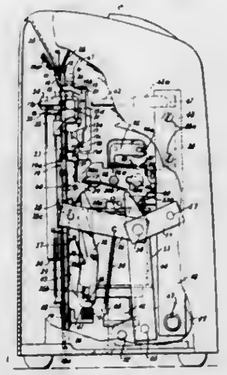


1. In an electro-cardiograph, a multi-lead recorder comprising means for moving a sheet of flexible recording material in the direction of its length past a marking station, a plurality of movable marking elements mounted for movement laterally of said sheet, and means for operating said elements in unison, said marking elements being disposed in laterally spaced relation and having sheet marking portions positioned for marking said sheet at laterally spaced points whereby to form individual graphs having the same time relation on said sheet during the operation of said marking elements in unison while said sheet is moved, said means for operating said marking elements comprising electro-magnetic means including movable driving coils having individual windings, switching means for connecting said windings to and disconnecting them from electrical means for energizing them, electro-magnet means for closing said switching means and biased to open said switching means, and means for interrupting the circuit through the winding of said last mentioned electro-magnetic means to open the circuits of said driving coils in the event of over-excursion of any one of said marking elements, said interrupting means including an operating mechanism having parts disposed laterally of said marking elements in position to be engaged by said marking elements, respectively, when over-excursion occurs.

2,645,551
**TIME RECORDING MACHINE**
Alfred L. Sprecker, Freeport, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 1, 1949, Serial No. 96,472
9 Claims. (Cl. 346—85)

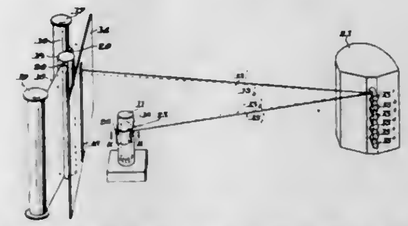
1. In a time recording machine for attendance cards the combination of means for receiving a card inserted thereinto and for guiding it along a predetermined path, printing means disposed along the said path, perforating means disposed along the said path coacting with the said printing means, means for simultaneously operating the said printing means and perforating means, means disposed in the said path for engaging a





perforation previously made in the said card for relocating the card in said path, means under control of the said engaging means for actuating the said operating means, and means interposed in the said path operable by the said card for disabling the said engaging means.

2,645,552
**TRACE IDENTIFIER FOR OPTICAL OSCILLOGRAPHS**
Harry T. Stevinson, Arnprior, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a body corporate of Canada
Application September 4, 1951, Serial No. 245,065
8 Claims. (Cl. 346—109)



5. An optical oscillograph comprising a light source, a record surface, a light-reflecting mirror-motor positioned to receive light rays directly from said source along a given axis and to reflect an image of said source onto said surface, and a light-reflecting mirror positioned to receive light directly from said source and to reflect an image of said source onto said mirror-motor along an axis displaced with respect to said given axis, whereby two spaced images of said source are reflected from said mirror-motor onto said surface.

## CHEMICAL

2,645,553
**METHOD OF COLORING WOVEN GLASS FIBERS**
Charles L. Lawsberg, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 29, 1948, Serial No. 68,051
2 Claims. (Cl. 8—8)

1. The process of coloring a woven glass fabric which consists of treating for about 1 hour said fabric at a temperature in the range 75° C. to the boiling point with an aqueous solution containing an alkaline material, and containing a lignin sulphonic acid, said solution having a pH in the range 9 to 13 and treating said fabric with a dyestuff not requiring a chemical reduction for application.

2,645,554
**INSERTING A CLOTH INSERT INTO A RAYON CAKE BEFORE FLUID TREATMENT**
Robert V. De Vault and Ray J. Echerd, Jr., Asheville, N. C., assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware
Application July 27, 1949, Serial No. 107,128
1 Claim. (Cl. 8—155.1)

In a method of aftertreating freshly spun cakes of rayon by radial liquid flow of aftertreatment fluids under pressure, the steps which consist essentially of covering exclusively the inside surface, the top and bottom inside edges and a portion of the top and bottom surface with a liquid permeable expansible cloth insert; applying substantially radially outward tension to the outside edges of the insert to impose tension on the inside surface and the inside edges of the cake; fluid treating and drying the cake with the insert in

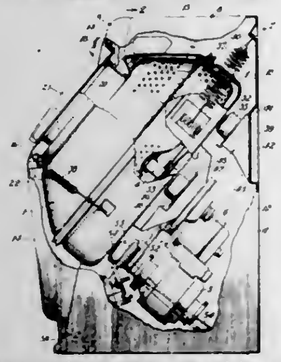


place; locking the insert against further expansion during the latter stages of unwinding and unwinding the cake.

2,645,555
**MANUFACTURE AND PRODUCTION OF ARTIFICIAL THREADS FROM VISCOSE**
John Wharton and Ronald Bertram Hall, Coventry, England, assignors to Courtaulds Limited, London, England, a British company
Application January 27, 1949, Serial No. 73,136
In Great Britain February 18, 1948
11 Claims. (Cl. 18—54)

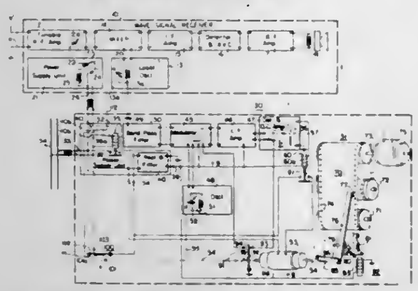
1. A process for the production of artificial threads from viscose by extruding viscose into a coagulating bath containing sulphuric acid and at least one metallic sulphate including as the first step after the thread leaves the coagulating bath, a step of treating the thread with a solu-

2,645,548
**CABINET STRUCTURE FOR WASHING MACHINES**
Morton A. Kreitchman, Irvington, and Walter J. Olson, Bloomfield, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application May 21, 1948, Serial No. 28,473
2 Claims. (Cl. 312—351)



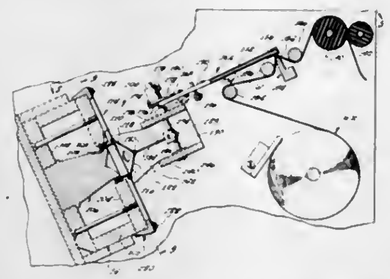
1. A cabinet for washing machines comprising a body portion having a rear panel and two side panels and supporting means carried at least in part by said rear and said side panels, said supporting means presenting a plurality of fixed parallel plane bearing surfaces inclined at an angle with respect to said rear panel, one adjacent each of said panels, the bearing surface closest to the rear panel being at an elevation higher than the other bearing surfaces and comprising a bracket mounted on the rear panel, one side of said bracket serving as one of said bearing surfaces.

2,645,549
**DEVICE FOR RECORDING THE LISTENING HABITS OF WAVE SIGNAL RECEIVER USERS**
George H. Bateman, Chicago, and Fred Krahulec, Skokie, Ill., assignors to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application June 18, 1948, Serial No. 33,798
10 Claims. (Cl. 346—37)



1. Apparatus for denoting the channels to which a wave signal receiver is selectively tuned, comprising a recorder including means for moving a record receiving element, means responsive to the tuning condition of said receiver for producing a record on said element comprising a movable stylus, a motor drivingly connected to said stylus, an energizing circuit for said motor, control means responsive to a predetermined condition of said receiver for rendering said energizing circuit effective, and means connected with said energizing circuit for maintaining said motor energized following deenergization thereof in response to operation of said control means to move said stylus to a predetermined position relative to said record receiving element thereby to indicate normal deenergization of said motor.

2,645,550
**MULTIPLE-LEAD ELECTROCARDIOGRAPH RECORDER**
George Gorham, New York, N. Y., assignor, by mesne assignments, to Technicon Cardiograph Corporation, New York, N. Y.
Application July 22, 1947, Serial No. 762,613
17 Claims. (Cl. 346—49)

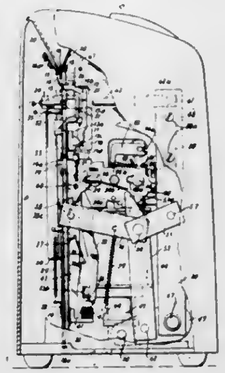


1. In an electro-cardiograph, a multi-lead recorder comprising means for moving a sheet of flexible recording material in the direction of its length past a marking station, a plurality of movable marking elements mounted for movement laterally of said sheet, and means for operating said elements in unison, said marking elements being disposed in laterally spaced relation and having sheet marking portions positioned for marking said sheet at laterally spaced points whereby to form individual graphs having the same time relation on said sheet during the operation of said marking elements in unison while said sheet is moved, said means for operating said marking elements comprising electro-magnetic means including movable driving coils having individual windings, switching means for connecting said windings to and disconnecting them from electrical means for energizing them, electro-magnet means for closing said switching means and biased to open said switching means, and means for interrupting the circuit through the winding of said last mentioned electro-magnetic means to open the circuits of said driving coils in the event of over-excursion of any one of said marking elements, said interrupting means including an operating mechanism having parts disposed laterally of said marking elements in position to be engaged by said marking elements, respectively, when over-excursion occurs.

2,645,551
**TIME RECORDING MACHINE**
Alfred L. Sprecker, Freeport, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 1, 1949, Serial No. 96,472
9 Claims. (Cl. 346—85)

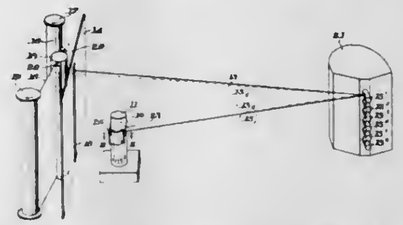
1. In a time recording machine for attendance cards the combination of means for receiving a card inserted thereinto and for guiding it along a predetermined path, printing means disposed along the said path, perforating means disposed along the said path coacting with the said printing means, means for simultaneously operating the said printing means and perforating means, means disposed in the said path for engaging a





perforation previously made in the said card for relocating the card in said path, means under control of the said engaging means for actuating the said operating means, and means interposed in the said path operable by the said card for disabling the said engaging means.

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5. An optical oscillograph comprising a light source, a record surface, a light-reflecting mirror-motor positioned to receive light rays directly from said source along a given axis and to reflect an image of said source onto said surface, and a light-reflecting mirror positioned to receive light directly from said source and to reflect an image of said source onto said mirror-motor along an axis displaced with respect to said given axis, whereby two spaced images of said source are reflected from said mirror-motor onto said surface.

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**INSERTING A CLOTH INSERT INTO A RAYON CAKE BEFORE FLUID TREATMENT**
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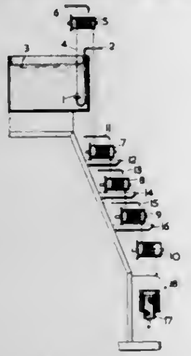


place; locking the insert against further expansion during the latter stages of unwinding and unwinding the cake.

2,645,555
**MANUFACTURE AND PRODUCTION OF ARTIFICIAL THREADS FROM VISCOSE**
John Wharton and Ronald Bertram Hall, Coventry, England, assignors to Courtaulds Limited, London, England, a British company
Application January 27, 1949, Serial No. 73,136
In Great Britain February 18, 1948
11 Claims. (Cl. 18—54)

1. A process for the production of artificial threads from viscose by extruding viscose into a coagulating bath containing sulphuric acid and at least one metallic sulphate including as the first step after the thread leaves the coagulating bath, a step of treating the thread with a solu-

tion consisting of an oil selected from the group consisting of mineral oils, vegetable oils and ani-



mal oils and a cation-active compound soluble in the oil.

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2,645,556

**PRODUCTION OF ARTIFICIAL FILAMENTS**

**Leslie Arthur Bashford and George Doubleday, Coventry, England, assignors to Courtaulds Limited, London, England, a British company**

**No Drawing. Application June 4, 1952, Serial No. 291,804. In Great Britain July 25, 1951**

**5 Claims. (Cl. 18—54)**

1. A process for the production of polyacrylonitrile threads which includes the step of extruding a solution of polyacrylonitrile in dimethyl formamide into an aqueous coagulating bath containing potassium acetate in a concentration of from 20 per cent by weight up to saturation point.

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2,645,557

**STERILIZING APPARATUS AND METHOD**

**Irving R. Lewis, Metuchen, N. J., and Douglas M. McBean, Rochester, N. Y., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**

**Application June 30, 1949, Serial No. 102,196**

**2 Claims. (Cl. 21—2)**



1. The method of delivering cylindrical containers in a sterile condition to a sterile filling and sealing zone that comprises advancing a co-axially arranged series of cylindrical containers successively through a heating zone and a cooling zone registering with said sterile filling and sealing zone while providing support for each of said articles along a line of contact extending longitudinally thereof which is continuously shifting about the cylindrical periphery of said article.

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2,645,558

**LINING FOR CENTRIFUGAL IRON CASTING MOLDS**

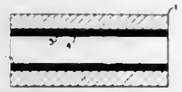
**Josef Burchartz, Detmold, Germany**

**Application May 10, 1950, Serial No. 161,163**

**In Germany May 14, 1949**

**4 Claims. (Cl. 22—189)**

1. A method of protecting the inner face of centrifugal casting molds comprising covering individual iron chips with the suspension of a pulverulent inorganic refractory in a liquid carrier, drying the chips to form a coating thereon,



applying the coated chips to the inner mold wall and holding the same in position at said wall by the centrifugal rotation of the mold.

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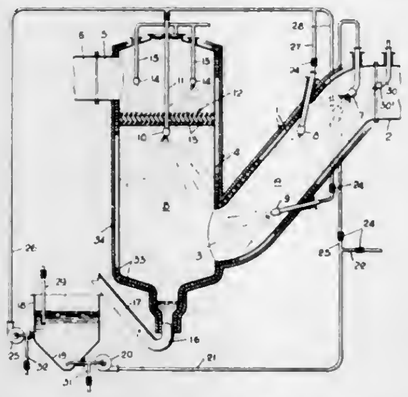
2,645,559

**AMMONIUM SULFATE PRODUCTION**

**Carl Otto, Manhasset, N. Y.**

**Application March 23, 1949, Serial No. 82,959**

**7 Claims. (Cl. 23—119)**



1. The method of producing ammonium sulphate from gas having a small ammonia content, which consists in passing the gas downward through a primary spray zone and then upward through a secondary spray zone having a lower portion in communication with the lower end of the primary spray zone, each of said zones being substantially unobstructed, dispersing saturated ammonium sulphate liquor having a small sulphuric acid content in the upper portion of each zone and thereby supersaturating said liquor, and removing the liquor sprayed into said zones from the lower end of said secondary zone.

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2,645,560

**PRODUCTION OF SULFATE OF AMMONIA**

**Carl Otto, Manhasset, N. Y.**

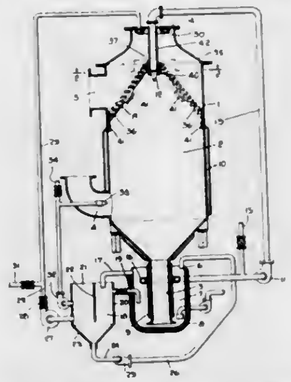
**Application March 18, 1950, Serial No. 150,410**

**3 Claims. (Cl. 23—119)**

2. In removing ammonia from a stream of coke oven gas flowing upwardly through a substantially unobstructed scrubbing space in a scrubber which encloses said space and has a lower gas inlet above the liquid level and an upper gas outlet from said space, the method which consists in spraying ammonium sulphate solution with entrained crystals containing sulphuric acid into the ammonia containing gas in said scrubber space so that the gas only encounters spray of ammonium sulphate solution, separating said entrained solution by passing the gas through a baffle after it is passed through the solution spray, said baffle being washed by hot water and ammonium sulphate solution, allowing the solution to descend after contact with the gas into a crystallizing bottom portion



of said space, withdrawing solution containing fine crystals from the upper part of said crystal-



lizing space portion, adding sulphuric acid thereto and returning said solution to the scrubbing space as said spray.

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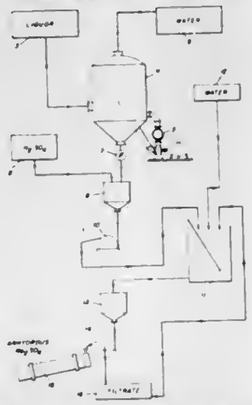
2,645,561

**SODIUM SULFATE RECOVERY**

**Lawrence Louis Malm, Rocky River, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware**

**Application November 23, 1948, Serial No. 61,612**

**3 Claims. (Cl. 23—121)**



1. In the process for treating a viscose rayon, sulfuric acid coagulating bath liquor system containing excess sodium sulfate and water and a deficiency of sulfuric acid, for the reclamation of said excess sodium sulfate as anhydrous sodium sulfate and the regeneration of bath constituents therein, said bath liquor comprising approximately, by weight, 10% to 34% dissolved sodium sulfate, 4% to 17% sulfuric acid and less than about 10% of other dissolved metallic salts; the steps comprising, evaporating from said liquor not more than about 120% of said excess water calculated to be present in said entire system; maintaining in said evaporated liquor a sodium sulfate to sulfuric acid ratio of at least about two to one; precipitating from said evaporated liquor a portion of said excess sodium sulfate as anhydrous sodium sulfate; maintaining the temperature of said evaporated liquor above about 32° C. during said precipitation step; separating substantially all of the precipitated material from its mother liquor; adding relatively concentrated sulfuric acid to said mother liquor in a quantity which is sufficient to precipitate an acid sulfate of sodium but is not more than about the calculated sulfuric acid deficiency of said entire system; precipitating an acid sulfate of sodium from said acidified mother liquor; separating substantially all of the acid-precipitated material from said acidified mother liquor; combining at least part of said separated, initially precipitated material with at least part of said separated, acid-precipitated material; admixing an aqueous solution with said combined, precipitated materials until the undissolved materials remaining constitute essentially anhydrous sodium sulfate, said aqueous solution having a sodium sulfate to sulfuric acid ratio of at least about two to one and being substantially saturated with respect to anhydrous sodium sulfate; separating said remaining anhydrous sodium sulfate from its mother liquor; and thereafter repeating the cycle.

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2,645,562

**PRODUCTION OF A GASEOUS PETROLEUM FRACTION RICH IN HYDROGEN**

**John Norman Haresnape and Stephen Hesling, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation**

**No Drawing. Application January 21, 1948, Serial No. 3,563. In Great Britain January 10, 1947**

**Section 1, Public Law 690, August 8, 1946**

**Patent expires January 10, 1967**

**5 Claims. (Cl. 23—212)**

1. A process for the production of a gaseous petroleum fraction rich in hydrogen which comprises cracking a petroleum fraction containing substantially no material boiling below the gas oil range in the presence of a catalyst consisting essentially of a montmorillonite clay which has been heated to a temperature between about 500° C. and 700° C. to remove substantially completely the combined hydroxyl groups without causing any physical disruption of the clay and from which clay, as it is employed in the cracking step, the combined hydroxyl groups are substantially completely absent, said temperature being in inverse relationship to the iron oxide content present in said montmorillonite clay such that when the iron oxide content is less than 1.5%, the temperature will be about 700° C., and when the iron oxide content is more than 7%, the temperature will be about 500° C.; and, separating a gaseous petroleum fraction rich in hydrogen from the products of the cracking operation.

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2,645,563

**METHOD OF DETERMINING THE END POINT OF A TITRATION**

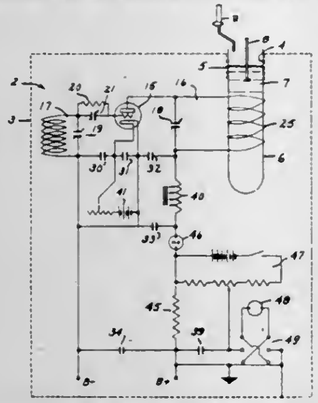
**Frederick W. Jensen, College Station, Tex., assignor to Texas A. & M. Research Foundation, College Station, Tex., a private corporation**

**Application December 6, 1946, Serial No. 714,618**

**6 Claims. (Cl. 23—230)**

1. The method of determining the end-point of a titration when a solution is titrated against a reagent wherein one of said solution and said reagent is of known concentration while the other is of unknown concentration comprising the steps of, subjecting to a high frequency electromagnetic field a measured quantity of the solution, adding to such solution the reagent while such solution and the added reagent are maintained within said field, and continuously and instrumentally measuring with an electrical instrument the energy input to the resulting solu-

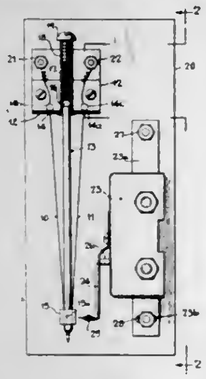
tion during such adding step to determine a point at which an abrupt reversal of the amount of current flowing in the measuring instrument is obtained as an indication that an end-point



in the titration is reached measuring the amount of reagent added to the solution at said end-point, whereby the unknown concentration can be calculated.

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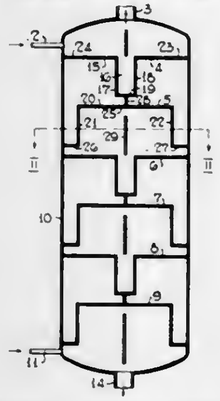
**2,645,564**
**GAS DETECTOR APPARATUS**
**Carter Tiffany, Englewood, N. J.**
**Application April 26, 1950, Serial No. 158,313**
**7 Claims. (Cl. 23—255)**



2. Apparatus comprising in combination, a base member; a pair of thermo-responsive expansible wire elements mounted with one extremity of each thereof secured to said base member at separate locations whereby a straight base line exists between such locations; a signal arm having the other extremities of said wire elements secured adjacent one extremity of such arm; means for mounting the opposite extremity of said arm for pivotal and axial movement in the region of said base member substantially at the mid-point of such base line, means for resiliently urging said arm axially for maintaining said wire elements under tension, said wire elements, arm and base line defining two adjacent acute substantially right triangles having adjacent apices and having a common side comprising said signal arm; one of said wire elements being constructed to include a catalytic element comprising finely divided platinum for heating same in response to the occurrence of a hydrocarbon vapor in the presence of oxygen whereby an expansion differential may occur between such elements in the presence of such gases, said arm being angularly shiftable in response to such expansion differential; and signal means actuatable in response to such angular movement of such signal arm.

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**2,645,565**
**LIQUID-LIQUID EXTRACTION TOWER**
**Robert S. Wood, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application April 22, 1950, Serial No. 157,426**
**5 Claims. (Cl. 23—270.5)**



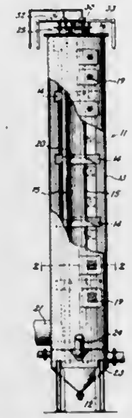
1. An extraction apparatus comprising a shell having inlet and outlet conduits, a first set of vertically spaced trays mounted transversely in the shell, each tray comprising in combination a first horizontal perforated plate, a second horizontal perforated plate spaced from and on the same level as the first plate, a third horizontal perforated plate disposed below and between said first and said second plates, a pair of spaced vertical plates connecting said first and second horizontal plates with said third horizontal plate, a second set of vertically spaced trays alternately disposed with respect to said first set of trays, each of said second set of trays comprising in combination a fourth horizontal perforated plate, a fifth horizontal perforated plate spaced from and on the same level as the fourth plate, a sixth horizontal perforated plate disposed above and between said fourth and fifth plates, a pair of spaced vertical plates connecting said fourth and fifth horizontal plates with said sixth horizontal plate and a vertical baffle connecting the underside of the third horizontal plate of the first set of trays with the sixth horizontal plate of the second set of trays.

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**2,645,566**
**HIGH-TEMPERATURE REACTOR**
**Kenneth W. Stookey, Cleveland, Ohio, assignor to The Gas Machinery Company, Cleveland, Ohio, a corporation of Ohio**
**Application December 12, 1949, Serial No. 132,553**
**7 Claims. (Cl. 23—277)**

1. Apparatus for continuously treating fluids at high temperatures comprising an elongated refractory lined shell, at least one tube disposed longitudinally therein and extending through the ends of said shell, inlet means for introducing fluids to be treated into one end of said at least one tube, exit means for withdrawing the treated fluids from the other end of said at least one tube, at least one refractory dividing wall extending transversely of said shell so as to divide said shell into a plurality of sections, at least one burner disposed in each of said sections for supplying heat to said at least one tube, said at least one dividing wall having at least one opening for passage therethrough of each of said

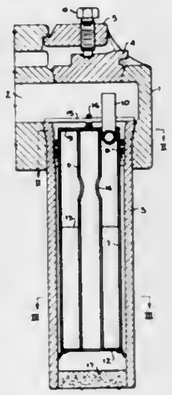




tubes, and having a port to afford free communication between adjacent sections and exit means for withdrawing the combustion gases derived from the operation of said burners from said shell at a point adjacent the exit means for withdrawing said treated fluids from said tube whereby the combustion gases may pass from one section to the adjacent section in a direction concurrent with the flow of fluids in said tube.

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**2,645,567**
**CATALYTIC REACTOR TUBE ASSEMBLY**
**Samuel B. Thomas, Long Beach, and Harry D. Evans, Concord, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware**
**Application May 24, 1952, Serial No. 289,714**
**4 Claims. (Cl. 23—288)**



1. A centrifugal separator-collector adapted for insertion in catalytic reaction tubes which comprises in combination, two concentric cylinders providing an annular space between them, a top closure sealing the ends of said cylinders, a bottom closure sealing the bottom of said annular space while leaving the bottom of the inner cylinder open, and an inlet conduit entering said annular space at the top thereof and extending substantially parallel to said top closure and to the walls of said cylinders, the said annular space being in direct communication with the space within the inner cylinder only through ports in the latter located intermediate the ends thereof.

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**2,645,568**
**JET FUEL CONTAINING t-BUTYL THIOPHENE**
**Jack M. Godsey, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**No Drawing. Application April 21, 1949, Serial No. 88,897**
**2 Claims. (Cl. 44—63)**

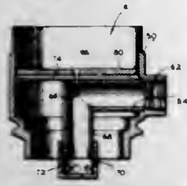
1. A liquid capable of being utilized as a fuel in jet combustion mechanisms, which consists essentially of a hydrocarbon distillate having an initial boiling point of about 100° F. and a final boiling point of about 600° F. and boiling substantially continuously between said points, and between about 0.1% and about 10.0% by weight of a t-butyl thiophene.

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**2,645,569**
**JET COMBUSTION FUEL**
**Jack M. Godsey, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**No Drawing. Application April 28, 1949, Serial No. 90,270**
**2 Claims. (Cl. 44—63)**

1. A liquid fuel capable of being utilized in jet combustion mechanisms, which comprises a hydrocarbon distillate having an initial boiling point of about 40° C. and a final boiling point of about 315° C. and boiling substantially continuously between said boiling points, and between about 0.1 per cent and about 2.0 per cent by weight of a fraction boiling at 120–125° C., at a pressure of 2 mm. of mercury, obtained by the process which comprises separately preheating sulfur and a $C_4$-hydrocarbon selected from the group consisting of normal butane, normal butenes, and butadienes, to temperatures such that combining said sulfur and said hydrocarbon will give a reaction mixture having a temperature falling within the range varying between about 450° C. and about 760° C.; mixing the preheated sulfur and the preheated hydrocarbon; reacting said preheated sulfur with said preheated hydrocarbon at a reaction temperature falling within the range varying between about 450° C. and about 760° C. for a period of time selected to minimize the yields of hydrocarbons containing less than four carbon atoms per molecule and carbon disulfide at said reaction temperature, to yield a mixture containing thiophene tar; immediately reducing the temperature of the mixture containing said thiophene tar to a temperature of less than about 450° C.; separating the thiophene tar from said mixture; subjecting said thiophene tar to vacuum distillation at temperatures varying between about 150° C. and about 250° C. and at a pressure of less than about 10 mm. of mercury, to produce a first distillate; and subjecting said first distillate to a vacuum fractionation at a pressure of less than about 10 mm. of mercury, to produce said fraction boiling at 120–125° C., at a pressure of 2 mm. of mercury.

**2,645,570**
## CARBURETOR ADAPTER
**Marion F. Anderson, Grand Island, Nebr.**
**Application March 13, 1950, Serial No. 149,264**
**3 Claims. (Cl. 48—180)**



1. A unitary adapter for use on motor vehicle engines to regulate the supply of air from the air filter to the carburetor when normally gaseous hydrocarbon fuel is being delivered to the carburetor of the engine in place of the ordinary normally liquid hydrocarbon fuel, comprising a tubular casing for conveying air therethrough from the air filter to the carburetor and having means at its opposite ends for connecting it between the outlet of the filter and the inlet of the carburetor, said adapter having a first disk fixed thereon adjacent to its filter end with a plurality of radially extending slots therethrough and a second disk with similar slots mounted for rotation in said casing adjacent said first disk, said slots being thereby arranged for selective partial registration with one another to impart a regulated whirling motion to the air passing through said casing, said adapter having an inlet pipe on the downstream side of said disks and extending inwardly from its side wall and axially downwardly therefrom for the supply of the normally gaseous fuel, said pipe terminating in a nozzle having radially disposed orifices therein for discharging said fuel centrally of said adapter and in a direction transverse of the flow of air therethrough, said nozzle being spaced from the interior wall of said adapter providing an annular air space for the flow of air around and past said nozzle as regulated by the relative adjustment of said disks.

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**2,645,571**
## INFLAMMABLE COMPOSITION CONTAINING RED PHOSPHORUS
**Martin S. Silverstein, Camden, N. J.**
**No Drawing. Original application January 27, 1944, Serial No. 519,949. Divided and this application March 13, 1945, Serial No. 582,481**
**2 Claims. (Cl. 52—2)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

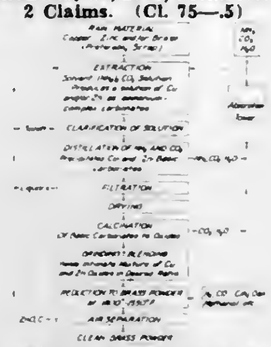
1. An inflammable composition comprising a solid oxidizing agent for red phosphorus and red phosphorus containing not more than thirty parts of iron per million parts of red phosphorus.

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**2,645,572**
## 3-THIANAPHTHENYLOXYACETIC ACID, ITS SALTS AND ESTERS, AND HERBICIDAL COMPOSITION THEREOF
**Frederick F. Blicke, Washtenaw County, Mich., assignor to Regents of the University of Michigan, Ann Arbor, Mich., a corporation of Michigan**
**No Drawing. Application December 22, 1949, Serial No. 134,617**
**8 Claims. (Cl. 71—2.5)**

1. A compound selected from the group consisting of 3-thianaphthenyloxyacetic acid, its salts and esters.

**2,645,573**
## PROCESS FOR PRODUCING BRASS POWDER
**Joseph E. Drapeau, Jr., Calumet City, and Nathan B. Barber, Jr., Chicago, Ill.; said Drapeau, Jr., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio**
**Application July 24, 1946, Serial No. 685,794**
**2 Claims. (Cl. 75—.5)**



1. The method of producing soft, alloyed brass powder which is composed essentially of between about 4% and 30% of zinc, balance copper, and which is particularly adapted for use in making briquetted bodies having good green strength and good sintering properties, said process comprising the steps of: subjecting to reduction at temperatures between about 1400° F. and 1550° F. and in a flowing stream of gaseous reducing agent a loose, unconsolidiated, shallow layer consisting essentially of an intimate mixture of zinc oxide having a particle size below about 10 microns and at least one finely-divided cupriferous material selected from the group consisting of metallic copper and oxidic copper compounds, the zinc oxide and cupriferous materials being proportioned in said layer to provide (*a*) zinc and copper contents therein in about the proportions required in the desired brass powder, and (*b*) to provide an excess of zinc oxide thereover in an amount as hereinafter specified; continuing the reduction until any oxidic copper compounds have been reduced to metallic copper and until the major part of the zinc oxide has been reduced, but discontinuing the reduction while sufficient unreduced zinc oxide remains in the layer to effectively maintain the entire mass thereof in a powdery, substantially unsintered condition; cooling the layer under nonoxidizing conditions, and thereafter separating the unreduced zinc oxide and recovering brass powder from said cooled mass.

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**2,645,574**
## STEEL FOR HIGH-TEMPERATURE USE
**Claude L. Clark, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio**
**No Drawing. Application September 11, 1951, Serial No. 246,159**
**3 Claims. (Cl. 75—126)**

1. A forgeable steel alloy which as normalized from 1750° F. and tempered at 1200° F. to a Brinell hardness of 300/350 is characterized by high strength at room and elevated temperatures and by a 1000 hour rupture strength at 1100° F. of at least 30,000 pounds per square inch and having substantially the composition: 0.18 to 0.28 per cent of carbon, 1 to 2 per cent of chromium, 0.3 to 0.6 per cent of manganese, 0.4 to 0.6 per cent of molybdenum, 0.5 to 1 per cent of silicon, and 0.7 to 0.9 per cent of vanadium, and the remainder iron together with impurities and elements in amounts that do not adversely affect the properties.



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**2,645,575**
## CHROMIUM-NICKEL TITANIUM BASE ALLOYS
**Schuyler A. Herres, Albany, and Thomas K. Redden, Cohoes, N. Y., assignors to Allegheny Ludlum Steel Corporation, a corporation of Pennsylvania**
**No Drawing. Application October 29, 1949, Serial No. 124,484**
**3 Claims. (Cl. 75—177)**

1. A heat-treatable titanium-base alloy consisting of about .02 to .40% oxygen, about .02 to .25% nitrogen, about 1 to 5% nickel, about 10 to 18% chromium, and the remainder titanium.

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**2,645,576**
## PURIFYING WOOD PULP
**Stanley Charles Bate, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Application February 11, 1949, Serial No. 75,963. In Great Britain March 10, 1948**
**2 Claims. (Cl. 92—13)**

1. Process for purifying wood pulps having an alpha-cellulose content above 85% and a pentosan content below 3.5% whereby there is obtained a cellulose suitable for esterification, which consists in introducing the pulp into an aqueous caustic alkali solution of concentration 17–19% which is already at a temperature of 50–55° C., maintaining the mixture of pulp and alkali solution within this temperature range for 45–90 minutes, removing the greater part of the alkali solution from the treated pulp while maintaining the concentration of the alkali solution, and washing the pulp free from alkali with water at a temperature above 80° C.

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**2,645,577**
## PURIFYING WOOD PULP
**Stanley Charles Bate, Francis George Peach, and Walter Alan Rogerson, Spondon, near Derby, England, assignors to British Celanese Limited, a company of Great Britain**
**No Drawing. Application April 8, 1950, Serial No. 154,886. In Great Britain May 20, 1949**
**4 Claims. (Cl. 92—13)**

1. Process for purifying wood pulps having an alpha-cellulose content above 85% and a pentosan content below 3.5% whereby there is obtained a cellulose suitable for esterification, which comprises digesting the pulp with an aqueous caustic soda solution of 17–19% concentration at a temperature of 50°–55° C. for 45 to 90 minutes as the only chemical purifying operation, then removing the greater part of the alkali solution from the digested pulp while maintaining the concentration of the solution, washing the pulp with water until it is substantially free from alkali, and boiling the washed pulp with water for a period of 15–45 minutes under atmospheric pressure.

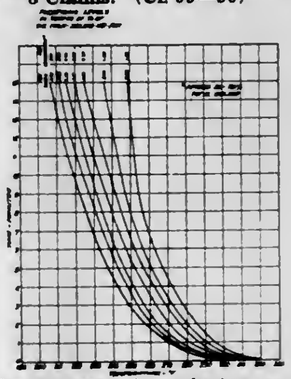
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**2,645,578**
## LITHOGRAPH-PLATE PREPARATION
**William H. Wood, Mantua, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware**
**No Drawing. Application January 22, 1949, Serial No. 72,279**
**6 Claims. (Cl. 95—7)**

1. In the treatment of lithographic plates, surfacing the plate with the reaction product of a cation-exchange material of gum arabic formed by contacting such material and the gum in aqueous solution at ordinary temperature and subsequently separating the gum derivative, and providing a lithographic light-sensitizing agent therein.

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**2,645,579**
## DRIED MILK PRODUCT FOR USE IN COFFEE OR THE LIKE AND PROCESS OF PRODUCING SAME
**Clayton A. Kempf, Berkeley, Calif., and Evelyn L. Blanchard, Washington, D. C., assignors to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware**
**Application July 13, 1950, Serial No. 173,538**
**8 Claims. (Cl. 99—58)**



1. In the process of producing a dry milk product which is free from the tendency to feather when introduced into coffee, the steps of introducing, when processing fluid milk, from approximately 2% to approximately 3.72% and, when processing concentrated milk having a solids content of approximately 28% to 30%, from approximately 1.40% to approximately 3.10% based on milk solids not fat of a substance selected from the group consisting of disodium phosphate and hydrates thereof, and subjecting the milk to a temperature of from approximately 205° F. to 320° F. for a period varying from substantially instantaneous heat treatment for the highest temperature to approximately fifteen minutes for the lowest temperature but not substantially below approximately 255° F. for the lowest quantity of said selected added substance.

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**2,645,580**
## METHOD OF PRODUCING A FLUFFY CHOCOLATE CONFECTION
**Paul E. Schultz, Wichita, Kans.**
**No Drawing. Application May 25, 1951, Serial No. 228,367**
**2 Claims. (Cl. 99—134)**

1. The herein disclosed method of producing a chocolate confection of solid form but fluffy structure, comprising dispersing nitrous oxide gas under pressure in a confined body of warm, molten chocolate confection while mechanically agitating said molten confection and then releasing the mechanically agitated molten mixture containing the dispersed and mechanically distributed gas dissolved therein and allowing the mixture as it is released to expand under pressure of the gas, into fluffy condition and cooling and hardening the fluffed molten mixture to an expanded, fluffy but solid condition.

2,645,581

## ANTIOXIDANT SALT AND METHOD OF PREPARING THE SAME

Clinton S. Robison, Chicago, Ill., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application April 26, 1949, Serial No. 89,811
7 Claims. (Cl. 99—143)

1. A composition for salting and stabilizing fatty foods against rancidity comprising common salt in crystal form, having substantially all of the surfaces of said salt crystals coated with a thin layer of glyceryl monostearate having dissolved therein an effective amount of nordihydroguaiaretic acid, and an acid synergist therefor.

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2,645,582

## PENCIL LEAD

Georg Loy, Nurnberg, Germany, assignor to J. S. Staedtler, Mars-Bleistiftfabrik, Nurnberg, Germany, a corporation of Germany

No Drawing. Application January 16, 1950, Serial No. 138,930. In Germany October 14, 1949
4 Claims. (Cl. 106—19)

4. A pencil lead comprising soot, graphite, talcum, calcium stearate, gum tragacanth, and a surface active agent.

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2,645,583

## METHOD OF PREPARING CARBON BASE PASTES

Stefan Stanko, Saint-Jean de Maurienne, France, assignor to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques

No Drawing. Application July 14, 1949, Serial No. 104,797. In France May 30, 1949
6 Claims. (Cl. 106—56)

1. Method of producing a carbon paste from a batch of finely divided solid carbonaceous material and a binder for said carbonaceous material wherein the carbonaceous material consists of particles of various sizes, which comprises the steps of separating the batch of carbonaceous material into two fractions constituted respectively of relatively coarse particles and fines whereby the smallest-sized particles in said fraction of relatively coarse particles are substantially similar in size to that of the pores of the largest-sized particles therein, mixing said binder with the fraction of coarse particles until substantially all of said coarse particles are wetted by said binder, adding the fines to the wetted coarse particles and continuing the mixing operation until no further noticeable increase in the homogeneity of the resultant mixture is observed.

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2,645,584

## IRONING AID AND TEXTILE REFINISHING COMPOSITION

James G. Wiegerink, Sr., Ridley Park, Pa.

No Drawing. Application February 6, 1950, Serial No. 142,711
14 Claims. (Cl. 106—131)

1. An ironing aid and textile refinishing composition consisting essentially of (1) a water-soluble wax consisting of at least one polyoxyethylene compound of the group consisting of a polyoxyethylene glycerol triricinoleate with from 50 to 300 oxyethylene groups per mol and a polyoxyethylene glycerol tri-hydroxy stearate with from 50 to 300 oxyethylene groups per mol, and (2) a water-soluble to colloidally dispersible polymeric colloid.

2,645,585

WITHDRAWN

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2,645,586

WITHDRAWN

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2,645,587

## METHOD OF MAKING LIGNOCELLULOSE PRESSURE MOLDED ARTICLE

Robert V. Williamson, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 25, 1950, Serial No. 175,849
6 Claims. (Cl. 106—200)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The method comprising subjecting a dry mixture of fibrous lignocellulose material with a thermoplastic binder, the mixture containing from about 75 to about 90% fibrous lignocellulose to heat treatment in the substantial absence of oxygen at a temperature within the range of 200° to 300° C., thus to cause evolution of smoke, maintaining the temperature within said range while excluding oxygen until the evolution of appreciable smoke ceases, said mixture remaining in solid state throughout said treatment, and pressure molding the thus treated mixture at a temperature below the heat treatment.

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2,645,588

## SILOXANE SILICA COMPOSITION

Arthur J. Barry, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application March 9, 1950, Serial No. 148,751
2 Claims. (Cl. 106—287)

1. A composition of matter having the consistency of grease and consisting essentially of a fluid polysiloxane of at least 50 cs. viscosity at 25° C., said siloxane having from 1.9 to 2.1 hydrocarbon radicals per silicon atom, said radicals being selected from the group consisting of methyl and phenyl radicals, at least 50 per cent thereof being methyl radicals, and from 1 per cent to 35 per cent by weight $SiO_2$ based upon the weight of the composition, said composition having been prepared by the steps comprising replacing the water in a silica hydrogel with a water-miscible organic solvent, and thereafter replacing essentially all of the solvent in the gel with the siloxane.

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2,645,589

## METHOD AND APPARATUS FOR THE CONTINUOUS EXTRACTION OF SUGAR FROM SUGAR BEETS

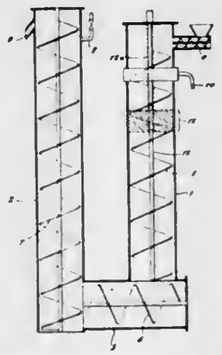
Eugen Langen, Haus Etzweiler, Elsdorf, Germany, assignor, by mesne assignments, to Superior Sugar Extraction, Inc., New York, N. Y., a corporation of New York

Application July 11, 1950, Serial No. 173,156
In Germany October 31, 1949
7 Claims. (Cl. 127—7)

1. In an apparatus for extracting sugar from sugar beets wherein slices of unheated beets are introduced into the apparatus and are moved through the apparatus countercurrent to the flow of an extraction liquid in which said slices



are immersed, said liquid containing extracted substances being discharged from the apparatus at a point adjacent an inlet for introducing the unheated slices, the combination of a rotatable shaft supporting a conveyor screw for moving the slices of beets through the apparatus, a double-walled spiral on said conveyor screw having openings in the lower wall thereof, a portion of said shaft being hollow and communicating with the space between the double-walled spiral



of the conveyor screw for the introduction of steam into the extraction liquid and the slices of beets contained therein at a heating zone, said heating zone being located at a distance from the discharge point of the extraction liquid permitting the liquid to cool from a temperature of 160° to 170° F. to a temperature of at least 104° F. and to balance by diffusion dilution resulting from condensation of the steam introduced in said heating zone.

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2,645,590

## MANUFACTURE OF AIR SPACED ELECTRIC CABLES

Raymond Charles Mildner, Shirley, Oxhey, and Clive Edward Christopher Lovelace, Blackheath, London, England, assignors to Telegraph Construction & Maintenance Company Limited, London, England, a company of Great Britain

Application May 15, 1951, Serial No. 226,376
In Great Britain May 16, 1950
13 Claims. (Cl. 154—2.26)



8. In the manufacture of an electric conductor structure having an air space insulation, simultaneously moving the conductor and a tube of dielectric material thereon in the form of a helix, and during said moving stretching the turns of the helix to the required pitch to provide a helical membrane about the conductor.

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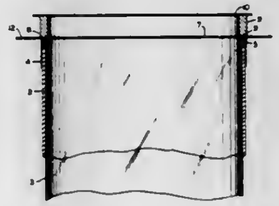
2,645,591

## METHOD OF BONDING AN END CLOSURE TO A THERMOPLASTIC BAG

Irvin Makrauer, Cincinnati, Ohio, assignor to Sydney-Thomas Corporation, Cincinnati, Ohio, a corporation of Ohio

Application October 25, 1950, Serial No. 191,995
10 Claims. (Cl. 154—83)

1. A method of fabricating bags as articles of manufacture having one end closed and one end open comprising forming a tubular section of thin, flexible thermoplastic material open at both ends, then bending the wall portion later-



ally at one end of the tubular section to widen the edge surface of the wall of the section, and heat sealing an end closure to the laterally bent portion of the end of the tubular section.

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2,645,592

## PEST CONTROL CHEMICALS

Ramsey G. Campbell, Richmond, Calif., assignor to Stauffer Chemical Company, a corporation of California

No Drawing. Application March 2, 1950, Serial No. 147,337
6 Claims. (Cl. 167—30)

1. An acaracide comprising an inert insecticidal adjuvont as a carrier and an effective concentration of a material selected from the group consisting of 4-chlorophenyl 4' fluorophenyl sulfone and 4-bromophenyl 4' fluorophenyl sulfone.

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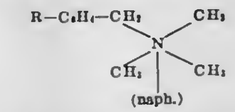
2,645,593

## QUATERNARY AMMONIUM NAPHTHENATE AND METHOD OF MAKING THE SAME

Archibald Mortimer Erskine, Berkeley, Calif.

No Drawing. Application February 9, 1951, Serial No. 210,293
16 Claims. (Cl. 167—30)

1. N-alkylbenzyl-trimethyl ammonium naphthenate having the formula




in which R is an alkyl group between $C_8H_{17}$ and $C_{18}H_{37}$.

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2,645,594

## ANTISEPTIC ACRIDANE COMPOUNDS

Donalee L. Tabern, Lake Bluff, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application October 19, 1948, Serial No. 55,424
28 Claims. (Cl. 167—65)

1. An acridane compound characterized by the presence of an alkoxy-phenyl group at the 9-position and a hydrocarbon group at the 10-position, the alkyl group of said alkoxy group containing from one to fourteen carbon atoms and the hydrocarbon group at the 10-position containing from one to ten carbon atoms.

2,645,595

## COMPOSITIONS FOR TINTING HAIR

Frederick M. Lipman, Yonkers, N. Y., assignor to Charles Marchand Company, New York, N. Y., a corporation of Delaware

No Drawing. Application January 26, 1951, Serial No. 208,052
4 Claims. (Cl. 167—88)

1. As a new composition of matter, a dry hair tinting concentrate comprising nontoxic acid dye material and benzene phosphonic acid, in the proportions of from about 2 to about 50 parts by weight of dye to from about 50 to about 2000 parts by weight of benzene phosphonic acid.

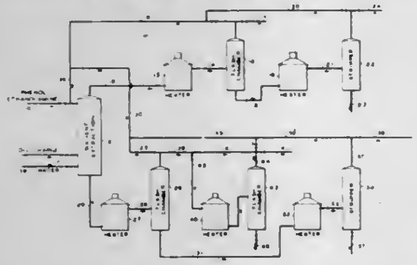
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2,645,596

## EXTRACTION OF LUBRICATING OILS WITH A PHENOL-ALKANOLAMINE SOLVENT

William Nelson Axe, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 1, 1948, Serial No. 57,770
10 Claims. (Cl. 196—14.35)



1. A process for the solvent extraction of a light lube oil stock, comprising countercurrently contacting said lube oil stock with a downwardly moving solvent material comprising from 1 to 20 weight per cent ethanolamine dissolved in phenol, maintaining a temperature in the top portion of the zone of said contacting within the range of 200–250° F., maintaining a temperature in the bottom portion of said zone at a level at least as high as the pour point of said oil, withdrawing raffinate phase from the top of said zone, withdrawing extract phase from the bottom of said zone, recovering said solvent from each said phase, recovering solvent-free extract, and recovering solvent-free raffinate as a product of the process.

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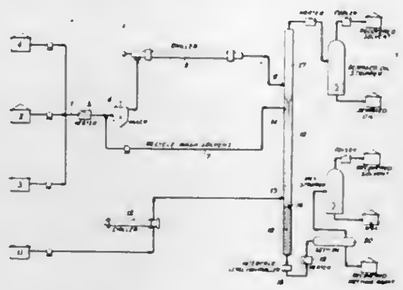
2,645,597

## PROCESS FOR SEPARATING WAX FROM WAX-OIL MIXTURES

Harold C. Myers and Arnold O. Pukkila, Woodbury, and Theodor A. Petry, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application July 28, 1949, Serial No. 107,318
13 Claims. (Cl. 196—18)

1. A process for separating wax and oil from a wax-oil mixture, which comprises adding an aqueous solution, which is capable of remaining in substantially the liquid state at the dewaxing temperature, to said wax-oil mixture, in an amount varying between about one per cent and about 200 per cent, based on the weight of the wax-oil mixture, to produce an aqueous solution-wax-oil mixture; treating said aqueous solution-wax-oil mixture, in the presence of a surface active agent that produces a finite three-phase contact angle in the bubble machine test at the dewaxing temperature, in amounts of at least about 0.01 per cent, based on the weight of the wax-oil mixture, but less than the amount necessary to promote formation of a wax-oil mixture-in-aqueous solution emulsion in which the aqueous solution is the continuous phase, to produce a dispersion in which the aqueous solution is the dispersed phase and the wax-oil mixture is the



continuous phase, and to associate wax with said dispersed phase, thereby producing a dispersed wax-aqueous solution phase, said dispersion being maintained at the dewaxing temperature, whereby wax is present in the solid state; and separating said dispersed wax-aqueous solution phase from said dispersion.

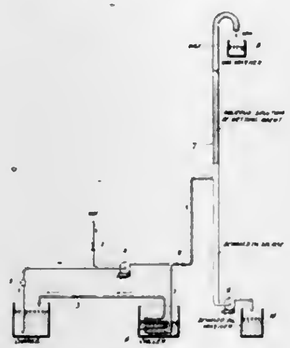
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2,645,598

## PROCESS FOR SEPARATING WAX FROM WAX-OIL MIXTURES

Harold C. Myers and Arnold O. Pukkila, Woodbury, Abbott F. Houser, Brooklawn, and William H. King, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application August 11, 1949, Serial No. 109,692
15 Claims. (Cl. 196—18)



1. A process for separating wax and oil from a wax-oil mixture, which comprises adding an aqueous solution, which is capable of remaining in substantially the liquid state at the dewaxing temperature, to said wax-oil mixture, in an amount varying between about one per cent and about 200 per cent, based on the weight of the wax-oil mixture, to produce an aqueous solution-wax-oil mixture; treating said aqueous solution-wax-oil mixture, in the presence of a surface active agent that produces a finite three phase contact angle in the bubble machine test at the dewaxing temperature, in amounts of at least about 0.01 per cent, based on the weight of the wax-oil mixture, but less than the amount necessary to promote formation of a wax-oil mixture-in-aqueous solution emulsion in which the aqueous solution is the continuous phase, to produce a dispersion in which the aqueous solution is the dispersed phase and the wax-oil mixture is the continuous phase, and to associate wax with said dispersed phase, thereby producing a dispersed wax-aqueous solution phase, said dispersion being maintained at the dewaxing temperature whereby wax is present in the solid state; introducing a gas into said dispersion; continuing said treating to associate said gas with said dispersed wax-aqueous solution phase, thereby producing a wax-bearing froth; and separating said wax-bearing froth from said dispersion.



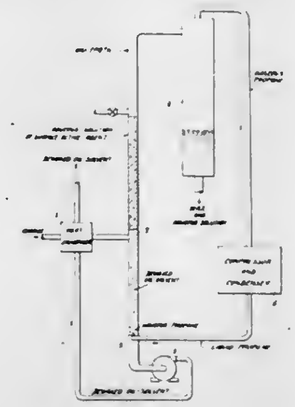
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2,645,599

## PROCESS FOR SEPARATING WAX FROM WAX-OIL MIXTURES

John W. Payne, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application November 28, 1950, Serial No. 197,924
8 Claims. (Cl. 196—18)



1. A process for separating wax and oil from a wax-oil mixture, which comprises adding an aqueous solution which is capable of remaining in substantially the liquid state at the dewaxing temperature, to said wax-oil mixture, in an amount varying between about one per cent and about 200 per cent, based on the weight of the wax-oil mixture, to produce an aqueous solution-wax-oil mixture; treating said aqueous solution-wax-oil mixture in the presence of a surface active agent that produces a finite three-phase contact angle in the bubble machine test at the dewaxing temperature, in amounts of at least about 0.01 per cent, based on the weight of the wax-oil mixture, but less than the amount necessary to promote formation of a wax-oil mixture-in-aqueous solution emulsion in which the aqueous solution is the continuous phase, to produce a dispersion in which the aqueous solution is the dispersed phase and the wax-oil mixture is the continuous phase; introducing a liquified, low-boiling material into said dispersion; permitting said liquified, low-boiling material to vaporize to precipitate wax and to produce gas; continuing said treating to associate said wax and said gas with the dispersed aqueous solution phase, thereby producing a wax-bearing froth; and separating said wax-bearing froth from said dispersion.

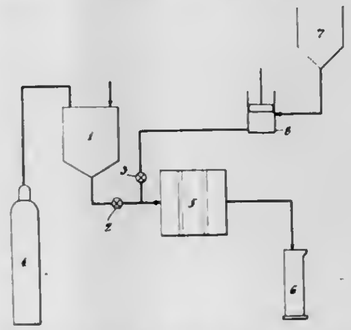
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2,645,600

## PROCESS FOR DEWAXING OILS CONTAINING WAX

Harold C. Myers and Arnold O. Pukkila, Woodbury, and James I. Barnes, Mickleton, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application October 4, 1949, Serial No. 119,502
17 Claims. (Cl. 196—19)



1. A wax filter pressing process which comprises adding an aqueous solution, which is capable of remaining in substantially the liquid state at the pressing temperature, to a wax-oil mixture in an amount varying between about 2.5% and about 100%, based on the weight of the wax-oil mixture, to produce an aqueous solution-wax-oil mixture; treating said aqueous solution-wax-oil mixture, in the presence of a surface active agent that produces a finite three-phase contact angle in the bubble machine test at the pressing temperature, in amounts of at least about 0.1%, based on the weight of the wax-oil mixture, but less than the amount necessary to promote formation of a wax-oil mixture-in-aqueous solution emulsion in which the aqueous solution is the continuous phase, to produce a dispersion in which the aqueous solution is the dispersed phase and the wax-oil mixture is the continuous phase, and to associate wax with said dispersed phase, thereby producing a dispersed wax-aqueous solution phase, said dispersion being maintained at the de-waxing temperature, whereby wax is present in the solid state; and subjecting said dispersion to a wax filter pressing operation.

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2,645,601

## TREATMENT OF PARAFFINS WITH ALUMINUM BROMIDE

Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application June 22, 1949, Serial No. 100,753
13 Claims. (Cl. 196—21)

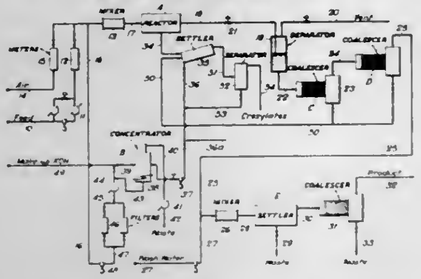
1. The process for lowering the pour point of a paraffinic material which comprises maintaining together said material and a low-boiling saturated hydrocarbon with a substantial proportion of aluminum bromide at a temperature in the approximate range 10° C.–100° C. for a period of time sufficient to cause a lowering of its pour point.

2,645,602

## SWEETENING HYDROCARBON DISTILLATES

Theodore B. Tom and Jack H. Krause, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application March 17, 1950, Serial No. 150,161
6 Claims. (Cl. 196—29)



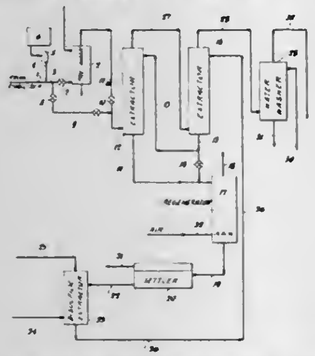
1. The process of removing mercaptans from a sour hydrocarbon distillate boiling above the gasoline range without formation of excessive color therein, which comprises intimately contacting said distillate with about 1 to 15 percent by volume of an aqueous solution of KOH having a concentration of about 50 to 60 weight percent, introducing a gas containing an amount of free oxygen about stoichiometrically equivalent to the amount of mercaptans present in said distillate into the mixture of distillate and KOH, maintaining the temperature of contacting at about 100 to 125° F. until there has been a substantial reduction in mercaptan content and separating spent KOH solution and associated reaction products from the treated oil.

2,645,603

## GASOLINE TREATING

John Matthias Cranmer, East Providence, R. I., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application March 1, 1950, Serial No. 147,088
6 Claims. (Cl. 196—32)



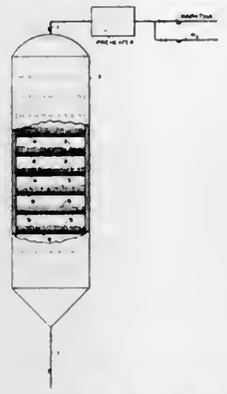
1. A method of inhibiting internal oxidation of mercaptans to polysulfides in gasoline which comprises drawing gasoline containing mercaptans from a stabilizer, introducing about 5 to about 20 pounds of N,N'-di(secondary-butyl) phenylenediamine per 1,000 barrels of gasoline into said gasoline, contacting said gasoline containing mercaptans and said phenylenediamine in the absence of substantial amounts of air with an alkaline solution to extract a major portion of said mercaptans to obtain a fouled alkaline solution containing said extracted mercaptans as mercaptides and a treated gasoline, separating said treated gasoline from said fouled alkaline solution, and regenerating said fouled alkaline solution.

2,645,604

## TANDEM-BED HYDROFORMING PROCESS

Alfred Clark, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 7, 1949, Serial No. 114,363
2 Claims. (Cl. 196—49)



1. The hydroforming of a naphtha which comprises passing said naphtha at a temperature in the range 950°–1050° F. and a pressure in the range of 200 to 250 pounds per square inch gage into contact with a chromia-alumina catalyst in a first stage and then passing the effluent from said stage immediately and without any additional intermediate step directly into contact with a molybdenum oxide-alumina catalyst under hydroforming conditions in a second stage in which the temperature prevailing is lower than that in said first stage and is in the range 850°–930° F. and the pressure in said second stage is substantially the same as in said first stage.

2,645,605

## REFORMING AND CATALYSTS THEREFOR

William H. Lang, Wenonah, and Carlos L. Gutzeit, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application April 27, 1951, Serial No. 223,438
4 Claims. (Cl. 196—50)

3. A process for effecting reforming of petroleum naphthas, which comprises contacting a petroleum naphtha with a catalyst comprising from about 5 per cent by weight to about 70 per cent by weight of chromium oxide calculated as chromium sesquioxide, from about 0.1 per cent by weight to about 2.0 per cent by weight of fluorine, an amphoteric metal selected from the group consisting of tin, antimony and bismuth, in amounts varying from about 0.5 to about 2 times the amount calculated to form the normal fluoride of the amphoteric metal in its lower valence, and the balance alumina, at a temperature falling within the range varying between about 900° F. and about 1050° F., at a pressure falling within the range varying between about 100 pounds per square inch gauge and about 750 pounds per square inch gauge, at liquid hourly space velocities varying between about 0.5 and about 5, and in the presence of hydrogen in amounts varying between about one mole of hydrogen per mole of naphtha and about ten moles of hydrogen per mole of naphtha.

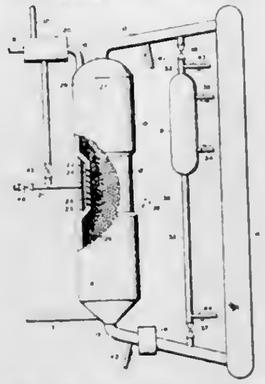


2,645,606

## PEBBLE HEAT EXCHANGE CONVERSION PROCESS

Harold Joseph Hepp, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application May 31, 1949, Serial No. 96,297
13 Claims. (Cl. 196—55)



1. A process for endothermic conversion of a hydrocarbon, comprising gravitating a contiguous compact stream of hot pebbles thru a series of contiguous zones including an upper conversion zone, a lower feed preheating zone, and an interconnecting combustion zone; contacting that section of said pebble stream in said preheating zone with an ascending stream of convertible hydrocarbon so as to preheat same; passing the entire preheated hydrocarbon stream directly thru said interconnecting combustion zone in contact with said pebble stream; burning a sufficient portion of said preheated hydrocarbon stream by introducing oxygen-containing gas into said interconnecting combustion zone into admixture with the hydrocarbon therein to further heat and to effect desired conversion of said hydrocarbon with concomitant heating of the pebbles in said interconnecting combustion zone and in the lower portion of said conversion zone; and passing the entire effluent from said interconnecting combustion zone into said conversion zone and continuing the conversion in the lower portion of said conversion zone; transferring pebbles from the lower portion of said preheating zone to the upper portion of said conversion zone; and recovering a converted hydrocarbon effluent from said conversion zone.

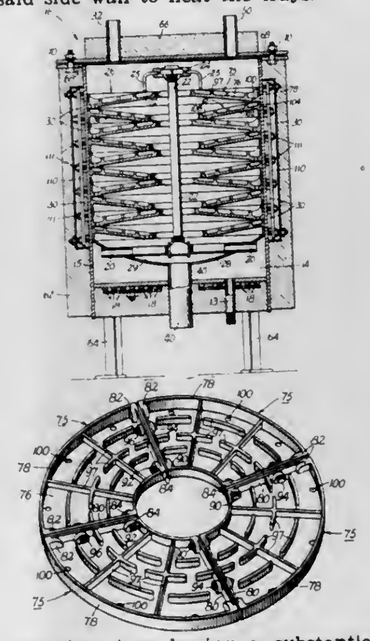
2,645,607

## VAPORIZER UNIT AND TRAY

Albert S. Allen, Springfield, Mo., assignor to United States Hoffman Machinery Corporation, Syracuse, N. Y.

Application October 30, 1948, Serial No. 57,465
12 Claims. (Cl. 196—111)

1. A vaporizer unit comprising a substantially cylindrical tank having a vertical axis and a heat conducting side wall, a plurality of trays within said tank positioned one above the other and having peripheral surfaces which conform to and tightly engage the inner surface of said side wall, each of said trays comprising a plurality of tray sections divided from each other along radial planes, and pockets adjacent the ends of the dividing walls of said section, a plurality of spacer springs in said pockets to urge said sections away from each other transversely of said planes, a plurality of bolts to hold said sections together, a pre-heater section in the bottom of said tank formed by a concave wall positioned directly beneath the lowest tray and spaced upwardly from the bottom wall of the tank, a pipe assembly extending from said pre-heater section to the top of said tank, and having oil discharge means directing oil into the uppermost of said trays, and heater means on the outer surface of said side wall to heat the trays.



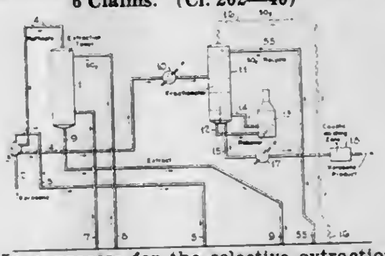
10. A vaporizer tray having a substantially circular periphery and formed by more than two substantially identical tray sections each of which has two radial side walls with each wall having adjacent its ends pockets which receive the ends of spacer springs, and means holding said tray sections together.

2,645,608

## SULFUR DIOXIDE EXTRACTION PROCESS

Norman F. Linn, Summit, Henry Ernst, Jr., Fanwood, and Arthur K. Scott, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 1, 1950, Serial No. 171,612
6 Claims. (Cl. 202—40)



1. In a process for the selective extraction of constituents from a hydrocarbon distillate in

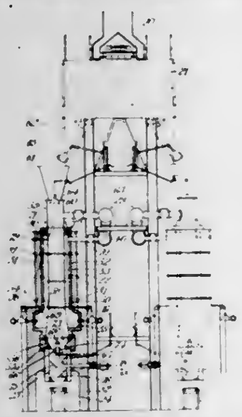
which the hydrocarbon distillate is contacted with liquid sulfur dioxide to provide extract and raffinate streams, the improvement which comprises separately processing at least one of said streams as follows: pre-heating said stream to a temperature of at least about 200° F., passing said heated stream to at least one fractionation zone, withdrawing gas comprising sulfur dioxide from the top of the fractionation zone, cooling and condensing said sulfur dioxide and returning at least a portion of the liquefied sulfur dioxide to the fractionation zone as reflux, withdrawing liquid comprising hydrocarbons from the bottom of the fractionation zone and heating at least a portion of the said withdrawn liquid to a temperature of about 400° to 500° F., and returning said heated portion to the bottom of the fractionation zone, said process being characterized by an average holdup time of the hydrocarbons at a temperature above 350° F. of less than 10 minutes.

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**2,645,609**
**VERTICAL SHALE RETORT**

**Hastings John Holford, Yatton, and Alexander John Challis, Bristol, England, assignors to Holford Processes Limited, London, England, a British company, and George Adlam & Sons Limited, Bristol, England, a British company**

**Application June 15, 1949, Serial No. 99,278**
**In Great Britain March 11, 1949**
**3 Claims. (Cl. 202—121)**



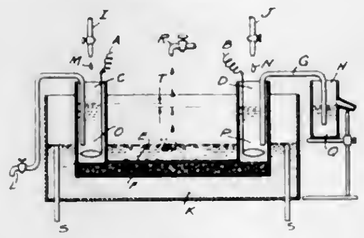
1. A distillation apparatus for oil-shale and materials having like expansion properties under heat, comprising a vertical retort shaft an upper part of which is of substantially constant cross-sectional area while the bottom of the retort shaft consists of two superimposed sections of frusto-conical shape joined together at their widest parts, a jacket wall surrounding the retort shaft so as to provide a heating jacket space extending round the retort shaft over the greater part of the height thereof from a position above the bottom of the upper section, the lower portion of the upper section and the whole of the lower section lying beneath the jacket space and being unheated, which jacket space is of greater width around the upper portion of the upper of the two superimposed sections, means for introducing fluid heating medium both into the bottom of the retort shaft and into the jacket space opposite the upper of the two superimposed sections, means for introducing the materials to be distilled into the top of the retort shaft and means for releasing the spent material from the lower of the two superimposed sections, which provides an outlet from the retort shaft.

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**2,645,610**
**PROCESS FOR THE SEPARATION OF ISOTOPIC IONS**

**Samuel Leo Madorsky, Chicago, Ill., and Aubrey Keith Brewer, Richland Center, Wis., assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission**

**Application February 25, 1942, Serial No. 432,185**
**1 Claim. (Cl. 204—1)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



A process for treating an aqueous solution of $K_2SO_4$ containing $K^{39}$ and $K^{41}$ ions in order to obtain a product beneficiated with respect to $K^{39}$ ions which comprises passing a direct current thru an aqueous $K_2SO_4$ electrolyte from the anode zone thru a porous packing zone made from material selected from the group consisting of sand, fritted glass, and porous Alundum to a cathode zone thereby causing $K^{39}$ and $K^{41}$ ions to travel toward the cathode and the $SO_4^-$ ions to travel toward the anode whereby the electrolyte in the vicinity of the cathode becomes slightly alkaline and the electrolyte in the vicinity of the anode becomes slightly acid, adding restituent aqueous sulfuric acid solution to the cathode zone to reduce the alkalinity caused by electrolysis, adding restituent aqueous potassium hydroxide solution to the anode zone to reduce the acidity caused by electrolysis, the volume of aqueous sulfuric acid solution that is added to the cathode zone being sufficiently greater than the volume of aqueous potassium hydroxide solution that is added to the anode zone to set up a flow of electrolyte that is counter to the direction in which the $K^{39}$ and $K^{41}$ ions are traveling due to electrolysis and which flow is at a velocity that is intermediate the rates at which the $K^{39}$ and $K^{41}$ ions are being electrically transported whereby $K^{39}$ ions become concentrated in the cathode zone while $K^{41}$ ions are swept back therefrom, and withdrawing $K_2SO_4$ electrolyte beneficiated with respect to $K^{39}$ ions from the cathode zone.

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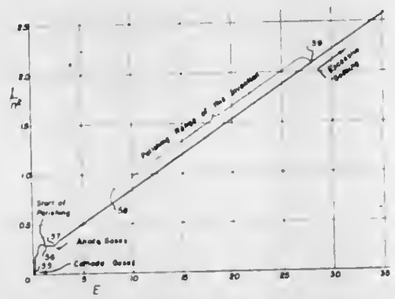
**2,645,611**
**METHOD OF AND BATH FOR ELECTROLYTIC POLISHING**

**Willard G. Axtell, Denver, Colo., assignor to Shwayder Bros., Inc., Denver, Colo., a corporation of Colorado**

**Application September 20, 1948, Serial No. 50,068**
**18 Claims. (Cl. 204—140.5)**

1. An electrolytic polishing bath comprising by volume, from approximately 35% to approximately 70% of orthophosphoric acid; from approximately 8% to approximately 64% of at least one water soluble polyhydric alcohol; from approximately 1% to approximately 12% of a mono-hydroxy mono-carboxylic acid; from approximately 5% to approximately 30% of water;





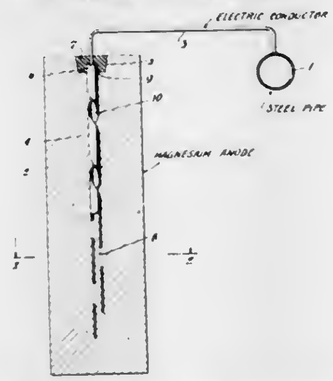
and from 0 to approximately 10% of an addition agent adapted to increase the brightness of an article polished in said bath, the total of said constituents being approximately 100%.

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**2,645,612**
**SACRIFICIAL ANODE**

**Richard D. Taylor, Suffern, N. Y., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**

**Application June 15, 1950, Serial No. 168,280**
**5 Claims. (Cl. 204—197)**




1. A sacrificial metal anode comprising a metal core embedded in a body of an anodic protective metal and disposed centrally therein and bonded thereto, said core comprising a rigid, self-sustaining, open pitch helix of strip metal in the form of a hollow tube-like shape having an arcuate transverse cross-sectional area, said strip metal also being of uniform thickness throughout its length.

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**2,645,613**
**LUBRICATING COMPOSITION**

**David E. Adelson, Berkeley, and Roy E. Thorpe, Castro Valley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application March 14, 1949, Serial No. 81,404**
**10 Claims. (Cl. 252—49.7)**

7. An extreme pressure mineral lubricating oil having incorporated therein from about 1% to about 10% of a dissimilar metal complex represented by the formula

$$MX—M'X—BR_3$$

wherein MX and M'X are metal halides of dissimilar metals selected from the group consisting of Ag, Cu, Sn, Mn and Co, $BR_3$ is selected from the group consisting of trialkyl phosphites, trialkyl arsenites and trialkyl antimonites, the alkyl radicals in each case containing up to four carbon atoms, the molar ratio of the metal halides MX and M'X is from 10:1 to 1:1, and the molar ratio of the sum of the metal halides to the trialkyl compound is from 1:2 to 1:10.

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**2,645,614**
**METAL-WORKING LUBRICANT**

**Wilbur C. Holmes, Holiydale, Calif., assignor to Tap and Drill Ez Corp., Inglewood, Calif., a corporation of California**

**No Drawing. Continuation of application Serial No. 48,149, September 7, 1948. This application October 29, 1951, Serial No. 253,755**
**8 Claims. (Cl. 252—56)**

1. A tool lubricant composition in a paste form consisting essentially of substantially two parts paraffin wax, three parts beeswax, one part machine lubricating oil, and one part carbon tetrachloride on a weight basis, with a portion of the carbon tetrachloride disposed through the paste in the form of droplets.

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**2,645,615**
**THICKENED AQUEOUS DETERGENT SOLUTIONS**

**Frederick Joseph Pollok, Troon, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain**

**No Drawing. Application November 24, 1948, Serial No. 61,934. In Great Britain March 3, 1948**
**6 Claims. (Cl. 252—89)**

1. An aqueous solution of a soapless detergent selected from the group consisting of synthetic organic anionic and non-ionic soapless detergents, said solution being thickened with an alkali metal salt of an acid ester of a partially esterified polyvinyl alcohol in which the vinyl alcohol groups are partly esterified by maleic acid, partly acetylated and partly unreplaced.

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**2,645,616**
**ALUMINUM CHLORHYDROXY COMPLEX AND BORATE GEL**

**Thomas Govett, Summit, and Mildred L. Almquist, Maplewood, N. J., assignors to Reheis Company, Inc., a corporation of New York**

**No Drawing. Application October 17, 1951, Serial No. 251,824**
**5 Claims. (Cl. 252—317)**

1. A gel consisting essentially of the combination of aluminum chlorhydroxy complex and an alkali metal borate, a water soluble non-toxic aliphatic monohydric alcohol, and water, the ratios of aluminum, chlorine and boron being 5–7 atomic proportions of aluminum to 3 of chlorine and 1–5 atomic proportions of boron to 9 of aluminum, and 100 parts by weight of the gel containing the monohydric alcohol in the proportion of 5–30 parts, the said combination of the complex and borate in amount to establish the desired consistency, and water in amount to make the total weight of the gel 100 parts.

2,645,617
**PAPER PULP FOAM INHIBITOR**
Raymond L. Mayhew, Phillipsburg, and James M. Cross, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 6, 1948, Serial No. 58,785
8 Claims. (Cl. 252—321)

5. A method for treating aqueous paper pulps to prevent foaming during paper making operations which comprises adding thereto a small proportion of an emulsion consisting essentially of 25 parts of an alkyd resin, 40–50 parts of water and a sufficient amount of a partially saponified higher fatty acid to emulsify said resin in the water, the amount of said emulsion being such as to provide from a trace to about 0.1% of said resin based on the pulp.

2,645,618
**CLEARING AGENTS FOR HISTOLOGICAL TISSUE**
Andrés Ferrari, Jr., Uniondale, N. Y., assignor to Technicon Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 6, 1950, Serial No. 199,561
5 Claims. (Cl. 252—364)

5. A clearing agent for use in the preparation of histological tissue for microscopic examination consisting essentially of about 60% ethylene dichloride, about 20% carbon tetrachloride and about 20% of a chlorinated naphthalene liquid at atmospheric temperature, having a specific gravity at 77° F. of 1.19 to 1.25, a viscosity (Saybolt Universal seconds at 77° F.) of 33 to 37 and a distillation range (ASTM) of 480° F. to 590° F.

2,645,619
**MANUFACTURE OF SILICA**
James Hoekstra, Evergreen Park, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 14, 1951, Serial No. 261,750
15 Claims. (Cl. 252—448)

3. A method which comprises forming a silica sol comprising an alkali metal silicate, hexamethylene tetramine in a weight ratio to silica in said silicate of from about 0.02:1 to about 0.25:1, water in a weight ratio to said silica of from about 5:1 to about 20:1, and acid in an amount to reduce the pH of the sol to from about 4 to about 5, and thereafter passing said silica sol in finely divided condition into a suspending medium wherein the sol sets into firm hydrogel spheres.

2,645,620
**NICKEL-ALUMINA-SILICA CATALYSTS AND THEIR PREPARATION**
William J. Paterson, Newton Highlands, Mass., assignor to Lever Brothers Company, New York, N. Y., a corporation of Maine
No Drawing. Original application November 1, 1947, Serial No. 783,620. Divided and this application November 17, 1950, Serial No. 196,356
9 Claims. (Cl. 252—455)

1. A method of preparing a non-colloidal, particulate, nickel-alumina-silica catalyst which comprises reacting an aqueous solution of a soluble nickel salt, a soluble aluminum salt, and alkali metal silicate at a temperature in the range of 75 to 90° C. and then gradually adding an aqueous solution of an alkali carbonate at a temperature in the range of 75° to 90° C. over an addition time in the range of 30 to 80 minutes, to obtain a precipitate, washing, drying and pulverizing the precipitate, to obtain a dried powder having a bulk density in the range of 0.10 to 0.25 kg./liter, and reducing with hydrogen at a temperature in the range of 425° to 550° C., the proportions of the reactants being chosen to provide a catalyst containing an amount of nickel in the range of 15.0 to 50.0%, and an equivalent alumina and silica content in the range of 4.0 to 16.0 $Al_2O_3$ formula weights per 45 $SiO_2$ formula weights, the proportion of nickel to alumina being in the range of 5 to 25 atom weights of nickel per formula weight $Al_2O_3$.

2,645,621
**SULFONATED AROMATIC HYDROCARBON-ALIPHATIC POLYENE HYDROCARBON ION-EXCHANGE RESINS**
Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
No Drawing. Application September 24, 1949, Serial No. 117,726
22 Claims. (Cl. 260—2.2)

1. A water-insoluble resin containing a plurality of sulfonic acid groups, said groups being attached to an insoluble, infusible resin prepared by the polymerization of a polymerizable mass comprising (1) from about 75% to about 98% polymerizable aromatic compound selected from the class consisting of polymerizable mono-vinyl-aromatic and mono-(alpha-alkyl-vinyl)-aromatic hydrocarbon compounds in which the alkyl group is chosen from the class consisting of methyl and ethyl, and (2) from about 2% to about 25% copolymerizable linear aliphatic polyene hydrocarbon compound.

2,645,622
**PRINTING INKS**
Delbert H. Praeg, Plainfield, N. J., assignor to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware
No Drawing. Application July 1, 1950, Serial No. 171,754
14 Claims. (Cl. 260—6)

1. A vehicle for a printing ink comprising a glycol-soluble, water-insoluble resinous binder dissolved in a liquid polyglycol solvent, and including from approximately 0.5% to approximately 5.0% by weight based on the weight of the vehicle of alcohol-soluble N-alkoxymethyl polymethylene polyamide.

2,645,623
**MANUFACTURE OF SYNTHETIC RESINS FROM PHENOLS AND ALDEHYDES AND OF POLYPHENOLS THEREFOR**
Friedrich Jakob Hermann, Seine, France, assignor to Reichhold Chemicals, Inc., Detroit, Mich.
No Drawing. Application October 4, 1950, Serial No. 188,488. In the Netherlands October 14, 1949
14 Claims. (Cl. 260—19)

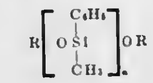
1. A process for the manufacture of resinous compositions which comprises reacting (1) a phenolic body comprising a poly-phenol containing at least 3 phenolic nuclei separated by chains of at least 5 atoms, and prepared from phenol and an unsaturated fatty oil carboxylic acid, with (2) an organic poly-iso-cyanate containing no other reactive group.

14. A resinous composition produced according to claim 1.



2,645,624
**SILANES AND SILOXANES CONTAINING t-ALKOXY RADICALS AND POLYMERS PLASTICIZED AND STABILIZED THEREWITH**
Melvin J. Hunter, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application March 3, 1950, Serial No. 147,565
6 Claims. (Cl. 260—29.1)

1. Compositions of the empirical formula



where R represents a tertiary alkyl radical having from four to five carbon atoms and $n$ has an average value of from 1 to 5, inclusive.

2,645,625
**METHODS OF CONCENTRATING SOLUTIONS**
Francis A. Bonzagni, Winthrop, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application October 31, 1951, Serial No. 254,210
9 Claims. (Cl. 260—29.4)

7. A method of preparing a clear, concentrated solution of hydrophilic methyl ethers of melamine-formaldehyde or methyl ethers of urea-formaldehyde condensation products which comprises heating under conditions of turbulent flow an alkaline reacting solution consisting essentially of water, free formaldehyde, unreacted methylating agent and less than 70% by weight of solids which consist essentially of a hydrophilic condensation product selected from the group consisting of hydrophilic methyl ethers of melamine-formaldehyde condensation products, hydrophilic methyl ethers of urea-formaldehyde condensation products and mixtures of such condensation products, to a temperature of at least 100° C but not in excess of 125° C. until the solution is concentrated to a solids content of about 70 to 95% by weight within a period of 5 minutes while maintaining the interface of the solution in intimate contact with the vapors evolved from the solution during the heating period, discontinuing the heating of the solution before the reaction product is converted to the hydrophobe state, separating the solution from the vapors in contact therewith before appreciable amounts of the vapor condense, allowing the solution to stand for a period of at least 12 hours at a concentration of about 70 to 85% by weight of solids and then separating the water-insoluble impurities in the solution from the remainder of the solution.

2,645,626
**THIXOTROPIC COATING COMPOSITION**
Birger W. Nordlander and Robert E. Burnett, Schenectady, N. Y., assignors to General Electric Company, a New York corporation
No Drawing. Application December 31, 1949, Serial No. 136,417
8 Claims. (Cl. 260—40)

1. A thixotropic coating composition comprising a polymerizable liquid comprising a liquid unsaturated alkyd resin obtained by the esterification of a mixture of ingredients comprising a polyhydric alcohol and an ethylenically unsaturated polycarboxylic acid and a polymerizable glycol ester of methacrylic acid and a filler selected from the class consisting of $Fe_2O_3$, $Cr_2O_3$, ZnO, $TiO_2$, $Ni_2O_3$ and $SiO_2$, the aforesaid filler comprising, by weight, from 45 to 70 percent of the total weight of the thixotropic composition.

2,645,627
**ACID ADSORBING RESIN ADSORPTION PRODUCT**
Edwin L. Gustus, Chicago, Ill.
No Drawing. Application April 23, 1948, Serial No. 22,961
5 Claims. (Cl. 260—45)

1. A composition of matter comprising a polyamine aldehyde acid adsorbing resin complex with a mono alkyl ester of sulfuric acid having between 6 and 30 carbon atoms.

2,645,628
**VINYL POLYSILOXANE COMPOSITIONS**
Dallas T. Hurd, Burnt Hills, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 30, 1951, Serial No. 218,537
6 Claims. (Cl. 260—46.5)

1. A resinous composition of matter comprising a polymerizable monovalent hydrocarbon-substituted polysiloxane wherein the hydrocarbon radicals consist of both (a) vinyl radicals, and (b) monovalent radicals selected from the class consisting of alkyl and aryl radicals, all the aforementioned hydrocarbon radicals being present in the ratio of from 1.2 to 1.8 total hydrocarbon radicals per silicon atom and are directly attached to the polysiloxane silicon atoms by carbon-silicon linkages, the said vinyl radicals comprising from 1 to 20 per cent of the total number of silicon-bonded hydrocarbon radicals.

2,645,629
**ACCELERATED CONDENSING ORGANOPOLYSILOXANE COMPOSITIONS**
Siegfried Nitzsche, Burghausen, Upper Bavaria, Germany, assignor to Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie G. m. b. H., Munich, Bavaria, Germany
No Drawing. Application December 19, 1951, Serial No. 262,493. In Germany December 30, 1950
10 Claims. (Cl. 260—46.5)

1. The process for accelerating the condensation of an organopolysiloxane having an average degree of substitution of from 1 to 2 inclusive organic radicals per silicon atom, said organic radicals being attached to the silicon atoms by direct carbon to silicon linkage and at least some of the silicon atoms in said siloxane having at least one hydrogen atom bonded thereto, which comprises adding an aluminum chelate selected from the group consisting of chelates of aluminum with acetyl acetone, acetoacetic acid, esters of acetoacetic acid, and esters of malonic acid, to said siloxane in an amount sufficient to accelerate the condensation of said siloxane.

2,645,630

## PHENYLOL SILANE-FORMALDEHYDE TYPE RESIN

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Original application September 18, 1950, Serial No. 185,517, now Patent No. 2,611,777, dated September 23, 1952. Divided and this application January 28, 1952, Serial No. 268,666. In Great Britain November 29, 1949

5 Claims. (Cl. 260—53)

1. A silylphenol-formaldehyde type condensation resin comprising the reaction product of an alkylsilylphenol, in which all of the valencies of the silicon atom are satisfied by alkyl radicals and phenolic radicals, with hexamethylenetetramine.

2,645,631

## EMULSION COPOLYMERIZATION OF SULFUR DIOXIDE AND UNSATURATED ORGANIC COMPOUNDS

Willie W. Crouch, Bartlesville, Okla., and Ernest W. Cotten, deceased, late of Bartlesville, Okla., by Richard K. Harris, administrator, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application February 16, 1948, Serial No. 8,755

28 Claims. (Cl. 260—79.3)

2. In the production of a solid heteropolymeric resin resulting from interreaction of sulfur dioxide and monoolefinic organic material containing not more than twenty carbon atoms per molecule employing a catalytic agent, and employing at least one molecular equivalent of sulfur dioxide and five molecular equivalents of said organic material, the improvement which comprises conducting said reaction with said reactants being dispersed in an aqueous emulsion and recovering said resin from the emulsion.

2,645,632

## RESINOUS COPOLYMERS OF NUCLEARLY POLYSUBSTITUTED ISOPROPENYL BENZENES

Theodore A. Te Grotenhuis, Olmsted Falls, and Gilbert H. Swart, Akron, Ohio, assignors to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application February 23, 1950, Serial No. 145,902

21 Claims. (Cl. 260—80.7)

1. A resinous interpolymerization product comprising in copolymerized form (1) at least one isopropenyl benzene of not in excess of ten carbon atoms and consisting of carbon, hydrogen and chlorine, all of said chlorine being attached to a nuclear carbon atom, said isopropenyl benzene having only two substituents both of which are attached directly to nuclear carbons said isopropenyl benzene being further characterized by having both of the nuclear carbon atoms next adjacent that directly carrying the isopropenyl group connected to hydrogen and (2) at least one polymerizable mono-olefinic compound having no atoms other than C, H, N, Cl, Br and O in the molecule in which the olefinic group is directly connected to a radical more electronegative than alkyl, said radical being selected from the group consisting of —CN, acid anhydride, aryl, amide pyridyl, and —COOR groups where "R" is selected from the group consisting of hydrogen, alkyl, and substituted alkyl, said interpolymerization product comprising not in excess of 25 per cent by weight thereof of a conjugated di-olefinic compound.

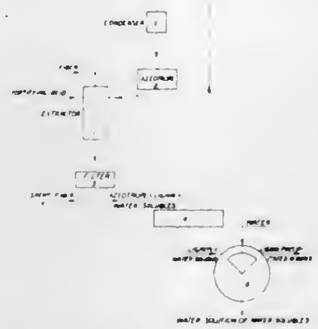
2,645,633

## PROCESS FOR EXTRACTION OF LIGNIN

James H. Richmond, Rochester, N. Y., and Robert M. Boehm and Harold Roy Hunt, Laurel, Miss., assignors to Masonite Corporation, Laurel, Miss., a corporation of Delaware

Application November 14, 1949, Serial No. 127,092.

5 Claims. (Cl. 260—124)



1. Process of extracting lignin from hydrolyzed lignocellulose material which comprises slurrying said material with a formic acid-water azeotrope at a temperature of about the boiling point of the azeotrope, distilling the azeotrope from said material, recovering the lignin from the azeotrope, and reusing the azeotrope to extract lignin from additional lignocellulose material.

2,645,634

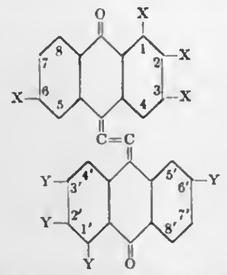
## SULFURIZED COMPOUNDS OF THE DIANTHRONE ETHYLENE SERIES AND PROCESS FOR MAKING THE SAME

Emil Schwamberger, Frankfurt am Main Fechenheim, Germany, assignor to Cassella Farbwerke Mainkur Aktiengesellschaft, Frankfurt am Main Fechenheim, Germany, a company of Germany

No Drawing. Application September 22, 1951, Serial No. 247,908. In Germany October 4, 1950

9 Claims. (Cl. 260—131)

1. Process which comprises treating a vat dyestuff of the dianthrone ethylene series, having the formula



wherein X is a member of the group consisting of hydrogen, alkyl and halogen and each Y is identical with the corresponding X of the same position in the other anthraquinone nucleus, with a condensing agent of the group customary for



the Friedel-Crafts reaction and consisting of the chlorides and bromides of aluminium and iron and with sulfurising agents of the group consisting of sulfur, alkali salts and halides of sulfurous acid, alkali sulfides, alkali hydrosulfites, sulfur chlorides.

2,645,635

## METHOD OF REGENERATING ELECTROLYTIC POLISHING SOLUTIONS

Harold F. Walton, Boulder, Colo., assignor to Shwayder Bros., Inc., Denver, Colo., a corporation of Colorado

No Drawing. Application June 27, 1949, Serial No. 101,672

24 Claims. (Cl. 204—140.5)

15. A method of regenerating an electrolytic polishing solution initially comprising from 35% to 70% of orthophosphoric acid, from 8% to 64% of at least one water-soluble polyhydric alcohol, from 1% to 12% of a mono-hydroxy mono-carboxylic acid, from 5% to 30% of water, and from 0 to 10% of an addition agent adapted to increase the brightness of an article polished in said solution, said solution having been utilized in electrolytic polishing, and, as a result, having dissolved therein at least one metal selected from the group consisting of copper, zinc, nickel, and cobalt, which method comprises adding to said solution a reagent selected from the group which consists of oxalic acid, calcium oxalate, barium oxalate, methyl oxalate, ethyl oxalate, glycol oxlate and glyceryl oxlate, said reagent being added in an amount sufficient to precipitate at least a portion of the dissolved copper, zinc, nickel and cobalt and less than the amount which will result in free oxalic acid being present in the solution when utilized again.

2,645,636

## REDUCTION OF AROMATIC NITROGEN COMPOUNDS

Allen Walter Sogn, Buffalo, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application September 9, 1950, Serial No. 184,123

23 Claims. (Cl. 260—143)

1. The improvement in the method of reducing an aromatic nitrogen compound containing nitrogen in a reducible form as a substituent in a benzene nucleus at a higher stage of oxidation than the hydrazo stage by the action of a metal alcoholate, which comprises carrying out the reduction in a reaction mixture in which a naphthoquinoid compound has been incorporated, whereby the reduction of the aromatic nitrogen compound is promoted.

2,645,637

## SYNTHESIS OF ADENOSINE-5'-TRIPHOSPHATE

Alexander Robertus Todd and Adolf Michael Michelson, Cambridge, England, assignors to National Research Development Corporation, London, England

No Drawing. Application July 28, 1950, Serial No. 176,554. In Great Britain July 20, 1949

3 Claims. (Cl. 260—211.5)

1. A process for the manufacture of straight chain adenosine-5'-triphosphate which comprises condensing dibenzyl chlorophosphonate with the di-silver salt of adenosine-5'-phosphate to effect direct phosphorylation of the latter, and subsequently removing the benzyl groups of the resulting tetra-benzyl adenosine-5'-triphosphate by hydrogenation.

2,645,638

## PENICILLIN SALTS OF N-METHYL-(2-HYDROXY-1,2-DIPHENYLETHYL)-AMINE

Vernon V. Young, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application January 22, 1952, Serial No. 267,695

7 Claims. (Cl. 260—239.1)

1. The penicillin salts of N-methyl-(2-hydroxy-1,2-diphenylethyl)amine.

2,645,639

## PRODUCTION OF CRYSTALLINE PENICILLIN SALTS

George H. Brown and Wendell C. Morrison, Princeton, N. J., and Earl W. Flosdorf, Forest Grove, Pa.; said Brown and said Morrison assignors to Radio Corporation of America, a corporation of Delaware

No Drawing. Application April 12, 1946, Serial No. 661,882

13 Claims. (Cl. 260—239.1)

1. The process for preparing pure, crystalline penicillin from a non-aqueous medium comprising neutralizing a solution of acid penicillin in an organic solvent immiscible with water, with a salt in solid form which is selected from the class consisting of carbonates and bicarbonates of the alkali and alkaline earth metals to form a penicillin salt of one of said metals in the solution, and evaporating said solvent under reduced pressure at low temperature to form crystalline penicillin.

2,645,640

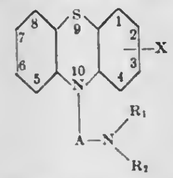
## PHENTHIAZINE DERIVATIVES

Paul Charpentier, Choisy-le-Roi, France, assignor to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a French body corporate

No Drawing. Application December 17, 1951, Serial No. 262,171. In France December 21, 1950

3 Claims. (Cl. 260—243)

1. A member of the class consisting of phenthiazine derivatives having the basic structural formula:



wherein X represents a member of the class consisting of chlorine and bromine atoms, in the 1 and 3 positions; A represents an alkylene chain containing from 2 to 5 carbon atoms; and $R_1$ and $R_2$ represent members of the class consisting of methyl and ethyl groups.

2,645,641

## SOLUBLE ONIUM SALTS OF HALOGENMETHYLATED ARYLAMINOPOLYCYCLIC QUINONES

Edgar E. Renfrew, Phillipsburg, N. J., and David I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

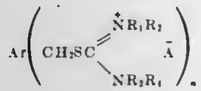
No Drawing. Application December 20, 1950, Serial No. 201,869

5 Claims. (Cl. 260—272)

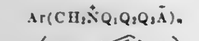
1. The soluble onium salts of halogenmethyl

derivatives of vat dyes of the class consisting of those having the formulae:

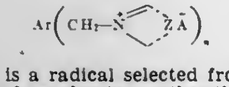
(1)



(2)



(3)



wherein Ar is a radical selected from the group consisting of arylamino-anthanthronyl, arylamino-dibenzpyrene quinonyl, and arylamino pyranthronyl radicals and is joined to the remainder of the molecule through the aryl group of the arylamino radical, $R_1$, $R_2$, $R_3$, and $R_4$ are members of the group consisting of alkyl, alkylene, aryl, and hydrogen, of which $R_2$ and $R_4$ may together form a closed ring system; $Q_1$, $Q_2$, and $Q_3$ are members of the group consisting of alkyl, alkylol, and alkaryl; Z indicates the C atoms necessary to complete a 6-membered ring system; Ā indicates a negative ion; and $n$ is an integer from 1 to 4.

2,645,642

## PROCESS FOR THE MANUFACTURE OF HYDROXY-INDAZOLES

**Dennis Arthur William Adams, Headingley, Leeds, and Robert Ronald Davies and Robert Hugh Wilson, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**

**No Drawing. Application October 11, 1951, Serial No. 250,948. In Great Britain October 19, 1950**

**3 Claims. (Cl. 260—310)**

1. A process for the manufacture of hydroxy-indazoles which comprises heating the corresponding aminoindazole with dilute sulphuric acid under super-atmospheric pressure at a temperature between about 150° C. and about 210 C. until the reaction is substantially completed.

2,645,643

## PROCESS FOR PRODUCING PHTHALOCYANINE COLORING MATTERS

**Hans B. Gottlieb, Glassboro, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application October 6, 1950, Serial No. 188,883**

**8 Claims. (Cl. 260—314.5)**

1. The process of converting a phthalocyanine coloring matter into a fine particle size adapted for use as a pigment in liquid organic paint vehicles, which comprises subjecting such coloring matter to ball milling with from 4 to 20 times its own weight of an inorganic, water-soluble salt, the mixture being milled having incorporated therein a water-immiscible, steam-distillable organic liquid in quantity from 0.1 to 0.5 part by weight for each part by weight of coloring matter in the mixture, said liquid being one which is characterized by its ability to transform the alpha form of copper phthalocyanine into the beta form, and said mixture having further incorporated therein a solvent-active dispersant selected from the group consisting of polytitanium esters of long-chain fatty acids and sorbitan esters of long-chain fatty acids in quantity of from 0.01 to 0.1 part by weight for each part by weight of coloring matter in the mixture.

2,645,644

## THIENYL HALOSILANES

**Philip A. Di Giorgio, Schenectady, N. Y., now by change of name Philip D. George, assignor to General Electric Company, a corporation of New York**

**No Drawing. Application June 25, 1949, Serial No. 101,483**

**1 Claim. (Cl. 260—329)**

Di-(2-thienyl)-dichlorosilane.

2,645,645

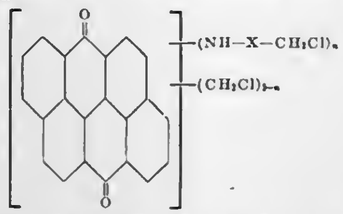
## CHLOROMETHYLATION OF ARYLAMINO-POLYCYCLIC QUINONES

**David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

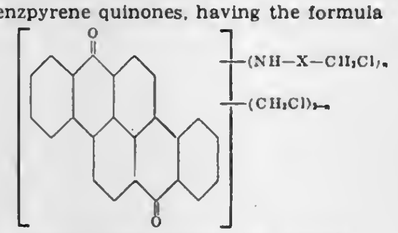
**No Drawing. Application December 20, 1950, Serial No. 201,868**

**4 Claims. (Cl. 260—359)**

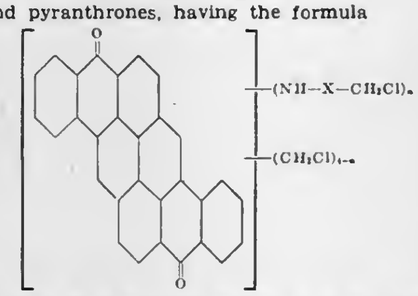
1. Vat dye intermediates selected from the group consisting of anthanthrones, having the formula



dibenzpyrene quinones, having the formula



and pyranthrones, having the formula



wherein X is an aryl radical, $n$ is an integer from 1 to 2, and $n$ is an integer from 1 to 4.

2,645,646

## CHLORMETHYL DERIVATIVES OF DIBENZANTHRONYL, DIBENZANTHRONE, AND ISODIBENZANTHRONE COMPOUNDS

**David I. Randall, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application February 10, 1950, Serial No. 143,596**

**3 Claims. (Cl. 260—363)**

1. The vat dye intermediates selected from the



halomethyl derivatives of a dibenzanthronyl, the latter which is selected from the group consisting of:



and



2,645,647

## CLEARING AGENTS FOR HISTOLOGICAL TISSUE

**Andrés Ferrari, Jr., Uniondale, N. Y., assignor to Technicon Chemical Company, Inc., New York, N. Y., a corporation of New York**

**No Drawing. Application August 29, 1950, Serial No. 182,145**

**2 Claims. (Cl. 252—364)**

1. A clearing agent for use in the preparation of histological tissue for microscopic examination, comprising the following ingredients in about the proportions, by volume, of 50% of N. butyl acetate, 37.5% of ethylene dichloride, and 12.5% of carbon tetrachloride.

2,645,648

## STABILIZATION OF GLYCERIDE OILS WITH OXYDIALKANOIC ACIDS

**Cyril D. Evans, John C. Cowan, and Arthur W. Schwab, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture**

**No Drawing. Application October 5, 1951, Serial No. 250,009**

**10 Claims. (Cl. 260—398.5)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A new composition of matter, a glyceride oil and a stabilizing amount of one of the group consisting of oxydiacetic acid and oxydipropionic acid.

2,645,649

## PROCESS FOR IMPROVING THE DRYING QUALITIES OF HYDROCARBON CO-POLYMER DRYING OILS

**Alfred E. Hoffman, Clarendon Hills, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**

**No Drawing. Application November 30, 1950, Serial No. 198,480**

**15 Claims. (Cl. 260—410.6)**

1. A process for improving the air-drying properties of a liquid co-polymer resulting from the co-polymerization of an aliphatic mono-isoolefin hydrocarbon and a conjugated diolefin hydrocarbon, each containing not more than about 8 carbon atoms per molecule, in the presence of hydrogen fluoride catalyst at a temperature of from about −100° to about 0° C., whereby the co-polymer contains organic fluorides, said process comprising separating said liquid co-polymer from the hydrogen fluoride catalyst and thereafter commingling therewith a polyhydric alcohol in the ratio of from about 1 to 1 to about 100 to 1 weight proportions of co-polymer to polyhydric alcohol, and subjecting the resultant mixture to reaction at a temperature of from about 50° to about 250° C. to effect substantial condensation of the hydroxyl groups of said alcohol with the organic fluorides in the co-polymer.

3. The process of claim 1 further characterized in that said co-polymer and polyhydric alcohol are reacted with a carboxylic acid.

2,645,650

## PRODUCTION OF OILSEED FLAKES

**Arnold L. Ayers and Cleveland R. Scott, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware**

**No Drawing. Application January 6, 1950, Serial No. 137,272**

**17 Claims. (Cl. 260—412.4)**

1. A process for the extraction of oil from a seed, which comprises the steps of grinding said seed; adjusting the moisture content of the ground seed to a value in the approximate range of 12–20 per cent, rolling said material so as to form a film of said material upon the roller, removing said film from said roller, forming said film into flakes, heating said flakes at a temperature in the approximate range of 180°–275° F. until their moisture content is further adjusted to a value in the approximate range 7–12 per cent and treating said flakes when their moisture content is in the range of 7–12 per cent in a continuous countercurrent solvent extraction step with an oil solvent so as to extract their oil content.

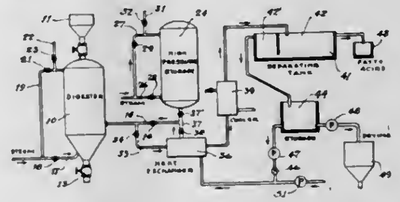
2,645,651

## RECOVERY OF FATTY ACIDS

**Everett N. Mortenson, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois**

**Application July 1, 1948, Serial No. 36,321**

**10 Claims. (Cl. 260—415)**



1. The method of recovering fatty acids from substances containing fatty material, which comprises: treating said substances with liquid water at temperatures and pressures whereby fatty acids contained in the substances are substantially dissolved in the water, the amount of water being such that the concentration of fatty acids in the resulting solution is between about 1 per cent and 3 per cent by weight, separating the fatty acid solution, cooling said solution to cause the fatty acids to precipitate, and separating the precipitated fatty acids from the water.

2,645,652

## FRACTIONATION OF OLEIFEROUS MATERIALS

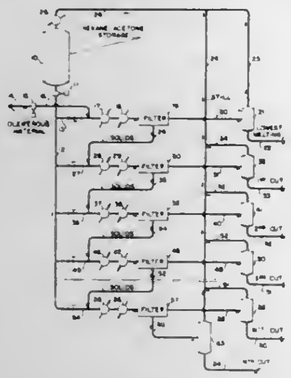
**Edward M. B. Pramuk, Whiting, and Frederick H. MacLaren, Munster, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana**

**Application October 13, 1950, Serial No. 190,008**

**12 Claims. (Cl. 260—419)**

1. The method of fractionating an oleiferous material which comprises dissolving said material

in about 10 to 20 volumes of a treating agent having a freezing point below −60° F. and consisting essentially of a light paraffinic hydrocarbon and a low boiling ketone with the ratio of paraffinic hydrocarbon to low boiling ketone being in the range of 30:70 to 90:10, cooling the resulting solution to a temperature of approximately −50° to −60° F. to obtain solids separable by filtration suspended in liquid treating agent containing unsolidified materials in solution, filtering to effect separation of the solids from a



first filtrate of treating agent containing dissolved material, removing treating agent from said first filtrate to recover a lowest melting fraction, admixing about 10 to 20 volumes of treating agent with separated solids to obtain a second solution, chilling said second solution to a low temperature which is higher than the temperature of the first filtration step, filtering the chilled second solution to obtain a second filtrate, recovering a fraction of the oleiferous material from the second filtrate and recovering at least one other fraction of the oleiferous material from the solids separated from the second filtrate.

2,645,653

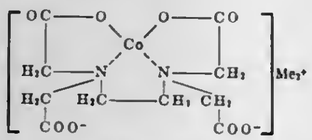
## ALKALI METAL SALTS OF A COBALT COMPLEX OF ETHYLENE-BISIMINO-DIACETIC ACID

**Werner Zerweck and Max Schubert, Frankfurt am Main Fechenheim, Germany, assignors to Cassella Farbwerke Mainkur Aktiengesellschaft, Frankfurt am Main Fechenheim, Germany, a company of Germany**

**No Drawing. Application February 20, 1951, Serial No. 211,979. In Germany March 6, 1950**

**1 Claim. (Cl. 260—439)**

As new compounds the complex cobalt compounds of ethylene-bisimino-diacetic acid corresponding to the formula:



(wherein Me means an alkali metal), which compounds are distinguished by their lack of toxicity and their good compatibility.

2,645,654

## SILOXANE-ALUMINUM COMPOSITIONS AND METHODS OF PREPARING THEM

**James F. Hyde, Corning, N. Y., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan**

**No Drawing. Application April 17, 1950, Serial No. 156,491**

**5 Claims. (Cl. 260—448)**

2. A cyclic compound wherein the ring is composed of silicon, oxygen and aluminum atoms, having the empirical formula $[R_2SiO_2AlCl]_2$ where R is selected from the group consisting of methyl, ethyl, and phenyl radicals and in which cyclic compound the silicon and aluminum atoms are linked through SiOAl linkages, the chlorine atoms are bonded to the aluminum atoms and the organic radicals are bonded to the silicon atoms.

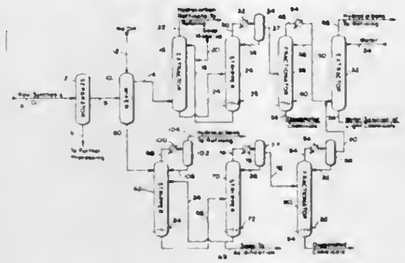
2,645,655

## RECOVERY AND PURIFICATION OF OIL SOLUBLE OXYGENATED COMPOUNDS

**Frank G. Pearce, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware**

**Application January 24, 1950, Serial No. 140,249**

**8 Claims. (Cl. 260—450)**



1. In a process for the recovery of non-acid oxygenated organic chemicals from hydrocarbon solutions thereof containing fatty acids, the steps which comprise neutralizing the acids present in said solution to obtain a two-phase mixture consisting of an essentially neutral oil layer containing non-acid oxygenated organic chemicals and a lower aqueous phase containing in the form of their corresponding salts essentially all of the acids originally present in said hydrocarbon solution together with minor amounts of solubilized hydrocarbons and non-acid oxygenated organic chemicals, subjecting said neutral oil layer to extraction with a 20 to 50 weight per cent aqueous solution of salts derived from a mixture of aliphatic carboxylic acids having an average molecular weight of from about 85 to about 115, thereafter subjecting the resulting extract to distillation to obtain overhead a fraction comprising said chemicals and a minor amount of hydrocarbons, subjecting said overhead fraction to distillation up to a temperature of from about 90° to about 110° C., collecting an overhead portion therefrom consisting essentially of hydrocarbons, withdrawing a bottoms fraction of oil soluble oxygenated organic chemicals essentially free from hydrocarbons, subjecting said lower aqueous phase to extractive distillation with a solution of aliphatic carboxylic acid salts derived by neutralizing the free acids in said hydrocarbon solution to obtain an overhead comprising hydrocarbons essentially free from chemicals, withdrawing a bottoms fraction comprising said last mentioned carboxylic acid salts rich in chemicals and subjecting said bottoms to distillation to give an overhead containing chemicals and a decreased amount of hydrocarbons, and thereafter fractionating the latter up to a temperature of about 150° C. to obtain a distillate consisting essentially of hydrocarbons and withdrawing a bottoms of organic chemicals substantially free from hydrocarbons.



2,645,656

## PRODUCTION OF SURFACE ACTIVE SULFATES

**Wilfred John Oldham and Max Marin Wirth, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company, Limited, London, England, a British joint-stock corporation**

**Application July 13, 1950, Serial No. 173,658**

**In Great Britain July 19, 1949**

**40 Claims. (Cl. 260—457)**

40. A process for the production of a surface active agent which comprises reacting an hydroperoxide selected from the group consisting of long chain alkyl hydroperoxides, alkyl naphthene hydroperoxides and mixtures thereof with sulphur dioxide to produce a sulphate selected from the group of alkyl hydrogen sulphates, alkyl naphthene hydrogen sulphates and mixtures thereof, and reacting said sulphate produced with a basic substance selected from the group consisting of metal oxides, metal hydroxides, metal carbonates, ammonia and organic bases to form a salt of said sulphate.

2,645,657

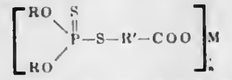
## THIOPHOSPHATE ESTERS

**Harry W. Rudel, Roselle Park, and Jones I. Wasson, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application March 30, 1949, Serial No. 84,482**

**9 Claims. (Cl. 260—461)**

1. As a new composition of matter a compound of the formula—



where R is a hydrocarbon radical selected from the group consisting of alkyl radicals, saturated cycloaliphatic radicals, aromatic radicals, aralkyl radicals, and alkaryl radicals, the radicals having not less than 2 and not more than 30 carbon atoms each; R′ is a saturated aliphatic hydrocarbon radical containing 1 to 20 carbon atoms; M is a member of the group consisting of hydrogen and alkaline earth metals; and n is a number from 1 to 2.

2,645,658

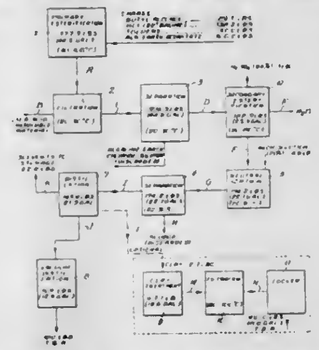
## PREPARATION OF ALKYL ESTERS OF ACONITIC ACID

**Howard F. Reeves, Jr., Chattanooga, Tenn., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois**

**Application February 21, 1949, Serial No. 77,662**

**10 Claims. (Cl. 260—485)**

1. The process of preparing esters of aconitic acid from alkaline earth aconitates which comprises, in combination, heating alkaline earth aconitate with a mixture of an acid selected from the group consisting of sulfuric acid and hydrochloric acid and a primary alcohol containing from 3 to 12 carbon atoms thereby effecting formation of aconitic acid and partial esterification thereof and forming an alkaline earth salt of said mineral acid, mechanically separating the solution of aconitic acid and aconitic ester in said alcohol from the remainder of the reaction mass, substantially completely esterifying



the free aconitic acid, and recovering the aconitic ester.

2,645,659

## SULFUR-CONTAINING ETHERS OF POLYHYDRIC ALCOHOLS AND DERIVATIVES THEREOF

**Rupert C. Morris and John L. Van Winkle, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application August 29, 1949, Serial No. 113,024**

**10 Claims. (Cl. 260—488)**

10. A compound of the group consisting of alpha-(hydrocarbothioalkyl) ethers of aliphatic open-chain polyhydric alcohols containing from 2 to 4 hydroxyl groups and no more than 12 carbon atoms, alpha-(hydrocarbosulfinylalkyl) ethers of aliphatic open-chain polyhydric alcohols containing from 2 to 4 hydroxyl groups and no more than 12 carbon atoms, alpha-(hydrocarbosulfonylalkyl) ethers of aliphatic open-chain polyhydric alcohols containing from 2 to 4 hydroxyl groups and no more than 12 carbon atoms, esters of the aforedescribed alpha ethers containings at least one free esterifiable hydroxyl group and aliphatic monocarboxylic acids containing at least six carbon atoms, and esters of the aforedescribed alpha-ethers containing at least one free esterifiable hydroxyl group and polycarboxylic acids containing at least 3 carbon atoms.

2,645,660

## EXCESS ACID PROCESS FOR THE MANUFACTURE OF ESTERS

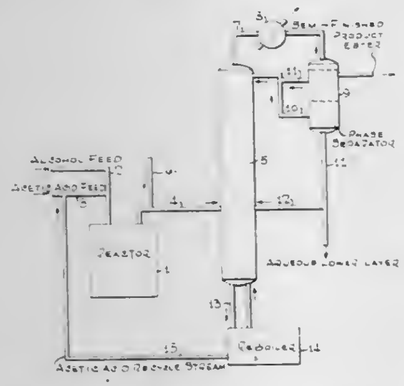
**William M. Drout, Jr., Clark Township, Union County, and William G. Emerson, Jr., Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**Application May 16, 1951, Serial No. 226,596**

**9 Claims. (Cl. 260—488)**

6. A continuous process for preparing secondary butyl acetate, which comprises the steps of reacting initially in a reaction zone an excess of acetic acid with secondary butyl alcohol, the initial volume ratio of acetic acid to secondary butyl alcohol being not over about 3 to 1, in the presence of a sulfuric acid catalyst present in an amount of from 1.0 to 1.5 wt. % but in the absence of extraneous water; taking off a vaporous reaction mixture comprising secondary butyl acetate, alcohol, acetic acid, and water from the reaction zone; adding additional water to the vaporous mixture to make up the secondary butyl

acetate, secondary butyl alcohol, water azeotrope; feeding the vaporous reaction mixture with added water to an intermediate portion of a distillation zone; withdrawing as bottoms from the distillation zone a liquid fraction consisting of at least 97 wt. % acetic acid; recycling this withdrawn liquid acetic acid to the reaction zone; taking overhead from the distillation zone an azeotrope of secondary butyl alcohol, water, and secondary butyl acetate; condensing this overhead product and separating the condensate into an ester phase and an aqueous phase containing the alcohol.




2,645,661

## MANUFACTURE OF FORMIC ACID

Ambrose G. Taylor, Ardrossan, and Walter A. Caldwell, Seamill, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

Application April 18, 1949, Serial No. 88,102
In Great Britain May 26, 1948
7 Claims. (Cl. 260—542)

1. A process for producing formic acid which comprises forming a pasty mass by chemically interacting a mixture consisting substantially of an alkaline earth metal formate with substantially an equal molecular quantity of sulfuric acid diluted with an aqueous solution of formic acid, the ratio of sulfuric acid to formic acid being greater than 1, continuously adding and tumbling said pasty mass on a heated surface rotating about a substantially horizontal axis, continuously distilling and withdrawing the volatilized formic acid, and continuously removing the resultant solid granules formed from said surface.

2,645,662

## MANUFACTURE OF DIPHENYLAMINE

Robert H. Nimmo, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application July 25, 1947,
Serial No. 763,749
11 Claims. (Cl. 260—576)

1. The process of producing diarylamine by deammoniating a primary aromatic amine which comprises subjecting a liquid primary aromatic amine to the combined action of aluminum halide and the hydrohalide of said primary aromatic amine in the proportions of at least three mols of said hydrohalide for each mol of aluminum halide and between about 5 and 15 parts of primary aromatic amine for each part of said hydrohalide at a temperature between about 275° C. and about 350° C. and at a pressure sufficient to maintain the primary aromatic amine in the liquid state.

2,645,663

## PREPARATION OF ALKYL SUBSTITUTED AROMATIC KETONES

Lawrence W. Newton, South Charleston, W. Va., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application April 13, 1951,
Serial No. 220,989
9 Claims. (Cl. 260—591)

1. A process for making aromatic ketones which comprises forming a mixture of phosphorus oxychloride, $POCl_3$; an alkyl-substituted aromatic hydrocarbon, $R^1H$, having a molecular weight of at least 92, and an aromatic carboxylic acid, $R^2COOH$, composed of carbon, hydrogen, and oxygen and which is free of groups reactive with phosphorus oxychloride, other than carboxyl; heating the mixture to a temperature at which hydrogen chloride is evolved therefrom to form an alkyl-substituted aromatic ketone of the general formula $R^1COR^2$ in which $R^1$ and $R^2$ are the radicals of the alkyl-substituted aromatic hydrocarbon and the aromatic carboxylic acid respectively; and recovering the alkyl-substituted aromatic ketone from the reaction mixture.

2,645,664

## RECOVERY OF SELENIUM

David James Hadley, Epsom Downs, and Robert Heap, Cheam, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application July 11, 1949, Serial No. 104,148. In Great Britain August 18, 1948
2 Claims. (Cl. 260—604)

1. In the process of oxidising olefines with free oxygen-containing gases by passing the mixture in the presence in the reaction zone of elementary selenium over a copper containing contact material to produce thereby unsaturated aldehydes and cooling the gaseous mixture issuing from said reaction zone, whereby a deposit consisting essentially of selenium and selenium oxide is formed, the step of recovering elementary selenium from the said deposit containing selenium and selenium oxide which consists of subjecting said deposit to a heat treatment at temperatures exceeding 240° C. in an inert atmosphere.

2,645,665

## FORMALDEHYDE PURIFICATION PROCESS

John C. Walker, Westfield, N. J., and Bernard O. Heston, Norman, Okla., assignors to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware

No Drawing. Application April 7, 1948,
Serial No. 19,634
13 Claims. (Cl. 260—606)

1. A process for the purification of aqueous formaldehyde solutions comprising contacting in countercurrent an aldehyde solution containing unsaturated alcohols and other odor bodies and acids with a solvent selected from the group consisting of ethers and esters having the formula ROR′ and RCOOR′ in which R and R′ are alkyl radicals containing not more than five carbon atoms, in a ratio of from 0.5 to 7.0 parts of solvent to 1.0 part of aldehyde solution.



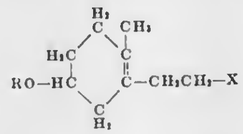
2,645,666

## HALOETHYLHYDROCARBONOXYCYCLOHEXENES

John A. Hogg, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application February 24, 1951,
Serial No. 212,675
9 Claims. (Cl. 260—611)

1. A 1-methyl-2-(β-haloethyl)-4-hydrocarbonoxycyclohexene having the formula:



wherein R is a hydrocarbon radical containing from one to seven carbon atoms, inclusive, and X is a halogen atom.

2,645,667

## CONDENSATION OF ALCOHOLS IN THE PRESENCE OF CALCIUM HYDROXIDE

Edward E. Burgoyne, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 1, 1951, Serial No. 249,092
17 Claims. (Cl. 260—618)

1. A process for converting a lower molecular weight, normal, primary alkanol to a higher molecular weight alcohol in which the number of carbon atoms per molecule is a nonintegral multiple of the number of carbon atoms per molecule of the lower molecular weight alkanol, which process comprises contacting said alkanol with soda-lime at a temperature from 375° to 580° C. and a pressure from 0 to 1000 p. s. i.

13. A process which comprises intercondensing a normal 1-alkanol having from 2 to 10 carbon atoms per molecule with another alcohol selected from the group consisting of 1-alkanols having 2 to 10 carbon atoms per molecule and benzyl alcohol and its homologues having 7 to 10 carbon atoms per molecule in the presence of soda-lime at a temperature from 375° to 580° C. and a pressure of 200 to 1000 p. s. i.

2,645,668

## CONDENSATION OF ALCOHOLS IN THE PRESENCE OF CALCIUM OXIDE

Edward E. Burgoyne, Bartlesville, Okla., and Francis E. Condon, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application October 1, 1951,
Serial No. 249,227
10 Claims. (Cl. 260—642)

1. A process which comprises condensing $m$ molecules of a normal primary alcohol having $n$ carbon atoms per molecule to obtain a higher alcohol having $mn-1$ carbon atoms per molecule, which process comprises contacting said normal primary alcohol at a temperature in the range 350 to 450° C. and a pressure in the range 200 to 1000 p. s. i. in the presence of a contact material consisting essentially of calcium oxide, $n$ being an integer in the range 2 to 8, and recovering said higher alcohol as a product.

2,645,669

## HYDROGEN TRANSFER PROCESS

Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application February 23, 1950,
Serial No. 145,904
19 Claims. (Cl. 260—668)

19. A trialkylcycloalkaaryl - (perhydrocycloalka)-indan hydrocarbon.

2,645,670

## PRODUCTION OF POLYALKYLATED AROMATIC HYDROCARBONS

Herman Pines and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 26, 1950,
Serial No. 192,368
5 Claims. (Cl. 260—668)

1. A process for producing 1,2,3,4-tetramethylbenzene which comprises reacting pinane at a temperature of from about 250° to about 425° C. in the presence of a platinum catalyst and a halide selected from the group consisting of a hydrogen halide and an alkyl halide to effect dehydrogenation and isomerization and form a reaction product containing 1,2,3,4-tetramethylbenzene and hydrogen, and recovering said tetramethylbenzene from the reaction product.

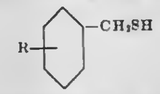
2,645,671

## STILBENE FROM BENZYL MERCAPTAN

Leonard A. Mattano, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application June 20, 1951,
Serial No. 232,663
8 Claims. (Cl. 260—668)

1. A process of making stilbene and stilbene derivatives comprising the steps of heating a benzyl mercaptan, having the structure:



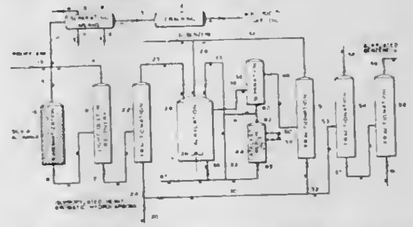
in which R is selected from the group consisting of hydrogen, alkyl and alkoxy radicals, at a temperature at least above about 150° C. in the presence of a sulfactive catalyst and separating a stilbene product from the reaction mass.

2,645,672

## ALKYLATION OF AROMATIC HYDROCARBONS

Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 2, 1948, Serial No. 42,112
2 Claims. (Cl. 260—671)



1. A process for the manufacture of a high molecular weight alkyl benzene, comprising

cracking a petroleum fraction having a boiling range above 400° F., recovering from the product of said cracking a fraction containing aromatic hydrocarbons in an amount within the limits of 5 to 40 per cent by weight and olefins in an amount within the limits of 10 to 50 per cent by weight and boiling in a range such that said olefins have not more than 20 and not less than 7 carbon atoms per molecule; admixing the cracking-product fraction, above described, with a low-boiling olefin having not more than 5 carbon atoms per molecule in an amount in molar excess over said olefins having from 7 to 20 carbon atoms per molecule and in a mol ratio to said aromatic hydrocarbons within the limits of 1.5:1 to 5:1, contacting the resulting admixture with a synthetic silica-alumina catalyst containing alumina in an amount not greater than 10 per cent and prepared by treating a hydrous silica gel with an aqueous solution of an aluminum salt to absorb not more than 10 per cent alumina on said silica and subsequently washing and drying the resulting silica-alumina gel, effecting said contacting at a temperature in the range of 200 to 500 p. s. i. g., and at a space velocity of from 1 to 5 volumes total liquid charge per catalyst volume per hour, whereby said aromatic hydrocarbons are alkylated with said low-boiling olefin and higher boiling olefins in said cracking-product fraction are substantially unreacted; recovering unreacted low-boiling olefin hydrocarbon from the reaction mixture and recycling same to the zone of said contacting; separating the thus formed alkylate from the reaction mixture thereby providing a cracking product substantially free of aromatic hydrocarbons and containing olefins having not more than 20 and not less than 7 carbon atoms per molecule; contacting the aromatics free fraction with an alkylatable benzene in the presence of a catalyst comprising liquid hydrogen fluoride at a temperature within the limits of 80 to 140° F., a pressure sufficient to maintain the reaction mixture in the liquid phase, for a duration within the limits of 15 to 80 minutes at an overall mol ratio of olefin to said alkylatable benzene within the limits of 1:4 to 1:10 and at a catalyst to hydrocarbon volume ratio within the limits of 1:1 to 1:5, separating total effluent from said contacting in the presence of liquid hydrogen fluoride into a liquid hydrocarbon-rich phase and a liquid hydrogen fluoride-rich phase, recycling at least a portion of said hydrogen fluoride phase to the zone containing said hydrogen fluoride catalyst, separating unreacted alkylatable benzene from said hydrocarbon phase and recycling said benzene to said zone containing hydrogen fluoride, separating paraffins boiling below about 500° F. from the hydrocarbon phase thus free of said alkylatable benzene, and recovering from the remaining hydrocarbon phase a high molecular weight alkyl benzene boiling in the range of 500 to 700° F. as a product of the process.

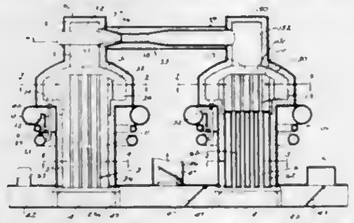
2,645,673

### PROCESS OF PRODUCING ACETYLENE

**Rudolph Leonard Hasche, Johnson City, Tenn., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**Application December 8, 1945, Serial No. 633,846**

**6 Claims. (Cl. 260—679)**



1. A process of producing an off gas which contains a substantial amount of acetylene from an in-gas containing a suitable stock hydrocarbon which can be pyrolyzed to produce acetylene which comprises firing in the same direction a first and a second substantially adjacent regenerative heating zones, the second zone being fired to above 2000° F. and to a higher temperature than the first zone, purging the zones, passing the in-gas into the first regenerative zone at a point in the zone substantially opposite from the point of firing, conducting the in-gas through the first zone and out thereof substantially at the point of firing, injecting a motivating gas into the gas which emerges from the first zone and conducting this motivated gas into the second hotter regenerative zone, the point of entry into the second hotter regenerative zone being substantially at the point of firing of the second zone whereby the motivated gas is heated to a relatively high temperature in less than $\frac{1}{10}$ of a second, causing the production of an acetylene-containing gas, quickly cooling this gas containing acetylene, stopping the flow of gas through said two regenerative zones before the temperature of the second zone falls below that at which the pyrolysis of gas to acetylene ceases and thereafter repeating the cycle.

2,645,674

### STABILIZED RUBBER ADHESIVE COMPOSITIONS

**Paul W. Kinney, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application November 2, 1950, Serial No. 193,758**

**3 Claims. (Cl. 260—759)**

1. A rubber adhesive composition comprising natural rubber, a solvent therefor, a small amount of an arylamine anti-oxidant and a small amount of benzoyl resorcinol.

## ELECTRICAL

2,645,675

### THERMOELECTRIC GENERATOR AND METHOD FOR PRODUCTION OF SAME

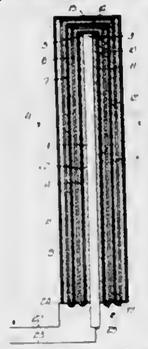
**Martin J. Arvin, Carterville, Ill., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin**

**Application June 2, 1950, Serial No. 165,801**

**4 Claims. (Cl. 136—4)**

1. A thermoelectric generator comprising first generally cup-shaped thermoelectric generator elements formed of thermoelectric material, second generally cup-shaped thermoelectric generator elements formed of thermoelectric material dissimilar with respect to the thermoelectric material of said first elements, said first and second elements being closed at their inner ends by inner end walls, said first and second elements being nested within one another with elements of different thermoelectric material arranged successively and having side walls extending outwardly from said inner end walls, said inner end walls of adjacent elements of different thermoelectric material being joined directly together in pairs, first insulating means disposed only between the side walls of the elements of each joined pair of elements in insulating only the side walls of said elements from each other, and second insulating means disposed between both the inner end walls and the side walls of adjacent joined pairs of said elements and insulating the joined pairs of said elements from each other.





2,645,676

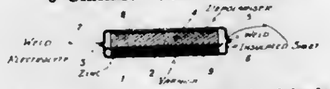
### METHOD OF ASSEMBLING AND INSULATING FLAT DRY CELLS

**Raymond Emériat, Paris, France, assignor to Societe de la Pile Leclanche, Chasseneuil-du-Poitou, France, a company of France**

**Application February 16, 1950, Serial No. 144,405**

**In France February 25, 1949**

**6 Claims. (Cl. 136—175)**



1. In a mode of mounting and of isolation for an element of a plurality of superposed flat constituents for a dry plate battery, the steps consisting of inserting the flat element between two sheets of flexible thermoplastic insulating material provided with openings for receiving electric contacts on the two faces of the element, shaping into form the sheets along the length of the faces and of the edges of the constituents of the element in such manner as to provide a small annular chamber around the edges of the constituents of the element, then welding and simultaneously cutting off by heat the two sheets according to their line of contact around the edges of the constituents, so that the element is finally enveloped in a covering in one single smooth piece on all of its surface outside of the welding line.

2,645,677

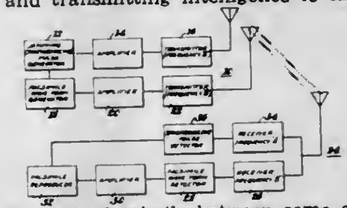
### METHOD AND MEANS FOR TRANSMITTING INTELLIGENCE

**Norman H. Young, Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation, a corporation of Delaware**

**Application September 5, 1942, Serial No. 457,407**

**13 Claims. (Cl. 178—5.1)**

1. The method of transmitting intelligence, which includes the steps of transmitting a plurality of jamming pulses at spaced predetermined intervals over a certain period of time, synchronizing a facsimile receiver by means of said jamming pulses, transmitting random jamming pulses between the synchronizing jamming pulses and transmitting intelligence to said receiver by rapid facsimile between some of said jamming pulses.



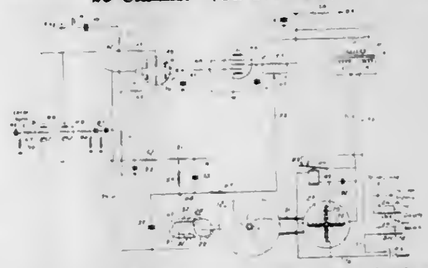
2,645,678

### COLOR TELEVISION

**John W. Christensen, Forest Hills, N. Y., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York**

**Application January 6, 1951, Serial No. 204,769**

**23 Claims. (Cl. 178—5.4)**



1. In a color television system employing a scanning device operating in synchronism with a synchronizing signal of predetermined periodicity, and a cooperating movable color filter element, apparatus for effecting synchronization therebetween which comprises a non-synchronous motor driving said color filter element and a generator actuated therewith to produce a local signal of periodicity varying with the filter element speed, one of said synchronizing and local signals having relatively short periodic pulses and the other having relatively longer periodic slope portions in one direction, a phase-comparing circuit supplied with said local and synchronizing signals and adapted to produce an output control wave which varies with the difference in phase between said pulses and said slope portions, speed control means supplied with said control wave for controlling the speed of said motor, and a gating circuit synchronized with the signal having said slope portions and connected to substantially prevent change in said output control wave during the intervals between said slope portions in one direction.

2,645,679

### METHOD OF CONTROLLING SUSCEPTANCE OF A POST TYPE OBSTACLE

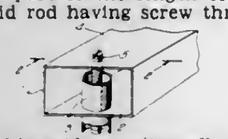
**Ralph B. Reade, Rye, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware**

**Application November 29, 1947, Serial No. 788,855**

**3 Claims. (Cl. 333—73)**

1. A susceptance control arrangement for hollow wave guides having walls defining a longitudinal channel, comprising a tubular obstacle extending tranversely and symmetrically of said channel through one wall of the guide interiorly thereof, and a rod extending through the opposite wall of the guide and entering into telescopic arrangement with the said tubular ob-

stacle for a part of the length of said tubular obstacle, said rod having screw threads thread-



ably received in said opposite wall whereby turning movement of said rod effects adjustment of said rod relative to said waveguide.

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**2,645,680**

## PULSE DISTRIBUTOR, INCLUDING ELECTRIC DISCHARGE DEVICES

**Alec Harley Reeves, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**

**Application October 3, 1947, Serial No. 777,818**
**In Great Britain October 3, 1946**
**8 Claims. (Cl. 179—15)**



1. A pulse distributor comprising an envelope, a plurality of electric gaseous discharge gaps each gap including two electrodes one of which is individual to said gap, means positioning successive gaps adjacent each other so that they are ionically coupled for causing the firing of one gap to prime the adjacent gap for firing, whereby the gaps are adapted to be fired successively, means for initially firing one of said gaps, means for applying a series of pulses to said gaps in parallel, each pulse firing a successive gap, and a separate utilization device connected in series with each gap.

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**2,645,681**

## TELEPHONE EQUALIZER CIRCUIT

**Estill I. Green, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application April 11, 1950, Serial No. 155,329**
**6 Claims. (Cl. 179—81)**



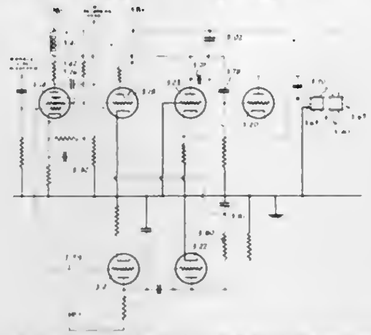
1. In a telephone circuit including a receiver, a transmitter and a direct-current energizing source, a first resistance element having a negative temperature coefficient of resistance in shunt connection with said receiver, a second resistance element having a negative temperature coefficient of resistance in shunt connection with said transmitter, and a heating element physically positioned so as to transfer heat energy to said first and second resistance elements, said heating element being connected in series with said direct-current energizing source, said transmitter, and a metallic telephone conductor so that the direct current flowing through said heating element varies inversely to the physical length of said telephone conductor.

**2,645,682**

## MAGNETIC RECORDING AND REPRODUCING

**Thomas E. Lynch, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio**

**Application September 12, 1947, Serial No. 773,636**
**3 Claims. (Cl. 179—100.2)**



1. In a magnetic record transducing apparatus for transducing signals by magnetic flux interlinkage between windings of a magnetic transducer core and successive elements of an elongated permanently magnetizable magnetic record track, an amplifying structure comprising: amplifying elements providing a number of amplifying stages for signal amplifications during recording and playback, all said number of stages being used for playback and less than all said number being used for recording, the output stage of the recording amplifier elements including a vacuum tube having an electron source for emitting electrons, an anode for collecting the electrons emitted from the source to form a main circuit through which said collected electrons are directed, a control electrode connected to a source of signals to be amplified for modulating the passage of electrons from said source to the anode and producing amplified signal currents in said main circuit, and a screen electrode placed between the electron source and the anode for helping to maintain the passage of large quantities of electrons from said source to said anode in spite of decreases in anode potential; said output stage having a main signal output supplied by a connection to said anode and a secondary output supplied by a connection to said screen electrode for further amplification to provide monitor signals to indicate the progress of the recording.

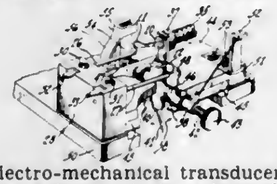
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**2,645,683**

## ELECTROMECHANICAL TRANSDUCER

**Leslie J. Anderson, Moorestown, N. J., and Robert K. Duncan, Woodburn, Ind., assignors to Radio Corporation of America, a corporation of Delaware**

**Application December 17, 1949, Serial No. 133,572**
**14 Claims. (Cl. 179—100.41)**



3. An electro-mechanical transducer comprising a semi-conducting body, a base electrode in fixed contact with said body, collector and emitter electrodes, disposed in spaced apart relation with respect to each other and each having a movable



contact with said body, and means in operative connection with said base electrode for moving said base electrode and said body with respect to said collector and emitter electrodes thereby to vary the distance between said collector and emitter electrodes without substantially changing the contact pressure between said collector and emitter electrodes and said body.

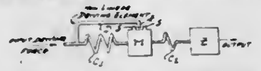
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**2,645,684**

## NOISE DISCRIMINATING SYSTEM

**Harry F. Olson, Princeton, and John Preston, Metedeconk, N. J., assignors to Radio Corporation of America, a corporation of Delaware**

**Application June 30, 1948, Serial No. 36,197**
**16 Claims. (Cl. 179—115.5)**



1. In signal translating apparatus, a vibrating system for discriminating against undesirable signals comprising a driving member supported for vibratory movement in response to an external driving force acting upon said driving member, translating means for translating the vibratory movements of said driving member, at least two compliances connecting said driving member to said translating means, said compliances being connected in series, and shunting means associated with said driving member for selectively shunting one of said compliances for selected signals.

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**2,645,685**

## MULTIPOSITION SWITCH

**Gene M. Neff, Racine, Wis., assignor to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin**

**Application January 10, 1952, Serial No. 265,755**
**4 Claims. (Cl. 200—11)**



1. A multi-position electrical switch for controlling any one of a plurality of circuits comprising: an insulative terminal plate having a flat upper surface; a plurality of fixed contacts on said terminal plate exposed at its upper surface and spaced at equal radial distances from a common center and at equal circumferential distances from one another; a housing having a top wall spaced above and substantially parallel to said terminal plate and a pair of side walls extending downwardly from said top wall and secured at their bottoms to said terminal plate; a substantially mushroom shaped actuator having its stem portion extending upwardly through a hole in said top wall of the housing and rotatably journaled therein and having its enlarged head at the underside of said wall of the housing, said actuator having a downwardly opening coaxial well; an insulative contact carrier between the head of the actuator and the upper surface of the terminal plate, said contact carrier having a conductive strip on its under surface of a size and shape to engage two of said stationary contacts simultaneously; means providing a splined connection between the actuator and the contact carrier; and a coiled compression spring in said well in the actuator reacting against the contact carrier to bias the contact carrier downwardly and thus carry the upper surface of its enlarged head into engagement with the underside of the top wall of the housing so that such engagement steadies the actuator against tilting displacement.

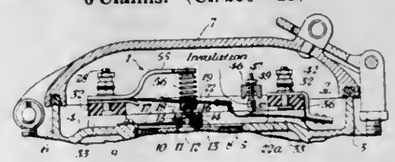
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**2,645,686**

## CIRCUIT CONTROLLER CONTACT ASSEMBLY

**Herbert L. Bone, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania**

**Original application September 30, 1948, Serial No. 52,095. Divided and this application April 28, 1951, Serial No. 223,623**
**6 Claims. (Cl. 200—18)**




1. Control apparatus, comprising a movable member, a plurality of spaced pairs of cooperating first and second flexible contact fingers, each finger being fixed at one end and having its free end overlapping the free end of its associated second finger, said fingers being biased toward each other, a contact operating member positioned by the movable member and extending transversely of said first fingers to move said first fingers away from said second fingers, stop means for limiting the movement of said second fingers toward said first fingers, said stop means comprising a bracket extending transversely of said second fingers, first and second groups of set screws adjustably fastened to said bracket, said first group when aligned with said second fingers establishing a first schedule of movement of said movable member at which said contact fingers separate, said second group of set screws when aligned with said second fingers establishing a second schedule of movement of said movable member at which said contact fingers separate, and means for moving said bracket longitudinally so as to move said groups of set screws selectively into alignment with said second fingers.

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**2,645,687**

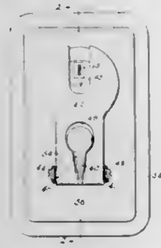
## INTERLOCK SWITCH AND RECEPTACLE

**Willard E. Parish, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York**

**Application February 20, 1951, Serial No. 211,855**
**3 Claims. (Cl. 200—50)**

1. A combination receptacle and switch unit comprising a housing, a switch mounted in the housing and having an actuating member extending forwardly through the face of the housing, a receptacle mounted in the housing and having plug receiving contacts exposed in the face of the housing, a cover member pivotally mounted on the housing and being movable from open to

closed positions and being operable in closed position to restrain separation of a plug from the receptacle, and said actuating member having a



portion overlying said cover when the switch is in the on position to prevent movement of the cover from closed to open position.

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2,645,688

## CIRCUIT BREAKING OPERATING LEVER

Woodrow A. De Smidt, Whitefish Bay, and Lynn H. Matthias, Fox Point, Wis., assignors to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin

Application August 25, 1952, Serial No. 306,264
9 Claims. (Cl. 200—50)



1. An enclosure for a circuit breaker having a movable operating lever capable of occupying spaced "off" and "on" positions and a "reset" position beyond the "off" position; said enclosure comprising a mounting shell within which said circuit breaker may be mounted with its operating lever facing outwardly, and a cover completing said enclosure movable to a closed position covering the outwardly facing operating lever of said circuit breaker; an actuating handle mounted on said cover movable between positions corresponding to the "off," "on" and "reset" positions of said operating lever; an intermediate member mounted on the interior side of said cover cooperatively engaged by said actuating handle to be moved thereby including a cover locking portion and throwing means engageable when said cover is closed with the operating lever of said circuit breaker for moving the same in response to movement of said actuating handle to and from said "off," "on" and "reset" positions; and a stationary locking member fixed with respect to said shell; said stationary locking member and said cover locking portion of said intermediate member comprising a post member having a head and a neck of a width less than that of said head, and a locking track with a gap disposed therein; said gap receiving said head of said post member when said cover is closed and said intermediate member is moved to position aligning said head and said gap in response to movement of said actuating handle, and said locking track and said stationary locking member engaging one another when said cover is closed to preclude opening of said cover for all positions of said actuating handle save that aligning said head with said gap.

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2,645,689

## CIRCUIT BREAKER WITH EXTENDED CONTACT TRAVEL

George A. Matthews, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York

Application July 15, 1948, Serial No. 38,890
6 Claims. (Cl. 200—111)



1. In an electromagnetically operated circuit breaker, the combination with an axially movable rod carrying a contact, a cooperating stationary contact, and spring means biasing said rod into position to engage said contacts, of an operating coil having an armature movable on energization of said coil axially in line with said rod and in a direction opposite the biasing action of said spring means, and a motion-multiplying connection between said armature and said rod, whereby energization of said coil results in a separation of said contacts by substantially more than the travel of said armature, said motion-multiplying connection comprising a frame secured to said armature, gear means rotatably mounted on said frame, a stationary rack with which said gear means is meshed, and a rack on said rod in mesh with said gear means.

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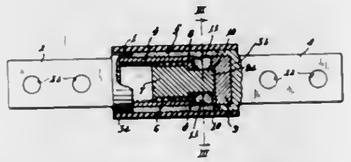
2,645,690

## THERMAL PROTECTOR FOR CONDUCTOR INSULATION

William S. Edsall, Boston, and Paul C. Hitchcock, Lawrence, Mass., assignors to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts

Application April 24, 1951, Serial No. 222,658
25 Claims. (Cl. 200—113)

1. An arrangement for the protection against overheating of the insulation of a conductor in an electric power circuit comprising an electric conductor adapted to carry heavy currents, means for insulating said conductor, a housing arranged in alignment with said conductor, separable contact means arranged within said housing, spring means for biasing said contact means to the open position thereof, solder means for conductively interconnecting said contact means and for normally restraining said contact means in the closed position thereof, the yielding point of said solder means being below the continuous danger temperature of said means for insulating said conductor, means within said housing for quenching the arc formed upon yielding of said solder means and separation of said contact means under the action of said spring means,



and current carrying means including connector means for carrying current from said conductor to said contact means and said solder means, the electrical and the thermal characteristics of said conductor and the electrical and the thermal characteristics of said current carrying means, said contact means and said solder means being so correlated that the temperatures at said solder means never throughout the load and overload range of said conductor exceeds the temperature at points of said conductor remote from said solder means.

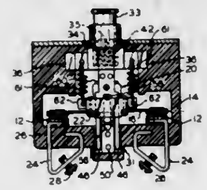
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2,645,691

## SNAP ACTION ELECTRIC SWITCH WITH OVERLOAD PROTECTION

Richard C. Ingwersen, Jackson, Mich., assignor to Mechanical Products, Inc., Jackson, Mich., a corporation of Michigan

Application October 24, 1951, Serial No. 252,909
9 Claims. (Cl. 200—116)



1. In an electric switch assembly, casing structure, fixed contact means in said casing structure, movable contact means positioned in said casing structure for engagement with said fixed contact means spring means connected with said movable contact means so as to be tensioned when the movable contact means are moved into engagement with the fixed contact means, actuator means connected with said movable contact means and mounted on said casing for movement to engage said movable contact means with said fixed contact means and tension said spring means, said tensioned spring means being operative to restore the movable contact means to the contact open position upon release from engagement with the fixed contact means, and separate spring means actuated by said actuator means to bias the movable contact means into contact making relation with respect to said fixed contact means upon movement of said actuator means to engage the contacts.

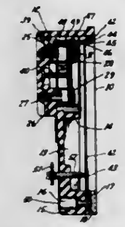


2,645,692

## THERMOSTATIC CONTROL

John D. Bolesky, Mansfield, Ohio, assignor to Adrian Medert, Cleveland, and Russell W. Bolesky, Mansfield, Ohio, trustees

Application October 27, 1949, Serial No. 123,930
8 Claims. (Cl. 200—139)



1. A thermostatic control device comprising a housing, spaced electrical terminals mounted within said housing, a current carrying member bridging the space between said terminals, said current carrying member being secured to one of said terminals and movable with respect to the other terminal, a snap element juxtapositioned below and freely movable with said current carrying member and adapted to engage and exert pressure against the free end thereof and maintain said end in engagement with the adjacent terminal and a thermo-responsive member arranged to act against the force of said snap element to move the free end of said current carrying member away from said other terminal when the device is subjected to a temperature of a predetermined value.

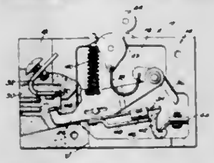
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2,645,693

## MOLDED CASING FOR ELECTRICAL APPARATUS

Thomas M. Cole, New York, N. Y., and Paul M. Christensen, West Orange, N. J., assignors to Federal Electric Products Company, Newark, N. J., a corporation

Application September 13, 1949, Serial No. 115,334
2 Claims. (Cl. 200—144)



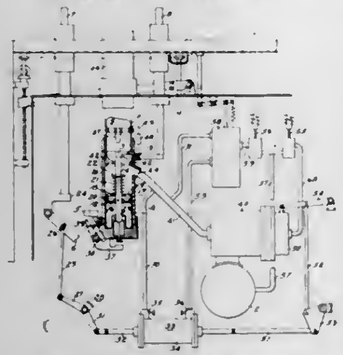
1. In a circuit breaker having mechanism including companion relatively movable contacts, actuating means for operatively effecting the engagement thereof and means for effecting the disengagement thereof in response to predetermined current in the circuit; a casing for enclosing said mechanism, said casing comprising companion complementary parts mutually secured in housing-defining relation for enclosing said mechanism, a separate casing portion defined by said companion complementary parts in the region adjacent said contacts, said separate casing portion defining an arc chute within said casing and being in integral relation with said complementary parts, each of the latter being formed of two insulation materials in integral relation, one of said materials having a higher arc-resistant characteristic than the other of said materials, said one material being formed in said separate casing portion to resist the arcing of said contacts.

2,645,694

## CROSS BLAST CIRCUIT BREAKER WITH ARCING CONTACTS CONTROLLING ORIFICE OF ARCING CHAMBER

Chester D. Ainsworth, Wollaston, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application February 15, 1949, Serial No. 76,468
5 Claims. (Cl. 200—148)



3. In an electric switching device the combination of an arcing chamber, a pair of separable abutting arcing contacts arranged within said chamber for initiating an arc, means for separating said arcing contacts to provide a gap therebetween, means connected to said chamber for producing an arc extinguishing blast of fluid under pressure across said gap, guiding means within said chamber and surrounding said contacts and said gap for defining a nozzle to direct substantially all said fluid passing through said gap over the engageable surfaces of said contacts in a single direction substantially perpendicular to the direction of movement of one of said contacts, said contacts when in the closed position thereof completely obstructing said nozzle, said nozzle comprising a first portion extending from the upstream end of said guiding means to said gap, a second portion extending through said gap substantially perpendicularly to the longitudinal axis of said gap, and a third portion extending from said gap to the downstream end of said guiding means, said first portion defining a concave surface and said third portion defining a concave surface, an arc runner forming a part of one of said arcing contacts for providing a path for movement of one terminal of said arc downstream of said nozzle, and means for providing a loop shaped path for the arc current including the said engageable surfaces of said contacts for magnetically biasing the arc formed upon initial separation of said contacts from the gap formed between said contacts into said nozzle.

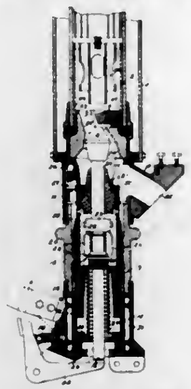
2,645,695

## ELECTRIC CIRCUIT BREAKER WITH ARCING CONTACTS IN SKEW BLAST

Philip L. Taylor, Abington, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application February 23, 1949, Serial No. 77,824
8 Claims. (Cl. 200—148)

2. In a fluid blast circuit breaker a member at least in part of insulating material forming a nozzle having a zone of restricted cross section between the openings thereof, means for producing a blast of fluid through said nozzle, a metallic plug element cooperating with said nozzle forming member for controlling said blast, a pair of separable contacts engaging within said zone of restricted cross section of said nozzle at a point spaced from the lateral wall thereof, one of said contacts being constituted by an arcing tip on the down stream end of said plug element, said plug element and said arcing tip being in the form of a solid of revolution, means for operating said plug element to open said nozzle and separate said contacts, and means for biasing a preponderant portion of the blast enveloping said plug element upon operation thereof in a direction oblique to the axis of said plug element, said biasing means including portions of the lateral wall of said nozzle inclined relative to said axis of said solid of revolution.

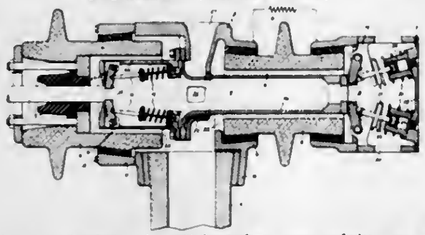


2,645,696

## ELECTRIC CIRCUIT BREAKER

Albert Roxburgh, Willesden, London, and Albert Leigh, Kenton, Harrow, England, assignors to General Electric Company, a corporation of New York

Application December 21, 1950, Serial No. 201,961
In Great Britain December 21, 1949
9 Claims. (Cl. 200—148)



1. An electric circuit breaker comprising a pair of interrupting contacts, a pair of isolating contacts arranged in series with respect to said interrupting contacts, resistance means connected in parallel with said interrupting contacts, means including a housing structure in which all of said contacts are normally disposed for directing a blast of pressure gas to said interrupting and said isolating contacts to cause separation thereof and to extinguish the arcs drawn therebetween during a circuit interrupting operation, an opening in said housing structure through which one of said isolating contacts is movable, and independent motivating means disposed outside said housing structure for withdrawing said one of said isolating contacts outwardly through said opening after interruption of the arc drawn at said isolating contacts so as to establish an isolating gap between said isolating contacts.

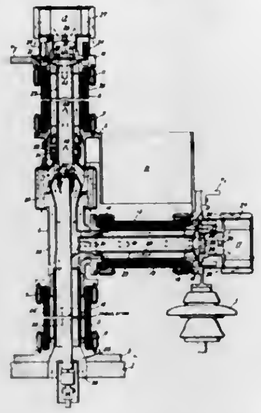


2,645,697

## ELECTRIC CIRCUIT BREAKER

John W. Beatty, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York

Application December 21, 1950, Serial No. 202,100
8 Claims. (Cl. 200—148)



1. An electric circuit breaker comprising conducting structure constructed of at least two relatively movable parts, first contact means normally biased into engagement with one of said parts of said conducting structure, second contact means normally biased into engagement with another of said parts of said conducting structure, said conducting being located in a position which is intermediate said first and second contact means, means for supplying a blast of pressure fluid to said first and said second contact means to cause predetermined separation thereof from the associated parts of said conducting structure, and means for moving one of said parts of said conducting structure relative to its associated contact means after movement of said contact means by said fluid blast to establish an isolating gap.

2,645,698

## NONARCING INTERRUPTING SWITCH

William C. Gregory, Compton, Calif.

Application January 4, 1949, Serial No. 69,205
4 Claims. (Cl. 200—150)



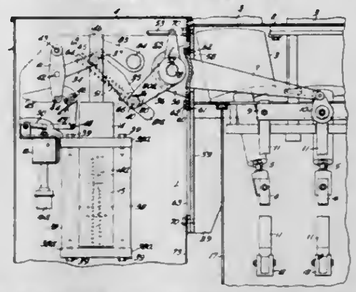
1. In a device of the class described a stationary member and a moving member, said members having a variable conductivity said variable conductivity obtained by using a plurality of materials having different conductivity, said materials united into a unit mass, said moving member adapted to make and break repeatedly at a predetermined speed an electric current, said moving member motivated at least in part by a fluid under pressure, the exhaust of said fluid quenching an arc of said current.

2,645,699

## BENCH ASSEMBLED CIRCUIT BREAKER OPERATING MECHANISM

Edwin C. Goodwin, Canton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application April 27, 1951, Serial No. 223,340
5 Claims. (Cl. 200—168)



1. A self-sustained structural unit comprising circuit breaker operating means; a collapsible toggle linkage operated by said means; a shaft operated by said toggle linkage; a bearing structure for said shaft including a wall adapted to be intersected by the geometrical axis of said shaft at more than two points, sections of said shaft between said points of intersection being situated at opposite sides of said bearing structure, said bearing structure supporting said shaft at least at two of said points of intersection and being adapted to form a substantially gas tight seal for an aperture; a mounting flange on the outer periphery of said bearing structure arranged in a plane parallel to said shaft; a gasket on said flange; and means for attaching said flange in a nonpermanent way to some other structure.

2,645,700

## SEMICONDUCTOR OF MIXED NICKEL, MANGANESE, AND IRON OXIDES

Francis J. Morin, Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 27, 1949, Serial No. 112,805
3 Claims. (Cl. 201—63)

1. A conductive device consisting essentially of a sintered body of the combined oxides of nickel, manganese and iron having a specific resistance and temperature coefficient of resistance dependent upon the atomic ratio of the constituent metals, said atomic ratio falling between the limits of

$$\frac{Mn+Fe}{Ni} \text{ of } 2.0 \text{ and } 4.0$$

and spaced electrodes connected to the body.

2,645,701

## ELECTRICAL RESISTOR AND RESISTANCE ELEMENTS THEREFOR

Frank Enoch Kerridge and Michael Belham, London, and Graham Pearce, Kingsthorpe, Northampton, England, assignors to Johnson, Matthey & Company Limited, London, England, and Painton & Company Limited, Kingsthorpe, Northampton, England, both British companies

Application May 10, 1951, Serial No. 225,478
In Great Britain January 25, 1950
17 Claims. (Cl. 201—63)

1. A method of making an electrical resistance element which comprises the steps of applying to

a glass filament a solution of the sulphoresinate of at least one metal selected from the group consisting of gold and platinum dissolved in an essential oil solvent mixture, firing said coated filament at a temperature sufficient to burn away



the organic matter and cause an adherent metallic film to adhere to said filament, and then winding a continuous length of said filament around the outer periphery of an insulating former, and in which the solution has the following composition, namely:

| | Percent |
|---|---|
| Gold (as sulpho-resinate) | 5.6 |
| Platinum (as sulpho-resinate) | 1.4 |
| Rhodium | 0.1 |
| Bismuth (as resinate) | 0.2 |
| Oil of turpentine | 43.0 |
| Oil of lavender | 18.0 |
| Nitro-benzol | 10.0 |
| Colophony | 21.7 |

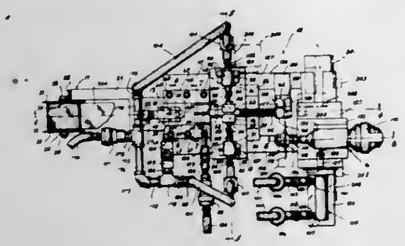
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**2,645,702**

## WIRE CLOTH TUBE FORMING MACHINE

**James J. Harmon, Jr., Clayton, Mo., assignor to Ludlow-Saylor Wire Co., St. Louis, Mo., a corporation of Missouri**

**Application December 4, 1950, Serial No. 199,069**
**16 Claims. (Cl. 219—6)**



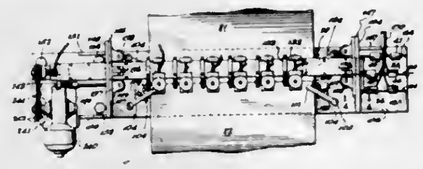
10. In a wire cloth tube forming machine comprising means to advance a continuous strip of wire cloth through a forming assembly wherein the edges of the strip are overlapped, means adapted to cooperate with conventional welding means for seam-welding overlapped edges of a tube to produce a seam-welded tube, and means for severing predetermined lengths from a seam-welded tube, in combination, a first power operated means to actuate said advancing means, a first electrically operable control associated with said first power means, a second power operated means to actuate said severing means, a second electrically operable control associated with said second power means, and an arrangement of electric circuit elements cooperating electrically with said first and second electrically operable means and with said conventional welding means and cooperating mechanically with said advancing means, with said conventional welding means, with said severing means, and with a seam-welded tube to effect a desired sequential operation of said advancing means, said welding means including said means cooperative therewith, and said severing means, thereby to provide for continuous automatic operation of said wire cloth tube forming machine.

**2,645,703**

## INERT GAS-SHIELDED ARC WELDING APPARATUS

**Robert E. Dahl, Hinsdale, Ill., assignor of one-half to Advance Transformer Co., Chicago, Ill., a corporation of Illinois**

**Application March 8, 1951, Serial No. 214,545**
**3 Claims. (Cl. 219—8)**



1. In apparatus of the character described, which is adapted to weld a butt joint between a pair of members along a weld juncture, a carriage having a plurality of welding heads adjustably mounted thereon, a support, standards upon the support having the ends of the carriage slidably mounted thereon, a mandrel upon said support, means for moving said heads into welding position upon said support, and means for moving the carriage a distance equal to that distance between adjacent welding heads plus a small overlap distance, means for starting the operation of said apparatus, means for initiating operation of said carriage moving means and also moving the heads into welding position simultaneously with starting the operation of the apparatus, means for leading electrical current to the welding heads shortly after starting the apparatus and when the trailing welding head reaches the edge of the members, means for stopping the flow of electrical current to the first head shortly before the end of the stroke of the carriage, and means for stopping the flow of current to the other heads and stopping the movement of the carriage and moving the welding heads out of position all simultaneously when the end of the stroke is reached.

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**2,645,704**

## UNIT ELECTRIC HEATER

**Paul Petersen and Anton J. Markuc, Milwaukee, Wis.**

**Application January 9, 1952, Serial No. 265,582**
**5 Claims. (Cl. 219—19)**



1. A portable electric heater comprising a group of plates of equal area, spacers of lesser area than said plates positioned between the plates of the group, and an electric heating element at one end of each of the group of plates and separated from said plate by a spacer, said plates having ends extended beyond the spacers and heating element.

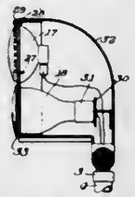


**2,645,705**

## FLOODLIGHT HAVING SEALED BEAM LAMPS FOCUSED TO FORM A SPECIFIC LIGHT PATTERN

**Harry E. Rutledge, Pittsburgh, Pa.**

**Application March 7, 1951, Serial No. 214,367**
**1 Claim. (Cl. 240—3)**



A pre-focused light for illuminating area of gasoline stations and the like comprising a hood having downwardly sloping back and sides joined with a bottom, mounting means on said hood to support the light in the air, a panel on the front of said hood and having a plurality of seat means in upper and lower tiers to receive light bulbs, sealed-in beam headlight bulb means providing wide elliptical light pattern mounted in said upper tier, sealed-in beam spotlight bulb means providing small circular light pattern mounted in said lower tier, socket means mounted in said hood to receive the base of said spotlight bulb means, said seat means and said socket means directing a combined light pattern with the wide elliptical light pattern of the headlight bulb means covering the outermost area and the circular light pattern of the spotlight bulb means intersecting the near side of the elliptical light pattern to form a predetermined light pattern of substantially uniform light intensity.

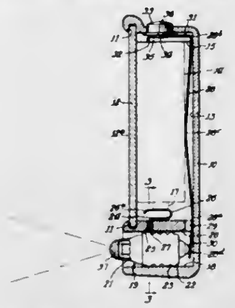
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**2,645,706**

## COMBINED MIRROR AND FLASHLIGHT

**Charles R. Bowland, Spring Valley, Ill.**

**Application September 27, 1948, Serial No. 51,369**
**2 Claims. (Cl. 240—4.2)**



1. In a flashlight, the combination of a hollow casing having a pair of slots formed therein, a mirror closing said casing and disposed in said slots and slidable in the slots to open the casing, an electric light bulb fixed in said casing and disposed so that light from the bulb is directed on objects in front of the mirror, a battery in said casing behind said mirror, and electrical conductor means completing an electric circuit including said battery and bulb for lighting the bulb, said conductor means comprising a spring conductor strip in spring pressed relationship between the inner surface of said casing and said battery to maintain the battery in frictional contact with said mirror to yieldably hold the mirror from sliding out of said slots, said strip extending longitudinally of said battery and contacting a terminal of said bulb at one end of the strip and having its other end movable into contact with a terminal of said battery against the spring action of the strip to complete the electric circuit.

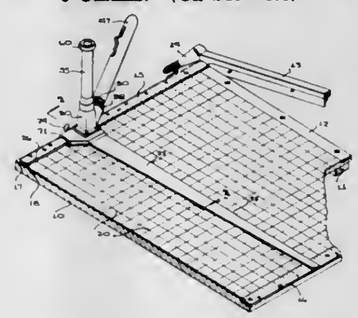
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**2,645,707**

## TRIMMING BOARD WITH ILLUMINATED SCALE

**Louis Sasse, East Chicago, Ind.**

**Application August 15, 1952, Serial No. 304,497**
**6 Claims. (Cl. 240—6.4)**



1. In combination with a trimming board having a flat bar mounted on and extending along one edge thereof and provided with under cut side edges, a flat slide slidably mounted on said bar for movement longitudinally thereof and having an opening therein, a guide blade secured at one end to said slide and extending therefrom over said board and substantially perpendicular to said bar, and a scale of lineal measurement on said bar visible through the opening in said slide, scale illuminating means comprising a hollow body mounted at one end on said slide in surrounding relationship to said opening and projecting from said slide in a direction away from said bar, said body including tubular sockets joined together at said one end of the body and diverging in a direction away from said bar with their distal ends spaced apart, a fitting mounted in the distal end of one of said sockets, a light filter in said fitting, and a flashlight mounted in said fitting and having a light emitting portion disposed adjacent said light filter, the distal end of the other of said sockets providing a sight opening for viewing the portion of said scale within the opening in said slide.

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**2,645,708**

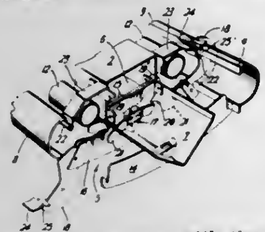
## MOUNTING PLATE FOR FIXTURES EMPLOYING ELONGATED TUBULAR LAMPS

**Robert G. Marchisio, Wenham, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**

**Application July 1, 1950, Serial No. 171,592**
**1 Claim. (Cl. 240—51.11)**

A lighting fixture comprising: an elongated channel chassis; end plates attached to the ends of said chassis; at least two reflectors disposed end-to-end beneath said chassis and extending parallel thereto with the ends of said reflectors disposed adjacent to said end plates mounted thereon; a plurality of transverse louvers mounted in each of said reflectors and depending therefrom; a mounting plate attached to said chassis intermediate the ends thereof between the adjacent ends of each of said reflectors;

means on opposite faces of said mounting plate for supporting the adjacent ends of each of said reflectors; a transverse louver on said mounting plate and disposed between the adjacent ends of each of said reflectors; at least two light-controlling panels disposed end-to-end, parallel to said chassis along each side thereof and spaced therefrom with the ends of said panels disposed adjacent to said end plates mounted thereon; a bracket mounted on each side of said



chassis above and in register with the transverse louver on said mounting plate, the free end of each of said brackets having a book portion on which the adjacent ends of each of said panels are supported; and a latch pivotally mounted on each end of said transverse louver on said mounting plate and disposed between the adjacent ends of said panels the free end of said latch overlying and frictionally engaging the adjacent ends of said panels at the points at which said panels are supported on said bracket.

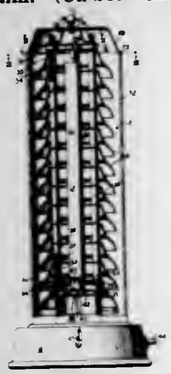
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**2,645,709**

**ORNAMENTAL FLUORESCENT STAND LAMP**

**Melvin C. Thorstensen, Berwyn, Ill.**

**Application April 29, 1947, Serial No. 744,598**
**1 Claim. (Cl. 240—51.11)**



In combination in a lamp structure for ornamental illumination effects, a base, a plurality of spaced supporting and guide rods extending upwardly from said base, a vertical series of inverted cup-shaped flaring sided reflectors having inner and outer reflecting surfaces, said reflectors having aligned central apertures for receiving a fluorescent lamp therethrough and also having aligned apertures through which said rods pass, a series of spacer sleeves encircling said rods and disposed in spacing relation between said reflectors and maintaining the reflectors with the respective lower margins thereof adjacent to but in laterally spaced relation to the tops of the immediately subjacent reflector in each instance, an electrical connector for said lamp supported by the base and engageable by the terminals of the lower end of a fluorescent lamp extending through the central apertures of the reflectors to effect an electrical connection with such terminals, an electrical connector for said lamp mounted above the uppermost of said reflectors on the upper ends of said rods, and electrical connections extending from the connector on the base upwardly through the upper portions of said reflectors and into electrical connection with said upper connector.

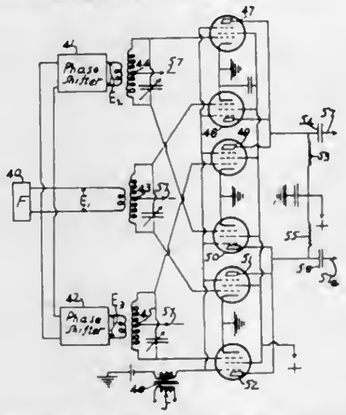
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**2,645,710**

**RADIO TRANSMISSION AND CARRIER WAVE MODULATION**

**Julius Hartz, New Orleans, La.**

**Application March 12, 1948, Serial No. 14,493**
**3 Claims. (Cl. 250—6)**




3. A modulating device for signal modulating a radio frequency comprising two pairs of vacuum-tubes each having a cathode, at least one grid and one anode, a radio frequency input circuit, a modulating signal input circuit, means connecting said radio frequency input circuit to the grids of said pair of tubes for applying the radio frequency to the grids of each pair of said tubes in opposite polarity and phase shifting means for applying the radio frequency to the grids of the first pair of said tubes and the second pair of said tubes so that the currents fed to the first pair of tubes will be ninety degrees out of phase with the currents fed to the second pair of tubes, a bias source coupled to said grids, means connecting said modulating signal input circuit to the grids of all of said tubes for applying the modulating signal to the grids of all of said tubes co-phasally, and resistance-capacity coupled means connected to the anodes of each pair of said tubes for combining the radio frequency portions repeated by each tube and conveying the signal modulated radio frequency currents in opposite polarity to the grids of a push-pull class-B amplifier.

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**2,645,711**

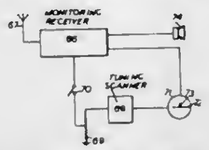
**PANORAMIC RECEIVER**

**René Hardy, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y.**

**Application May 24, 1943, Serial No. 488,297**
**In France June 30, 1941**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires June 30, 1961**
**12 Claims. (Cl. 250—20)**

2. A system for analyzing and monitoring a predetermined band in the radio frequency spectrum, which comprises a receiver, means repeatedly to tune said receiver through said frequency band, means to indicate the position in said band of any signals received by said receiver






as it is tuned through said band, a monitor receiver adapted to be tuned to another frequency within said band, and means to indicate on said indicating means the particular frequency to which said monitor receiver is tuned.

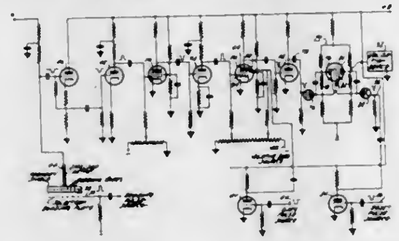
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**2,645,712**

**READING CIRCUIT FOR STORAGE TUBES**

**Jan A. Rajchman and Max H. Mesner, Princeton, and Milton Rosenberg, Trenton, N. J., assignors to Radio Corporation of America, a corporation of Delaware**

**Application December 1, 1949, Serial No. 130,411**
**5 Claims. (Cl. 250—27)**



1. The combination with a target area selecting tube wherein information is stored in each target area and wherein there are included means to derive a signal dependent upon the information stored in a selected target area, said signal being characterized by having spurious values, of means to interpret said signal to determine its true value comprising circuit means having a first and a second condition of stability, means to place said circuit means in said first condition of stability, normally closed electron switch means, said electron switch means having its input coupled to said means to derive a signal and its output coupled to said circuit means, and a gate pulse circuit including delay means operable to open said electron switch only after the time in which said spurious values may exist to permit application of a derived signal to said circuit means to alter the condition of said circuit means in accordance with said signal.

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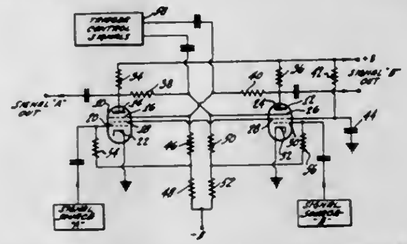
**2,645,713**

**GATING TRIGGER CIRCUIT**

**Dalton H. Pritchard, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application October 27, 1950, Serial No. 192,470**
**3 Claims. (Cl. 250—27)**

1. A system for random alternate amplification of signals from two signal sources comprising a trigger circuit including a first and a second electron discharge tube each having an anode, a cathode, a control grid and a suppressor grid, a first and a second three-tap voltage divider, means to apply an operating potential across said first and second voltage dividers, said first and second tube anodes being respectively connected to a first tap on said first and second three-tap voltage dividers, said first and second tube suppressor grids being respectively connected to a second tap on said second and first three-tap voltage divider, said first and second tube control grids being respectively coupled to a third tap on said second and first three-tap voltage dividers, means establishing a point of reference potential, the cathodes of said first and second tubes being connected to said point of reference



potential, the values of impedances of said first and second voltage dividers being determined to provide potentials at said first and second taps to maintain said first and second tubes stable with conduction in either one of said tubes and to provide a potential at said third taps such that a Class A bias is applied to the control grid in a conducting one of said first and second tubes, means coupling each of said two signal sources to each of said control grids and means to apply trigger control signals to said suppressor grids to transfer conduction between said first and second tubes.

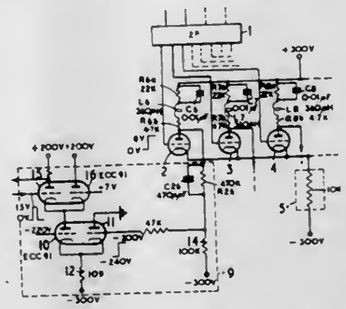
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**2,645,714**

**ELECTRICAL SIGNAL DISTRIBUTION SYSTEM**

**Edward Arthur Newman, Teddington, Donald Watts Davies, Southsea, and Ronald Fraser Braybrook, South Kensington, London, England, assignors to National Research Development Corporation, London, England, a British corporation**

**Application February 8, 1951, Serial No. 209,946**
**In Great Britain February 28, 1950**
**7 Claims. (Cl. 250—27)**



1. An electrical signal distribution system comprising a distribution matrix having a plurality of outputs, a plurality of thermionic valves having individual output circuits and individual grid circuits but a common cathode load, means connecting each of said matrix outputs to a respective individual grid circuit of one of the

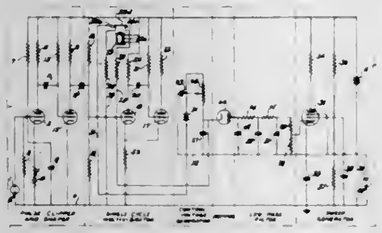
thermionic valves, and a gating circuit connected to the individual outputs of each valve, each gating circuit including thermionic valve means responsive to voltage changes in the said output to which the gating circuit is connected.

2,645,715

**CONSTANT AMPLITUDE SWEEP GENERATOR**

**Edward F. Weller, Jr., Detroit, Mich., and Richard G. Doyen, Milwaukee, Wis., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application February 12, 1951, Serial No. 210,515**
**11 Claims. (Cl. 250—27)**



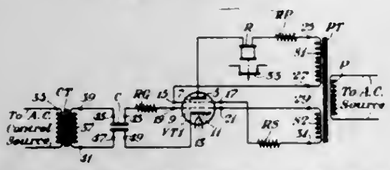
1. A constant amplitude sweep generator of the character described, including: a sweep generating condenser; a control condenser; charging circuit means connected to said condensers; means for developing recurring triggering voltage pulses; means for discharging both said condensers upon the occurrence of said pulses; and a circuit connecting said control condenser to the sweep generating condenser charging circuit means to regulate the charging rate of said sweep generating condenser as a function of the repetition rate of said pulses.

2,645,716

**ELECTRON TUBE CIRCUITS**

**Paul N. Martin, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**

**Original application August 24, 1948, Serial No. 45,937. Divided and this application December 1, 1951, Serial No. 259,399**
**1 Claim. (Cl. 250—27)**



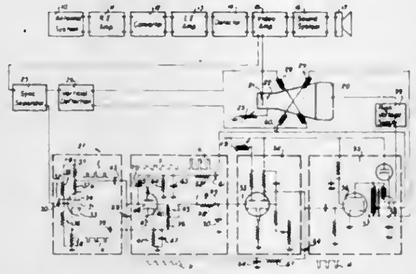
In combination, an electron tube having an anode, a cathode, a shield grid and a control grid; said shield grid and said control grid each having two terminals connected to different points of the grid to include at least a portion of the grid in series between the two terminals, a first source of energy for establishing a positive potential between said anode and said cathode, a second source of energy for establishing a negative potential between said shield grid and said cathode, a control circuit comprising an impedance across which a control voltage may be developed, a capacitor effectively connected in multiple with said impedance with respect to its charging or displacement current and with its plates effectively connected in series with said control circuit, said first source of energy being connected in series to said anode, said shield grid being connected in series with said first and said second sources, said control grid being connected in series with said second source and said control circuit and said cathode being connected in series with said control circuit, whereby all elements of the combination are connected in a series circuit.

2,645,717

**SYNCHRONIZATION CIRCUIT**

**Albert W. Massman, Wheaton, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois**

**Application August 18, 1951, Serial No. 242,527**
**17 Claims. (Cl. 250—36)**



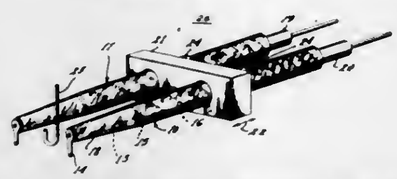
1. A system for synchronizing a generator with a synchronizing pulse wave, including in combination, an electron discharge valve having a cathode, an anode and a control grid, means for applying said synchronizing pulse wave to said cathode of said valve as a negative going wave and to said control grid thereof as a positive going wave, means for providing oppositely phased sawtooth voltage waves from the generator output and applying the same to said anode and said grid of said valve, resistance means having terminals connected to said grid of said valve and to said cathode thereof, and means coupled to said resistance means intermediate the terminals thereof for supplying to the generator a control voltage which varies in amplitude and polarity in accordance with the phase of the output of the generator with respect to the phase of said synchronizing pulse wave for controlling the frequency of the generator.

2,645,718

**VARIABLE INDUCTANCE STRUCTURE**

**Eugene O. Keizer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application June 6, 1950, Serial No. 166,428**
**6 Claims. (Cl. 250—40)**



1. A variable resonant structure for varying the tuning response of an electrical circuit comprising a pair of inductors, each having a substantially straight support of insulating material, a metallic helical ribbon disposed about each of said supports, each of said ribbons having a pitch varying along its length in a predetermined manner, a dielectric layer disposed about each of said ribbons, a terminal connected to one end of each of said ribbons, a metallic slider surrounding a short portion of the axial length of each of said inductors and spaced therefrom by said dielectric layer to form a capacitance between each inductor and said slider, said slider being movable along said inductors to vary the inductance existing between said terminals and said slider, a high loss element disposed about each of said layers, said elements being disposed between the other end of each of said inductors and said slider and being secured to said slider, a radio signal pickup element coupled to one of said inductors, and capacitive means connected between said terminals.

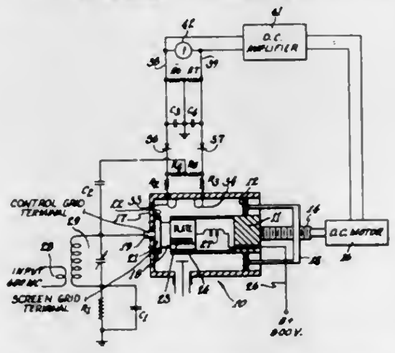


2,645,719

**AUTOMATIC TUNING CIRCUIT**

**Arnold M. Bucksbaum, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**

**Application September 16, 1950, Serial No. 185,278**
**2 Claims. (Cl. 250—40)**




1. Means for automatically maintaining a cavity resonator at resonance comprising, tuning means movable longitudinally of said cavity resonator, driving means connected to said tuning means, a first and second loop mounted closely adjacent to each other and oriented 180 degrees with respect to each other so as to pick up voltages of opposite phase, an electronic valve mounted within said cavity, a driving signal supplied to the grid of said electronic valve, a 90 degree phase-shifter connected to said grid, signal adding means receiving the output of said phase shifter to add it separately to the outputs of the first and second loops, voltage comparing means receiving the outputs of said adding means to give an output proportional to the difference between the incoming signals, and the output of said comparing means supplied to the driving means.

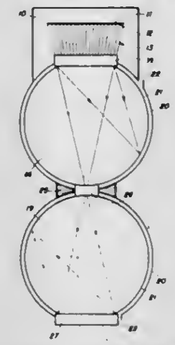
2,645,720

**X-RAY DIFFRACTION DEVICE**

**Siegfried T. Gross, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**Application December 13, 1950, Serial No. 200,640**
**2 Claims. (Cl. 250—53)**

1. A diffraction device comprising a housing, a plate within said housing coated with a radioactive isotope as the source of characteristic radiation, a Soller slit adjacent to said plate, means for holding a sample at the opposite end of said slit from said plate, a photographic film holding means arranged as a semi-circle about said sample holding means at the opposite side from said plate, an aperture in said film holding means directly opposite said sample holding means, and a second sample holding means and a second film holding means adapted to surround the area between said aperture and said second sample holding means.

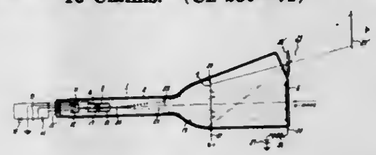


2,645,721

**IMAGE INTENSIFICATION APPARATUS**

**Ferd E. Williams, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

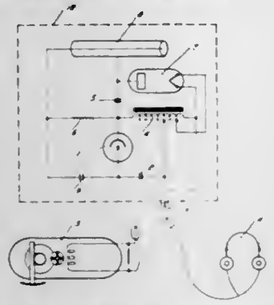
**Application February 16, 1952, Serial No. 271,881**
**16 Claims. (Cl. 250—71)**



2. An image intensification tube comprising means for generating a defocused electron beam directed along an optical axis; an image conversion means spaced from said beam generating means and traversing said optical axis including an X-ray responsive phosphor for receiving X-ray images and forming light images corresponding to the X-ray images, a thin transparent conductive element adjacent said X-ray responsive phosphor between said beam generating means and said X-ray responsive phosphor, and a photoconductor contiguous with the surface of said transparent conductive element remote from said X-ray responsive phosphor for receiving and storing electrons from said electron beam, the light images upon said X-ray responsive phosphor being effective to irradiate portions of said photoconductor and discharge electrons therefrom through said transparent conductive element to produce reverse charge images on said photoconductor; a mesh positioned to traverse said electron beam between said beam generating means and said image conversion means; an electron-responsive phosphor deposited on the side of said mesh remote from said beam generating means whereby electrons in said electron beam may pass from said beam generating means through the interstices of said mesh without exciting said electron-responsive phosphor, the charge images on said photoconductor being effective to reverse the direction of travel of electrons passing through said mesh and approaching the portions of the charge images

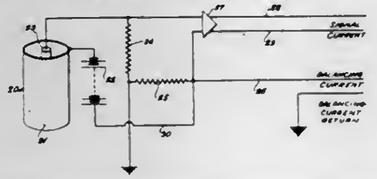
whereby the reversed electrons impinge upon said electron-responsive phosphor to form intensified light images reversely corresponding to the X-ray images formed on said X-ray responsive phosphor.

2,645,722
**IONIZING RADIATION MOVABLE DETECTING DEVICE**
**Robert Chaminade, Plessis-Robinson, France, assignor to Commissariat à l'Energie Atomique, Paris, France, a corporation of France**
**Application June 18, 1951, Serial No. 232,111**
**In France June 27, 1950**
**6 Claims. (Cl. 250—83.6)**



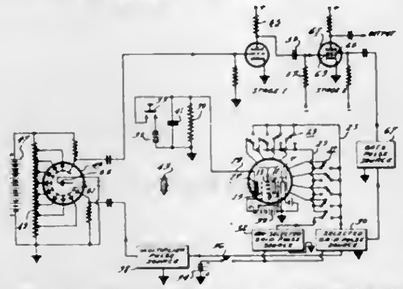
1. In a device for detecting ionizing radiations, a Geiger meter counter, a circuit extending from the terminals of said counter and including a capacitor, a gaseous discharge tube and an additional capacitor in series, a resistor connected between one of the terminals of said counter and a point intermediate said first mentioned capacitor and said gaseous discharge tube, a transformer, a further capacitor, a series circuit extending through said transformer, said further capacitor and said gaseous discharge tube, terminal connections leading to said transformer, a rectifier connected between said transformer and said first mentioned capacitor, a source of alternating current connectable with and disconnectable from said terminals leading to said transformer for charging said first mentioned capacitor, and impulse observing means connected with said terminals when said source of alternating current is disconnected therefrom.

2,645,723
**METHOD AND APPARATUS FOR INCREASING SPEED OF WELL LOGGING**
**Robert Earl Fearon, Tulsa, Okla., assignor to Well Surveys, Incorporated, Tulsa, Okla., a corporation of Delaware**
**Application February 21, 1946, Serial No. 649,348**
**2 Claims. (Cl. 250—83.6)**



1. An ionization chamber circuit that comprises an ionization chamber, a primary resistor, a secondary resistor and a source of potential all connected in series, variable current supplying means connected across said secondary resistor to introduce therein a potential opposite to that in said primary resistor, means for amplifying any difference in potential existing across said primary and secondary resistors, and means for varying the current supplied by the variable current supplying means in accordance with the amplified potential difference, to effect a balancing of the potentials across the primary and secondary resistors and thus maintain a substantially constant potential across said ionization chamber regardless of the amount of current flowing therethrough.

2,645,724
**MEANS FOR INDICATING CONDITION OF MEMORY ELEMENT**
**Jan A. Rajchman, Princeton, N. J., and Erik Stemme, Stockholm, Sweden, assignors to Radio Corporation of America, a corporation of Delaware**
**Application June 24, 1950, Serial No. 170,082**
**3 Claims. (Cl. 250—214)**



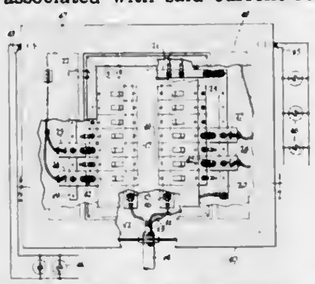
1. The combination with a device having a plurality of conditionable elements adapted to be bombarded with electrons which emit light under bombardment when in one condition but not when in another condition, said device also having selecting means to control the flow of electrons to bombard said conditionable elements, and said device also having leads connecting from said selecting means external to said device selection of certain ones of which permit selection of a conditional element to be bombarded, of means to apply a first pulse of a given duration to all but the ones of said leads which select a desired element to be bombarded to extinguish all elements but said desired one, means to apply a second pulse simultaneously with said first pulse to the remaining ones of said leads to extinguish said desired element, said second pulse having a shorter duration than said first pulse, light responsive means, and means coupled to said light responsive means responsive only to a pulse signal whereby said last-named means provides an output at the termination of said second pulse dependent upon the condition of said selected element.

2,645,725
**VARIABLE VOLTAGE SUPPLY SYSTEM**
**Howard L. Miller, Lansdale, Pa.**
**Application July 6, 1951, Serial No. 235,520**
**4 Claims. (Cl. 307—17)**

1. In a current-distribution device, a metal container box, a current-supply bus bar mounted within said box and insulated therefrom, a plurality of current-distribution units mounted within said box and electrically connected to said bus bar for supplying current to a number of individual load circuits including load devices, a common current-return bus bar for said load circuits

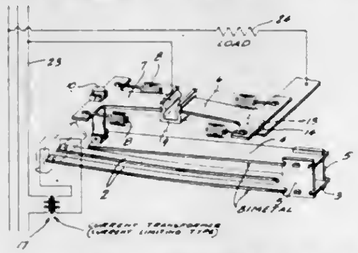


mounted directly on said box, and an individual adjustable voltage-boosting transformer unit, for each individual load circuit in which there is substantial voltage drop, physically and electrically associated with said current-return bus



bar and with the current-distribution unit supplying the individual load circuit, whereby the voltage at each load device may be substantially equalized with respect to the voltage at each other load device regardless of the distance of each load device from the current-distribution device.

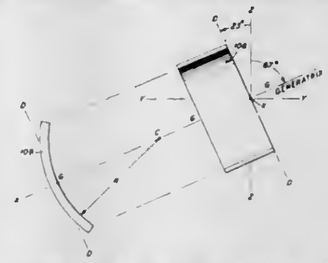
2,645,726
**LOAD LIMITER**
**Anthony Van Ryan, South Milwaukee, and William R. Harry, Hartland, Wis., assignors to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware**
**Application March 19, 1951, Serial No. 216,317**
**3 Claims. (Cl. 307—35)**



2. In a device of the class described, a first circuit constituting a preferential load circuit, a current transformer having its primary connected in said first circuit, a bimetal actuator strip connected to the secondary of said transformer, a second circuit constituting an auxiliary circuit, a switch connected in said second circuit and operatively connected to said actuator strip, and a compensator strip of bimetal responsive to ambient temperature and mechanically interposed between said actuator strip and said switch, said transformer being of the current limiting type whereby said actuator strip is protected from distortion from excessive overloads in said first circuit.

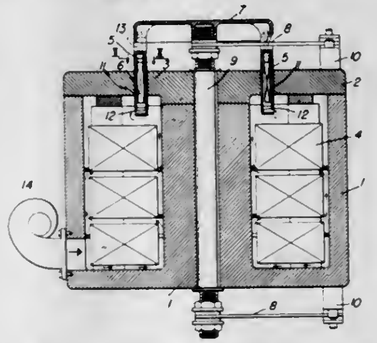
2,645,727
**FOCUSING ULTRASONIC RADIATOR**
**Gerald W. Willard, Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Original application March 26, 1948, Serial No. 17,272. Divided and this application January 27, 1951, Serial No. 208,248**
**5 Claims. (Cl. 310—8.7)**

1. A line focusing sound radiator comprising a piezoelectric quartz plate in the form of a circular cylindrical shell of non-uniform thickness, the thickness varying in the circumferential direction from a minimum thickness at the center to a maximum thickness at the edges, the generatrices of the cylindrical surfaces being parallel to the YZ-plane of the mother crystal and



perpendicular to a plane through an X-axis of the mother crystal which plane is inclined to the Z-axis by an angle of substantially 5 degrees in the direction of parallelism with a minor cap face, the normal to the radiating surface at the center of the element being parallel to the X-axis.

2,645,728
**ELECTRICAL VIBRATORY APPARATUS**
**Abner R. Willson and Donald W. Nelson, Seattle, Wash., assignors to The MB Manufacturing Company, Inc., New Haven, Conn., a corporation of Connecticut**
**Application June 5, 1951, Serial No. 230,064**
**7 Claims. (Cl. 310—27)**

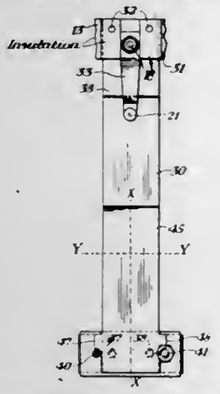


1. In an electrical vibratory apparatus, the combination of a coil carrying an alternating current and adapted to move with reciprocating motion in an electromagnetic field substantially constant in magnitude and direction, and a conductive, non-magnetizable shell in said electromagnetic field adjacent said coil, said coil being movable relative to said shell, whereby the impedance of said coil and the external magnetic effects of the alternating current flowing through said coil are reduced.

2,645,729
**PENDULUM CONSTRUCTION**
**Herman F. Franke, Millvale, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania**
**Application February 27, 1952, Serial No. 273,733**
**7 Claims. (Cl. 310—32)**

1. In a code transmitter of the pendulum electrical relay type, a pendulum comprising, a flat arm of a selected length and width, means attached to one end of said arm to suspend the arm

in a vertical position free to swing in a plane at right angles to the width of the arm, an armature of magnetic material attached to the lower end of said arm, said armature being susceptible to recurrent magnetic attraction for swinging said arm, a pair of damping springs, each said damping spring having a width substantially



equal to the width of said arm and of a length selected of the order of one half the length of said arm, each said damping spring having an end secured to the lower end of said arm, and said springs extending one up along one side of the arm and the other extending up along the other side of said arm.

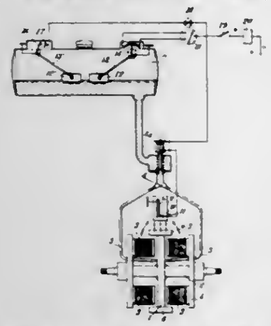
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**2,645,730**

**COOLING SYSTEM FOR ELECTRIC BRAKES**

**Pierre Etienne Bessière, Paris, France, assignor to Society Electro-Mecanique de l'Aveyron, Rodez (Aveyron), France, a society of France**

**Application April 27, 1950, Serial No. 158,411**
**In France January 31, 1950**
**3 Claims. (Cl. 310—93)**



1. For use with an electric brake including a conductor rotor disc operatively connected with the part to be braked and fixed means on either side of said rotor disc and out of contact therewith for producing a magnetic field the lines of force of which intersect said rotor, a cooling system which comprises, in combination, air cooling means operatively connected with said rotor disc for permanently circulating an air stream from the atmosphere to the central part of said rotor disc and from said central part centripetally along said disc between its faces and said fixed means, water cooling means for projecting water onto the central part of said rotor, and mean responsive to the temperature in said brake for automatically bringing said water cooling means into play when said temperature exceeds a predetermined value such that said water is wholly transformed into steam as it flows along said rotor disc.

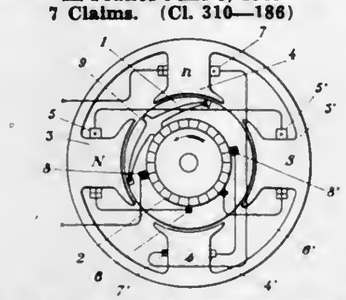
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**2,645,731**

**DIRECT CURRENT ELECTRIC GENERATOR HAVING A LARGE VOLTAGE DROP**

**Charles Voiff and Boris Bogatenkoff, Paris, France, assignors to L'Aire Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude, Paris, France**

**Application February 8, 1949, Serial No. 75,216**
**In France June 5, 1945**
**7 Claims. (Cl. 310—186)**



1. A direct current arc-welding generator in which the voltage drop is due to armature reaction, comprising in combination, a bipolar armature having a short pitch winding and provided with a commutator, a field structure providing a pair of main poles diametrically opposite each other and two interpoles diametrically opposite each other and equally spaced with reference to said main poles, each main pole comprising a field pole piece and an exciting winding, at least one of said interpoles comprising a field pole piece and an exciting winding, a pair of load brushes diametrically opposite each other bearing upon said commutator and including the load circuit of said generator and the exciting winding of at least one of said interpoles, a pair of auxiliary brushes bearing upon said commutator and positioned at points entirely on one side of the diameter joining said load brushes and in spaced relation to said load brushes said points being so chosen that the potential difference between said auxiliary brushes should remain approximately constant or increase slightly should the load upon said generator increase, one of said interpoles when its exciting winding is traversed by the load current producing a weaker magnetic flux than the other interpole, the windings of said main poles being serially connected and fed by the voltage given by said auxiliary brushes, the interpole which produces the strongest magnetic flux being connected serially with the load circuit of said generator, the air gap beneath the entire surface of each field pole piece being constant and being of the same order of magnitude beneath all of the field pole pieces.

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**2,645,732**

**COMMUTATOR**

**Paul A. Marsal, Rocky River, Ohio, assignor to Union Carbide and Carbon Corporation, a corporation of New York**

**Application March 23, 1953, Serial No. 343,931**
**3 Claims. (Cl. 310—234)**

1. A commutator comprising a bushing, an insulating core of a heat-hardened epoxy resin, and carbon commutator segments, one end of said segments being disposed in electrical contact with




a conductor capable of being wet by solder and adapted to receive electrical leads.

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**2,645,733**

**COMMUTATOR**

**Paul A. Marsal, Rocky River, Ohio, assignor to Union Carbide and Carbon Corporation, a corporation of New York**

**Application October 23, 1950, Serial No. 191,533**
**5 Claims. (Cl. 310—235)**




1. A method of manufacturing commutators which comprises coaxially aligning within a cylindrical tube of carbon a bushing, the outer diameter of said bushing being smaller than the inner diameter of the carbon tube, filling the interstice between the bushing and tube with a phenol-formaldehyde condensation resin and subjecting the same to heat and pressure until it becomes infusible, after said resin has been rendered infusible, radially slicing through the carbon tube in a longitudinal direction to form the commutator segments, positioning a substantially annular, solder-wettable conductor, prior to the step of slicing through said carbon tube, in electrical contact with one end of said tube and in fixed relationship with said tube, and, when the carbon tube is sliced, cutting said conductor into a number of segments each of which is in electrical contact with one and no more than one carbon commutator segment.

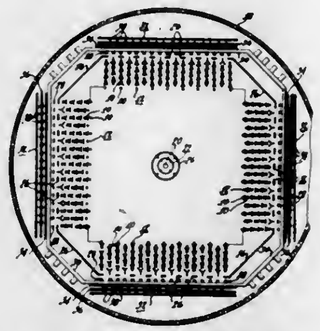
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**2,645,734**

**STORAGE TUBE WITH ELECTRON MULTIPLYING AND SELECTING ELECTRODES**

**Jan A. Rajchman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application September 29, 1949, Serial No. 118,527**
**9 Claims. (Cl. 313—68)**



3. An electron discharge tube comprising a source of primary electrons, a storage target, a plurality of electron multiplying means interposed between said source of primary electrons and said target to produce secondary electrons responsive to electrons from said source, each of said plurality of electron multiplying means being positioned in said tube to provide electrons to a different area of said target, and bias means connected to each of said electron multiplying means to control the flow of said secondary electrons to selected areas of said storage target.

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**2,645,735**

**PRECISION DEFLECTING YOKE**

**Frank Wendzel, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application April 19, 1952, Serial No. 284,119**
**13 Claims. (Cl. 313—76)**



1. A cathode ray deflecting yoke comprising, two windings energizable and disposed relative to one another in a manner to deflect a cathode ray in two different directions, said windings having portions which are mutually coextensive and said mutual coextensive portions being formed so that one winding is interleaved with the other to create a plurality of interfaces, whereby substantially the same number of equal and opposite circumferential components of flux is produced.

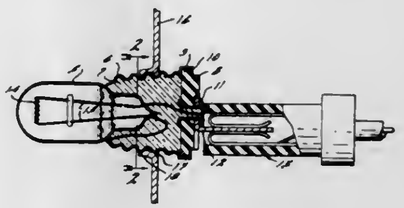
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**2,645,736**

**ELECTRIC LIGHT BULB UNIT**

**John B. Dickson, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**

**Application May 17, 1952, Serial No. 288,400**
**13 Claims. (Cl. 313—318)**



1. An electric light bulb unit adapted to be mounted on a support having an opening bounded by a threaded frustro-conical wall, the unit including a sleeve-like base, a filament containing bulb extending into one end of the base and secured thereto, the bulb being dimensioned to accommodate its insertion through the opening, and said base having a threaded frustro-conical external surface adapted to be inserted into said support opening in threaded engagement with the threaded wall thereof.

2,645,737

## TRAVELING WAVE TUBE

Lester M. Field, Palo Alto, Calif., assignor to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif., a legal entity of California

Application June 30, 1949, Serial No. 102,317
5 Claims. (Cl. 315—3)



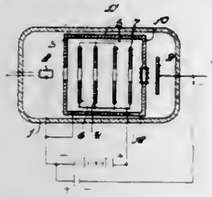
1. An electron discharge device comprising a conductive rod, a plurality of parallel discs on said rod spaced at intervals substantially less than their diameter, means for producing a tubular electron stream, the inside diameter of said stream being approximately equal to the diameter of said discs, and directing said stream along said rod and coaxially thereof, means for applying wave energy to one end of said disc and rod assembly to induce propagation of said energy along said assembly in the direction of flow of electrons in said stream, and means for extracting wave energy from the other end of said disc and rod assembly.

2,645,738

## CIRCUIT ARRANGEMENT COMPRISING A REFLEX DISCHARGE TUBE

Frederik Coeterier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 25, 1947, Serial No. 763,610
In the Netherlands August 14, 1946
6 Claims. (Cl. 315—4)



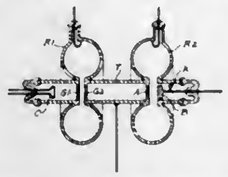
1. A high-frequency circuit comprising an electron discharge tube of the velocity modulation type including in successive axial arrangement an electron-emissive cathode, a focussing electrode for forming an electron beam, four spaced electrodes defining a beam control system for effecting velocity variations in said beam, a double-grid electrode and a repelling electrode constituting with said double-grid electrode a brake system for converting the velocity variations into density variations, means including a source of potential connected to the said four spaced electrodes to impress on the said electrodes of said control system a potential which is positive relative to said cathode, means connected to said repelling electrode to impress on said repelling electrode a potential which is negative relative to said cathode, and connecting means to apply to said focussing and double-grid electrodes a cathode potential whereby said grids are at the same potential to define a field free drift space therebetween, said focussing electrode and the adjacent electrode of said control system defining a first brake field therebetween, said double-grid electrode and the adjacent electrode of said control system defining a second brake field therebetween, the electrodes of said control system forming a complex oscillatory circuit, the axial dimension of said first brake field and the axial dimensions of said second brake field having values with respect to the axial dimension of said control system at which the density-modulated electron beam is capable of passing through the control system at least twice to induce in the oscillatory circuit currents sustaining high frequency oscillations.

2,645,739

## ELECTRON DISCHARGE APPARATUS

John Heaver Fremlin and Roger Norman Hall, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application June 2, 1942, Serial No. 445,502
In Great Britain May 24, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires May 24, 1960
6 Claims. (Cl. 315—6)



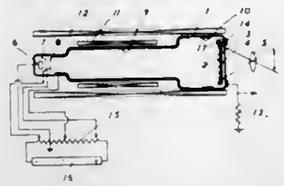
1. An electron discharge device comprising means for generating a beam of electrons, means for directing said beam along a predetermined path, means for velocity modulating said beam and causing the bunching of the electrons comprising a cavity resonator and a drift tube, a secondary emissive electrode and a cavity resonator in succession placed in the path of said beam, said secondary emissive electrode placed effectively between said drift tube and said cavity resonator last named and responsive to said bunched electrons for electrically exciting said cavity resonator last named.

2,645,740

## CIRCUIT ARRANGEMENT EMBODYING ELECTRON DISCHARGE DEVICES EMPLOYING TARGET ELECTRODES

Hans Gerhard Lubszynski, Northwood, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company

Application June 21, 1949, Serial No. 100,444
In Great Britain June 22, 1948
5 Claims. (Cl. 315—10)



1. A circuit arrangement embodying an electron discharge device having a target electrode and means for scanning said target electrode with a low velocity scanning beam to stabilize elemental areas of said target electrode at an equilibrium potential corresponding substantially to that of the cathode from which said scanning beam is derived, a conductive border disposed in the path of said scanning beam and surrounding the surface of said target electrode scanned by said beam, and means for maintaining said conductive border at a potential to prevent electrons from said beam from impinging on said conducting border, whereby said border defines the area from which signals can be obtained from said target electrode.

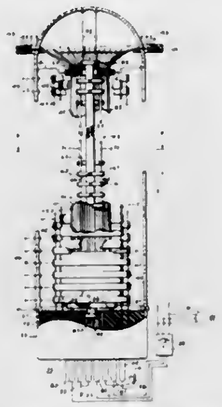


2,645,741

## ELECTRONIC SCANNING APPARATUS

Robert Alanson Westervelt, Ames, Iowa, and Robert L. Cummerow, Schenectady, N. Y.

Application March 29, 1948, Serial No. 17,604
15 Claims. (Cl. 315—21)
(Granted under Title 35, U. S. Code (1952), sec. 266)



4. Electron-discharge tube apparatus, comprising means providing a cloud of electrons, means for forming said electron cloud into skewed electronic lamina having radially extending beam portions and for rotating said lamina and said beam portions about an axis in said tube, grid means axially disposed in the path of said rotating lamina and adapted, upon energization thereof by electric signals from a plurality of circuits to be switched, to modulate the rotating beam portions, a plurality of anodes spaced from said grids and adapted selectively to receive said beam portions after modulation thereof by the energized grids, and means interposed between said grid means and said anodes for minimizing cross-talk between adjacent anodes.

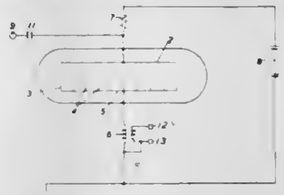
2,645,742

## ELECTRIC DISCHARGE DEVICE

Alec Harley Reeves, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application March 11, 1948, Serial No. 14,184
In Great Britain March 20, 1947
2 Claims. (Cl. 315—334)

1. A circuit for generating a train of pulses in response to a single trigger pulse, comprising a cold cathode gas-filled electric discharge tube having a plurality of electrodes defining a sequence of substantially equally dimensioned discharge gaps each having an ionisation coupling with an adjacent gap, a maintaining voltage source coupled to said electrodes for establishing substantially the same potential gradient across each of said gaps of insufficient magnitude to fire any gap but sufficient to maintain the discharge of a gap once fired, a trigger pulse source coupled to the electrodes defining one of said gaps to initiate firing of said one gap only an automatic sequential firing of the gaps following said one gap in said sequence, and pulse train forming



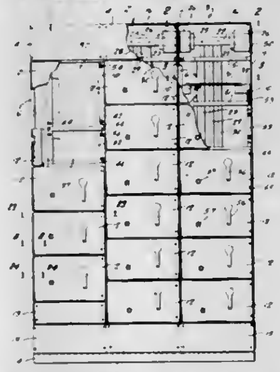
means connected in series with the discharge paths of said gaps to develop a train of output pulses corresponding to the number of discharge gaps firing.

2,645,743

## ELECTRICAL SWITCH MOUNTING ENCLOSURE

Woodrow A. De Smidt, Whitefish Bay, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin

Application April 14, 1950, Serial No. 155,991
2 Claims. (Cl. 317—117)

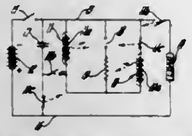


1. In a mounting enclosure for electrical switching and control instrumentalities, the combination comprising a cabinet having an open front and side and rear wrapper sheets; a vertically extending skeletal re-enforcing frame enclosed by said wrapper sheets including at least one vertical skeletal member disposed parallel to and at a point intermediate between said side wrapper sheets in the front of said cabinet, nearer one of said wrapper sheets to provide a narrower vertical wiring shaft portion and a wider sub-panel mounting portion, said wiring shaft portion being in substantial part open and accessible from the front of said cabinet; a plurality of independent sub-panels mounted in successive vertical sequence in the sub-panel mounting portion of said cabinet, said sub-panels each comprising a main, back, instrumentality-mounting portion disposed rearwardly of the front of said cabinet, with forwardly extending side portions terminating in forward mounting margins secured on one side to said intermediate skeletal member and on the opposite side to the forward margin of the adjacent side wrapper sheet, said forwardly extending sub-panel side portion adjacent said intermediate skeletal member being cut away to provide a wire communication channel between said wiring shaft and the electrical instrumentalities to be mounted on said sub-panel; and a

separate access door for each of said sub-panels, disposed in facing and closing relation thereto and to the adjacent wiring shaft portion of said cabinet, said doors being hingedly attached near the forward margin of the side wrapper sheet adjacent the wiring shaft portions of said cabinet; said cabinet being adapted for and intended to be used in connected side-by-side arrangement in multiple with like cabinets.

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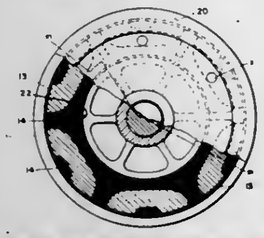
**2,645,744**
**DUAL LIMIT CONTROL CIRCUIT**
**Robert J. Cassidy, Mansfield, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application January 12, 1951, Serial No. 205,813**
**14 Claims. (Cl. 317—137)**



1. Control apparatus of the character described, including: means providing a source of operating voltage adapted to be connected to a load; first control means energizable at a critical predetermined voltage amplitude; second control means de-energizable below a different critical predetermined voltage amplitude; means providing an energizing voltage; and a circuit for providing a control voltage which may be varied between said critical amplitudes, said first and second control means being connected generally in parallel with said circuit, said first control means including first switch means operable as a function of energization thereof to connect said energizing voltage across said second control means to insure energization thereof, and said second control means including second switch means operable as a function of energization thereof to connect said source of operating voltage to the load and to disconnect said first control means from said control voltage circuit.

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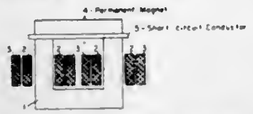
**2,645,745**
**PERMANENT MAGNET ASSEMBLY**
**Neal S. Moreton, Staten Island, N. Y.**
**Application April 17, 1952, Serial No. 282,844**
**2 Claims. (Cl. 317—161)**



1. A magnet assembly for magnetic separators comprising a pair of spaced soft iron pole shoes, each shoe having an exposed working face, a U-shaped permanent magnet having a pole adjacent the face of each pole shoe opposite its working face, there being a gap between each pole and pole snoe, a magnetic cement in the gaps forming an adherent mechanical connection between the poles and pole shoes, said cement comprising a mixture of finely divided material having the characteristics of permanent magnets and a solventless varnish of the unsaturated polyester type set up by addition polymerization without the evolution of volatile matter, said cement being set up in situ in each gap and a non-magnetic frame for the magnetic assembly comprising a solventless varnish of the unsaturated polyester type set up by addition polymerization without the evolution of volatile matter cast and set up in situ around the poles of the magnet and the adjacent faces of the pole shoes and in the space between the spaced pole shoes.

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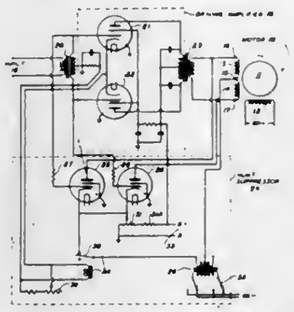
**2,645,746**
**HIGH-FREQUENCY TRANSFORMER FOR THE TRANSMISSION OF ELECTRIC IMPULSES**
**Hugo Georg Bruijning, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**
**Application June 21, 1949, Serial No. 100,436**
**In the Netherlands July 14, 1948**
**2 Claims. (Cl. 317—210)**




1. A pulse transformer comprising a closed magnetic circuit comprising a ferro-magnetic ferrite core portion and a permanent magnet portion producing in said core portion a constant magnetic field having an intensity at which the core portion tends to become saturated, primary and secondary windings wound on said core portion, and a short-circuit electrical conductor disposed between the entire core portion of the magnetic circuit and the entire permanent magnet portion, whereby when pulses of current are flowing through said windings in a direction producing a field in said core portion in opposition to the field produced therein by the permanent magnet substantially distortionless transformation of the pulses is obtained.

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**2,645,747**
**HUNT SUPPRESSOR**
**Burton D. Lee, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application June 25, 1948, Serial No. 35,139**
**12 Claims. (Cl. 318—18)**



1. In a servo system having a reversible motor movable back and forth through a balance position, the combination which comprises an amplifier having its input connected to a source of signal representative of sign and amount of divergence of the system from the balance position and its output connected to the motor and tending to drive the motor to the balance position in response to the signal, and electronic means which opposes the driving action of the amplifier through two limited ranges respectively adjacent the extremities of another limited range which includes the balance position and extends on both sides thereof, and means for preventing the electronic means from opposing the driving action of the amplifier in said other range.



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**2,645,748**
**POTENTIOMETRIC MEASURING SYSTEM AND APPARATUS**
**Albert Hansen, Jr., Lynn, Mass., assignor to General Electric Company, a corporation of New York**
**Application June 21, 1951, Serial No. 232,854**
**11 Claims. (Cl. 318—28)**

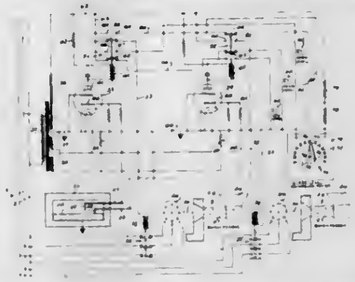


3. A system for the measurement of small variable direct current comprising a circuit containing a feed-back resistor in which the measuring current flows, apparatus supplied by the measuring current and having no moving parts which produces a direct current proportional to the measuring current but of greater magnitude, connections for causing a portion of such greater magnitude current to flow through said feedback resistor in nonpredominating opposition to the measurement current therethrough, an alternating current control system, a saturable core variable reactor for supplying a control voltage to said system, a winding on said reactor in which said current of greater magnitude flows for varying the saturable condition of said reactor, a well stabilized permanent magnet movably associated with said reactor for also varying the saturable condition thereof, said two reactor saturation varying means acting in opposition, and reversible motor means controlled through said alternating current control system in accordance with the control voltage supplied thereto from said reactor for adjusting the position of said movable permanent magnet in a direction to reduce such control voltage.

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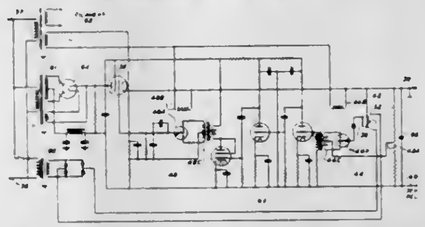
**2,645,749**
**LIQUID LEVEL MOTOR CONTROL SYSTEM**
**Dominick Labino, Maumee, Ohio, and Verney G. Politsch, Alton, Ill., assignors to Owens-Illinois Glass Company, a corporation of Ohio**
**Application September 4, 1948, Serial No. 47,888**
**4 Claims. (Cl. 318—102)**

1. An electric motor control system comprising a pair of contact elements mounted over a body of liquid, one said element being in contact with the liquid when the latter is at a predetermined normal level and out of contact when the level falls below normal, the other contact element being out of contact with the liquid at said normal level and in contact with the liquid when the latter rises above said normal, electron tubes individual to said contact elements, control circuits for the tubes, each circuit including one said element, the liquid and a resistance interposed between each said element and the liquid, each said resistance being short-circuited when the respective element is in contact with the liquid, thereby firing the respective tube, relays individual to the tubes, each comprising an operating coil in the plate circuit of the tube, electrical motors, motor switches individual to the motors, control circuits for the respective motors including switches actuated by said relays, each said circuit being energized when the respective tube is fired.



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**2,645,750**
**SLIDEWIRE POWER SUPPLY**
**Paul S. Goodwin, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California**
**Application February 12, 1951, Serial No. 210,529**
**10 Claims. (Cl. 323—22)**



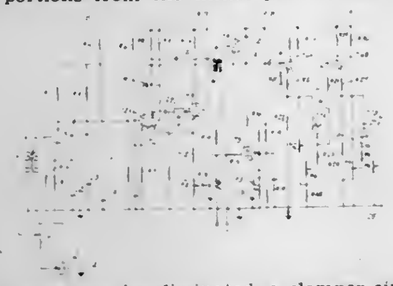
1. In a voltage regulator circuit including a voltage regulating tube adapted to be connected serially to an unregulated source of D. C. voltage and a voltage divider connected across the low voltage side of the regulator tube and the negative side of the unregulated source, the combination comprising an A. C. amplifier, a contact type modulator connected between said voltage divider and the amplifier input, a reference voltage source connected to said modulator to buck the voltage tapped from said voltage divider, and a contact type demodulator connected between the output of said amplifier and the grid of said voltage regulator tube.

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**2,645,751**
**VISUAL ANALYZING DEVICE FOR THE IGNITION SYSTEMS OF INTERNAL-COMBUSTION ENGINES**
**Henry L. Byerlay, Highland Park, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.**
**Application July 7, 1949, Serial No. 103,478**
**13 Claims. (Cl. 324—15)**

9. In a device for visually analyzing recurrent series of consecutively appearing electrical impulses, the combination with a cathode ray tube

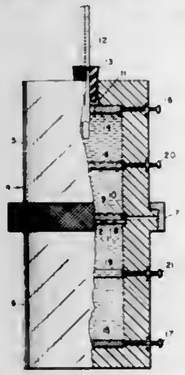
having horizontal and vertical ray deflecting plates comprising, means for inductively deriving a triggering pulse from one of said electrical impulses, a single shot multivibrator actuating a saw tooth wave generator and connected to be actuated by said triggering pulse, said generator including a condenser and a constant current pentode tube for charging said condenser, a delayed sweep circuit connected in series with the output of said saw tooth generator and including a diode vacuum tube and manually adjustable biasing means for said diode whereby the selectiye portions from the initial part of said saw



tooth wave may be eliminated, a clamper circuit connected in series with said saw tooth wave generator and including a diode vacuum tube and a second manually adjustable biasing control means for said second diode whereby selected portions from the latter part of said saw tooth wave may be eliminated, mechanical means for selectively coupling said manually adjustable biasing means for simultaneous movement, said clamper circuit and said delayed sweep circuit being connected in series and to said cathode ray tube to supply the horizontal deflection plates of said cathode ray tube, and means for impressing all of said electrical impulses on the vertical deflection plates of said cathode ray tube.

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**2,645,752**
**METHOD AND APPARATUS FOR DETERMINING CHARACTERISTICS OF EARTH FORMATIONS**
**Charles R. Glanville, Henry F. Dunlap, and Ellis W. Shuler, Jr., Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application March 9, 1951, Serial No. 214,800**
**5 Claims. (Cl. 324—30)**



2. A wafer for use in measuring the characteristics of an earth formation which comprises cuttings from said earth formation and a mass of fluid-impervious, electrically-insulating material laterally surrounding said cuttings, the upper and lower faces of each of said cuttings being flush with the upper and lower surfaces respectively of said material and the edges of said cuttings being substantially perpendicular to said faces.

3. A method of determining the resistance factor of a formation comprising the steps of obtaining cuttings from the formation, forming a cylinder of fluid-impervious, electrically insulating material around said cuttings in such manner as to form a substantially fluid-tight bond between said cuttings and said material, removing material from the ends of said cylinder to expose a face of each of said cuttings at each end of said cylinder, saturating said cuttings with brine solution, and measuring the resistance to flow of electric current through said cylinder.

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**2,645,753**
**TEST DEVICE**
**Kurt Dutschke, Zirndorf, near Nurnberg, Germany**
**Application November 14, 1949, Serial No. 127,031**
**In Germany October 1, 1948**
**7 Claims. (Cl. 324—51)**

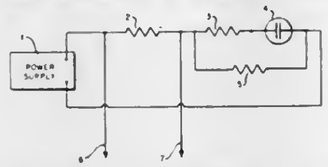


1. In a testing apparatus for armatures and stators, a tubular casing consisting of at least two casing parts, of which each has openings therein, a detector magnet disposed in one casing part with its poles projecting laterally through the openings therein, an exciter magnet in the other casing part directly adjacent the detector magnet and having its magnet poles projecting through the openings in said casing part on the same side as the detector magnet poles, interrupter means and condensers in the said other casing part, one supply lead from the said exciter magnet to the interrupter means and the condensers consisting of a coil or contacts, one lead from detector magnet being connected to an earphone, at least one of the said casing parts being made of a material of high magnetic conductivity whereby all elements are disposed close to each other in series.

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**2,645,754**
**LOW VOLTAGE NEON SHORTS TESTER**
**Morris Pitinsky, Eatontown, N. J.**
**Application August 1, 1952, Serial No. 302,287**
**3 Claims. (Cl. 324—51)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. In an apparatus for testing an electron discharge device or the like which comprises a plurality of elements: a source of voltage with two terminals, a series resistor, and a normally extinguished indicator lamp connected in series between said terminals; a resistor connected in

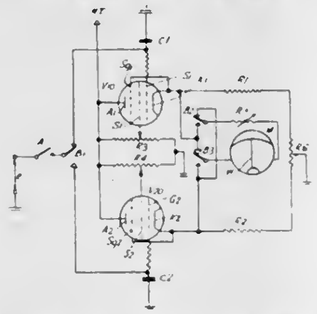


shunt across said indicator lamp; and means for connecting two selected elements of said device in shunt across said series resistor whereby said lamp is excited by a short circuit between said two elements.

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**2,645,755**
**ARRANGEMENT FOR INDICATING THE RATE OF CHANGE OF A PHYSICAL EFFECT**
**William Littery Garfield, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application May 14, 1947, Serial No. 748,059**
**In Great Britain May 16, 1946**
**12 Claims. (Cl. 324—102)**

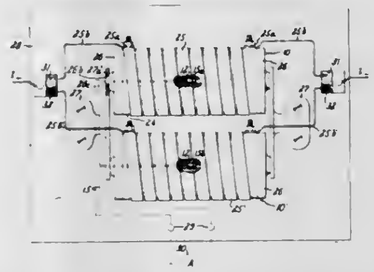


1. In a system for indicating the rate of change of a direct current potential having means for successively sensing the instantaneous values of the potential at predetermined time intervals, means for separately storing the instantaneous values of potential for periods in excess of said time intervals and means for indicating the difference of said values, an arrangement for indicating the difference of said values at the beginning of each time interval comprising a first switch means for alternately applying the successively sensed instantaneous values to respective of said storing means, second switch means for alternately coupling said means for indicating to both said storing means in opposite phase, and means for simultaneously operating said first and second switch means during each time interval.

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**2,645,756**
**THERMAL AMMETER**
**William Nelson Goodwin, Jr., Newark, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey**
**Application February 17, 1950, Serial No. 144,674**
**3 Claims. (Cl. 324—104)**

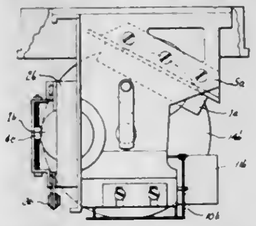
1. A heat storage apparatus for current meters of the type including an electrical measuring device, said heat storage apparatus comprising: a pair of structurally similar heat storage units each of which includes an inner heat storage cylindrical core member having a polished outer surface, an outer heat storage sleeve member disposed concentrically about said core member, said outer heat storage sleeve member being metallic and having a polished outer surface and end members having radial projections supporting said core and sleeve members in radially spaced relation, said radial projections serving to limit the thermal contact area between said core



and sleeve members, said core and sleeve members having a relatively high heat capacity and said end members having a relative low heat conductivity; a thermocouple adapted to be connected to said measuring device, the hot junction of said thermocouple being disposed centrally within the core member of one of said heat storage units and the cold junction disposed centrally within the core member of the other of said heat storage units; and a heater coil surrounding the outer sleeve member of the heat storage unit containing the hot junction of said thermocouple and adapted to be traversed by the current to be measured.

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**2,645,757**
**ELECTRIC ENERGY METER**
**Carlos Romanillos López, Leon, Spain**
**Application April 8, 1949, Serial No. 86,130**
**In Spain July 13, 1948**
**1 Claim. (Cl. 324—107)**



An inductive device for a two-phase watt hour meter having a disc rotatably mounted intermediate a voltage coil and a current coil; the current coil being connected with one phase and a neutral; the inductive device comprising an electromagnet, a rectangular core disposed adjacent one side of the disc in spaced relationship with the current and voltage coils, a coil disposed on the core adjacent the disc, and means for connecting the last-mentioned coil between the neutral and the phase to which the current coil is connected; the device further comprising a second coil disposed on the core adjacent the first coil and the disc, the second coil having the same number of turns as the first coil, means for connecting the second coil in series with the sec-

ond phase, and a third coil disposed on the core in spaced relationship with the first and second coils; the device further comprising a second electromagnet disposed on the side of the disc opposite to the first electromagnet, means for connecting together the third mentioned coil and the coil of the second electromagnet, and means for maintaining substantially a 90° lag between any unbalanced current in one of the first two mentioned coils and the current in the coil of the second mentioned electromagnet.

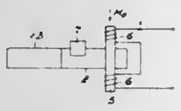
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**2,645,758**

## ELECTROMAGNETIC DEVICE FOR AMPLITUDE-MODULATION OF HIGH-FREQUENCY OSCILLATIONS

**Willem Jacobus van de Lindt, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**

**Application April 14, 1951, Serial No. 221,024**
**In the Netherlands April 20, 1950**
**6 Claims. (Cl. 332—54)**



1. A device for amplitude modulating a cyclically recurring wave, comprising a body of substantially non-conductive ferromagnetic material, means to generate a wave of given frequency, higher than the natural gyromagnetic resonance frequency of said ferromagnetic material, means to couple said wave generating means to said body, said body having a specific resistance exceeding 10 ohms/cm. at said given frequency, and having a given preferential direction of Bloch partitions produced by internal anisotropy of shape said preferential direction forming an angle with the magnetic field vector of the wave, and means to premagnetize said body below a field strength of the order of magnitude of the saturation field strength of the ferromagnetic material.

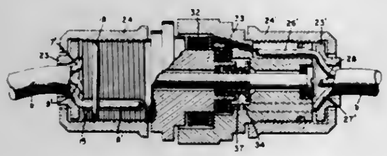
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**2,645,759**

## SWIVEL JOINT FOR MULTICONDUCTOR ELECTRIC CABLES

**Alfredo Solari, Buenos Aires, Argentina**

**Application July 22, 1950, Serial No. 175,343**
**In Argentina February 7, 1950**
**3 Claims. (Cl. 339—8)**



1. A swivel joint for multiconductor electric cables comprising a cylindrical male contact-carrying member of insulating material provided with a first and a second stepped and concentrically arranged contact seats and a third inner contact seat corresponding to the bottom of a hollow coaxial stud, a cylindrical female contact-carrying member of insulating material including a cylindrical recess the wall of which is provided with three stepped and concentrically arranged contact seats cooperating in pairs with the contact seats of said male contact-carrying member, a contact ring of conducting material arranged on each of said contact seats, each of said contact-carrying members being provided with a cylindrical threaded rear extension provided with three longitudinal recesses of equal depth distributed symmetrically along the periphery of said extension and each adapted to receive one strand of said multiconductor cable, a bore communicating the inner end of each of said longitudinal recesses with one of said contact seats and adapted to receive the conductor of the strand arranged in the respective longitudinal recess, a bolt swivelably coupling said male and said female contact-carrying members with the contact seats of said male contact-carrying member being arranged in said cylindrical recess of said female contact-carrying member to constitute three enclosed contact chambers, elastic washers of conducting material arranged in the outer two contact chambers to constitute the elastic intermediate contact means between the respective contact rings, and a helical spring arranged on said bolt and in the third inner contact chamber to constitute the elastic intermediate contact means between the contact rings in said contact chamber, a circular groove provided on each of said threaded rear extensions, a cord arranged in said circular groove to fasten the strands of the cable located in said longitudinal recesses, a retention collar on each cable connected to each of said contact-carrying members, and a threaded bushing on each of said threaded rear extensions to press said retention collar against the contact-carrying member and to join said cable to the respective contact-carrying member.

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**2,645,760**

## BLADE ENGAGEABLE ELECTRIC CONNECTOR

**Samuel S. Fortino, New York, N. Y., assignor to The Gem Electric Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York**

**Application May 31, 1951, Serial No. 229,225**
**3 Claims. (Cl. 339—276)**



1. A terminal-contact for use in a blade engageable connector, said terminal-contact comprising a single piece of ductile resilient sheet metal stock including an entirely flat, flexible, contact leg and a shank, said shank having on one edge thereof a pair of fingers whose adjacent fingers are in rubbing engagement and on the opposite edge thereof another pair of fingers whose adjacent fingers are in rubbing engagement, said pairs of fingers being transversely registered and being adapted to be crimped on an electrical element for engagement therewith, said fingers serving to stiffen the shank whereby to firm the same so as to act as a base relative to which the contact leg can flex.

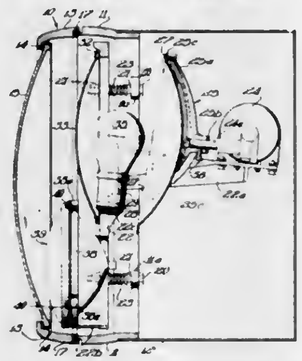


**2,645,761**

## ILLUMINATION APPARATUS FOR WARNING AND SIGNALING PURPOSES

**Thomas E. McDowell and Arthur C. Heehler, Chicago, Ill., assignors to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey**

**Application April 14, 1951, Serial No. 221,046**
**13 Claims. (Cl. 340—50)**



1. In a warning light structure, a pair of spaced-apart light source means, a common support member carrying both of said light source means and aligning same to project co-directional beams of light along a substantially parallel path, each of said light source means including a lens through which the respective beams of light are projected, one of said lens being colored, and circuit means to selectively energize each of said light source means.

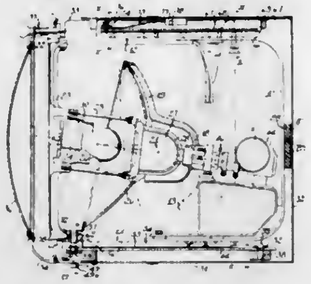
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**2,645,762**

## SHOCKPROOF MOUNTING FOR WARNING LIGHTS

**Arthur C. Heehler, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey**

**Application May 14, 1951, Serial No. 226,143**
**13 Claims. (Cl. 340—50)**



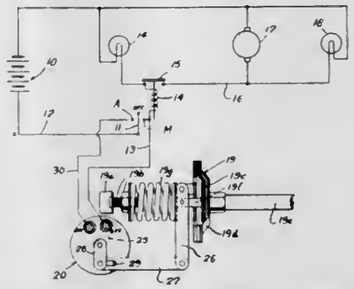
9. An electric warning light apparatus, comprising, a casing, electric light source means including a frame member in said casing, a resilient biasing means between said casing and one side of said frame member, an adjustable support member between said casing and the other side of said frame member, and an adjustment means between said casing and said adjustable support member and having an accessible actuating portion extending exteriorly of said casing to adjust the alignment of said frame member in said casing.

**2,645,763**

## RAILWAY WARNING LIGHT CONTROL SYSTEM

**Arthur C. Heehler, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey**

**Application February 26, 1949, Serial No. 78,648**
**5 Claims. (Cl. 340—60)**



1. In a warning light control system for a movable vehicle having a fluid operated brake system, a warning light, circuit means to control the energization of said warning light, a switch in control of said circuit means, an actuating device in said brake system having a movable member responsive to variations from a predetermined normal reference pressure in said brake system, said movable member connected to said switch to hold said switch closed whenever said pressure varies from a predetermined normal reference pressure, and a time delay device connected to said switch and arranged to be actuated by said member to initiate a time cycle, said time delay device arranged to open said switch only after completion of a predetermined time cycle, said movable member arranged to render said time delay device inoperative upon failure of said pressure to return to normal reference value.

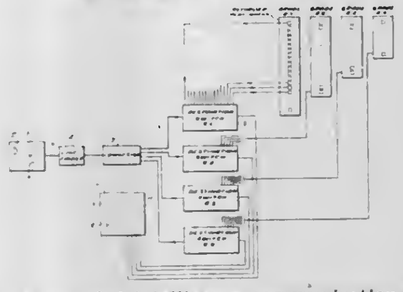
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**2,645,764**

## INTELLIGENCE EXCHANGE SYSTEM

**Eric Malcolm Swift McWhirter, Mount Vernon, and Frederick G. Popp, New York, N. Y., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**

**Application June 14, 1950, Serial No. 177,534**
**44 Claims. (Cl. 340—153)**

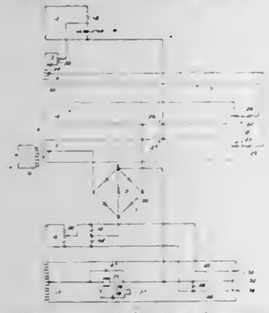


1. A recorded intelligence communication system, comprising a plurality of terminal elements each having recorded information allotted to a series of cyclically recurring future time intervals, certain of said elements having records for one length of time interval and other elements having records for different lengths of time intervals, a calling station, means for automatically

connecting said calling station to any one of said desired elements to obtain information contained thereon for a desired time interval, the last-mentioned means including a time interval translating circuit which is selectively set in response to a digital code representing the particular time interval or portion thereof for which the recorded information is desired, and circuit connections between said translating means and said automatic connecting means for variably setting said connecting means in accordance with the time interval between the date on which the information call is being placed by said calling station and the actual future date for which said information is desired.

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**2,645,765**
**ABNORMAL VOLTAGE INDICATING DEVICE**
**William H. Bixby, Detroit, Mich., assignor to Donald R. Middleton and Stanley M. Hanley, doing business as Power Equipment Company, Detroit, Mich., a copartnership**
**Application April 25, 1950, Serial No. 158,042**
**16 Claims. (Cl. 340—248)**

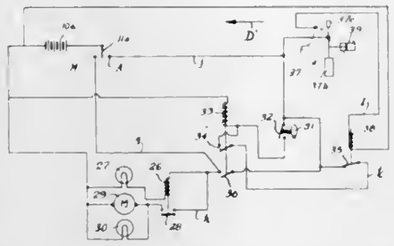


9. In combination, a first and a second current responsive means, means comprising a first and a second space current device for supplying current from an alternating-current supply source to said first and second current responsive means respectively, each of said space current devices having an anode, a cathode and a control electrode, means for impressing upon the control electrode and cathode of said first device a voltage derived from said source for causing the current supplied to said first current responsive means to be reduced to a predetermined value in response to an increase of said supply voltage to a voltage above a certain normal range, and means for impressing upon the control electrode and cathode of said second device a voltage derived from said source for causing the current supplied to said second current responsive means to be reduced to a predetermined value in response to a decrease of said supply voltage to a voltage below said normal range.

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**2,645,766**
**RAILWAY WARNING LIGHT CONTROL SYSTEM**
**Thomas E. McDowell, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey**
**Application December 31, 1948, Serial No. 68,599**
**4 Claims. (Cl. 340—262)**

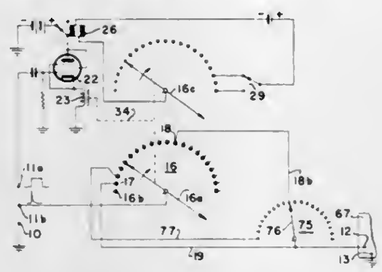
1. Apparatus for controlling the operation of vehicular warning devices comprising, in combination, an inertia switch responsive to acceleration and deceleration of a vehicle, a first circuit associated therewith, relay means in said first circuit, a holding circuit, a first switch means in said holding circuit actuatable by said relay means to complete said holding circuit for said relay means, a second circuit, a second switch means in said second circuit actuatable by said relay means to complete said second circuit, a series relay in said second circuit, said series relay operable to energize a third switch means, a third



circuit controlled by said third switch means, a device to be controlled in said third circuit, a fourth circuit associated with said inertia switch, a relay in said fourth circuit, a fourth switch means in said holding circuit actuatable by said relay whereby said device may be energized upon deceleration of said vehicle and held energized until said acceleration of said vehicle occurs.

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**2,645,767**
**ELECTROMECHANICAL INTERVAL TIMER**
**Phillip M. Green, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**
**Application January 26, 1951, Serial No. 207,995**
**5 Claims. (Cl. 340—359)**

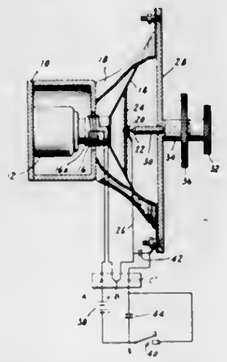


1. In a measuring system for well logging of the type in which a voltage having a condition controlled frequency is applied to the signal circuit of a counter which has a control circuit, the combination therewith which comprises a constant frequency source of rectangular current pulses, means for deriving a voltage pip from the leading edge of each of said pulses, a stepping switch connected at its input circuit to said constant frequency source, mechanical driving means for connecting the input circuit of said stepping switch sequentially to an initial output position and to each of a plurality of succeeding output positions, electromechanical means in circuit with said constant frequency source for resetting said driving means coincident with the leading edge of said pulses, a circuit interconnecting said initial output position and a selected one of said succeeding output positions and said control circuit for transmission thereto of two pips spaced a time interval dependent upon the number of output positions between said initial output position and said selected succeeding output position and the time interval between succeeding current pulses.



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**2,645,768**
**SOUND GENERATING DEVICE**
**Louis Santino, Brooklyn, N. Y.**
**Application August 24, 1949, Serial No. 112,029**
**2 Claims. (Cl. 340—388)**



1. A sound producer including a combination, a frame, a permanent magnet secured to said frame, a cone secured at the peripheral edge of the base thereof to said frame, a voice coil secured to cone at the apex thereof and moveable toward said permanent magnet upon passage of a current of predetermined polarity through said voice coil, a first contactor secured to said cone, a second contactor, a threaded member secured to said contactor, a cross member secured to said frame in a plane perpendicular the apex of said cone, and adapted to receive said threaded member, means for locking said second contactor respective said cross member, said contactors being in electrical circuit with said voice coil and adapted to be opened upon movement of said voice coil toward said permanent magnet.

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**2,645,769**
**CONTINUOUS WAVE RADAR SYSTEM**
**Walter van B. Roberts, Princeton, N. J.**
**Application June 5, 1947, Serial No. 752,582**
**2 Claims. (Cl. 343—8)**

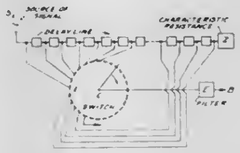
1. A continuous wave radar speed indicating device comprising, an uninterrupted source of plane polarized waves, means including an antenna for radiating and receiving echo waves returned thereto by reflection from a moving object, wave guide means connecting said source of waves to said radiating means, heterodyne detecting means responsive to plane polarized waves coupled to said wave guide means and positioned substantially normal to the plane of polarization of the waves supplied by the source and arranged to intercept a small portion of the waves traveling from said source toward said radiating means, and further means so positioned as to be traversed by the outgoing waves from said source subsequent to their passage past said detecting means, said further means operating to convert the polarization of the outgoing waves from plane to substantially rotary and to convert the polarization of the returned waves that are reflected from the moving object from rotary to plane with the plane of polarization parallel to the detecting means and substantially normal to the plane of



polarization of the waves supplied by the source whereby the heterodyne detector will produce a difference frequency variation that is a function of the rate of motion of the moving object toward or from the radiating means, an indicator, and means to apply the produced difference frequency to said indicator, whereby an indication of the speed of the moving object may be produced.

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**2,645,770**
**TIME DIVISION MULTIPLEX RADIO SYSTEM**
**Henri Maurice Veaux, Saint-Leu-la-Foret, France**
**Application February 15, 1949, Serial No. 76,507**
**In France February 16, 1948**
**5 Claims. (Cl. 343—204)**



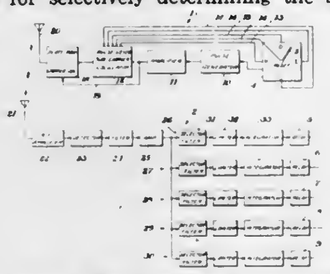
1. A communication system comprising a transmitter, a receiver, means at the transmitter for producing a signal to be transmitted, means for selecting and transmitting portions of said signal at regularly repeated time intervals, means at the receiver for intercepting the transmitted signal, signal reproducing means, means for feeding the signal directly from said intercepting means to said reproducing means, a delay line, means for feeding said signal from said intercepting means, through said delay line to said reproducing means, the delay of said line being such that the continuity of signals is preserved at said reproducing means by the alternate receipt of direct signals and signals from said delay

line, and means for compensating for the attenuation of the signals passing through said delay line.

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**2,645,771**
**PULSED RADIO REMOTE-CONTROL SYSTEM**
**Emile Labin, New York, N. Y., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware**
**Application April 18, 1945, Serial No. 588,961**
**6 Claims. (Cl. 343—225)**

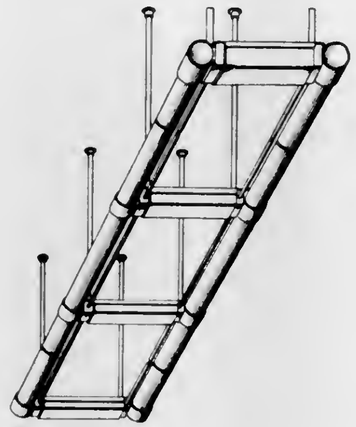
2. In a transmitter having a main carrier oscillator; oscillator means for producing any one of a plurality of predetermined sub-frequency signals as modulating energy for said main carrier oscillator, a single energy generator for simultaneously keying said main carrier oscillator and said oscillator means, and control means for said single energy generator and said oscillator means for selectively determining the sub-frequency output of said oscillator means during the operation of said single energy generator.



# DESIGNS

JULY 14, 1953

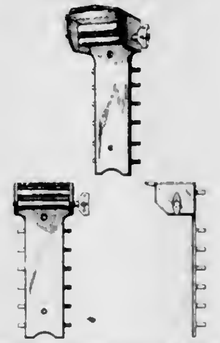
**169,999**
**FLUORESCENT TUBE LIGHTING FIXTURE**
**George Ainsworth, New Hyde Park, N. Y.**
**Application October 15, 1952, Serial No. 21,845**
**Term of patent 14 years**
**(Cl. D48—23)**



The ornamental design for a fluorescent tube lighting fixture, as shown and described.

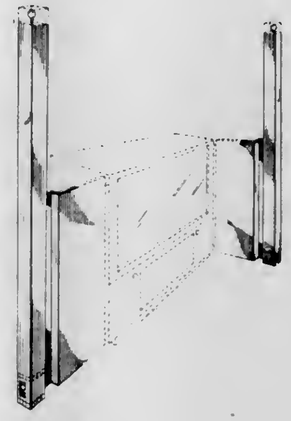
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**170,000**
**COMBINED TOOTH PASTE DISPENSER AND TOOTHBRUSH HOLDER**
**Joseph Arena, East Haven, Conn.**
**Application July 26, 1952, Serial No. 20,776**
**Term of patent 3½ years**
**(Cl. D4—3)**



The ornamental design for a combined tooth paste dispenser and tooth brush holder, as shown.

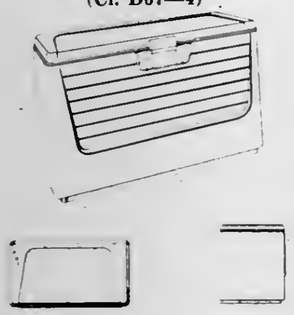
**170,001**
**TELEVISION CABINET OR SIMILAR ARTICLE**
**Jack Barofsky, Los Angeles, Calif.**
**Application August 14, 1952, Serial No. 21,037**
**Term of patent 14 years**
**(Cl. D56—4)**





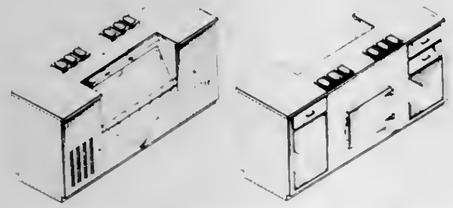
The ornamental design for a television cabinet or similar article, as shown and described.

170,002
**FREEZER CABINET**
Robert D. Budlong, Skokie, Ill., assignor to Amana Refrigeration, Inc., Amana, Iowa, a corporation of Iowa
Application August 19, 1952, Serial No. 21,116
Term of patent 14 years
(Cl. D67—4)



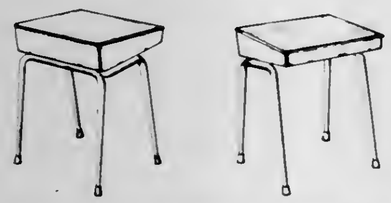
The ornamental design for a freezer cabinet, substantially as shown and described.

170,003
**COMBINED SERVICE AND DISPLAY COUNTER**
Thomas Carvel, Chauncey, N. Y.
Application January 9, 1953, Serial No. 23,088
Term of patent 14 years
(Cl. D80—11)



The ornamental design for a combined service and display counter, substantially as shown.

170,004
**DESK OR THE LIKE**
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,612
Term of patent 14 years
(Cl. D33—11)



The ornamental design for a desk or the like, as shown.

170,005
**COMBINATION DESK-CHAIR UNIT OR THE LIKE**
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,616
Term of patent 14 years
(Cl. D33—11)



The ornamental design for a combination desk-chair unit or the like, as shown and described.

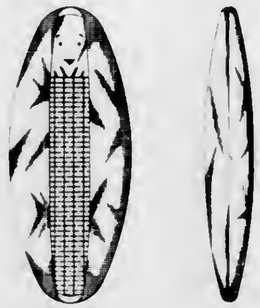
170,006
**TABLE OR THE LIKE**
David Chapman, Chicago, Ill., and Richard G. Reineman, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application February 13, 1953, Serial No. 23,618
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table or the like, as shown and described.

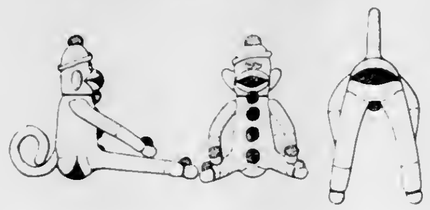


170,007
**DOLL**
Marjorie M. Collins, Ottawa, Kans.
Application October 11, 1952, Serial No. 21,809
Term of patent 3½ years
(Cl. D34—4)



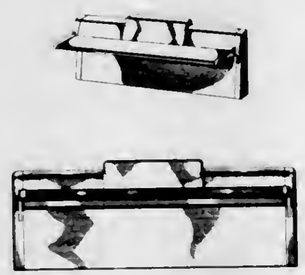
The ornamental design for a doll, as shown and described.

170,008
**DOLL**
Helen G. Cooke, Aurora, Colo.
Application November 17, 1952, Serial No. 22,326
Term of patent 14 years
(Cl. D34—2)

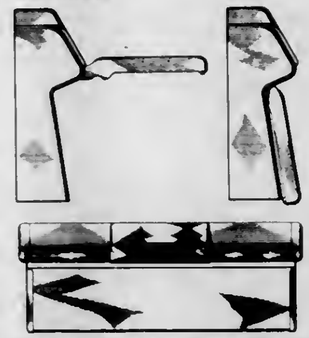


The ornamental design for a doll, as shown.

170,009
**COMBINED BACKGUARD AND SHELF FOR STOVES**
Gene H. Cripe and Richard J. Petersen, Los Angeles, Calif., assignors to Utility Appliance Corporation, Los Angeles, Calif., a corporation of California
Application February 4, 1952, Serial No. 18,375
Term of patent 14 years
(Cl. D81—25)

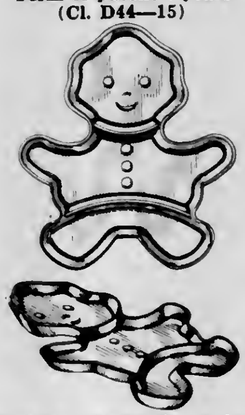


170,009—Continued



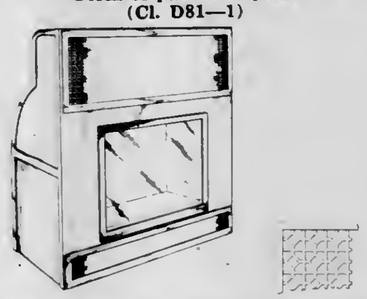
The ornamental design for a combined backguard and shelf for stoves, substantially as shown.

170,010
**BABY DISH**
James E. Donaldson, Chicago, Ill.
Application April 5, 1952, Serial No. 19,207
Term of patent 7 years
(Cl. D44—15)



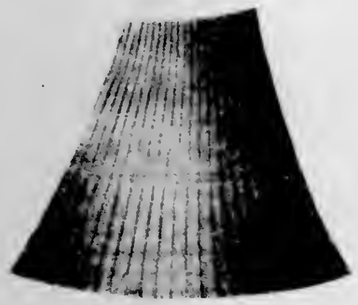
The ornamental design for a baby dish, as shown.

170,011
**HOT AIR FURNACE**
Raymond R. Dupler, Toledo, Ohio
Application November 3, 1952, Serial No. 22,112
Term of patent 14 years
(Cl. D81—1)



The ornamental design for a hot air furnace, as shown and described.

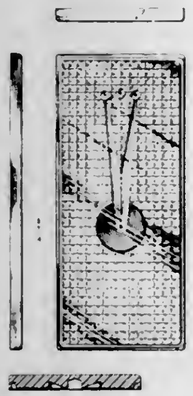
170,012
**SKIRT OR SIMILAR ARTICLE**
Samuel Feldman, Forest Hills, N. Y., assignor to Knit Wear Patents, Inc., Atlanta, Ga., a corporation of Georgia
Application September 20, 1952, Serial No. 21,536
Term of patent 14 years
(Cl. D3—26)





The ornamental design for a skirt or similar article, as shown and described.

170,013
**EMBLEM FOR HOUSEHOLD APPLIANCES OR THE LIKE**
Montgomery Ferar, Detroit, Mich., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application July 18, 1952, Serial No. 20,674
Term of patent 14 years
(Cl. D67—3)



The ornamental design for an emblem for household appliances or the like, as shown.

170,014
**TRAFFIC SIGNAL**
James R. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia
Application September 16, 1952, Serial No. 21,488
Term of patent 14 years
(Cl. D72—1)



The ornamental design for a traffic signal, as shown and described.

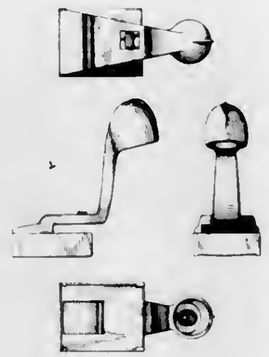
170,015
**SHOE**
Salvatore Ferragamo, Firenze, Italy
Application July 22, 1952, Serial No. 20,720
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a shoe, substantially as shown, and described.

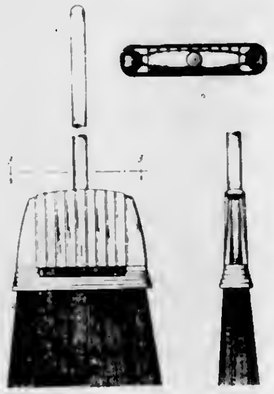


170,016
**CRADLE TELEPHONE LAMP**
Robert Foss, Chicago, Ill.
Application February 12, 1953, Serial No. 23,584
Term of patent 14 years
(Cl. D48—20)



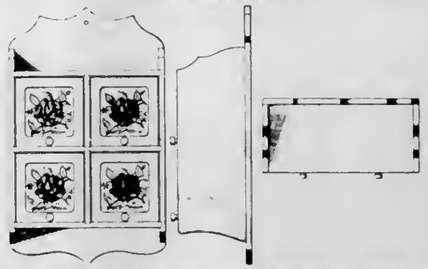
The ornamental design for a cradle telephone lamp, as shown.

170,017
**BROOM OR SIMILAR ARTICLE**
Emanuel Gantz, Harrison, N. Y., assignor to Empire Brushes, Inc., Port Chester, N. Y., a corporation of New York
Application June 17, 1952, Serial No. 20,232
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a broom or similar article, as shown and described.

170,018
**SPICE CABINET**
Charles H. Greenlee, New York, N. Y.
Application February 5, 1953, Serial No. 23,458
Term of patent 14 years
(Cl. D44—6)



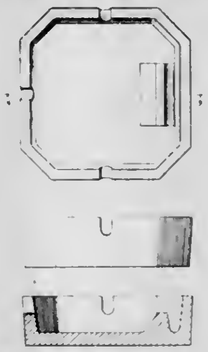
The ornamental design for a spice cabinet, as shown and described.

170,019
**COMBINATION GEAR BOX COVER AND SHAFT SUPPORT**
Paul W. Hainke, Hutchinson, Kans., assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans., a corporation of Kansas
Application January 5, 1953, Serial No. 23,009
Term of patent 14 years
(Cl. D77—1)



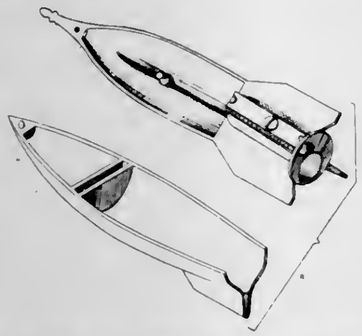
The ornamental design for a combination gear box cover and shaft support, as shown.

170,020
**ASH TRAY**
Ewing Harper, San Francisco, Calif.
Application August 17, 1951, Serial No. 16,318
Term of patent 7 years
(Cl. D85—2)



The ornamental design for an ash tray, as shown.

170,029—Continued



The ornamental design for a pencil sharpener and the like, substantially as shown.

170,030
**ILLUMINABLE PYLON**
Lloyd A. Sauer, Milwaukee, Wis.
Application July 18, 1952, Serial No. 20,662
Term of patent 3½ years
(Cl. D72—1)



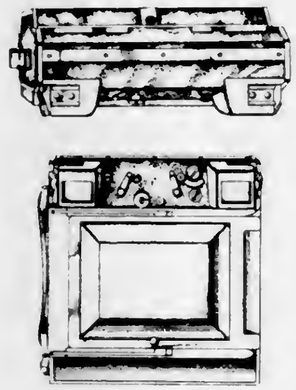
The ornamental design for an illuminable pylon, as shown.

170,031
**DESK**
Dorothy Schindele, Los Angeles, Calif.
Application January 23, 1953, Serial No. 23,268
Term of patent 14 years
(Cl. D33—7)



The ornamental design for a desk, as shown.

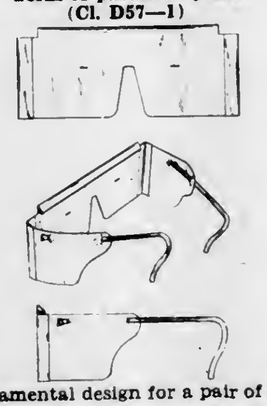
170,032
**PHOTOGRAPHIC CAMERA**
Morris Schwartz and William Castedello, Plainville, Conn., assignors to The Kalart Company Inc., Stamford, Conn.
Application December 31, 1947, Serial No. 143,462
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a photographic camera, as shown.

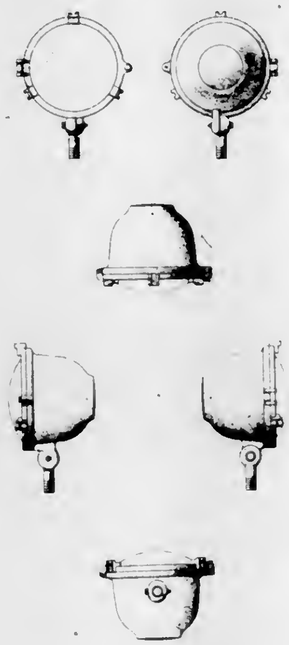


170,033
**PAIR OF SPECTACLES**
Julie R. Spencer, Denver, Colo.
Application January 5, 1953, Serial No. 23,002
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a pair of spectacles, as shown.

170,034
**SPOTLIGHT OR SIMILAR ARTICLE**
Philip G. Stone, Newark, N. J.
Application December 27, 1952, Serial No. 22,892
Term of patent 14 years
(Cl. D48—20)



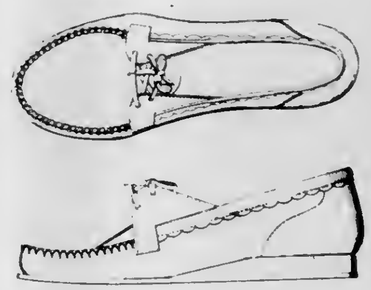
The ornamental design for a spotlight or similar article, as shown.

170,035
**NAIL FILE**
Henry Troya, Los Angeles, Calif.
Application January 21, 1953, Serial No. 23,230
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a nail file, substantially as shown.

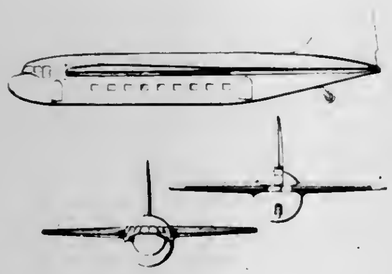
170,036
**MOCCASIN**
Ted J. Weiss, Dover, N. H.
Application July 10, 1952, Serial No. 20,536
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a moccasin, as shown.

**170,037**
**AIRPLANE**
**Carroll Williams, Gladwyne, Pa.**
**Application March 21, 1952, Serial No. 18,988**
**Term of patent 14 years**
**(Cl. D71—1)**





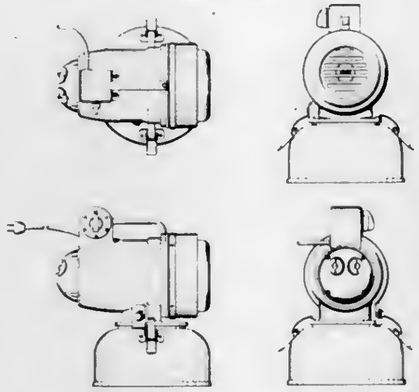
The ornamental design for an airplane, as shown and described.

**170,038**
**CABINET LOCK**
**Solomon Wise, Shaker Heights, Ohio**
**Application January 30, 1950, Serial No. 7,572**
**Term of patent 14 years**
**(Cl. D50—7)**



The ornamental design for a cabinet lock, as shown and described.

**170,039**
**SPRAYER FOR INSECTICIDES, DEODORANTS, OR THE LIKE**
**Frank A. Ziherl, Euclid, Ohio, assignor to Z & W Machine Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application November 6, 1952, Serial No. 22,174**
**Term of patent 14 years**
**(Cl. D31—3)**



The ornamental design for a sprayer for insecticides, deodorants or the like, substantially as shown.

July 21, 1953 Volume 672 Number 3

# Official Gazette

## UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

# Condition of Applications Under Examination at Close of Business June 30, 1953

Total number of patent applications awaiting action, 100,264. Date of oldest new application, September 20, 1952; date of oldest amended application, September 19, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| •(C. E. D.) KEELY, J. E. | 9-25-52 | 9-23-52 | 1476 |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 10-17-52 | 10-9-52 | 1201 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 11-13-52 | 11-8-52 | 1890 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 10-9-52 | 10-9-52 | 1480 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 10-20-52 | 10-20-52 | 985 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Oates. | 10-2-52 | 10-1-52 | 2629 |
| 6. SURLE, H., Carbon Chemistry (part) | 10-20-52 | 10-20-52 | 1646 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 10-20-52 | 10-20-52 | 1679 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 10-17-52 | 10-17-52 | 1258 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 11-1-52 | 11-5-52 | 1351 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 10-10-52 | 10-8-52 | 1153 |
| 11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacturer; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 10-31 52 | 10-10-52 | 1191 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 10-4-52 | 10-3-52 | 1243 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 10-23-52 | 10-28-52 | 1466 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 10-7-52 | 10-1-52 | 1664 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 10-8-52 | 10-7-52 | 1661 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 10-9-52 | 10-8-52 | 1557 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 10-17-52 | 10-15-52 | 691 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 10-4-52 | 10-4-52 | 1202 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 11-1-52 | 10-28-52 | 1322 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 10-1-52 | 10-1-52 | 1332 |
| 21. MADER, R. C., Textiles | 10-21-52 | 10-21-52 | 1033 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 10-7-52 | 10-2-52 | 875 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 11-28-52 | 11-28-52 | 1065 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 10-2-52 | 10-1-52 | 1321 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meal Cutters and Comminutors; Distillation. | 11-1-52 | 11-1-52 | 1890 |
| 26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 10-15-52 | 10-16-52 | 1230 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 11-1-52 | 11-5-52 | 1100 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 10-6-52 | 10-1-52 | 1146 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 12-8-52 | 12-8-52 | 1327 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 9-30-52 | 10-1-52 | 2465 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 11-13-52 | 11-6-52 | 1225 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 10-9-52 | 10-9-52 | 1881 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 10-1-52 | 10-8-52 | 1292 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 11-28-52 | 11-19-52 | 1192 |
| 35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles | 10-20-52 | 10-20-52 | 1103 |
| 36. McFADYEN, A. D., Measuring and Testing | 10-27-52 | 11-13-52 | 1689 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 10-24-52 | 10-22-52 | 1560 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 12-8-52 | 12-5-52 | 1680 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 1-6-53 | 1-5-53 | 943 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 10-29-52 | 10-29-52 | 1558 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | | | 597 |

•Commissioner's Examiners' Division.

| PATENT EXAMININO DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part): Electrical Conductors, Conduits, Insulators and Connectors. | 10-16-52 | 10-4-52 | 1955 |
| 43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-6-52 | 10-6-52 | 1788 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 10-29-52 | 10-28-52 | 1334 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 10-9-52 | 10-6-52 | 1096 |
| 47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 10-7-52 | 10-7-52 | 1622 |
| 48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting. | 9-20-52 | 9-24-52 | 1962 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 10-30-52 | 10-25-52 | 1354 |
| 50. BENOEL, W. O., Synthetic Resins; Rubber | 12-12-52 | 12-20-52 | 1597 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 10-7-52 | 10-8-52 | 1609 |
| 52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 11-8-52 | 11-17-52 | 1853 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 10-29-52 | 10-27-52 | 1000 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications. | 10-17-52 | 10-3-52 | 1876 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 10-28-52 | 10-24-52 | 944 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 11-15-52 | 11-15-52 | 1303 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 10-27-52 | 10-16-52 | 1710 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons. | 10-2-52 | 10-1-52 | 1411 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 10-31-52 | 10-31-52 | 1419 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 10-24-52 | 10-24-52 | 959 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 11-5-52 | 10-30-52 | 1211 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 10-2-52 | 10-2-52 | 1868 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 10-2-52 | 10-4-52 | 1829 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43. (671 O. G. 316). | | | |
| 66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales | 10-29-52 | 10-27-52 | 810 |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 11-1-52 | 10-29-52 | 1764 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 11-20-52 | 11-24-52 | 1410 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 10-17-52 | 10-6-52 | 1673 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 9-25-52 | 9-19-52 | 3431 |
| DESIGNS: A—BREHM, O. L., Industrial Arts | 3-2-3 | 3-2-3 | 965 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 3-2-3 | 3-5-3 | 857 |

Number of new applications received week ending June 12, 1953

PATENTS 1,454 DESIONS 121 REISSUES 7 TOTAL 1,582

Total number of trade-mark applications awaiting action (including renewals and republications), 10,887.
Date of oldest new application, Feb. 7, 1953; date of oldest amended application, Feb. 4, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 2-7-53 | 2-7-53 | 2718 |
| II. SUMMERS, O. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 2-16-53 | 2-20-53 | 2560 |
| Renewals (All Classes) | 4-29-53 | 6-8-53 | 491 |
| Republications (All Classes) | 5-6-53 | 6-27-53 | 208 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 2-20-53 | 2-20-53 | 2600 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 2-9-53 | 2-4-53 | 2313 |

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Advance Buying Corp., New York, N. Y. Women's and children's blouses and dresses. Serial No. 642,720, July 21. Class 39.

Ahern, Jack A.: *See*—
Nash, David D.

Aladdin Laboratories, Inc., Minneapolis, Minn. Hair rinse. Serial No. 624,522, July 21. Class 51.

Alboreo and Pratt, Akron, Ohio. Combined toothbrush and holder. Serial No. 634,879, July 21. Class 29.

Alky Shoes, Inc., Everett, Mass. Shoes. Serial No. 637,635, July 21. Class 39.

Allen & Hanburys, Limited, London, England. Pharmaceutical preparation. Serial No. 640,371, July 21. Class 18.

American District Steam Company, North Tonawanda, N. Y. Packless expansion joints for pipe lines. Serial No. 599,409, July 21. Class 13.

American Electro Metal Corporation, Yonkers, N. Y. Bearing structures. Serial No. 624,922, July 21. Class 23.

American Porcelain Tooth Company, Ltd., Naheat Itzhak, near Tel-Aviv, Israel. Artificial teeth. Serial No. 636,191, July 21. Class 44.

American Suralloy Steel Corporation, Cleveland, Ohio. Road plow and scraper metal blades; metal bars and metal plates. Serial No. 637,900, July 21. Class 23.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Vegetable oil shortening. Serial No. 639,463, July 21. Class 46.

Andrews Horse Radish Co., Inc., Wolcott, Conn. Horse radish and cocktail sauce. Serial No. 631,036, July 21. Class 46.

Anelex Corporation, Concord, N. H. Electromechanical printing apparatus. Serial No. 625,954, July 21. Class 26.

Ansul Chemical Company, Marinette, Wis. Cleaning solvent. Serial No. 638,514, July 21. Class 52.

Aplin & Barrett Limited, Yeovil, Somerset, England. Packaged meats. Serial No. 640,387, July 21. Class 46.

Archdale Manufacturing Co., Inc., High Point, N. C. Ladies' slips and half slips. Serial No. 630,746, July 21. Class 39.

Aron, J., & Company, Inc., New York, N. Y. Green coffee. Serial No. 645,374, July 21. Class 46.

Atchison, Topeka and Santa Fe Railway Company, The, Chicago, Ill. Railroad and bus transportation of passengers, etc. Serial No. 550,775, July 21. Class 105.

Atlantic Sponge & Chamois Corporation, New York, N. Y. Chamois. Serial No. 625,572, July 21. Class 1.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Ingredients comprising a primer, a primer accelerator, an uncompounded finisher, etc. Serial No. 624,589, July 21. Class 16.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Synthetic resin pipe. Serial No. 641,597, July 21. Class 13.

Automatic Buff Company, Chicago, Ill. Buffing wheels. Serial No. 592,184, July 21. Class 4.

Baitch & Castaldi, Inc., New York, N. Y. Ladies', misses', and children's coats, suits. Serial No. 591,275, July 21. Class 39.

Becton Dickinson and Company, Rutherford, N. J. Measuring rule. Serial No. 632,589, July 21. Class 26.

Bedford Shirt Corp., New York, N. Y. Men's and boys' sport shirts, sport jackets, and sport slacks. Serial No. 641,001, July 21. Class 39.

Big Gain Products: *See*—
Halverson, Charles.

Black and Decker Manufacturing Company, The, Towson, Md. Polish and cleaner. Serial No. 581,166, July 21. Class 4.

Black Manufacturing Co., The, Seattle, Wash. Men's and boys' work and sport clothing. Serial No. 637,355, July 21. Class 39.

Blalch, Adolph, Incorporated, San Francisco, Calif. Athletic clothing. Serial No. 638,059, July 21. Class 39.

Bloom Shoe Shop, New York, N. Y. Ladies' and men's open casual sandals. Serial No. 636,964, July 21. Class 39.

Bourjois, Inc., New York, N. Y. Perfume. Serial No. 641,008, July 21. Class 51.

Bradshaw, R. D., & Sons, Wendell, Ohio. Crystallized honey. Serial No. 642,010, July 21. Class 46.

Bray, J. W., Company: *See*—
Bray, James W., Sr.

Bray, James W., Sr., doing business as J. W. Bray Company, Dalton, Ga. Chenille scuffies. Serial No. 618,912, July 21. Class 39.

Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. Serial No. 633,236, July 21. Class 39.

Bullard Company, The, Bridgeport, Conn. Machine tool. Serial No. 519,056, July 21. Class 23.

Bullard, E. D., Company, San Francisco, Calif. First aid kits. Serial No. 567,944, July 21. Class 44.

Burkart, F., Manufacturing Co., St. Louis, Mo. Ladies' and misses' shoes. Serial No. 633,531, July 21. Class 39.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. Serial No. 634,030, July 21. Class 18.

Butler Brothers, Chicago, Ill. Footballs, basket balls, baseballs, etc. Serial No. 640,010, July 21. Class 22.

Butterfield, George P., doing business as Slip Ease Products Co., Chicago, Ill. Chemical composition. Serial No. 628,844, July 21. Class 6.

Callaway Mills Company, La Grange, Ga. Washable articles of wearing apparel. Serial No. 637,569, July 21. Class 39.

Caltex Sportswear Co. of California, Inc., Los Angeles, Calif. Women's and misses' brassières. Serial No. 636,630, July 21. Class 39.

Campbell, Harry T., Sons' Corp., Towson, Md. Dry ground limestone. Serial No. 640,809, July 21. Class 1.

Cardinal Chemical, Inc., Dallas, Tex. Liquid corrosion inhibitor. Serial No. 643,141, July 21. Class 6.

Carolina Coffee Company, Charleston, S. C. Coffee, tea, ground pepper, etc. Serial No. 618,623, July 21. Class 46.

Chanticleer Food Products: *See*—
Pulford, George W. S.

Cherry-Burrell Corporation, Chicago, Ill. Industrial magazine. Serial No. 628,521, July 21. Class 38.

Chester Laboratories, Inc., Beacon, N. Y. Geriatric nutritional supplement. Serial No. 625,789, July 21. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. Serial No. 641,124, July 21. Class 18.

Ciba Limited, Basel, Switzerland. Coal tar colors. Serial No. 642,015, July 21. Class 6.

Cliff Co., Chicago, Ill. Work rest blades for centerless grinders. Serial No. 631,272, July 21. Class 23.

Cocilana, Inc., Brooklyn, N. Y. Cough drops. Serial No. 628,922, July 21. Class 18.

Coe Laboratories, Inc., Chicago, Ill. Blood coagulating or hemostatic material. Serial No. 641,432, July 21. Class 18.

Collectron (Proprietary) Limited, Johannesburg, Union of South Africa. Electrostatic dust precipitating equipment. Serial No. 636,877, July 21. Class 21.

Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Solution for making a master sheet out of paper or similar products to obtain reproductions therefrom. Serial No. 635,684, July 21. Class 6.

Community Drug Co., Inc., Arlington, Va., and at other locations, both within and without the State of Virginia. Aspirin, saccharine tablets, glycerine suppositories, etc. Serial No. 612,060, July 21. Class 18.

Comptoir de l'Industrie Cotonniere Societe a Responsabilite Limitee, Paris, France. Junior misses', misses', and ladies' coats, dresses, gowns, etc. Serial No. 619,486. July 21. Class 39.

Congoleum-Nairn, Inc., Kearny, N. J. Cork and cork composition. Serial No. 639,742, July 21. Class 1.

Cummins Engine Company, Inc., Columbus, Ind. Trade periodicals, circulars and pamphlets. Serial No. 637,039, July 21. Class 38.

Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier, Fils Aine & Cie), Paris, France. Alcoholic cordials. Serial No. 617,713, July 21. Class 49.

Cutler Growers Exchange, Cutler, Calif. Fresh vegetables. Serial No. 620,497, July 21. Class 46.

Dapag (1943) Limited, London, England. Printing machines and parts thereof. Serial No. 621,958, July 21. Class 23.

Davis Manufacturing Co.: *See*—
Davis Manufacturing Co., Inc.

Davis Manufacturing Co., Inc., doing business as Davis Manufacturing Co., Knoxville, Tenn. Liquid preparation which is put on live or artificial bait. Serial No. 626,609, July 21. Class 22.

Davis Wholesale Drug Co., Inc., Baton Rouge, La. Liniment. Serial No. 619,803, July 21. Class 18.

Dayton Pump & Manufacturing Company, The, Dayton, Ohio. Water-softeners. Serial No. 635,689, July 21. Class 31.

Dayton Rubber Company, The, Dayton, Ohio. Printed attachable and detachable labels. Serial No. 635,636, July 21. Class 38.

Deromel, E. K., Co., Inc., Paterson, N. J. Medicated bandages. Serial No. 637,704, July 21. Class 18.

Denver Chemical Manufacturing Company, The, New York, N. Y. Medicated rub. Serial No. 637,988, July 21. Class 18.

Diamond Alkali Company, Cleveland, Ohio. Washing compound. Serial No. 623,651, July 21. Class 52.

Dickerson, Walter T., Company, The, Columbus, Ohio. Women's and misses' shoes. Serial No. 625,345, July 21. Class 39.

Dickey Manufacturing Co., The, Toledo, Ohio. Awnings, banners, flags, etc. Serial No. 621,548, July 21. Class 50.

Dodd Chemical Co.: *See*—
Dodd Chemical Corporation.

Dodd Chemical Corporation, doing business as Dodd Chemical Co., Little Ferry, N. J. Lacquer surface protective coating compositions. Serial No. 612,993, July 21. Class 16.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 641,608, July 21. Class 12.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 642,271, July 21. Class 12.

Douglas, W. L., Shoe Company, Nashville, Tenn. Boots and shoes. Serial No. 635,412, July 21. Class 39.

Dow Corning Corporation, Midland, Mich. Organopolysiloxane fluids for use as polishes and polish additives. Serial No. 640,920, July 21. Class 4.

Duchess Hosiery Corporation, New York, N. Y. Women's hosiery. Serial No. 619,074, July 21. Class 39.

Eastern-Columbia, Inc., Los Angeles, Calif. Sewing machines. Serial No. 608,243, July 21. Class 23.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vacuum diffusion pump fluids comprising chlorinated hydrocarbon oils. Serial No. 640,111, July 21. Class 6.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. High vacuum gaskets. Serial No. 640,113, July 21. Class 35.

Easton National Bank, The, executor: *See*—
Van Doren, Palmer.

Edmundson-Duhe Rice Mill Co. Inc., Rayne, La. Milled rice. Serial No. 640,789, July 21. Class 46.

Emerson, R., Inc., Washington, D. C. Jewelry. Serial No. 631,098, July 21. Class 28.

Eutectic Welding Alloys Corporation, New York, N. Y. Preparation for removing slag residues from metal surfaces, and for conditioning such metal surfaces. Serial No. 635,358, July 21. Class 52.

Eversharp, Inc., Chicago, Ill. Pens and pencils. Serial No. 641,833, July 21. Class 37.

Fabergé, Inc., New York, N. Y. Soap. Serial No. 638,413, July 21. Class 52.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Synthetic polyester elastomer. Serial No. 637,707, July 21. Class 1.

Farbwerke Hoechst, Vormals Meister Lucius & Bruning, Frankfurt am Main Hochst, Germany. Detergents. Serial No. 634,432, July 21. Class 52.

Ferber Corporation, Englewood, N. J. Ball point pens, fountain pens, stylo type pens, etc. Serial No. 632,362, July 21. Class 37.

Fiberesin Plastics Company, Oconomowoc, Wis. Laminated plastic sheets, panels, strips, blocks, etc. Serial No. 641,173, July 21. Class 1.

Flamort Chemical Co., San Francisco, Calif. Preparations for fireproofing wood, wood products, paper, etc. Serial No. 639,927, July 21. Class 6.

Fleishman's Pickles, Inc., St. Louis, Mo. Whole, cut-up, and sliced pickles, pickled relish, pickled tomatoes, etc. Serial No. 565,872, July 21. Class 46.

Flint, Eaton and Company, Decatur, Ill. Therapeutic iron compound. Serial No. 641,036, July 21. Class 18.

Flour Mills of America, Inc., doing business under the style name of Kansas Flour Mills Company, Kansas City, Mo. Wheat flour. Serial No. 622,786, July 21. Class 46.

Forman, Julie R., Litchfield, Conn. Collapsible luggage dollies. Serial No. 646,609, July 21. Class 19.

Forrest Knitting Mills, also trading as Highland Knitting Mills, Philadelphia, Pa. Men's, women's, boys', and girls' bathing suits, bathing trunks, shirts, etc. Serial No. 592,561, July 21. Class 39.

Free, R. G., doing business under the style name of Pet Food Packers, Washington Court House, Ohio. Animal foods. Serial No. 642,810, July 21. Class 46.

French, Shriner & Urner Manufacturing Co., Boston, Mass. Boots and shoes. Serial No. 613,061, July 21. Class 39.

Fyfe, R. H., & Co., Detroit, Mich. Men's, women's, and children's boots, shoes, and slippers. Serial No. 642,509, July 21. Class 39.

Gabriel Company, The, Cleveland, Ohio. Television antenna. Serial No. 641,616, July 21. Class 21.

Gard Industries, Skokie, Ill. Waterproofing composition. Serial No. 609,721, July 21. Class 6.

Gellich Leather Company, Taunton, Mass. Leather. Serial Nos. 636,887–91, July 21. Class 1.

Gem Jewelry Company of Beaumont, Inc., Beaumont, Tex. Diamond rings. Serial No. 637,868, July 21. Class 28.

General Dyestuff Corporation, New York, N. Y. Dyestuff stripping agent. Serial No. 643,150, July 21. Class 6.

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Balloons adapted to suspend meteorological and other scientific and signalling instruments. Serial No. 622,742, July 21. Class 26.

General Petroleum Corporation, Los Angeles, Calif. Partially printed and perforated forms, and books of such forms. Serial No. 610,172, July 21. Class 37.

Gerber, J., & Co., Inc., New York, N. Y. Wooden doors and windows. Serial No. 643,001, July 21. Class 12.

Germaine Monteil Cosmetiques Corporation, New York, N. Y. Lipstick and cream rouge. Serial No. 627,398, July 21. Class 51.

Glatz, Felix, Import Co., Inc., New York, N. Y. Printed chart and indicating device thereon. Serial No. 632,371, July 21. Class 38.

Globe Products of Florida, Inc., Clearwater, Fla. Shampoo cleaner concentrate for rugs, upholstery, draperies, etc. Serial No. 644,109, July 21. Class 52.

Gold Cross Organization, The: *See*—
Interstate Bakeries Corporation.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Footwear. Serial No. 582,288, July 21. Class 39.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Wringer rolls for washing machines. Serial No. 582,298, July 21. Class 24.

Goodrich, B. F., Company, The, Akron, Ohio. Pulley lagging made of rubber and textile material for use with flat belting. Serial No. 616,766, July 21. Class 35.

Gordon Chemical Co., Inc., Kansas City, Mo. Liquid wood preservative. Serial No. 620,501, July 21. Class 6.

Graham, John H., & Co., Inc., New York, N. Y. Garden and lawn cultivators. Serial No. 640,511, July 21. Class 23.

Grant Toy Co., Van Nuys, Calif. Doll clothes. Serial No. 644,415, July 21. Class 22.

Graton & Knight Company, Worcester, Mass. Baseball sets. Serial No. 646,664, July 21. Class 22.

Great Lakes Carbon Corporation, New York, N. Y. Light weight siliceous powdered and granular materials. Serial Nos. 632,814–15, July 21. Class 1.

Gunnison Homes, Incorporated, New Albany, Ind. Prefabricated homes. Serial No. 643,150, July 21. Class 12.

Halverson, Charles, trading and doing business as Big Gain Products, West Union, Iowa, Mankato, Minn., and De Kalb, Ill. Livestock and poultry feeds. Serial No. 621,061, July 21. Class 46.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Polishing, buffing, cleaning, pickling, degreasing and washing machines and parts thereof. Serial No. 618,293, July 21. Class 23.

Harbison-Walker Refractories Company, Pittsburgh, Pa. High duty fireclay refractory brick. Serial No. 643,096, July 21. Class 12.

Harriman, Alfred E., doing business as Harriman Products Co., Los Angeles, Calif. General cleaning preparation. Serial No. 630,007, July 21. Class 52.

Harriman Products Co.: *See*—
Harriman, Alfred E.

Hart & Cooley Manufacturing Co., Holland, Mich. Germicide and antiseptic. Serial No. 624,135, July 21. Class 18.

Heddon's, James, Sons, Dowagiac, Mich. Fishing tackle. Serial No. 636,708, July 21. Class 22.

Hepton & Co. (Clothiers) Limited, Leeds, England. Trousers. Serial No. 640,121, July 21. Class 39.

Herald Products Company: *See*—
Schulenburg, George F.

Highland Knitting Mills: *See*—
Forrest Knitting Mills.

Hobbycraft Paint Company: *See*—
Preservative Paint Co.

Hocking, John E., administrator: *See*—
Van Doren, Palmer.

Hoglund Engineering and Manufacturing Company, Inc., Berkeley Heights, New Providence Township, Union County, N. J. Manually or electrically driven grinding wheel dressers. Serial No. 610,271, July 21. Class 23.

Holiday Ranch, Inc., Columbia Falls, Mont. Incense. Serial No. 643,548, July 21. Class 6.

Hollingshead, R. M., Corporation, Camden, N. J. Rust and corrosion inhibitors. Serial No. 624,545, July 21. Class 6.

Horowitz, Charles, New York, N. Y. Leather. Serial Nos. 619,831–2, July 21. Class 1.

House of Stuart, Incorporated, The, Newark, N. Y. Cleansing cream, cleansing lotion, dry complexion cream, etc. Serial No. 605,033, July 21. Class 51.

Houston-Fearless Corporation, assignee: *See*—
Monogram Manufacturing Company.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Power-operated sprayers for agricultural use. Serial No. 632,302, July 21. Class 23.

Industrial Tectonics, Inc., Ann Arbor, Mich. Precision machined balls. Serial No. 637,378, July 21. Class 23.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Threading equipment for rock drill steel rods. Serial No. 638,420, July 21. Class 23.

Institute of Radio Engineers, Inc., The, New York, N. Y. Publications. Serial No. 642,144, July 21. Class 38.

International Minerals & Chemical Corporation, Chicago, Ill. Bakery products. Serial No. 641,027, July 21. Class 46.

International Minerals & Chemical Corporation, Chicago, Ill. Ferric chloride; potassium carbonate, both hydrated and calcined, etc. Serial No. 643,164, July 21. Class 6.

Interstate Bakeries Corporation, Kansas City, Mo., doing business as The Gold Cross Organization, Chicago, Ill. Health counselling and care service providing for periodic medical examinations, etc. Serial No. 621,905, July 21. Class 100.

Inwood, Louis R., Kansas City, Mo. Coin operated vending machine. Serial No. 641,449, July 21. Class 23.

J & W Steel Products, Inc., Bessemer, Ala. Children's swings. Serial No. 641,681, July 21. Class 22.



Jackson Industries, Inc., Chicago, Ill. Video receivers, radio receiving apparatus, electric phonograph apparatus, etc. Serial No. 594,841, July 21. Class 21.

Johnson, Gordon, Company, Kansas City, Mo. Poultry eviscerating equipment. Serial No. 632,614, July 21. Class 23.

Kabo, Inc., Chicago, Ill. Brassières, foundation garments, girdles, etc. Serial No. 628,209, July 21. Class 39.

Kabo, Inc., Chicago, Ill. Girdles. Serial No. 642,558, July 21. Class 39.

Kansas Flour Mills Company: *See*—
Flour Mills of America, Inc.

Katz, Eric, Los Angeles, Calif. Pliers, knives, clippers, and shears. Serial No. 627,301, July 21. Class 23.

Kay Cookie Company: *See*—
Suprise, Arthur.

Kepec Chemical Corporation, Milwaukee, Wis. Compositions, for use as leather dressings and leather polishes, etc. Serial No. 624,274, July 21. Class 4.

Kern & Co. Ltd., Aarau, Switzerland. Photographic objective lenses with filters. Serial No. 641,513, July 21. Class 26.

Kern & Co. Ltd., Aarau, Switzerland. Binoculars. Serial No. 641,514, July 21. Class 26.

Kern & Co. Ltd., Aarau, Switzerland. Binoculars, telescopes, objective lenses. Serial No. 641,515, July 21. Class 26.

Kirk's, Inc., Oklahoma City, Okla. Men's and women's shoes. Serial No. 622,748, July 21. Class 39.

Laud O'Frost Products, Chicago, Ill. Roast beef and barbeque sauce, roast beef and gravy, etc. Serial No. 616,209, July 21. Class 46.

Lawrence Machine and Pump Corporation, Lawrence, Mass. Centrifugal pumps. Serial No. 633,111, July 21. Class 23.

Lees-Bradner Company, The, Cleveland, Ohio. Machine tools. Serial No. 587,387, July 21. Class 23.

Les Laboratoires Albert Rolland, Societe Anonyme, Paris, France. Medicine in ampule form for physical or mental depression, etc. Serial No. 641,062, July 21. Class 18.

Les Laboratoires Albert Rolland, Societe Anonyme, Paris, France. Sedative. Serial No. 641,063, July 21. Class 18.

Lilyette Brassiere Co., Inc., New York, N. Y. Brassières. Serial No. 642,412, July 21. Class 39.

Lower Third Supply Company: *See*—
McDonald, Forrest R.

Maggioni, L. P., & Company, Savannah, Ga. Canned oysters and canned shrimp. Serial No. 639,483, July 21. Class 46.

Maggioni, L. P., & Company, Savannah, Ga. Canned, fresh, and fresh frozen vegetables. Serial No. 645,248, July 21. Class 46.

Maico Company, Incorporated, The, Minneapolis, Minn. Electronic hearing aids. Serial No. 638,304, July 21. Class 44.

Maier, Hermann R., Andover, N. J. Plastic cookie-cutting molds. Serial No. 641,557, July 21. Class 23.

Majestic Fuel Oil Company, Inc., Brooklyn, N. Y. Thermally-responsive safety switch for cutting off boiler fuel supply. Serial No. 621,361, July 21. Class 26.

Manufacturers and Traders Trust Company: *See*—
Nash, David D.

Marine Products Company, Detroit, Mich. Positive-displacement rotary liquid pumps. Serial No. 547,860, July 21. Class 23.

Marzetti, T., Company, Columbus, Ohio. Prepared salad dressings and canned soups. Serial No. 642,482, July 21. Class 46.

Matter, A. J., Mfg. Co., Chicago, Ill. Table leveling glides. Serial No. 639,382, July 21. Class 13.

Mayer, Jacob, Easton, Pa. Men's and boys' hats, suits, sport coats, etc. Serial No. 636,532, July 21. Class 39.

McDonald, Forrest R., doing business as Lower Third Supply Company, Alexander, La. Pulverized stone-sport coats, etc. Serial No. 636,532, July 21. Class 12.

Medical Specialties, Inc., Rochester, Minn. Composition for mitigating nausea. Serial No. 607,227, July 21. Class 18.

Merck & Co., Inc., Rahway, N. J. Vitamins. Serial No. 636,139, July 21. Class 18.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. Serial No. 639,121, July 21. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. Serial No. 639,123–4, July 21. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. Serial No. 639,126–8, July 21. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. Serial No. 639,130–2, July 21. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. Serial No. 639,135, July 21. Class 38.

Meredith Publishing Company, Des Moines, Iowa. Section in a periodic publication. Serial No. 639,138, July 21. Class 38.

Miller Electric Manufacturing Co., Inc., Appleton, Wis. House organ. Serial No. 642,237, July 21. Class 38.

Milner Products Company, Jackson, Miss. Powdered bleach. Serial No. 636,243, July 21. Class 6.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Vacuum operated machine. Serial No. 640,469, July 21. Class 23.

Mobile Paint Mfg. Co., Inc., Mobile, Ala. Exterior paint. Serial No. 642,042, July 21. Class 16.

Monark Silver King, Inc., Chicago, Ill. Bicycles. Serial No. 631,808, July 21. Class 19.

Monogram Manufacturing Company, Los Angeles, and West Los Angeles, assignor by mesne assignments, to Houston-Fearless Corporation, Los Angeles, Calif. Adjustable mechanical seal. Serial No. 574,153, July 21. Class 35.

Monsanto Chemical Company, St. Louis, Mo. Soluble fertilizer concentrates. Serial No. 641,684, July 21. Class 10.

Moore, John W., doing business as Moore Products Mfg. Co., Ames, Iowa. Cleaner. Serial No. 624,348, July 21. Class 52.

Moore Products Mfg. Co.: *See*—
Moore, John W.

Mortensen, Carl, doing business as U. S. Marine Chemicals Co., New York, N. Y. Chemical additives to fuel oil and lubricating oil. Serial No. 641,200, July 21. Class 15.

Mother's Food Products, Inc., Newark, N. J. Sauerkraut. Serial No. 640,470, July 21. Class 46.

Mulhern, John, Company, San Francisco, Calif. Extracts, concentrates, compounds, and flavoring preparations. Serial No. 611,445, July 21. Class 45.

Mutation Mink Breeders Association, Racine, Wis. Mink pelts. Serial No. 640,046, July 21. Class 1.

Nash, David D., and J. A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, doing business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Various machines and tools. Serial No. 624,352, July 21. Class 23.

Nash, David D., and J. A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, who conducted his business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Pressure responsive gauges. Serial No. 624,354, July 21. Class 26.

Nash, David D., and J. A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, doing business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Various machines and tools. Serial No. 624,355, July 21. Class 23.

Nash, David D., and J. A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, who conducted his business under the name of "K. R. Wilson," Arcade and Buffalo, N. Y. Pressure responsive gauges. Serial No. 624,357, July 21. Class 26.

National Bellas Hess, Inc., North Kansas City, Mo. Men's, women's, and girls' shoes and slippers. Serial No. 629,450, July 21. Class 39.

National Board of The Young Women's Christian Association of the United States of America, The: *See*—
National Board of the Young Women's Christian Association of the U. S. A., The.

National Board of The Young Women's Christian Association of the U. S. A., The, New York, N. Y., by change of name from The National Board of the Young Women's Christian Associations of the United States of America. Building a fellowship of women and girls. Serial No. 519,770, July 21. Class 100.

National Chinchilla Breeders of America, Incorporated, Salt Lake City, Utah. Live chinchillas. Serial No. 619,209, July 21. Class 1.

National Health Aids of Baltimore, Inc., Baltimore, Md. Dietary accessory designed to compensate for certain nutritional deficiencies. Serial No. 631,367, July 21. Class 18.

Nepera Chemical Co., Inc., Nepera Park, N. Y. Nasal and aerosol preparation. Serial No. 637,785, July 21. Class 18.

Nepera Chemical Co., Inc., Nepera Park, N. Y. Antihistaminic, analgesic, and antipyretic composition. Serial No. 640,353, July 21. Class 18.

Nilson, Carolyn, doing business under the name Carolyn Nilson, Cosmetics, Detroit, Mich. Cosmetics and toilet preparations. Serial No. 641,080, July 21. Class 51.

Nilson, Carolyn Cosmetics: *See*—
Nilson, Carolyn.

Norsan Products, Inc., Cleveland, Ohio. Suds for dishes and free rinse. Serial No. 644,340, July 21. Class 52.

Nunrala-Bawen Shoe Co., Inc., St. Louis, Mo. Women's shoes. Serial No. 631,678, July 21. Class 39.

Oculine Company, Inc., The, Beverly Hills, Calif. Medicinal preparations. Serial No. 624,497, July 21. Class 18.

Old Empire Manufacturing Chemists, Inc., doing business as Elizabeth Whitney, Newark, N. J. Skin creams, hand lotion, cream deodorant, etc. Serial No. 635,049, July 21. Class 51.

Orvis, Chas. F., Company, Inc., Manchester, Vt. Fishing rods, reels and reel cases, fishing lines, etc. Serial No. 633,626, July 21. Class 22.

Oval Manufacturing Company, Inc., New York, N. Y. Articles of jewelry. Serial No. 625,292, July 21. Class 28.

Paramount Aluminum Products Corp., Mineola, N. Y. Storm windows. Serial No. 644,343, July 21. Class 12.

Pass & Seymour, Inc., Syracuse, N. Y. Electric wiring devices and parts thereof. Serial No. 633,374, July 21. Class 21.

Patch, E. L., Company, The, Stoneham, Mass. Medicinal preparation. Serial No. 612,031, July 21. Class 18.

Penney, Milton H., doing business as Penney Woodcraft Industries, Defiance, Ohio. Boat kits. Serial No. 644,565, July 21. Class 19.

Penney Woodcraft Industries: *See*—
Penney, Milton H.

Pet Food Packers: *See*—
Free, R. G.

Phelan, Helen, doing business as Trade-A-Shoe, Flushing, N. Y. Shoes. Serial No. 635,053, July 21. Class 39.

Philadelphia Girl Coat Company, Philadelphia, Pa. Children's coats, leggings, and snow suits. Serial No. 629,513, July 21. Class 39.

Picker X-Ray Corporation, New York, N. Y. Tablets for internal administration which are used as a dye in cholecystography. Serial No. 633,628, July 21. Class 18.

Pillow-Pal Radios, Inc., Malden, Mass. Portable radio speakers. Serial No. 616,867, July 21. Class 21.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial Nos. 635,055–6, July 21. Class 46.

Pittsburgh Forgings Company, Coraopolis, Pa. Farm implements. Serial No. 598,387, July 21. Class 23.

Plasco Safety Products Company, The: *See*—
Rittoff, David.

Plastic Engineering & Sales Corporation, Fort Worth, Tex. Molded seal rings. Serial No. 633,996, July 21. Class 35.

Plast-O-Matic Corporation, Fitchburg, Mass. Plastic toys. Serial No. 642,367, July 21. Class 22.

Porter, Wellington W., Waterloo, N. Y. Harvesters, and parts thereof. Serial No. 633,630, July 21. Class 23.

Preservative Paint Co., doing business as Hobbycraft Paint Company, Seattle, Wash. Dry and ready-mixed paints, paint enamel, and varnish. Serial No. 640,961, July 21. Class 16.

Prince Ice Cream Castles, Inc., Sterling, Ill. Foods employing ice cream products. Serial No. 577,984, July 21. Class 46.

Progressive Products, assignor to Progressive Products, Inc., La Mesa, Calif. Anti-thumb sucking device. Serial No. 630,284, July 21. Class 44.

Progressive Products, Inc., assignee: *See*—
Progressive Products.

Pronto Products Co., Kansas City, Kans. Grain fumigants. Serial No. 628,051, July 21. Class 6.

Pulford, George W. S., doing business under the firm name Chanticleer Food Products, Windsor, Ontario, Canada. Food beverages. Serial No. 620,388, July 21. Class 46.

Radiator Specialty Company, Charlotte, N. C. Flush tank balls. Serial No. 610,631, July 21. Class 13.

Radio Corporation of America, New York, N. Y. Air conditioners, their component and replacement parts, etc. Serial No. 631,220, July 21. Class 34.

Reaction Products Co., The, Richmond, Calif. Chemical cleanser for copper, stainless steel, etc. Serial No. 598,865, July 21. Class 52.

Rebuilt Engine Products Company, Detroit, Mich. Reconditioned internal combustion engines. Serial No. 640,529, July 21. Class 23.

Reece, Edward M., New York, N. Y. Ladies' and men's gloves. Serial No. 640,962, July 21. Class 39.

Reichhold Chemicals, Inc., Detroit, Mich. Synthetic resins and solutions thereof. Serial No. 637,210, July 21. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Dehydrated castor oil. Serial No. 640,305, July 21. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Castor oil base plasticizers. Serial No. 640,306, July 21. Class 6.

Reichhold Chemicals, Inc., Detroit, Mich. Polyester resins. Serial No. 642,048, July 21. Class 6.

Republic Oil Refining Company, Pittsburgh, Pa. Lubricating oil. Serial No. 642,509, July 21. Class 15.

Rich Guild Shirt Company, New York, N. Y. Men's sport shirts and dress shirts. Serial No. 640,807, July 21. Class 39.

Richardson, Andrew J., doing business as The-Onlee Float Ball Valve Co., Lubbock, Tex. Ball type float valves. Serial No. 641,330, July 21. Class 13.

Rittoff, David, doing business as The Plasco Safety Products Company, Springfield, Ohio. Protective apparel. Serial No. 629,915, July 21. Class 39.

Robin Hood Popcorn Co., Inc., Minneapolis, Minn. Buttered popcorn. Serial No. 638,314, July 21. Class 46.

Rowntree and Company Limited, London, England. Candy lozenges containing medicaments. Serial No. 638,738, July 21. Class 18.

Samuels Shoe Company, St. Louis, Mo. Ladies' and misses' shoes. Serial No. 640,965, July 21. Class 39.

Sandox Chemical Works, Inc., New York, N. Y. Metalized dyestuffs. Serial No. 635,197, July 21. Class 6.

Scarves By Vera, Inc., New York, N. Y. Scarves. Serial No. 630,031, July 21. Class 39.

Schulenburg, George F., doing business as Herald Products Company, St. Louis, Mo. Preparation for treating hosiery to prevent runs. Serial No. 635,886, July 21. Class 6.

Schutter Candy Company, Chicago, Ill. Candy bars. Serial No. 644,797, July 21. Class 46.

'Scoffee, Inc., Hewlett, N. Y. Carbonated coffee flavored maltless soft drinks and coffee flavored extract. Serial No. 616,646, July 21. Class 45.

Semplant Chemical Corporation, New Bedford, Mass. Irish moss extractives in the pure state; Irish moss extractives with added potassium salts used as ingredients in the manufacture of various confectionery products. Serial No. 629,258, July 21. Class 46.

Seaporcel Metals, Inc., Long Island City, N. Y. Insulated porcelain enamel panels. Serial No. 635,790, July 21. Class 12.

Sears, Roebuck and Co., Chicago, Ill. Fountain pens. Serial No. 639,842, July 21. Class 37.

Sedutto Company, The, New York and Staten Island, assignor to 314 New Dorp Lane Corp., New York, N. Y. Ice cream and frozen confections. Serial No. 605,688, July 21. Class 46.

Selby Shoe Company, The, Portsmouth, Ohio. Women's shoes. Serial No. 638,667, July 21. Class 39.

Shirtcraft Company, Inc., The, New York, N. Y. Men's and boys' work, dress, and negligee shirts. Serial No. 616,056, July 21. Class 39.

Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's shoes. Serial No. 624,505, July 21. Class 39.

Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's shoes. Serial No. 640,309, July 21. Class 39.

Sigma Phi Epsilon Fraternity, Richmond, Va. Recruiting and pledging prospective members of the chapters of a national collegiate fraternity. Serial No. 598,045, July 21. Class 100.

Sil-oo-ette Systems, Inc.: *See*—
Slenderella Systems, Inc.

Slenderella Systems, Inc., Chicago, Ill., New York, N. Y., and Washington, D. C., formerly Sil-oo-ette Systems, Inc. Preparation for the treatment of obesity or useful in weight control. Serial No. 618,864, July 21. Class 18.

Slip Ease Products Co.: *See*—
Butterfield, George P.

Smith, Ann A., New York, N. Y. Aprons. Serial No. 616,392, July 21. Class 39.

Soil-Tone Corporation, Plymouth, N. C. Fertilizer. Serial No. 642,096, July 21. Class 10.

Spencer, Julie R., Denver, Colo. Spectacles for viewing television. Serial No. 641,473, July 21. Class 26.

Staley, A. E., Manufacturing Company, Decatur, Ill. Periodical. Serial No. 634,763, July 21. Class 38.

Staple Coat Company, New York, N. Y. Ladies' coats and suits. Serial No. 602,072, July 21. Class 39.

Starline Inc., Harvard, Ill. Barn roof ventilators. Serial No. 638,030, July 21. Class 34.

Stern Brothers, New York, N. Y. Shoe racks and hat racks. Serial No. 639,511, July 21. Class 13.

Steven Candy Kitchens, Inc., Chicago, Ill. Candies. Serial No. 626,479, July 21. Class 46.

Strauss, Levi, & Company, San Francisco, Calif. Men's, women's, and children's overalls, jackets, outer shirts, etc. Serial No. 638,273, July 21. Class 39.

Street, R. R., & Co., Inc., Chicago, Ill. Dry cleaning soap. Serial No. 643,565, July 21. Class 52.

Sun Oil Company, Philadelphia, Pa. Servicing automobiles. Serial No. 579,521, July 21. Class 103.

Suprise, Arthur, doing business as Kay Cookie Company, Memphis, Tenn. Cookies. Serial No. 532,524, July 21. Class 46.

Suprise, Arthur, doing business as Kay Cookie Company, Memphis, Tenn. Cookies. Serial No. 532,527, July 21. Class 46.

Swan-Finch Oil Corporation, New York, N. Y. Internal combustion engine lubricating oils, gear lubricants, lubricating greases, etc. Serial No. 626,738, July 21. Class 15.

Swanton, Harold R., Inc., Los Angeles, Calif. Precision miniature ball bearings. Serial No. 623,168, July 21. Class 23.

Swiss Pine Importing Co., Inc., New York, N. Y. Scenting and softening oil for bath water. Serial No. 634,009, July 21. Class 51.

Tantu Products Inc., Miami Beach, Fla. Suntan lotion. Serial No. 641,990, July 21. Class 51.

Technilogs, Philadelphia, Pa. Preparation, planning, detailing, printing, etc., of catalogues. Serial No. 630,632, July 21. Class 101.

Texas Company, The, Dover, Del., and New York, N. Y. Mineral oils used for rust-proofing purposes. Serial No. 642,378, July 21. Class 15.

The-Onlee Float Ball Valve Co.: *See*—
Richardson, Andrew J.

314 New Dorp Lane Corp., assignee: *See*—
Sedutto Company, The.

Ton-Tex Corporation, Grand Rapids, Mich., and New York, N. Y. Transmission belting. Serial No. 640,312, July 21. Class 35.



Trade-A-Shoe: *See*—
Phelan, Helen.

Underwood Corporation, New York, N. Y. Carbon paper. Serial No. 624,250, July 21. Class 11.

U. S. Marine Chemicals Co.: *See*—
Mortensen, Carl.

United States Plywood Corporation, New York, N. Y. Synthetic woods, such as, hardboards. Serial No. 632,576, July 21. Class 12.

United States Rubber Company, New York, N. Y. Inner tubes. Serial No. 638,454, July 21. Class 35.

United States Rubber Company, New York, N. Y. Pneumatic tires and inner tubes. Serial No. 638,505, July 21. Class 35.

Universal Pictures Company, Inc., New York, N. Y. Series of stereoscopic motion picture films. Serial No. 641,532, July 21. Class 26.

Untermeyer, Robbins & Co., New York, N. Y. Finger rings and bracelets. Serial No. 634,430, July 21. Class 28.

Vail, Dean, Rowayton, Conn., assignor to Dean Vail Corp., Patterson, N. J. Plastic mitt. Serial No. 610,880, July 21. Class 39.

Vail, Dean, Corp., assignee: *See*—
Vail, Dean.

Van Doren, Palmer, deceased, Easton, The Easton National Bank, executor, and J. E. Hocking, administrator, C. T. A., assignors to J. E. Hocking, Williams Township, Pa. Fresh celery. Serial No. 635,861, July 21. Class 46.

Victaulic Company of America, Union, N. J. Flexible pipe couplings. Serial No. 641,875, July 21. Class 13.

Ward-Stilson Company, The, Anderson, Ind. Dress, negligee, and work shirts. Serial No. 626,062, July 21. Class 39.

Warner & Swasey Company, The, Cleveland, Ohio. Textile machinery or apparatus. Serial No. 556,044, July 21. Class 23.

Waukee Engineering Company, Milwaukee, Wis. Flow meters used in measuring the flow of gases. Serial No. 641,362, July 21. Class 26.

Weinreich Brothers Company, New York, N. Y. Pearl necklaces, pearl brooches, pearl bracelets, etc. Serial No. 631,704, July 21. Class 28.

Western Condensing Company, San Francisco, Calif. Vitamin A and a Vitamin D supplement. Serial No. 597,924, July 21. Class 18.

Westinghouse Electric Corporation, Pittsburgh, Pa., and Bloomfield, N. J. Meat and meat products. Serial No. 587,136, July 21. Class 46.

Whitman Publishing Company, Racine, Wis. Jigsaw and picture puzzles. Serial No. 646,836, July 21. Class 22.

Whitney, Elizabeth: *See*—
Old Empire Manufacturing Chemists, Inc.

Wildroot Company Inc., Buffalo, N. Y. Cream hair dressing and wave set. Serial No. 640,315, July 21. Class 51.

Wilson Products, Inc., Reading, Pa. Ophthalmic mountings and parts thereof. Serial No. 641,109, July 21. Class 26.

Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.

Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. Serial No. 629,878, July 21. Class 19.

Wilshire Hat Co., Inc., New York, N. Y. Ladies' hats. Serial No. 638,460, July 21. Class 39.

"Wilson, K. R.": *See*—
Nash, David D.

Wilson, Kirke R.: *See*—
Nash, David D.

Wiuthrop-Stearns Inc., New York, N. Y. Anti-convulsant and anti-epileptic preparation. Serial No. 640,366, July 21. Class 18.

Youngstein, Morris E., Wilmington, Del. Women's shoes. Serial No. 630,693, July 21. Class 39.

# LIST OF REGISTRANTS OF TRADE-MARKS

AP Parts Corporation, The, Toledo, Ohio. Organic solvent liquid carriers for the dispersion of solid lubricants. 577,667, July 21; Serial No. 634,955, published May 5, 1953. Class 6.

Abbott Laboratories, North Chicago, Ill. Plasma expander. 577,697, July 21; Serial No. 637,345, published Apr. 21, 1953. Class 18.

Absorene Manufacturing Company, The, St. Louis, Mo. Wall paper cleaner. 577,694, July 21; Serial No. 637,228, published Apr. 28, 1953. Class 52.

Ace Auto Luggage Co., Inc., New York, N. Y. Soft and hard sides men's and women's luggage. 577,648, July 21; Serial No. 633,137, published Mar. 31, 1953. Class 3.

Acme Staple Company, Camden, N. J. Staples. 577,684, July 21; Serial No. 636,449, published Apr. 14, 1953. Class 13.

Addressograph Multigraph Corporation: *See*—
Multigraph Company.

Adjusto Equipment Co., Toledo, Ohio. Stools and chairs. 577,781, July 21; Serial No. 613,752. Class 32.

Adventure Toys, Palo Alto, Calif. Alphabetical toy blocks. 577,737, July 21; Serial No. 640,029, published May 5, 1953. Class 22.

Aeroplane Spinner Manufacturing Co.: *See*—
Scanlan, Elizabeth S.

Akers, Victor, doing business under the firm name and style of Victor Laundry Co., Berkeley, Calif. Single sheet paper or cardboard shirt protectors. 577,551, July 21; Serial No. 620,183, published Mar. 3, 1953. Class 37.

Aktieselskabet H. E. Gosch & Co's Tændstikfabriker og Aktietændstikfabriken Godthaab, Copenhagen, Denmark. Pencils. 577,515, July 21; Serial No. 604,761, published Mar. 3, 1953. Class 37.

Aktieselskabet Kymeia, Copenhagen, Denmark, to Darworth Incorporated, Simsbury, Conn. Chemical, curing and preserving preparations. 306,677, renewed Sept. 26, 1953. O. G. July 21. Class 6.

Alamac Knitting Mills, Inc., New York, N. Y. Baby panties, baby bloomers, creepers. 577,769, July 21; Serial No. 599,736. Class 39.

Albers Milling Company, Los Angeles, Calif. Poultry feed. 577,509, July 21; Serial No. 601,859, published May 5, 1953. Class 46.

Aldens, Inc., Chicago, Ill. Interior and exterior ready-mixed paints, enamels, and varnishes. 577,816, July 21; Serial No. 642,119. Class 16.

Allen, Albert, doing business under the name of Biocarls Company, Boston, Mass. Paperless, rocker-shaped ink blotter. 577,503, July 21; Serial No. 590,212, published Mar. 3, 1953. Class 37.

Allen-Bradley Company, Milwaukee, Wis. 577,511, July 21. Electrical switching and controlling apparatus, protective relays and parts thereof, etc., Serial No. 602,993, published July 22, 1952. Class 21; temperature responsive switches and parts thereof, Serial No. 629,141, published Jan. 6, 1953. Class 26. (Consolidated certificate. Classes 21 and 26.)

Allied Fruit & Extract Co., Inc., New York, N. Y. Jams, jellies, crushed, broken and whole fresh fruits, etc. 577,489, July 21; Serial No. 570,399, published May 5, 1953. Class 46.

Allstate Insurance Company, Chicago, Ill. Underwriting of insurance risks. 577,757, July 21; Serial No. 626,132, published Apr. 28, 1953. Class 102.

Alrose Chemical Company, Cranston, R. I. Hard synthetic wax. 577,557, July 21; Serial No. 621,116, published May 5, 1953. Class 6.

American Brass Company, The, Waterbury, Conn. Metal tubing. 577,676, July 21; Serial No. 635,805, published May 5, 1953. Class 13.

American Brewery, Inc., Baltimore, Md. Malt beverages. 307,643, renewed Oct. 31, 1953. O. G. July 21. Class 48.

American Chemical Paint Company, Ambler, Pa. Chemical preparations. 577,712, July 21; Serial No. 638,234, published May 5, 1953. Class 6.

American Chemical Paint Company, Ambler, Pa. Plant stimulant. 577,806, July 21; Serial No. 632,771. Class 10.

American Home Products Corporation, assignee: *See*—
Wyeth Incorporated.

American Hospital Supply Corporation, Evanston, Ill. Blood diluting pipettes. 577,561, July 21; Serial No. 622,191, published Mar. 10, 1953. Class 26.

American-Marietta Company, Chicago, Ill. Ready mixed paint. 577,597, July 21; Serial No. 626,598, published Apr. 28, 1953. Class 16.

American Potash & Chemical Corporation, New York, N. Y. Soda ash, potash salts, muriate of potash, etc. 306,280, renewed Sept. 12, 1953. O. G. July 21. Class 6.

American School of Metaphysics, The, Santa Monica, Calif., and West Nyack, N. Y. Instructing in the field of religion, philosophy and metaphysics. 577,750, July 21; Serial No. 622,916, published Apr. 28, 1953. Class 107.

American Steel Foundries, Chicago, Ill. Hydraulic and hydro-pneumatic presses, hydraulic accumulators, hydraulic die cushions, etc. 577,604, July 21; Serial No. 627,730, published Apr. 21, 1953. Class 23.

Arden, Elizabeth, Sales Corporation: *See*—
Lewis, Florence N.

Arkansas City Flour Mills, The: *See*—
Dixie-Portland Flour Co.

Ashear Bros., Inc., New York, N. Y. Handkerchiefs. 577,789, July 21; Serial No. 619,065. Class 39.

Attorney General of the United States, vested in: *See*—
Deutsche Gold- & Silber-Scheideanstalt.

Ault, Willard B., Chattanooga, Tenn. Liquid medicine. 577,782, July 21; Serial No. 614,127. Class 18.

Automatic Bedding Corporation, Brooklyn, N. Y. Folding beds, studio couches, mattresses, and bed springs. 577,765, July 21; Serial No. 585,417. Class 32.

Aviation Developments Limited, London, England. Fastening devices. 577,603, July 21; Serial No. 627,484, published Apr. 21, 1953. Class 13.

Avon Publishing Co., Inc., New York, N. Y. Books. 577,665, July 21; Serial No. 634,318, published May 5, 1953. Class 38.

Ball Chemical Company, Pittsburgh, Pa. Preparations for removing paint and other coatings from metal and other surfaces. 91,451, re-renewed May 6, 1953. O. G. July 21. Class 52.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 577,617, July 21; Serial No. 629,760, published Apr. 28, 1953. Class 42.

Bancroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. 577,618, July 21; Serial No. 629,763, published Apr. 28, 1953. Class 42.

Bat Bak: *See*—
Girden, Barney B.

Baxter, Don, Inc., Glendale, Calif. Parenteral solutions. 577,699, July 21; Serial No. 637,422, published Apr. 21, 1953. Class 18.

Belgard, Austin B., Chicago Ill. Segment measuring scale. 577,353, July 21; Serial No. 620,717, published Mar. 17, 1953. Class 26.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. 577,510, July 21; Serial No. 602,487, published May 5, 1953. Class 2.

Bison Thumb Tack Company, The, Waterbury, Conn. Thumb tacks. 577,567, July 21; Serial No. 622,578, published May 5, 1953. Class 13.

Blaisdell Pencil Company, Philadelphia, to Blaisdell Pencil Company, Bethayres, Pa. Lead pencils. 303,606, renewed May 30, 1953. O. G. July 21. Class 37.

Blaisdell Pencil Company, Philadelphia, to Blaisdell Pencil Company, Bethayres, Pa. Lead pencils. 305,568, renewed Aug. 22, 1953. O. G. July 21. Class 37.

Blocaris Company: *See*—
Allen, Albert.

Block & Anderson Limited, London, England. Printing, spirit duplicating, letter-opening and stamp-affixing machines. 577,599, July 21; Serial No. 626,074, published Apr. 21, 1953. Class 23.

Bocchino, Joseph J., Rockaway, N. J. Washing machines for use in washing milk and beverage bottle cases, etc. 577,523, July 21; Serial No. 608,698, published Dec. 30, 1952. Class 23.

Boonton Rubber Manufacturing Company, Boonton, to Tech-Art Plastics Company Incorporated, Morristown, N. J. Molded electrical insulators. 93,069, re-renewed Aug. 19, 1953. O. G. July 21. Class 21.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves. 577,628, July 21; Serial No. 630,699, published Apr. 28, 1953. Class 39.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 577,691, July 21; Serial No. 637,169, published Apr. 28, 1953. Class 39.

Boston Drinking Cup Company: *See*—
Boston Envelope Company.

Boston Envelope Company, doing business as Boston Drinking Cup Company, Jamaica Plain, Boston, to Boston Envelope Company, Dedham, Mass. Paper drinking cups. 305,420–1, renewed Aug. 15, 1953. O. G. July 21. Class 2.

Boston Knitting Mills, Inc., Newton, Mass. Children's pajamas, boys' union suits, and girls' union suits. 306,293, renewed Sept. 12, 1953. O. G. July 21. Class 39.

Bowey's Inc., Chicago, Ill. Chocolate flavored syrup. 305,678, renewed Aug. 22, 1953. O. G. July 21. Class 46.

Brainerd Bait Co., St. Paul, Minn. Artificial bait. 577,651, July 21; Serial No. 633,528, published May 5, 1953. Class 22.

Brandao & Companhia, Limitada, Matozinhos, Portugal. Canned, pickled, salted, smoked, and preserved fish, canned shellfish, etc. 577,562, July 21; Serial No. 622,197, published May 5, 1953. Class 46.

Braun, Walter C., to Lucky Lager Brewing Company, San Francisco, Calif. Malt beverage. 304,778, renewed July 18, 1953. O. G. July 21. Class 48.

Briggs, Betty, New York, N. Y. Women's and misses' dresses. 577,610, July 21; Serial No. 628,504, published Apr. 28, 1953. Class 39.

British Vacuum Cleaner & Engineering Co. Ltd., The, London, to The British Vacuum Cleaner & Engineering Co. Ltd., Leatherhead, England. Suction cleaning machines. 303,222, renewed May 16, 1953. O. G. July 21. Class 23.

Broadcasting Publications, Inc., Washington, D. C. Periodicals. 577,672, July 21; Serial No. 635,171, published May 5, 1953. Class 38.

Bromley, H., & Co., Limited, London, England. Perfumed soap. 91,315, re-renewed Apr. 29, 1953. O. G. July 21. Class 52.

Brownstein, Henry J., doing business as Hysan Products Company, to Hysan Products Company, Chicago, Ill. Disinfectants and insecticides. 306,672, renewed Sept. 26, 1953. O. G. July 21. Class 6.

Bubble-O-Bill Corporation, Los Angeles, Calif. Bubble pipes. 577,745, July 21; Serial No. 643,026, published May 5, 1953. Class 22.

Burlington Mills Corporation: *See*—
Mallinson, H. R., & Co., Inc.

Burnham Boiler Corporation, by Burnham Corporation, Irvington, N. Y. Heating panels. 418,944, Jan. 15, 1946. Republished July 21. Class 34.

Burnham Corporation: *See*—
Burnham Boiler Corporation.
Lord & Burnham Company.
Lord and Burnham Company.

Burroughs, Clarence M., Los Angeles, Calif. Plastic housewares—namely, plates, bowls, tumblers, etc. 577,653, July 21; Serial No. 633,605, published Apr. 28, 1953. Class 2.

Buzza-Cardozo, Los Angeles, Calif. Greeting cards. 577,707, July 21; Serial No. 638,132, published May 5, 1953. Class 38.

Byrd, H. F., Inc., Winchester, Va. Fruit products. 577,533, July 21; Serial No. 612,846, published Apr. 28, 1953. Class 46.

C. Schous Fabriker A/S, Copenhagen, Denmark. Electrical and magnetized phonograph records, recording wire and recording tape. 577,700, July 21; Serial No. 637,523, published May 5, 1953. Class 21.

Cahill, Joseph A., doing business under the name of Cahill Manufacturing Company, New York, N. Y. Can openers. 577,575, July 21; Serial No. 624,067, published Dec. 30, 1952. Class 23.

Cahill Manufacturing Company: *See*—
Cahill, Joseph A.

Cal-Bert Shippers, Inc., Los Angeles, Calif. Fresh vegetables. 577,741, July 21; Serial No. 641,604, published Apr. 28, 1953. Class 46.

Caled Products Company, Inc., Brentwood, Md. Soap and soap preparations, wet cleaning soaps and soap preparations, etc. 577,701, July 21; Serial No. 637,754, published Apr. 28, 1953. Class 52.

Calgon, Incorporated, Pittsburgh, Pa. Cleansing and detergent compound. 577,683, July 21; Serial No. 636,271, published May 5, 1953. Class 52.

California Engineering Company: *See*—
Ross, Mark.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif., to California Spray-Chemical Corporation, Richmond, Calif. Flotation sulphur. 302,398, renewed Apr. 18, 1953. O. G. July 21. Class 6.

Cameron Machine Company, Brooklyn, N. Y. Grinding and polishing machines. 577,537, July 21; Serial No. 613,302, published Dec. 9, 1952. Class 23.

Campbell, Harry T., Sons' Corp., Towson, Md. Calcite preparation. 577,813, July 21; Serial No. 640,606. Class 1.

Canfield Oil Company, Cleveland, Ohio. Lubricating oil. 577,508, July 21; Serial No. 599,417, published Apr. 28, 1953. Class 15.

Canfield Oil Company, Cleveland, Ohio. Lubricating oils and greases. 577,702, July 21; Serial No. 637,756, published Apr. 28, 1953. Class 15.

Dental Fillings Limited, London, England. Filling material for the manufacture of permanent fillings and for the construction of crowns, facings and inlays in dentistry. 577,569, July 21; Serial No. 622,814, published May 5, 1953. Class 44.

Carson, Pirie, Scott & Co., Chicago, Ill. Women's and misses' hosiery. 303,408, renewed May 23, 1953. O. G. July 21. Class 39.

Carter Carburetor Corporation, St. Louis, Mo. Packaged unit containing necessary structural repair and replacement parts for internal combustion engine carburetors, etc. 577,500, July 21; Serial No. 586,955, published Apr. 7, 1953. Class 23.

Cello-Craft Products Corporation, Flushing, N. Y. Wrapping and decorating material. 577,525, July 21; Serial No. 609,228, published Apr. 28, 1953. Class 37.

Chicago Tribune-New York News Syndicate, Inc., New York, N. Y. Series of cartoons. 577,685, July 21; Serial No. 636,688, published May 5, 1953. Class 38.

Chippewa Shoe Manufacturing Company, doing business as Kushion-Aire Shoe Company, Chippewa Falls, Wis., to Walk-Easy Foot Rest Manufacturing Company, St. Louis, Mo. Shoes. 302,586, renewed Apr. 25, 1953. O. G. July 21. Class 39.

Chromart Laboratories, Johnson City, by Stanley Zalenski, doing business as Chromart Laboratories, Endwell, N. Y. Processed color photographic prints. 442,958, June 21, 1949. Republished July 21. Class 38.

Ciba Limited: *See*—
Society of Chemical Industry in Basle.

Clark, Gushion B., Jr., Anderson, S. C. Hall pump adapted to inflate balloons and the like. 577,654, July 21; Serial No. 633,713, published Apr. 7, 1953. Class 23.

Clemtex Mfg. Co., Inc., Boston, Mass. Binding tape. 577,571, July 21; Serial No. 623,237, published Mar. 24, 1953. Class 40.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 577,695, July 21; Serial No. 637,267, published Apr. 28, 1953. Class 52.

Colorado Portland Cement Company, The, by Ideal Cement Company, Denver, Colo. Portland cement and lime. 102,559, Feb. 16, 1915. Republished July 21. Class 12.

Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Chemical additives. 577,641, July 21; Serial No. 631,722, published May 5, 1953. Class 6.

Commonwealth Engineering Corporation, Dayton, Ohio. Lacquers, paint in ready mixed form, paint enamels, etc. 367,075, May 9, 1939. Republished July 21. Class 16.



Comptoir des Textiles Artificiels, Paris, France. Textile fabrics. 577,588, July 21; Serial No. 625,523, published Apr. 28, 1953. Class 42.

Continental Scale Corporation, Chicago, Ill. Weighing scales. 577,612, July 21; Serial No. 628,997, published Mar. 17, 1953. Class 26.

Copps Co., The, Stevens Point, Wis., by UBC Distributors, Incorporated, Chicago, Ill. Canned vegetables, prepared mustard, coffee, etc. 167,092, Apr. 24, 1923. Republished July 21. Class 46.

Consolidated Products Company, Danville, Ill. Poultry feed. 577,550, July 21; Serial No. 618,845, published May 5, 1953. Class 46.

Copps Company, The, doing business as The Wisconsin Coffee Company, Stevens Point, Wis., by UBC Distributors, Incorporated, Chicago, Ill. Food flavoring extracts, spices, molasses, etc. 194,603, Feb. 3, 1925. Republished July 21. Class 46.

Coronet Handbags, Inc., New York, N. Y. Ladies' handbags and pocket books. 433,987, Nov. 4, 1947. Republished July 21. Class 3.

Cortland Line Company, Inc., Cortland, N. Y. Fishing lines. 577,744, July 21; Serial No. 642,732, published May 5, 1953. Class 22.

Crampton Farley Mfg. Co., Kansas City, Mo. Floor drains. 577,686, July 21; Serial No. 636,776, published Apr. 28, 1953. Class 13.

Crawford, A., & A., Limited, Leith, Scotland. Scotch whiskey. 577,807, July 21; Serial No. 633,144. Class 49.

Crest Electric Mfg. Co., Chicago, Ill. Voltage reducer insertable in electric lamp sockets. 577,770, July 21; Serial No. 599,931. Class 21.

Crystal, David, Inc., New York, N. Y. Textile fabrics. 577,703, July 21; Serial No. 637,760, published Apr. 28, 1953. Class 42.

Cube Steak Machine Co., Needham Heights, Mass. Meat. 574,785, May 19, 1953. Corrected. O. G. July 21. Class 46.

Cutter Cravat, Inc., Chicago, Ill. Cravats, necktles, mufflers, etc. 577,780, July 21; Serial No. 613,164. Class 39.

Dache, Lilly, Inc., New York, N. Y. Eyeglasses, sunglasses and sun visors. 577,586, July 21; Serial No. 625,197, published Apr. 28, 1953. Class 26.

Darworth Incorporated: *See*—
Aktieselskabet Kymeia.

Davis Fishing Tackle Co.: *See*—
Davis, Lester M.

Davis, Lester M., doing business as Davis Fishing Tackle Co., Tacoma, Wash. Fishing tackle. 577,739, July 21; Serial No. 640,674, published May 5, 1953. Class 22.

Davis, R. B., Company, Hoboken, N. J. Baking powder and baking soda. 304,098, renewed June 20, 1953. O. G. July 21. Class 46.

De Angelo, Thomas, doing business as Dean Publications, Brooklyn, N. Y. Comic books. 577,714, July 21; Serial No. 638,286, published Apr. 28, 1953. Class 38.

Dean Publications: *See*—
De Angelo, Thomas.

De Erve H. de Jong, N. V., Wormerveer, Netherlands. Chocolate candies. 577,534, July 21; Serial No. 612,851, published May 5, 1953. Class 46.

Dennis & Huppert Inc., New York, N. Y. Vermouth. 577,791, July 21; Serial No. 622,813. Class 47.

Denver Chemical Manufacturing Company, The, New York, N. Y. Hair and scalp shampoo. 577,646, July 21; Serial No. 632,877, published Apr. 28, 1953. Class 52.

De Soto Paint & Varnish Co., Memphis, Tenn. Paint products, namely, noninflammable paint and varnish remover. 577,516, July 21; Serial No. 605,638, published Apr. 28, 1953. Class 52.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in Attorney General of the United States, Washington, D. C. Wire ropes and cables. 301,121, renewed Feb. 21, 1953. O. G. July 21. Class 7.

Dladem, Inc., Leominster, Mass. Hair retainers or combs. 577,492, July 21; Serial No. 580,928, published Mar. 24, 1953. Class 40.

Diamond Calk Horseshoe Co., Duluth, Minn. Pitching shoes. 577,668–9, July 21; Serial Nos. 634,906–7, published May 5, 1953. Class 22.

Dick, A. B., Company, Niles, Ill. Lettering guides and for materials used in lithographic printing. 577,529, July 21; Serial No. 610,423, published Feb. 17, 1953. Class 37.

Diet Foods, Inc., San Francisco, Calif. Dietary food products. 577,615, July 21; Serial No. 629,655, published May 5, 1953. Class 46.

Distillers Corporation Limited, Montreal, Quebec, Canada, to Seagram-Distillers Corporation, New York, N. Y. Potable spirits, whiskey, and liquors. 304,745, renewed July 18, 1953. O. G. July 21. Class 49.

Dixie-Portland Flour Co., doing business as The Arkansas City Flour Mills, Memphis, Tenn. Plain and self rising wheat flour, poultry feeds, dairy feeds, etc. 577,487, July 21; Serial No. 565,175, published Apr. 28, 1953. Class 46.

Donel Foundations, Inc., New York, N. Y. Women's foundation garments. 577,764, July 21; Serial No. 582,128. Class 39.

Dow Chemical Company, The, Midland, Mich. p-Chlorophenyl p-Chlorobenzenesulfonate. 577,740, July 21; Serial No. 641,279, published May 5, 1953. Class 6.

Dowd, Charles, Box Co., Inc., Worcester, Mass. Flexible multiple layer wrapping sheet. 577,552, July 21; Serial No. 620,200, published Feb. 17, 1953. Class 37.

Draper Company, Portland, Maine, and Hopedale, Mass., to Draper Corporation, Hopedale, Mass. Periodical or magazine. 93,525, re-renewed Sept. 23, 1953. O. G. July 21. Class 38.

Draper Corporation: *See*—
Draper Company.

Dupuis Sons, & Co., Inc., New York, N. Y. Weekly periodical. 577,877, July 21; Serial No. 635,821, published May 5, 1953. Class 38.

Duro-Test Corporation, North Bergen, N. J. Fluorescent lighting fixture and fluorescent sign lamps. 577,595, July 21; Serial No. 626,075, published May 5, 1953. Class 21.

Eastman Kodak Company, Rochester, N. Y., and Flemington, N. J. Copy paper. 577,661, July 21; Serial No. 634,189, published Mar. 3, 1953. Class 37.

Eaton Chemical and Dyestuff Company, Detroit, Mich. Non-cellulosic chemical dehydrating agent. 577,560, July 21; Serial No. 621,551, published Dec. 23, 1952. Class 6.

Economics Laboratory, Inc., St. Paul, Minn. Dishwashing compound. 577,526, July 21; Serial No. 609,542, published May 5, 1953. Class 52.

Edelman, John, & Sons, New York, N. Y. Ladies' coats and jackets. 305,600, renewed Aug. 22, 1953. O. G. July 21. Class 39.

Editors Syndicate: *See*—
Wishengrad, Hyman.

El Chico Cafe, Dallas, Tex. Canned goods. 577,690, July 21; Serial No. 637,099, published May 5, 1953. Class 46.

Electric Steel Foundry, Portland, Oreg. Butt chains. 577,775, July 21; Serial No. 609,338. Class 13.

Englishtown Cutlery, Ltd., New York, N. Y. Flatware. 577,483, July 21; Serial No. 515,299, published Apr. 21, 1953. Class 23.

Enthone, Incorporated, New Haven, Conn. Composition for cleaning and etching aluminum. 577,709, July 21; Serial No. 638,196, published May 5, 1953. Class 52.

Esquire, Inc., Chicago, Ill. Calendars. 577,592, July 21; Serial No. 625,726, published May 5, 1953. Class 38.

Esquire, Inc., Chicago, Ill. Calendars and a section or feature in a periodical publication. 577,593, July 21; Serial No. 625,727, published May 5, 1953. Class 38.

Eugenics Publishing Company, Incorporated, doing business under the trade name Liberty Books, New York, N. Y. Books. 577,572, July 21; Serial No. 623,345, published Apr. 28, 1953. Class 38.

Eureka Williams Corporation: *See*—
Williams Oil-O-Matic Heating Corporation.

European Coast Chemical House: *See*—
Wong, Howard.

Extraction & Chemical Company Inc., New York, N. Y. Toothpaste. 577,498, July 21; Serial No. 585,920, published Apr. 28, 1953. Class 51.

F. Pannertz Schmirgelwerk Kommanditgesellschaft (Inc.), Hannoversch-Munden, Germany. Coated abrasives. 577,594, July 21; Serial No. 625,770, published May 5, 1953. Class 4.

FR Corporation, The, New York, N. Y. Combined projector and viewer. 577,611, July 21; Serial No. 628,852, published Mar. 17, 1953. Class 26.

Faber, A. W., Inc.: *See*—
Faber-Castell, A. W., Pencil Company, Incorporated.

Faber-Castell, A. W., Pencil Company, Incorporated, by change of name from A. W. Faber, Inc., Newark, N. J. Mechanical pencils. 577,482, July 21; Serial No. 504,346, published May 5, 1953. Class 37.

Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfurt am Main Hoechst, Germany. Chemical products. 577,568, July 21; Serial No. 622,711, published May 5, 1953. Class 6.

Farley & Loetscher Manufacturing Company, Dubuque, Iowa. Doors, structural panels, panel stock, moldings, etc. 302,732, renewed Apr. 25, 1953. O. G. July 21. Class 12.

Federal Liquors Ltd., Boston, Mass., by mesne assignments, from William Zakon & Sons, doing business as C. H. Graves & Sons Co. Manhattan and martini cocktails. 577,763, July 21; Serial No. 575,510. Class 49.

Feigenberg, Myron M., doing business as Loomis Industries, Berkeley, Calif. Universal drafting instrument. 577,670, July 21; Serial No. 634,975, published Apr. 28, 1953. Class 26.

Fidalgo Island Packing Co., Anacortes, to Fidalgo Island Packing Company, Seattle, Wash. Canned salmon. 93,435, re-renewed Sept. 16, 1953. O. G. July 21. Class 46.

Fidalgo Island Packing Company: *See*—
Fidalgo Island Packing Co.

Fine Art Pillow & Specialties Co., New York, N. Y. Heat sealed vinyl plastic sheet material. 577,795, July 21; Serial No. 625,588. Class 42.

Fischer & Porter Company, Hatboro, Pa. Fluid flow indicating and recording instruments, flow controllers, and totalizers or integrators. 577,602, July 21; Serial No. 634,322, published Mar. 10, 1953. Class 26.

Fisherman Press, Inc., Oxford, Ohio. Books. 577,655, July 21; Serial No. 633,761, published Apr. 28, 1953. Class 38.

Fish-Schurman Corporation, New Rochelle, N. Y. Machine tool attachments. 577,619, July 21; Serial No. 629,850, published Apr. 14, 1953. Class 23.

Flexidraw Company, Dearborn, Mich. Die lubricants, cutting lubricants, mold lubricants, etc. 577,573, July 21; Serial No. 623,456, published Apr. 28, 1953. Class 15.

Flo-Mow Co.: *See*—
Kurzweil, Floyd W.

Florence Beauty Parlor: *See*—
Hogberg, Tor.

Folger, J. A., & Company, Kansas City, Mo. Coffee. 93,631, re-renewed Oct. 7, 1953. O. G. July 21. Class 46.

Foodcraft Products: *See*—
United Buyers Corporation.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 577,726, July 21; Serial No. 639,219, published Apr. 28, 1953. Class 42.

French Fabrics Co., New York, N. Y. Textile fabrics. 577,722, July 21; Serial No. 638,843, published Apr. 28, 1953. Class 42.

Frey-Yenkin Paint Company Columbus, Ohio. Paint products. 577,609, July 21; Serial No. 628,529, published Apr. 28, 1953. Class 16.

Gallo, E. & J., Winery, Modesto, Calif. Wines. 444,756, Mar. 24, 1953. Republished July 21. Class 47.

Garod Radio Corporation: *See*—
Grigsby-Grunow Company.

Gebruder Junghans Aktiengesellschaft: *See*—
Hamburg-Amerikanische Uhrenfabrik.

General Electric Company, assignee: *See*—
Monowatt Incorporated.

General Paint & Varnish Company Inc., Chicago, Ill. Ready-mixed paint, varnishes, stains, etc. 318,931, Nov. 6, 1934. Republished July 21. Class 16.

Girden, Barney B., doing business as Bat Bak, New York, N. Y. Collapsible table-tennis game apparatus. 577,811, July 21; Serial No. 640,156. Class 22.

Giurlani, A., & Bro., San Francisco, Calif. Whiskey. 386,969, Apr. 29, 1941. Republished July 21. Class 49.

Giurlani, A., & Bro., San Francisco, Calif. Olive oil, hearts of artichokes, and fillet of anchovies. 390,267, Sept. 16, 1941. Republished July 21. Class 46.

Giurlani, A., & Brother, San Francisco, Calif. Cheese. 119,438, Nov. 20, 1917. Republished July 21. Class 46.

Globe Automatic Sprinkler Company, to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa. Automatic sprinklers. 364,990, renewed July 25, 1953. O. G. July 21. Class 13.

Globe Automatic Sprinkler Company, to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa. Pressure-operated automatic electric fire alarm systems, etc. 305,863, renewed Aug. 29, 1953. O. G. July 21. Class 21.

Globe Automatic Sprinkler Company of Pennsylvania: *See*—
Globe Automatic Sprinkler Company.

Goldfarb, Samuel J., by Perfection Frocks, Inc., New York, N. Y. Ladies' and children's dresses and coats. 388,766, July 8, 1941. Republished July 21. Class 39.

Gottesman Bros. Co.: *See*—
Gottesman, Samuel.

Gottesman, Samuel, doing business as Gottesman Bros. Co., New York, N. Y. Window curtains. 577,727, July 21; Serial No. 639,272, published Apr. 28, 1953. Class 42.

Gourielli, Inc., New York, N. Y. Lipstick and lipstick cases containing lipstick. 577,520, July 21; Serial No. 607,498, published Apr. 21, 1953. Class 51.

Graves, C. H., & Sons Co.: *See*—
Federal Liquors Ltd.

Greenfield Tap and Die Corporation, Greenfield, Mass. Screw-cutting dies, taps, etc. 147,320, Oct. 11, 1921. Amended. O. G. July 21. Class 23.

Greenhut Fabrics, Inc., New York, N. Y. Decorative, upholstery, and clothing fabrics. 577,589-90, July 21; Serial Nos. 625,592-3, published Apr. 28, 1953. Class 42.

Grigsby-Grunow Company, Chicago, Ill., to Garod Radio Corporation, New York, N. Y. Electric motors and parts thereof. 305,937, renewed Aug. 29, 1953. O. G. July 21. Class 21.

Gummed Products Company, The, Troy, Ohio. Water remoistenable adhesive tape. 577,682, July 21; Serial No. 636,171, published Apr. 28, 1953. Class 5.

Hamburg-Amerikanische Uhrenfabrik, to Gebruder Junghans Aktiengesellschaft, Schramberg, Germany. Clocks and parts thereof. 92,551, re-renewed July 15, 1953. O. G. July 21. Class 27.

Hamilton Textile Mills, Inc., New York, N. Y., by change of name from Hillcrest Hosiery Mills, Inc. Piece goods. 577,591, July 21; Serial No. 625,601, published Feb. 24, 1953. Class 42.

Hampshire Paper Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. High-grade papers. 59,475, Jan. 8, 1907. Republished July 21. Class 37.

Hampshire Paper Company, South Hadley Falls, by Byron Weston Company, Dalton, Mass. Writing and printing paper. 301,385, Feb. 28, 1933. Republished July 21. Class 37.

Hanes, P. H., Knitting Company, Winston-Salem, N. C. Wearing apparel. 306,153, renewed Sept. 12, 1953. O. G. July 21. Class 39.

Hanes, P. H., Knitting Company, Winston-Salem, N. C. Wearing apparel. 306,618, renewed Sept. 26, 1953. O. G. July 21. Class 39.

Hangers for Pants, Inc.: *See*—
Sur-Grip, Inc.

Hannifin Corporation, Chicago, Ill. Air control valves, hydraulic valves, pilot operated valves, etc. 577,649, July 21; Serial No. 633,360, published Apr. 21, 1953. Class 13.

Harjaz Products Corp., New York, N. Y. Garment bags. 577,587, July 21; Serial No. 625,270, published Apr. 28, 1953. Class 2.

Hart, Schaffner & Marx, Chicago, Ill. Men's and boys' suits, coats, overcoats, etc. 396,969, Aug. 11, 1942. Republished July 21. Class 39.

Haynes Manufacturing Co., The, Cleveland, Ohio. Water-soluble soap lubricant. 577,800, July 21; Serial No. 629,853. Class 15.

Hayward Woolen Co.: *See*—
Murray, Leo J.

Hearst Publishing Company, Inc., Los Angeles, Calif. Daily newspaper. 577,674, July 21; Serial No. 635,224, published Apr. 28, 1953. Class 38.

Heli-Coil Corporation, Danbury, Conn. Magazine. 577,704, July 21; Serial No. 637,823, published May 5, 1953. Class 38.

Higley Chemical Company, Dubuque, Iowa. Floor varnish. 316,638, Aug. 28, 1934. Republished July 21. Class 16.

Hilger, Adam, Limited, to Hilger & Watts Limited, London, England. Polarimeters, spectroscopes, and colorimeters. 303,120, renewed May 9, 1953. O. G. July 21. Class 26.

Hilger & Watts Limited: *See*—
Hilger, Adam, Limited.

Hillcrest Hosiery Mills, Inc.: *See*—
Hamilton Textile Mills, Inc.

Hoffman Lion Mills Company, Incorporated, Fall River, Mass. Kites. 577,605, July 21; Serial No. 627,880, published May 5, 1953. Class 22.

Hogberg, Tor, doing business under the name of Florence Beauty Parlor, Norwood, N. J. Bob pins. 577,790, July 21; Serial No. 621,405. Class 40.

Holland District Asparagus Growers Association, Clarksburg, by Lambert Marketing Co., Sacramento, Calif. Fresh vegetables. 333,117, Mar. 10, 1936. Republished July 21. Class 46.

Hollander, A., & Son, Inc., Newark, N. J. Fur skins. 300,503, renewed Jan. 24, 1953. O. G. July 21. Class 1.

Hollywood Disappearing Attic Stair Co., Dallas, Tex. Folding stairways. 577,793, July 21; Serial No. 625,104. Class 12.

Holtzinger, C. M., Fruit Co., by C. M. Holtzinger Fruit Co., Inc., Yakima, Wash. Fresh apples. 213,944, June 8, 1926. Republished July 21. Class 46.

Holtzinger, C. M., Fruit Co., Inc.: *See*—
Holtzinger, C. M., Fruit Co.

Hull Dye Works, Derby, Conn. Dyeing and finishing fabrics. 577,753, July 21; Serial No. 632,939, published Apr. 28, 1953. Class 106.

Hunt Foods, Inc.: *See*—
Orange County Canners, Inc.

Huntington Laboratories, Inc., Huntington, Ind. Periodic publication. 577,680, July 21; Serial No. 636,014, published May 5, 1953. Class 38.

Hurst, Clay E., doing business as Hurst Company, Chincoteague, Va. Undulatory merry-go-round. 577,733, July 21; Serial No. 639,567, published May 5, 1953. Class 22.

Hurst Company: *See*—
Hurst, Clay E.

Hurst Industries, Inc., San Jose, Calif. Power sprayers, weed control sprayers, crop and pest control sprayers, etc. 577,521, July 21; Serial No. 608,068, published Dec. 30, 1952. Class 23.

Hy-R-Speed, Incorporated, Los Angeles, Calif. Grinding mills and parts thereof. 577,486, July 21; Serial No. 549,805, published Apr. 14, 1953. Class 23.

Hysan Products Company: *See*—
Brownstein, Henry J.

I. C. Publishing Co., Inc., New York, N. Y. Comic cartoon magazines. 577,548, July 21; Serial No. 618,795, published Apr. 28, 1953. Class 38.

Ideal Cement Company: *See*—
Colorado Portland Cement Company, The.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Air tools, air- and gas-lift pumps, core drills, etc. 577,554, July 21; Serial No. 620,731, published Apr. 7, 1953. Class 23.

International Milling Company: *See*—
Wabasha Roller Mill Company.

International Standard Trading Corporation, New York, N. Y. Informational leaflets and descriptive brochures. 577,576, July 21; Serial No. 624,087, published Apr. 28, 1953. Class 38.

Irish Linen Guild, The, Belfast, Northern Ireland. Irish linen piece goods, table cloths, napkins, etc. 577,817, July 21; Serial No. 615,556. Class 42.

Irrigation Engineering & Mfg. Co., Los Angeles, Calif. Garden nozzles and sprinklers, lath house sprinklers, orchard sprinklers, etc. 577,638, July 21; Serial No. 631,623, published Apr. 28, 1953. Class 13.



Jack, Isabelle B., doing business as Rainbow Rembrandts Studios, Fallbrook, Calif. Sets of color charts. 577,679, July 21; Serial No. 635,968, published May 5, 1953. Class 38.

Jacobs, Max M., doing business as Midnight Attractions, Cleveland, Ohio. Entertainment services. 577,754, July 21; Serial No. 634,471, published May 5, 1953. Class 107.

Jaeger Machine Company, The, Columbus, Ohio. Centrifugal self-priming pumps. 304,000, renewed June 13, 1953. O. G. July 21. Class 23.

Jefferson Co., Inc., The, Miami, Fla. Television receiving sets. 577,798, July 21; Serial No. 628,109. Class 21.

Johns-Manville Corporation, New York, N. Y. Flax packing. 303,883, renewed June 13, 1953. O. G. July 21. Class 35.

Johns-Manville Corporation, New York, N. Y. Floor sweeping compound. 577,522, July 21; Serial No. 608,315, published Apr. 28, 1953. Class 52.

Johnson, Gordon, Company, Kansas City, Mo. Poultry picking machines and parts thereof, poultry washing machines, etc. 577,626, July 21; Serial No. 630,537, published Dec. 30, 1952. Class 23.

Johnston, Everett, doing business as King Salid Avocado Co., Vista and Fallbrook, Calif. Fresh avocados. 577,580, July 21; Serial No. 624,137, published May 5, 1953. Class 46.

Jose Lopez de Carrizosa y Martel Marques del Merito, Jerez-de-la-Frontera, Spain. Wines. 304,257, renewed June 27, 1953. O. G. July 21. Class 47.

Jubilee Manufacturing Company, doing business as Kattle Kaller Division, Omaha, Nebr. Electrical horns. 577,801, July 21; Serial No. 629,898. Class 21.

Kalbfell Laboratories, Inc., San Diego, Calif. Logarithmic attenuators. 577,671, July 21; Serial No. 635,041, published May 5, 1953. Class 21.

Kandell & Marcus, Inc., New York, N. Y. Clasps utilized as substitutes for buttons. 577,496, July 21; Serial No. 585,172, published Apr. 14, 1953. Class 40.

Kann, S., Sons, Co., The, Washington, D. C. Cleansing tissue and dual purpose tissue. 577,624, July 21; Serial No. 630,273, published Mar. 3, 1953. Class 37.

Kappa Sigma Fraternity, Carmel, Calif. Organizing of chapters in a national collegiate fraternity and maintaining membership therein. 577,760, July 21; Serial No. 620,605, published Apr. 28, 1953. Class 100.

Kattle Kaller Division: *See*—
Jubilee Manufacturing Company.

Kaufmann Products Co., San Jose, Calif. Chopped alfalfa with molasses. 577,506, July 21; Serial No. 597,961, published Apr. 21, 1953. Class 46.

Kayser, Julius, & Co.: *See*—
Vanity Fair Silk Mills.

Keith, Robert M., Jr., Laurel, Miss. Coil and mountings for use in lieu of or in conjunction with radio antenna. 577,574, July 21; Serial No. 623,549, published May 5, 1953. Class 21.

Kemp, E. F., Corp., Somerville, Mass. Salted and unsalted nuts and peanut butter spread. 577,734, July 21; Serial No. 639,936, published May 5, 1953. Class 46.

Kemp, E. F., Corp., Somerville, Mass. Salted and unsalted nuts. 577,735, July 21; Serial No. 639,937, published May 5, 1953. Class 46.

Kemp, E. F., Corp., Somerville, Mass. Salted and unsalted nuts and peanut butter spread. 577,736, July 21; Serial No. 639,938, published May 5, 1953. Class 46.

Keyes Fibre Company, Portland and Waterville, Maine. Molded pulp packing trays. 577,527, July 21; Serial No. 610,176, published May 5, 1953. Class 2.

Kiesler, Jos. F., Company, Chicago, Ill. Clam shell buckets. 577,598, July 21; Serial No. 626,888, published Apr. 21, 1953. Class 23.

Kindle-Kwik, Chicago, Ill. Combustible scented material used for starting fires, etc. 577,808, July 21; Serial No. 634,373. Class 6.

King Salad Avocado Co.: *See*—
Johnston, Everett.

Kings County Packing Company, Ltd.: *See*—
Kings Food Products.

Kings Food Products, San Francisco, Calif., assignee of Kings County Packing Company, Ltd. Canned fruit. 577,784, July 21; Serial No. 617,405. Class 46.

Kingston Products Corporation, Kokomo, Ind. Electric vacuum cleaners. 577,804, July 21; Serial No. 630,601. Class 21.

Klee, Fred., Chicago, Ill. Enzyme products. 577,549, July 21; Serial No. 618,803, published Apr. 28, 1953. Class 18.

Kleinert, I. B., Rubber Company, New York, N. Y. Girdle. 577,788, July 21; Serial No. 618,856. Class 39.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Closures and fasteners for wearing apparel, crochet hooks and crochet needles, etc. 577,530, July 21; Serial No. 610,565, published Mar. 24, 1953. Class 40.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Closures and fasteners for wearing apparel, crochet hooks and crochet needles, etc. 577,531, July 21; Serial No. 610,566, published Apr. 14, 1953. Class 40.

Koh-I-Noor, United Metalware Factories, National Corporation: *See*—
Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik.

Kratt, Wm., Co., Union, N. J. Harmonicas. 577,797, July 21; Serial No. 626,945. Class 36.

Kromez Corporation, Cleveland, Ohio. Lazy Susan relish dish, lazy Susan, etc. 577,600, July 21; Serial No. 626,995, published May 5, 1953. Class 13.

Kurzweil, Floyd W., doing business as Flo-Mow Co., Kansas City, Mo. Power-driven lawn mowers. 577,563, July 21; Serial No. 622,442, published Dec. 30, 1952. Class 23.

Kushion-Aire Shoe Company: *See*—
Chippewa Shoe Manufacturing Company.

Laboratory for Electronics, Inc., Boston, Mass. Oscilloscopes, magnetometers and signal generators. 577,652, July 21; Serial No. 633,543, published Mar. 10, 1953. Class 26.

Lambert Marketing Co.: *See*—
Holland District Asparagus Growers Association.

Landsberg, Kent H., doing business under the name of Kent H. Landsberg Company, Los Angeles, Calif. Paper board, butcher paper, corrugated paper rolls, etc. 577,539, July 21; Serial No. 614,444, published Feb. 17, 1953. Class 37.

Landsberg, Kent H., Company: *See*—
Landsberg, Kent H.

Larrsons, Carl, Slakteri AB, Stockholm, Sweden. Canned ham. 577,812, July 21; Serial No. 640,248. Class 46.

Laskin Brothers, Inc., Philadelphia, Pa. Women's, misses' and girls' pajamas. 577,810, July 21; Serial No. 638,088. Class 39.

Laverne: *See*—
Pociask, Jeanne L.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Bros. Kiki Maid Koats Inc.

Lever Brothers Company, Cambridge, Mass., to Lever Brothers Company, New York, N. Y. Vegetable shortening. 306,900, renewed Oct. 3, 1953. O. G. July 21. Class 46.

Lewis & Clark, Inc., Chicago, Ill. Entertainment service. 577,752, July 21; Serial No. 631,743, published Apr. 28, 1953. Class 107.

Lewis, Florence N., by Elizabeth Arden Sales Corporation, New York, N. Y. Eye lotion. 123,463, Nov. 12, 1918. Republished July 21. Class 51.

Lewis, Florence N., by Elizabeth Arden Sales Corporation, New York, N. Y. Talcum powder. 125,461, May 20, 1919. Republished July 21. Class 51.

Lewis, Florence N., by Elizabeth Arden Sales Corporation, New York, N. Y. Face powder. 130,201, Apr. 13, 1920. Republished July 21. Class 51.

Liberty Books: *See*—
Eugenics Publishing Company, Incorporated.

Lind, Farris C., Boise, Idaho. Gasoline filling station services. 577,738, July 21; Serial No. 630,420, published Apr. 28, 1953. Class 103.

Linen Thread Co., Inc., The, Paterson, N. J. Fish netting. 577,613, July 21; Serial No. 629,305, published Apr. 28, 1953. Class 42.

Linton Publishing Company, Reno, Nev. Books. 577,794, July 21; Serial No. 625,111. Class 38.

Lloyd Brothers, Inc.: *See*—
Lloyd Brothers, Pharmacists, Inc.

Lloyd Brothers, Pharmacists, Inc., Cincinnati, Ohio, now by change of name Lloyd Brothers, Inc. Preparation for use in cardiotherapy. 577,519, July 21; Serial No. 607,336, published June 3, 1952. Class 18.

Loomis Industries: *See*—
Felgenberg, Myron M.

Lord & Burnham Company, Des Plaines, Ill., by Burnham Corporation, Irvington, N. Y. Portable or knockdown buildings. 376,487, Mar. 26, 1940. Republished July 21. Class 12.

Lord and Burnham Company, Irvington-on-Hudson, by Burnham Corporation, Irvington, N. Y. Greenhouse-ventilating apparatus. 206,248, Nov. 24, 1925. Republished July 21. Class 34.

Louise Frocks, Detroit, Mich. Girls' confirmation and party dresses, and christening sets. 577,713, July 21; Serial No. 638,264, published Apr. 28, 1953. Class 39.

Luckett, Thomas D., Clarksville, Tenn., to Luckett-Wake Tobacco Co., Inc., Louisville, Ky. Leaf-tobacco. 40,211, re-renewed Apr. 28, 1953. O. G. July 21. Class 17.

Luckett-Wake Tobacco Co., Inc.: *See*—
Luckett, Thomas D.

Lucky Lager Brewing Company: *See*—
Braun, Walter C.

Lyon Metal Products, Incorporated, Aurora, Ill. Empty tool chests, hopper bins, tool boxes, etc. 577,517, July 21; Serial No. 605,909, published Mar. 24, 1953. Class 2.

Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken, to Rademaker's Koninklijke Cacao- en Chocoladefabrieken N. V., The Hague, Netherlands. Coffee flavored candies. 304,228, renewed June 27, 1953. O. G. July 21. Class 46.

Macfadden Publications, Inc., New York, N. Y. Monthly magazine. 577,719, July 21; Serial No. 638,491, published Apr. 28, 1953. Class 38.

Magic Bros., Incorporated, Chicago, Ill. Lubricating oils and greases. 577,607, July 21; Serial No. 628,113, published Apr. 28, 1953. Class 15.

Maher, A., & Son, St. Louis, Mo. Mechanic grease cleaner. 577,681, July 21; Serial No. 636,051, published Apr. 28, 1953. Class 52.

Mallinson, H. R., & Co., Inc., New York, N. Y., to Burlington Mills Corporation, Greensboro, N. C. Silk piece goods. 306,753, renewed Sept. 26, 1953. O. G. July 21. Class 42.

Mara Laboratories, Inc., The, Harrison, N. J. Medicinal preparation. 577,678, July 21; Serial No. 635,839, published Apr. 28, 1953. Class 18.

Marks, Walter K., to Walter K. Marks, Inc., New York, N. Y. Ladies' hats. 305,550, renewed Aug. 22, 1953. O. G. July 21. Class 39.

Marks, Walter K., Inc.: *See*—
Marks, Walter K.

Marshall-Wells Company, Duluth, Minn. Enamels and paints. 577,666, July 21; Serial No. 634,648, published Apr. 28, 1953. Class 16.

Maschinenfabrik Oerlikon, Zurich, Switzerland. Electric generators and motors, transformers, induction regulators, etc. 577,787, July 21; Serial No. 618,750. Class 21.

Master Rule Manufacturing Co., Inc., Middletown, N. Y. Graduated steel measuring tapes. 577,657, July 21; Serial No. 633,040, published Mar. 10, 1953. Class 26.

McCall Corporation, New York, N. Y. Engraving, etching and preparing by related processes printing plates for others, etc. 577,749, July 21; Serial No. 615,840, published May 5, 1953. Class 106.

McKesson & Robbins, Incorporated, New York, N. Y. Insect repellent. 577,706, July 21; Serial No. 638,007, published May 5, 1953. Class 6.

Mem Company, Inc., New York, N. Y. Soap. 577,584, July 21; Serial No. 624,554, published Apr. 28, 1953. Class 52.

Meredith Publishing Company, Des Moines, Iowa. Magazine feature. 577,528, July 21; Serial No. 610,221, published May 5, 1953. Class 38.

Mettler, E., Fabrik für Analysenwaagen: *See*—
Mettler, Erhard.

Mettler, Erhard, trading as E. Mettler, Fabrik für Analysenwaagen, Zurich, Switzerland. Balances. 577,644, July 21; Serial No. 632,125, published Apr. 28, 1953. Class 26.

Mettler Machine Tool, Inc., New Haven, Conn. Automatic wire straightening, feeding, and cutting machines and wire reels. 577,635–6, July 21; Serial Nos. 631,246–7, published Apr. 21, 1953. Class 23.

Meyer Chemical Company, Detroit, Mich. Vitamin E capsule. 577,577, July 21; Serial No. 624,094, published Apr. 28, 1953. Class 18.

Meyer Chemical Company, Detroit, Mich. Sedative elixir. 577,578, July 21; Serial No. 624,095, published Apr. 28, 1953. Class 18.

Meyer Chemical Company, Detroit, Mich. Antacid tablets. 577,579, July 21; Serial No. 624,097, published Apr. 28, 1953. Class 18.

Michie, Andrew Y., & Sons Company, Philadelphia, Pa. Hair cloth interlining. 577,728, July 21; Serial No. 639,283, published Apr. 28, 1953. Class 42.

Mid-America Research Corporation, Wheatland, Pa. Motorized four wheel vehicles. 577,720, July 21; Serial No. 638,545, published May 5, 1953. Class 19.

Middishade Company, Inc., The, Philadelphia, Pa. Apparel guide book, stock book, and swatch book of clothing fashions. 577,566, July 21; Serial No. 622,549, published May 5, 1953. Class 38.

Midnight Attractions: *See*—
Jacobs, Max M.

Mid-State Wood Products Corporation, Rockford, Ill. Sewing machines, electric sewing machines, and parts thereof. 577,620, July 21; Serial No. 630,090, published Dec. 16, 1952. Class 23.

Miller, Richard C., Landsdowne, Pa. Scoring game. 577,616, July 21; Serial No. 629,679, published May 5, 1953. Class 22.

Mills, Mildred T., doing business under the name and style of The Mildred Teal Mills Greater Artist Series, Wenatchee, Wash. Providing entertainment services. 577,751, July 21; Serial No. 632,094, published May 5, 1953. Class 107.

Mills, Mildred Teal, Greater Artist Series, The: *See*—
Mills, Mildred T.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Coated abrasives. 577,689, July 21; Serial No. 637,067, published Apr. 28, 1953. Class 4.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Sound-recording tape. 577,696, July 21; Serial No. 637,319, published May 5, 1953. Class 21.

Minwax Company, Inc., New York, N. Y. Stain finishes, stainwax wood finishes, penetrating wood sealers, etc. 577,547, July 21; Serial No. 618,464, published Apr. 28, 1953. Class 16.

Mishawaka Rubber and Woolen Manufacturing Company: *See*—
Mishawaka Woolen Manufacturing Co.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Footwear. 577,766, July 21; Serial No. 589,797. Class 39.

Mishawaka Woolen Manufacturing Co., to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Rubber boots and shoes, etc. 91,362, renewed Apr. 29, 1953. O. G. July 21. Class 39.

Modern Sales Company, Los Angeles, Calif. Long handled spoon. 577,814, July 21; Serial No. 640,951. Class 23.

Modern Sales Company, Los Angeles, Calif. Packaged set containing a long handled spoon and a matching cocktail pick or fork. 577,815, July 21; Serial No. 640,952. Class 23.

Monowatt Incorporated, Providence, R. I., assignor to General Electric Company. Portable lamp wiring kits. 577,777, July 21; Serial No. 611,235. Class 21.

Monsanto Chemical Company, St. Louis, Mo. Technical services rendered to industry in the testing of materials, etc. 577,746, July 21; Serial No. 572,510, published May 5, 1953. Class 100.

Moore, Benjamin, & Co., New York, N. Y. Paste paints. 577,630, July 21; Serial No. 631,016, published Apr. 28, 1953. Class 16.

Moore & Munger, New York, N. Y. Petroleum wax composition. 577,634, July 21; Serial No. 631,213, published Apr. 21, 1953. Class 15.

Moore & Munger, New York, N. Y. Petroleum wax composition. 577,637, July 21; Serial No. 631,502, published Apr. 28, 1953. Class 15.

Moore, Thomas, & Co.: *See*—
Moore, Thomas J.

Moore, Thomas J., doing business as Thomas Moore & Co., Minneapolis, Mo. Non-alcoholic, non-cereal, maltless soft drinks, and syrup. 577,799, July 21; Serial No. 629,312. Class 45.

Morey Mercantile Company: *See*—
Morey Mercantile Company, The.

Morey Mercantile Company, The, to Morey Mercantile Company, Denver, Colo. Canned fruits and vegetables, preserved fruits, jams, etc. 91,364, re-renewed Apr. 29, 1953. O. G. July 21. Class 46.

Motta, S. P. A., Milan, Italy. Wines. 577,761, July 21; Serial No. 570,867. Class 47.

Motta, S. P. A., Milan, Italy. Alcoholic liqueurs and cordials. 577,762, July 21; Serial No. 570,868. Class 49.

Multigraph Company, to Addressograph Multigraph Corporation, Cleveland, Ohio. Printing machines. 306,791, renewed Sept. 26, 1953. O. G. July 21. Class 23.

Munsingwear, Inc., Minneapolis, Minn. Brassières. 577,675, July 21; Serial No. 635,230, published Apr. 28, 1953. Class 39.

Murray, Edward E., doing business under the name of Yager Drug Company, Baltimore, Md., assignor to Yager Drug Company. Medicinal lotion. 577,783, July 21; Serial No. 616,235. Class 18.

Murray, Leo J., doing business under the name of Hayward Woolen Co., East Douglas, Mass. Textile fabrics. 577,723, July 21; Serial No. 638,868, published Apr. 28, 1953. Class 42.

Musco Company: *See*—
Musco, Lucio.

Musco, Lucio, doing business as Musco Company, New York, N. Y. Canned olive oil, olive oil packed in tins and glass containers, olive oil and vegetable oil compounds, etc. 577,485, July 21; Serial No. 549,082, published Apr. 28, 1953. Class 46.

Mycro Camera Co., Inc., New York, N. Y. Photographic lenses. 577,625, July 21; Serial No. 630,336, published Mar. 10, 1953. Class 26.

N. V. Nederlands Amerikaanse Fittingfabriek, Zutphenseweg, Deventer, Netherlands. Metal pipe fittings, valves, metal pipe unions, etc. 577,556, July 21; Serial No. 621,024, published May 5, 1953. Class 13.

National Cylinder Gas Company, Chicago, Ill. Hand operated fire extinguishers and parts thereof. 577,491, July 21; Serial No. 579,048, published Dec. 30, 1952. Class 23.

National Engineering Company, Chicago, Ill. Milling machines. 577,488, July 21; Serial No. 569,984, published Apr. 21, 1953. Class 23.

National Oil Products Company, Harrison, to New Jersey Turner Hall Corporation, Hoboken, N. J. Astringents, astringent cerates, bleach creams, etc. 303,598, renewed May 30, 1953. O. G. July 21. Class 51.

National Oil Products Company, Harrison, to New Jersey Turner Hall Corporation, Hoboken, N. J. Chemical compounds for general cleaning purposes, beard softening preparations (a soap), etc. 304,831, renewed July 18, 1953. O. G. July 21. Class 4.

National Sure-Fit Quilting Co., Inc., New York, N. Y. Quilted mattress pads and protectors. 577,706, July 21; Serial No. 626,635. Class 42.

Nebraska State Council of Ladies Auxiliaries of the United Brotherhood of Carpenters and Joiners of America, Omaha, Nebr. Printed gummed stamps. 577,631, July 21; Serial No. 631,117, published Apr. 28, 1953. Class 38.



Neuss, Hesslein & Co., Inc., New York, N. Y. Bleached satteens and other cotton piece goods. 306,953, renewed Oct. 10, 1953. O. G. July 21. Class 42.

Nevins Fruit Co., Inc.: *See*—
Nevins, Thomas F.

Nevins, Thomas F., Brooklyn and New York, N. Y., and Merritt, Fla., to Nevins Fruit Co., Inc., Titusville, Fla. Fresh fruit. 91,506, re-renewed May 6, 1953. O. G. July 21. Class 46.

New Jersey Turner Hall Corporation: *See*—
National Oil Products Company.

New York Rubber Corporation, New York, N. Y. Inflatable boats and inflatable floats. 577,645, July 21; Serial No. 632,306, published May 5, 1953. Class 19.

Noah's Ark Auto Accessories, Inc., Rochester, N. Y., to Perrine Battery Corporation, Waltham, Mass. Storage batteries. 306,006, renewed Aug. 29, 1953. O. G. July 21. Class 21.

Norcross, Inc., New York, N. Y. Greeting cards, printed greeting folders, printed seals, etc. 577,632, July 21; Serial No. 631,110, published Apr. 28, 1953. Class 38.

Nuodex Products Co., Inc., Elizabeth, N. J. Anti-skinning agents for paints, varnishes, and enamels. 577,643, July 21; Serial No. 631,947, published Apr. 28, 1953. Class 16.

Oakland Chemical Company, Inc., The: *See*—
Oakland Chemical Company, The.

Oakland Chemical Company, The, to The Oakland Chemical Company, Inc., New York, N. Y. Antiseptic and disinfectant compounds. 40,998, re-renewed Aug. 25, 1953. O. G. July 21. Class 18.

Oerlikon Machine Tool Works, Buehrle & Co., Zurich-Oerlikon, Switzerland. Machine tools. 577,538, July 21; Serial No. 613,942, published Apr. 7, 1953. Class 23.

Ohio Oil Company, The, Findlay, Ohio. Gasoline, fuel oil, and motor lubricating oils, etc. 306,851, renewed Oct. 3, 1953. O. G. July 21. Class 15.

Ohio Oil Company, The, Findlay, Ohio. Gasoline, fuel oil, and motor lubricating oils, etc. 306,854, renewed Oct. 3, 1953. O. G. July 21. Class 15.

Orange County Canners, Inc., Los Angeles, and Fullerton, to Hunt Foods, Inc., Fullerton, Calif. Canned orange juice, canned grapefruit juice, canned tomato sauce. 305,868, renewed Aug. 29, 1953. O. G. July 21. Class 46.

Oriental Textiles Incorporated, New York, N. Y. Piece goods. 577,729–30, July 21; Serial Nos. 639,285–6, published Apr. 28, 1953. Class 42.

Pacific Tire & Rubber Company, Oakland, Calif. Vehicle rubber tires and tubes and camel back material. 577,558, July 21; Serial No. 621,163, published May 5, 1953. Class 35.

Pacific Wire Products Company, Los Angeles, to Pacific Wire Products Company, Compton, Calif. Tinned bronze wire insect screening. 300,414, renewed Jan. 17, 1953. O. G. July 21. Class 13.

Page Milling Company, The, Luray, Va. Poultry, turkey, and stock feeds. 303,051, renewed May 9, 1953. O. G. July 21. Class 46.

Perfection Frocks, Inc.: *See*—
Goldfarb, Samuel J.

Perrine Battery Corporation: *See*—
Noah's Ark Auto Accessories, Inc.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Antibiotic preparation. 577,504, July 21; Serial No. 591,192, published May 5, 1953. Class 18.

Picturesort Company: *See*—
Smith, Clifford H.

Pinaud, Ed., Inc.: *See*—
Pinaud, Incorporated.

Pinaud, Incorporated, to Ed. Pinaud, Inc., New York, N. Y. Toilet soap, shaving soap sticks, shaving soap cream. 307,066, renewed Oct. 10, 1953. O. G. July 21. Class 51.

Plymouth Cordage Company, Plymouth, Mass. Fibrous and textile rope and twine. 92,577, re-renewed July 15, 1953. O. G. July 21. Class 7.

Plymouth Paper Company, Inc., The, Holyoke, Mass. Writing paper. 305,470, renewed Aug. 15, 1953. O. G. July 21. Class 37.

Poclask, Jeanne L., doing business under the name and style of Laverne, Chicago, Ill. Flexible plastic zippered bags. 577,604, July 21; Serial No. 634,487, published May 5, 1953. Class 2.

Pool Manufacturing Company, Sherman, Tex. Overalls and play suits. 305,842, renewed Aug. 22, 1953. O. G. July 21. Class 39.

Price Vacuum Stores, Inc., Philadelphia, Pa. Electric vacuum cleaners and vacuum cleaner parts. 577,583, July 21; Serial No. 624,500, published May 5, 1953. Class 21.

Procter & Gamble Co., The, Cincinnati and Ivorydale, to The Procter & Gamble Company, Cincinnati, Ohio. Seed-oils and seed products. 39,763, re-renewed Feb. 10, 1953. O. G. July 21. Class 46.

Procter & Gamble Company, The: *See*—
Procter & Gamble Co., The.

Producers Diamond Quality Oil & Gas Co., Topeka, Kans., to Standard Oil Company of California, San Francisco, Calif. Motor fuel oils, lubricating oils, lubricating greases, etc. 302,432, renewed Apr. 18, 1953. O. G. July 21. Class 15.

Pure Oil Company, The, Chicago, Ill. Cold patch cement, tube patch cement, gasket and rim cement, etc. 577,512, July 21; Serial No. 604,226, published May 5, 1953. Class 5.

Puritan Company, Incorporated, Rochester, N. Y. Fluid mixture for use in hydraulic power transmission systems, etc. 577,505, July 21; Serial No. 595,852, published Apr. 17, 1951. Class 52.

Quaker Maid Kitchens, Inc., Reading, Pa. Combination sink and cabinets, sink tops and splash boards. 577,658, July 21; Serial No. 633,998, published Apr. 21, 1953. Class 13.

Rabarzucca S. R. L., Milan, Italy. Alcoholic rhubarb beverage. 577,773, July 21; Serial No. 604,388. Class 49.

Rademaker's Koninklijke Cacao- en Chocolade-fabrieken N. V.: *See*—
Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken.

Radiator Specialty Company, Charlotte, N. C. Flush tank balls. 577,785, July 21; Serial No. 618,055. Class 13.

Rainbow Rembrandts Studios: *See*—
Jack, Isabelle B.

Red Bridge Book Cloth Company, Limited, The, Red Bridge, Ainsworth, Bolton, to The Red Bridge Book Cloth Company Limited, Ainsworth, Bolton, England. Tracing cloth and tracing paper. 303,572, renewed May 30, 1953. O. G. July 21. Class 37.

Red Bridge Book Cloth Company, Limited, The, Red Bridge Ainsworth, Bolton, to The Red Bridge Book Cloth Company Limited, Ainsworth, Bolton, England. Tracing cloth and tracing paper. 303,574–6, renewed May 30, 1953. O. G. July 21. Class 37.

Regal Chemical Corporation, Brooklyn, N. Y. Room deodorizer and aerosol mixtures containing a room deodorizer. 577,555, July 21; Serial No. 620,825, published May 5, 1953. Class 6.

Resyn Corporation of America, Linden, N. J. Alkyls. 577,738, July 21; Serial No. 640,542, published May 5, 1953. Class 6.

Rexall Drug Company: *See*—
United Drug Company.

Richman Ice Cream Co., Sharptown and Woodstown, N. J. French ice cream. 577,506, July 21; Serial No. 626,264, published May 5, 1953. Class 46.

Ritter Company, Inc.: *See*—
Ritter Dental Manufacturing Company, Inc.

Ritter Dental Manufacturing Company, Inc., by Ritter Company, Inc., Rochester, N. Y. Miscellaneous electric coils and electric motors. 391,084, Oct. 21, 1941. Republished July 21. Class 21.

Rochambeau Worsted Company, Providence, R. I. Textile fabrics. 577,621, July 21; Serial No. 630,151, published Apr. 28, 1953. Class 42.

Rockwell-Barnes Company, Chicago, Ill. Bond paper. 304,484, renewed July 11, 1953. O. G. July 21. Class 37.

Roddenbery Brothers: *See*—
Roddenbery, W. B., Co. Inc.

Roddenbery, W. B., Co. Inc., doing business as Roddenbery Brothers, Cairo, Ga. Table syrup. 577,705, July 21; Serial No. 637,950, published Apr. 28, 1953. Class 46.

Rogers, Harry H., Co. Inc., Chicago, Ill. Cleaning solutions and solvents. 577,642, July 21; Serial No. 631,802, published May 5, 1953. Class 52.

Roll Packing House, Chula Vista, Calif. Fresh vegetables. 577,742, July 21; Serial No. 641,802, published Apr. 28, 1953. Class 46.

Roman Meal Company, Tacoma, Wash. Whole wheat cereal. 307,220, renewed Oct. 17, 1953. O. G. July 21. Class 46.

Rootle Kazootle, Inc., New York, N. Y. Lead pencils. 577,608, July 21; Serial No. 628,221, published Feb. 24, 1953. Class 37.

Rosenfeld, Joseph E., Council Bluffs, Iowa, to J. E. Rosenfeld, Beverly Hills, Calif. Non-alcoholic tonic malt beverage. 92,718, re-renewed July 22, 1953. O. G. July 21. Class 45.

Ross, Mark, doing business as California Engineering Company, Los Angeles, Calif. Potato shredding machine. 577,494, July 21; Serial No. 583,051, published Dec. 9, 1952. Class 23.

Rubber Corporation of America, Brooklyn, N. Y. Plasticizing compounds. 577,715, July 21; Serial No. 638,316, published May 5, 1953. Class 6.

Rubinstein, Charles L., doing business as Ruby Products Co., Milwaukee, Wis. Paper covers. 577,513, July 21; Serial No. 604,233, published Mar. 3, 1953. Class 37.

Ruby Products Co.: *See*—
Rubinstein, Charles L.

Rutger Fabrics Corp., New York, N. Y. Textile fabrics. 577,614, July 21; Serial No. 629,461, published Apr. 28, 1953. Class 42.

Rystan Company, New York, by Rystan Company, Inc., Mount Vernon, N. Y. Therapeutic chlorophyll and chlorophyll derivatives preparations. 408,787, Aug. 29, 1944. Republished July 21. Class 18.

Rystan Company, Inc.: *See*—
Rystan Company.

Sagner's, A., Son, Baltimore, Md. Men's suits, coats, slacks, etc. 577,809, July 21; Serial No. 634,921. Class 39.

Scanlan, Elizabeth S., doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo. Artificial fish lures. 577,743, July 21; Serial No. 642,507, published May 5, 1953. Class 22.

Scene Publishing Company, Inc., St. Louis, Mo. Semi-monthly periodical. 577,532, July 21; Serial No. 611,311, published May 5, 1953. Class 38.

Schaffer, Karl, Jr., doing business under the name and style of Titanium Research Company, New York, N. Y. Research in the fields of metallurgy and mineralogy. 577,747, July 21; Serial No. 611,109, published Apr. 28, 1953. Class 100.

Schweppes, Limited, by Schweppes (Overseas) Limited, London, England. Mineral waters. 143,741, June 7, 1921. Republished July 21. Class 45.

Schweppes, Limited, by Schweppes (Overseas) Limited, London, England. Mineral waters. 144,921, July 19, 1921. Republished July 21. Class 45.

Schweppes (Overseas) Limited: *See*—
Schweppes, Limited.

Seagram-Distillers Corporation: *See*—
Distillers Corporation Limited.

Seamprufe Incorporated, New York, N. Y. Women's apparel. 577,692, July 21; Serial No. 637,191, published Apr. 28, 1953. Class 39.

Seeman, J. E., Company, Inc., Los Angeles, Calif. Leather billfolds, leather wallets, leather key cases, etc. 577,542, July 21; Serial No. 616,341, published Apr. 28, 1953. Class 3.

Select Citrus Growers, Inc., Fullerton, Calif. Fresh oranges. 577,803, July 21; Serial No. 630,352. Class 46.

Self Lock Fastener Corporation, Belleville, N. J., to Standard Pressed Steel Co., Jenkintown, Pa. Spring pins. 572,361, Mar. 24, 1953. New certificate. O. G. July 21. Class 13.

Seng Company, The, Chicago, Ill. Resilient seats and mattresses and parts thereof. 303,253, renewed May 16, 1953. O. G. July 21. Class 32.

Senteo, Inc., West Palm Beach, Fla. Water emulsifiable concentrate of insecticidal, germicidal and fungicidal solution. 577,535, July 21; Serial No. 612,975, published May 5, 1953. Class 18.

Service Manufacturing Company, Inc., New York, N. Y. Leather bag case for carrying photographic camera and equipments. 577,774, July 21; Serial No. 606,335. Class 26.

Shells, Marie L., Syracuse, N. Y. Card case containing a tape measure. 577,629, July 21; Serial No. 630,913, published Mar. 10, 1953. Class 26.

Shiba, Leona B., Chicago, Ill. Marionettes. 577,698, July 21; Serial No. 637,404, published May 5, 1953. Class 22.

Shorr, J. R., Milling Company, Chicago, Ill. Cereal flakes used in the preparation of beer. 577,779, July 21; Serial No. 612,277. Class 48.

Siegel Bros. Kiki Maid Koats Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Piece goods. 340,971, Nov. 24, 1936. Republished July 21. Class 42.

Siegel Bros. Kiki Maid Koats Inc., by Leeds Ltd. Coats, Inc., New York, N. Y. Girls', juniors', misses', little women's and ladies' coats and suits. 345,176, Apr. 20, 1937. Republished July 21. Class 39.

Simplex Valve & Meter Company, Philadelphia, Pa. Meters and gauges and totalizers therefor, etc. 335,671, June 9, 1936. Republished July 21. Class 26.

Simpson, De Roy, Tulelake, Calif. Syphon tubes. 577,663, July 21; Serial No. 634,349, published Apr. 21, 1953. Class 13.

Simpson Laboratories, Inc., New York, N. Y. Isonicotinic acid hydrazide. 577,710, July 21; Serial No. 638,216, published Apr. 28, 1953. Class 18.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics. 577,732, July 21; Serial No. 639,541, published Apr. 28, 1953. Class 42.

Smith, Clifford H., doing business as Picturesort Company, New Haven, Conn. Reproductions of printed and pictorial matter. 577,564–5, July 21; Serial Nos. 622,464–5, published May 5, 1953. Class 38.

Smith, D. A., & Co., New York, N. Y. Hand woven woolen tweed piece goods. 577,725, July 21; Serial No. 639,084, published Apr. 28, 1953. Class 42.

Snyder, H. P., Manufacturing Company, Inc., Little Falls, N. Y. Bicycles. 577,499, July 21; Serial No. 586,021, published May 5, 1953. Class 19.

Societe Industrielle de Lunetterie, S.–A.–R. L., Paris, France. Spectacles. 577,601, July 21; Serial No. 627,227, published Mar. 10, 1953. Class 26.

Society of Chemical Industry in Basle, to Ciba Limited, Basel, Switzerland. Tooth paste. 301,633, renewed Mar. 7, 1953. O. G. July 21. Class 51.

Solar Steel Corporation, Cleveland, Ohio. Publications. 577,716, July 21; Serial No. 638,326, published Apr. 28, 1953. Class 38.

Southern Friction Materials Company, Charlotte, N. C. Hydraulic brake cylinder repair kits and parts for hydraulic brake systems. 577,502, July 21; Serial No. 589,278, published May 5, 1953. Class 19.

Spider Staging, Inc., Renton, Wash. Power driven scaffolding. 577,536, July 21; Serial No. 613,348, published Dec. 30, 1952. Class 23.

Spray O Bond Company, Milwaukee, Wis. Transparent water-resistant masonry sealer coatings. 577,541, July 21; Serial No. 615,661, published May 5, 1953. Class 16.

Springfield Coated Paper Corp., Camden, N. J., and New York, N. Y. Coated paper. 577,623, July 21; Serial No. 630,226, published Feb. 24, 1953. Class 37.

Standard Cap and Seal Corporation, by Standard Packaging Corporation, Chicago, Ill. Flexible moisture proof composition bags. 420,764, Apr. 30, 1946. Republished July 21. Class 2.

Standard Cap and Seal Corporation, by Standard Packaging Corporation, Chicago, Ill. Flexible moisture-proof composition bags. 421,209, May 21, 1946. Republished July 21. Class 2.

Standard Cap and Seal Corporation, by Standard Packaging Corporation, Chicago, Ill. Laminated paper closures. 423,747, Sept. 10, 1946. Republished July 21. Class 50.

Standard Cap and Seal Corporation, by Standard Packaging Corporation, Chicago, Ill. Bottle closures. 426,552, Dec. 31, 1946. Republished July 21. Class 50.

Standard Cap and Seal Corporation, by Standard Packaging Corporation, Chicago, Ill. Flexible moisture proof composition bags. 430,178, June 10, 1947. Republished July 21. Class 2.

Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation. Coated drab paper. 577,507, July 21; Serial No. 598,120, published Feb. 24, 1953. Class 37.

Standard Oil Company of California: *See*—
Producers Diamond Quality Oil & Gas Co.

Standard Packaging Corporation: *See*—
Standard Cap and Seal Corporation.

Standard Pressed Steel Co.: *See*—
Self Lock Fastener Corporation.

Standard-Toch Chemicals, Inc.: *See*—
Standard Varnish Works.

Standard Varnish Works, New York, to Standard-Toch Chemicals, Inc., Staten Island, N. Y. Paint enamels. 307,231, renewed Oct. 17, 1953. O. G. July 21. Class 16.

Stanley Home Products, Inc., Westfield, Mass. Combs and bobby pins, and fans for hand use. 577,514, July 21; Serial No. 604,401, published Apr. 7, 1953. Class 40.

Steffenson, Marshall, Trustee-Louisiana, Hagerstown, Ind. Oil well pumps. 577,786, July 21; Serial No. 618,558. Class 23.

Steven, Glenn A., doing business under the firm name Steven Motor Chair Co., Kansas City, Kans. Motor-propelled chair vehicles. 577,805, July 21; Serial No. 632,757. Class 19.

Steven Motor Chair Co.: *See*—
Steven, Glenn A.

Stevens, J. P., & Co., Inc., New York, N. Y. Cotton piece goods. 577,708, July 21; Serial No. 638,166, published Apr. 28, 1953. Class 42.

Strauss, Levi, & Company, San Francisco, Calif. Overalls. 577,490, July 21; Serial No. 578,119, published May 5, 1953. Class 39.

Stresen-Reuter, Fred'k. A., Inc., Chicago, Ill. Architectural type paints and primers; enamels; varnishes; etc. 577,582, July 21; Serial No. 624,430, published Apr. 28, 1953. Class 16.

Sun Fashions of Hawaii, Honolulu, Hawaii. Skirts, dresses, housecoats, etc. 577,768, July 21; Serial No. 594,594. Class 39.

Sunray Electric, Inc., Warren, Pa. Fluorescent lamps. 577,776, July 21; Serial No. 610,035. Class 21.

Superior Paint and Varnish Corporation, Chicago, Ill. Alkyd resin rubber base paint. 577,581, July 21; Serial No. 624,375, published Apr. 28, 1953. Class 16.

Sur-Grip, Inc., Forest Hills, N. Y., by change of name from Hangers for Pants, Inc. Clothes hangers. 577,771, July 21; Serial No. 601,146. Class 50.

Surpass Leather Co., New York, N. Y., to Surpass Leather Company, Philadelphia, Pa. Leather. 306,055, renewed Sept. 26, 1953. O. G. July 21. Class 1.

Surpass Leather Company: *See*—
Surpass Leather Co.

Swiss Importing Co., Inc., by Swiss Pine Importing Co., Inc., New York, N. Y. Bath oil and cologne. 361,202, Oct. 11, 1938. Republished July 21. Class 51.

Swiss Pine Importing Co., Inc.: *See*—
Swiss Importing Co., Inc.

Taffae, Leon, Co., Inc., New York, N. Y. Coffee. 577,718, July 21; Serial No. 638,490, published Apr. 28, 1953. Class 46.

Takahashi, C. T., & Co.: *See*—
Takahashi, Charles T.

Takahashi, Charles T., doing business under the name of C. T. Takahashi & Co., Seattle, Wash. Optical goods. 577,660, July 21; Serial No. 634,127, published Mar. 10, 1953. Class 26.

Taylor Instrument Companies, Rochester, N. Y. Recording barometers. 92,598, re-renewed July 15, 1953. O. G. July 21. Class 26.

Taylor-Winfield Corporation, The, Warren, Ohio. Solenoid-operated air valves. 577,767, July 21; Serial No. 590,189. Class 21.

Tech-Art Plastics Company Incorporated: *See*—
Boonton Rubber Manufacturing Company.

Terre Co., The, Rochelle Park, N. J. Insecticide. 577,639, July 21; Serial No. 631,697, published May 5, 1953. Class 6.



Terre Co., The, Rochelle Park, N. J. Crabgrass and weed killer. 577,640, July 21; Serial No. 631,698, published May 5, 1953. Class 6.

Tested Papers of America, Inc., Chicago, Ill. Paper cups, paper plates and paper bags. 577,543, July 21; Serial No. 616,519, published Apr. 28, 1953. Class 2.

Tested Papers of America, Inc., Chicago, Ill. Gummed tape. 577,544, July 21; Serial No. 616,529, published May 5, 1953. Class 5.

Tested Papers of America, Inc., Chicago, Ill. Gummed tape. 577,545, July 21; Serial No. 616,523, published May 5, 1953. Class 5.

Texas Lawn Sprinkler Co., Inc., Dallas, Tex. Gas and liquid pipe fittings. 577,606, July 21; Serial No. 628,011, published Apr. 28, 1953. Class 13.

Titanium Research Company: *See*—
Schaffer, Karl, Jr.

Titus Bros. & Sons Music Company—Publisher, Philadelphia, Pa. Printed music and printed sheets containing music notes. 577,524, July 21; Serial No. 608,903, published May 5, 1953. Class 38.

To-Day's House, Inc., New York, N. Y. Furniture. 577,772, July 21; Serial No. 602,347. Class 32.

Totem Distributing Co., Seattle, Wash. Wooden handles for hammers, hatchets, etc. 577,570, July 21; Serial No. 623,090, published Apr. 21, 1953. Class 23.

Toycrafters, Philadelphia, Pa. Dolls. 577,495, July 21; Serial No. 584,093, published May 5, 1953. Class 22.

Transparent Package Company, Chicago, Ill. Coated regenerated cellulose casings. 577,647, July 21; Serial No. 633,129, published Apr. 28, 1953. Class 2.

Triangle Finishing Corp., Johnstown, N. Y. Treating dyed acetate fabrics of others. 577,748, July 21; Serial No. 611,385, published Apr. 28, 1953. Class 106.

Turbo-Matic Chain Saws Ltd., Vancouver, British Columbia, Canada. Power chain saws and parts therefor. 577,711, July 21; Serial No. 638,227, published Apr. 21, 1953. Class 23.

UBC Distributors, Incorporated: *See*—
Coppa Co., The.
Coppa Company, The.
United Buyers Corporation.

UBC Distributors, Incorporated, Chicago, Ill. Canned dog food. 426,154, Dec. 17, 1946. Republished July 21. Class 46.

Uarco Incorporated: *See*—
United Autographic Register Company.

Ulmann, Bernhard, & Co., New York, to Bernhard Ulmann Co. Inc., Long Island City, N. Y. Yarns. 93,782, renewed Oct. 14, 1953. O. G. July 21. Class 43.

Ulmann, Bernhard, Co. Inc.: *See*—
Ulmann, Bernhard, & Co.

Union Oil Company of California, Los Angeles, Calif. Dry cleaning of fabrics. 577,759, July 21; Serial No. 622,872, published May 5, 1953. Class 103.

United Aircraft Products, Inc., Dayton, Ohio. Flow control valves. 577,622, July 21; Serial No. 630,172, published May 5, 1953. Class 13.

United Autographic Register Company, to Uarco Incorporated, Chicago, Ill. Autographic registers, paper holders and guides, ribbon holders and guides for typewriters and autographic registers. 93,137, re-renewed Aug. 19, 1953. O. G. July 21. Class 23.

United Autographic Register Company, to Uarco Incorporated, Chicago, Ill. Typewriter attachments, etc. 304,840, renewed July 18, 1953. O. G. July 21. Class 23.

United Buyers Corporation, by UBC Distributors, Incorporated, Chicago, Ill. Toilet tissue, paper napkins, paper towels, etc. 380,743, Aug. 27, 1940. Republished July 21. Class 37.

United Buyers Corporation, also doing business as Foodcraft Products, by UBC Distributors, Incorporated, Chicago, Ill. Drain pipe cleaner, lye, bluing, etc. 381,033, Sept. 10, 1940. Republished July 21. Classes 6 and 52.

United Buyers Corporation, by UBC Distributors, Incorporated, Chicago, Ill. Brooms, mops, scrubbing brushes, etc. 382,610, Nov. 5, 1940. Republished July 21. Class 29.

United Buyers Corporation, doing business as Foodcraft Products, by UBC Distributors, Incorporated, Chicago, Ill. Canned fruits, canned berries, canned vegetables, etc. 382,738, Nov. 12, 1940. Republished July 21. Class 46.

United Buyers Corporation, also doing business as Foodcraft Products, by UBC Distributors, Incorporated, Chicago, Ill. Brooms, mops, scrubbing brushes, etc. 383,207, Nov. 26, 1940. Republished July 21. Class 29.

United Buyers Corporation, also doing business as Foodcraft Products, by UBC Distributors, Incorporated, Chicago, Ill. Toilet soaps, laundry soap, soap flakes, etc. 395,538, June 2, 1942. Republished July 21. Class 52.

United Drug Company, Jersey City, N. J., and Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Dyspepsia tablets. 40,019, re-renewed Mar. 31, 1953. O. G. July 21. Class 18.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Mosquito-repelling preparation. 90,763, re-renewed Mar. 18, 1953. O. G. July 21. Class 6.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics or the like. 577,755, July 21; Serial No. 635,106, published Apr. 28, 1953. Class 106.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics or the like. 577,756, July 21; Serial No. 635,204, published Apr. 28, 1953. Class 106.

United Newspapers Magazine Corporation, New York, N. Y. Newspaper column or feature. 577,636, July 21; Serial No. 633,804, published Apr. 28, 1953. Class 38.

U S Chemical & Supply Co., Kansas City, Mo. Liquid preparation for flushing and cleaning radiators, liquid preparation for dissolving grease and dirt, etc. 577,493, July 21; Serial No. 582,870, published Dec. 18, 1951. Class 52.

U. S. Slicing Machine Company, Inc., La Porte, Ind. Food handling machines and parts thereof and therefor. 577,501, July 21; Serial No. 588,338, published Apr. 7, 1953. Class 23.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Pump barrels. 577,602, July 21; Serial No. 627,473, published May 5, 1953. Class 23.

United States Steel Company, Pittsburgh, Pa., by merger United States Steel Corporation. Metal pipes and tubes. 577,633, July 21; Serial No. 631,137, published May 5, 1953. Class 13.

United States Steel Corporation: *See*—
United States Steel Company.

Universal Oil Products Company, Chicago, Ill. Gasoline. 577,585, July 21; Serial No. 624,712, published Apr. 21, 1953. Class 15.

Van Houten, C. J., & Zoon, Weesp, Netherlands, to C. J. Van Houten & Zoon, N. V., Weesp, Holland. Cocoa. 304,282, renewed June 27, 1953. O. G. July 21. Class 46.

Van Houten, C. J., & Zoon, N. V.: *See*—
Van Houten, C. J., & Zoon.

Vanity Fair Silk Mills, Reading, Pa., to Julius Kayser & Co., New York, N. Y. Hosiery. 306,697, renewed Sept. 26, 1953. O. G. July 21. Class 39.

Victory Laundry Co.: *See*—
Akers, Victor.

Virginia Woolen Company, Winchester, Va. Woolen fabrics. 577,659, July 21; Serial No. 634,063, published Apr. 28, 1953. Class 42.

Vitalic Battery Company, Inc., Dallas, Tex. Storage batteries. 577,778, July 21; Serial No. 611,925. Class 21.

Wabasha Roller Mill Company, Wabasha, by International Milling Company, Minneapolis, Minn. Wheat flour. 170,806, July 24, 1923. Republished July 21. Class 46.

Walk-Easy Foot Rest Manufacturing Company: *See*—
Chippewa Shoe Manufacturing Company.

Wander Company, The, Chicago, Ill. Medicinal preparation. 577,650, July 21; Serial No. 633,399, published Apr. 21, 1953. Class 18.

Waring Products Corporation, New York, N. Y. Electrical disintegrators and mixers. 440,344, Aug. 24, 1948. Republished July 21. Class 21.

Warren Woolen Co., The, Stafford Springs, Conn. Woolen piece goods. 577,731, July 21; Serial No. 639,351, published Apr. 28, 1953. Class 42.

Warwick Wax Co. Inc., Long Island City, N. Y. Microcrystalline petroleum waxes. 577,687, July 21; Serial No. 637,013, published Apr. 21, 1953. Class 15.

Watertown Manufacturing Company, The, Watertown, Conn. Dishes, bowls, tumblers, etc. 577,724, July 21; Serial No. 638,827, published May 5, 1953. Class 2.

Weather-Seal Inc., Barberton, Ohio. Windows and doors provided with interchangeable storm windows and screens. 577,518, July 21; Serial No. 606,994, published Apr. 21, 1953. Class 12.

Weidner Canning Company: *See*—
Weidner, Charles J.

Weidner, Charles J., doing business under the name Weidner Canning Company, Plymouth, Ind. Pickles, pickle relish, and peppers. 577,802, July 21; Serial No. 630,248. Class 46.

Welcome Wagon, Inc.: *See*—
Welcome Wagon Service Company, Inc.

Welcome Wagon Service Company, Inc., by Welcome Wagon, Inc., New York, N. Y. Periodicals. 439,421, June 22, 1948. Republished July 21. Class 38.

Welcome Wagon Service Company, Inc., by Welcome Wagon, Inc., New York, N. Y. Printed folders. 442,117, Feb. 22, 1949. Republished July 21. Class 38.

West, Beatrice, New York, N. Y. Paints. 577,688, July 21; Serial No. 637,015, published Apr. 28, 1953. Class 16.

Western Lithograph Company, Los Angeles, Calif. Imprinted reflective labels for identification purposes. 577,673, July 21; Serial No. 635,209, published Apr. 28, 1953. Class 38.

Western Tablet & Stationery Corporation, Dayton, Ohio. Loose writing paper and note book fillers. 577,484, July 21; Serial No. 520,320, published Feb. 17, 1953. Class 37.

Weston, Byron, Company: *See*—
Hampshire Paper Company.

Will Corporation, The, Rochester, N. Y. Cellulose compound. 132,592, June 22, 1920. Republished July 21. Class 6.

Williams Oil-O-Matic Heating Corporation, by Eureka Williams Corporation, Bloomington, Ill. Domestic hot water heaters. 304,965, July 25, 1933. Republished July 21. Class 34.

Wilson Jones Company, Chicago, Ill. Paper fasteners. 577,497, July 21; Serial No. 585,616, published Mar. 3, 1953. Class 37.
Wilson, Web, Oil Tools, Incorporated, Gardena, Calif. Oil well tools. 577,627, July 21; Serial No. 630,640, published Apr. 21, 1953. Class 23.
Winebrenner, D. E., Company, Inc., Hanover, Pa. Canned vegetables, and canned vegetable juices. 577,540, July 21; Serial No. 615,427, published May 5, 1953. Class 46.
Wisconsin Alumni Research Foundation, Madison, Wis. Rat and mouse poison. 577,546, July 21; Serial No. 617,465, published May 5, 1953. Class 6.
Wisconsin Coffee Company, The: *See*—
Coppa Company, The.
Wishengrad, Hyman, doing business under the firm name and style of Editors Syndicate, New York, N. Y. Comic strip. 577,721, July 21; Serial No. 638,621, published May 5, 1953. Class 38.
Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Cough syrup and cold tablets. 577,603, July 21; Serial No. 637,222, published Apr. 28, 1953. Class 18.
Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Liquid food formula. 577,559, July 21; Serial No. 621,297, published May 5, 1953. Class 46.
Yager Drug Company: *See*—
Murray, Edward E.
Yeast-Vite (U. S. A.) Inc., Niagara Falls, N. Y., to Yeast-Vite (U. S. A.) Inc., Bloomfield, N. J. Tonic intended for the relief of headache and nerve pains. 302,424, renewed Apr. 18, 1953. O. G. July 21. Class 18.
Yeomans Brothers Company, Chicago, Ill. Pumps, centrifugal pumps, and sump pumps. 577,717, July 21; Serial No. 638,383, published Apr. 21, 1953. Class 23.
Zakon, William, & Sons: *See*—
Federal Liquors Ltd.
Zalenski, Stanley: *See*—
Chromart Laboratories.
Zerr, Charles M., doing business as Zerr Industries, Independence, Mo. Clip mounted rods. 577,792, July 21; Serial No. 623,292. Class 13.
Zerr Industries: *See*—
Zerr, Charles M.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Calcite preparation. Harry T. Campbell Sons' Corp. 577,813, July 21; Serial No. 640,606.
Fur skins. A. Hollander & Son, Inc. 300,503, renewed Jan. 24, 1953. O. G. July 21.
Leather. Surpass Leather Co. 306,655, renewed Sept. 26, 1953. O. G. July 21.

## CLASS 2

Bags. Bemis Bro. Bag Company. 577,510, July 21; Serial No. 602,487, published May 5, 1953.
Bags, Flexible moisture proof composition. Standard Cap and Seal Corporation. 420,764, Apr. 30, 1946. Republished July 21.
Bags, Flexible moisture-proof composition. Standard Cap and Seal Corporation. 421,209, May 21, 1946. Republished July 21.
Bags, Flexible moisture proof composition. Standard Cap and Seal Corporation. 430,178, June 10, 1947. Republished July 21.
Bags, Flexible plastic zippered. J. L. Pociask. 577,664, July 21; Serial No. 634,487, published May 5, 1953.
Bags, Garment. Harjax Products Corp. 577,587, July 21; Serial No. 625,270, published Apr. 28, 1953.
Casings, Coated regenerated cellulose. Transparent Package Company. 577,647, July 21; Serial No. 633,129, published Apr. 28, 1953.
Cups, Paper, paper plates and paper bags. Tested Papers of America, Inc. 577,543, July 21; Serial No. 616,519, published Apr. 28, 1953.
Dishes, bowls, tumblers, etc. The Watertown Manufacturing Company. 577,724, July 21; Serial No. 638,927, published May 5, 1953.
Paper drinking cups. Boston Envelope Company. 305,420–1, renewed Aug. 15, 1953. O. G. July 21.
Plastic housewares—namely, plates, bowls, tumblers, etc. C. M. Burroughs. 577,653, July 21; Serial No. 633,605, published Apr. 28, 1953.
Tool chests, Empty, hopper bins, tool boxes, etc. Lyon Metal Products, Incorporated. 577,517, July 21; Serial No. 605,909, published Mar. 24, 1953.
Trays, Molded pulp packing. Keyes Fibre Company. 577,527, July 21; Serial No. 610,176, published May 5, 1953.

## CLASS 3

Billfolds, Leather, leather wallets, leather key cases, etc. J. E. Seeman Company, Inc. 577,542, July 21; Serial No. 616,341, published Apr. 28, 1953.
Handbags and pocket books, Ladies'. Coronet Handbags, Inc. 433,987, Nov. 4, 1947. Republished July 21.
Luggage, Soft and hard sides, men's and women's. Ace Auto Luggage Co., Inc. 577,648, July 21; Serial No. 633,137, published Mar. 31, 1953.

## CLASS 4

Abrasives, Coated. F. Pannertz Schmirgelwerk Kommanditgesellschaft (Inc.). 577,594, July 21; Serial No. 625,779, published May 5, 1953.
Abrasives, Coated. Minnesota Mining and Manufacturing Company. 577,689, July 21; Serial No. 637,067, published Apr. 28, 1953.
Chemical compounds for general cleaning purposes, beard softening preparations (a soap), etc. National Oil Products Company. 304,831, renewed July 18, 1953. O. G. July 21.

## CLASS 5

Adhesive tape, Water remoistenable. The Gummed Products Company. 577,682, July 21; Serial No. 636,171, published Apr. 28, 1953.
Gummed tape. Tested Papers of America, Inc. 577,544, July 21; Serial No. 616,520, published May 5, 1953.
Gummed tape. Tested Papers of America, Inc. 577,545, July 21; Serial No. 616,523, published May 5, 1953.
Patch cement, Cold, tube patch cement, gasket and rim cement, etc. The Pure Oil Company. 577,512, July 21; Serial No. 604,226, published May 5, 1953.

## CLASS 6

Alkyls. Reayn Corporation of America. 577,738, July 21; Serial No. 640,542, published May 5, 1953.
Cellulose compound. The Will Corporation. 132,502, June 22, 1920. Republished July 21.
Chemical additives. Columbia-Southern Chemical Corporation. 577,641, July 21; Serial No. 631,722, published May 5, 1953.
Chemical, curing and preserving preparations. Aktieselskabet Kymeia. 306,677, renewed Sept. 26, 1953. O. G. July 21.
Chemical dehydrating agent, Non-cellulosic. Eaton Chemical and Dyestuff Company. 577,560, July 21; Serial No. 621,551, published Dec. 23, 1952.
Chemical preparations. American Chemical Paint Company. 577,712, July 21; Serial No. 638,234, published May 5, 1953.
Chemical products. Farbwerke Hoechst, vormals Meister Lucius & Brüning. 577,568, July 21; Serial No. 622,711, published May 5, 1953.
Cleaner, Drain pipe, lye, bluing, etc. United Buyers Corporation. 381,033, Sept. 10, 1940. Republished July 21.
Combustible scented material used for starting fires, etc. Kindle-Kwik. 577,808, July 21; Serial No. 634,373.
Crabgrass and weed killer. The Terre Co. 577,640, July 21; Serial No. 631,698, published May 5, 1953.
Disinfectants and insecticides. H. J. Brownstein. 306,672, renewed Sept. 26, 1953. O. G. July 21.
Flotation sulphur. California Spray-Chemical Corporation. 302,398, renewed Apr. 18, 1933. O. G. July 21.
Hard synthetic wax. Alrose Chemical Company. 577,557, July 21; Serial No. 621,116, published May 5, 1953.
Insect repellent. McKesson & Robbins, Incorporated. 577,706, July 21; Serial No. 638,007, published May 5, 1953.
Insecticide. The Terre Co. 577,639, July 21; Serial No. 631,697, published May 5, 1953.
Mosquito-repelling preparation. United Drug Company. 90,763, re-renewed Mar. 18, 1953. O. G. July 21.
Organic solvent liquid carriers for the dispersion of solid lubricants. The AP Parts Corporation. 577,667, July 21; Serial No. 634,955, published May 5, 1953.
p-Chlorophenyl p-chlorobenzenesulfonate. The Dow Chemical Company. 577,740, July 21; Serial No. 641,279, published May 5, 1953.
Plasticizing compounds. Rubber Corporation of America. 577,715, July 21; Serial No. 638,310, published May 5, 1953.
Rat and mouse poison. Wisconsin Alumni Research Foundation. 577,546, July 21; Serial No. 617,465, published May 5, 1953.
Room deodorizer and aerosol mixtures containing a room deodorizer. Regal Chemical Corporation. 577,555, July 21; Serial No. 620,825, published May 5, 1953.
Soda ash, potash salts, muriate of potash, etc. American Potash & Chemical Corporation. 306,280, renewed Sept. 12, 1953. O. G. July 21.

## CLASS 7

Rope and twine, Fibrous and textile. Plymouth Cordage Company. 92,577, re-renewed July 13, 1953. O. G. July 21.
Ropes and cables, Wire. Deutsche Gold- & Silber-Scheideanstalt. 301,121, renewed Feb. 21, 1953. O. G. July 21.



## CLASS 10

Plant stimulant. American Chemical Paint Company. 577,806, July 21; Serial No. 632,771.

## CLASS 12

Cement, Portland, and lime. The Colorado Portland Cement Company. 102,559, Feb. 16, 1915. Republished July 21.
Portable or knockdown buildings. Lord & Burnham Company. 376,487, Mar. 26, 1940. Republished July 21.
Doors, structural panels, panel stock, moldings, etc. Farley & Loetscher Manufacturing Company. 302,732, renewed Apr. 25, 1953. O. G. July 21.
Stairways, Folding. Hollywood Disappearing Attic Stair Co. 577,793, July 21; Serial No. 625,104.
Windows and doors provided with interchangeable storm windows and screens. Weather-Seal Inc. 577,518, July 21; Serial No. 606,994, published Apr. 21, 1953.

## CLASS 13

Butt chains. Electric Steel Foundry. 577,775, July 21; Serial No. 609,338.
Clip mounted rods. C. M. Zerr. 577,792, July 21; Serial No. 623,292.
Fastening devices. Aviation Developments Limited. 577,803, July 21; Serial No. 627,484, published Apr. 21, 1953.
Floor drains. Crampton Farley Mfg. Co. 577,686, July 21; Serial No. 636,776, published Apr. 28, 1953.
Flush tank balls. Radiator Specialty Company. 577,785, July 21; Serial No. 618,055.
Metal tubing. The American Brass Company. 577,676, July 21; Serial No. 635,805, published May 5, 1953.
Noxzles and sprinklers, Garden, lath house sprinklers, orchard sprinklers, etc. Irrigation Engineering & Mfg. Co. 577,638, July 21; Serial No. 631,623, published Apr. 28, 1953.
Pipe fittings, Gas and liquid. Texas Lawn Sprinkler Co., Inc. 577,606, July 21; Serial No. 628,011, published Apr. 28, 1953.
Pipe fittings, Metal, valves, metal pipe unions, etc. N. V. Nederlands Amerikaanse Fittingfabriek. 577,536, July 21; Serial No. 621,024, published May 5, 1953.
Pipes and tubes, Metal. United States Steel Company. 577,633, July 21; Serial No. 631,137, published May 5, 1953.
Screening, Tinned bronze wire insect. Pacific Wire Products Company. 300,414, renewed Jan. 17, 1953. O. G. July 21.
Sink and cabinets, Combination, sink tops and splash boards. Quaker Maid Kitchens, Inc. 577,658, July 21; Serial No. 633,998, published Apr. 21, 1953.
Spring pins. Self Lock Fastener Corporation. 572,361, Mar. 24, 1953. New certificate. O. G. July 21.
Sprinklers, Automatic. Globe Automatic Sprinkler Company. 304,990, renewed July 25, 1953. O. G. July 21.
Staples. Acme Staple Company. 577,684, July 21; Serial No. 636,449, published Apr. 14, 1953.
Lazy Susan relish dish, Lazy Susan, etc. Kromex Corporation. 577,600, July 21; Serial No. 626,995, published May 5, 1953.
Syphon tubes. D. Simpson. 577,663, July 21; Serial No. 634,349, published Apr. 21, 1953.
Thumb tacks. The Bison Thumb Tack Company. 577,567, July 21; Serial No. 622,578, published May 5, 1953.
Valves, Air control, hydraulic valves, pilot operated valves, etc. Hannifin Corporation. 577,649, July 21; Serial No. 633,360, published Apr. 21, 1953.
Valves, Flow control. United Aircraft Products, Inc. 577,622, July 21; Serial No. 630,172, published May 5, 1953.

## CLASS 15

Gasoline. Universal Oil Products Company. 577,585, July 21; Serial No. 624,712, published Apr. 21, 1953.
Gasoline, fuel oil, and motor lubricating oils, etc. The Ohio Oil Company. 306,851, renewed Oct. 3, 1953. O. G. July 21.
Gasoline, fuel oil, and motor lubricating oils, etc. The Ohio Oil Company. 306,854, renewed Oct. 3, 1953. O. G. July 21.
Lubricant, Water-soluble soap. The Haynes Manufacturing Co. 577,800, July 21; Serial No. 629,853.
Lubricants, Die, cutting lubricants, mold lubricants, etc. Flexidraw Company. 577,573, July 21; Serial No. 623,456, published Apr. 28, 1953.
Oil, Lubricating. Canfield Oil Company. 577,508, July 21; Serial No. 599,417, published Apr. 28, 1953.
Oils and greases, Lubricating. Canfield Oil Company. 577,702, July 21; Serial No. 637,756, published Apr. 28, 1953.
Oils and greases, Lubricating. Magie Bros., Incorporated. 577,607, July 21; Serial No. 628,113, published Apr. 28, 1953.
Oils, Motor fuel, lubricating oils, lubricating greases, etc. Producers Diamond Quality Oil & Gas Co. 302,432, renewed Apr. 18, 1953. O. G. July 21.
Petroleum wax composition. Moore & Munger. 577,634, July 21; Serial No. 631,213, published Apr. 21, 1953.
Petroleum wax composition. Moore & Munger. 577,637, July 21; Serial No. 631,562, published Apr. 28, 1953.
Petroleum waxes, Microcrystalline. Warwick Wax Co. Inc. 577,687, July 21; Serial No. 637,013, published Apr. 21, 1953.

## CLASS 16

Anti-skinning agents for paints, varnishes, and enamels. Nuodex Products Co., Inc. 577,643, July 21; Serial No. 631,947, published Apr. 28, 1953.
Coatings, Transparent water-resistant masonry sealer. Spray O Bond Company. 577,541, July 21; Serial No. 615,661, published May 5, 1953.
Enamels and paints. Marshall-Wells Company. 577,666, July 21; Serial No. 634,648, published 28, 1953.
Lacquers, paint in ready mixed form, paint enamels, etc. Commonwealth Engineering Corporation. 367,075, May 9, 1939. Republished July 21.
Paint, Alkyd resin rubber base. Superior Paint and Varnish Corporation. 577,581, July 21; Serial No. 624,375, published Apr. 28, 1953.
Paint enamels. Standard Varnish Works. 307,231, renewed Oct. 17, 1953. O. G. July 21.
Paint products. Frey-Yenkin Paint Company. 577,609, July 21; Serial No. 628,529, published Apr. 28, 1953.
Paint, Ready mixed. American-Marietta Company. 577,597, July 21; Serial No. 626,598, published Apr. 28, 1953.
Paint, Ready-mixed, varnishes, stains, etc. General Paint & Varnish Company Inc. 318,931, Nov. 6, 1934. Republished July 21.
Paints, B. West. 577,688, July 21; Serial No. 637,015, published Apr. 28, 1953.
Paints and primers, Architectural type; enamels; varnishes; etc. Fred'k A. Stresen-Reuter, Inc. 577,582, July 21; Serial No. 624,430, published Apr. 28, 1953.
Paints, Interior and exterior ready-mixed, enamels, and varnishes. Aldens, Inc. 577,816, July 21; Serial No. 642,119.
Paints, Paste. Benjamin Moore & Co. 577,630, July 21; Serial No. 631,016, published Apr. 28, 1953.
Stain finishes, stainwax wood finishes, penetrating wood sealers, etc. Minwax Company, Inc. 577,547, July 21; Serial No. 618,464, published Apr. 28, 1953.
Varnish, Floor. Higley Chemical Company. 310,638. Aug. 28, 1934. Republished July 21.

## CLASS 17

Leaf-tobacco. T. D. Luckett. 40,211, re-renewed Apr. 28, 1953. O. G. July 21.

## CLASS 18

Antacid tablets. Meyer Chemical Company. 577,579, July 21; Serial No. 624,097, published Apr. 28, 1953.
Antibiotic preparation. Chas. Pfizer & Co., Inc. 577,504, July 21; Serial No. 591,102, published May 5, 1953.
Antiseptic and disinfectant compounds. The Oakland Chemical Company. 40,998, re-renewed Aug. 25, 1953. O. G. July 21.
Cough syrup and cold tablets. H. Wong. 577,693, July 21; Serial No. 637,222, published Apr. 28, 1953.
Dyspepsia-tablets. United Drug Company. 40,019, re-renewed Mar. 31, 1953. O. G. July 21.
Enzyme products. F. Klee. 577,549, July 21; Serial No. 618,803, published Apr. 28, 1953.
Isonicotinic acid hydraxide. Simpson Laboratories, Inc. 577,710, July 21; Serial No. 638,216, published Apr. 28, 1953.
Liquid medicine. W. B. Ault. 577,782, July 21; Serial No. 614,127.
Medicinal lotion. E. E. Murray. 577,783, July 21; Serial No. 616,235.
Medicinal preparation. The Mara Laboratories, Inc. 577,678, July 21; Serial No. 635,839, published Apr. 28, 1953.
Medicinal preparation. The Wander Company. 577,650, July 21; Serial No. 633,399, published Apr. 21, 1953.
Parenteral solutions. Don Baxter, Inc. 577,699, July 21; Serial No. 637,422, published Apr. 21, 1953.
Plasma expander. Abbott Laboratories. 577,697, July 21; Serial No. 637,345, published Apr. 21, 1953.
Preparation for use in cardiotherapy. Lloyd Brothers, Pharmacists, Inc. 577,519, July 21; Serial No. 607,336, published June 3, 1952.
Sedative elixir. Meyer Chemical Company. 577,578, July 21; Serial No. 624,093, published Apr. 28, 1953.
Therapeutic chlorophyll and chlorophyll derivatives preparations. Rystan Company. 408,787, Aug. 29, 1944. Republished July 21, 1953.
Tonic intended for the relief of headache and nerve pains. Yeast-Vite (U. S. A.) Inc. 302,424, renewed Apr. 18, 1953. O. G. July 21.
Vitamin E capsule. Meyer Chemical Company. 577,577, July 21; Serial No. 624,094, published Apr. 28, 1953.
Water emulsifiable concentrate of insecticidal, germicidal and fungicidal solution. Sentco, Inc. 577,535, July 21; Serial No. 612,975, published May 5, 1953.

## CLASS 19

Bicycles. H. P. Snyder Manufacturing Company, Inc. 577,499, July 21; Serial No. 586,021, published May 5, 1953.

Boats, Inflatable, and inflatable floats. New York Rubber Corporation. 577,845, July 21; Serial No. 632,306, published May 5, 1953.
Brake cylinder repair kits and parts for hydraulic brake systems, Hydraulic. Southern Friction Materials Company. 577,502, July 21; Serial No. 589,278, published May 5, 1953.
Vehicles, Motorized four wheel. Mid-America Research Corporation. 577,720, July 21; Serial No. 638,545, published May 5, 1953.
Vehicles, Motor-propelled chair. G. A. Steven. 577,805, July 21; Serial No. 632,757.

CLASS 21

Air valves, Solenoid-operated. The Taylor-Winfield Corporation. 577,767, July 21; Serial No. 590,189.
Batteries, Storage. Noah's Ark Auto Accessories, Inc. 306,006, renewed Aug. 29, 1953. O. G. July 21.
Batteries, Storage. Vitalic Battery Company, Inc. 577,778, July 21; Serial No. 611,925.
Coil and mountings for use in lieu of or in conjunction with radio antenna. R. M. Keith, Jr. 577,574, July 21; Serial No. 623,549, published May 5, 1953.
Coils, Miscellaneous electric, and electric motors. Ritter Dental Manufacturing Company, Inc. 391,084, Oct. 21, 1941. Republished July 21.
Electric fire alarm systems, etc., Pressure-operated automatic. Globe Automatic Sprinkler Company. 305,863, renewed Aug. 29, 1953. O. G. July 21.
Electric generators and motors, transformers, induction regulators, etc. Maschinenfabrik Oerlikon. 577,787, July 21; Serial No. 618,750.
Electric motors and parts thereof. Grigsby-Grunow Company. 305,937, renewed Aug. 29, 1953. O. G. July 21.
Electric vacuum cleaners. Kingston Products Corporation. 577,804, July 21; Serial No. 630,601.
Electric vacuum cleaners and vacuum cleaner parts. Price Vacuum Stores, Inc. 577,583, July 21; Serial No. 624,500, published May 5, 1953.
Electrical and magnetized phonograph records, recording wire and recording tape. C. Schous Fabriker A/S. 577,700, July 21; Serial No. 637,523, published May 5, 1953.
Electrical disintegrators and mixers. Waring Products Corporation. 440,344, Aug. 24, 1948. Republished July 21.
Electrical horns. Jubilee Manufacturing Company. 577,801, July 21; Serial No. 629,898.
Electrical insulators, Molded. Boonton Rubber Manufacturing Company. 93,069, re-renewed Aug. 19, 1953. O. G. July 21.
Lamps, Fluorescent. Sunray Electric, Inc. 577,776, July 21; Serial No. 610,035.
Lamps, Fluorescent sign, and combinations of fluorescent lighting fixtures and fluorescent sign lamps. Duro-Test Corporation. 577,595, July 21; Serial No. 626,075, published May 5, 1953.
Lamp wiring kits, Portable. Monowatt Incorporated. 577,777, July 21; Serial No. 611,235.
Logarithmic attenuators. Kalbfell Laboratories, Inc. 577,871, July 21; Serial No. 635,041, published May 5, 1953.
Sound-recording tape. Minnesota Mining and Manufacturing Company. 577,696, July 21; Serial No. 637,319, published May 5, 1953.
Switching and controlling apparatus, Electrical, protective relays and parts thereof, etc. Allen-Bradley Company. 577,511, July 21; Serial No. 602,993, published July 22, 1952. (Consolidated certificate, Classes 21 and 26.)
Television receiving sets. The Jefferson Co., Inc. 577,798, July 21; Serial No. 628,109.
Voltage reducer insertable in electric lamp sockets. Crest Electric Mfg. Co. 577,770, July 21; Serial No. 599,931.

CLASS 22

Artificial bait. Brainerd Bait Co. 577,651, July 21; Serial No. 633,528, published May 5, 1953.
Bubble pipes. Bubble-O-Bill Corporation. 577,745, July 21; Serial No. 643,026, published May 5, 1953.
Dolls. Toycrafters. 577,495, July 21; Serial No. 584,093, published May 5, 1953.
Fish lures, Artificial. E. S. Scanlan. 577,743, July 21; Serial No. 642,507, published May 5, 1953.
Fishing lines. Cortland Line Company, Inc. 577,744, July 21; Serial No. 642,732, published May 5, 1953.
Fishing tackle. L. M. Davis. 577,730, July 21; Serial No. 640,674, published May 5, 1953.
Game, Scoring. R. C. Miller. 577,616, July 21; Serial No. 629,679, published May 5, 1953.
Kites. Hoffman Lion Mills Company, Incorporated. 577,605, July 21; Serial No. 627,880, published May 5, 1953.
Marionettes. L. B. Shiba. 577,698, July 21; Serial No. 637,404, published May 5, 1953.
Merry-go-round, Undulatory. C. E. Hurst. 577,733, July 21; Serial No. 639,567, published May 5, 1953.
Pitching shoes. Diamond Calk Horseshoe Co. 577,668–9, July 21; Serial Nos. 634,906–7, published May 5, 1953.
Table-tennis game apparatus, Collapsible. B. B. Girden. 577,811, July 21; Serial No. 640,156.
Toy blocks, Alphabetical. Adventure Toys. 577,737, July 21; Serial No. 640,029, published May 5, 1953.

CLASS 23

Autographic registers, paper holders and guides, ribbon holders and guides for typewriters and autographic registers. United Autographic Register Company. 93,137, re-renewed Aug 19, 1953. O. G. July 21.
Automatic wire straightening, feeding, and cutting machines and wire reels. Mettler Machine Tool, Inc. 577,635–6, July 21; Serial Nos. 631,246–7, published Apr. 21, 1953.
Ball pump adapted to inflate balloons and the like. G. B. Clark, Jr. 577,654, July 21; Serial No. 633,713, published Apr. 7, 1953.
Can openers. J. A. Cahill. 577,575, July 21; Serial No. 624,067, published Dec. 30, 1953.
Clam shell buckets. Jos. F. Klesler Company. 577,598, July 21; Serial No. 626,888, published Apr. 21, 1953.
Fire extinguishers and parts thereof, Hand operated. National Cylinder Gas Company. 577,491, July 21; Serial No. 579,048, published Dec. 30, 1952.
Flatware. Englishtown Cutlery, Ltd. 577,483, July 21; Serial No. 515,299, published Apr. 21, 1953.
Food handling machines and parts thereof and therefor. U. S. Slicing Machine Company, Inc. 577,501, July 21; Serial No. 588,338, published Apr. 7, 1953.
Grinding and polishing machines. Cameron Machine Company. 577,537, July 21; Serial No. 613,362, published Dec. 9, 1952.
Grinding mills and parts thereof. Hy-R-Speed, Incorporated. 577,486, July 21; Serial No. 549,805, published Apr. 14, 1953.
Handles for hammers, hatchets, etc., Wooden. Totem Distributing Co. 577,570, July 21; Serial No. 623,090, published Apr. 21, 1953.
Lawn mowers, Power-driven. F. W. Kurzweil. 577,563, July 21; Serial No. 622,442, published Dec. 30, 1952.
Long handled spoon. Modern Sales Company. 577,814, July 21; Serial No. 640,951.
Machine tool attachments. Fish-Schurman Corporation. 577,619, July 21; Serial No. 629,859, published Apr. 14, 1953.
Machine tools. Oerlikon Machine Tool Works, Buehrle & Co. 577,538, July 21; Serial No. 613,942, published Apr. 7, 1953.
Milling machines. National Engineering Company. 577,488, July 21; Serial No. 569,984, published Apr. 21, 1953.
Packaged set containing a long handled spoon and a matching cocktail pick or fork. Modern Sales Company. 577,815, July 21; Serial No. 640,952.
Packaged unit containing necessary structural repair and replacement parts for internal combustion engine carburetors, etc. Carter Carburetor Corporation. 577,500, July 21; Serial No. 586,955, published Apr. 7, 1953.
Potato shredding machine. M. Ross. 577,494, July 21; Serial No. 583,051, published Dec. 9, 1952.
Poultry picking machines and parts thereof, poultry washing machines, etc. Johnson Gordon Company. 577,626, July 21; Serial No. 630,537, published Dec. 30, 1952.
Power driven scaffolding. Spider Staging, Inc. 577,536, July 21; Serial No. 613,348, published Dec. 30, 1952.
Presses, Hydraulic and hydro-pneumatic, hydraulic accumulators, hydraulic die cushions, etc. American Steel Foundries. 577,604, July 21; Serial No. 627,730, published Apr. 21, 1953.
Printing machines. Multigraph Company. 306,791, renewed Sept. 26, 1953. O. G. July 21.
Printing, spirit duplicating, letter-opening and stamp-affixing machines. Block & Anderson, Limited. 577,590, July 21; Serial No. 626,974, published Apr. 21, 1953.
Pump barrels. United States Steel Company. 577,602, July 21; Serial No. 627,473, published May 5, 1953.
Pumps, centrifugal pumps, and sump pumps. Yeomans Brothers Company. 577,717, July 21; Serial No. 638,383, published Apr. 21, 1953.
Pumps, Centrifugal self-priming. The Jaeger Machine Company. 304,000, renewed June 13, 1953. O. G. July 21.
Pumps, Oil well. M. Steffenson. 577,780, July 21; Serial No. 618,558.
Saws and parts therefor, Power chain. Turbo-Matic Chain Saws Ltd. 577,711, July 21; Serial No. 638,227, published Apr. 21, 1953.
Screw-cutting dies, taps, etc. Greenfield Tap and Die Corporation. 147,320, Oct. 11, 1921. Amended. O. G. July 21.
Sewing machines, electric sewing machines, and parts thereof. Mid-State Wood Products Corporation. 577,620, July 21; Serial No. 630,090, published Dec. 16, 1952.
Sprayers, Power, weed control sprayers, crop and pest control sprayers, etc. Hurst Industries, Inc. 577,521, July 21; Serial No. 608,068, published Dec. 30, 1952.
Suction cleaning machines. The British Vacuum Cleaner & Engineering Co., Ltd. 303,222, renewed May 16, 1953. O. G. July 21.



Tools, Air, air- and gas-lift pumps, core drills, etc. Ingersoll-Rand Company. 577,554, July 21; Serial No. 620,731, published Apr. 7, 1953.
Tools, Oil well. Web Wilson Oil Tools, Incorporated. 577,627, July 21; Serial No. 630,640, published Apr. 21, 1953.
Typewriter attachments, etc. United Autographic Register Company. 304,840, renewed July 18, 1953. O. G. July 21.
Washing machines for use in washing milk and beverage bottle cases, etc. J. J. Bucchino. 577,523, July 21; Serial No. 608,698, published Dec. 30, 1952.

CLASS 26

Balances. E. Mettler. 577,644, July 21; Serial No. 632,125, published Apr. 28, 1953.
Barometers, Recording. Taylor Instrument Companies. 92,598, re-renewed July 15, 1953. O. G. July 21.
Blood diluting pipettes. American Hospital Supply Corporation. 577,561, July 21; Serial No. 622,191, published Mar. 10, 1953.
Card case containing a tape measure. M. I. Sheila. 577,629, July 21; Serial No. 630,913, published Mar. 10, 1953.
Case for carrying photographic camera and equipments, Leather bag. Service Manufacturing Company, Inc. 577,774, July 21; Serial No. 606,335.
Drafting instrument, Universal. M. M. Felgenberg. 577,679, July 21; Serial No. 634,975, published Apr. 28, 1953.
Eyeglasses, sunglasses, and sun visors. Lilly Dache, Inc. 577,586, July 21; Serial No. 625,197, published Apr. 28, 1953.
Indicating and recording instruments, Fluid flow, flow controllers, and totalizers or integrators. Flacher & Porter Company. 577,662, July 21; Serial No. 634,322, published Mar. 10, 1953.
Measuring tapes, Graduated steel. Master Rule Manufacturing Co., Inc. 577,657, July 21; Serial No. 633,940, published Mar. 10, 1953.
Meters and gauges and totalizers therefor, etc. Simplex Valve & Meter Company. 335,071, June 9, 1936. Republished July 21.
Optical goods. C. T. Takahashi. 577,660, July 21; Serial No. 634,127, published Mar. 10, 1953.
Oscilloscopes, magnetometers and signal generators. Laboratory for Electronics, Inc. 577,652, July 21; Serial No. 633,543, published Mar. 10, 1953.
Photographic lenses. Mycro Camera Co., Inc. 577,625, July 21; Serial No. 630,336, published Mar. 10, 1953.
Polarimeters, spectroscopes, and colorimeters. Adam Hilger, Limited. 303,120, renewed May 9, 1953. O. G. July 21.
Projector and viewer, Combined. The FR Corporation. 577,611, July 21; Serial No. 628,852, published Mar. 17, 1953.
Scale, Segment measuring. A. B. Belgard. 577,553, July 21; Serial No. 620,717, published Mar. 17, 1953.
Scales, Weighing. Continental Scale Corporation. 577,612, July 21; Serial No. 628,997, published Mar. 17, 1953.
Spectacles. Societe Industrielle de Lunetterie, S. A. R. L. 577,601, July 21; Serial No. 627,227, published Mar. 10, 1953.
Temperature responsive switches and parts thereof. Allen-Bradley Company. 577,511, July 21; Serial No. 629,141, published Jan. 6, 1953. (Consolidated certificate, Classes 21 and 26.)

CLASS 27

Clocks and parts thereof. Hamburg-Amerikanische Uhrenfabrik. 92,551, re-renewed July 15, 1953. O. G. July 21.

CLASS 20

Brooms, mops, scrubbing brushes, etc. United Buyers Corporation. 382,610, Nov. 5, 1940. Republished July 21.
Brooms, mops, scrubbing brushes, etc. United Buyers Corporation. 383,207, Nov. 26, 1940. Republished July 21.

CLASS 32

Beds, Folding, studio couches, mattresses, and bed springs. Automatic Bedding Corporation. 577,765, July 21; Serial No. 585,417.
Furniture. To-Day's House, Inc. 577,772, July 21; Serial No. 602,347.
Seats and mattresses and parts thereof, Resilient. The Seng Company. 303,253, renewed May 16, 1953. O. G. July 21.
Stools and chairs. Ajusto Equipment Co. 577,781, July 21; Serial No. 613,752.

CLASS 34

Greenhouse-ventilating apparatus. Lord and Burnham Company. 206,248, Nov. 24, 1925. Republished July 21.
Heaters, Domestic hot water. Williams Oil-O-Matic Heating Corporation. 304,965, July 25, 1933. Republished July 21.
Heating panels. Burnham Boiler Corporation. 418,944, Jan. 15, 1946. Republished July 21.

CLASS 35

Packing, Flax. Johns-Manville Corporation. 303,883, renewed June 13, 1953. O. G. July 21.
Tires and tubes, Vehicle rubber, and camelback material. Pacific Tire & Rubber Company. 577,558, July 21; Serial No. 621,163, published May 5, 1953.

CLASS 36

Harmonicas. Wm. Kratt Co. 577,797, July 21; Serial No. 628,945.

CLASS 37

Blotter, Paperless, rocker-shaped ink. A. Allen. 577,503, July 21; Serial No. 590,212, published Mar. 3, 1953.
Lettering guides and for materials used in lithographic printing. A. B. Dick Company. 577,529, July 21; Serial No. 610,423, published Feb. 17, 1953.
Paper board, butcher paper, corrugated paper rolls, etc. K. H. Landsberg. 577,539, July 21; Serial No. 614,444, published Feb. 17, 1953.
Paper, Bond. Rockwell-Barnes Company. 304,484, renewed July 11, 1953. O. G. July 21.
Paper, Coated. Springfield Coated Paper Corp. 577,623, July 21; Serial No. 630,226, published Feb. 24, 1953.
Paper, Coated drab. Standard Cap and Seal Corporation. 577,507, July 21; Serial No. 598,120, published Feb. 24, 1953.
Paper, Copy. Eastman Kodak Company. 577,661, July 21; Serial No. 634,189, published Mar. 3, 1953.
Paper covers. C. L. Rubinstein. 577,513, July 21; Serial No. 604,233, published Mar. 3, 1953.
Paper fasteners. Wilson Jones Company. 577,497, July 21; Serial No. 585,616, published Mar. 3, 1953.
Paper, Loose writing, and note book fillers. Western Tablet & Stationery Corporation. 577,484, July 21; Serial No. 526,320, published Feb. 17, 1953.
Paper, Writing. The Plymouth Paper Company, Inc. 305,470, renewed Aug. 15, 1953. O. G. July 21.
Paper, Writing and printing. Hampshire Paper Company. 301,385, Feb. 28, 1933. Republished July 21.
Papers, High-grade. Hampshire Paper Company. 59,475, Jan. 8, 1907. Republished July 21.
Pencils. Aktieselskabet H. E. Gosch & Co's Taendstikfabriker og Aktietaendstikfabriken Godthaab. 577,515, July 21; Serial No. 604,761, published Mar. 3, 1953.
Pencils, Lead. Blaisdell Pencil Company. 303,606, renewed May 30, 1953. O. G. July 21.
Pencils, Lead. Blaisdell Pencil Company. 303,568, renewed Aug. 22, 1953. O. G. July 21.
Pencils, Lead. Rootie Kazootie, Inc. 577,608, July 21; Serial No. 628,221, published Feb. 24, 1953.
Pencils, Mechanical. A. W. Faber-Castell Pencil Company, Inc. 577,482, July 21; Serial No. 504,346, published May 5, 1953.
Single sheet paper or cardboard shirt protectors. V. Akers. 577,551, July 21; Serial No. 620,183, published Mar. 3, 1953.
Tissue, Cleansing, and dual purpose tissue. The S. Kann Sons, Co. 577,624, July 21; Serial No. 630,273, published Mar. 3, 1953.
Toilet tissue, paper napkins, paper towels, etc. United Buyers Corporation. 380,743, Aug. 27, 1940. Republished July 21.
Tracing cloth and tracing paper. The Red Bridge Book Cloth Company, Limited. 303,572, renewed May 30, 1953. O. G. July 21.
Tracing cloth and tracing paper. The Red Bridge Book Cloth Company, Limited. 303,574–6, renewed May 30, 1953. O. G. July 21.
Wrapping and decorating material. Cellu-Craft Products Corporation. 577,525, July 21; Serial No. 609,228, published Apr. 28, 1953.
Wrapping sheet, Flexible multiple layer. Charles Dowd Box, Co., Inc. 577,552, July 21; Serial No. 620,200, published Feb. 17, 1953.

CLASS 38

Book, Apparel guide, stock book, and swatch book of clothing fashions. The Middlebade Company, Inc. 577,566, July 21; Serial No. 622,549, published May 5, 1953.
Books. Avon Publishing Co., Inc. 577,665, July 21; Serial No. 634,518, published May 5, 1953.
Books. Eugenics Publishing Company, Incorporated. 577,572, July 21; Serial No. 623,345, published Apr. 28, 1953.
Books. Fisherman Press, Inc. 577,655, July 21; Serial No. 633,761, published Apr. 28, 1953.
Books. Linton Publishing Company. 577,704, July 21; Serial No. 625,111.
Books, Comic. T. De Angelo. 577,714, July 21; Serial No. 638,286, published Apr. 28, 1953.
Calendars. Esquire, Inc. 577,592, July 21; Serial No. 625,726, published May 5, 1953.
Calendars and a section or feature in a periodical publication. Esquire, Inc. 577,593, July 21; Serial No. 625,727, published May 5, 1953.
Cartoons, Series of. Chicago Tribune-New York News Syndicate, Inc. 577,685, July 21; Serial No. 636,688, published May 5, 1953.
Charts, Sets of color. I. B. Jack. 577,679, July 21; Serial No. 635,968, published May 5, 1953.
Comic strip. H. Wishengrad. 577,721, July 21; Serial No. 638,621, published May 5, 1953.

Greeting cards. Buzza-Cardozo. 577,707, July 21; Serial No. 638,132, published May 5, 1953.
Greeting cards, printed greeting folders, printed seals, etc. Norcross, Inc. 577,632, July 21; Serial No. 631,119, published Apr. 28, 1953.
Imprinted reflective labels for identification purposes. Western Lithograph Company. 577,673, July 21; Serial No. 635,209, published Apr. 28, 1953.
Informational leaflets and descriptive brochures. International Standard Trading Corporation. 577,576, July 21; Serial No. 624,087, published Apr. 28, 1953.
Magazine. Hell-Coil Corporation. 577,704, July 21; Serial No. 637,823, published May 5, 1953.
Magazine feature. Meredith Publishing Company. 577,528, July 21; Serial No. 610,221, published May 5, 1953.
Magazine, Monthly. Macfadden Publications, Inc. 577,719, July 21; Serial No. 638,491, published Apr. 28, 1953.
Magazines, Comic cartoon. I. C. Publishing Co., Inc. 577,548, July 21; Serial No. 618,795, published Apr. 28, 1953.
Newspaper column or feature. United Newspapers Magazine Corporation. 577,656, July 21; Serial No. 633,804, published Apr. 28, 1953.
Newspaper, Daily. Hearst Publishing Company, Inc. 577,674, July 21; Serial No. 635,224, published Apr. 28, 1953.
Periodical or magazine. Draper Company. 93,525, renewed Sept. 23, 1953. O. G. July 21.
Periodical, Semi-monthly. Scene Publishing Company, Inc. 577,532, July 21; Serial No. 611,311, published May 5, 1953.
Periodical, Weekly. Dupuis Sons, & Co. Inc. 577,677, July 21; Serial No. 635,821, published May 5, 1953.
Periodicals. Broadcasting Publications, Inc. 577,672, July 21; Serial No. 635,171, published May 5, 1953.
Periodicals. Welcome Wagon Service Company, Inc. 439,421, June 22, 1948. Republished July 21, 1953.
Photographic prints, Processed color. Chromart Laboratories. 442,058, June 21, 1949. Republished July 21.
Printed folders. Welcome Wagon Service Company, Inc. 442,117, Feb. 22, 1949. Republished July 21.
Printed gummed stamps. Nebraska State Council of Ladies Auxiliaries of the United Brotherhood of Carpenters and Joiners of America. 577,631, July 21; Serial No. 631,117, published Apr. 28, 1953.
Printed music and printed sheets containing music notes. Titus Bros. & Sons Music Company-Publisher. 577,524, July 21; Serial No. 608,903, published May 5, 1953.
Publication, Periodic. Huntington Laboratories, Inc. 577,680, July 21; Serial No. 636,014, published May 5, 1953.
Publications. Solar Steel Corporation. 577,716, July 21; Serial No. 638,326, published Apr. 28, 1953.
Reproductions of printed and pictorial matter. C. H. Smith. 577,564–5, July 21; Serial Nos. 622,464–5, published May 5, 1953.

CLASS 39

Apparel, Women's. Seamprufe Incorporated. 577,692, July 21; Serial No. 637,191, published Apr. 28, 1953.
Boots and shoes, etc., Rubber. Mishawaka Woolen Manufacturing Co. 91,362, re-renewed Apr. 29, 1953. O. G. July 21.
Brassières. Munsingwear, Inc. 577,675, July 21; Serial No. 635,230, published Apr. 28, 1953.
Coats and jackets, Ladies'. John Edelman & Sons. 305,600, renewed Aug. 22, 1953. O. G. July 21.
Coats and suits, Girls' juniors', misses', little women's and ladies'. Siegel Bros. Kiki Maid Koats Inc. 345,176, Apr. 20, 1937. Republished July 21.
Cravats, neckties, mufflers, etc. Cutter Cravat, Inc. 577,780, July 21; Serial No. 613,164.
Dresses, Girls' confirmation and party, and christening sets. Louise Frocks. 577,713, July 21; Serial No. 618,264, published Apr. 28, 1953.
Dresses and coats, Ladies' and children's. S. J. Goldfarb. 388,766, July 8, 1941. Republished July 21.
Dresses, Women's and misses'. R. Briggs. 577,610, July 21; Serial No. 628,594, published Apr. 28, 1953.
Footwear. Mishawaka Rubber and Woolen Manufacturing Company. 577,766, July 21; Serial No. 589,797.
Foundation garments, Women's. Donel Foundations, Inc. 577,764, July 21; Serial No. 582,128.
Girdle. I. B. Kleinert Rubber Company. 577,788, July 21; Serial No. 618,856.
Gloves. The Boss Manufacturing Company. 577,628, July 21; Serial No. 630,699, published Apr. 28, 1953.
Gloves and mittens. The Boss Manufarturing Company. 577,691, July 21; Serial No. 637,160, published Apr. 28, 1953.
Handkerchiefs. Ashear Bros., Inc. 577,789, July 21; Serial No. 619,065.
Hats, Ladies'. W. K. Marks. 305,550, renewed Aug. 22, 1953. O. G. July 21.
Hosiery. Vanity Fair Silk Mills. 306,697, renewed Sept. 26, 1953. O. G. July 21.
Hosiery, Women's and misses'. Carson, Pirie, Scott & Co. 303,408, renewed May 23, 1953. O. G. July 21.
Overalls. Levi Strauss & Company. 577,490, July 21; Serial No. 578,119, published May 5, 1953.
Overalls and play suits. Pool Manufacturing Company. 305,642, renewed Aug. 22, 1953. O. G. July 21.
Pajamas, Children's, boys' union suits, and girls' union suits. Boston Knitting Mills, Inc. 306,293, renewed Sept. 12, 1953. O. G. July 21.
Pajamas, Women's, misses' and girls'. Laskin Brothers, Inc. 577,810, July 21; Serial No. 638,088.
Panties, Baby, baby bloomers, creepers. Alamac Knitting Mills, Inc. 577,769, July 21; Serial No. 599,736.
Shoes. Chippewa Shoe Manufacturing Company. 302,586, renewed Apr. 25, 1953. O. G. July 21.
Skirts, dresses, housecoats, etc. Sun Fashions of Hawaii. 577,768, July 21; Serial No. 594,594.
Suits, coats, overcoats, etc., Men's and boys'. Hart, Schaffner & Marx. 396,969, Aug. 11, 1942. Republished July 21.
Suits, coats, slacks, etc., Men's. A. Sagner's Son. 577,809, July 21; Serial No. 634,921.
Wearing apparel. P. H. Hanes Knitting Company. 306,153, renewed Sept. 12, 1953. O. G. July 21.
Wearing apparel. P. H. Hanes Knitting Company. 306,618, renewed Sept. 26, 1953. O. G. July 21.

CLASS 40

Binding tape. Clemtex Mfg. Co., Inc. 577,571, July 21; Serial No. 623,237, published Mar. 24, 1953.
Bob pins. T. Hogberg. 577,790, July 21; Serial No. 621,405.
Clasps utilized as substitutes for buttons. Kandell & Marcus, Inc. 577,496, July 21; Serial No. 585,172, published Apr. 14, 1953.
Closures and fasteners for wearing apparel, crochet hooks and crochet needles, etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik. 577,530, July 21; Serial No. 610,565, published Mar. 24, 1953.
Closures and fasteners for wearing apparel, crochet hooks and crochet needles, etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik. 577,531, July 21; Serial No. 610,566, published Apr. 14, 1953.
Combs and bobby pins, and fans for hand use. Stanley Home Products, Inc. 577,514, July 21; Serial No. 604,401, published Apr. 7, 1953.
Hair retainers or combs. Diadem, Inc. 577,402, July 21; Serial No. 580,928, published Mar. 24, 1953.

CLASS 42

Curtains, Window. S. Gottesman. 577,727, July 21; Serial No. 639,272, published Apr. 28, 1953.
Fabrics. Joseph Bancroft & Sons Co. 577,617, July 21; Serial No. 629,760, published Apr. 28, 1953.
Fabrics. Joseph Bancroft & Sons Co. 577,618, July 21; Serial No. 629,763, published Apr. 28, 1953.
Fabrics. William Skinner & Sons. 577,732, July 21; Serial No. 639,541, published Apr. 28, 1953.
Fabrics, Decorative, upholstery, and clothing. Greenhut Fabrics, Inc. 577,589–90, July 21; Serial Nos. 625,592–3, published Apr. 28, 1953.
Fabrics, Textile. Comptoir des Textiles Artificiels. 577,588, July 21; Serial No. 625,523, published Apr. 28, 1953.
Fabrics, Textile. David Crystal, Inc. 577,703, July 21; Serial No. 637,760, published Apr. 28, 1953.
Fabrics, Textile. French Fabrics Co. 577,722, July 21; Serial No. 638,843, published Apr. 28, 1953.
Fabrics, Textile. L. J. Murray. 577,723, July 21; Serial No. 638,888, published Apr. 28, 1953.
Fabrics, Textile. Rochambeau Worsted Company. 577,621, July 21; Serial No. 630,151, published Apr. 28, 1953.
Fabrics, Textile. Rutger Fabrics Corp. 577,614, July 21; Serial No. 629,461, published Apr. 28, 1953.
Fabrics, Woolen. Virginia Woolen Company. 577,659, July 21; Serial No. 634,063, published Apr. 28, 1953.
Heat sealed vinyl plastic sheet material. Fine Art Pillow & Specialties Co. 577,795, July 21; Serial No. 623,588.
Interlining, Hair cloth. Andrew Y. Mirhle & Sons Company. 577,728, July 21; Serial No. 639,283, published Apr. 28, 1953.
Netting, Fish. The Linen Thread Co., Inc. 577,613, July 21; Serial No. 629,305, published Apr. 28, 1953.
Piece goods. Hamilton Textile Mills, Inc. 577,591, July 21; Serial No. 625,601, published Feb. 24, 1953.
Piece goods. Oriental Textiles Incorporated. 577,729–30, July 21; Serial Nos. 639,285–6, published Apr. 28, 1953.
Piece goods. Siegel Bros. Kiki Maid Koats Inc. 340,971, Nov. 24, 1936. Republished July 21.
Piece goods, Cotton. J. P. Stevens & Co., Inc. 577,708, July 21; Serial No. 638,166, published Apr. 28, 1953.
Piece goods, Hand woven woolen tweed. D. A. Smith & Co. 577,725, July 21; Serial No. 639,084, published Apr. 28, 1953.
Piece goods, Irish linen, table cloths, napkins, etc. The Irish Linen Guild. 577,817, July 21; Serial No. 615,556.
Piece goods, Silk. H. R. Mallinson & Co., Inc. 306,753, renewed Sept. 26, 1953. O. G. July 21.
Piece goods, Woolen. Forstmann Woolen Co. 577,726, July 21; Serial No. 639,219, published Apr. 28, 1953.
Piece goods, Woolen. The Warren Woolen Co. 577,731, July 21; Serial No. 639,351, published Apr. 28, 1953.
Quilted mattress pads and protectors. National Sure-Fit Quilting Co., Inc. 577,790, July 21; Serial No. 626,635.
Satteens, Bleached, and other cotton piece goods. Neuss, Hesslein & Co., Inc. 306,953, renewed Oct. 10, 1953. O. G. July 21.



CLASS 43

Yarns. Bernhard Ulmann & Co. 93,782, re-renewed Oct. 14, 1953. O. G. July 21.

CLASS 44

Filling material for the manufacture of permanent fillings and for the construction of crowns, facings, and inlays in dentistry. Dental Fillings Limited. 577,569, July 21; Serial No. 622,814, published May 5, 1953.

CLASS 45

Mineral waters. Schweppes, Limited. 143,741, June 7, 1921. Republished July 21.
Mineral waters. Schweppes, Limited. 144,921, July 19, 1921. Republished July 21.
Soft drinks, Non-alcoholic, non-cereal, maltless, and syrup. T. J. Moore. 577,799, July 21; Serial No. 629,312.
Tonic malt beverage, Non-alcoholic. J. E. Rosenfeld. 92,718, re-renewed July 22, 1953. O. G. July 21.

CLASS 46

Alfalfa with molasses, Chopped. Kaufmann Producta Co. 577,506, July 21; Serial No. 597,961, published Apr. 21, 1953.
Apples, Fresh. C. M. Holtzinger Fruit Co. 213,944, June 8, 1926. Republished July 21.
Avocados, Fresh. E. Johnston. 577,580, July 21; Serial No. 624,137, published May 5, 1953.
Baking powder and baking soda. R. B. Davis Company. 304,098, renewed June 20, 1953. O. G. July 21.
Candies, Chocolate. De Erve H. de Jong N. V. 577,534, July 21; Serial No. 612,851, published May 5, 1953.
Candies, Coffee flavored. Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken. 304,228, renewed June 27, 1953. O. G. July 21.
Canned dog food. UBC Distributors, Incorporated. 426,154, Dec. 17, 1946. Republished July 21.
Canned fruit. Kings Food Products. 577,784, July 21; Serial No. 617,405.
Canned fruits and vegetables, preserved fruits, jams, etc. The Morey Mercantile Company. 91,364, re-renewed Apr. 29, 1953. O. G. July 21.
Canned fruits, canned berries, canned vegetables, etc. United Buyers Corporation. 382,738, Nov. 12, 1940. Republished July 21.
Canned goods. El Chico Cafe. 577,690, July 21; Serial No. 637,099, published May 5, 1953.
Canned ham. Carl Larrsons Slakteri AB. 577,812, July 21; Serial No. 640,248.
Canned olive oil, olive oil packed in tins and glass containers, olive oil and vegetable oil compounds, etc. L. Musco. 577,485, July 21; Serial No. 549,082, published Apr. 28, 1953.
Canned orange juice, canned grapefruit juice, canned tomato sauce. Orange County Canners, Inc. 305,868, renewed Aug. 29, 1953. O. G. July 21.
Canned, pickled, salted, smoked, and preserved fish, canned shellfish, etc. Brandao & Companhia, Limitada. 577,562, July 21; Serial No. 622,197, published May 5, 1953.
Canned salmon. Fidalgo Island Packing Co. 93,435, re-renewed Sept. 16, 1953. O. G. July 21.
Canned vegetables, and canned vegetable juices. D. E. Winebrenner Company, Inc. 577,540, July 21; Serial No. 615,427, published May 5, 1953.
Canned vegetables, prepared mustard, coffee, etc. The Copps Co. 167,092, Apr. 24, 1923. Republished July 21.
Cereal, Whole wheat. Roman Meal Company. 307,220, renewed Oct. 17, 1953. O. G. July 21.
Cheese. A. Giurlani & Brother. 119,438, Nov. 20, 1917. Republished July 21.
Chocolate flavored syrup. Bowey's Inc. 305,678, renewed Aug. 22, 1953. O. G. July 21.
Cocoa. C. J. Van Houten & Zoon. 304,282, renewed June 27, 1953. O. G. July 21.
Coffee. J. A. Folger & Company. 93,631, re-renewed Oct. 7, 1953. O. G. July 21.
Coffee. Leon Taffae Co., Inc. 577,718, July 21; Serial No. 638,490, published Apr. 28, 1953.
Feed, Poultry. Albers Milling Company. 577,509, July 21; Serial No. 601,859, published May 5, 1953.
Feed, Poultry. Consolidated Products Company. 577,550, July 21; Serial No. 618,845, published May 5, 1953.
Flour, Plain and self rising wheat, poultry feeds, dairy feeds, etc. Dixie-Portland Flour Co. 577,487, July 21; Serial No. 565,175, published Apr. 28, 1953.
Flour, Wheat. Wabasha Roller Mill Company. 170,806, July 24, 1923. Republished July 21.
Food flavoring extracts, spices, molasses, etc. The Copps Company. 194,603, Feb. 3, 1925. Republished July 21.
Food formula, Liquid. Wyeth Incorporated. 577,550, July 21; Serial No. 621,297, published May 5, 1953.
Food products, Dietary. Diet Foods, Inc. 577,615, July 21; Serial No. 629,655, published May 5, 1953.
Fruit, Fresh. T. F. Nevins. 91,506, re-renewed May 6, 1953. O. G. July 21.
Fruit products. H. F. Byrd, Inc. 577,533, July 21; Serial No. 612,846, published Apr. 28, 1953.
Ice cream, French. Richman Ice Cream Co. 577,596, July 21; Serial No. 626,264, published May 5, 1953.
Jams, jellies, crushed, broken, and whole fresh fruits, etc. Allied Fruit & Extract Co., Inc. 577,489, July 21; Serial No. 570,399, published May 5, 1953.
Meat. Cube Steak Machine Co. 574,785, May 19, 1953. Corrected. O. G. July 21.
Nuts, Salted and unsalted. E. F. Kemp Corp. 577,735, July 21; Serial No. 639,937, published May 5, 1953.
Nuts, Salted and unsalted, and peanut butter spread. E. F. Kemp Corp. 577,734, July 21; Serial No. 639,936, published May 5, 1953.
Nuts, Salted and unsalted, and peanut butter spread. E. F. Kemp Corp. 577,736, July 21; Serial No. 639,938, published May 5, 1953.
Olive oil, hearts of artichokes, and filet of anchovies. A. Giurlani & Bro. 390,267, Sept. 16, 1941. Republished July 21.
Oranges, Fresh. Select Citrus Growers, Inc. 577,803, July 21; Serial No. 630,352.
Pickles, pickle relish, and peppers. C. J. Weidner. 577,802, July 21; Serial No. 630,248.
Poultry, turkey, and stock feeds. The Page Milling Company. 303,051, renewed May 9, 1953. O. G. July 21.
Seed-oils and seed products. The Procter & Gamble Co. 30,763, re-renewed Feb. 10, 1953. O. G. July 21.
Shortening, Vegetable. Lever Brothers Company. 306,900, renewed Oct. 3, 1953. O. G. July 21.
Syrup, Table. W. B. Roddenbery Co. Inc. 577,705, July 21; Serial No. 637,930, published Apr. 28, 1953.
Vegetables, Fresh. Calbert Shippers, Inc. 577,741, July 21; Serial No. 641,604, published Apr. 28, 1953.
Vegetables, Fresh. Holland District Asparagus Growers Association. 333,117, Mar. 10, 1936. Republished July 21, 1953.
Vegetables, Fresh. Roll Packing House. 577,742, July 21; Serial No. 641,862, published Apr. 28, 1953.

CLASS 47

Vermouth. Dennis & Huppert Inc. 577,791, July 21; Serial No. 622,813.
Wines. E. & J. Gallo Winery. 444,756, Mar. 24, 1953. Republished July 21.
Wines. Jose Lopez de Carrizosa y Martel Marques del Merito. 304,257, renewed June 27, 1953. O. G. July 21.
Wines. S. P. A. Motta. 577,761, July 21; Serial No 570,867.

CLASS 48

Cereal flakes used in the preparation of beer. J. R. Short Milling Company. 577,779, July 21; Serial No. 612,277.
Malt beverage. W. C. Braun. 304,778, renewed July 18, 1953. O. G. July 21.
Malt beverages. American Brewery, Inc. 307,643, renewed Oct. 31, 1953. O. G. July 21.

CLASS 49

Alcoholic liqueurs and cordials. S. P. A. Motta. 577,762, July 21; Serial No. 570,868.
Alcoholic rhubarb beverage. S. R. L. Rabarzucca. 577,773, July 21; Serial No. 604,388.
Manhattan and martini cocktails. Federal Liquors Ltd. 577,763, July 21; Serial No. 575,510.
Potable spirits, whiskey and liquors. Distillers Corporation Limited. 304,745, renewed July 18, 1953. O. G. July 21.
Whiskey. A. Giurlani & Bro. 386,969, Apr. 29, 1941. Republished July 21.
Whiskey, Scotch. A. & A. Crawford, Limited. 577,807, July 21; Serial No. 633,144.

CLASS 50

Bottle closures. Standard Cap and Seal Corporation. 426,552, Dec. 31, 1946. Republished July 21.
Hangers, Clothes. Sur-Grip, Inc. 577,771, July 21; Serial No. 601,146.
Paper closures, Laminated. Standard Cap and Seal Corporation. 423,747, Sept. 10, 1946. Republished July 21.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. National Oil Products Company. 303,598, renewed May 30, 1953. O. G. July 21.
Bath oil and cologne. Swiss Importing Co., Inc. 361,202, Oct. 11, 1938. Republished July 21.
Face powder. F. N. Lewis. 130,201, Apr. 13, 1920. Republished July 21.
Lipstirk and lipstick cases containing lipstick. Gourielli, Inc. 577,520, July 21; Serial No. 607,498, published Apr. 21, 1953.
Lotion, Eye. F. N. Lewis. 123,463, Nov. 12, 1918. Republished July 21.
Talcum powder. F. N. Lewis. 125,461, May 20, 1919. Republished July 21.
Toilet soap, shaving soap sticks, shaving soap cream. Pinaud, Incorporated. 307,066, renewed Oct. 10, 1953. O. G. July 21.
Toothpaste. Extraction & Chemical Company Inc. 577,498, July 21; Serial No. 585,920, published Apr. 28, 1953.
Tooth paste. Society of Chemical Industry in Basle. 301,633, renewed Mar. 7, 1953. O. G. July 21.

CLASS 52

Cleaner, Drain pipe, lye, bluing, etc. United Buyers Corporation. 381,033, Sept. 10, 1940. Republished July 21.

Cleaner, Mechanic grease. A. Maher & Son. 577,681, July 21; Serial No. 636,051, published Apr. 28, 1953.

Cleaner, Wall paper. The Absorene Manufacturing Company. 577,694, July 21; Serial No. 637,228, published Apr. 28, 1953.

Cleaning solutions and solvents. Harry H. Rogers Co. Inc. 577,642, July 21; Serial No. 631,802, published May 5, 1953.

Cleansing and detergent compound. Calgon, Incorporated. 577,683, July 21; Serial No. 636,271, published May 5, 1953.

Composition for cleaning and etching aluminum. Enthone, Incorporated. 577,709, July 21; Serial No. 638,196, published May 5, 1953.

Dishwashing compound. Economics Laboratory, Inc. 577,526, July 21; Serial No. 609,542, published May 5, 1953.

Fluid mixture for use in hydraulic power transmission systems, etc. Puritan Company, Incorporated. 577,505, July 21; Serial No. 595,852, published Apr. 17, 1951.

Liquid preparation for flushing and cleaning radiators, liquid preparation for dissolving grease and dirt, etc. U S Chemical & Supply Co. 577,493, July 21; Serial No. 582,870, published Dec. 18, 1951.

Paint products, namely, non-inflammable paint and varnish remover. De Soto Paint & Varnish Co. 577,516, July 21; Serial No. 605,638, published Apr. 28, 1953.

Preparations for removing paint and other coatings from metal and other surfaces. Ball Chemical Company. 91,451, re-renewed May 6, 1953. O. G. July 21.

Shampoo, Hair and scalp. The Denver Chemical Manufacturing Company. 577,646, July 21; Serial No. 632,877, published Apr. 28, 1953.

Soap. Mem Company, Inc. 577,584, July 21; Serial No. 624,554, published Apr. 28, 1953.

Soap and soap preparations, wet cleaning soaps and soap preparations, etc. Caled Products Company, Inc. 577,701, July 21; Serial No. 637,754, published Apr. 28, 1953.

Soap, Perfumed. H. Bronnley & Co., Limited. 91,315. re-renewed Apr. 29, 1953. O. G. July 21.

Soap, Toilet. Colgate-Palmolive-Peet Company. 577,695, July 21; Serial No. 637,267, published Apr. 28, 1953.

Soaps, Toilet, laundry soap, soap flakes, etc. United Buyers Corporation. 395,538, June 2, 1942. Republished July 21.

Sweeping compound, Floor. Johns-Manville Corporation. 577,522, July 21; Serial No. 608,315, published Apr. 28, 1953.

CLASS 100

Organizing of chapters in a national collegiate fraternity and maintaining membership therein. Kappa Signia Fraternity. 577,760, July 21; Serial No. 620,605, published Apr. 28, 1953.

Research in the fields of metallurgy and mineralogy. K. Schaffer, Jr. 577,747, July 21; Serial No. 611,109, published Apr. 28, 1953.

Technical services rendered to industry in the testing of materials, etc. Monsanto Chemical Company. 577,746, July 21; Serial No. 572,510, published May 5, 1953.

CLASS 102

Underwriting of insurance risks. Allstate Insurance Company. 577,757, July 21; Serial No. 626,132, published Apr. 28, 1953.

CLASS 103

Dry cleaning of fabrics. Union Oil Company of California. 577,759, July 21; Serial No. 622,872, published May 5, 1953.

Gasoline filling station services. F. C. Lind. 577,758, July 21; Serial No. 630,420, published Apr. 28, 1953.

CLASS 106

Dyeing and finishing fabrics. Hull Dye Works. 577,753, July 21; Serial No. 632,939, published Apr. 28, 1953.

Engraving, etching and preparing by related processes printing plates for others, etc. McCall Corporation. 577,749, July 21; Serial No. 615,840, published May 5, 1953.

Finishing of textile fabrics or the like. United Merchants and Manufacturers, Inc. 577,755, July 21; Serial No. 635,106, published Apr. 28, 1953.

Finishing of textile fabrics or the like. United Merchants and Manufacturers, Inc. 577,756, July 21; Serial No. 635,204, published Apr. 28, 1953.

Treating dyed acetate fabrics of others. Triangle Finishing Corp. 577,748, July 21; Serial No. 611,385, published Apr. 28, 1953.

CLASS 107

Entertainment service. Lewis & Clark, Inc. 577,752, July 21; Serial No. 631,743, published Apr. 28, 1953.

Entertainment services. M. M. Jacobs. 577,754, July 21; Serial No. 634,471, published May 5, 1953.

Instructing, in the field of religion, philosophy and metaphysics. The American School of Metaphysics. 577,750, July 21; Serial No. 622,916, published Apr. 28, 1953.

Providing entertainment services. M. T. Mills. 577,751, July 21; Serial No. 632,094, published May 5, 1953.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 21ST DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aircraft Marine Products, Inc., assignee: *See*—
Watts, William S.

Hursh, Samuel R., Bala Cynwyd, and C. J. Reigh, Altoona, Pa.; said Reigh assignor to said Hursh. Ballast tamping apparatus. Re. 23,687, July 21.

Reigh, Clarence J.: *See*—
Hursh, Samuel R., and Reigh.

Watts, William S., Roselle, assignor to Aircraft Marine Products, Inc., Elizabeth, N. J. Electrical connector. Re. 23,688, July 21.

# LIST OF DESIGN PATENTEES

Altemiller, Arthur D., Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio. Combination popcorn warming and display cabinet. 170,040, July 21.

Ball, Percy B., North Attleboro, Mass., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. 170,041, July 21.

Bard, Ia L.: *See*—
Bard, Melvin A. and I. L.

Beckman Instruments, Inc., assignee: *See*—
Petterson, Thorleif H.

Bard, Melvin A. and I. L., Mountain View, Calif. Hat box. 170,042, July 21.

Bluhm, Louis, New York, N. Y. Textile fabric. 170,043, July 21.

Bluhm, Louis, New York, N. Y. Textile fabric. 170,044, July 21.

Borowitz, David, Chicago, Ill. Electric lamp base. 170,045, July 21.

Bradburd, Ervin M.: *See*—
Silver, Martin, Bradburd, and Lewthwaite.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,046, July 21.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,047, July 21.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,048, July 21.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,049, July 21.

Colm, Jack, New York, N. Y. Teething ring or similar article. 170,050, July 21.

Colm, Jack, New York, N. Y. Teething ring or similar article. 170,051, July 21.

Federal Telecommunication Laboratories, Inc., assignee, *See*—
Silver, Martin, Bradburd, and Lewthwaite.

Goss, Isabel, Lawndale, Calif. Rocking horse. 170,052, July 21.

Hall, Frank G., Chicago, Ill. Hairpin. 170,053, July 21.

Hat Corporation of America, assignee: *See*—
Maxwell, Paul M., and Wiach.

Hausfeld, Betty A., Loveland, and E. M. and J. J. Marx, Cincinnati, assignors to So-Lo Works Incorporated, Loveland, Ohio. Woman's overshoe. 170,054, July 21.

Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire. 170,055, July 21.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Earle W.

Helander, Lillian V. M., assignor to The International Silver Company, Meriden, Conn. Spoon or other article of flatware. 170,056, July 21.

Hercules Steel Products Corporation, assignee: *See*—
Altemiller, Arthur D.

International Silver Company, The, assignee: *See*—
Helander, Lillian V. M.

Jenkins, Howard M., Jr., assignor to Van Auken, Inc., Detroit, Mich. Wheel cover. 170,057, July 21.

Kretzer, Sidney D., St. Louis, Mo. Lightning demonstrator. 170,058, July 21.

Lang, John H., Detroit, Mich. Vehicle seat. 170,059, July 21.

Lang, John H., Detroit, Mich. Vehicle seat. 170,060, July 21.

Lewthwaite, Raymond B.: *See*—
Silver, Martin, Bradburd, and Lewthwaite.

Marx, Evelyn M.: *See*—
Hausfeld, Betty A., and E. M. and J. J. Marx.

Marx, Joe J.: *See*—
Hausfeld, Betty A., and E. M. and J. J. Marx.

Maxwell, Paul M., Milton, and K. M. Wiach, New York, N. Y., assignors to Hat Corporation of America, Norwalk, Conn. Hat. 170,061, July 21.

Mellstrup, Herbert E., Los Angeles, Calif. Doughnut. 170,062, July 21.

Neumann, Vera, Ossining, N. Y. Scarf. 170,063, July 21.

Park, Malcolm S., Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine frame. 170,064, July 21.

Petterson, Thorleif H., Pasadena, assignor to Beckman Instruments, Inc., South Pasadena, Calif. Housing for scientific instruments. 170,065, July 21.

Raymond, Arthur, assignor of one-half to K. E. Schultx, Seattle, Wash. Shuffleboard attachment. 170,066, July 21.

Sasieni, Abraham A., Edgware, assignor to Sasieni Ltd., London, England. Pipe stem. 170,067, July 21.

Sasieni Ltd., assignee: *See*—
Sasieni, Abraham A.

Schimmel, Madalyn M., Los Angeles, Calif. Shaped textile fabric. 170,068, July 21.

Schultx, K. E., assignee: *See*—
Raymond, Arthur.

Sheldon, Charles W., Lancaster County, Pa. Desk clock. 170,069, July 21.

Silver, Martin, and E. M. Bradburd, Fairlawn, and R. B. Lewthwaite, River Edge, assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Television broadcast transmitter. 170,070, July 21.

Singer Manufacturing Company, The, assignee: *See*—
Park, Malcolm S.

So-Lo Works Incorporated, assignee: *See*—
Hausfeld, Betty A., and E. M. and J. J. Marx.

Stiffel Company, The, assignee: *See*—
Cole, Edwin I.

Van Auken, Inc., assignee: *See*—
Jenkins, Howard M., Jr.

Vernon, Roy J., Minneapolis, Minn. Napkin or similar article. 170,071, July 21.

Wallace, R., & Sons Manufacturing Company, assignee: *See*—
Ball, Percy B.

Weber, Grabel B., Chicago, Ill., assignor to White Castle System, Inc., Columbus, Ohio. Cap. 170,072, July 21.

White Castle System, Inc., assignee: *See*—
Weber, Grabel B.

Wiach, Klari M.: *See*—
Maxwell, Paul M., and Wiach.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 21ST DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, Walter P., Madison, N. J. Extensible brush and container therefor. 2,645,803, July 21.

Abrahamson, Charles M., Aurora, Ill., assignor to All-Steel Equipment Inc. Desk top construction. 2,646,325, July 21.

Abrahamson, Charles M., and K. P. Grube, Aurora, Ill., assignors to All-Steel Equipment Inc. Sliding drawer construction. 2,646,333, July 21.

Accessory Makers, assignee: *See*—
Fezzey, Chester T.

Ackerman, Edward, Hawthorne, A. De Feo, Paterson, and W. H. Francisco, Jr., Bloomfield, N. J., assignors to Curtiss-Wright Corporation. Aftercooler construction. 2,646,027, July 21.

Ackermann, Franz: *See*—
Zweifel, Hans-Heinl, and Ackermann.

Acme Shear Company, The, assignee: *See*—
Sejman, Edmund L., and Lorenzo.

Adams, Cecil E., assignor to The Denison Engineering Company, Columbus, Ohio. Flow control valve. 2,646,078, July 21.

Ager, Drez, Miami, Fla. Roof gutter. 2,646,011, July 21.

Agosti, Dora, Zurich, Switzerland. Massage device. 2,646,039, July 21.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Arthur, Jett C., Jr., and Hogan.

Aircraft-Marine Products Inc., assignee: *See*—
Pollock, S. Wilson.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Hirtreiter, Walter J.
Wood, William W., Jr.

Air Reduction Company, Incorporated, assignee: *See*—
Gilroy, John, and Wiese.
Kuntz, Wellington W., Jr.

Aitcheson, Thomas G., Kenmore, N. Y., assignor to American Optical Company, Southbridge, Mass. Adjustment mechanism for microscopes. 2,645,972, July 21.

Aktiebolaget Atlas Diesel, assignee: *See*—
Munck af Rosenschöld, John R.

Aktiebolaget Elektrolux, assignee: *See*—
Backstrom, Sigurd M.

Aktiengesellschaft de Eisen-und Stahlwerke, vormals Georg Fischer, assignee: *See*—
Von Zelewsky, Ottomar.

Albrecht, Robert, assignor, by mesne assignments, to Strong Cobb & Company, Inc., Cleveland, Ohio. Tablet hardness testing machine. 2,645,936, July 21.

Alford, Andrew, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Broad band bidirectional antenna. 2,646,505, July 21.

All-Steel Equipment Inc., assignee: *See*—
Abrahamson, Charles M.
Abrahamson, Charles M., and Grube.
Saaf, Frits A.

Allegheny Ludlum Steel Corporation: *See*—
Shingledecker, Guy M., and Catulle.

Allen, Alfred W., Greensboro, N. C. Plumbing manifold. 2,645,783, July 21.

Allen, Charles F. H., and T. T. M. Laakso, assignors to Eastman Kodak Company, Rochester, N. Y. Polymeric pyrazolone couplers. 2,646,421, July 21.

Allen, Frank B., Towaco, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Supervised alarm system. 2,646,556, July 21.

Aller, T. Dwight, San Gabriel, and P. E. Noll, Pasadena, Calif., assignors to United States Steel Corporation. Hydropneumatic pumping unit. 2,645,899, July 21.

Allied Chemical & Dye Corporation, assignee: *See*—
Joffe, Jack D., and Beckham.

Allied Laboratories, Inc., assignee: *See*—
Craige, Arthur H., Jr.

Allyn, William G., Skaneateles, and C. S. Cook, Sennett, assignors to Welch Allyn, Inc., Auburn, N. Y. Foldable and separable laryngoscope. 2,646,036, July 21.

Altson, Ralph, Elmhurst, N. Y., assignor to General Motors Corporation, Detroit, Mich. Railroad journal box. 2,646,320, July 21.

Alvare, Nemesio F., Philadelphia, Pa. Transporting apparatus. 2,646,178, July 21.

American Cyanamid Company, assignee: *See*—
Bernstein, Seymour, and Heller.
Carpenter, Erwin L.
Dalalian, Harry P., and Kushner.
Paterson, John C.
Suen, Tzeng J., and Schiller.
Wooding, William M., and Suen.

American Felt Company, assignee: *See*—
Robbins, Ralph I.

American Hardware Corporation, The, assignee: *See*—
McConnell, Frank J., and Fletcher.

American Optical Company, assignee: *See*—
Aitcheson, Thomas G.
Splaine, Edward M.

American Potash & Chemical Corporation, assignee: *See*—
Kamlet, Jonas.

American Smelting and Refining Company, assignee: *See*—
Kary, Roland M.

American Viscose Corporation, assignee: *See*—
Vandenburgh, Charles D.

Ames, W. R., Company, assignee: *See*—
Wittner, Edward E., and Sherman.

Amirault, Maxime: *See*—
Destoumieux, Paul, and Amirault.

Amon, William F., Jr.: *See*—
Sargent, Donald E., and Amon.

Anderson, Clarence N., Northwood, Iowa. Flag holder. 2,646,240, July 21.

Anderson, George E., Davenport, Iowa. Shield for neurocalometers. 2,646,035, July 21.

Anderson, Gordon H., Inglewood, Calif., assignor to North American Aviation, Inc. Disconnect coupling. 2,646,294, July 21.

Andersson, Gustav H., assignor to Haldex Aktiebolag, Halmstad, Sweden. Shockproof dial indicator. 2,645,857, July 21.

Andersson, Oscar B.: *See*—
Kolpe, Olof R., and Andersson.

Apex Electrical Manufacturing Co., The, assignee: *See*—
Kirby, James B.

Arenberg, David L., Charlestown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Solids characteristics tester. 2,645,933, July 21.

Arend, Carl A., Jr., and W. A. Seedorff, Jr., Carlsbad, N. Mex., assignors to International Minerals & Chemical Corporation. Ball hammer for rotary driers. 2,645,861, July 21.

Aristocrat Leather Products, Inc., assignee: *See*—
Knee, Simon, and Markus.

Armco Steel Corporation, assignee: *See*—
Tanczyn, Harry.

Armstrong Cork Company, assignee: *See*—
Breuer, Frederick W., and Zentmyer.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Nelson, Eric.

Arnold, Robrt C., Park Forest, Ill., and A. P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Desulfurization of distillate fuels. 2,646,390, July 21.

Arnot, Alfred E. R., assignor to E. Kaye and J. R. Sharp, Basingstoke, Hampshire, England. Electric motor control system. 2,646,539, July 21.

Arthur, Jett C., Jr., and J. T. Hogan, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Cottonseed meal glues of low alkalinity. 2,646,408, July 21.

Artman, Robert G.: *See*—
Grace, Francis, and Artman.

Ashe, Thomas S., Timperley, Altrincham, assignor to Sunvic Controls Limited, London, England. Electrical energy regulator. 2,646,479, July 21.

Atchison, Leonard W., Erie, Pa., assigoor to General Electric Company. Electric defrosting arrangement for refrigerators. 2,645,905, July 21.

Atelliers Neyret-Beylier & Piccard-Pictet, assignee: *See*—
Ponsar, Yves.

Atkins, Samuel L., New York, N. Y. Drinking vessel. 2,646,200, July 21.

Atlantic Carton Corporation, assignee: *See*—
Whitehead, Earl B.

Atwood, Seth B., and W. J. Kush, assignors to Atwood Vacuum Machine Company, Rockford, Ill. Automobile door hinge. 2,645,809, July 21.

Atwood Vacuum Machine Company, assignee: *See*—
Atwood, Seth B., and Kush.

Aulen, Walter E., Woodstown, N. J., assignor to Eddystone Machinery Company, Chester, Pa. Jaw arm for winding machines. 2,646,230, July 21.

Austin, Leonard E., Santa Monica, Calif., assignor to Illinois Tool Works, Chicago, Ill. Power screw driver. 2,646,091, July 21.

Austin Motor Company Limited, The, assignee: *See*—
Bareham, Eric G., and Layland.





Automatic Electric Laboratories, Inc., assignee: *See*—
Bakker, Pier.

Automatic Poultry Feeder Company, assignee; *See*—
Smallegan, Marvin L.

Avco Manufacturing Corporation, assignee: *See*—
Green, Maurice W.

Babson Bros. Co., assignee: *See*—
Thomas, Chester A.

Backman, Pete A.: *See*—
Ronander, Harold E., and Backman.

Backstrom, Sigurd M., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration system of the inert gas type. 2,645,908, July 21.

Baker, Benjamin P., Turtle Creek, and H. M. Wilcox, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pneumatic operating assembly for air-blast circuit interrupters. 2,646,483, July 21.

Baker Perkins Inc., assignee: *See*—
Coz, Bradley G., and Evans.

Bakker, Pier, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Connector switch. 2,646,466, July 21.

Ballard, William E., Harborne, Birmingham, England. Control of electric arcs used in welding or metal spraying processes. 2,646,492, July 21.

Ballasch, Joseph G., San Diego, Calif. Shoe heel. 2,645,864, July 21.

Ballou, H. A., & Co., Incorporated, assignee: *See*—
Morehouse, Eugene.

Banscher, Fritz, Basel, Switzerland. Burner for liquid fuel. 2,646,109, July 21.

Bareham, Eric G., Shirley, Birmingham, and W. Layland, Kings Heath, Birmingham, assignors to The Austin Motor Company Limited, Birmingham, England. Carburetor. 2,646,265, July 21.

Barghausen, Louis H., Pittsburgh, Pa. Artificial limb knee structure. 2,645,779, July 21.

Barlow, Alfred C., Parkway, Hillingdon, W. G. D. Carpenter, Hayes, J. R. Cameron, Hounslow, and J. M. Griffith, Isleworth, assignors to The Fairey Aviation Company Limited, Hayes, England. Molding thermosetting synthetic resin materials. 2,646,380, July 21.

Barry, Arthur W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of ethylene polymers. 2,646,425, July 21.

Bassler, Gerald C., Pittsburgh, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Producing 1,4-dicyano-2-butene. 2,646,443, July 21.

Bates, Arthur H., Jr., Dalton, Ga., and N. Bobo, C. F. Mullinax, and W. W. Macomson, Lyman, S. C., assignors to Pacific Mills. Sheet measuring apparatus. 2,645,939, July 21.

Bates, Stanford C., Rome, N. Y. Feed mixing apparatus. 2,646,260, July 21.

Baxter, Ernest L., assignor to Eastman Kodak Company, Rochester, N. Y. Backing paper for roll photographic film. 2,646,365, July 21.

Baxter, Ernest L., assignor to Eastman Kodak Company, Rochester, N. Y. Backing paper for roll photographic film. 2,646,366, July 21.

Bayer, John C.: *See*—
Jackson, Frank L., and Bayer.

Bearn S.A., assignee: *See*—
Sahli, Ernst A.

Beauvais, Max, and G. A. C. Rey, Paris, France, assignors to E. Woog, Lausanne, Switzerland. Display rack support. 2,646,175, July 21.

Beaver, Charles E., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator for gas separation. 2,646,132, July 21.

Becker, Hans V., Miami, Fla. Water saving flush tank. 2,645,780, July 21.

Becker, Harry L.: *See*—
Cook, Charles S., and Becker.

Becker, Otto A.: *See*—
Nussbaum, Albert, and Becker.

Becker, Rodger F., assignee: *See*—
Prince, Gerrit.

Beckham, Leland J.: *See*—
Joffe, Jack D., and Beckham.

Beckman, Eugene T., Fowler, Kans. Auxiliary accelerator left foot pedal for power-driven vehicles. 2,645,948, July 21.

Bedini, Nerino, assignor to Pirelli Societa per Azioni, Milan, Italy. High-pressure fluid control valve. 2,646,245, July 21.

Bedker, Emma G., assignee: *See*—
Bedker, Leo W.

Bedker, Leo W., assignor of one-half to E. G. Bedker, East Detroit, Mich. Broach for shaving round parts. 2,645,980, July 21.

Beebe, Gerald T., Youngstown, Ohio, and H. M. Priest, Pittsburgh, Pa., assignors to United States Steel Corporation. Open floor grating. 2,645,985, July 21.

Behrens, Herbert C., assignor to Diebold, Incorporated, Canton, Ohio. Combination lock. 2,645,923, July 21.

Bell, Persa R., Jr., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Noise limiting circuit. 2,646,502, July 21.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Callaway, William B.
Davis, Kingsbury H., and Norwine.
von Gugelberg, Hans L.

Belt Corporation, The, assignee: *See*—
Belt, Vernon C.

Belt, Vernon C., assignor to The Belt Corporation, Orient, Ohio. Dolly frame for material-conveying elevators. 2,646,157, July 21.

Bemis Bro. Bag Company, assignee: *See*—
Brady, Charles V., and Williams.

Bender, John H., and D. H. Shooter, Maywood, Calif. Wheel testing device. 2,645,860, July 21.

Bendix Aviation Corporation, assignee: *See*—
Deardorff, Clinton E.
Hurlburt, Charles E., and Boehm.
Koll, Andrew J.

Bengtsson, Nils F. L.: *See*—
Lidmalm, Tord N. G., and Bengtsson.

Bennett, Edgar G., Woodville, and C. L. Willis, Ashby-de-la-Zouch, England. Vertical extrusion machine. 2,645,835, July 21.

Bennett, Wallis R., Midland, and L. N. Carmouche, Ludington, assignors to The Dow Chemical Company, Midland, Mich. Producing calcium chloride pellets. 2,646,343, July 21.

Benua, Louis P., and J. L. Coulter, Columbus, and R. H. Orthoefer, Worthington; assignors to Ebco Manufacturing Company, Columbus, Ohio. Pressure regulating valve mechanism. 2,645,885, July 21.

Benzer, Seymour, West Lafayette, and K. Lark-Horovitz, assignors to Purdue Research Foundation, Lafayette, Ind. Rectifier. 2,646,536, July 21.

Bereman, John W., Bentonville, Ark. Folding table with sectional top. 2,646,324, July 21.

Bergen, Lionel R., Iola, Wis. Fluid motor or pump. 2,646,004, July 21.

Berger, Emil J., Lansdale, and H. W. Matthews, Sonderton, assignors to Dexdale Hosiery Mills, Lansdale, Pa. Textile treating machine. 2,646,194, July 21.

Bergman, Ed, assignor to Kiddie Seat Corporation, New York, N. Y. Infant's toilet seat mounting means. 2,645,785, July 21.

Berkley, Howard L., Billings, Mont. Hydraulically operated power rake. 2,645,891, July 21.

Bernardoni, Walter, Rome, Italy. Apparatus for producing compressed air for obtaining vibratory air movements therefrom. 2,645,904, July 21.

Bernstein, Seymour, Pearl River, and M. D. Heller, Monsey, assignors to American Cyanamid Company, New York, N. Y. Preparing Δ4-pregnenes. 2,646,434, July 21.

Berty, William J., Bridgeport, Conn. Snow shield for motorcar windshields. 2,646,118, July 21.

Best, Lorin M., Eugene, Oreg. Paint can lid. 2,646,193, July 21.

Bevens, Elmer H., Los Angeles, Calif. Making hinges. 2,645,841, July 21.

Bey, Guy A. C.: *See*—
Beauvais, Max, and Bey.

Billstein, Arthur E. F., Altoona, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Rail flaw-detecting device. 2,645,938, July 21.

Birch, Haley H., Preston, Nebr. Broom. 2,645,805, July 21.

Black and Decker Manufacturing Company, The, assignee: *See*—
Wilhide, Glenn C.

Black, Robert F., Jr., and B. T. Lapsley, Dorchester, Mass. Wire pulling tool. 2,645,956, July 21.

Blackburn, Ricardo, Heidelberg, Victoria, Australia. Lavoratory seat. 2,645,784, July 21.

Blanchard, Loring W., Jr.: *See*—
Malm, Carl J., and Blanchard.

Blanchard, Robert L., New York, N. Y. Tent construction. 2,646,057, July 21.

Bletcher, Pearl, assignee: *See*—
Lynch, Leslie.

Bletcher, Ralph E., assignee: *See*—
Lynch, Leslie.

Bobo, Ned: *See*—
Bates, Arthur H., Jr., Bobo, Mullinax, and Macomson.

Boehm, Gerhard W.: *See*—
Hurlburt, Charles E., and Boehm.

Bogard, Ben T., Ruston, La. Nozzle closure-contact ring assembly for rockets. 2,645,999, July 21.

Boltuch, Leon, Wallingford, Conn. Universal joint. 2,646,242, July 21.

Bonander, Harold E., and P. A. Backman, Turlock, Calif. Irrigation valve. 2,646,076, July 21.

Borg-Warner Corporation, assignee: *See*—
Frey, Edward J.
Hubacker, Earl F.

Boschi, Antonio, assignor to Pirelli Societa per Azioni, Milan, Italy. Resilient wheel for vehicles rolling on rails. 2,646,308, July 21.

Bostwick, Wallace L., Columbus, assignor, by mesne assignments, to The United States Playing Card Company, Cincinnati, Ohio, and National Publishing Company, Philadelphia, Pa. Machine for decorating sheet edges. 2,645,871, July 21.

Bottum, Edward W., assignor to Skuttle Manufacturing Company, Detroit, Mich. Flush type humidifier. 2,646,061, July 21.

Bowman, Benjamin F., Clarksburg, W. Va. Revolving spud line. 2,646,255, July 21.

Boyar-Schultz Corporation, assignee: *See*—
Bunnell, William S.

Bradford Novelty Co., Inc., assignee: *See*—
Burnhaum, Jack.

Brady, Charles V., and R. J. Williams, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Bag. 2,646,203, July 21.

Bräm, Alfred, Schlieren, assignor to Micafil A.-G., Zurich-Alstetten, Switzerland. Rotary piston air pump. 2,646,206, July 21.

Bratun, Joseph, Pueblo, Colo. Beet picker attachment. 2,646,167, July 21.

Braun, C. F., & Co., assignee: *See*—
Lockwood, Daniel C.

Brekle, Oliver R., assignor to M and B Metal Products Company, Birmingham, Ala. Machine for forming wire garment hangers. 2,646,085, July 21.

Brendle, John A.: *See*—
Henagen, Bernard T., and Brendle.

Breuer, Frederick W., Lititz, and D. T. Zentmyer, Lancaster Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Hardened montan wax derivatives. 2,646,436, July 21.

Breukelman, Christian W., Bogota, Columbia. Well formation testing tool. 2,646,127, July 21.

Brinkley, James R., Elk Grove, Calif. Work-centering vise having toggle-locked pivoted jaw. 2,645,961, July 21.

Britton, Edgar C., and J. D. Head, assignors to The Dow Chemical Company, Midland, Mich. Production of saligenin derivatives. 2,646,446, July 21.

Brodbeck, Almer H., St. Louis, Mo., assignor to Magic Chef, Inc. Gas burner having partitioned outlet ports. 2,646,112, July 21.

Bronstein, Harry, Brooklyn, N. Y. Circumcision instrument. 2,646,047, July 21.

Brooker, Leslie G. S., and F. L. White, assignors to Eastman Kodak Company, Rochester, N. Y. Azamerocarbocyanine dyes. 2,646,409, July 21.

Brooker, Leslie G. S., and D. W. Heseltine, assignors to Eastman Kodak Company, Rochester, N. Y. Quinoline dyes of the polymethine series and preparation. 2,646,430, July 21.

Brooks, Lester M., Seattle, Wash. Cultivator. 2,645,987, July 21.

Brown, Gardner L., and T. A. Johnson, assignors to Wingfoot Corporation, Akron, Ohio. Finishing reclaim rubber. 2,645,817, July 21.

Bruner, Walter M., and J. C. Lehr, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Textile size comprising an aqueous solution of urea and a poly alpha-alkyl acrylic acid or a partial salt thereof. 2,646,412, July 21.

Brunsvold, Erick G., Hatton, N. Dak. Loading machine for partially filled bags. 2,646,162, July 21.

Bruske, Walter J., Fall Creek, Wis. Jaw trap latch dog bracket pan assembly and delayed-action guard. 2,645,876, July 21.

Bucher, Leon R., and O. K. Skiver, assignors to Hunter Douglas Corporation, Riverside, Calif. Venetian blind. 2,646,115, July 21.

Buckeye Steel Castings Company, The, assignee: *See*—
Wolfe, Harry H.

Budd Company, The, assignee: *See*—
Dean, Albert G.
Eksergian, Rupen, and Watter.

Buescher, Wilbert C., Alhambra, assignor to General Controls Co., Glendale, Calif. Hinge construction. 2,646,188, July 21.

Bulldog Electric Products Company, assignee: *See*—
Platz, Elwood T.

Brunnell, William S., assignor to Boyar-Schultz Corporation, Chicago, Ill. Deep drilling attachment. 2,645,952, July 21.

Burkett, Wilford B.: *See*—
Kircher, Ralph N., Heidner, and Burkett.

Burnbaum, Jack, Watertown, assignor to Bradford Novelty Co., Inc., Cambridge, Mass. Illuminated decoration with reflector. 2,646,497, July 21.

Burnette, Virgil, assignee: *See*—
Chetlan, Carl H.

Burt Machine Company, Inc., assignee: *See*—
Neer, Clifford H.

C-O-Two Fire Equipment Company, assignee: *See*—
Allen, Frank B.

Cabana, Wilfred J., Woonsocket, R. I., assignor to Uxbridge Worsted Company, Inc., Uxbridge, Mass. Drafting textile fibers. 2,645,822, July 21.

Cahill, John L., Floyd County, Ind. Film drying apparatus. 2,645,800, July 21.

Caldwell, Andrew H.: *See*—
Coggeshall, Almy D., and Caldwell.

Calhoun, James J., Waynesboro, and H. M. Cook, Staunton, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Self-traversing drive roll. 2,646,227, July 21.

Callaway, William B., Hackensack, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polar relay biasing circuit. 2,646,464, July 21.

Cameron, James B.: *See*—
Barlow, Alfred C., Carpenter, Cameron, and Griffith.

Canon Camera Company, Ltd., assignee: *See*—
Ito, Hiroshi.

Capell, Robert G., W. P. Ridenour, and J. A. Stewart, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Paraffin wax composition. 2,646,362, July 21.

Cardon, Maurice H., Paris, France. Correcting device for printing apparatus. 2,646,155, July 21.

Carmouche, Louis N.: *See*—
Bennett, Wallis R., and Carmouche.

Carnahan, James E., Wilmington Manor, New Castle, Del., and H. J. Sampson, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fluorocarbon compounds and preparation of same. 2,646,449, July 21.

Carne, Gerald G., Rockaway, N. J., assignor to Radio Corporation of America. Light sensitive gaseous electron discharge device and circuit therefor. 2,646,533, July 21.

Carpenter, Erwin L., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of acrylonitrile by catalytic dehydration of ethylene cyanohydrin. 2,646,444, July 21.

Carpenter, William G. D.: *See*—
Barlow, Alfred C., Carpenter, Cameron, and Griffith.

Carroll, Fred M., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Record card punching and numbering machine. 2,645,994, July 21.

Carter, Gipson L.: *See*—
Jacks, Robert L., and Carter.

Casablancas High Draft Company, Limited, assignee: *See*—
Noguera, Joseph.

Case, J. I., Company, assignee: *See*—
Raught, Arthur V.

Caswell, Arthur S.: *See*—
Wood, Joseph D., and Caswell.

Catulle, Gene C.: *See*—
Shingledecker, Guy M., and Catulle.

Celanese Corporation of America, assignee: *See*—
Paffen, Fred W., and Engel.
Ward, George C., and Haggerty.

Cerf, Robert C., Jr., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif. Mounting means for door latches. 2,646,301, July 21.

Chabrier, Pierre, Paris, P. R. L. Giudicelli, Fontenay-sous-Bois, and C. H. Génot, assignors to Les Laboratoires Dausse (Societe Anonyme), Paris, France. Rutin derivatives and production thereof. 2,646,428, July 21.

Chadwick, Wellington S., Bucyrus, Ohio. Insulated electrical tool. 2,646,304, July 21.

Chain Belt Company, assignee: *See*—
Lendved, John W., and Eickstaedt.

Chambers, Don C., Bloomington, and W. D. Chambers, Indianapolis, Ind. Vehicle short turn steering apparatus. 2,646,291, July 21.

Chambers, Wilburn D.: *See*—
Chambers, Don C., and W. D.

Chapados, Eugene, Paspebiac, Quebec, Canada. Wrist handager. 2,646,034, July 21.

Chase, Arthur S., Weare, N. H. Fish lure. 2,645,875, July 21.

Checkmaster Systems Inc., assignee: *See*—
Krakenberg, Charles G.

Cheney, Oliver P., assignor to Philco Corporation, Philadelphia, Pa. Frequency response control means for high-frequency amplifiers. 2,646,471, July 21.

Chetlan, Carl H., Cleveland, assignor of one-half to Virgil Burnette, Rittman, Ohio. Signal balloon. 2,646,019, July 21.

Chicago Roller Skate Company, assignee: *See*—
Ware, Gordon K., and Filetx.

Chicago Telephone Supply Corporation, assignee: *See*—
Vakavik, Adrian J.

Christiansen, Christian, Oslo, and G. O. K. Rüsch, Mandal, Norway. Tension control device for looms or the like. 2,646,079, July 21.

Chu, Lan J., Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electromagnetic waveguide radiator. 2,646,506, July 21.

Ciba, Limited, assignee: *See*—
Zweifel, Hans-Helni, and Ackermann.

Cinch Manufacturing Corporation, assignee: *See*—
Del Camp, Scipione M.

Cities Service Oil Company, assignee: *See*—
Hughes, William B.

Cities Service Research and Development Company, assignee: *See*—
Hughes, William B.
Hughes, William B., and Fisher.

Clark, Robert L., Woodbridge, and W. H. Jones, Elizabeth, assignors to Merck & Co., Inc., Rahway, N. J. Resolution process and compounds produced therein. 2,646,445, July 21.

Clough, Jerome L., Milwaukee, Wis. Reel reversing drive. 2,646,229, July 21.

Cloutier, Robert, assignee: *See*—
Richard, Alphonse.

Cluett, Peabody & Co., Inc., assignee: *See*—
Fetscher, Charles.

Coats & Clark Inc., assignee: *See*—
Morin, Louis H.





Coates, Clyde E., and A. L. Williams, assignors to Federal Machine & Welder Company, Warren, Ohio. Seam-welding apparatus. 2,646,491, July 21.

Coggeshall, Almy D., Schenectady, and A. H. Caldwell, Ballston Lake, N. Y., assignor to General Electric Company. Electrical coil. 2,646,535, July 21.

Cole, Herbert M., Teaneck, assignor to Federal Electric Products Company, Newark, N. J. Combined contact and terminal member for electric switches. 2,646,485, July 21.

Collins, George R., Denver, Colo. Fisherman's landing net. 2,645,874, July 21.

Colton, Grant A., Gibsonia, Pa., assignor to D. G. Griswold, Alhambra, Calif. Valve apparatus. 2,646,064, July 21.

Columbia Broadcasting System, Inc., assignee: *See*—
Doncaster, Daniel P.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Colvard, Jesse T.: *See*—
Franklin, Clarence W., and Colvard.

Communication Engineering Pty. Limited, assignee: *See*—
Law, Peter L.

Compagnie Generale d'Electricite, Societe anonyme, assignee: *See*—
Pouzet, Georges L.

Compagnie Generale des Conduites d'Eau, assignee: *See*—
Heimberg, Karl.

Condon, Francis E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Concentration and use of methylcyclopentane in 2,2,4-trimethylpentane isomerization. 2,646,453, July 21.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Holland, Herman.

Continental Transport Appliances, Limited, assignee: *See*—
Dorey, George B.

Conway, Joseph D., Cleveland Heights, Ohio. Apparatus having compound motion carpet engaging means for beating carpets or rugs. 2,645,799, July 21.

Cook, Charles S., Sennett, and H. L. Becker, assignors to Welch Allyn, Inc., Auburn, N. Y. Locking means for folding laryngoscopes. 2,646,037, July 21.

Cook, Charles S.: *See*—
Allyn, William G., and Cook.

Cook, Edgar S., Redlands, Calif. Retractable landing gear for model planes. 2,645,882, July 21.

Cook, Eugene B., Milwaukee, Wis. Apparatus for viewing or projecting colored slides or transparencies. 2,645,809, July 21.

Cook, Harry M.: *See*—
Calhoun, James J., and Cook.

Coplan, Burton V., Troy, and E. L. Zebroski, Albany, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission. Multistage mixer-settler apparatus. 2,646,346, July 21.

Cornelius, Richard T., Minneapolis, Minn. Faucet. 2,646,248, July 21.

Cottrell, C. B., & Sons Company, assignee: *See*—
Cottrell, Donald C., and Sweet.

Cottrell, Donald C., Fox Point, and C. C. Sweet, Whitefish Bay, Wis., assignors to C. B. Cottrell & Sons Company, Pawcatuck, Conn. Printing plate solidifying and dimensioning method. 2,645,998, July 21.

Coulter, Joseph L.: *See*—
Benua, Louis P., Coulter, and Orthoefer.

Cowles Chemical Company, assignee: *See*—
MacMullen, Clinton W., Shaver, and Titus.

Cowles Company, The, assignee: *See*—
Cowles, Edwin.

Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Apparatus for treating paper stock. 2,645,982, July 21.

Cox, Bradley G., Saginaw, and T. Evans, Tuscola, assignors to Baker Perkins Inc., Saginaw, Mich. Centrifugal separator. 2,646,172, July 21.

Cox, Rodney S., Marion, Ohio. Towing device with steering attachment. 2,646,290, July 21.

Craige, Arthur H., Jr., Riverdale, Md., assignor to Allied Laboratories, Inc., Kansas City, Mo. Anthelmintic compositions. 2,646,382, July 21.

Craige, Arthur H., Jr., Plainfield, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo. Anthelmintic compositions. 2,646,383, July 21.

Crawford, Vincent L., Fox Chapel, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Hydrodesulfurization process. 2,646,388, July 21.

Crichton, Andrew B., Jr., Johnstown, Pa., and C. G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa. Power take-off system and apparatus. 2,645,944, July 21.

Crichton, Andrew B., Jr., Johnstown, Pa., and C. G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa. Drill apparatus with safety control. 2,646,144, July 21.

Crichton, Andrew B., Jr., Johnstown, Pa., and C. G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa. Clutch for drill heads. 2,646,146, July 21.

Crichton, Andrew B., Jr., Johnstown, Pa., and C. G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa. Clutch for drill heads. 2,646,147, July 21.

Crichton, Andrew B., Jr., Johnstown, Pa., and C. G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa. Coupling. 2,646,297, July 21.

Crichton Company, The, assignee: *See*—
Crichton, Andrew B., Jr., and Wennerstrom.

Crittendon, Lexie R., and P. R. Haskell, Ilion, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Slide-actuated firearm with tilting locking block. 2,645,873, July 21.

Crompton & Knowles Loom Works, assignee: *See*—
Kronoff, Clarence R.

Crosley Broadcasting Corporation, assignee: *See*—
Rockwell, Ronald J.

Crystal, John, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Impact crusher rotor with rigid hammers. 2,646,224, July 21.

Cuplin, Frank M., Crowley, La. Mailbox including spring urged door. 2,646,214, July 21.

Curtiss, Frank R., New Haven, Conn. Collapsible drinking cup. 2,645,913, July 21.

Curtiss-Wright Corporation, assignee: *See*—
Ackerman, Edward, De Feo, and Francisco.
Davis, Charles S., Jr., and Rice.
Mergen, Joseph M., and Murphy.

Dainlian, Harry P., Rutherford, N. J., and S. Kushner, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Pyrazine derivatives and preparing the same. 2,646,431, July 21.

Dale, Edward C., Jr., Christiansted, St. Croix, Virgin Islands. Eyeshade. 2,645,774, July 21.

Daleo, James, Long Island, N. Y., and S. Foglio, Jr., Teaneck, N. J. Sample display case. 2,646,143, July 21.

D'Amico, Anthony F.: *See*—
Huelster, Otto J., and D'Amico.

Damschroder, Rudolph E.: *See*—
Hill, George D., and Damschroder.

Damschroder, Rudolph E., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of photographic emulsions. 2,646,426, July 21.

Daniel, Nathan I., Asbury Park, N. J. Electrical musical instrument. 2,645,969, July 21.

Darke, Francis J., Jr.: *See*—
Sziklai, George C., and Darke.

Davis, Charles S., Jr., New York, N. Y., and J. E. Rice, Jr., Pompton Plains, N. J., assignors to Curtiss-Wright Corporation. Apparatus for dressing gear teeth grinding wheels. 2,646,030, July 21.

Davis, Chester, and N. A. Thacker, assignors to The National Cash Register Company, Dayton, Ohio. Transfer paper. 2,646,367, July 21.

Davis, Delbert A., assignor of one-half to H. N. Stamos, Centerville, Iowa. Alleron gauge. 2,645,858, July 21.

Davis, Kingsbury H., Bernardsville, and A. C. Norwine, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voice-operated system. 2,646,465, July 21.

Davis, Roy A., Leesburg, Fla. Shutter construction and operator. 2,645,828, July 21.

Dawson, John R., Sr., Hampton, Va. Buoyant aircraft with hydroskis. 2,646,235, July 21.

Dayton, Carl S., Bridgeport, Conn., assignor to General Electric Company. Cover construction for worktables. 2,646,328, July 21.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. End underframe weldment for railway cars of the passenger train type. 2,646,009, July 21.

Dean, Reginald S., Washington, D. C. Making electroformed articles. 2,646,396, July 21.

Dearborn Motors Corporation, assignee: *See*—
Spedding, Raymond T.
Wechsler, Hermann.

Deardorff, Clinton E., San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Bypass valve for hydraulic motors. 2,646,025, July 21.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pressure balance indicator. 2,645,949, July 21.

De Feo, Angelo: *See*—
Ackerman, Edward, De Feo, and Francisco.

Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Tube shield and socket mounting assembly. 2,646,460, July 21.

Denison Engineering Company, The, assignee: *See*—
Adams, Cecil E.

Dennison, Lee B., Fernwood, Idaho. Forming imitation hand rift shingles. 2,646,093, July 21.

Densmore, Neal W.: *See*—
Goodrich, Ross H., and Densmore.

De Salvo, Alfonso, Genoa, Italy. Self-propelled floating toy. 2,645,883, July 21.

Desautels, Eli A.: *See*—
Euler, George M., and Desautels.

Destoumieux, Paul, Neuilly-sur-Seine, and M. Amirault, Anthony, France. Packing for use between rotatable and fixed parts. 2,646,296, July 21.

Detroit Steel Products Company, assignee: *See*—
Kelly, Clyde W.

De Vilbiss Company, The, assignee: *See*—
Peeps, Donald J.

Dewhirst, Paul A., assignee: *See*—
Hamer, Leland S.

Dexdale Hosiery Mills, assignee: *See*—
Berger, Emil J., and Matthews.

Diack, Samuel L., Portland, Oreg. Collapsible bottle. 2,646,044, July 21.

Dibrell, James W., Brooklyn, N. Y. Instrument for drawing ellipses and related figures. 2,645,854, July 21.

Dickey, Joseph B., and T. E. Stanin, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing isopropenyl esters. 2,646,437, July 21.

Diebold, Incorporated, assignee: *See*—
Behrens, Herbert C.

Doncaster, Daniel P., Long Island City, assignor to Columbia Broadcasting System, Inc., New York, N. Y. Record player. 2,646,283, July 21.

Doolittle, Howard D., Stamford, Conn., assignor to Machlett Laboratories, Incorporated. Ultrahigh-frequency tetrode. 2,646,470, July 21.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Discharge outlet and closure assembly. 2,646,006, July 21.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper discharge outlet for railway cars. 2,646,007, July 21.

Dorey, George B., assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada. Brake slack adjuster. 2,646,137, July 21.

Dorey, George B., assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada. Brake slack adjuster. 2,646,138, July 21.

Dorey, George B., Westmount, Quebec, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada. Automatic slack adjuster. 2,646,139, July 21.

Dorey, George B., Westmount, Quebec, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada. Automatically operable slack adjuster for air brakes. 2,646,140, July 21.

Dorey, George B., Westmount, Quebec, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada. Spring mechanism for slack adjusters. 2,646,141, July 21.

Dorff, C. J., Manufacturing Co., assignee: *See*—
Dorff, Conrad J.

Dorff, Conrad J., assignor to C. J. Dorff Manufacturing Co., Chicago, Ill. Flush tank valve. 2,646,069, July 21.

Dornbush, Edward, Miami Beach, Fla. Broiling device. 2,646,495, July 21.

Dow Chemical Company, The, assignee: *See*—
Bennett, Wallis R., and Carmouche.
Britton, Edgar C., and Head.
Lang, John L.
Thurber, William S.
Webr, Henry W., and Nagle.

Drisch, Nicolas, and R. Fays, assignors, by mesne assignments, to Societe Novacel, Paris, France. Making retractile articles. 2,645,818, July 21.

Droste, Paul F., Glen Ellyn, Ill., and H. J. Hill, deceased, Millvale, Pa.; C. R. Hill, administratrix, assignors to National Cylinder Gas Company, Chicago, Ill. Apparatus and method for filling containers with predetermined quantities of gas. 2,645,907, July 21.

Drum Corporation, The, assignee: *See*—
Vengris, Michael P.

Duane, John J., Buffalo, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Dehalogenating halogenosilanes. 2,646,441, July 21.

Dubois, Georges, assignor to A. Schild S. A., Granges, Switzerland. Self-winding watch mechanism. 2,645,895, July 21.

Dugin, Leo J., assignor to National Autostitch Corporation, Chicago, Ill. Removable staple drive guide for staple driving implements. 2,645,773, July 21.

Dumas, Albert S., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Splitting machine. 2,645,921, July 21.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Grace, Francis C., and Artman.
Schmidt, Fred W., Jr.

Dunn, James M., Sandpoint, Idaho. Well construction. 2,646,129, July 21.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Barry, Arthur W.
Bruner, Walter M., and Lehr.
Calhoun, James J., and Cook.
Carnahan, James E., and Sampson.
Green, Ralph V., and Jensen.
Hughes, Jesse E., Kemp, and Pyle.
Morgan, Paul W.
Peterson, Russell W.
Strain, Daniel E.

Durston, David S., assignor of one-half to Samuel Williams & Sons Limited, London, England. Electromagnetic clutch and brake device. 2,646,145, July 21.

Duvall, Thure C., Cloquet, assignor to Wood Conversion Company, St. Paul, Minn. Dispersing and felting fibers and mill. 2,646,381, July 21.

Dyer, Richard F., Kingsport, Tenn. assignor to Eastman Kodak Company, Rochester, N. Y. Fluid-operated rapid traverse mechanism for winding strand material. 2,646,228, July 21.

Eakins, William V., Buffalo, N. Y. Electrical terminal detecting signal. 2,646,018, July 21.

Eastman Kodak Company, assignee: *See*—
Allen, Charles F. H., and Laakso.
Baxter, Ernest L.
Brooker, Leslie G. S., and Heseltine.
Brooker, Leslie G. S., and White.
Damschroder, Rudolph E.
Dickey, Joseph B., and Stanin.
Dyer, Richard F.
Heseltine, Donald W.
Hill, George D., and Damschroder.
Malm, Carl J., and Blanchard.
Thompson, Russell G.

Ebco Manufacturing Company, assignee: *See*—
Benua, Louis P., Coulter, and Orthoefer.

Eberspacher, J., assignee: *See*—
Kohlmann, Hans, and Zellbeck.

Eckert, James E.: *See*—
Werenfels, Peter H., and Eckert.

Eckert, John P., Jr., Gladwyne, and J. W. Mauchly, Ambler, assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Signal responsive device. 2,646,501, July 21.

Eckert-Manchly Computer Corporation, assignee: *See*—
Eckert, John P., Jr., and Mauchly.

Eddystone Machinery Company, assignee: *See*—
Aulen, Walter E.

Edgar, Albert C., Palos Heights, Ill., assignor to Wilson & Co., Inc. Coating for food containers. 2,646,358, July 21.

Edinburg, Murray W., Worcester, Mass. Direct writing electrocardiograph. 2,646,336, July 21.

Eickstaedt, Edwin A. C.: *See*—
Lendved, John W., and Eickstaedt.

Ekaterglan, Rupen, Media, and M. Watter, assignors to The Budd Company, Philadelphia, Pa. Vertically extended dead light panel of passenger railway cars. 2,646,008, July 21.

Elkington, James E., San Francisco, Calif. Fluid actuated snap-acting gate valve. 2,646,075, July 21.

Elkins, Douglas A., Salt Lake City, Utah. Rotary pump and motor hydraulic transmission. 2,645,901, July 21.

Elkins, Douglas A., Salt Lake City, Utah. Variable ratio rotary pump and motor hydraulic transmission. 2,645,903, July 21.

Empire Brush Works, Inc., assignee: *See*—
Gantz, Harry, Schwartz, and Iasillo.

Emslie, Alfred G., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Moving object pulse echo selection circuit for radar systems. 2,646,561, July 21.

Emslie, Alfred G., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio object-location system for moving target indication. 2,646,562, July 21.

Engel, Edward M.: *See*—
Paffen, Fred W., and Engel.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.

Erickson, Albert: *See*—
Gaverth, Delbert R., and Erickson.

Erkkila, Andrew, assignor to Independent Lock Company, Fitchburg, Mass. Flush cylinder tubular night latch. 2,645,926, July 21.

Ernst, Walter L., Ann Arbor, Mich. Sign. 2,645,868, July 21.

Etablissements G. Decombe, assignee: *See*—
Gazet, Marius.

Euler, George M., and E. A. Desautels, Schenectady, N. Y., assignors to General Electric Company. Switch closing mechanism. 2,646,478, July 21.

Evans, Thomas: *See*—
Cox, Bradley G., and Evans.

Evers, Frank P., Los Angeles, Calif. Tight wire rigging. 2,646,280, July 21.

Eyster, Aden I., Seven Valleys, Pa. Tape measure. 2,645,856, July 21.

Fairey Aviation Company Limited, The, assignee: *See*—
Barlow, Alfred C., Carpenter, Cameron, and Griffith.

Fays, René: *See*—
Drisch, Nicolas, and Fays.

Federal Electric Products Company, assignee: *See*—
Cole, Herbert M.

Federal Machine & Welder Company, assignee: *See*—
Coates, Clyde E., and Williams.

Fegan, Robert W., Kenmore, assignor to George B. Hart, Inc., Rochester, N. Y. Unit for cutting materials by heat. 2,646,494, July 21.

Fela, Michael J., assignee: *See*—
Nellsen, Hildaur L.

Felt and Tarrant Manufacturing Company, assignee: *See*—
Turck, Joseph A. Y.

Ferguson, Harry R.: *See*—
Patrick, Joseph C., and Ferguson.





Ferguson, William B., Melrose, assignor to H. K. Porter, Inc., Somerville, Mass. Appliance for positioning automobile body parts for repair operations thereon. 2,646,101, July 21.

Ferrell, Harold A., Halifax, Va. Tractor bumper. 2,646,303, July 21.

Ferrin, Arthur M., Eden, Utah. Adjustable implement for paring vegetables. 2,645,851, July 21.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Vane track for hydrodynamic machines. 2,646,003, July 21.

Fetscher, Charles, assignor to Cluett, Penbody & Co., Inc., Troy, N. Y. Obtaining luster in cotton fabric by mercerizing and calendering the fabric. 2,646,341, July 21.

Fezzey, Chester T., assignor to Accessory Makers, Detroit, Mich. Window regulator. 2,646,276, July 21.

Filetz, George J.: *See*—
Ware, Gordon K., and Filetz.

Fisher, Benjamin J., Jr., Utica, N. Y., assignor to General Electric Company. Nutating antenna. 2,646,508, July 21.

Fisher, Everett B.: *See*—
Hughes, William B., and Fisher.

Flakice Corporation of Delaware, assignee: *See*—
Leeson, Meldon G.

Fletcher, Irving J.: *See*—
McConnell, Frank J., and Fletcher.

Foglio, Samuel, Jr.: *See*—
Daleo, James, and Foglio.

Ford Motor Company, assignee: *See*—
Galla, Stephen J.
Kramer, Clarence F.

Foss, Ferdinand H. H., Chicago, Ill., assignor to S. G. Taylor Chain Company, Hammond, Ind. Lifting hook. 2,646,306, July 21.

Foster, Bertram G.: *See*—
Shires, John M., and Foster.

Foster's Freeze National Corporation, assignee: *See*—
Martin, Philip.

Fowler, Lambuth G., Lubbock, Tex. Separator for cotton harvesters. 2,645,821, July 21.

Fowler, Roy E., Watkinsville, assignor of one-half to L. Henson, Athens, Ga. Button injector and positioning attachment. 2,646,014, July 21.

Fox, Willem C., Brunssum, and J. N. J. Leeman, Hoensbroek, assignors to Stamicarbon N. V., Heerlen, Netherlands. Process and apparatus for the separation of materials of different specific gravity and sizes. 2,646,160, July 21.

Francis, Alfred W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Solvent recovery with liquid carbon dioxide. 2,646,387, July 21.

Francisco, William H., Jr.: *See*—
Ackerman, Edward, De Feo, and Francisco.

Frangos, Everett W., Lynn, Mass. Top. 2,645,881, July 21.

Frankel, Edward M., Nyark, N. Y. Producing refined fats and oils. 2,646,438, July 21.

Franklin, Clarence W., Clarkesville, and J. T. Colvard, Mount Airy, Ga. Check for picker sticks. 2,646,082, July 21.

Franklin, Sid S.: *See*—
Greene, Benjamin N., and Franklin.

Freeman, Alice M., Minneapolis, Minn. Drapery pleat construction. 2,646,116, July 21.

Freer, Phelps M., Detroit, Mich. Automobile heater. 2,646,258, July 21.

Fremon, Jules A., St. Louis, Mo. Coin controlled device. 2,646,154, July 21.

Frey, Edward J., Herrin, assignor to Borg-Warner Corporation, Chicago, Ill. Centrifugal pump. 2,646,002, July 21.

Friedman, Alex., Koomandit-Gesellschaft, assignee: *See*—
Nemetz, Gustav.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Nut piercing method. 2,645,793, July 21.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Outboard bearing for metal rolling apparatus. 2,645,955, July 21.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Stock straightener for cold header devices. 2,646,102, July 21.

Frielinghaus, Ferdinand, Dortmund, Germany. Hot strip furnace reel. 2,646,231, July 21.

Fuchs, William F., Berwyn, and V. Lekan, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Wire stripping and twisting device. 2,645,950, July 21.

Fuster, Antonio L., Delano, Calif. Permanently mounted motor vehicle jack. 2,646,250, July 21.

Futterknecht, Rudolf, Stuttgart, Germany, assignor to Nassau Distributing Co., Inc., New York, N. Y. Ionization responsive instrument. 2,646,516, July 21.

Galla, Stephen J., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Door checking and holding device. 2,645,810, July 21.

Gaillot, Jules A. N., Bexley, England. Turbine driven multistage compressor. 2,646,209, July 21.

Gallo, Patrick V., Brooklyn, N. Y. Combined cabinet and desk. 2,646,331, July 21.

Gamble, James G., assignor to Paul Whitin Manufacturing Co., Northbridge, Mass. Cop handling mechanism. 2,646,226, July 21.

Gantz, Harry, H. H. Schwartz, and C. Iasillo, Sr., assignors to Empire Brush Works, Inc., Portchester, N. Y. Brush and the bristle formed therewith. 2,645,804, July 21.

Garlock, Martin E., Kirksville, Mo. Wheel stabilizer means for hand guided garden plows. 2,645,990, July 21.

Gaskell, Walter L., Ypsilanti, assignor to King-Seeley Corporation, Ann Arbor, Mich. Jig saw. 2,646,089, July 21.

Gaverth, Delbert R., Des Plaines, and A. Erickson, Chicago, Ill. Automobile cover. 2,646,097, July 21.

Gaylord Container Corporation, assignee: *See*—
Gibbons, Clyde F.
Meinhardt, John W.

Gazet, Marius, assignor to Etablissements G. Decombe, Lyon, France. Spool. 2,646,233, July 21.

Geary, Edward S., Nutley, and G. W. Soderman, West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Fixture for skinning insulation from electrical conductors. 2,645,958, July 21.

Geist, Carl A., Buffalo, N. Y. Bearing assembly. 2,646,321, July 21.

General Aniline & Film Corporation, assignee: *See*—
Sargent, Donald E., and Amon.

General Controls Co., assignee: *See*—
Buescher, Wilbert C.
Ray, William R.

General Electric Company, assignee: *See*—
Atchison, Leonard W.
Coggeshall, Almy D., and Caldwell.
Dayton, Carl S.
Euler, George M., and Desautels.
Fisher, Benjamin J., Jr.
Homkes, Bartell J.
Kalikow, Irving, Hildebrand, and Lukens.
Labastie, Albert H.
Taylor, Robert B.

General Motors Corporation, assignee: *See*—
Altson, Ralph.
Henderson, Harry P.

Génot, Charles H.: *See*—
Chabrier, Pierre, Giudicelli, and Génot.

Gent, Edgar W., Morristown, N. J. Cutting instrument. 2,645,849, July 21.

Gerhold, Clarence G., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for fractionating multicomponent streams. 2,646,392, July 21.

Gerst, Chris, Detroit, assignor to The Transmission & Gear Company, Dearborn, Mich. Discharge chute mounting for concrete mixers. 2,646,262, July 21.

Gevirman, Jerome, Brooklyn, N. Y. Connection for the bits of smoking pipes. 2,646,052, July 21.

Giacoletto, Lawrence J., Eatontown, N. J., assignor to Radio Corporation of America. Electron oscillator circuit. 2,646,531, July 21.

Gibbons, Clyde F., Atlanta, Ga., assignor to Gaylord Container Corporation, St. Louis, Mo. Flap locking device for container inserts. 2,646,202, July 21.

Gibson, Harry E., Muskegon, Mich. Power hammer. 2,646,100, July 21.

Gilchrist, Albert D., Lyndhurst, assignor to The Leece-Neville Company, Cleveland, Ohio. Saturable reactor voltage regulation. 2,646,543, July 21.

Gill, Walter L., Redlands, Calif. Electric storage battery venting system. 2,646,459, July 21.

Gillespie, Robert H., Walpole, assignor to The Kendall Company, Boston, Mass. Textile interliner fabric for garments and making the same. 2,646,374, July 21.

Gillespie, Robert H., Walpole, assignor to The Kendall Company, Boston, Mass. Polyvinyl chloride polymer dispersion. 2,646,414, July 21.

Gilroy, John, Sun Prairie, and A. R. Wiese, Jr., Madison, Wis., assignors to Air Reduction Company, Incorporated. Metering apparatus for oxygen tents. 2,646,041, July 21.

Giudicelli, Pierre R. L.: *See*—
Chabrier, Pierre, Giudicelli, and Génot.

Gloyer, Stewart W., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Co., Allegheny County, Pa. Liquid-liquid fractionation of glyceride oils. 2,646,439, July 21.

Goldberg, Max W., West Bend, assignor to Modern Equipment Company, Port Washington, Wis. Smoke and spark arrester for cupolas. 2,646,263, July 21.

Golden Bear Oil Co., assignee: *See*—
Rostler, Fritz S.

Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Subtractive color television. 2,645,976, July 21.

Goldsmith, Vernon H., West Palm Beach, Fla. Jar top remover with resilient cap engaging member. 2,645,957, July 21.

Goodell, Warren F., Jr., Urbana, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Plan position indicator system. 2,646,530, July 21.

Goodner, Grover D., Houston, Tex. Well screen. 2,646,126, July 21.

Goodrich, B. F., Company, The, assignee: *See*—
Jennings, Garland B.

Goodrich, Ross H., and N. W. Densmore, Claremont, N. H., assignors to Joy Manufacturing Company, Pittsburgh, Pa. Electric switch and power take-off device. 2,646,475, July 21.

Gorham, George, assignor to Technicon Cardiograph Corporation, New York, N. Y. Recorder with retractable web-supporting means. 2,646,337, July 21.

Gosline, Frederick V., Detroit, Mich., assignor, by mesne assignments, to Pioneer Specialty Company. Extensible antenna with two-way acting fluid driving means. 2,646,504, July 21.

Gougler, C. L., Machine Company, The, assignee: *See*— Miller, Edward M.

Grace, Francis C., New York, and R. G. Artman, Roslyn, N. Y., assignors to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Television test system. 2,646,461, July 21.

Granet, Charles, Courbevoie, and M. Helbig, Paris, France. Double-acting hydraulic piston shock absorber. 2,646,136, July 21.

Gray, Russell J., Meadeville, Minn. Bunghole adapter. 2,646,293, July 21.

Grede, Charles C., Denville, N. J. Vibrator unit for multicolor printing presses. 2,645,997, July 21.

Green, Martin J., Chicago, Ill. Garbage disposal unit. 2,646,222, July 21.

Green, Maurice W., South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Horizontal axis washer and squeezer extractor. 2,645,916, July 21.

Green, Ralph V., and E. P. Jensen, Charleston, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Refining of long chain aliphatic alcohols. 2,646,394, July 21.

Greene, Benjamin N., and S. S. Franklin, Miami Beach, Fla. Lip imprinting device. 2,646,054, July 21.

Gregg, Earle C., Jr., East Cleveland, Ohio, assignor to United States of America as represented by the Secretary of the Navy. Recording wattmeter. 2,646,547, July 21.

Greist Manufacturing Company, The, assignee: *See*— Johnson, Harry N.

Griffith, John M.: *See*— Barlow, Alfred C., Carpenter, Cameron, and Griffith.

Grigsby, Raymond P., Aurora, Nebr. Wagon hitch with automatic unit and lever releasing gear. 2,646,288, July 21.

Griswold, Donald G., assignee: *See*— Colton, Grant A.

Gronemeyer, Erich W., Pompton Plains, N. J., assignor to Owens-Illinois Glass Company. Pressure type container. 2,646,192, July 21.

Grube, Karl P.: *See*— Abrahamson, Charles M., and Grube.

Gruener, Alvin J.: *See*— Holmberg, John E., and Gruener.

Gulf Research & Development Company, assignee: *See*— Capell, Robert G., Ridenour, and Stewart. Crawford, Vincent L.

Gullas, Joseph G., Weirton, W. Va., assignor to National Steel Corporation. Apparatus for dispensing measured volumes of liquid. 2,646,068, July 21.

Gummed Products Company, The, assignee: *See*— Herrlinger, Paul W.

Haas, Otto R., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for making hassocks. 2,646,013, July 21.

Haesler, Charles, assignor to Haesler-Glauque & Cie, Fabrique de Machines, Le Locle, Switzerland. Milling attachment for universal machine tools. 2,645,979, July 21.

Haesler-Glauque & Cie, Fabrique de Machines, assignee: *See*— Haesler, Charles.

Haggerty, William T., Jr.: *See*— Ward, George C., and Haggerty.

Haldex Aktiebolag, assignee: *See*— Andersson, Gustav H.

Hall, Jesse E., assignor of ten per cent to Parker Industrial Products, Inc., Weatherford, Tex. Apparatus for multistage cementing of deep wells. 2,646,125, July 21.

Hamer, Leland S., Long Beach, assignor of one-fourth to P. A. Dewhirst, Los Angeles, Calif. Sealing construction for plug valves. 2,646,247, July 21.

Hammond Instrument Company, assignee: *See*— Hanert, John M.

Hanert, John M., Park Ridge, assignor to Hammond Instrument Company, Chicago, Ill. Electrical musical instrument. 2,645,968, July 21.

Hanert, John M., Park Ridge, assignor to Hammond Instrument Company, Chicago, Ill. Ear response compensated volume control apparatus. 2,646,468, July 21.

Hansen, William W.: *See*— Varian, Russell H., Hansen, and Woodyard.

Hanson, John M., Sr., Alsea, Oreg. Depth gauge for chain saws. 2,645,839, July 21.

Harris, Beri M., Talbotton, Ga. Self-selvager for looms. 2,646,084, July 21.

Harris, Mechell F., Kansas City, Mo. Hair curler. 2,646,053, July 21.

Hart, George B., Inc., assignee: *See*— Fegan, Robert W.

Hartzler, Melvin E.: *See*— McKee, John F., and Hartzler.

Haskell, Philip R.: *See*— Crittendon, Lexie R., and Haskell.

Hawkes, Thomas B., Champlain, N. Y., assignor of one-half to The Sheridan Iron Works, and one-half to T. W. & C. B. Sheridan Company. Strip applying mechanism in or for bookbinding machines. 2,646,104, July 21.

Hayes, Stanley A., Pasadena, Calif. Back flow preventer. 2,646,063, July 21.

Hayes, William B., Los Angeles, Calif. Device for rocking cribs. 2,645,790, July 21.

Hazeltine, Alan, Maplewood, N. J., assignor to Hazeltine Research, Inc., Chicago, Ill. System for generating scanning currents. 2,646,526, July 21.

Hazeltine, Alan, Maplewood, N. J., assignor to Hazeltine Research, Inc., Chicago, Ill. System for generating a periodic scanning current. 2,646,532, July 21.

Hazeltine Research, Inc., assignee: *See*— Hazeltine, Alan.

Head, James D.: *See*— Britton, Edgar C., and Head.

Hedstrom, Gustav V.: *See*— Wahlberg, Nils E., and Hedstrom.

Heidner, Richard C.: *See*— Kircher, Ralph N., Heidner, and Burkett.

Heimberg, Karl, Mulheim (Ruhr), assignor to Compagnie Generale des Conduits d'Eau, Les Vennes-Liege, Belgium. Manufacturing basic steel. 2,646,351, July 21.

Helbig, Maurice: *See*— Granet, Charles, and Helbig.

Heller, Milton D.: *See*— Bernstein, Seymour, and Heller.

Henderson, Harry P., North Woodbury, Conn., assignor to General Motors Corporation, Detroit, Mich. Electroprocessing apparatus. 2,646,398, July 21.

Hensgen, Bernard T., and J. A. Brendle, assignors to Swift & Company, Chicago, Ill. Margarine color injector. 2,646,100, July 21.

Henson, Luther, assignee: *See*— Fowler, Roy E.

Herbst, Philip J., Moorestown, N. J., assignor to Radio Corporation of America. Surface contour measurement. 2,645,971, July 21.

Hercules Powder Company, assignee: *See*— Kneisley, Joseph W.

Herold, Victor, Paris, assignor to Societe des Accumulateurs Fixes & De Traction, Romainville, France. Manufacture of battery electrodes and the resulting electrodes. 2,646,454, July 21.

Herreng, Pierre A.: *See*— Ville, Jean A., Pages, and Herreng.

Herrlinger, Paul W., assignor to The Gummed Products Company, Troy, Ohio. Tape moistening device. 2,646,020, July 21.

Herterick, Vincent R., assignor to Wade Electric Products Co., Sturgis, Mich. Light and switch combination. 2,646,477, July 21.

Hertig-Hösler, Sonja, and W. Hertig, Bassecourt, Switzerland. Piston syringe for medical use. 2,646,043, July 21.

Hertig, Werner: *See*— Hertig-Hösler, Sonja, and Hertig.

Herzig, Albert M., assignee: *See*— Terry, Paul A.

Heseltine, Donald W.: *See*— Brooker, Leslie G. S., and Heseltine.

Heseltine, Donald W., assignor to Eastman Kodak Company, Rochester, N. Y. Synthesis of quinaldinium salts. 2,646,433, July 21.

Hildebrand, Lee E.: *See*— Kalikow, Irving, Hildebrand, and Lukens.

Hill, Charlotte B., administratrix: *See*— Droste, Paul F., and Hill.

Hill, George D., and R. E. Damschroder, assignors to Eastman Kodak Company, Rochester, N. Y. Removal of volatile products from photographic emulsions. 2,646,353, July 21.

Hill, Howard J.: *See*— Droste, Paul F., and Hill.

Hinesman, George M., Galion, Ohio. Portable stand. 2,646,237, July 21.

Hirtreiter, Walter J., Buffalo, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force. Low-frequency oscillator and phase meter. 2,646,517, July 21.

Hirvonen, Eric J., Shrewsbury, assignor to Leland-Gifford Company, Worcester, Mass. Hydraulic indexing mechanism. 2,645,981, July 21.

Hobbs, Howard F., assignor to Hobbs Transmission Limited, Leamington Spa, England. Torque and speed responsive fluid clutch. 2,646,150, July 21.

Hobbs Transmission Limited, assignee: *See*— Hobbs, Howard F.

Hobson, Ota O., Vinton, Iowa. Grain drier. 2,645,991, July 21.

Hockery, John C., trustee, assignee: *See*— McLean, Robert E.

Hodgins, Donald R., East Cleveland, assignor to Superduction, Inc., Cleveland, Ohio. Storm window structure. 2,646,117, July 21.

Hogan, Joseph T.: *See*— Arthur, Jett C., Jr., and Hogan.





Holland, Herman, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation. Hydraulic flow regulator. 2,646,070, July 21.

Holley Carburetor Company, assignee: *See*— Udale, Stanley M.

Holley, Thomas I., Webb City, Mo. Drill rig catwalk. 2,646,317, July 21.

Hollymade Hardware Manufacturing Company, assignee: *See*— Cerf, Robert C., Jr.

Holmberg, John E., and A. J. Gruener, Duluth, Minn., said Gruener assignor to M. F. Stoffel, Minneapolis, Minn. Spark plug heating and protecting attachment. 2,646,029, July 21.

Holzer, Albert W., Arlington, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bake oven for incandescent lamps. 2,645,862, July 21.

Homeyer, August H., Webster Groves, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Preparing 2,6-diketupurines. 2,646,432, July 21.

Homikes, Bartell J., Chicago, Ill., assignor to General Electric Company. Control device adjustment means. 2,645,945, July 21.

Hoof Products Company, assignee: *See*— Jennings, Jarvis S.

Hopkins, David W., assignor to R-S Products Corporation, Philadelphia, Pa. Variable stroke cushioned valve. 2,646,074, July 21.

Horne, William O., Pasadena, Calif. Pot-type oil burner. 2,646,110, July 21.

Horst, E. Clemens, Company, assignee: *See*— Horst, Emil C., Jr.

Horst, Emil C., Jr., assignor to E. Clemens Horst Company, San Francisco, Calif. Hop picking machine. 2,645,893, July 21.

Houdaille-Hershey Corporation, assignee: *See*— Powell, Burnet J.

Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Method of and apparatus for converting hydrocarbons. 2,646,391, July 21.

Houdry Process Corporation, assignee: *See*— Houdry, Eugene J. Kollgaard, Reyner. Lassiat, Raymond C., and Savage.

Hovey, Preston W., Berkeley, Calif. Disk brake. 2,646,135, July 21.

Hubacker, Earl F., Muskegon, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Low side drier. 2,645,912, July 21.

Huebner, Herbert A., assignee: *See*— Terry, Paul A.

Huelster, Otto J., and A. F. D'Amico, assignors to Scovill Manufacturing Company, Waterbury, Conn. Apparatus for attaching and spacing fastener elements on supports. 2,646,185, July 21.

Hughes, Jesse E., Bridgeport, N. J., H. S. Kemp, Elsmere, and C. Pyle, New Castle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of dimethyl terephthalate by distillation. 2,646,393, July 21.

Hughes, William B., Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y. Inhibiting corrosion of metals. 2,646,399, July 21.

Hughes, William B., Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y. Inhibiting corrosion of metals. 2,646,400, July 21.

Hughes, William B., and E. B. Fisher, Bartlesville, Okla., assignors to Cities Service Research and Development Company, New York, N. Y. Breaking petroleum water-in-oil emulsions. 2,646,404, July 21.

Hughes, William B., assignor to Cities Service Oil Company, Bartlesville, Okla. Surface active compounds. 2,646,405, July 21.

Hughes, William B., assignor to Cities Service Oil Company, Bartlesville, Okla. Surface active compounds. 2,646,406, July 21.

Huguenin, Marc P., Geneva, Switzerland, assignor to Montres Rolex S. A. (Rolex Watch Co. Ltd.). Winding mechanism for self-winding watches. 2,645,894, July 21.

Hulet, Alfred E., assignee: *See*— Williford, Lawrence M.

Hulstede, George E., Belmont, Calif., assignor to the United States of America as represented by the Secretary of War. Electrical coupling structure. 2,646,511, July 21.

Hulstede, George E., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Oscillator. 2,646,525, July 21.

Hunter Douglas Corporation, assignee: *See*— Bucher, Leon R., and Skiver.

Hu, Quang H., New York, N. Y. Medical apparatus. 2,646,042, July 21.

Hurlburt, Charles E., Teaneck, and G. W. Boehm, West Englewood, assignors to Bendix Aviation Corporation, Teterboro, N. J. Gyroscope. 2,645,942, July 21.

Hurst, Clay E., Chincoteague, Va. Undulatory merry-go-round. 2,646,281, July 21.

Hurtaj, Romuald, London, England. Combustion chamber having a series of expansion chambers. 2,645,898, July 21.

Hutcheson, John W., Beacon, and E. C. Knowles, Glenham, assignors to The Texas Company, New York, N. Y. Manufacture of zinc salts of high molecular weight alkylated hydroxy aromatic compounds. 2,646,402, July 21.

Hutchison, Loyd E., Houston, Tex. Hydraulic type fluid transmission. 2,645,900, July 21.

Hutten, Maxwell W., and F. S. Mone, Schenectady, N. Y. Safety stand for linoleum rolls. 2,646,174, July 21.

Hvid, Hazel C., assignee: *See*— Slonek, Frank G.

Hylbak, Harley E., Richland, Wash., assignor to the United States of America as represented by the United States Atomic Energy Commission. Well casing soil sampler. 2,646,252, July 21.

Hytron Radio & Electronics Co., a division of Columbia Broadcasting System, Inc., assignee: *See*— Sokolov, David A.

I-T-E Circuit Breaker Company, assignee: *See*— Stratton, Robert L.

I. T. E. Circuit Breaker Company, assignee: *See*— Wood, Joseph D., and Caswell.

Iasillo, Casper, Sr.: *See*— Gantz, Harry, Schwartz, and Iasillo.

Illinois Tool Works, assignee: *See*— Austin, Leonard E.

Independent Lock Company, assignee: *See*— Erkkila, Andrew.

Ingalls, Henry A., Wasco, Calif. Device for liquid treatment of soil. 2,646,012, July 21.

Ingersoll-Rand Company, assignee: *See*— Wickens, Edward F.

Institute of Paper Chemistry, The, assignee: *See*— Skalmusky, Marvin F., Root, and McKee.

International Business Machines Corporation, assignee: *See*— Carroll, Fred M.

International Minerals & Chemical Corporation, assignee: *See*— Arend, Carl A., Jr., and Seedorff.

International Nickel Company, Inc., The, assignee: *See*— Sefing, Frederick G.

International Steel Company, assignee: *See*— Nystrom, Karl F.

Isabella, Anthony, Philadelphia, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Boundary layer control for compressor inlet ducts. 2,646,211, July 21.

Isella, John J., North Haven, assignor to National Folding Box Company, Inc., New Haven, Conn. Sheet edge trimmer for printing presses. 2,645,995, July 21.

Ito, Hiroshi, Setagaya-ku, Tokyo, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan. High aperture four component objective of the Gauss type. 2,645,973, July 21.

Ito, Hiroshi, Setagaya-ku, Tokyo, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan. High aperture wide angle six element Gauss type objective lens system. 2,645,974, July 21.

Ito, Hiroshi, Setagaya-ku, Tokyo, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan. High aperture wide angle four component Gauss type objective. 2,645,975, July 21.

Ivy, Jessie T., Seattle, Wash. Telescope mounting for rifles. 2,645,855, July 21.

Iwan, Lillian V., Brisbane, Calif. Passive vascular exerciser. 2,646,038, July 21.

Jacks, Robert L., and G. L. Carter, Baton Rouge, La., assignors to Standard Oil Development Company. Two-pass high-pressure reactor. 2,646,347, July 21.

Jackson, Frank L., Cincinnati, and J. C. Bayer, Sharonville, assignors to The Procter & Gamble Company, Cincinnati, Ohio. Making white soap. 2,646,435, July 21.

Jackson, Robert L., Lubbock, Tex. Apparatus to separate cottonseed from a neutralizing agent. 2,646,170, July 21.

Jackson, Robert L., Lubbock, Tex. Cottonseed delinting apparatus. 2,646,208, July 21.

Jacquier, Pierre A. C., Paris, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France. Fabrication of storage battery plates. 2,646,456, July 21.

Jacquier, Pierre A. C., Paris, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France. Electrode for alkaline batteries. 2,646,457, July 21.

Jalbert, Jean H., Paris, France. Thermal motor with injection cylinder. 2,646,026, July 21.

James Manufacturing Company, assignee: *See*— Olson, John B.

Jeannin, Robert A. A., Paris, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France. Electrolytic cell and battery. 2,646,455, July 21.

Jeffrey Manufacturing Company, The, assignee: *See*— Crystal, John.

Jenkins, Russell L., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Halogenated aromatic hydrocarbon dielectric containing diphenyl tin diethylate as a scavenger. 2,646,403, July 21.

Jennings, Garland R., Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rigid thermoplastic compositions comprising vinyl halide polymers with interpolymers of styrene and acrylonitrile. 2,646,417, July 21.

Jennings, Jarvis S., assignor to Hoof Products Company, Chicago, Ill. Variable speed centrifugal governor for internal-combustion engines and the like. 2,646,269, July 21.

Jensen, Ernest P.: *See*—
Green, Ralph V., and Jensen.

Jensen, Frederick H., Seattle, Wash. Fish fillet splitting and skinning machine. 2,645,812, July 21.

Jobert, Arthur H., assignor to The New Britain Machine Company, New Britain, Conn. Magazine stock reel. 2,646,087, July 21.

Joffe, Jack D., Hopewell, and L. J. Beckham, Bermuda District, Va., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Preparing oxamide. 2,646,448, July 21.

Johnson, Ancle L., Indianapolis, Ind. Magnetic coupling. 2,645,878, July 21.

Johnson, Frederick O., Chicago, Ill. Control device. 2,646,487, July 21.

Johnson, Harry N., assignor to The Geist Manufacturing Company, New Haven, Conn. Blind stitcher. 2,646,015, July 21.

Johnson, Kenneth W., Dayton, Ohio. Variable duration shock testing machine. 2,645,931, July 21.

Johnson, Lee N., Seattle, Wash. Antiskid tire chain. 2,646,099, July 21.

Johnson, Theodore A.: *See*—
Brown, Gardner L., and Johnson.

Johnson, William H., Washington, D. C. Pattern for vertical casting systems. 2,645,829, July 21.

Johnson, William H., Washington, D. C. Pattern for horizontal casting systems. 2,645,830, July 21.

Johnston, Daniel S., Rolling Hills, assignor to Signal Oil and Gas Company, Los Angeles, Calif. Directional drilling. 2,646,253, July 21.

Johnston, Daniel S., Rolling Hills, assignor to Signal Oil and Gas Company, Los Angeles, Calif. Controlling deviation in drilling. 2,646,254, July 21.

Jones, Cable B., Black Hawk, S. Dak. Tie bar for insulated concrete walls. 2,645,929, July 21.

Jones, George M., Salt Lake City, Utah. Self-cleaning conveyer. 2,646,159, July 21.

Jones & Lamson Machine Company, assignee: *See*—
Longe, Nelson R.

Jones, Troy L., Columbia, S. C. Drinking tube. 2,646,311, July 21.

Jones, William H.: *See*—
Clark, Robert L., and Jones.

Joy Manufacturing Company, assignee: *See*—
Goodrich, Ross H., and Densmore.

Kaikow, Irving, Swampscott, L. E. Hildebrand, and A. F. Lukens, Marblehead, Mass., assignors to General Electric Company. Dynamoelectric machine clutch and brake. 2,646,519, July 21.

Kamlet, Jonas, Easton, Conn., assignor to American Potash & Chemical Corporation, Trona, Calif. Manufacture of boron phosphate. 2,646,344, July 21.

Kappeler, Markus, W. Steinemann, and W. Wehrli, assignors to Sandoz A. G., Basel, Switzerland. Disazo dyestuffs. 2,646,338, July 21.

Kary, Roland M., Metuchen, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Organic arseno polysulfides. 2,646,440, July 21.

Kaufman, William, Great Neck, N. Y. Marking instrument. 2,645,853, July 21.

Kaye, Emmanuel, assignee: *See*—
Arnof, Alfred E. R.

Kearney, James R., Corporation, assignee: *See*—
Runde, Kenneth R.

Kearny, Philip A., Baton Rouge, La. Venetian shade. 2,646,114, July 21.

Keith Blackman Limited, assignee: *See*—
Tavener, Ernest E.

Kellie, Edward P., Detroit, Mich. Pressure regulating valve. 2,645,884, July 21.

Kellie, Edward P., Detroit, Mich. Oil level equalizing device for multiple compressor arrangement. 2,646,212, July 21.

Kelly, Clyde W., assignor to Detroit Steel Products Company, Detroit, Mich. Lock and bolt operating mechanism for psychiatric screens. 2,645,924, July 21.

Kemp, Harold S.: *See*—
Hughes, Jesse E., Kemp, and Pyle.

Kendall Company, The, assignee: *See*—
Gillespie, Robert H.

Kendall, Marcus T., Long Beach, Calif., assignor to The Texas Company, New York, N. Y. Hydrocarbon synthesis. 2,646,442, July 21.

Kennedy, Benjamin H., Pittsford, N. Y. Infant's bathing device. 2,645,782, July 21.

Kiddie Seat Corporation, assignee: *See*—
Bergman, Ed.

Kiler, Hugh A., Monrovia, Calif. Magnetic pot holder. 2,645,776, July 21.

King, Barry C., Jr., Collingswood, N. J., assignor to Radio Corporation of America. Amplitude linearity measurement. 2,646,545, July 21.

King-Seeley Corporation, assignee: *See*—
Gaskell, Walter L.

Kirby, James B., West Richfield, assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio. Combined washing and extracting machine. 2,645,917, July 21.

Kircher, Ralph N., West Bend, R. C. Heidner and W. B. Burkett, Hartford, assignors to West Bend Aluminum Co., West Bend, Wis. Resilient tilting lock for outboard motors. 2,646,238, July 21.

Kirkby, Norman O.: *See*—
Russell, Edward A., and Kirkby.

Kiss, Joseph D., Detroit, Mich. Rolling mill. 2,646,103, July 21.

Klabunde, Otto, Chicago, Ill. Floating belt. 2,645,791, July 21.

Kleist, Dudley C., Portland, Oreg. Apparel holder for coat hangers. 2,646,105, July 21.

Kluck, Theodore W., Houston, Tex. Two-way jack shaft assembly with dado adapter for portable electric saws. 2,646,090, July 21.

Knee, Simon, Newark, N. J., and G. Markus, Brooklyn, N. Y., assignors to Aristocrat Leather Products, Inc. Combined wallet and purse. 2,646,096, July 21.

Kneisley, Joseph W., Marshallton, assignor to Hercules Powder Company, Wilmington, Del. Maleic polyester compositions. 2,646,410, July 21.

Knoll Associates, Inc., assignee: *See*—
Knoll, Florence S., and Niedringhaus.

Knoll, Florence S., and C. W. Niedringhaus, assignors to Knoll Associates, Inc., New York, N. Y. Sofa bed with shiftable back. 2,645,788, July 21.

Knowles, Edwin C.: *See*—
Hutcheson, John W., and Knowles.

Kochaver, Theodore J., Virginia, Minn., assignor to United States Steel Corporation. Apparatus for operating railway dump cars. 2,645,964, July 21.

Kohl, Jerome, Berkeley, E. G. Reid, Palo Alto, and L. R. Zumwalt, Lafayette, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Snap sampler. 2,645,940, July 21.

Kohlmann, Hans, Esslingen (Neckar), and G. Zellbeck, Oberesslingen (Neckar), assignors to J. Eberspacher, Esslingen (Neckar), Germany. Turbocompressor. 2,646,210, July 21.

Koll, Andrew J., assignor to Bendix Aviation Corporation, Baltimore, Md. Window for panels. 2,645,827, July 21.

Kolligaard, Reyner, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Solids lift disengager. 2,646,316, July 21.

Kolpe, Olof R., Kil, and O. B. Andersson, Forshaga, Sweden. Log debarking machine having whirling and rotating bark-removing tools. 2,646,092, July 21.

Korns, Donald W., Johnstown, Pa. Dishwashing machine. 2,646,056, July 21.

Kraay, Robert A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Brushing apparatus. 2,645,797, July 21.

Kraft Foods Company, assignee: *See*—
Linstedt, William F.

Krakenberg, Charles G., assignor to Checkmaster Systems Inc., New York, N. Y. Printing machine. 2,645,996, July 21.

Kramer, Clarence F., Birmingham, assignor to Ford Motor Company, Detroit, Mich. Hood latch. 2,646,299, July 21.

Kroeger, Wilbur E., Davis, Calif. Flash unit for starters' guns. 2,646,560, July 21.

Kronoff, Clarence R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Paper indicated dobby. 2,646,080, July 21.

Krueger, Elmer E.: *See*—
Smith, Arthur L., and Krueger.

Krone, Elbert C., Opportunity, Wash. Air current deflector. 2,646,257, July 21.

Kuljian, Harry A., Merion, Pa. Thread processing reel having means for engaging the convolutions of a thread wound thereon. 2,645,919, July 21.

Kuljian, Harry A., Merion, Pa. Apparatus for treating thread. 2,645,918, July 21.

Kuntz, Wellington W., Jr., Westfield, N. J., assignor to Air Reduction Company, Incorporated. Retort for heating the edge of skelp in the manufacture of welded pipe or tubing. 2,646,207, July 21.

Kush, Warren J.: *See*—
Atwood, Seth B., and Kush.

Kushner, Samuel: *See*—
Dalalian, Harry P., and Kushner.

Kytola, Almo J., Park River, N. Dak. Vehicle push block attachment. 2,646,287, July 21.

Laakso, Thomas T. M.: *See*—
Allen, Charles F. H., and Laakso.

Labastie, Albert H., West Medford, Mass., assignor to General Electric Company. Clutch and brake mechanism for dynamoelectric machines. 2,646,520, July 21.

Lambach, Fritz, Tenafly, assignor to Robert Reiner, Inc., Weehawken, N. J. Beaming machine. 2,645,838, July 21.

Landers, Victor G., North Warren, Pa. Cribbage board. 2,646,221, July 21.

Landry, Horace G., Oneonta, N. Y. Switch for signaling device for stokers and the like. 2,646,476, July 21.



Lang, John L., assignor to The Dow Chemical Company, Midland, Mich. Polymerizing monovinyl aromatic compounds with rubber. 2,646,418, July 21.

Langer, Nicholas, New York, N. Y. Heat sealing machine. 2,646,105, July 21.

Lapsley, Bernard T.: *See*—
Black, Robert F., Jr., and Lapsley.

Lark-Horovitz, Karl: *See*—
Benzer, Seymour, and Lark-Horovitz.

Lassiat, Raymond C., Swarthmore, and R. T. Savage, Riddley Park, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Handling fluent particles. 2,646,407, July 21.

Law, Peter L., Roseville, near Sydney, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Article dispensing system. 2,646,217, July 21.

Laxo, Ed, Oakland, Calif. Vertically adjustable drafting board table. 2,646,322, July 21.

Layland, William: *See*—
Bareham, Eric G., and Layland.

Layton, Arthur C., Tyler, Tex. Machine for compression of fluids. 2,646,207, July 21.

Layton, Arthur C., Tyler, Tex. Machine for compression of gases, vapors, and liquids. 2,646,208, July 21.

Lea, Peggy J., Kansas City, Mo., assignor to Phillips Petroleum Company. Low-water-loss cement slorry. 2,646,360, July 21.

Leary, Joseph C., Greenfield, Ind. Bale twine tie. 2,645,840, June 21.

Leary, Joseph C., Greenfield, Ind. Knot tying. 2,646,298, July 21.

Leber, Benjamin F., Chicago, Ill. Stake body. 2,646,310, July 21.

Lee, Matthew E., South Bend, Ind. Cord gripping device. 2,645,832, July 21.

Lee-Tex Rubber Products Corporation of California, Inc., assignee: *See*—
Smith, Arthur L., and Krueger.

Leece, John B., University Heights, assignor to The Leece-Neville Company, Cleveland, Ohio. Apparatus for removing insulation from the terminal leads of electrical members. 2,645,796, July 21.

Leece-Neville Company, The, assignee: *See*—
Gilchrist, Albert D.
Leece, John B.

Leeman, Jan N. J.: *See*—
Fox, Willem C., and Leeman.

Leeson, Meldon G., York, Pa., assignor to Flakice Corporation of Delaware, Brooklyn, N. Y. Ice-making apparatus and method. 2,645,910, July 21.

Legg, Robert, Limited, assignee: *See*—
Schreiber, Patrick Q. R.

Lehr, James C.: *See*—
Bruner, Walter M., and Lehr.

Lekan, Vincent: *See*—
Fuchs, William F., and Lekan.

Leland-Gifford Company, assignee: *See*—
Hirvonen, Eric J.

Leland Stanford Junior University, The Board of Trustees of The, assignee: *See*—
Varian, Russell H., Hansen, and Woodyard.

Lendved, John W., and E. A. C. Eickstaedt, assignors to Chain Belt Company, Milwaukee, Wis. Motor control mechanism for concrete mixer power plants. 2,645,947. July 21.

Les Laboratories Dausse (Societe Anonyme), assignee: *See*—
Chabrier, Pierre, Giudicelli, and Génot.

Lesniak, Stanley J., Chicago, Ill. Two-directional dynamic braking circuit. 2,646,541, July 21.

Lewenstein, Moses J., Richmond Hill, N. Y. Pharmaceutical product for dysmenorrhea. 2,646,385, July 21.

Lewis, John R.: *See*—
Uhlig, Eric J., and Lewis.

Lewis, Alexander J., Cicero, Ill. Induction motor of the capacitor type. 2,646,537, July 21.

Lewis, Alexander J., Cicero, Ill. Induction motor of the capacitor type. 2,646,538, July 21.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Bassler, Gerald C.

Lidmalm, Tord N. G., and N. F. L. Bengtsson, assignors to Svenska Aeroplan Aktiebolaget, Linkoping, Sweden. Trimable servo tab with balanced, antibalanced, and spring tab action intended especially for aircraft. 2,646,234, July 21.

Lien, Arthur P.: *See*—
Arnold, Robert C., and Lien.

Linderme, Theodore G., Detroit, Mich. Torque limiting drive for multiple drill and tapping heads. 2,646,149, July 21.

Linstedt, William F., Plymouth, Wis., assignor to Kraft Foods Company, Chicago, Ill. Boxmaking machine. 2,645,984, July 21.

Löbbert, Anton, Ütfort uber Moers, Germany. Device for dustless drilling in the rock of mines. 2,646,256, July 21.

Lockwood, Daniel C., South Pasadena, assignor to C. F. Braun & Co., Alhambra, Calif. Multiple flow column. 2,646,266, July 21.

Loftin, Charles C., Cincinnati, Ohio. Crib. 2,645,786, July 21.

Long, Harry C., assignor to Reliance Manufacturing Company, Incorporated, Portland, Oreg. Pot-type oil burner and igniter. 2,646,111, July 21.

Long, John H., Flushing, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Balanced multichannel amplifier for wide amplitude range. 2,646,469, July 21.

Longe, Nelson R., assignor to Jones & Lamson Machine Company, Springfield, Vt. Toolholder. 2,645,844, July 21.

Lorenzo, Louis: *See*—
Sejman, Edmund L., and Lorenzo.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation. Transversely slotted metal belt for conveying and guiding strip traveling at high speed. 2,646,161, July 21.

Lowey, Francis J.: *See*—
Wellman, Samuel K., and Lowey.

Lukens, Alan F.: *See*—
Kaikow, Irving, Hildebrand, and Lukens.

Lyeso, George, Wendel, W. Va. Combined smoking device and flashlight. 2,646,051, July 21.

Lynch, Leslie, Bell, Calif., assignor of twenty-one percent to R. E. Bletcher, three percent to P. Bletcher, sixteen percent to H. E. Skinner, twenty-two and one-half percent to W. G. Porter, and seven and one-half percent to I. A. Ward. Direct current amplifier. 2,646,515, July 21.

Lytton, Kenneth G., Charlotte, N. C. Blending hopper. 2,645,820, July 21.

M and B Metal Products Company, assignee: *See*—
Brekle, Oliver R.

Maas, Theodore J., Detroit, Mich., assignor, by mesne assignments, to The Thew Shovel Company, Lorain, Ohio. Loading and unloading apparatus. 2,646,182, July 21.

Machlett Laboratories, Incorporated, assignee: *See*—
Doolittle, Howard D.

MacLaren, Frederick H.: *See*—
Pramuk, Edward M. B., and MacLaren.

MacLaren, Frederick H., Munster, Ind., assignor to Standard Oil Company, Chicago, Ill. Testing of plastic flow. 2,645,932, July 21.

MacMullen, Clinton W., Fayetteville, R. C. Shaver, and R. L. Titus, Syracuse, N. Y., assignors to Cowles Chemical Company, Cleveland, Ohio. Treatment of papermaking fibers with organosilicon compounds. 2,646,373, July 21.

Macomson, Wistar W.: *See*—
Bates, Arthur H. Jr., Bobo, Mullinax, and Macomson.

MacPheat, Alexander M., Indianapolis, Ind., assignor to Western Electric Company, Incorporated, New York, N. Y. Stop gauge for a punching apparatus. 2,646,122, July 21.

Magic Chef, Inc., assignee: *See*—
Brodbeck, Almer H.

Mallinckrodt Chemical Works, assignee: *See*—
Homeyer, August H.

Malm, Carl J., and L. W. Blanchard, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Manufacture of cellulose acetate with sulfoacetic pretreatment. 2,646,429, July 21.

Manley, John C., Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Electronic counter. 2,646,534, July 21.

Marchand, André, Bern, Switzerland, assignor to The Race Finish Recording Company Limited, London, England. Time recording device. 2,646,334, July 21.

Marchisio, Robert G., Wenham, assignor to Sylvania Electric Products Inc., Salem, Mass. Supporting latch for lighting fixtures. 2,646,498, July 21.

Marco, Frederick J., Des Plaines, Ill. Television tuner. 2,646,513, July 21.

Marconi's Wireless Telegraph Company Limited, assignee: *See*—
Mortley, Wilfrid S.

Markus, George: *See*—
Knee, Simon, and Markus.

Marro, Domenico A., Rutland, Vt. Air-heating furnace with baffled annular air-heating passageway. 2,646,033, July 21.

Martin, George E., Chicopee, Mass. Fan. 2,646,213, July 21.

Martin, George L., Elmwood, Conn. Restraining device. 2,645,922, July 21.

Martin, Philip, North Hollywood, assignor to Foster's Freeze National Corporation, Los Angeles, Calif. Frozen mix making device. 2,645,911, July 21.

Martinelli, Ernest A., Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,646,507, July 21.

Maryan, Harry O., Chicago, Ill. Circumcision clamp. 2,646,046, July 21.

Maschinenfabrik Augsburg-Nurnberg A. G., assignee: *See*—
Sörensen, Emil, and Scharf.

Mathes, Robert H., Washington, D. C. Symmetrical sweep centering control. 2,646,527, July 21.

Matrot, Louis, Noyers St. Martin, France. Clutch enabling simultaneous and/or selective control of more than one driven shaft. 2,646,148, July 21.

Matthews, Howard W.: *See*—
Berger, Emil J., and Matthews.

Mauchly, John W.: *See*—
Eckert, John P., Jr., and Mauchly.

Maxwell, Charles W. O., Taranaki, New Zealand. Bale loading attachment for vehicles. 2,646,181, July 21.

Mayer, Oscar, & Co., Inc., assignee: *See*—
Selferth, Oscar E.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McArron, Roger A., Somerset, Ohio. Variable resistance auxiliary electrical receptacle for electrical lighting appliances. 2,646,489, July 21.

McConnell, Frank J., and I. J. Fletcher, assignors to The American Hardware Corporation, New Britain, Conn. Lock mechanism. 2,645,927, July 21.

McGarry, James A., New Brunswick, N. J., assignor to Permacel Tape Corporation. Adhesive sheets. 2,646,371, July 21.

McGee, Leland T., Los Angeles, Calif. Tractor dirt handling attachment. 2,645,866, July 21.

McGuigan, William D., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Phase-type direction finder system. 2,646,586, July 21.

McIntosh, Frank H., Chevy Chase, Md. Wide band amplifier. 2,646,467, July 21.

McKee Door Company, assignee: *See*—
McKee, John F., and Hartzler.

McKee, John F., Aurora, and M. E. Hartzler, Downers Grove, assignors to McKee Door Company, Aurora, Ill. Hinge for multisection overhead doors. 2,645,807, July 21.

McKee, Robert C.: *See*—
Skalnusky, Marvin F., Root, and McKee.

McKenney, Henry F.: *See*—
Newell, William H., McKenney, and Scheuer.

McLaughlin, James L. A., La Jolla, Calif. Single-side-band radio equipment. 2,646,499, July 21.

McLean, Robert E., Columbus, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Takedown type swingable wall bracket. 2,646,241, July 21.

Mead, George D., Crows Landing, Calif. Pipe wrench with ratchet-controlled movable jaw. 2,645,966, July 21.

Medearis, James F., Ventura, Calif. Installation tool for casing protectors. 2,646,249, July 21.

Meinhardt, John W., Dallas, Tex., assignor to Gaylord Container Corporation, St. Louis, Mo. Container with insert. 2,646,201, July 21.

Melander, Raymond C., Ballston Spa, N. Y. Cord reinforced base for floral designs and making same. 2,645,872, July 21.

Mendelson, Hans, Camden, N. J., assignor to Radio Corporation of America. Adjustable drive cord tension device. 2,645,943, July 21.

Merck & Co., Inc., assignee: *See*—
Clark, Robert L., and Jones.

Mergen, Joseph M., Verona, and H. Murphy, Glen Ridge, N. J., assignors to Curtiss-Wright Corporation. Propeller pitch change mechanism. 2,646,131, July 21.

Mermelstein, Morris, Schodack Center, N. Y. Device for ejecting cigar and cigarette butts and ashes from automobiles. 2,646,164, July 21.

Meyer-Balzer Fuel Unit, Incorporated, assignee: *See*—
Meyer, David.

Meyercord Company, The, assignee: *See*—
Porth, Frank L.

Meyer, Curtis E.: *See*—
Wachtel, Louis W., and Meyer.

Meyer, David, Canton, assignor to Meyer-Balzer Fuel Unit, Incorporated, Dover, Ohio. Fuel burner liner. 2,646,376, July 21.

Meyer, Ely, assignor to United Paper Company, Tampa, Fla. Bulge packing of fruit. 2,646,198, July 21.

Myercord Co., The, assignee: *See*—
Poschel, Alfred B.

Micafil A.-G., assignee: *See*—
Bräm, Alfred.

Michna, Edward N., Chicago, Ill. Universal link conveyer chain. 2,646,160, July 21.

Miller, Edward M., assignor to The C. L. Gougler Machine Company, Kent, Ohio. Combination controlled night latch. 2,645,925, July 21.

Miller, Harry E., Buffalo, W. Va. Valve stem grinding machine. 2,645,887, July 21.

Miner, Carl S., Jr., Winnetka, and B. Wolnak, Chicago, Ill., assignors to Sewerage Commission of the City of Milwaukee, Milwaukee, Wis. Preparing vitamin $B_{12}$ active product from sewage sludge. 2,646,386, July 21.

Mirrlees Watson Company Limited, The, assignee: *See*—
Watson, Frederick W. H.

Mitchell, Merritt M., Rochester, N. Y. Safety speed alarm. 2,646,017, July 21.

Modern Equipment Company, assignee: *See*—
Goldberg, Max W.

Molins, Desmond W., assignor to Molins Machine Company Limited, Deptford, London, England. Method of and apparatus for making mouthpiece cigarettes. 2,646,048, July 21.

Molins Machine Company Limited, assignee: *See*—
Molins, Desmond W.

Mone, Frank S.: *See*—
Hutten, Maxwell W., and Mone.

Monroe Auto Equipment Company, assignee: *See*—
Thompson, Keith R.

Monsanto Chemical Company, assignee: *See*—
Jenkins, Russell L.
Nickerson, Ralph F.

Montres Rolex S. A. (Rolex Watch Co. Ltd.), assignee: *See*—
Huguenin, Marc P.

Moon, Charles R., assignor to Ontario Manufacturing Company, Muncie, Ind. Arc welding machine. 2,646,493, July 21.

More, Arthur R., Caterham, assignor to H. W. Wallace & Company Limited, Croydon, England. Apparatus for measuring the hardness of materials. 2,645,934, July 21.

Morehouse, Eugene, Providence, R. I., assignor to B. A. Ballou & Co., Incorporated. Safety catch. 2,645,834, July 21.

Morgan, Paul W., Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Synthetic linear condensation polymers containing phosphorus. 2,646,420, July 21.

Morin, Louis H., Bronx, N. Y., assignor to Coats & Clark Inc. Producing plastic rimmed spools. 2,646,378, July 21.

Morris, John N., assignor to The S. U. Carburetter Company Limited, Birmingham, England. Self-feeding carburetor for internal-combustion engines. 2,646,264, July 21.

Morrison, Willard L., Lake Forest, Ill. Clothes drier. 2,645,863, July 21.

Morrow, Marvin E., Tulsa, Okla. Galvanometer having balanced coil assembly. 2,646,546, July 21.

Mortley, Wilfrid S., Great Baddow, Chelmsford, assignor to Marconi's Wireless Telegraph Company Limited, London, England. Piezoelectric crystal oscillator. 2,646,509, July 21.

Mosaberg Pressed Steel Corporation, assignee: *See*—
Olson, Robert V.

Mover, Hyman, deceased, Marblehead, Mass., R. C. Mover, M. Kahn, and S. H. Rubin, executors, assignors to Bunny Bear, Inc., Everett, Mass. Baby's bath seat. 2,645,781, July 21.

Mullinax, Charles F.: *See*—
Bates, Arthur H., Jr., Bobo, Mullinax, and Macomson.

Mullins Manufacturing Corporation, assignee: *See*—
Stanitz, Jacques.

Munck af Rosenschöld, John R., Saltsjobaden, assignor to Aktiebolaget Atlas Diesel, Sickla, near Stockholm, Sweden. Compressor plant. 2,646,304, July 21.

Munck af Rosenschöld, John R., Saltsjobaden, assignor to Aktiebolaget Atlas Diesel, Sickla, near Stockholm, Sweden. Compressor plant. 2,646,205, July 21.

Mundo, Louis J., Chicago, Ill. Sectional brush assembly. 2,645,802, July 21.

Murphy, Howard: *See*—
Mergen, Joseph M., and Murphy.

Murphy, William H., Chicago, Ill. Convertible chair. 2,646,107, July 21.

Musselman, Glenn H., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. System for synchronizing series of recurring pulse emissions. 2,646,510, July 21.

Naftali, Esther: *See*—
Naftali, Rudolph and E.

Naftali, Rudolph and E., New Rochelle, N. Y. Combination collar and necktie. 2,645,777, July 21.

Nagle, Floyd B.: *See*—
Wehr, Henry W., and Nagle.

Napier, D., & Son Limited, assignee: *See*—
Samuons, Herbert.

Nash-Kelvinator Corporation, assignee: *See*—
Philipp, Lawrence A.
Wahlberg, Nils E., and Hedstrom.

Nassau Distributing Co., Inc., assignee: *See*—
Futterknecht, Rudolf.

National Autostitch Corporation, assignee: *See*—
Dugin, Leo J.

National Cash Register Company, The, assignee: *See*—
Davis, Chester, and Thacker.

National Cylinder Gas Company, assignee: *See*—
Droste, Paul F., and Hill.

National Folding Box Company, Inc., assignee: *See*—
Iselin, John J.

National Machinery Company, The, assignee: *See*—
Friedman, John H.

National Publishing Company, assignee: *See*—
Bostwick, Wallace L.

National Steel Corporation, assignee: *See*—
Gullas, Joseph G.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Arenberg, David L.
Goodell, Warren F., Jr.
Gregg, Earle C., Jr.
Long, John H.
Musselman, Glenn H.
Stabler, Howard P.
Wilson, Volney C.
Winter, David F.

Neer, Clifford H., assignor to Burt Machine Company, Inc., Baltimore, Md. Elevator divider. 2,646,156, July 21.

Neilsen, Hildaur L., assignor to M. J. Fels, Metuchen, N. J. Coin box loader. 2,646,055, July 21.





Nelson, Eric, Madison, N. J., assignor to the United States of America as represented by the Secretary of the Army. Making low-temperature meteorological balloons. 2,646,370, July 21.

Nelson, Norman A., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Apparatus for introducing fluid into sub-surface formations. 2,646,123, July 21.

Nemetz, Gustav, deceased, Vienna, Austria, by V. Nemetz, administratrix, assignor to Alex. Friedman, Kommandit-Gesellschaft, Vienna, Austria. One-way valve, particularly for lubricating systems. 2,646,066, July 21.

Nemetz, Valerie, administratrix: *See*—
Nemetz, Gustav.

Neudeck, Joseph E., Union, N. J., assignor to Standard Oil Development Company. Gasoline fuels containing dimethyl carbinol and solvent oil. 2,646,348, July 21.

New Britain Machine Company, The, assignee: *See*—
Jobert, Arthur H.
Retz, William R.

Newell, William H., New York, H. F. McKenney, Flushing, and L. J. Scheuer, Farmingdale, N. Y., assignors to The Sperry Corporation. Distortionless electrical resolver. 2,646,218, July 21.

Nickerson, Ralph F., Marblehead, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Treating natural cellulose textiles to partially esterify them and then treating with a resin condensation product and products resulting therefrom. 2,646,340, July 21.

Niederer, Herbert O.: *See*—
Niederer, Otto C., H. O., and Otto.

Niederer, Otto: *See*—
Niederer, Otto C., H. O., and Otto.

Niederer, Otto C., H. O., and Otto, Titusville, N. J. Discharge device for weighing mechanism. 2,646,168, July 21.

Niedringhaus, Charles W.: *See*—
Knoll, Florence S., and Niedringhaus.

Nixon, Jeddy D., New Braunfels, assignor of one-half to Wilson Supply Company, Houston, Tex. Automatic well flow valve. 2,646,062, July 21.

Nobie & Wood Machine Company, The, assignee: *See*—
Roberson, Cyrus E.

Noguera, Joseph, Salford, assignor to Casablancas High Draft Company Limited, Salford, Manchester, England. Drafting mechanism for textile fibers. 2,645,823, July 21.

Noll, Paul E.: *See*—
Aller, T. Dwight, and Noll.

Nordsieck, Arnold T., New York, N. Y., assignor to United States of America as represented by the Secretary of War. Strapped magnetron and method of strapping. 2,645,843, July 21.

Norman, Harry H., assignor to Zig Zag Spring Company, Los Angeles, Calif. Spring. 2,646,108, July 21.

North American Aviation, Inc., assignee: *See*—
Anderson, Gordon H.

Northwest Concrete Products Co., assignee: *See*—
Schlough, Leon H. and W. E.

Norwine, Andrew C.: *See*—
Davis, Kingsbury H., and Norwine.

Noschis, Kaj W. W., Stockholm, assignor to G. Schonander, Grondal, Sweden. Roentgen apparatus. 2,646,514, July 21.

Nussbaum, Albrt, Montigny-les-Metz, France, and O. A. Becker, Saarbrucken, Germany; said Becker assignor to said Nussbaum. Device for storing and conveying containers. 2,646,177, July 21.

Nutzler, Paul G. A., Sao Paulo, Brazil. Approach detection by high-frequency radiation. 2,646,559, July 21.

Nystrom, Karl F., Nashotah, Wis., assignor to International Steel Company, Evansville, Ind. Combined striking, casting, and bolster center filler for railway car construction. 2,646,010, July 21.

Obert, Maximilian J.: *See*—
Shaw, Hubert R., and Obert.

Office National d'Etudes et de Recherches Aeronautiques, assignee: *See*—
Périlhou, Pierre.

O'Halloran, Rosemary, Elizabeth, N. J., assignor to Standard Oil Development Company. Fibrous lubricating grease. 2,646,401, July 21.

Oilgear Company, The, assignee: *See*—
Ferris, Walter.

Olson, John R., assignor to James Manufacturing Company, Fort Atkinson, Wis. Community laying nest. 2,646,022, July 21.

Olson, Robert V., Attleboro, Mass., assignor to Mosaberg Pressed Steel Corporation. Head for spool, reel, and warp beams. 2,646,232, July 21.

Ontario Fire Prevention & Service, assignee: *See*—
Rycroft, Robert W.

Ontario Manufacturing Company, assignee: *See*—
Moon, Charles R.

Orchard, David W., Willoughby, Ohio. Cigarette protector. 2,646,049, July 21.

Orr, Howard S., Gary, Ind., assignor to United States Steel Corporation. Multiple rolling of strip. 2,645,842, July 21.

Orthoefer, Richard H.: *See*—
Benua, Louis P., Coulter, and Orthoefer.

Otto, Carl, Manhasset, N. Y. Ammonia saturator and tar removal apparatus. 2,646,345, July 21.

Ouellette, Clarence, Springfield, assignor to Wrap-King Corporation, West Springfield, Mass. Label machine. 2,646,184, July 21.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Stalego, Charles J.

Owens-Illinois Glass Company, assignee: *See*—
Gronemeyer, Erich W.
Pellett, Fred G.

Pacific Mills, assignee: *See*—
Bates, Arthur H., Jr., Bobo, Mullinax, and Macomson.

Padgett, Grady, Beaver, Pa. Charging car. 2,646,395, July 21.

Paffen, Fred W., Great Neck, N. Y., and E. M. Engel, Bergenfield, N. J., assignors to Celanese Corporation of America, New York, N. Y. Carton for yarn packages. 2,646,186, July 21.

Pages, André P.: *See*—
Ville, Jean A., Pages, and Herreng.

Parker, Earl E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Inhibition of gelation in unsaturated polyesters with salts of amines. 2,646,416, July 21.

Parker Industrial Products, Inc., assignee: *See*—
Hall, Jesse E.

Parmentier, Robert R., Upper Darby, Pa. Sealing composition for transparentized paper. 2,646,363, July 21.

Parmentier, Robert R., Upper Darby, Pa. Transparentising paper. 2,646,369, July 21.

Parrott, Robert D.: *See*—
Wise, Raleigh J., and Parrott.

Partridge, Lawrence R., Walnut Creek, Calif., assignor to United States Steel Corporation. Pass-line stabilizer for strip approaching a shear. 2,646,278, July 21.

Patelski, Ray A., Manhasset, N. Y., and P. P. Regna, West New York, N. J., assignors to Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Streptomycin 2-hydroxy-4-amino benzoate. 2,646,427, July 21.

Paterson, John C., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of thiosemicarbazide. 2,646,447, July 21.

Patrick, Joseph C., St. Petersburg, Fla., and H. R. Ferguson, Trenton, N. J., assignors, by mesne assignments, to Reconstruction Finance Corporation, Washington, D. C. Copolymers of polythiols, phenols, and aldehydes. 2,646,415, July 21.

Paulsen, Hans C., Medford, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Mechanism for filling dispensing guns. 2,646,199, July 21.

Peeps, Donald J., assignor to The De Vilbiss Company, Toledo, Ohio. Spray nozzle. 2,646,313, July 21.

Peeps, Donald J., assignor to The De Vilbiss Company, Toledo, Ohio. Spray nozzle. 2,646,314, July 21.

Pellett, Fred G., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Container closure. 2,646,183, July 21.

Pennsylvania Railroad Company, The, assignee: *See*—
Billstein, Arthur E. F.

Périlhou, Pierre, Clamart, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France. Radio navigation system. 2,646,564, July 21.

Perkel, Leo, Hartford, Conn. Multiple recording of information. 2,646,292, July 21.

Permacel Tape Corporation, assignee: *See*—
McGarry, James A.

Permafuse Corp., The, assignee: *See*—
Tilden, Sydney G., Jr.

Peterson, Delmont R., Mission, Kans. Surface grinder. 2,645,886, July 21.

Peterson, Russell W., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Staple cutter and method. 2,646,121, July 21.

Pfingston, Homer E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Thread forming method and apparatus. 2,645,954, July 21.

Pfizer, Chas., & Co., Inc., assignee: *See*—
Patelski, Ray A., and Regna.

Phalin, Harry O., Port Allegany, assignor, by mesne assignments, to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Material handling device. 2,646,307, July 21.

Philco Corporation, assignee: *See*—
Cheney, Oliver F.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Two-temperature refrigerator. 2,645,909, July 21.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Tiltable bin. 2,646,332, July 21.

Phillips Petroleum Company, assignee: *See*—
Condon, Francis E.
De Boisblanc, Deslonde R.
Lea, Peggy J.
Ryan, Martin A.

Pietrafesa, Joseph J., assignor to Jos. J. Pietrafesa Co., Inc., Syracuse, N. Y. Die for cutting coat collar parts. 2,646,120, July 21.

Pietrafesa, Jos. J., Co., Inc., assignee: *See*—
Pietrafesa, Joseph J.

Pioneer Specialty Company, assignee: *See*—
Gosline, Frederick V.

Pirelli Societa per Azioni, assignee: *See*—
Bedini, Nerino.
Boschi, Antonio.

Pitner, Lloyd E., Milwaukee, Wis. Binding books. 2,645,795, July 21.

Pittsburgh Plate Glass Co., assignee: *See*—
Gloyer, Stewart W.

Pittsburgh Plate Glass Company, assignee: *See*—
Parker, Earl E.
Phalin, Harry O.

Platz, Elwood T., assignor to BullDog Electric Products Company, Detroit, Mich. Circuit breaker actuator arrangement. 2,646,488, July 21.

Pohlman, William A., Horicon, Wis. Insect trap. 2,645,877, July 21.

Poirot, Eugene M., Golden City, Mo. Device which aerates water. 2,646,261, July 21.

Pollock, S. Wilson, Camp Hill, assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Lamp socket. 2,646,554, July 21.

Ponsar, Yves, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France. Apparatus for automatically regulating the flow of fluids. 2,646,060, July 21.

Porter, H. K., Inc., assignee: *See*—
Ferguson, William H.

Porter, William G., assignee: *See*—
Lynch, Leslie.

Porth, Frank L., Hillside, assignor to The Meyercord Company, Chicago, Ill. Producing reflecting films, decalcomanias, and signs. 2,646,364, July 21.

Poschel, Alfred B., assignor to The Meyercord Co., Chicago, Ill. Decorating an uncured rubber article. 2,646,379, July 21.

Pouzet, Georges L., assignor to Compagnie Generale d'Electricite, Societe Anonyme, Paris, France. Making graduated connecting links for diversely insulated electric cables. 2,645,819, July 21.

Powell, Burnet J., assignor to Houdaille-Hershey Corporation, North Chicago, Ill. Condenser. 2,646,259, July 21.

Pramuk, Edward M. B., Whiting, and F. H. MacLaren, Munster, Ind., assignors to Standard Oil Company, Chicago, Ill. Beam loader apparatus. 2,645,935, July 21.

Pray, Earl P., Gering, Nebr. Bolt holding tool. 2,645,960, July 21.

Priest, Henry M.: *See*—
Beebe, Gerald T., and Priest.

Priestley, Bruno S., New York, N. Y. Mechanical suturing device. 2,646,045, July 21.

Prince, Gerrit, West Olive, assignor to R. F. Becker, Kalamazoo, Mich. Cultivator attachment for tractors. 2,645,989, July 21.

Probert, William E., Spokane, Wash. Safety mitten. 2,645,778, July 21.

Procter & Gamble Company, The, assignee: *See*—
Jackson, Frank L., and Bayer.

Pummill, Edwin W., Indianapolis, Ind. Lock nut assembly. 2,646,098, July 21.

Purdue Research Foundation, assignee: *See*—
Benzer, Seymour, and Lark-Horovitz.

Pyle, Betty, executrix: *See*—
Pyle, Robert A.

Pyle, Cyrus: *See*—
Hughes, Jesse E., Kemp, and Pyle.

Pyle, Robert A., deceased, Lapeer, Mich.; B. Pyle, executrix. Rotary pump and motor fluid transmission. 2,645,902, July 21.

Pyles, Ira F., Fairview, Ill. Fire alarm switch. 2,646,480, July 21.

QSK Products Inc., assignee: *See*—
Quintilian, Bartholomew F.

Quarnstrom, Ivar T., New Haven, Mich. Ejector pin assembly for mold bases. 2,645,815, July 21.

Quintilian, Bartholomew F., Baltimore, Md., assignor to QSK Products Inc. Ice shaving machine. 2,646,223, July 21.

RCS Engineering Corporation, assignee: *See*—
Russell, Francis S.

R-S Products Corporation, assignee: *See*—
Hopkins, David W.

Race Finish Recording Company Limited, The, assignee: *See*—
Marchand, André.

Rada Products Company, assignee: *See*—
Sonderstrup, Christian A.

Radio Corporation of America, assignee: *See*—
Carne, Gerald G.
Glacoletto, Lawrence J.
Goldsmith, Alfred N.
Herbst, Philip J.
King, Barry C., Jr.
Mendelson, Hans.
Rajchman, Jan A.
Robinson, Kenneth W.
Romero, Robert F.
Schroeder, Alfred C.
Shaw, Hubert R., and Obert.
Sziklai, George C., and Darke.
Walner, Eugene.
Werenfels, Peter H., and Eckert.

Ragan, George L., Cambridge, and J. Reed, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Coaxial line terminating device. 2,646,549, July 21.

Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Color television picture tube. 2,646,521, July 21.

Rakieten, Morris L., Islip, assignor to Ryatan Company, Inc., Mount Vernon, N. Y. Therapeutic water-soluble chlorophyll-containing feed. 2,646,384, July 21.

Rand, H. J., Washing Machine Corp., assignee: *See*—
Rand, Henry J.

Rand, Henry J., assignor to H. J. Rand Washing Machine Corp., Bratenahl, Ohio. Liquid level control. 2,645,915, July 21.

Rasmussen, Martin B., Galveston, Tex. Gravel spreader. 2,645,986, July 21.

Raught, Arthur V., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Rear gang for tractor cultivators. 2,645,988, July 21.

Ray, William R., Los Angeles, Calif., assignor to General Controls Co. Circulator pump structure. 2,646,001, July 21.

Reconstruction Finance Corporation, assignee: *See*—
Manley, John C.
Patrick, Joseph C., and Ferguson.

Reed, John: *See*—
Ragan, George L., and Reed.

Regna, Peter P.: *See*—
Pateiski, Ray A., and Regna.

Reid, Elliott G.: *See*—
Kohl, Jerome, Reid, and Zumwalt.

Reid, Elliott G., Palo Alto, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Atmospheric dust collector. 2,645,941, July 21.

Reiner, Robert, Inc., assignee: *See*—
Lambach, F. itz.

Reliance Manufacturing Company, Incorporated, assignee: *See*—
Long, Harry C.

Remington Arms Company, Inc., assignee: *See*—
Crittendon, Lezie R., and Haskell.
Walker, Merle H.

Reo Motors, Inc., assignee: *See*—
Rosenberg, Paul H.

Resch, Victor, Sacramento, Calif. Dual wheel wrench. 2,645,965, July 21.

Research Corporation, assignee: *See*—
Beaver, Charles E.

Retz, William B., Plainville, assignor to The New Britain Machine Company, New Britain, Conn. Stop device for chucking means. 2,646,152, July 21.

Reynolds, John M., Shreveport, La. Drilling equipment. 2,646,128, July 21.

Rice, Earl A., Mercersburg, Pa. Fish bowl and hollow handle assembly. 2,646,021, July 21.

Rice, Homer F., Birmingham, Ala. Short fulcrum for weighing scale levers. 2,646,318, July 21.

Rice, John E., Jr.: *See*—
Davis, Charles S., and Rice.

Richard, Alphonse, assignor of thirty-five per cent to R. J. Veillet and fifteen per cent to R. Cloutier, St. Theele, Quebec, Canada. Automotive tire wheel. 2,646,315, July 21.

Richter, Max, Philadelphia, Pa. Animated skating device. 2,645,879, July 21.

Richter, Max, Philadelphia, Pa. Animated skating device. 2,645,880, July 21.

Ridenour, William P.: *See*—
Capell, Robert G., Ridenour, and Stewart.

Ringman, Bernice, Los Angeles, Calif. Coordination aid for walking. 2,646,282, July 21.

Ritsky, Louis, Philadelphia, Pa. Warp tension let-off device for looms. 2,646,081, July 21.

Robbins, Ralph I., Andover, Mass., assignor to American Felt Company, Glenville, Conn. Felt hardening machine. 2,645,837, July 21.

Roberson, Claude M., Shreveport, La. Crown block brake assembly. 2,646,251, July 21.

Roberson, Cyrus E., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y. Conical plug refiner. 2,645,983, July 21.

Roberts, Shepard, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Wave guide variable attenuator. 2,646,551, July 21.

Robinson, Kenneth W., Princeton, N. J., assignor to Radio Corporation of America. High-voltage system. 2,646,542, July 21.

Rockwell, Ronald J., assignor to Crosley Broadcasting Corporation, Cincinnati, Ohio. Amplifier control system. 2,646,472, July 21.

Roethel Engineering Corporation, assignee: *See*—
Roethel, John H.

Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Door lock. 2,646,300, July 21.

Romero, Robert F., Cos Cob, Conn., assignor to Radio Corporation of America. High-frequency tuner. 2,646,500, July 21.

Rommel, Richard H., Wilmington, Del., assignor to Sun Oil Company, Philadelphia, Pa. Continuous adsorption process. 2,646,451, July 21.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Hinge construction for receptacles composed of molded parts. 2,646,187, July 21.

Roos, Charles J., Muskegon, Mich. Window construction. 2,645,826, July 21.

Roos, Charles J., Muskegon, Mich. Building construction. 2,645,928, July 21.

Root, Carleton H.: *See*—
Skalmusky, Marvin F., Root, and McKee.





Rosenberg, Paul H., assignor to Reo Motors, Inc., Lansing, Mich. Sectional lawn mower handle. 2,645,808, July 21.

Ross, Joseph F., Glencoe, assignor to J. J. Tourek Mfg. Co., Chicago, Ill. Threading machine fixture. 2,645,794, July 21.

Rostler, Fritz S., Bakersfield, assignor to Golden Bear Oil Co., Los Angeles, Calif. Petroleum herbicide emulsions. 2,646,350, July 21.

Rostler, Fritz S., Bakersfield, assignor to Golden Bear Oil Co., Los Angeles, Calif. Dust-laying emulsion. 2,646,361, July 21.

Royce, Harvey D., assignor to The Southern Cotton Oil Company, Savannah, Ga. Winter vegetable oils and preparing the same. 2,646,356, July 21.

Rubin, Howard, executor: *See*—
Sternberg, Israel K.

Rundle, Kenneth R., Lemay, assignor to James R. Kearney Corporation, St. Louis, Mo. Cutting device. 2,645,848, July 21.

Rüsch, Gustav O. K.: *See*—
Christiansen, Christian, and Rüsch.

Russell, Edward A., Chicago, and N. O. Kirkby, Elmhurst, assignors to Vapor Heating Corporation, Chicago, Ill. Standby hot water heater for buses. 2,646,028, July 21.

Russell, Francis S., Joliet, Ill., assignor to RCS Engineering Corporation. Reciprocating saw blade with piercing means. 2,646,094, July 21.

Russell, George L., Fair Haven, Mich. Basket structure with stacking handles. 2,646,186, July 21.

Ryan, Martin A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Liquefied petroleum gas fuel system. 2,645,906, July 21.

Rycroft, Robert W., El Monte, Calif., assignor to Ontario Fire Prevention & Service, Toronto, Ontario, Canada. Support for fire extinguishers. 2,646,243, July 21.

Ryzian Company, Inc., assignee: *See*—
Rakieten, Morris L.

S. U. Carburetter Company Limited, The, assignee: *See*—
Morris, John N.

Saaf, Fritz A., Aurora, Ill., assignor to All-Steel Equipment Inc. Desk or table top construction. 2,646,327, July 21.

Sahli, Ernst A., Zurich, Switzerland, assignor to Bearn S.-A., Tangier, Morocco. Shock-damping buffer. 2,646,083 July 21.

Sammons, Herbert, Gerrards Cross, assignor to D. Napier & Son Limited, London, England. Reciprocating internal-combustion engine operating on the two-stroke cycle with exhaust turbine. 2,645,897, July 21.

Sampson, Herman J.: *See*—
Carnahan, James E., and Sampson.

Samuels, Stephen J., Nelson, New Zealand. Means for recording the order of finishing in contests. 2,646,558, July 21.

Sandoz A. G., assignee: *See*—
Kappeler, Markus, Steinemann, and Wehrli.

Sands, Matthew L., Pasadena, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Automatic temperature regulator. 2,646,544, July 21.

Sanford, Hugh W., Jr., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Latch tripping device. 2,646,179, July 21.

Sanford Investment Company, The, assignee: *See*—
Sanford, Hugh W., Jr.

Särenholm, Einar, Eskilstuna, assignor to Svartviks Aktiebolag, Sundsvall, Sweden. Hinge for windows. 2,645,811, July 21.

Sargent, Donald E., Easton, and W. F. Amon, Jr., Riegelsville, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Polyvinyl alcohol gels. 2,646,411. July 21.

Savage, Reuben T.: *See*—
Lassiat, Raymond C., and Savage.

Scharf, Herbert: *See*—
Sorensen, Emil, and Scharf.

Scheuer, Lewis J.: *See*—
Newell, William H., McKenney, and Scheuer.

Schild, A. S. A., assignee: *See*—
Dubois Georges.

Schiller, Arthur M.: *See*—
Suen, Tzeng J., and Schiller.

Schlanger, Samuel L., Brooklyn, N. Y. Vending machine mechanism. 2,646,153, July 21.

Schleif, Edwin H., Inwood, N. Y. Variable-speed pulley assembly. 2,645,946, July 21.

Schlitters, Michael J., Detroit, Mich. Knurling and burnishing tool holder. 2,645,953, July 21.

Schlough, Leon H., Waite Park, and W. E., assignors to Northwest Concrete Products Co., St. Cloud, Minn. Concrete block handling device. 2,646,180, July 21.

Schlough, Wesley E.: *See*—
Schlough, Leon H. and W. E.

Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation by modified aluminum halide catalyst. 2,646,452, July 21.

Schmidt, Benjamin F., Los Angeles, Calif. Diaphragm pump and system. 2,646,000, July 21.

Schmidt, Fred W., Jr., Cedar Grove, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Adjustable inductance. 2,646,553, July 21.

Schmitt, Carl M., Villa Park, Ill. Work holder supported and clamped between vise jaws. 2,645,963, July 21.

Schonander, Georg, assignee: *See*—
Noschis, Kaj W. W.

Schor, Joseph, San Francisco, Calif. Faucet for gas-charged liquids. 2,646,073, July 21.

Schreiber, Patrick Q. R., assignor to Robert Legg Limited, London, England. Machine for cutting tobacco and the like. 2,646,095, July 21.

Schroeder, Alfred C., Southhampton, Pa., assignor to Radio Corporation of America. Apparatus for reproducing images in color. 2,646,463, July 21.

Schultz, John, New Britain, Conn. Adjustable saw carrier holder. 2,645,950, July 21.

Schutt, Hermann C., Framingham Center, assignor to Stone & Webster Engineering Corporation, Boston, Mass. Method and apparatus for separating fluids. 2,646,133, July 21.

Schwartz, Harold H.: *See*—
Gantz, Harry, Schwartz, and Iasillo.

Scovill Manufacturing Company, assignee: *See*—
Huelster, Otto J., and D'Amico.

Sebald, Joseph F., Bloomfield, assignor to Worthington Corporation, Harrison, N. J. Selector valve for water treating apparatus. 2,646,072, July 21.

Seedorff, William A., Jr.: *See*—
Arend, Carl A., Jr., and Seedorff.

Sefing, Frederick G., Cranford, N. J., assignor to The International Nickel Company, Inc., New York, N. Y. Hardening alloy gray cast iron. 2,646,375, July 21.

Seidner, Orville R., Alhambra, Calif. Hairbrush. 2,645,801, July 21.

Selferth, Oscar E., Madison, Wis., assignor to Oscar Mayer & Co., Inc., Chicago, Ill. Package. 2,646,337, July 21.

Sejarto, Lester, Richmond Hill, and S. J. Stoll, Flushing, N. Y. Key duplicating machine. 2,645,978, July 21.

Sejman, Edmund L., Devon, and L. Lorenso, assignors to The Acme Shear Company, Bridgeport, Conn. Scissors pivot structure. 2,645,850, July 21.

Servel, Inc., assignee: *See*—
Pfingston, Homer E.

Sessions, Donald W., Lansing, Mich. Continuous progressive cylinder washer. 2,645,914, July 21.

Sewerage Commission of the City of Milwaukee, assignee: *See*—
Miner, Carl S., Jr., and Wolnak.

Sharp, John R., assignee: *See*—
Arnot, Alfred E. R.

Shaver, Richard C.: *See*—
MacMullen, Clinton W., Shaver, and Titus.

Shaw, Hubert R., Drezel Hill, Pa., and M. J. Obert, North Merchantville, N. J., assignors to Radio Corporation of America. Cathode-ray centering. 2,646,522, July 21.

Shawnee Industries, Inc., assignee: *See*—
Simblest, Allen L.

Sheridan Iron Works, The, assignee: *See*—
Hawkes, Thomas B.

Sheridan, T. W. & C. B., Company, assignee: *See*—
Hawkes, Thomas B.

Sherman, Roger M.: *See*—
Wittner, Edward E., and Sherman.

Shingledecker, Guy M., Tarentum, and G. C. Catulle, Natrona Heights, assignors to Allegheny Ludlum Steel Corporation, Brackenridge, Pa. Variable transformer. 2,646,552, July 21.

Shires, John M., Todmorden, and B. G. Foster, Manchester, England. Slub catcher for use on textile machinery. 2,645,839, July 21.

Shooter, Donald H.: *See*—
Bender, John H., and Shooter.

Sigler, Lawrence M., Washington, D. C. Dumping and washing mechanism for egg separating cups. 2,646,163, July 21.

Signal Oil and Gas Company, assignee: *See*—
Johnston, Daniel S.

Silva, Anthony R., San Jose, Calif. Casing machine. 2,646,197, July 21.

Simblest, Allen L., assignor to Shawnee Industries, Inc., Columbus, Ohio. Ventilator for buildings having pitched roofs. 2,645,992, July 21.

Sinclair Refining Company, assignee: *See*—
Wagner, Don A.

Skalmusky, Marvin F., Kimberly, C. H. Root, and R. C. McKee, assignors to The Institute of Paper Chemistry, Appleton, Wis. Testing sheet materials. 2,645,937, July 21.

Skinner, Hazel E., assignee: *See*—
Lynch, Leslie.

Skiver, Omar K.: *See*—
Bucher, Leon R., and Skiver.

Skuttle Manufacturing Company, assignee: *See*—
Bottum, Edward W.

Slonek, Frank G., Chicago, assignor to H. C. Hvid, Wilmette, Ill. Dry shaver. 2,645,847, July 21.

Smallegan, Marvin L., assignor to Automatic Poultry Feeder Company, Zeeland, Mich. Feed leveler. 2,646,024, July 21.

Smith, Arthur F., Trenton, N. J. Mount for trailer hitches. 2,646,289, July 21.

Smith, Arthur L., La Jolla, and E. E. Krueger, said Krueger assignor to Lee-Tex Rubber Products Corporation of California, Inc., Los Angeles, Calif. Apparatus for automatically transferring indicia from one surface to another. 2,645,870, July 21.

Smith, Charles C., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Machine for crimping the bottom coils of coil springs. 2,646,086, July 21.

Smith, Eric D., Chicago, Ill. Alarm and annunciator device. 2,646,557, July 21.

Smith, Orson P., assignor, by mesne assignments, to Smithway Machine Co., Inc., Seattle, Wash. Feed roll mechanism for saws. 2,646,088, July 21.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Control mechanism. 2,646,067, July 21.

Smithway Machine Co., Inc., assignee: *See*— Smith, Orson P.

Snyder, Harold V., Iowa Falls, Iowa. Skid for portable buildings. 2,646,285, July 21.

Snyder, Philip, Baltimore, Md. Extension table slide mechanism. 2,646,323, July 21.

Societe Alsacienne de Constructions Mecaniques, assignee: *See*— Ville, Jean A., Pages, and Herreng.

Societe des Accumulateurs Fixes & de Traction, assignee: *See*— Herold, Victor. Jacquier, Pierre A. C. Jeannin, Robert A. A.

Societe Novacel, assignee: *See*— Drisch, Nicolas, and Fays.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*— Francis, Alfred W.

Soderman, George W.: *See*— Geary, Edward S., and Soderman.

Sohn, Walter H., Rochester, N. Y. Valve for container washers. 2,646,244, July 21.

Sokolov, David A., Lynn, assignor to Hytron Radio & Electronics Co., Salem, Mass., a division of Columbia Broadcasting System, Inc. Electron tube. 2,646,524, July 21.

Sonderstrup, Christian A., Maywood, Ill., assignor to Raila Products Company. Fulcrum grab. 2,646,305, July 21.

Sörensen, Emil, and H. Scharf, assignors to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany. Molding method. 2,645,836, July 21.

Southern Cotton Oil Company, The, assignee: *See*— Royce, Harvey D.

Southwick, William S., East Lynn, assignor to Thomson Electric Welder Company, Lynn, Mass. Apparatus for delivering welded wire fabric. 2,646,277, July 21.

Spedding, Raymond T., Detroit, assignor to Dearborn Motors Corporation, Birmingham, Mich. Extension link for mowers. 2,645,890, July 21.

Speed Queen Corporation, assignee: *See*— Thiele, Berthold R.

Sperry Corporation, The, assignee: *See*— Newell, William H., McKenney, and Scheuer.

Sperry Products, Inc., assignee: *See*— Straehl, Robert N.

Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Eye protective device. 2,645,775, July 21.

Sponsler, John W., Cambridge, Mass. Center drilling fixture. 2,645,951, July 21.

Staaf, Richard V., Oakdale, Pa. Support for luminous tubing. 2,645,831, July 21.

Stabile, Philip, Brooklyn, N. Y. Musical instrument. 2,645,970, July 21.

Stabler, Howard P., Williamstown, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. V-beam height indicator. 2,646,563, July 21.

Stalego, Charles J., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Method and apparatus for producing fibers from glass and other heat-softenable materials. 2,645,814, July 21.

Stamicarbon N. V., assignee: *See*— Fox, Willem C., and Leeman.

Stamos, Harry N., assignee: *See*— Davis, Delbert A.

Standard Oil Company, assignee: *See*— Arnold, Robert C., and Lien. MacLaren, Frederick H. Pramuk, Edward M. B., and MacLaren. Weisemann, Gert H.

Standard Oil Development Company, assignee: *See*— Jacks, Robert L., and Carter. Nelson, Norman A. Neudeck, Joseph E. O'Halloran, Rosemary. Tyson, Charles W.

Stanin, Theodore E.: *See*— Dickey, Joseph B., and Stanin.

Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Knockdown table top and back splash construction. 2,646,326, July 21.

Stanton, Austin N., Garland, Tex. Bandage. 2,646,040, July 21.

Stator Company, assignee: *See*— Whitney, William E.

Steinemann, Willy: *See*— Kappeler, Markus, Steinemann, and Wehrli.

Sternberg, Israel K., deceased, Lyon, Mass.; R. Sternberg and H. Rubin, executors. Identification tag for cleaning or storage establishments. 2,645,867, July 21.

Sternberg, Rose, executrix: *See*— Sternberg, Israel K.

Stewart, John A.: *See*— Capell, Robert G., Ridenour, and Stewart.

Stockton, Ray F., Wire Products Co. Inc., assignee: *See*— Stockton, Raymond F.

Stockton, Raymond F., Sunland, assignor to Ray F. Stockton Wire Products Co. Inc., Burbank, Calif. Self-furring corner lath. 2,645,930, July 21.

Stoffel, Michael F., assignee: *See*— Holmberg, John E., and Gruener.

Stoll, Samuel J.: *See*— Sejarto, Lester, and Stoll.

Stone & Webster Engineering Corporation, assignee: *See*— Schutt, Hermann C.

Stovall, John R., Jr., Doylestown, Pa. Automatic toll collector device. 2,646,215, July 21.

Straehl, Robert N., assignor to Sperry Products, Inc., Danbury, Conn. Means for increasing the brightness of a cathode tube display. 2,646,555, July 21.

Strain, Daniel E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Cured chlorosulfonated interpolymers of the diolefins. 2,646,422, July 21.

Stratton, Robert L., Folcroft, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Universal interlock. 2,646,474, July 21.

Strickler, Joseph L., Cherryvale, Kans. Casing sealing shoe or boot. 2,646,124, July 21.

Strong Cobb & Company, Inc., assignee: *See*— Albrecht, Robert.

Stubnitz-Greene Spring Corporation, assignee: *See*— Smith, Charles C.

Suen, Tzeng J.: *See*— Woodling, William M., and Suen.

Suen, Tzeng J., Stamford, Conn., and A. M. Schiller, Astoria, assignors to American Cyanamid Company, New York, N. Y. Aminoalkane sulfuric acid modified ureaformaldehyde resins and preparing same. 2,646,419, July 21.

Sun Oil Company, assignee: *See*— Rommel, Richard H.

Sunvic Controls Limited, assignee: *See*— Ashe, Thomas S.

Superduction, Inc., assignee: *See*— Hodgins, Donald R.

Svartviks Aktiebolag, assignee: *See*— Sörenholm, Einar.

Svenska Aeroplan Aktiebolaget, assignee: *See*— Lidmalm, Tord N. G., and Bengtsson.

Swainbank, James A., Flushing, N. Y. Combination workbench and drawing table. 2,646,330, July 21.

Swallow, Herbert A., Plainfield, N. J., assignor to Union Carbide and Carbon Corporation. Process and apparatus for continuous milling of plastic material. 2,645,813, July 21.

Sweet, Carl C.: *See*— Cottrell, Donald C., and Sweet.

Swenson, Harvey F., Seattle, Wash. Ski tow. 2,646,005, July 21.

Swift & Company, assignee: *See*— Hensgen, Bernard T., and Brendle.

Swift, Harley M., Oregon City, Oreg. Vehicle mounted hydraulic scale for load carrying vehicles. 2,646,272, July 21.

Sylvania Electric Products Inc., assignee: *See*— Marchisio, Robert G.

Szikiai, George C., and F. J. Darke, Jr., Princeton, N. J., assignors to Radio Corporation of America. Color television image reproducing system. 2,646,462, July 21.

Takach, Sigmund, Youngstown, Ohio. Combination speaker and beater for outdoor theaters. 2,646,490, July 21.

Talk-O-Products, Inc., assignee: *See*— Vincent, Andrew W.

Tanczyn, Harry, Baltimore, Md., assignor to Armco Steel Corporation. Alloy steel products. 2,646,352, July 21.

Tavener, Ernest E., assignor to Keith Blackman Limited, London, England. Combustion cell gas burner. 2,646,113, July 21.

Taylor, Charles W., assignor to Wingfoot Corporation, Akron, Ohio. Polyamide interpolymer plasticized with diacetin. 2,646,413, July 21.

Taylor, Robert B., Schenectady, N. Y., assignor to General Electric Company. Motor control system. 2,646,540, July 21.

Taylor, S. G., Chain Company, assignee: *See*— Foss, Ferdinand H. H.

Technicon Cardiograph Corporation, assignee: *See*— Gorham, George.

Te Desco, Lawrence, Frank, Pa. Skull crusher. 2,646,223, July 21.

Terry, Paul A., Lynwood, Calif., assignor of one-half to H. A. Huebner and A. M. Herzig. Hinge construction for elevating chair seats. 2,646,106, July 21.

Texas Company, The, assignee: *See*— Hutcheson, John W., and Knowles. Kendall, Marcus T.

Thacker, Ned A.: *See*— Davis, Chester, and Thacker.

Thayer Company, assignee: *See*— Troendle, William C.

Thayer, Josephus J., Middlebury, Conn. Weighing machine. 2,646,270, July 21.

Thew Shovel Company, The, assignee: *See*— Maas, Theodore J.

Thiele, Berthold R., Ripon, Wis., assignor to Speed Queen Corporation. Carpet sweeper. 2,645,798, July 21.





Thomas, Chester A., Lake Forest, Ill., assignor to Babson Bros. Co. Milking machine pulsator. 2,646,058, July 21.

Thomas, Wilbur E., Cranford, N. J. Mechanical collator. 2,646,279, July 21.

Thompson, Frederick H., assignor to The Yerges Manufacturing Company, Fremont, Ohio. Buff section manufacture. 2,645,888, July 21.

Thompson, Keith R., Monroe, Mich., assignor to Monroe Auto Equipment Company. Assembly device for shock absorbers. 2,645,846, July 21.

Thompson, Russell G., assignor to Eastman Kodak Company, Rochester, N. Y. Facsimile recording apparatus. 2,646,518, July 21.

Thomson Electric Welder Company, assignee: *See*— Southwick, William S.

Thurber, William S., assignor to The Dow Chemical Company, Midland, Mich. Making unsaturated dimers of alpha-alkyl styrenes. 2,646,450, July 21.

Tilden, Sydney G., Jr., Stewart Manor, N. Y., assignor to The Permafuse Corp. Making and bonding brake friction material to a brake shoe. 2,646,377, July 21.

Titsworth, Edwin J., Goodrich, Mich. Ventilated wall. 2,645,824, July 21.

Titus, Robert L.: *See*— MacMullen, Clinton W., Shaver, and Titus.

Toledo Scale Company, assignee: *See*— Weckerly, Mark A. Williams, Lawrence S.

Tourek, J. J., Mfg. Co., assignee: *See*— Ross, Joseph F.

Town, Edward W., Wildwood, N. J. Cushioning insole for shoes. 2,645,863, July 21.

Transmission & Gear Company, The, assignee: *See*— Gerst, Chris.

Trautman, Oscar C., Parma, assignor to The Trauwood Engineering Company, Cleveland, Ohio. Core for immersion heaters. 2,646,490, July 21.

Trauwood Engineering Company, The, assignee: *See*— Trautman, Oscar C.

Troendle, William C., assignor to Thayer Company, Gardner, Mass. Baby carriage convertible to a bassinet. 2,646,286, July 21.

Trussell, Clarence D., Turnwood, N. Y. Manufacture of mechanical bindings. 2,645,816, July 21.

Tucci, Anthony G., Cleveland, Ohio. Water faucet. 2,646,246, July 21.

Turck, Joseph A. V., Miami Beach, Fla., assignor to Felt and Tarrant Manufacturing Company. Key-driven calculating machine. 2,646,219, July 21.

Turney, Horace J., Phoenix, Ariz. Door closer. 2,645,806, July 21.

Tuson, Edwin T., Wahroonga, New South Wales, Australia. Collapsible trailer caravan. 2,646,309, July 21.

Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Valve. 2,646,065, July 21.

Udale, Stanley M., assignor to Holley Carburetor Company, Detroit, Mich. Contact for ignition systems. 2,646,486, July 21.

Udelman, Jaime, Cartago, Costa Rica. Helicopter. 2,646,130, July 21.

Uhlig, Eric J., Haddon Heights, and J. R. Lewis, Collingswood, assignors to Wickes Engineering and Construction Company, Camden, N. J. 24-hour direct-reading clock. 2,645,896, July 21.

Union Carbide and Carbon Corporation, assignee: *See*— Duane, John J. Swallow, Herbert A.

United Paper Company, assignee: *See*— Meyer, Ely.

United Shoe Machinery Corporation, assignee: *See*— Dumas, Albert S. Haas, Otto R. Paulsen, Hans C.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*— Coplan, Burton V., and Zebroski. Hylbak, Harley E. Kohl, Jerome, Reid, and Zumwalt. Reid, Elliott G. Sands, Matthew L.

United States Playing Card Company, The, assignee: *See*— Rostwick, Wallace L.

United States Steel Corporation, assignee: *See*— Aller, T. Dwight, and Noll. Beebe, Gerald T., and Priest. Kochaver, Theodore J. Lorig, Edwin T. Orr, Howard S. Partridge, Lawrence R.

Universal Oil Products Company, assignee: *See*— Gerhold, Clarence G. Schmerling, Louis.

Upjohn Company, The, assignee: *See*— Wachtel, Louis W., and Meyer.

Uxbridge Worsted Company, Inc., assignee: *See*— Cabana, Wilfred J.

Vakovik, Adrian J., Elkhart, Ind., assignor to Chicago Telephone Supply Corporation. Sequential double contact switch. 2,646,484, July 21.

Vandenburgh, Charles D., Charlestown, Md., assignor to American Viscose Corporation, Wilmington, Del. Loosening rayon yarn packages by simultaneous soaking and deformation. 2,646,342, July 21.

Vapor Heating Corporation, assignee: *See*— Russell, Edward A., and Kirkby.

Varela, Arthur A., Alexandria, Va. Controlled impedance gas discharge device for mechanical transmission mediums. 2,646,550, July 21.

Varian, Russell H., Cupertino, W. W. Hansen, Stanford University, and J. R. Woodyard, Berkeley, assignors to The Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif. Oscillation generator. 2,646,512, July 21.

Veillet, Richard J., assignee: *See*— Richard, Alphonse.

Vengris, Michael P., Dearborn, assignor to The Drum Corporation, Detroit, Mich. Roller type paint applicator. 2,645,845, July 21.

Venn, Frank A., Salem, Va. Drapery hook holding device. 2,645,920, July 21.

Victor, John H., Wilmette, assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Oil seal construction. 2,646,295, July 21.

Victor Manufacturing & Gasket Co., assignee: *See*— Victor, John H.

Ville, Jean A., and A. P. Pages, Paris, and P. A. Herreng, Montrouge, France, assignors to Societe Alsacienne de Constructions Mecaniques. Electron tube coder device. 2,646,548, July 21.

Vincent, Andrew W., assignor to Talk-O Products, Inc., Rochester, N. Y. Manually operated selecting and controlling switch apparatus. 2,646,473, July 21.

Viola, Baldassare, Detroit, Mich. Extension keeper plate. 2,646,302, July 21.

Virgil, Richard K., Granger, Ind. Automatic fowl feeding device. 2,646,023, July 21.

Vlajinac, Gojko M., Lima, Peru. Averaging device. 2,646,216, July 21.

Vodoz, Fred W., Wilmette, Ill. Barn cleaner. 2,646,158, July 21.

Von Gugelberg, Hans L., Murray Hill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multicathode gaseous discharge device. 2,646,523, July 21.

Von Zelewsky, Ottomar, Neuhausen am Rheinfall, assignor to Aktiengesellschaft der Elsen-und Stahlwerke, vormals Georg Fischer, Schaffhausen, Switzerland. Profiling attachment. 2,645,967, July 21.

Voss, John H., Chicago, Ill. Portable collapsible smoke apparatus. 2,645,993, July 21.

Wachtel, Louis W., and C. E. Meyer, assignors to The Upjohn Company, Kalamazoo, Mich. Therapeutic fat product. 2,646,354, July 21.

Wade Electric Products Co., assignee: *See*— Herterick, Vincent R.

Wagner, Carolyn L., executrix: *See*— Wagner, Victor R.

Wagner, Don A., Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y. Light distillate compositions. 2,646,349, July 21.

Wagner, Victor R., deceased, Lakewood, N. Y., assignor to C. L. Wagner and V. R. Wagner, Jr., executors. Utility stove. 2,646,031, July 21.

Wagner, Victor R., Jr., executor: *See*— Wagner, Victor R.

Wagner, William, New York, N. Y. Magnetic check valve. 2,646,071, July 21.

Wahlberg, Nils E., Chicago, Ill., and G. V. Hedstrom, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Spring means. 2,646,275, July 21.

Wainer, Eugene, Cleveland, Ohio, assignor, by mesne assignments, to Radio Corporation of America. Modified barium titanate ceramic materials. 2,646,359, July 21.

Walker, Merle H., Ilion, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Stud driving tool. 2,645,772, July 21.

Wallace, H. W., & Company, Limited, assignee: *See*— More, Arthur R.

Walz, Heinz P. H., Heidelberg, Germany. Galvanic cell. 2,646,458, July 21.

War, United States of America as represented by the Secretary of, assignee: *See*— Alford, Andrew. Bell, Persa R., Jr. Chu, Lan J. Emslie, Alfred G. Hulstede, George E. Martinelli, Ernest A. McGuigan, William D. Nordsieck, Arnold T. Ragan, George L., and Reed. Roberts, Shepard.

Ward, George C., and W. T. Haggerty, Jr., Cumberland, Md., assignors to Celanese Corporation of America, New York, N. Y. Dyeing of cellulose derivative textile materials. 2,646,339, July 21.

Ward, Irving A., assignee: *See*— Lynch, Leslie.

Ware, Gordon K., and G. J. Filetz, assignors to Chicago Roller Skate Company, Chicago, Ill. Sprinkler. 2,646,312, July 21.

Warner, Thomas R., Gonzales, Calif. Coacting endless chain type onion harvester. 2,645,889, July 21.

Waters, James B., Niagara Falls, N. Y. Self-propelled boat for swimmers. 2,645,792, July 21.

Watkins, William C., Los Angeles, Calif. Window structure and glazing seal therefor. 2,646,142, July 21.

Watson, Frederick W. H., assignor to The Mirrlees Watson Company Limited, Glasgow, Scotland. Apparatus for producing smoke. 2,646,032, July 21.
Watter, Michael: *See*—
Eksergian, Rupen, and Watter.
Wean Engineering Company, Inc., The, assignee: *See*—
Wean, Raymond J.
Wean, Raymond J., assignor to The Wean Engineering Company, Inc., Warren, Ohio. Electroplating zinc using titanium containing electrolyte. 2,646,397, July 21.
Webster, Walter L., Los Angeles, Calif. Smoking appliance. 2,646,050, July 21.
Wechsler, Hermann, Ventura, Calif., assignor, by mesne assignments, to Dearborn Motors Corporation, Birmingham, Mich. Seed ejector for planters. 2,646,191, July 21.
Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Spring weighing scales. 2,646,274, July 21.
Weems, Albert W., Meridian, Miss. Cotton-picking spindle and stripper therefor. 2,645,892, July 21.
Wehr, Henry W., and F. B. Nagle, assignors to The Dow Chemical Company, Midland, Mich. Polymers of alkenyl aromatic compounds and acrylonitrile and making the same. 2,646,423, July 21.
Wehr, Henry W., and F. B. Nagle, assignors to The Dow Chemical Company, Midland, Mich. Acrylonitrile compositions and making the same. 2,646,424, July 21.
Wehrli, Walter: *See*—
Kappeler, Markus, Steinemann, and Wehrli.
Weinberg, Maurice J., New York, N. Y. Device for making butter pats. 2,645,852, July 21.
Weingarden, Herbert B., Detroit, Mich. Record adapter and automatic speed changer. 2,646,284, July 21.
Weissmann, Gert H., Hobart, Ind., assignor to Standard Oil Company, Chicago, Ill. Sweetening hydrocarbon distillates. 2,646,389, July 21.
Weiser, Jack, Los Angeles, Calif. Arithmetical device for writing instruments. 2,646,220, July 21.
Weiss, John M., assignor to John M. Weiss and Co., New York, N. Y. Separation and recovery of components of a solution. 2,646,171, July 21.
Weiss, John M., and Co., assignee: *See*—
Weiss, John M.
Welch Allyn, Inc., assignee: *See*—
Allyn, William G., and Cook.
Cook, Charles S., and Becker.
Wellman, S. K., Company, The, assignee: *See*—
Wellman, Samuel K., and Lowey.
Wellman, Samuel K., Cleveland Heights, and F. J. Lowey, Olmstead Falls, assignors to The S. K. Wellman Company, Cleveland, Ohio. Clutch plate. 2,646,151, July 21.
Wennerstrom, Carl G.: *See*—
Crichton, Andrew B., Jr., and Wennerstrom.
Werenfels, Peter H., Lawrenceville, and J. E. Eckert, Princeton, N. J., assignors to Radio Corporation of America. Apparatus for reproducing images in color. 2,646,528, July 21.
Werenfels, Peter H., Lawrenceville, and J. E. Eckert, Princeton, N. J., assignors to Radio Corporation of America. Apparatus for reproducing images in color. 2,646,529, July 21.
West Bend Aluminum Co., assignee: *See*—
Kircher, Ralph N., Heldner, and Burkett.
Western Electric Company, Incorporated, assignee: *See*—
Fuchs, William F., and Lekan.
Geary, Edward S., and Soderman.
Kraay, Robert A.
MacPhaul, Alexander M.
Western Union Telegraph Company, The, assignee: Wise, Raleigh J., and Parrott.
Westinghouse Electric Corporation, assignee: *See*—
Baker, Benjamin P., and Wilcox.
Holzer, Albert W.
Isabella, Anthony.
Wetsel, Cecil L., Sacramento, Calif. Load weight indicator for cranes. 2,646,273, July 21.
White, Frank L.: *See*—
Brooker, Leslie G. S., and White.
Whitehead, Earl B., assignor to Atlantic Carton Corporation, Norwich, Conn. Packaging means. 2,646,165, July 21.
Whitin, Paul, Manufacturing Co., assignee: *See*—
Gamble, James G.
Whitner, Thomas C., Elizabeth, N. J. Impregnating cellulose fibers and composition therefor. 2,646,372, July 21.
Whitney, William E., Belmont, Mass., assignor, by mesne assignments, to Stator Company. Multilayer diaphragm. 2,646,077, July 21.
Wickena, Edward F., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Air line oiler. 2,646,134, July 21.
Wickes Engineering and Construction Company, assignee: *See*—
Uhlig, Eric J., and Lewis.
Wickesberg, Alfred W., Milwaukee, Wis. Melting and dispensing apparatus. 2,646,189, July 21.
Wideman, Ewell F., Wetumpka, Ala. Journal box. 2,646,319, July 21.
Wiese, Arthur R., Jr.: *See*—
Gilroy, John, and Wiese.
Wilcox, Howard M.: *See*—
Baker, Benjamin P., and Wilcox.
Wilde, Raymond A., Everett, Wash. Lumber shake. 2,645,825, July 21.
Wilford, Lawrence M., assignor of one-half to A. E. Hulet, St. Paul, Minn. Safety signal reflector for vehicles. 2,645,977, July 21.
Wilhide, Glenn C., Towson, Md., assignor to The Black and Decker Manufacturing Company. Valve shop cabinet. 2,646,329, July 21.
Will, Victor R., Sacramento, Calif. Ceiling bed. 2,645,787, July 21.
Williams, Arthur L.: *See*—
Coates, Clyde E., and Williams.
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Hydraulic scale platform supporting means. 2,646,236, July 21.
Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Ball and socket strut. 2,646,271, July 21.
Williams, Russell J.: *See*—
Brady, Charles V., and Williams.
Williams, Samuel, & Sons Limited, assignee: *See*—
Durston, David S.
Willis, Charles L.: *See*—
Bennett, Edgar G., and Willis.
Wilson & Co., Inc., assignee: *See*—
Edgar, Albert C.
Wilson, Loyal V., Albany, Oreg. Vehicle collision indicator. 2,646,016, July 21.
Wilson Supply Company, assignee: *See*—
Nixon, Jeddy D.
Wilson, Volney C., Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Cathode-ray tube sweep circuit. 2,646,565, July 21.
Wingfoot Corporation, assignee: *See*—
Brown, Gardner L., and Johnson.
Taylor, Charles W.
Winter, David F., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Balanced sweep circuit. 2,646,503, July 21.
Wise, Raleigh J., Arlington, and R. D. Parrott, West New York, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Facsimile apparatus. 2,646,335, July 21.
Wisner, Joseph K., Jr., San Francisco, Calif. Back seat playpen. 2,645,789, July 21.
Wistedt, Axel G., Borlange, Sweden. Pin fastener with hinged end. 2,645,833, July 21.
Wittner, Edward E., San Francisco, and R. M. Sherman, Palo Alto, assignors to W. R. Ames Company, San Francisco, Calif. Automatic drain valve for portable irrigation pipes. 2,646,059, July 21.
Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Coupler. 2,646,176, July 21.
Wolnak, Bernard: *See*—
Miner, Carl S., Jr., and Wolnak.
Wood Conversion Company, assignee: *See*—
Duvall, Thure C.
Wood, Joseph D., Upper Darby, and A. S. Caswell, assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa. High-voltage circuit breaker. 2,646,481, July 21.
Wood, Joseph D., Upper Darby, and A. S. Caswell, assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa. High-voltage circuit breaker. 2,646,482, July 21.
Wood, William W., Jr., Fenton, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force. Scoring system. 2,646,119, July 21.
Woodling, William M., Springdale, and T. J. Suen, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Water-repellent nonfibrous cellulosic material and preparing same. 2,646,368, July 21.
Woodyard, John R.: *See*—
Varian, Russell H., Hansen, and Woodyard.
Woog, Ernest, assignee: *See*—
Beauvais, Max, and Hey.
Worthington Corporation, assignee: *See*—
Sebald, Joseph F.
Wrap-King Corporation, assignee: *See*—
Ouellette, Clarence.
Yerges Manufacturing Company, The, assignee: *See*—
Thompson, Frederick H.
York, La Faun E., Wichita, Kans. Device for holding embroidery floss and textile weaving and sewing material. 2,646,196, July 21.
Young, Harry M., Jr., Webster Groves, Mo. Hod stand. 2,646,239, July 21.
Zähner, Hans, Landquart, Switzerland. Work holder. 2,645,962, July 21.
Zebroski, Edwin L.: *See*—
Coplan, Burton Y., and Zebroski.
Zellbeck, Gustav: *See*—
Kohlmann, Hans, and Zellbeck.
Zentmyer, David T.: *See*—
Breuer, Frederick W., and Zentmyer.
Zig Zag Spring Company, assignee: *See*—
Norman, Harry H.
Zumwalt, Lloyd R.: *See*—
Kohl, Jerome, Reid, and Zumwalt.
Zweifel, Hans-Heini, and F. Ackermann, Bluningen, assignors to Ciba Limited, Basel, Switzerland. Brightening foodstuffs containing carbohydrates. 2,646,355, July 21.

# LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ballast tamping apparatus. S. R. Hursh and C. J. Reigh. Re. 23,687, July 21.
Electrical connector. W. S. Watts. Re. 23,688, July 21.

# LIST OF DESIGN INVENTIONS

Base for table lamps. E. I. Cole. 170,046–9, July 21.
Box, Hat. M. A. and I. L. Bard. 170,042, July 21.
Cabinet, Combination popcorn warming and display. A. D. Altemiller. 170,040, July 21.
Cap. G. B. Weber. 170,072, July 21.
Clock, Desk. C. W. Sheldon. 170,069, July 21.
Doughnut. H. E. Mellstrup. 170,062, July 21.
Fabric, Shaped textile. M. M. Schimmel. 170,068, July 21.
Fabric, Textile. L. Bluhm. 170,043–4, July 21.
Hairpin. F. G. Hall. 170,053, July 21.
Hat. P. M. Maxwell and K. M. Wiach. 170,061, July 21.
Housing for scientific instruments. T. H. Petterson. 170,065, July 21.
Lamp base, Electric. D. Borowitz. 170,045, July 21.
Lightning demonstrator. S. D. Kretzer. 170,058, July 21.
Napkin or similar article. R. J. Vernon. 170,071, July 21.
Overshoe, Woman's. B. A. Hausfeld and E. M. and J. J. Marx. 170,054, July 21.
Pipe stem. A. A. Sasieni. 170,067, July 21.
Rocking horse. I. Goss. 170,052, July 21.
Scarf. V. Neumann. 170,063, July 21.
Seat, Vehicle. J. H. Lang. 170,059–60, July 21.
Sewing-machine frame. M. S. Park. 170,064, July 21.
Shuffleboard attachment. A. Raymond. 170,066, July 21.
Spoon or other article of flatware. L. V. M. Helander. 170,056, July 21.
Spoon or similar article. P. B. Ball. 170,041, July 21.
Teething ring or similar article. J. Colm. 170,050–1, July 21.
Television broadcast transmitter. M. Silver, E. M. Bradburd, and R. B. Lewthwaite. 170,070, July 21.
Tire. E. W. Hawkinson. 170,055, July 21.
Wheel cover. H. M. Jenkins, Jr. 170,057, July 21.

# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 21st DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acrylonitrile by catalytic dehydration of ethylene cyanohydrin, Production of. E. L. Carpenter. 2,646,444, July 21.
Acrylonitrile compositions and making the same. H. W. Webr and F. B. Nagle. 2,646,424, July 21.
Adhesive sheets. J. A. McGarry. 2,646,371, July 21.
Adjustable inductance. F. W. Schmidt, Jr. 2,646,553, July 21.
Adjustable saw carrier holder. J. Schultz. 2,645,959, July 21.
Adjustment mechanism for microscopes. T. G. Aitcheson. 2,645,972, July 21.
Aftercooler construction. E. Ackerman, A. De Feo, and W. H. Francisco, Jr. 2,646,027, July 21.
Aileron gauge. D. A. Davis. 2,645,858, July 21.
Aircraft with hydroskis, Buoyant. J. R. Dawson, Sr. 2,646,235, July 21.
Air current deflector. E. C. Krume. 2,646,257, July 21.
Air line oiler. E. F. Wickens. 2,646,134, July 21.
Alarm and annunciator device. E. D. Smith. 2,646,557, July 21.
Alarm, Safety speed. M. M. Mitchell. 2,646,017, July 21.
Alarm system, Supervised. P. B. Allen. 2,646,556, July 21.
Alkylation by modified aluminum halide catalyst. L. Schmerling. 2,646,452, July 21.
Alloy steel products. H. Tanczyn. 2,646,352, July 21.
Aminoalkane sulfuric acid modified urea-formaldehyde resins and preparing same. T. J. Suen and A. M. Schiller. 2,646,419, July 21.
Ammonia saturator and tar removal apparatus. C. Otto. 2,646,345, July 21.
Amplifier control system. R. J. Rockwell. 2,646,472, July 21.
Amplifier, Direct current. L. Lynch. 2,646,515, July 21.
Amplifier for wide amplitude range, Balanced multichannel. J. H. Long. 2,646,469, July 21.
Amplifier, Wide band. F. H. McIntosh. 2,646,467, July 21.
Amplitude linearity measurement. B. C. King, Jr. 2,646,545, July 21.
Antenna. E. A. Martinelli. 2,646,507, July 21.
Antenna, Broad band bidirectional. A. Alford. 2,646,505, July 21.
Antenna, Nutating. B. J. Fisher, Jr. 2,646,508, July 21.
Antenna with two-way acting fluid driving means, Extensible. F. V. Gosline. 2,646,504, July 21.
Anthelmintic compositions. A. H. Craige, Jr. 2,646,382–3, July 21.
Antiskid tire chain. L. N. Johnson. 2,646,099, July 21.
Apparatus and method for filling containers with predetermined quantities of gas. P. F. Droste and H. J. Hill. 2,645,907, July 21.
Apparatus for attaching and spacing fastener elements on supports. O. J. Huelster and A. F. D'Amico. 2,646,185, July 21.
Apparatus for automatically regulating the flow of fluids. Y. Ponsar. 2,646,060, July 21.
Apparatus for automatically transferring indicia from one surface to another. A. L. Smith and E. E. Krueger. 2,645,870, July 21.
Apparatus for delivering welded wire fabric. W. S. Southwick. 2,646,277, July 21.
Apparatus for dispensing measured volumes of liquid. J. G. Gullas. 2,646,068, July 21.
Apparatus for dressing gear teeth grinding wheels. C. S. Davis, Jr. and J. E. Rice, Jr. 2,646,030, July 21.
Apparatus for fractionating multicomponent streams. C. G. Gerhold. 2,646,392, July 21.
Apparatus for introducing fluid into subsurface formations. N. A. Nelson. 2,646,123, July 21.
Apparatus for measuring the hardness of materials. A. R. More. 2,645,934, July 21.
Apparatus for multistage cementing of deep wells. J. E. Hall. 2,646,125, July 21.
Apparatus for operating railway dump cars. T. J. Kochaver. 2,645,964, July 21.
Apparatus for producing compressed air for obtaining vibratory air movements therefrom. W. Bernardoni. 2,645,904, July 21.
Apparatus for producing smoke. F. W. H. Watson. 2,646,032, July 21.
Apparatus for removing insulation from the terminal leads of electrical members. J. B. Leere. 2,645,796, July 21.
Apparatus for reproducing images in color. A. C. Schroeder. 2,646,463, July 21.
Apparatus for reproducing images in color. P. H. Werenfels and J. E. Eckert. 2,646,528–9, July 21.



Apparatus for treating paper stock. E. Cowles. 2,645,982, July 21.
Apparatus for treating thread. H. A. Kuljian. 2,645,918, July 21.
Apparatus for viewing or projecting colored slides or transparencies. E. B. Cook. 2,645,869, July 21.
Apparatus having compound motion carpet engaging means for beating carpets or rugs. J. D. Conway. 2,645,799, July 21.
Apparatus to separate cottonseed from a neutralizing agent. R. L. Jackson. 2,646,170, July 21.
Apparel holder for coat hangers. D. C. Kielat. 2,646,195, July 21.
Appliance for positioning automobile body parts for repair operations thereon. W. H. Ferguson. 2,646,101, July 21.
Approach detection by high-frequency radiation. P. G. A. Nutzler. 2,646,559, July 21.
Arc welding machine. C. R. Moon. 2,646,493, July 21.
Arithmetical device for writing instruments. J. Weiser. 2,646,220, July 21.
Artificial limb knee structure. L. H. Barghausen. 2,645,779, July 21.
Assembly device for shock absorbers. K. R. Thompson. 2,645,846, July 21.
Atmospheric dust collector. E. G. Reid. 2,645,941, July 21.
Attenuator, Wave guide variable. S. Roberts. 2,646,551, July 21.
Automatic temperature regulator. M. L. Sands. 2,646,544, July 21.
Automatic well flow valve. J. D. Nixon. 2,646,062, July 21.
Automobile cover. D. R. Gaverth and A. Erickson. 2,646,997, July 21.
Automobile heater. P. M. Freer. 2,646,258, July 21.
Automotive tire wheel. A. Richard. 2,646,315, July 21.
Averaging device. G. M. Viajinac. 2,646,216, July 21.
Azamerocarbocyanine dyes. L. G. S. Brooker and F. L. White. 2,646,409, July 21.
Baby carriage convertible to a bassinet. W. C. Troendle. 2,646,286, July 21.
Baby's bath seat. H. Moyer. 2,645,781, July 21.
Back flow preventer. S. A. Hayes. 2,646,063, July 21.
Backing paper for roll photographic film. E. L. Baxter. 2,646,365–6, July 21.
Bag. C. V. Brady and R. J. Williams. 2,646,203, July 21.
Bake oven for incandescent lamps. A. W. Holzer. 2,645,862, July 21.
Balanced sweep circuit. D. F. Winter. 2,646,503, July 21.
Bale loading attachment for vehicles. C. W. Maxwell. 2,646,181, July 21.
Bale twine tie. J. C. Leary. 2,645,840, July 21.
Ball and socket strut. L. S. Williams. 2,646,271, July 21.
Ball hammer for rotary driers. C. A. Arend, Jr., and W. A. Seedorff, Jr. 2,645,861, July 21.
Bandage. A. N. Stanton. 2,646,040, July 21.
Barn cleaner. F. W. Vodoz. 2,646,158, July 21.
Basket structure with stacking handles. G. L. Russell. 2,646,186, July 21.
Bathing device, Infant's. B. H. Kennedy. 2,645,782, July 21.
Battery electrodes and the resulting electrodes, Manufacture of. V. Herold. 2,646,454, July 21.
Battery venting system, Electric storage. W. L. Gill. 2,646,459, July 21.
Beam loader apparatus. E. M. B. Pramuk and P. H. MacLaren. 2,645,935, July 21.
Beaming machine. F. Lambach. 2,645,838, July 21.
Bearing assembly. C. A. Geist. 2,646,321, July 21.
Bearing for metal rolling apparatus, Outboard. J. H. Friedman. 2,645,955, July 21.
Bed, Ceiling. V. R. Will. 2,645,787, July 21.
Bed with shiftable back, Sofa. F. S. Knoll and C. W. Niedringhaus. 2,645,788, July 21.
Beet picker attachment. J. Bratun. 2,646,167, July 21.
Belt, Floating. O. Klabunde. 2,645,791, July 21.
Bin, Tiltable. L. A. Philipp. 2,646,332, July 21.
Binding books. L. E. Pitner. 2,645,795, July 21.
Blending hopper. K. G. Lytton. 2,645,820, July 21.
Blind stitcher. H. N. Johnson. 2,646,015, July 21.
Board: *See*—
  Cribbage board.
Boat for swimmers, Self-propelled. J. B. Waters. 2,645,792, July 21.
Bolt holding tool. E. P. Pray. 2,645,860, July 21.
Boron phosphate. Manufacture of. J. Kamlet. 2,646,344, July 21.



Bottle, Collapsible. S. L. Diack. 2,646,044, July 21.
Boundary layer control for compressor inlet ducts. A. Isabella. 2,646,211, July 21.
Box: *See*—
  Journal box. Railroad journal box.
Boxmaking machine. W. F. Linstedt. 2,645,984, July 21.
Bracket: *See*—
  Takedown type swingable wall bracket.
Brake: *See*—
  Disk brake.
Brake assembly, Crown block. C. M. Roberson. 2,646,251, July 21.
Breaking petroleum water-in-oil emulsions. W. B. Hughes and E. B. Fisher. 2,646,404, July 21.
Brightening foodstuffs containing carbohydrates. H. Zweifel and F. Ackermann. 2,646,355, July 21.
Broach for shaving round parts. L. W. Bedker. 2,645,980, July 21.
Broiling device. E. Dornbush. 2,646,495, July 21.
Broom. H. H. Birch. 2,645,805, July 21.
Brush and container therefor, Extensible. W. P. Abel. 2,645,803, July 21.
Brush and the bristle formed therewith. H. Gantz, H. H. Schwartz, and C. Iasillo, Sr. 2,645,804, July 21.
Brush assembly, Sectional. L. J. Mundo. 2,645,802, July 21.
Brushing apparatus. R. A. Kraay. 2,645,797, July 21.
Buff section manufacture. F. H. Thompson. 2,645,888, July 21.
Buffer, Shock-damping. E. A. Sahli. 2,646,083, July 21.
Building construction. C. J. Roos. 2,645,928, July 21.
Bulge packing of fruit. E. Meyer. 2,646,198, July 21.
Bunghole adapter. R. J. Gray. 2,646,293, July 21.
Burner: *See*—
  Combustion cell gas burner. Pot-type oil burner.
Burner and igniter, Pot-type oil. H. C. Long. 2,646,111, July 21.
Burner for liquid fuel. F. Banscher. 2,646,109, July 21.
Burner having partitioned outlet ports, Gas. A. H. Brodbeck. 2,646,112, July 21.
Button injector and positioning attachment. R. E. Fowler. 2,646,014, July 21.
Cabinet and desk, Combined. P. V. Gallo. 2,646,331, July 21.
Calculating machine, Key-driven. J. A. V. Turck. 2,646,219, July 21.
Car: *See*—
  Charging car.
Carburetor. E. G. Bareham and W. Layland. 2,646,265, July 21.
Carburetor for internal-combustion engines, Self-feeding. J. N. Morris. 2,646,264, July 21.
Carpet sweeper. B. R. Thiele. 2,645,798, July 21.
Carton for yarn packages. F. W. Paffen and E. M. Engel. 2,646,166, July 21.
Case: *See*—
  Sample display case.
Casing machine. A. R. Silva. 2,646,197, July 21.
Cathode-ray centering. H. R. Shaw and M. J. Obert. 2,646,522, July 21.
Cathode-ray tube sweep circuit. V. C. Wilson. 2,646,565, July 21.
Celluiose acetate with sulfoacetic pretreatment, Manufacture of. C. J. Malm and L. W. Blanchard, Jr. 2,646,429, July 21.
Center drilling fixture. J. W. Sponsler. 2,645,951, July 21.
Centrifugal pump. E. J. Frey. 2,646,002, July 21.
Centrifugal separator. B. G. Cox and T. Evans. 2,646,172, July 21.
Chain: *See*—
  Antiskid tire chain.
  Universal link conveyer chain.
Chair: *See*—
  Convertible chair.
Charging car. G. Padgett. 2,646,395, July 21.
Check for picker sticks. C. W. Franklin and J. T. Colvard. 2,646,082, July 21.
Chute mounting for concrete mixers, Discharge. C. Gerst. 2,646,262, July 21.
Cigarette protector. D. W. Orchard. 2,646,049, July 21.
Circuit: *See*—
  Balanced sweep circuit. Noise limiting circuit.
  Cathode-ray tube sweep circuit. Polar relay biasing circuit.
  Electron oscillator circuit. Two-directional dynamic braking circuit.
Circuit breaker actuator arrangement. E. T. Platz. 2,646,488, July 21.
Circuit breaker, High-voltage. J. D. Wood and A. S. Caswell. 2,646,481–2, July 21.
Circumcision clamp. H. O. Maryan. 2,646,046, July 21.
Clamp: *See*—
  Circumcision clamp.
Cleaner: *See*—
  Barn cleaner.
Clock, 24-hour direct-reading. E. J. Uhlig and J. R. Lewis. 2,645,896, July 21.
Clothes drier. W. L. Morrison. 2,645,863, July 21.
Clutch: *See*—
  Torque and speed responsive fluid clutch.
Clutch and brake device, Electromagnetic. D. S. Durston. 2,646,145, July 21.



Clutch and brake, Dynamoelectric machine. I. Kalikow, L. E. Hildebrand, and A. F. Lukens. 2,646,519, July 21.
Clutch and brake mechanism for dynamoelectric machines. A. H. Labastie. 2,646,520, July 21.
Clutch enabling simultaneous and/or selective control of more than one driven shaft. L. Matrot. 2,646,148, July 21.
Clutch for drill heads. A. B. Crichton, Jr., and C. G. Wennerstrom. 2,646,146–7, July 21.
Clutch plate. S. K. Wellman and F. J. Lowey. 2,646,151, July 21.
Coating for food containers. A. C. Edgar. 2,646,358, July 21.
Coaxial line terminating device. G. L. Ragan and J. Reed. 2,646,549, July 21.
Coder device, Electron tube. J. A. Ville, A. P. Pages, and P. A. Herreng. 2,646,548, July 21.
Coin box loader. H. L. Nelisen. 2,646,055, July 21.
Coin controlled device. J. A. Fremon. 2,646,154, July 21.
Collar and necktie, Combination. R. and E. Naftali. 2,645,777, July 21.
Color television picture tube. J. A. Rajchman. 2,646,521, July 21.
Color television, Subtractive. A. N. Goldsmith. 2,645,976, July 21.
Combination controlled night latch. E. M. Miller. 2,645,925, July 21.
Combination lock. H. C. Behrens. 2,645,923, July 21.
Combustion cell gas burner. E. E. Tavener. 2,646,113, July 21.
Combustion chamber having a series of expansion chambers. R. Hurtaj. 2,645,898, July 21.
Community laying nest. J. B. Olson. 2,646,022, July 21.
Compressor plant. J. R. Munck af Rosenschöld. 2,646,204–5, July 21.
Compressor, Turbine driven multistage. J. A. N. Gailliot. 2,646,209, July 21.
Concentration and use of methylcyclopentane in 2,2,4-trimethylpentane isomerization. F. E. Condon. 2,646,453, July 21.
Concrete block handling device. L. H. and W. E. Schlough. 2,646,180, July 21.
Condenser. B. J. Powell. 2,646,259, July 21.
Conical plug refiner. C. E. Roberson. 2,645,983, July 21.
Connector: *See*—
  Electrical connector.
Connection for the bits of smoking pipes. J. Gevirman. 2,646,052, July 21.
Connector switch. P. Bakker. 2,646,466, July 21.
Contact and terminal member for electric switches, Combined. H. M. Cole. 2,646,485, July 21.
Contact for ignition systems. S. M. Udale. 2,646,486, July 21.
Container: *See*—
  Pressure type container.
Container closure. F. G. Pellett. 2,646,183, July 21.
Container with insert. J. W. Meinhardt. 2,646,201, July 21.
Continuous adsorption process. R. H. Rommel. 2,646,451, July 21.
Continuous progressive cylinder washer. D. W. Sessions. 2,645,914, July 21.
Control device. F. O. Johnson. 2,646,487, July 21.
Control device adjustment means. B. J. Homkes. 2,645,945, July 21.
Control mechanism. T. R. Smith. 2,646,067, July 21.
Control of electric arcs used in welding or metal spraying processes. W. E. Ballard. 2,646,492, July 21.
Controlled impedance gas discharge device for mechanical transmission mediums. A. A. Varela. 2,646,550, July 21.
Controlling deviation in drilling. D. S. Johnston. 2,646,254, July 21.
Convertible chair. W. H. Murphy. 2,646,107, July 21.
Converting hydrocarbons, Method of and apparatus for. E. J. Houdry. 2,646,391, July 21.
Conveyer, Self-cleaning. G. M. Jones. 2,646,159, July 21.
Coordination aid for walking. B. Ringman. 2,646,282, July 21.
Cop handling mechanism. J. G. Gamble. 2,646,226, July 21.
Copolymers of polythiols, phenols, and aldehydes. J. C. Patrick and H. R. Ferguson. 2,646,415, July 21.
Cord gripping device. M. E. Lee. 2,645,832, July 21.
Cord reinforced base for floral designs and making same. R. C. Melander. 2,645,872, July 21.
Core for immersion heaters. O. C. Trautman. 2,646,490, July 21.
Correcting device for printing apparatus. M. H. Cardon. 2,646,155, July 21.
Cottonseed meal glues of low alkalinity. J. C. Arthur, Jr., and J. T. Hogan. 2,646,408, July 21.
Coupler. H. H. Wolfe. 2,646,176, July 21.
Coupling: *See*—
  Disconnect coupling. Magnetic coupling.
Coupling. A. B. Crichton, Jr., and C. G. Wennerstrom. 2,646,297, July 21.
Cover: *See*—
  Automobile cover.
Cover construction for worktables. C. S. Dayton. 2,646,328, July 21.
Crib. C. C. Loftin. 2,645,786, July 21.
Cribbage board. V. G. Landers. 2,646,221, July 21.

Cultivator. L. M. Brooks. 2,645,987, July 21.
Cultivator attachment for tractors. G. Prince. 2,645,989, July 21.
Cup, Collapsible drinking. F. R. Curtiss. 2,645,913, July 21.
Cured chlorosulfonated interpolymers of the diolefins. D. E. Strain. 2,646,422, July 21.
Cutting device. K. R. Runde. 2,645,848, July 21.
Decorating an uncured rubber article. A. B. Poschel. 2,646,379, July 21.
Deep drilling attachment. W. S. Bunnell. 2,645,952, July 21.
Defrosting arrangement for refrigerators, Electric. L. W. Atchison. 2,645,905, July 21.
Dehalogenating halogenosilanes. J. J. Duane. 2,646,441, July 21.
Delinting apparatus, Cottonseed. R. L. Jackson. 2,646,268, July 21.
$\Delta^4$-pregnenes, Preparing. S. Bernstein and M. D. Heller. 2,646,434, July 21.
Desk or table top construction. F. A. Saaf. 2,646,327, July 21.
Desk top construction. C. M. Abrahamson. 2,646,325, July 21.
Desulfurization of distillate fuels. R. C. Arnold and A. P. Lien. 2,646,390, July 21.
Device for dustless drilling in the rock of mines. A. Löbbert. 2,646,256, July 21.
Device for ejecting cigar and cigarette butts and ashes from automobiles. M. Mermelstein. 2,646,164, July 21.
Device for holding embroidery floss and textile weaving and sewing material. L. E. York. 2,646,196, July 21.
Device for liquid treatment of soil. H. A. Ingalls. 2,646,012, July 21.
Device for making butter pats. M. J. Weinberg. 2,645,852, July 21.
Device for rocking cribs. W. B. Hayes. 2,645,790, July 21.
Device for storing and conveying containers. A. Nussbaum and O. A. Becker. 2,646,177, July 21.
Device which aerates water. E. M. Poirot. 2,646,261, July 21.
Diaphragm pump and system. B. F. Schmidt. 2,646,000, July 21.
Die for cutting coat collar parts. J. J. Pietrafesa. 2,646,120, July 21.
Directional drilling. D. S. Johnston. 2,646,253, July 21.
Disazo dyestuffs. M. Kappeler, W. Steinemann, and W. Wehrli. 2,646,338, July 21.
Discharge device for weighing mechanism. O. C., H. G., and O. Niederer. 2,646,168, July 21.
Discharge outlet and closure assembly. G. B. Dorey. 2,646,008, July 21.
Disconnect coupling. G. H. Anderson. 2,646,294, July 21.
Dishwashing machine. D. W. Korns. 2,646,056, July 21.
Disk brake. P. W. Hovey. 2,646,135, July 21.
Dispensing system, Article. P. L. Law. 2,646,217, July 21.
Dispersing and felting fibers and mill. T. C. Duvall. 2,646,381, July 21.
Display rack support. M. Beauvais and G. A. C. Bey. 2,646,175, July 21.
Distortionless electrical resolver. W. H. Newell, H. F. McKenney, and L. J. Scheuer. 2,646,218, July 21.
Dolly frame for material-conveying elevators. V. C. Belt. 2,646,157, July 21.
Door checking and holding device. S. J. Galla. 2,645,810, July 21.
Door closer. H. J. Turney. 2,645,806, July 21.
Door lock. J. H. Roethel. 2,646,300, July 21.
Drafting mechanism for textile fibers. J. Noguera. 2,645,823, July 21.
Drafting textile fibers. W. J. Cabana. 2,645,822, July 21.
Drapery book holding device. F. A. Venn. 2,645,920, July 21.
Drapery pleat construction. A. M. Freeman. 2,646,116, July 21.
Drawer construction, Sliding. C. M. Abrahamson and K. P. Grube. 2,646,333, July 21.
Drier: *See*—
Clothes drier. Low side drier.
Grain drier.
Drill apparatus with safety control. A. B. Crichton, Jr., and C. G. Wennerstrom. 2,646,144, July 21.
Drill rig catwalk. T. L. Holley. 2,646,317, July 21.
Drilling equipment. J. M. Reynolds. 2,646,128, July 21.
Drinking tube. T. L. Jones. 2,646,311, July 21.
Drive cord tension device, Adjustable. H. Mendelson. 2,645,943, July 21.
Dry shaver. F. G. Slonek. 2,645,847, July 21.
Dual wheel wrench. V. Reach. 2,645,965, July 21.
Dumping and washing mechanism for egg separating cups. L. M. Sigler. 2,646,163, July 21.
Dust-laying emulsion. F. S. Roetler. 2,646,361, July 21.
Dyeing of cellulose derivative textile materials. G. C. Ward and W. T. Haggerty, Jr. 2,646,339, July 21.
Ejector pin assembly for mold bases. I. T. Quarnstrom. 2,645,815, July 21.
Electrical coil. A. D. Coggeshall and A. H. Caldwell. 2,646,535, July 21.
Electrical coupling structure. G. E. Hulatede. 2,646,511, July 21.
Electrical energy regulator. T. S. Ashe. 2,646,479, July 21.
Electrical precipitator for gas separation. C. E. Beaver. 2,646,132, July 21.
Electrical receptacle for electrical lighting appliances, Variable resistance auxiliary. R. A. McArron. 2,646,489, July 21.
Electrical terminal detecting signal. W. V. Eakins. 2,646,018, July 21.
Electrocardiograph, Direct writing. M. W. Edinburg. 2,646,336, July 21.
Electrode for alkaline batteries. P. A. C. Jacquier. 2,646,457, July 21.
Electroformed articles, Making. R. S. Dean. 2,646,396, July 21.
Electrolytic cell and battery. R. A. A. Jeannin. 2,646,455, July 21.
Electron oscillator circuit. L. J. Giacoletto. 2,646,531, July 21.
Electron tube. D. A. Sokolov. 2,646,524, July 21.
Electronic counter. J. C. Manley. 2,646,534, July 21.
Electroplating zinc using titanium containing electrolyte. R. J. Wean. 2,646,397, July 21.
Electroprocessing apparatus. H. P. Henderson. 2,646,398, July 21.
Elevator divider. C. H. Neer. 2,646,156, July 21.
End underframe weldment for railway cars of the passenger train type. A. G. Dean. 2,646,009, July 21.
Engine operating on the two-stroke cycle with exhaust turbine, Reciprocating internal-combustion. H. Sammons. 2,645,897, July 21.
Ethylene polymers, Preparation of. A. W. Harry. 2,646,425, July 21.
Extension keeper plate. B. Viola. 2,646,302, July 21.
Extension link for mowers. R. T. Spedding. 2,645,890, July 21.
Extrusion machine, Vertical. E. G. Bennett and C. L. Willis. 2,645,835, July 21.
Eye protective device. E. M. Splaine. 2,645,775, July 21.
Eyeshade. E. C. Dale, Jr. 2,645,774, July 21.
Fabric for garments and making the same, Textile interliner. R. H. Gillespie. 2,646,374, July 21.
Fabrication of storage battery plates. P. A. C. Jacquier. 2,646,456, July 21.
Facsimile apparatus. R. J. Wise and R. D. Parrott. 2,646,335, July 21.
Fan. G. E. Martin. 2,646,213, July 21.
Faucet. R. T. Cornelius. 2,646,248, July 21.
Faucet for gas-charged liquids. J. Schor. 2,646,073, July 21.
Faucet, Water. A. G. Tucci. 2,646,246, July 21.
Feed leveler. M. L. Smallegan. 2,646,024, July 21.
Feed mixing apparatus. S. C. Bates. 2,646,260, July 21.
Feed roll mechanism for saws. O. P. Smith. 2,646,088, July 21.
Felt hardening machine. R. I. Robbins. 2,645,837, July 21.
Film drying apparatus. J. L. Cahill. 2,645,800, July 21.
Finishing reclaim rubber. G. L. Brown and T. A. Johnson. 2,645,817, July 21.
Fire alarm switch. I. F. Pyles. 2,646,480, July 21.
Firearm with tilting locking block, Slide-actuated. L. R. Crittendon and P. R. Haskell. 2,645,873, July 21.
Fish bowl and hollow handle assembly. E. A. Rice. 2,646,021, July 21.
Fish lure. A. S. Chase. 2,645,875, July 21.
Fixture for skinning insulation from electrical conductors. E. S. Geary and G. W. Soderman. 2,645,938, July 21.
Flag holder. C. N. Anderson. 2,646,240, July 21.
Flash unit for starters' guns. W. E. Kroeger. 2,646,560, July 21.
Flow control valve. C. E. Adams. 2,646,078, July 21.
Fluid actuated snap-acting gate valve. J. E. Elkington. 2,646,075, July 21.
Fluid-operated rapid traverse mechanism for winding strand material. R. F. Dyer. 2,646,228, July 21.
Fluid transmission, Hydraulic type. L. E. Hutchison. 2,645,900, July 21.
Fluid transmission, Rotary pump and motor. R. A. Pyle. 2,645,002, July 21.
Fluorocarbon compounds and preparation of same. J. E. Carnahan and H. J. Sampson. 2,646,449, July 21.
Flush cylinder tubular night latch. A. Erkkila. 2,645,926, July 21.
Flush tank valve. C. J. Dorff. 2,646,069, July 21.
Forming imitation hand rift shingles. L. B. Dennison. 2,646,093, July 21.
Fowl feeding device, Automatic. R. K. Virgil. 2,646,023, July 21.
Frequency response control means for high-frequency amplifiers. O. F. Cheney. 2,646,471, July 21.
Frozen mix making device. P. Martin. 2,645,911, July 21.
Fuel burner liner. D. Meyer. 2,646,376, July 21.
Fulcrum grab. C. A. Sonderstrup. 2,646,305, July 21.
Furnace with baffled annular air-heating passageway, Air-heating. D. A. Marro. 2,646,033, July 21.
Galvanic cell. H. P. H. Walx. 2,646,458, July 21.
Galvanometer having balanced coil assembly. M. E. Morrow. 2,646,546, July 21.
Garbage disposal unit. M. J. Green. 2,646,222, July 21.





Gasoline fuels containing dimethyl carbinol and solvent oil. J. E. Neudeck. 2,646,348, July 21.
Gauge: *See*—
Aileron gauge.
Gauge for a punching apparatus, Stop. A. M. MacPheat. 2,646,122, July 21.
Gauge for chain saws, Depth. J. M. Hanson, Sr. 2,645,859, July 21.
Generator: *See*—
Oscillation generator.
Governor for internal-combustion engines and the like, Variable speed centrifugal. J. S. Jennings. 2,646,269, July 21.
Graduated connecting links for diversely insulated electric cables, Making. G. L. Pouzet. 2,645,819, July 21.
Grain drier. O. O. Hobson. 2,645,991, July 21.
Grating, Open floor. G. T. Beebe and H. M. Priest. 2,645,985, July 21.
Gravel spreader. M. R. Rasmussen. 2,645,986, July 21.
Grinding machine, Valve stem. H. E. Miller. 2,645,887, July 21.
Gyroscope. C. E. Huriburt and G. W. Boehm. 2,645,942, July 21.
Hairbrush. G. R. Seidner. 2,645,801, July 21.
Hair curler. M. F. Harris. 2,646,053, July 21.
Halogenated aromatic hydrocarbon dielectric containing diphenyl tin diethylate as a scavenger. R. L. Jenkins. 2,646,403, July 21.
Hammer, Power. H. E. Gibson. 2,646,100, July 21.
Handle: *See*—
Sectional law mower handle.
Handling fluent particles. R. C. Lassiat and R. T. Savage. 2,646,407, July 21.
Hardened montan wax derivatives. F. W. Breuer and D. T. Zentmyer. 2,646,436, July 21.
Hardening alloy gray cast iron. F. G. Sefing. 2,646,375, July 21.
Harvester, Conciting endless chain type onion. T. R. Warner. 2,645,889, July 21.
Head for spool, reel, and warp beams. R. V. Olson. 2,646,232, July 21.
Heat sealing machine. N. Langer. 2,646,105, July 21.
Heater: *See*—
Automobile heater.
Heater for buses, Standby hot water. E. A. Russell and N. O. Kirkby. 2,646,028, July 21.
Heel, Shoe. J. G. Ballasch. 2,645,864, July 21.
Helicopter. J. Edelman. 2,646,130, July 21.
High aperture four component objective of the Gauss type. H. Ito. 2,645,973, July 21.
High aperture wide angle four component Gauss type objective. H. Ito. 2,645,975, July 21.
High-frequency-tuner. R. F. Romero. 2,646,500, July 21.
High-voltage system. K. W. Robinson. 2,646,542, July 21.
Hinge, Automobile door. S. B. Atwood and W. J. Kush. 2,645,809, July 21.
Hinge construction. W. C. Buescher. 2,646,188, July 21.
Hinge construction for elevating chair seats. P. A. Terry. 2,646,106, July 21.
Hinge construction for receptacles composed of molded parts. N. W. Roop. 2,646,187, July 21.
Hinge for multisection overhead doors. J. F. McKee and M. E. Hartzler. 2,645,807, July 21.
Hinge for windows. E. Sörenholm. 2,645,811, July 21.
Hinges, Making. E. H. Bevens. 2,645,841, July 21.
Hod stand. H. M. Young, Jr. 2,646,239, July 21.
Holder: *See*—
Adjustable saw carrier holder.
Flag holder.
Knurling and burnishing tool holder.
Magnetic pot holder.
Work holder.
Hood latch. C. F. Kramer. 2,646,299, July 21.
Hook: *See*—
Lifting hook.
Hop picking machine. E. C. Horst, Jr. 2,645,893, July 21.
Hopper discharge outlet for railway cars. G. B. Dorey. 2,646,007, July 21.
Horizontal axis washer and squeezer extractor. M. W. Green. 2,645,916, July 21.
Hot strip furnace reel. F. Frielinghaus. 2,646,231, July 21.
Humidifier, Flush type. E. W. Bottum. 2,646,061, July 21.
Hydraulic flow regulator. H. Holland. 2,646,070, July 21.
Hydraulic transmission, Rotary pump and motor. D. A. Elkins. 2,645,901, July 21.
Hydraulic transmission, Variable ratio rotary pump and motor. D. A. Elkins. 2,645,903, July 21.
Hydrocarbon synthesis. M. T. Kendall. 2,646,442, July 21.
Hydrodesulfurization process. V. L. Crawford. 2,646,388, July 21.
Ice-making apparatus and method. M. G. Leeson. 2,645,910, July 21.
Ice shaving machine. B. F. Quintilian. 2,646,223, July 21.
Identification tag for cleansing or storage establishments. I. K. Sternberg. 2,645,867, July 21.
Illuminated decoration with reflector. J. Burnbaum. 2,646,497, July 21.
Impact crusher rotor with rigid hammers. J. Crystal. 2,646,224, July 21.
Implement for paring vegetables, Adjustable. A. M. Ferrin. 2,645,851, July 21.
Impregnating cellulose fibers and composition therefor. T. C. Whitner. 2,646,372, July 21.
Increasing the brightness of a cathode tube display, Means for. R. N. Straehl. 2,646,555, July 21.
Indexing mechanism, Hydraulic. E. J. Hirvonen. 2,645,981, July 21.
Indicator: *See*—
Pressure balance indicator.
Shockproof dial indicator.
V-beam height indicator.
Vehicle collision indicator.
Indicator for cranes, Load weight. C. L. Wetsel. 2,646,273, July 21.
Induction motor of the capacitor type. A. J. Lewus. 2,646,538, July 21.
Inhibiting corrosion of metals. W. B. Hughes. 2,646,399–400, July 21.
Inhibition of gelation in unsaturated polyesters with salts of amines. E. E. Parker. 2,646,416, July 21.
Insect trap. W. A. Pohlman. 2,645,877, July 21.
Insole for shoes, Cushioning. E. W. Town. 2,645,865, July 21.
Instrument, Circumcision. H. Bronstein. 2,646,047, July 21.
Instrument, Cutting. E. W. Gent. 2,645,849, July 21.
Instrument for drawing ellipses and related figures. J. W. Dibrell. 2,645,854, July 21.
Instrument, Ionization responsive. R. Futterknecht. 2,646,516, July 21.
Instrument, Marking. W. Kaufman. 2,645,853, July 21.
Insulated electrical tool. W. S. Chadwick. 2,646,304, July 21.
Interlock, Universal. R. L. Stratton. 2,646,474, July 21.
Irrigation valve. H. E. Bonander and P. A. Backman. 2,646,076, July 21.
Isopropenyl esters, Preparing. J. B. Dickey and T. E. Stanin. 2,646,437, July 21.
Jack: *See*—
Permanently mounted motor vehicle jack.
Jack shaft assembly with dado adapter for portable electric saws, Two-way. T. W. Kluck. 2,646,090, July 21.
Jar top remover with resilient cap engaging member. V. H. Goldsmith. 2,645,957, July 21.
Jaw arm for winding machines. W. E. Auten. 2,646,230, July 21.
Jaw trap latch dog bracket pan assembly and delayed-action guard. W. J. Bruske. 2,645,876, July 21.
Joint: *See*—
Universal joint.
Journal box. E. F. Wideman. 2,646,319, July 21.
Key duplicating machine. L. Sejarto and S. J. Stoll. 2,645,978, July 21.
Knot tying. J. C. Leary. 2,646,298, July 21.
Knurling and burnishing tool holder. M. J. Schlitters. 2,645,953, July 21.
Label machine. C. Guelette. 2,646,184, July 21.
Landing gear for model planes, Retractable. E. S. Cook. 2,645,882, July 21.
Laryngoscope, Foldable and separable. W. G. Allyn and C. S. Cook. 2,646,036, July 21.
Latch: *See*—
Combination controlled night latch.
Flush cylinder tubular night latch.
Hood latch.
Latch for lighting fixtures, Supporting. R. G. Marchisio. 2,646,498, July 21.
Latch tripping device. H. W. Sanford, Jr. 2,646,179, July 21.
Lavatory seat. R. Blackburn. 2,645,784, July 21.
Lens system, High aperture wide angle six element Gauss type objective. H. Ito. 2,645,974, July 21.
Lid, Paint can. L. M. Best. 2,646,193, July 21.
Lifting hook. F. H. H. Foss. 2,646,306, July 21.
Light and switch combination. V. R. Herterick. 2,646,477, July 21.
Light distillate compositions. D. A. Wagner. 2,646,349, July 21.
Light sensitive gaseous electron discharge device and circuit therefor. G. G. Carne. 2,646,533, July 21.
Lip imprinting device. B. N. Greene and S. S. Franklin. 2,646,054, July 21.
Liquefied petroleum gas fuel system. M. A. Ryan. 2,645,906, July 21.
Liquid level control. H. J. Raud. 2,645,915, July 21.
Liquid-liquid fractionation of glyceride oils. S. W. Gloyer. 2,646,439, July 21.
Loading and unloading apparatus. T. J. Maas. 2,646,182, July 21.
Loading machine for partially filled bags. E. G. Brunsvold. 2,646,162, July 21.
Lock: *See*—
Combination lock.
Door lock.
Lock and bolt operating mechanism for psychiatric screens. C. W. Kelly. 2,645,924, July 21.
Lock for outboard motors, Resilient tilting. R. N. Kircher, R. C. Heidner, and W. B. Burkett. 2,646,238, July 21.
Lock mechanism. F. J. McConnell and I. J. Fletcher. 2,645,927, July 21.
Lock nut assembly. E. W. Pummill. 2,646,098, July 21.
Locking device for container inserts, Flap. C. F. Gibbons. 2,646,202, July 21.

Locking means for folding laryngoscopes. C. S. Cook and H. L. Becker. 2,646,037, July 21.
Log debarking machine having whirling and rotating bark-removing tools. O. R. Kolpe, K. and O. B. Andersson. 2,646,082, July 21.
Loosening rayon yarn packages by simultaneous soaking and deformation. C. D. Vandenburgh. 2,646,342, July 21.
Low side drier. E. F. Hubacker. 2,645,912, July 21.
Low-temperature meterological balloons, Making. E. M. Nelson. 2,646,370, July 21.
Low-water-loss cement slurry. P. J. Lea. 2,646,360, July 21.
Lubricating grease, Fibrous. R. O'Halloran. 2,646,401, July 21.
Lumber shake. R. A. Wilde. 2,645,825, July 21.
Machine for compression of fluids. A. C. Layton. 2,646,207, July 21.
Machine for compression of gases, vapors, and liquids. A. C. Layton. 2,646,208, July 21.
Machine for crimping the bottom coils of coil springs. C. C. Smith. 2,646,086, July 21.
Machine for cutting tobacco and the like. P. Q. R. Schreiber. 2,646,095, July 21.
Machine for decorating sheet edges. W. L. Bostwick. 2,645,871, July 21.
Machine for forming wire garment hangers. G. R. Brekle. 2,646,085, July 21.
Machine for making hassocks. O. R. Haas. 2,646,013, July 21.
Magazine stock reel. A. H. Jobert. 2,646,087, July 21.
Magnetic check valve. W. Wagner. 2,646,071, July 21.
Magnetic coupling. A. L. Johnson. 2,645,878, July 21.
Magnetic pot holder. H. A. Kiler. 2,645,776, July 21.
Mailbox including spring urged door. F. M. Cuplin. 2,646,214, July 21.
Making and bonding brake friction material to a brake shoe. S. G. Tilden, Jr. 2,646,377, July 21.
Making white soap. F. L. Jackson and J. C. Bayer. 2,646,435, July 21.
Maleic polyester compositions. J. W. Kneisley. 2,646,410, July 21.
Manufacturing basic steel. K. Heimberg. 2,646,351, July 21.
Margarine color injector. B. T. Hensgen and J. A. Brendle. 2,646,190, July 21.
Massage device. D. Agosti. 2,646,030, July 21.
Material handling device. H. O. Phalin. 2,646,307, July 21.
Mechanical bindings, Manufacture of. C. D. Trussell. 2,645,816, July 21.
Mechanical collator. W. E. Thomas. 2,646,279, July 21.
Mechanism for filling diapensing guns. H. C. Paulsen. 2,646,199, July 21.
Medical apparatus. Q. H. Hu. 2,646,042, July 21.
Melting and dispensing apparatus. A. W. Wickesberg. 2,646,189, July 21.
Merry-go-round, Undulatory. C. E. Hurst. 2,646,281, July 21.
Metal belt for conveying and guiding strip traveling at high speed, Transversely slotted. E. T. Lorig. 2,646,161, July 21.
Metering apparatus for oxygen tents. J. Gilroy and A. R. Wiese, Jr. 2,646,041, July 21.
Milking machine pulsator. C. A. Thomas. 2,646,058, July 21.
Mill: *See*—
Rolling mill.
Milling attachment for universal machine tools. C. Haeslec. 2,645,979, July 21.
Mitten, Safety. W. E. Probert. 2,645,778, July 21.
Modified barium titanate ceramic materials. E. Wainer. 2,646,359, July 21.
Moistening device, Tape. P. W. Herrlinger. 2,646,020, July 21.
Molding method. E. Sörensen and H. Scharf. 2,645,836, July 21.
Molding thermosetting synthetic resin materials. A. C. Barlow, W. G. D. Carpenter, J. B. Cameron, and J. M. Griffith. 2,646,380, July 21.
Motor control mechanism for concrete mixer power plants. J. W. Lendved and E. A. C. Eickstaedt. 2,645,947, July 21.
Motor control system. R. B. Taylor. 2,646,540, July 21.
Motor control system, Electric. A. E. R. Arnot. 2,646,539, July 21.
Motor of the capacitor type, Induction. A. J. Lewus. 2,646,537–8, July 21.
Motor or pump, Fluid. L. R. Bergen. 2,646,004, July 21.
Motor with injection cylinder, Thermal. J. H. Jalbert. 2,646,026, July 21.
Mount for trailer hitches. A. F. Smith. 2,646,289, July 21.
Mounting means for door latches. R. C. Cerf, Jr. 2,646,301, July 21.
Mouthpiece cigarettes, Method of and apparatus for making. D. W. Molins. 2,646,048, July 21.
Moving object pulse echo selection circuit for radar systems. A. G. Emslie. 2,646,561, July 21.
Multicathode gaseous discharge device. H. L. von Gugelberg. 2,646,523, July 21.
Multilayer diaphragm. W. E. Whitney. 2,646,077, July 21.
Multiple flow column. D. C. Lockwood. 2,646,266, July 21.
Multiple recording of information. L. Perkel. 2,646,292, July 21.
Multiple rolling of strip. H. S. Orr. 2,645,842, July 21.
Multistage mixer-settler apparatus. B. V. Coplan and E. L. Zebroski. 2,646,346, July 21.
Musical instrument. P. Stabile. 2,645,970, July 21.
Musical instrument, Electrical. N. I. Daniel. 2,645,969, July 21.
Musical instrument, Electrical. J. M. Hanert. 2,645,968, July 21.
Net, Fisherman's landing. G. R. Collins. 2,645,874, July 21.
Noise limiting circuit. P. R. Bell, Jr. 2,646,502, July 21.
Nozzle closure-contact ring assembly for rockets. B. T. Bogard. 2,645,999, July 21.
Nozzle, Spray. D. J. Peeps. 2,646,313–4, July 21.
Nut piercing method. J. H. Friedman. 2,645,793, July 21.
Obtaining luster in cotton fabric by mercerizing and calendering the fabric. C. Fetscher. 2,646,341, July 21.
Oil level equalizing device for multiple compressor arrangement. E. P. Kellie. 2,646,212, July 21.
Oil seal construction. J. H. Victor. 2,646,295, July 21.
1,4-dicyano-2-butene, producing. G. C. Bassler. 2,646,443, July 21.
Organic arseno polysulfides. R. M. Kary. 2,646,440, July 21.
Oscillation generator. R. H. Varian, W. W. Hansen, and J. R. Woodyard. 2,646,512, July 21.
Oscillator. G. E. Hulstede. 2,646,525, July 21.
Oscillator and phase meter, Low-frequency. W. J. Hirtreiter. 2,646,517, July 21.
Oscillator, Piezoelectric crystal. W. S. Mortley. 2,646,509, July 21.
Oxamide, Preparing. J. D. Joffe and L. J. Beckham. 2,646,448, July 21.
Package. O. E. Seiferth. 2,646,357, July 21.
Packaging means. E. B. Whitehead. 2,646,165, July 21.
Packing for use between rotatable and fixed parts. P. Destoumieux and M. Amirault. 2,646,296, July 21.
Paint applicator, Roller type. M. P. Vengris. 2,645,845, July 21.
Paper indicated dobby. C. R. Kronoff. 2,646,080, July 21.
Paraffin wax composition. R. G. Capell, W. P. Ridenour, and J. A. Stewart. 2,646,362, July 21.
Passive vascular exerciser. L. V. Iwan. 2,646,038, July 21.
Pattern for horizontal casting systems. W. H. Johnson. 2,645,830, July 21.
Pattern for vertical casting systems. W. H. Johnson. 2,645,829, July 21.
Pedal for power-driven vehicles, Auxiliary accelerator left foot. E. T. Beckman. 2,645,048, July 21.
Permanently mounted motor vehicle jack. A. L. Fuster. 2,646,250, July 21.
Petroleum berbicide emulsions. F. S. Rostler. 2,646,350, July 21.
Pharmaceutical product for dysmenorrhea. M. J. Lewenstein. 2,646,385, July 21.
Phase-type direction finder system. W. D. McGuigan. 2,646,566, July 21.
Photographic emulsions, Preparation of. R. E. Damschroder. 2,646,426, July 21.
Pin fastener with hinged end. A. G. Wistedt. 2,645,833, July 21.
Plan position indicator system. W. F. Goodell, Jr. 2,646,536, July 21.
Playpen, Back seat. J. K. Wisner, Jr. 2,645,780, July 21.
Plumbing manifold. A. W. Allen. 2,645,783, July 21.
Pneumatic operating assembly for air-blast circuit interrupters. B. P. Baker and H. M. Wilcox. 2,646,483, July 21.
Polar relay biasing circuit. W. B. Calloway. 2,646,464, July 21.
Polyamide interpolymer plasticized with diacetin. C. W. Taylor. 2,646,413, July 21.
Polymeric pyrazolone couplers. C. F. H. Allen and T. T. M. Laakso. 2,646,421, July 21.
Polymerizing monovinyl aromatic compounds with rubber. J. L. Lang. 2,646,418, July 21.
Polymers of alkenyl aromatic compounds and acrylonitrile and making the same. H. W. Wehr and F. B. Nagle. 2,646,423, July 21.
Polyvinyl alcohol gels. D. E. Sargent and W. F. Amon, Jr. 2,646,411, July 21.
Polyvinyl chloride polymer dispersion. R. H. Gillespie. 2,646,414, July 21.
Portable stand. G. M. Hinesman. 2,646,237, July 21.
Pot-type oil burner. W. O. Horne. 2,646,110, July 21.
Power take-off system and apparatus. A. B. Crichton, Jr., and C. G. Wennerstrom. 2,645,944, July 21.
Pressure balance indicator. D. R. de Boisblanc. 2,645,949, July 21.
Pressure regulating valve. E. P. Kellie. 2,645,884, July 21.
Pressure type container. E. W. Gronemeyer. 2,646,102, July 21.
Printing machine. C. G. Krakenberg. 2,645,996, July 21.
Printing plate solidifying and dimensioning method. D. C. Cottrell and C. C. Sweet. 2,645,998, July 21.
Process and apparatus for continuous milling of plastic material. H. A. Swallow. 2,645,813, July 21.
Producing calcium chloride pellets. W. R. Bennett and L. N. Carmouche. 2,646,343, July 21.





Producing fibers from glass and other heat-softenable materials, Method and apparatus for. C. J. Stalego. 2,645,814, July 21.
Producing plastic rimmed spools. L. H. Morin. 2,646,378, July 21.
Producing reflecting films, decalcomanias, and signs. F. L. Porth. 2,646,364, July 21.
Profiling attachment. O. von Zelewsky. 2,645,967, July 21.
Propeller pitch change mechanism. J. M. Mergen and H. Murphy. 2,646,131, July 21.
Protector: *See*—
Cigarette protector.
Pulley assembly, Variable-speed. E. H. Schleif. 2,645,946, July 21.
Pump: *See*—
Centrifugal pump. Rotary piston air pump.
Pump structure, Circulator. W. R. Ray. 2,646,001, July 21.
Pumping unit, Hydropneumatic. T. D. Aller and P. E. Noll. 2,645,899, July 21.
Purification of dimethyl terephthalate by distillation. J. E. Hughes, H. S. Kemp, and C. Pyle. 2,646,393, July 21.
Pyrazine derivatives and preparing the same. H. P. Dalalian and S. Kushner. 2,646,431, July 21.
Quinoline dyes of the polymethine series and preparation. L. G. S. Brooker and D. W. Heseltine. 2,646,430, July 21.
Radio equipment, Single-sideband. J. L. A. McLaughlin. 2,646,499, July 21.
Radio navigation system. P. Périlhou. 2,646,564, July 21.
Radio object-location system for moving target indication. A. G. Emslie. 2,646,562, July 21.
Rail flaw-detecting device. A. E. F. Billstein. 2,645,938, July 21.
Railroad journal box. R. Altson. 2,646,320, July 21.
Rake, Hydraulically operated. H. L. Berkley. 2,645,891, July 21.
Rear gang for tractor cultivators. A. V. Raught. 2,645,988, July 21.
Record adapter and automatic speed changer. H. B. Weingarden. 2,646,284, July 21.
Record card punching and numbering machine. F. M. Carroll. 2,645,994, July 21.
Record player. D. P. Doncaster. 2,646,283, July 21.
Recorder with retractable web-supporting means. G. Gorham. 2,646,337, July 21.
Recording apparatus, Facsimile. R. G. Thompson. 2,646,518, July 21.
Recording device, Time. A. Marchand. 2,646,334, July 21.
Recurding the order of finishing in contests, Means for. S. J. Samuels. 2,646,538, July 21.
Rectifier. S. Benzer and K. Lark-Horovitz. 2,646,536, July 21.
Reel: *See*—
Hot strip furnace reel. Magazine stock reel.
Reel having means for engaging the convolutions of a thread wound thereon, Thread processing. H. A. Kuljian. 2,645,019, July 21.
Reel reversing drive. J. L. Clough. 2,646,229, July 21.
Refined fats and oils, Producing. E. M. Frankel. 2,646,438, July 21.
Refining of long chain aliphatic alcohols. R. V. Green and E. P. Jensen. 2,646,394, July 21.
Refrigeration system of the inert gas type, Absorption. S. M. Backstrom. 2,645,908, July 21.
Refrigerator, Two-temperature. L. A. Philipp. 2,645,909, July 21.
Regulator: *See*—
Automatic temperature regulator. Hydraulic flow regulator.
Window regulator.
Electrical energy regulator.
Removal of volatile products from photographic emulsions. G. D. Hill and R. E. Damschroder. 2,646,353, July 21.
Resolution process and compounds produced therein. R. L. Clark and W. H. Jones. 2,646,445, July 21.
Restraining device. G. L. Martin. 2,645,922, July 21.
Retort for heating the edge of skelp in the manufacture of welded pipe or tubing. W. W. Kuntz, Jr. 2,646,267, July 21.
Retractile articles, Making. N. Drisch and R. Fays. 2,645,818, July 21.
Revolving spud line. B. F. Bowman. 2,646,255, July 21.
Rigid thermoplastic compositions comprising vinyl halide polymers with interpolymers of styrene and acrylonitrile. G. B. Jennings. 2,646,417, July 21.
Roentgen apparatus. K. W. W. Noschis. 2,646,514, July 21.
Rolling mill. J. D. Kiss. 2,646,103, July 21.
Roof gutter. D. Ager. 2,646,011, July 21.
Rotary piston air pump. A. Brüm. 2,646,206, July 21.
Rutin derivatives and production thereof. P. Chabrier, P. R. L. Giudicelli, and C. H. Génot. 2,646,428, July 21.
Safety catch. E. Morehouse. 2,645,834, July 21.
Saligenin derivatives, Production of. E. C. Britton and J. D. Head. 2,646,446, July 21.
Sample display case. J. Daleo and S. Foglio, Jr. 2,646,143, July 21.
Saw blade with piercing means, Reciprocating. F. S. Russell. 2,646,094, July 21.
Saw, Jig. W. L. Gaskell. 2,646,089, July 21.
Scale for load carrying vehicles, Vehicle mounted hydraulic. H. M. Swift. 2,646,272, July 21.
Scale platform supporting means, Hydraulic. L. S. Williams. 2,646,236, July 21.
Scales, Spring weighing. M. A. Weckerly. 2,646,274, July 21.
Scissors pivot structure. E. L. Sejman and L. Lorenzo. 2,645,850, July 21.
Scoring system. W. W. Wood, Jr. 2,646,119, July 21.
Screen: *See*—
Well screen.
Screw driver, Power. L. E. Austin. 2,646,091, July 21.
Sealing composition for transparentized paper. R. R. Parmentier. 2,646,363, July 21.
Sealing construction for plug valves. L. S. Hamer. 2,646,247, July 21.
Seam-welding apparatus. C. E. Coates and A. L. Williams. 2,646,491, July 21.
Seat: *See*—
Baby's bath seat. Lavatory seat.
Seat mounting means, Infant's toilet. E. Bergman. 2,645,785, July 21.
Sectional lawn mower handle. P. H. Rosenberg. 2,645,808, July 21.
Seed ejector for planters. H. Wechsler. 2,646,191, July 21.
Self-furring corner lath. R. F. Stockton. 2,645,930, July 21.
Self-selvager for looms. B. M. Harris. 2,646,084, July 21.
Self-traversing drive roll. J. J. Calhoun and H. M. Cook. 2,646,227, July 21.
Separating fluids, Method and apparatus for. H. C. Schutt. 2,646,134, July 21.
Separation and recovery of components of a solution. J. M. Weiss. 2,646,171, July 21.
Separation of materials of different specific gravity and sizes, Process and apparatus for the. W. C. Fox and J. N. J. Leemau. 2,646,169, July 21.
Separator: *See*—
Centrifugal separator.
Separator for cotton harvesters. L. G. Fowler. 2,645,821, July 21.
Sequential double contact switch. A. J. Vakavik. 2,646,484, July 21.
Sheet edge trimmer for printing presses. J. J. Isella. 2,645,995, July 21.
Sheet measuring apparatus. A. H. Bates, Jr., C. F. Mullinax, and W. W. Macomson. 2,645,939, July 21.
Shield for neurocalometers. G. E. Anderson. 2,646,035, July 21.
Shock absorber, Double-acting hydraulic piston. C. Granel and M. Helbig. 2,646,136, July 21.
Shockproof dial indicator. G. H. Andersson. 2,645,857, July 21.
Shock testing machine, Variable duration. K. W. Johnson. 2,645,031, July 21.
Shoe or boot, Casing sealing. J. L. Strickler. 2,646,124, July 21.
Short fulcrum for weighing scale levers. H. F. Rice. 2,646,318, July 21.
Shutter construction and operator. R. A. Davis. 2,645,828, July 21.
Sign. W. L. Ernst. 2,645,868, July 21.
Signal: *See*—
Electrical terminal detecting signal.
Signal balloon. C. H. Chetlan. 2,646,019, July 21.
Signal reflector for vehicles, Safety. L. M. Wilford. 2,645,977, July 21.
Signal responsive device. J. P. Eckert, Jr. and J. W. Mauchly. 2,646,501, July 21.
Skating device, Animated. M. Richter. 2,645,879–80, July 21.
Ski tow. H. F. Swenson. 2,646,005, July 21.
Skid for portable buildings. H. V. Snyder. 2,646,285, July 21.
Skull crusher. L. Te Desco. 2,646,225, July 21.
Slack adjuster, Automatic. G. B. Dorey. 2,646,139, July 21.
Slack adjuster, Brake. G. B. Dorey. 2,646,137–8, July 21.
Slack adjuster for air brakes, Automatically operable. G. B. Dorey. 2,646,140, July 21.
Slub catcher for use on textile machinery. J. M. Shires and B. G. Foster. 2,645,839, July 21.
Smoke and spark arrester for cupolas. M. W. Goldberg. 2,646,263, July 21.
Smoke apparatus, Portable collapsible. J. H. Voss. 2,645,993, July 21.
Smoking appliance. W. L. Webster. 2,646,050, July 21.
Smoking device and flashlight, Combined. G. Lyeso. 2,646,051, July 21.
Snap sampler. J. Kohl, E. G. Reid, and L. R. Zumwalt. 2,645,940, July 21.
Snow shield for motorcar windshields. W. J. Berty. 2,646,118, July 21.
Socket, Lamp. S. W. Pollock. 2,646,554, July 21.
Solids characteristics tester. D. L. Arenberg. 2,645,933, July 21.
Solids lift disengager. R. Kollgaard. 2,646,316, July 21.
Solvent recovery with liquid carbon dioxide. A. W. Francis. 2,646,387, July 21.

Spark plug heating and protecting attachment. J. E. Holmberg and A. J. Gruener. 2,646,029, July 21.
Speaker and heater for outdoor theaters, Combination. S. Takach. 2,646,496, July 21.
Spindle and stripper therefor. Cotton-picking. A. W. Weems. 2,645,892, July 21.
Splitting and skinning machine, Fish fillet. F. H. Jensen. 2,645,812, July 21.
Splitting machine. A. S. Dumas. 2,645,921, July 21.
Spool. M. Gazet. 2,646,233, July 21.
Spring. H. H. Norman. 2,646,108, July 21.
Spring means. N. E. Wahlberg and G. V. Hedstrom. 2,646,275, July 21.
Spring mechanism for slack adjusters. G. B. Dorey. 2,646,141, July 21.
Sprinkler. G. K. Ware and G. J. Filetz. 2,646,312, July 21.
Stabilizer for strip approaching a shear, Pass-line. L. R. Partridge. 2,646,278, July 21.
Stake body. B. F. Leber. 2,646,310, July 21.
Stand: *See*—
  Hod stand. Portable stand.
Stand for linoleum rolls, Safety. M. W. Hutten and F. S. Mone. 2,646,174, July 21.
Staple cutter and method. R. W. Peterson. 2,646,121, July 21.
Staple driver guide for staple driving implements, Removable. L. J. Dugin. 2,645,773, July 21.
Steering apparatus, Vehicle short turn. D. C. and W. D. Chambers. 2,646,291, July 21.
Stock straightener for cold header devices. J. H. Friedman. 2,646,102, July 21.
Stop device for chucking means. W. B. Retz. 2,646,152, July 21.
Storm window structure. D. R. Hodgins. 2,646,117, July 21.
Stove, Utility. V. R. Wagner. 2,646,031, July 21.
Strapped magnetron and method of strapping. A. T. Nordsieck. 2,645,843, July 21.
Streptomycin 2-hydroxy-4-amino benzoate. R. A. Patelski and P. P. Regna. 2,646,427, July 21.
Striking, casting, and bolster center filler for railway car construction, Combined. K. F. Nystrom. 2,646,010, July 21.
Strip applying mechanism in or for bookbinding machines. T. B. Hawkes. 2,646,104, July 21.
Stud driving tool. M. H. Walker. 2,645,772, July 21.
Support: *See*—
  Display rack support.
Support for fire extinguishers. R. W. Rycroft. 2,646,243, July 21.
Support for luminous tubing. R. V. Staaf. 2,645,831, July 21.
Surface active compounds. W. B. Hughes. 2,646,405–6, July 21.
Surface contour measurement. P. J. Herbst. 2,645,971, July 21.
Surface grinder. D. R. Peterson. 2,645,886, July 21.
Suturing device, Mechanical. B. S. Priestley. 2,646,045, July 21.
Sweetening hydrocarbon distillates. G. H. Weisemann. 2,646,389, July 21.
Switch: *See*—
  Connector switch. Sequential double contact switch.
  Fire alarm switch.
Switch and power take-off device, Electric. R. H. Goodrich and N. W. Densmore. 2,646,475, July 21.
Switch apparatus, Manually operated selecting and controlling. A. W. Vincent. 2,646,473, July 21.
Switch closing mechanism. G. M. Euler and E. A. Desautels. 2,646,478, July 21.
Switch for signaling device for stokers and the like. H. G. Landry. 2,646,476, July 21.
Symmetrical sweep centering control. R. H. Mathes. 2,646,527, July 21.
Synthesis of quinaldinium salts. D. W. Heseltine. 2,646,433, July 21.
Synthetic linear condensation polymers containing phosphorus. P. W. Morgan. 2,646,420, July 21.
Syringe for medical use, Piston. S. Hertig-Hüsler and W. Hertig. 2,646,043, July 21.
System for generating a periodic scanning current. A. Hazeltine. 2,646 532, July 21.
System for generating scanning currents. A. Hazeltine. 2,646,526, July 21.
System for synchronizing series of recurring pulse emissions. G. H. Musselman. 2,646,510, July 21.
Table: *See*—
  Vertically adjustable drafting board table.
Table slide mechanism, Extension. P. Snyder. 2,646,323, July 21.
Table top and back splash construction, Knockdown. J. Stanitz. 2,646,326, July 21.
Table with sectional top, Folding. J. W. Bereman. 2,646,324, July 21.
Takedown type swingable wall bracket. R. E. McLean. 2,646,241, July 21.
Tank: *See*—
  Water saving flush tank.
Tape measure. A. I. Eyster. 2,645,856, July 21.
Telescope mounting for rifles. J. T. Ivy. 2,645,855, July 21.
Television image reproducing system, color. G. C. Sziklai and F. J. Darke, Jr. 2,646,462, July 21.
Television test system. F. C. Grace and R. G. Artman. 2,646,461, July 21.
Television tuner. F. J. Marco. 2,646,513, July 21.
Tension control device for looms or the like. C. Christiansen and G. O. K. Rüsch. 2,646,079, July 21.
Tent construction. R. L. Blanchard. 2,646,057, July 21.
Testing machine, Tablet hardness. R. Albrecht. 2,645,936, July 21.
Testing of plastic flow. F. H. MacLaren. 2,645,932, July 21.
Testing sheet materials. M. F. Skalmusky, C. H. Root, and R. C. McKee. 2,645,937, July 21.
Textile size comprising an aqueous solution of urea and a poly alpha-alkyl acrylic acid or a partial salt thereof. W. M. Bruner and J. C. Lehr. 2,646,412, July 21.
Textile treating machine. E. J. Berger and H. W. Matthews. 2,646,194, July 21.
Therapeutic fat product. L. W. Wachtel and C. E. Meyer. 2,646,354, July 21.
Therapeutic water-soluble chlorophyll-containing feed. M. L. Rakieten. 2,646,384, July 21.
Thiosemicarbazide, Preparation of. J. C. Paterson. 2,646,447, July 21.
Thread forming method and apparatus. H. E. Pfingston. 2,645,954, July 21.
Threading machine fixture. J. F. Ross. 2,645,794, July 21.
Tie bar for insulated concrete walls. C. B. Jones. 2,645,929, July 21.
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Toll collector device, Automatic. J. R. Stovall, Jr. 2,646,215, July 21.
Tool: *See*—
  Bolt holding tool. Well formation testing tool.
  Insulated electrical tool. Wire pulling tool.
  Stud driving tool.
Tool for casing protectors, Installation. J. F. Medearis. 2,646,249, July 21.
Toolholder. N. R. Longe. 2,645,844, July 21.
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Torque limiting drive for multiple drill and tapping heads. T. G. Linderme. 2,646,149, July 21.
Towing device with steering attachment. R. S. Cox. 2,646,290, July 21.
Toy, Self-propelled floating. A. de Salvo. 2,645,883, July 21.
Tractor bumper. H. A. Ferrell. 2,646,303, July 21.
Tractor dirt handling attachment. L. T. McGee. 2,645,866, July 21.
Trailer caravan, Collapsible. E. T. Tuson. 2,646,309, July 21.
Transfer paper. C. Davis and N. A. Thacker. 2,646,367, July 21.
Transformer, Variable. G. M. Shingledecker and G. C. Catulle. 2,646,552, July 21.
Transparentizing paper. R. R. Parmentier. 2,646,369, July 21.
Transporting apparatus. N. F. Alvare. 2,646,178, July 21.
Trap: *See*—
  Insect trap.
Treating natural cellulose textiles to partially esterify them and then treating with a resin condensation product and products resulting therefrom. R. F. Nickerson. 2,646,340, July 21.
Treatment of papermaking fibers with organosilicon compounds. C. W. MacMullen, R. C. Shaver, and R. L. Titus. 2,646,373, July 21.
Trimable servo tab with balanced, antibalanced, and spring tab action intended especially for aircraft. T. N. G. Lidmalm and N. F. L. Bengtsson. 2,646,234, July 21.
Tube: *See*—
  Color television picture tube. Drinking tube.
  Electron tube.
Tube shield and socket mounting assembly. S. M. Del Camp. 2,646,460, July 21.
Turbocompressor. H. Kohlmann and G. Zellbeck. 2,646,210, July 21.
Two-directional dynamic braking circuit. S. J. Leaniak. 2,646,541, July 21.
Two-pass high-pressure reactor. R. L. Jacks and G. L. Carter. 2,646,347, July 21.
2,6-diketopurines, Preparing. A. H. Homeyer. 2,646,432, July 21.
Ultrahigh-frequency tetrode. H. D. Doolittle. 2,646,470, July 21.
Unit for cutting materials by heat. R. W. Fegan. 2,646,494, July 21.
Universal joint. L. Boltuch. 2,646,242, July 21.
Universal link conveyer chain. E. N. Michna. 2,646,160, July 21.
Unsaturated dimers of alpha-alkyl styrenes, Making. W. S. Thurber. 2,646,450, July 21.
V-beam height indicator. H. P. Stabler. 2,646,563, July 21.
Valve: *See*—
  Automatic well flow valve. Irrigation valve.
  Flow control valve. Magnetic check valve.
  Fluid actuated snap-acting gate valve. Pressure regulating valve.
  Flush tank valve. Variable stroke cushioned valve.
Valve. C. W. Tyson. 2,646,065, July 21.





Valve apparatus. G. A. Colton. 2,646,064, July 21.
Valve for container washers. W. H. Sohn. 2,646,244, July 21.
Valve for hydraulic motors, By-pass. C. E. Deardorff. 2,646,025, July 21.
Valve for portable irrigation pipes, Automatic drain. E. E. Wittner and R. M. Sherman. 2,646,059, July 21.
Valve for water treating apparatus, Selector. J. F. Sebald. 2,646,072, July 21.
Valve mechanism, Pressure regulating. L. P. Benua, J. L. Coulter, and R. H. Orthoefer. 2,645,885, July 21.
Valve, particularly for lubricating systems, One-way. G. Nemetz. 2,646,066, July 21.
Valve shop cabinet. G. C. Wilhide. 2,646,329, July 21.
Vane track for hydrodynamic machines. W. Ferris. 2,646,003, July 21.
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Vegetable oils and preparing the same, Winter. H. D. Royce. 2,646,356, July 21.
Vehicle collision indicator. L. V. Wilson. 2,646,016, July 21.
Vehicle push block attachment. A. J. Kytola. 2,646,287, July 21.
Vending machine mechanism. S. L. Schlanger. 2,646,153, July 21.
Venetian blind. L. R. Bocher and O. K. Skiver. 2,646,115, July 21.
Venetian shade. P. A. Kearny. 2,646,114, July 21.
Ventilated wall. E. J. Titsworth. 2,645,824, July 21.
Ventilator for buildings having pitched roofs. A. L. Simblest. 2,645,992, July 21.
Vertically adjustable drafting board table. E. Laxo. 2,646,322, July 21.
Vertically extended dead light panel of passenger railway cars. R. Eksergian and M. Watter. 2,646,008, July 21.
Vessel, Drinking. S. L. Atkins. 2,646,200, July 21.
Vibrator unit for multicolor printing presses. C. C. Grede. 2,645,997, July 21.
Vise having toggle-locked pivoted jaw, Work-centering. J. R. Brinkley. 2,645,961, July 21.
Vitamin $B_{12}$-active product from sewage sludge, Preparing. C. S. Miner, Jr., and B. Wolnak. 2,646,386, July 21.
Voice-operated system. K. H. Davis and A. C. Norwine. 2,646,465, July 21.
Voltage regulation, Saturable reactor. A. D. Gilchrist. 2,646,543, July 21.
Volume control apparatus, Ear response compensated. J. M. Hanert. 2,646,468, July 21.
Wagon hitch with automatic unit and lever releasing gear. R. P. Grigsby. 2,646,288, July 21.
Wallet and purse, Combined. S. Knee and G. Markus. 2,646,096, July 21.
Warp tension let-off device for looms. L. Ritsky. 2,646,081, July 21.
Washer: *See*—
  Continuous progressive cylinder washer.
Washing and extracting machine, Combined. J. B. Kirby. 2,645,917, July 21.
Watch mechanism, Self-winding. G. Dubois. 2,645,895, July 21.
Water-repellent nonfibrous cellulosic material and preparing same. W. M. Wooding and T. J. Suen. 2,646,368, July 21.
Water saving flush tank. H. V. Becker. 2,645,780, July 21.
Wattmeter, Recording. E. C. Gregg, Jr. 2,646,547, July 21.
Waveguide radiator, Electromagnetic. L. J. Chu. 2,646,506, July 21.
Weighing machine. J. J. Thayer. 2,646,270, July 21.
Well casing soil sampler. H. E. Hylbak. 2,646,252, July 21.
Well construction. J. M. Dunn. 2,646,129, July 21.
Well formation testing tool. C. W. Breukelman. 2,646,127, July 21.
Well screen. G. D. Goodner. 2,646,126, July 21.
Wheel: *See*—
  Automotive tire wheel.
Wheel for vehicles rolling on rails, Resilient. A. Boschi. 2,646,308, July 21.
Wheel stabilizer means for hand guided garden plows. M. E. Garlock. 2,645,990, July 21.
Wheel testing device. J. H. Bender and D. H. Shooter. 2,645,860, July 21.
Winding mechanism for self-winding watches. M. P. Huguenin. 2,645,894, July 21.
Window construction. C. J. Roos. 2,645,826, July 21.
Window for panels. A. J. Koll. 2,645,827, July 21.
Window regulator. C. T. Fezzey. 2,646,276, July 21.
Window structure and glazing seal therefor. W. C. Watkins. 2,646,142, July 21.
Wire pulling tool. R. F. Black, Jr., and B. T. Lapsley. 2,645,956, July 21.
Wire stripping and twisting device. W. F. Fuchs and V. Lekan. 2,645,959, July 21.
Workbench and drawing table, Combination. J. A. Swainbank. 2,646,330, July 21.
Work holder. H. Zähner. 2,645,962, July 21.
Work holder supported and clamped between vise jaws. C. M. Schmitt. 2,645,963, July 21.
Wrench: *See*—
  Dual wheel wrench.
Wrench with ratchet-controlled movable jaw, Pipe. G. D. Mead. 2,645,966, July 21.
Wrist bandager. E. Chapados. 2,646,034, July 21.
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# CLASSIFICATION OF PATENTS

## ISSUED JULY 21, 1953

NOTE.—First number = class, second number = subclass, third number = patent number.

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## United States Court of Appeals
## District of Columbia Circuit

NELLIE PAULINE FLETCHER AND WILLIAM ARTHUR FLETCHER, APPELLANTS

*v.*

ROBERT C. WATSON, COMMISSIONER OF PATENTS, APPELLEE

*No. 11550. Decided April 9, 1953*

[204 F.2d 68; 97 USPQ 56]

PATENTABILITY — PARTICULAR SUBJECT MATTER — ELECTRICAL METHODS AND APPARATUS.

The judgment of the lower court that the appellants' application to electrical methods and apparatus does not disclose the subject matter in the full, clear, concise and exact terms required by law, that the described method and apparatus are inoperative to produce the claimed results, and that the claims are not drawn to patentable subject matter, is affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

*William Arthur Fletcher* and *Nellie Pauline Fletcher*, appellants, pro se.

*E. L. Reynolds* (*H. S. Miller* of counsel) for appellee.

Before CLARK, WILBUR K. MILLER, and PRETTYMAN, *Circuit Judges*

WILBUR K. MILLER, *Circuit Judge*:

In this action under R. S. 4915, 35 U. S. C. 63, Nellie P. Fletcher and William A. Fletcher sought authorization of the allowance of claims 1 to 39 of their application for a patent which had been rejected by the Patent Office. The Fletchers appeal from the order of the District Court, entered after hearing, which dismissed their suit.

The application, bearing Serial Number 614,880, is entitled "Electrical Methods and Apparatus" and its disclosure purports to relate to radiation of various types, the transmutation of substances, and the generation of energy. The appellants' brief contains a description of the nature of their invention which includes the following:

"The invention relates broadly to method and apparatus designed for use in modifying or assigning velocity energies or electric potentials, of ray particles or waves of the electric wave spectrum, thereby making it possible to change at will the electrical combination in a 'mass' including solids, liquids and gases . . .

"According to an important characteristic of this invention there is involved in this broad process of assigning velocity energies, a principle termed 'super-discharging' or an intense discharge of velocity energy resulting from applying to velocity or mass, to which there is inherent or with with which there has been associated assigned velocity, mass oscillation or other excited energy, further mass or velocity, so that the resultant discharge or release notably exceeds the normal or preconceived value. Among the inherent and associated energies is that of the potential field.

". . . this idea and means is utilized to produce the modification or assigning of velocity to a 'moving mass,' enabling as a result the production among other things of previously unknown release and utilization of atomic energy . . ."

The Examiner's decision was that the specification does not disclose the subject matter in such full, clear, concise and exact terms as to enable those skilled in the art to practice the alleged invention; that the method and apparatus described therein are inoperative to produce the results claimed therefor; and that the claims are drawn to subject matter which is not sufficiently useful and important to support a patent within the meaning of R. S. 4893, 35 U. S. C. 36. These holdings were affirmed by the Board of Appeals of the Patent Office. The evidence before the District Court consisted of documentary and physical exhibits; no witnesses were introduced.

Application No. 614,880, filed with the Patent Office September 7, 1945, has heretofore been considered by this court under other circumstances. It was one of the bases of an application which the Fletchers made to the Atomic Energy Commission for royalty fees, just compensation and grant of award under the Atomic Energy Act of 1946 (60 Stat. 755, 42 U. S. C. 1801 et seq.) on the theory that the Government had used the invention therein described in its atomic energy program. The claim was discussed at length by the Patent Compensation Board of the Atomic Energy Commission in an opinion styled *In re Fletcher and Fletcher*, 84 USPQ 386 (1950). The Board found that application No. 614,880 purports "to relate to electrical and radiation methods and apparatus"; that it contains "no comprehensible teaching to enable one skilled in the art to make, compound or to use the same." It also found the application "not useful in the production of fissionable material or in the utilization of fissionable material or atomic energy." Summing up, the Patent Compensation Board said:

"The problem here is not merely one of lack of formality or awkwardness of expression, or even unorthodox use of terminology. At the hearings applicants were given full opportunity to translate the disclosures made in the applications into a comprehensible definition of the structures and phenomena involved. This effort yielded little more, if anything, than is evident from the documents."

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Thus the Patent Compensation Board recognized in that case, as the Patent Office and the District Court did in this one, the nebulous nature of the appellants' disclosures, which is illustrated by the portions of their own description which we have quoted above. When the proceeding before the Atomic Energy Commission came to us, we held[1] there was ample evidence to support the finding of the Commission

". . . that the alleged inventions and discoveries of petitioners [Fletchers] were not useful in the production of fissionable material or in the utilization of fissionable material in atomic energy for a military weapon . . ."

From the foregoing it is seen that the Fletchers come to us on this appeal with the burden of overcoming the presumption that the Patent Office and the District Court are right.[2] Moreover, their burden is made heavier by the Atomic Energy Commission's conclusion that application No. 614,880 does not give a comprehensible definition of the structures and phenomena involved, which we affirmed on appeal. At the judicial hearing in this case, the Fletchers made no effort to translate the application's disclosures into such a definition, just as they did not in the proceeding before the Atomic Energy Commission.

AFFIRMED.

[1] *Fletcher* v. *United States Atomic Energy Comm'n*, 89 U. S. App. D. C. 218, 221, 192 F.2d 29 (1951).
[2] *Abbott* v. *Coe*, 71 App. D. C. 195, 109 F.2d 449 (1939).

## U. S. Court of Customs and Patent Appeals

THE MASTER, WARDENS, ETC.

v.

CRIBBEN AND SEXTON CO.

*No. 5931. Decided March 11, 1953*

(202 F.2d 759; 97 USPQ 162)

1. TRADE-MARKS—COMMON LAW PROTECTION.

At common law the rights of owners of trade-marks have been repeatedly recognized regardless of registration.

2. SAME—GEOGRAPHICAL NAME—CRITERIA FOR REGISTRATION.

A geographical name which for a long period has referred exclusively to a product made at the place, and not to the place itself, may properly be registered as a trade-mark.

3. SAME—ACT OF 1946—SECTION 2(f) CONSTRUED.

*Held* that the proper construction of section 2(f) of the act of 1946 requires that the burden of proof rests upon the applicant to establish that the mark of the applicant has become distinctive in commerce, and distinctiveness should not be recognized without completely overwhelming proof with respect to all aspects of the matter.

4. SAME—ACT OF 1946—PROOF OFFERED UNDER SECTION 2(f) HELD INSUFFICIENT.

*Held* that the mere affidavit by applicant's secretary together with the testimony of several witnesses clearly does not constitute a sufficient basis for the registration of the mark "Sheffield" for use on stoves and ranges.

5. SAME—REGISTRATION IN FOREIGN COUNTRY—CERTIFICATE ESTABLISHES THAT MARK IS IN FORCE.

*Held* that a certificate of the British Patent Office that the mark "Sheffield" was registered in Great Britain for stoves and ranges was an official document which should have been considered by the officials of the Patent Office as presumptive evidence that the mark was still in force in that country for use on the products named.

6. SAME—ACT OF 1946—MARK MAY BE REFUSED ALTHOUGH GOODS ARE DIFFERENT.

Rule restated that refusal of registration may be required under the act of 1946 where there is likelihood of confusion, even though technically the goods may fall in different categories.

7. SAME — REGISTRABILITY — "SHEFFIELD" FOR USE ON STOVES AND RANGES.

*Held* that applicant should be refused registration of the mark "Sheffield" for use on stoves and ranges on the ground that it consists of matter which falsely suggests a connection with the industry at Sheffield, England.

APPEAL from Patent Office. Opposition No. 28,870.

REVERSED.

*Chauncey P. Carter* for appellant.

*Horace Dawson* for appellee.

O'CONNELL, *J.*:

This is an appeal from the decision of the Commissioner of Patents affirming that of the Examiner of Trade-Mark Interferences dismissing the opposition filed by appellant against the registration on the Principal Register by appellee of the name "Sheffield" as a trade-mark for stoves and ranges, 90 USPQ 380; on reconsideration, 91 USPQ 247.

Appellant is the authorized agent of the British Government and lawful guardian of the right to the exclusive use of the name "Sheffield" by the manufactures of metal goods located in Sheffield, England. Appellee is an Illinois corporation located in the city of Chicago, and its right to register the mark was sustained by the Patent Office for the stated reason that the name "Sheffield" had become distinctive in commerce of appellee's stoves and ranges under section 2(f) of the Lanham Trade-Mark Act of 1946, 15 U. S. C. § 1052.

The act has been described by the Supreme Court as a complex and controversial act which confers broad jurisdictional powers upon the courts, which powers extend beyond the boundaries of the United States and govern the conduct of its citizens and residents not only at home but also upon the high seas or even in foreign countries when the rights of other nations or their nationals are not involved. *Steele* v. *Bulova Watch Co.*, 344 U. S. 280, 283–284. There Justice Clark in delivering the opinion of the Court observed:

• • • The statute's expressed intent is "to regulate commerce within the control of Congress by making actionable the deceptive and misleading use of marks in such commerce; to protect registered marks used in such commerce from interference by State, or Territorial legislation; to protect persons engaged in such commerce against unfair competition; to prevent fraud and deception in such commerce by the use of reproductions, copies, counterfeits, or colorable imitations of registered marks; *and to provide rights and remedies stipulated by treaties and conventions respecting trade-marks, trade names, and unfair competition entered into between the United States and foreign nations.*" § 45, 15 U. S. C. § 1127. [Italics supplied.]



The provisions of section 2 of the act, so far as pertinent, read as follows:

Sec. 2. No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the principal register on account of its nature unless it—

(a) Consists of or comprises • • • deceptive • • • matter; or matter which may • • • falsely suggest a connection with persons, living or dead, • • •.

• • • • • • • •

(d) Consists of or comprises a mark which so resembles a mark registered in the Patent Office or a mark or trade name previously used in the United States by another and not abandoned, as to be likely, when applied to the goods of the applicant, to cause confusion or mistake or to deceive purchasers: • • •.

(e) Consists of a mark which, • • • when applied to the goods of the applicant *is primarily geographically descriptive or deceptively misdescriptive of them* • • •.

(f) Except as expressly excluded in paragraphs (a) • • • and (d) of this section, nothing herein shall prevent the registration of a mark used by the applicant which has become distinctive of the applicant's goods in commerce. The Commissioner may accept as prima facie evidence that the mark has become distinctive, as applied to the applicant's goods in commerce, *proof of substantially exclusive and continuous use thereof as a mark by the applicant in commerce for the five years next preceding the date of the filing of the application for its registration.* [Italics supplied.]

Appellant's verified Notice of Opposition declares, among other things, that appellant was incorporated by an act of the English Parliament passed in 1624; that it is the proprietor of the unabandoned mark "Sheffield" registered on August 8, 1939, in the United States Patent Office for use on certain goods manufactured in Sheffield, England, composed wholly or in part of metal, and including such items as table and kitchen knives, table forks, and choppers, all of which are used in every kitchen with stoves and ranges; that opposer is likewise the proprietor of the registered mark "Sheffield" dated July 20, 1920, and still in force and effect in the United Kingdom of Great Britain and North Ireland for stoves and ranges manufactured in Sheffield, England, and sold throughout the world; and that the products of appellant hereinbefore described have been famous for more than 100 years throughout the civilized world, including the United States, as indicative of metal wares of the highest quality.

Rand McNally World Atlas, Readers Edition, 1943, discloses that Sheffield is located at the center of the metal-working and cutlery industry of Great Britain in and near the iron ore and coal districts of England.

The Columbia Encyclopedia, Columbia University Press, Second Edition 1950, page 1807, contains the following pertinent reference:

*Sheffield*, county borough (1931 pop. 511,757; 1947 estimated pop. 514,290) and city, West Riding of Yorkshire, England, on the Don and E of Manchester. It is one of the leading industrial centers of England, having been the chief seat of cutlery manufacture since the 14th century. The Cutlers' Company, the governing body of cutlery manufacturers, was founded here in 1624. • • •

The Encyclopedia Britannica, Volume 20, 1942 Edition, page 479, offers the following pertinent comments:

*Manufactures.* Sheffield owes its prosperity to the manufacture of steel. In the valleys of the Don and its tributaries iron smelting from local ore by means of wood was carried on, probably by the Romans at Temleborough, and certainly at the time of the Norman Conquest. • • • The town had become famed for its cutlery by the 14th century and was a strong rival of London; • • •. The Cutlers' Company was formed in 1624. • • • In early times, cutlery was made of blister or bar steel, later shear steel was used, but in 1740, Benjamin Huntsman introduced the manufacture of cast steel and upon this achievement many subsequent steel making discoveries have been based. It was with the aid of Sheffield capital that Henry Bessemer founded his pioneer works to develop the manufacture of his invention, and so revolutionized the industry by cheapening its production. Large quantities of Bessemer steel are still made in Sheffield. • • •

The trade in heavy steel has kept place with that in other branches and armour plates, large castings for engines and ocean liners, hydraulic presses, rails, tyres, axles, *stoves and grates*, steel shot and steel for rifles are produced. • • • The cutlery trade embraces almost every variety of instrument and tool—spring and table knives, razors, scissors, surgical and mathematical instruments, edge tools, saws, engineering and agricultural tools, etc. • • • [Italics supplied.]

Appellant also asserted reliance upon the provision for the repression of unfair competition on the part of appellee under section 44(h) of the act, as well as the protective benefits provided for by the treaty with the United Kingdom of Great Britain based upon the Convention for the Protection of Industrial Property of the Union of Paris of March 20, 1883, revised at Brussels, Washington, The Hague, and finally enacted in permanent form at London June 2, 1934. The pertinent paragraphs of section 44, Title IX, "International Conventions," are itemized in Robert's The New Trade-Mark Manual, pages 259–260, as follows:

(b) Persons who are nationals of, domiciled in, or have a bona fide and effective business or commercial establishment in any foreign country, which is a party to (1) the International Convention for the Protection of Industrial Property, signed at Paris on March 20, 1883; or (2) the General Inter-American Convention for Trade-Mark and Commercial Protection signed at Washington on February 20, 1929; or (3) any other convention or treaty relating to trade-marks, trade or commercial names, or the repression of unfair competition to which the United States is a party, shall be entitled to the benefits and subject to the provisions of this act to the extent and under the conditions essential to give effect to any such conventions and treaties so long as the United States shall continue to be a party thereto, except as provided in the following paragraphs of this section.

• • • • • • • •

(g) Trade names or commercial names of persons described in paragraph (b) of this section shall be protected without the obligation of filing or registration whether or not they form parts of marks.

(h) Any person designated in paragraph (b) of this section as entitled to the benefits and subject to the provisions of this act shall be entitled to effective protection against unfair competition, and the remedies provided herein for infringement of marks shall be available so far as they may be appropriate in repressing acts of unfair competition.

(i) Citizens or residents of the United States shall have the same benefits as are granted by this section to persons described in paragraph (b) hereof.

[1] It may be noted also that at common law the rights of owners of trade-marks have been repeatedly recognized regardless of registration. *Shercood Company, Inc.*, v. *Shercood Distilling Company*, 44 USPQ 177, 179.

The tribunals of the Patent Office apparently overlooked the ratification of 1934 of the International Convention and the Commissioner's notice to the effect that prior to July 1, 1938, the Governments of the United Kingdom, Great Britain and North Ireland, in addition to that of the United States, had deposited their ratifications of the International Convention for the Protection of Industrial Property signed at London June 2, 1934, and that the Convention would come into force on August 1, 1938, with respect to these countries. 494 O. G. 1.

The tribunals of the Patent Office in rendering their decisions likewise made no reference to the

commercial protection to which appellant was entitled under our binding treaty with Great Britain and the fact that the treaty should be construed liberally to give effect to its purpose. That treaty is part of our law and no special legislation in the United States was necessary to make it effective here. *Bacardi Corp.* v. *Domenech*, 311 U. S. 150. However, terms of the treaty applicable to the situation in the case at bar were embodied in the provisions and subdivisions of section 44 of the act of 1946. *In re Lyndale Farm*, 38 CCPA (Patents) 825, 829, 186 F.2d 723, 88 USPQ 377.

[2] A geographical name which for a long period, say for several hundred years, has referred exclusively to a product made at the place, and not to the place itself, may properly be registered as a trade-mark. *Baglin* v. *Cusenier Co.*, 221 U. S. 580, 591. There Chief Justice Hughes stated the rule applicable to the geographic name "Chartreuse" as a trade-mark for wines and cordials:

> • • • It is undoubtedly true that names which are merely geographical cannot be the subject of exclusive appropriation as trade-marks. "Their nature is such that they cannot point to the origin (personal origin) or ownership of the articles of trade to which they may be applied. They point only at the place of production, not to the producer, and could they be appropriated exclusively, the appropriation would result in mischievous monopolies." *Canal Company* v. *Clark*, 13 Wall. p. 324. See also *Columbia Mill Company* v. *Alcorn*, 150 U. S. 460; *Elgin National Watch Company* v. *Illinois Watch Company*, 179 U. S. 665.
>
> This familiar principle, however, is not applicable here. • • • If it be assumed that the Monks took their name from the region in France in which they settled in the Eleventh Century, it still remains true that it became peculiarly their designation. And the word "Chartreuse" as applied to the liqueur which for generations they made and sold cannot be regarded in a proper sense as a geographical name. • • •

The Chartreuse case was decided under the act of 1905 and before the advent of the broadened protective provisions of the Lanham Act. That act, however, and its "sweeping reach into 'all commerce which may be regulated by Congress' does not constrict prior law or deprive courts of jurisdiction previously exercised." *Steele* v. *Bulova Watch Co.*, 344 U. S. 280, 287.

[3] The proper construction of section 2(f) of the act of 1946 was exemplified by Federico, Examiner-in-Chief of Trade-Marks, acting for the Commissioner of Patents, in *Ex parte Pocket Books, Inc.*, 91 USPQ 182, 184–185. There the Acting Commissioner held the burden of proof rests upon the applicant to establish that the mark of the applicant has become distinctive in commerce, and distinctiveness as a trade-mark should not be recognized without completely overwhelming proof with respect to all aspects of the matter:

> It seems to me that before it can be stated that a word which is a generic designation of an article can be considered as having acquired the status of a trade-mark of a single company for that same article, more should be shown than use by the applicant and the harmonious attitude of the trade. *It would appear that before the word could be considered a trade-mark, it must have become practically obsolete as a generic name for the article and must be recognized by the public as a trade-mark rather than as a generic term of the English language.* [Italics supplied.]

The factual situation upon which the applicant relies in the case at bar is strikingly similar to the situation in *Ex parte Pocket Books, Inc.* [4] The mere affidavit of appellee's secretary together with the testimony of several witnesses clearly does not constitute a sufficient basis for appellee's registration of the mark "Sheffield" for use on stoves and ranges in this and foreign countries.

[5] The certificate of the British Patent Office that the trade-mark "Sheffield" was registered in Great Britain for stoves and ranges was an official document which should have been considered by the administrative officials of the Patent Office as presumptive evidence that the mark was still in force and effect there for stoves and ranges. *Rosengart, etc.* v. *Ostrex Co., Inc.*, 30 CCPA (Patents) 1046, 136 F.2d 249, 57 USPQ 243; *Ely & Walker Dry Goods Co.* v. *Sears, Roebuck & Co.*, 24 CCPA (Patents) 1244, 90 F.2d 257, 33 USPQ 549; *Hess* v. *Helene Curtis Industries, Inc.*, 94 USPQ 11.

[6] If we assume, merely for the purpose of argument, that tableware and kitchen cutlery do not constitute goods of the same descriptive properties with stoves and ranges, it must be remarked that refusal of registration may be required under the act of 1946 where there is likelihood of confusion, even though technically the goods may fall into different categories. *The Pep Boys* v. *The Edwin F. Guth Co.*, 39 CCPA (Patents) 1015, 1017, 197 F.2d 527, 94 USPQ 158; *The Alligator Co.* v. *Larus & Bro. Co., Inc.*, 39 CCPA (Patents) 939, 196 F.2d 532, 93 USPQ 436.

[7] It is impossible to escape the conclusion that appellee should be refused registration of its mark "Sheffield" on the ground, among other things, that basically it consists of matter which falsely suggests a connection with the renowned manufacturing industry of steel located at Sheffield, England.

For the reasons hereinbefore stated, the decision of the Commissioner of Patents is reversed.

REVERSED.

JOHNSON, J., concurs in conclusion.

# PATENT SUITS

**Notices under 35 U. S. C. 290; Patent Act of 1952**

1,912,410, W. Shotey, Device for dressing grinding wheels, D. C., E. D. Mich. (Detroit), Doc. 10032, *W. Shotey* v. *Michigan Broach Co.* Stipulation and order of dismissal with prejudice May 7, 1953.

2,105,602, 2,386,615, K. C. Knapp, Pipe-line reclaimer, D. C., N. D. Okla. (Tulsa), Doc. 3200, *K. C. Knapp et al.* v. *H. S. Brown et al.* Judgment holding patents valid; infringed by H S. Brown and A. C. Holder.



2,229,643, W. L. De Baufre, Method and apparatus for controlling temperature of superheated steam, filed May 14, 1953, D. C. N. J. (Newark), Doc. 423/53, *Combustion Engineering, Inc.* v. *The Babcock & Wilcox Co.*

2,243,043, H. W. Walter, Walking doll (Declaratory Judgment), D. C., S. D. N. Y., Doc. 66/320, *The Advance Doll & Toy Corp.* v. *Noma Electric Corp. et al.* Stipulation and order of dismissal May 7, 1953.

2,268,738, J. C. Chenette, Strap buckle; 2,277,302, same, Portable hand truck, filed May 13, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15235, *The American Pulley Co.* v. *Lewis-Rose Co.*

2,277,302. (See 2,268,738.)

2,336,703, P. F. Skogg, Method of patching veneer sheets; 2,336,704, same, Means for patching veneer sheets, D. C. Oreg. (Portland), Doc. 6579, *E. V. Prentice Co.* v. *Associated Plywood Mills, Inc.* Patents held invalid May 8, 1953.

2,336,704. (See 2,336,704.) 2,386,615. (See 2,105,605.)

2,498,859. (See 2,587,470.)

2,502,632, B. Platt, Soft-sided band luggage having shape-retaining end walls, filed May 8, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1169, *Platt Luggage, Inc.* v. *Supreme Leather Goods Co.*

2,562,627, J. G. McKay, Adjustable inking device, 2,595,279, same, Printing mechanism synchronizer; 2,634,676, same, Device for printing characters on moving packages, supplemental complaint filed Apr. 24, 1953, D. C., N. D. Ill. (Chicago), Doc. 51c1337, *Kiwi Coders Corp. et al.* v. *Acro Tool & Die Works et al.*

2,565,956, W. J. Duhamel, Fish baiter, filed Apr. 9, 1953, D. C., N. D. Calif. (San Francisco), Doc. 32697, *Charles Duhamel & Son* v. *Charles Barrot.*

2,566,384. (See 2,587,470.) 2,573,664. (See 2,587,470.)

2,583,387. (See 2,587,470.)

2,587,470, F. Herzegh, Pneumatic tire; 2,566,384, J. M. Tilton, Jr., Self-sealing article; 2,583,387, Morrissey & Crawford, Rubbery adhesive composition and method of making and using same; 2,573,664, T. Herzegh, Pneumatic tire package; 2,498,859, E. T. Lessig, Tire; 2,592,844, J. O. Antonson, Tire construction, filed May 11, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30251, *The B. F. Goodrich Co.* v. *The Firestone Tire & Rubber Co.*

2,592,844. (See 2,587,470.) 2,595,279. (See 2,562,627.)

2,624,092, C. Duerr, End clasp for a bracelet, filed May 11, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13497, *Jacoby-Bender, Inc.* v. *Glen Jewelry Co., Inc.*

2,634,676. (See 2,562,627.)

# TRADE-MARK SUITS

**Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946**

T. M. 139,710, Colgate & Co., Soap; T. M. 167,542, T. M. 522,356, T. M. 552,459, Colgate-Palmolive-Peet Co., Sudsing cleaner, cleanser and detergent and for soaps, filed May 7, 1953, D. C. N. J. (Newark), Doc. 411/53, *Colgate-Palmolive-Peet Co.* v. *L. Cook et al.*

T. M. 167,542. (See T. M. 139,710.)

T. M. 435,241, T. M. 514,827, Nannette Mfg. Co., Inc., Children's and infants' dresses, D. C., S. D. Calif. (Los Angeles), Doc. 14763–C, *Nannette Mfg. Co., Inc.* v. *L. Gitleman.* Consent judgment for injunction restraining defendants June 15, 1953.

T. M. 511,106, Uncas Mfg. Co., Jewelry, not including watches, filed May 12, 1953, D. C., S. D. N. Y., Doc. 85/46, *Uncas Mfg. Co.* v. *Leo Glass & Co., Inc.*

T. M. 514,827. (See T. M. 435,241.)

T. M. 522,356. (See T. M. 139,710.)

T. M. 552,459. (See T. M. 139,710.)

# NOTICES

## New Rules of United States Court of Customs and Patent Appeals

The United States Court of Customs and Patent Appeals has promulgated a new set of rules, effective July 1, 1953. Copies may be obtained from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

The principal changes consist in the amendment of Rule 5 to change certain fees and to eliminate the charge of 25 cents per page for supervising the printing of records, the amendment of Rule 13 to eliminate the requirement for printing documentary exhibits, the amendment of Rules 26 and 27 to eliminate the provisions that a vacation period of the Court shall extend the time for payment of the cost of printing the record and for filing briefs, and the amendment of Rule 27 to require the filing of 18 copies of printed briefs instead of 15.

## Adjudicated Patents

(C. A. Pa.) Tautz Patent No. 2,069,395, for a safety shield. Claim 6 *Held* invalid. *The Stanley Works* v. *Rockwell Manufacturing Company*, 203 F.2d 846; 97 USPQ 189.

(C. A. Ill.) Posen Reissue Patent No. 23,203, for a wearable electronic hearing aid having the amplifier and the batteries contained in a common casing. Claims 1, 5, 7, 9, and 10 *Held* invalid. *Beltone Hearing Aid Company* v. *American Sound Products, Inc.*, 203 F.2d 782; 97 USPQ 284.

## Cancellation Notice

[No. 6097]

*Cadillac Wine Distributing Company, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Milan Wineries, 4109 Joe Street, Detroit 10, Michigan, to effect the cancellation of trade-mark registration of Cadillac Wine Distributing Company, 8900 Hubbell Avenue, Detroit, Michigan, No. 314,228, dated September 15, 1933, and the notice of such proceeding sent by registered mail to the said Cadillac Wine Distributing Company, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Cadillac Wine Distributing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks. (Date of first publication—July 21.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

June 29, 1953.

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. 1, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

American Telephone and Telegraph Company has placed 270 patents on the Register as available for licensing on reasonable terms, in addition to the more than 10,000 patents previously registered and listed. A statement of the company's policy in licensing its patents was published in the *Register* section of the OFFICIAL GAZETTE, Feb. 15, 1949.

Inquiries concerning licenses should be addressed to: Patent Licensing Division, Western Electric Company, Inc., 195 Broadway, New York 7, N. Y., acting as agent for the American Telephone and Telegraph Company.

The present listing includes Reg. Nos. 51,006 through 51,178. The remaining patents will be listed in the OFFICIAL GAZETTE of July 28, 1953.

The majority of the patents relate to communications and allied fields. Included are patents relating to: Radio, radar, television, telephone, and telegraph equipment; apparatus for exploring the atmosphere; light-controlled channel deviation indicator for navigation purposes; transistors and transistor devices; magnetic recording and reproducing apparatus; the manufacture of cables, conductors, coils, and crystals; plastic extrusion apparatus; a retractile extension cord; device for forming a glass coating on thermistor beads; machines for removing threaded dies from molded parts, and for polishing brittle highly pure crystalline silicon surfaces; apparatus for equipping crystals with wires; electrical measuring and testing devices; gauges; a camera for photographing groups of recording meters; material-handling and -assembling apparatus; a lid support for a cabinet for automatically latching the lid in open position; and a door for enclosing the front of a switchboard frame.

Other patents relate to: A tape dispenser; an expandible fastener insert; an automatic fire extinguisher for containers in which magnesium chips are stored; a clamp of the flexible encircling band type for hose or other cylindrical objects; a tool for threading loose uneven strands of a cable through an aperture; wire-cutting pliers; torque-measuring-precision tool for nuts, bolts, and screws; screwdriver having means for picking up and holding extremely small screws, and for centering and guiding the screws into tapped holes; pneumatic tool for cleaning switch banks; hand cutter for severing paper, cloth, and similar material by a mere forward sliding motion of the cutter; machine for cutting a cellulose acetate tube into predetermined variable lengths to form insulating bushings; apparatus for slitting thick strips of tough resilient rubbery material into ribbons; ball bearing utilizing balls of less than 1 millimeter in diameter formed of hard, lustrous, coherent carbon; temperature control for an electric soldering iron; and a hand truck for transporting and depositing large heavy articles.

Groups 28—83; 33—41—51—52—59; 35—42—43—59—62—63—65—66—69—71; 36—11—12—13—10—21—31—61—62—92; 30—11—12—13—99.

Pat. 2,590,885. Spared-Pulse Impulse Sender. Apr. 1, 1952. Reg. No. 51,006.

Pat. 2,590,945. Trunk Circuit. Apr. 1, 1952. Reg. No. 51,007.

Pat. 2,590,996. Relay. Apr. 1, 1952. Reg. No. 51,008.

Pat. 2,591,032. Methods for Growing Ethylenediamine Tartrate Crystals. Apr. 1, 1952. Reg. No. 51,009.

Pat. 2,591,045. Sound Recording System. Apr. 1, 1952. Reg. No. 51,010.

Pat. 2,591,505. Die Mechanism for Wire Coating Apparatus. Apr. 1, 1952. Reg. No. 51,011.

Pat. 2,591,508. Extrusion Apparatus. Apr. 1, 1952. Reg. No. 51,012.

Pat. 2,591,550. Strand Handling Tool. Apr. 1, 1952. Reg. No. 51,013.

Pat. 2,591,557. Apparatus for Dipping Articles in Liquid. Apr. 1, 1952. Reg. No. 51,014.

Pat. 2,591,575. Expandible Fastener Insert. Apr. 1, 1952. Reg. No. 51,015.

Pat. 2,591,579. Permanent-Signal Indicating System. Apr. 1, 1952. Reg. No. 51,016.

Pat. 2,591,580. Special Trunk Circuits for Transmitting Tones to Calling Subscribers. Apr. 1, 1952. Reg. No. 51,017.

Pat. 2,591,842. Electron Discharge Apparatus. Apr. 8, 1952. Reg. No. 51,018.

Pat. 2,591,856. Pulse Echo Distance Indicator. Apr. 8, 1952. Reg. No. 51,019.

Pat. 2,592,228. Decoder for Pulse Code Modulation Receivers. Apr. 8, 1952. Reg. No. 51,020.

Pat. 2,592,245. Method and Apparatus for Mixing Materials. Apr. 8, 1952. Reg. No. 51,021.

Pat. 2,592,276. Article Assembling Apparatus. Apr. 8, 1952. Reg. No. 51,022.

Pat. 2,592,308. Non-Linear Pulse Code Modulation System. Apr. 8, 1952. Reg. No. 51,023.

Pat. 2,592,316. Gauge for Measuring Curved Surfaces. Apr. 8, 1952. Reg. No. 51,024.

Pat. 2,592,549. Anode Structure for Electron Discharge Devices. Apr. 15, 1952. Reg. No. 51,025.

Pat. 2,592,615. Current Supply Apparatus. Apr. 15, 1952. Reg. No. 51,026.

Pat. 2,592,652. Magnetic Transducer Head. Apr. 15, 1952. Reg. No. 51,027.

Pat. 2,592,683. Storage Device Utilizing Semiconductor. Apr. 15, 1952. Reg. No. 51,028.

Pat. 2,592,716. Self-Correcting Amplifier. Apr. 15, 1952. Reg. No. 51,029.

Pat. 2,592,721. Filter Using Magnetostrictive Rings. Apr. 15, 1952. Reg. No. 51,030.

Pat. 2,592,729. Method of Etching Ethylene Diamine Tartrate Crystals. Apr. 15, 1952. Reg. No. 51,031.

Pat. 2,593,095. Cavity Resonator Mode Suppression Means. Apr. 15, 1952. Reg. No. 51,032.

Pat. 2,593,109. Cold Cathode Gaseous Discharge Device. Apr. 15, 1952. Reg. No. 51,033.

Pat. 2,593,113. Regenerative Frequency Shifting and Pulse Shaping Circuit. Apr. 15, 1952. Reg. No. 51,034.

Pat. 2,593,136. Apparatus for Extruding and Straining Compounds. Apr. 15, 1952. Reg. No. 51,035.

Pat. 2,593,155. Cavity Resonator. Apr. 15, 1952. Reg. No. 51,036.

Pat. 2,593,198. Backing Plate for Strainers. Apr. 15, 1952. Reg. No. 51,037.

Pat. 2,593,234. Cavity Resonator. Apr. 15, 1952. Reg. No. 51,038.

Pat. 2,593,269. Test Fixture for Vacuum Tube Sockets. Apr. 15, 1952. Reg. No. 51,039.

Pat. 2,593,286. Punching and Applying Apparatus. Apr. 15, 1952. Reg. No. 51,040.

Pat. 2,593,312. Lid Support. Apr. 15, 1952. Reg. No. 51,041.

Pat. 2,593,330. Variable-Frequency Relaxation Oscillator. Apr. 15, 1952. Reg. No. 51,042.





Pat. 2,593,343. Conveying Dividing and Piling Sheet Material. Apr. 15, 1952. Reg. No. 51,043.

Pat. 2,593,463. Frequency Stabilized Microwave Oscillator. Apr. 22, 1952. Reg. No. 51,044.

Pat. 2,593,694. Wave Analyzer for Determining Fundamental Frequency of a Complex Wave. Apr. 22, 1952. Reg. No. 51,045.

Pat. 2,593,695. Analyzer for Determining the Fundamental Frequency of a Complex Wave. Apr. 22, 1952. Reg. No. 51,046.

Pat. 2,593,698. Determining Pitch Frequency in a Complex Wave. Apr. 22, 1952. Reg. No. 51,047.

Pat. 2,594,014. Cross Bar Tandem Office for Step-by-Step Telephone Areas. Apr. 22, 1952. Reg. No. 51,048.

Pat. 2,594,019. Current Supply Apparatus. Apr. 22, 1952. Reg. No. 51,049.

Pat. 2,594,078. Electronic Marker for Cathode-Ray Indicator Tubes. Apr. 22, 1952. Reg. No. 51,050.

Pat. 2,594,087. Radio Receiver Selection System. Apr. 22, 1952. Reg. No. 51,051.

Pat. 2,594,300. Spaced-Pulse Type Impulse Sender. Apr. 29, 1952. Reg. No. 51,052.

Pat. 2,594,325. Spaced Pulse Impulse Sender. Apr. 29, 1952. Reg. No. 51,053.

Pat. 2,594,336. Electrical Counter Circuit. Apr. 29, 1952. Reg. No. 51,054.

Pat. 2,594,389. Double-Lockout Interconnecting System. Apr. 29, 1952. Reg. No. 51,055.

Pat. 2,594,409. Directive Antenna. Apr. 29, 1952. Reg. No. 51,056.

Pat. 2,594,427. Method and Apparatus for Uniformly Tensioning an Advancing Strand. Apr. 29, 1952. Reg. No. 51,057.

Pat. 2,594,449. Transistor Switching Device. Apr. 29, 1952. Reg. No. 51,058.

Pat. 2,594,495. Magnetic Recording System for Call Data in Automatic Telephony. Apr. 29, 1952. Reg. No. 51,059.

Pat. 2,594,505. Calling Line Identification and Registering System. Apr. 29, 1952. Reg. No. 51,060.

Pat. 2,594,530. Amplifying System. Apr. 29, 1952. Reg. No. 51,061.

Pat. 2,594,890. Contact Protection Arrangement. Apr. 29, 1952. Reg. No. 51,062.

Pat. 2,594,897. Cathode Structure for Electron Discharge Tubes. Apr. 29, 1952. Reg. No. 51,063.

Pat. 2,594,923. Call Data Recording Telephone System. Apr. 29, 1952. Reg. No. 51,064.

Pat. 2,594,949. Preset Type Impulse-Sender. Apr. 29, 1952. Reg. No. 51,065.

Pat. 2,594,993. Telegraph Hub Electronic Loop Repeater Circuit. Apr. 29, 1952. Reg. No. 51,066.

Pat. 2,595,060. Pressure-Sensitive Tape Dispensing Machine. Apr. 29, 1952. Reg. No. 51,067.

Pat. 2,595,106. Recording Telephone System. Apr. 29, 1952. Reg. No. 51,068.

Pat. 2,595,138. Strand Serving Apparatus. Apr. 29, 1952. Reg. No. 51,069.

Pat. 2,595,145. Wire Cutter. Apr. 29, 1952. Reg. No. 51,070.

Pat. 2,595,163. Electronic Voltmeter Test Circuit for Measuring High-Resistance Leaks. Apr. 29, 1952. Reg. No. 51,071.

Pat. 2,595,208. Transistor Pulse Divider. Apr. 29, 1952. Reg. No. 51,072.

Pat. 2,595,232. Telephone Switching System Employing a Transistor. May 6, 1952. Reg. No. 51,073.

Pat. 2,595,646. Television Test Signal Generator. May 6, 1952. Reg. No. 51,074.

Pat. 2,595,652. Coupled Cavity Resonator. May 6, 1952. Reg. No. 51,075.

Pat. 2,595,656. Electronic Synchronization System. May 6, 1952. Reg. No. 51,076.

Pat. 2,595,662. Automatic Volume Control for Oscillators. May 6, 1952. Reg. No. 51,077.

Pat. 2,595,667. Sweep Circuit. May 6, 1952. Reg. No. 51,078.

Pat. 2,595,670. Reflecting Surface Bonded to a Film. May 6, 1952. Reg. No. 51,079.

Pat. 2,595,680. Constant Resistance Pseudo-Hybrid Channel Branching Microwave Filters. May 6, 1952. Reg. No. 51,080.

Pat. 2,595,691. Signal Responsive Circuit. May 6, 1952. Reg. No. 51,081.

Pat. 2,595,701. Recording System. May 6, 1952. Reg. No. 51,082.

Pat. 2,595,714. Electronic Multiplex to Start-Stop Extensor. May 6, 1952. Reg. No. 51,083.

Pat. 2,595,745. Printing Telegraph Selector. May 6, 1952. Reg. No. 51,084.

Pat. 2,595,944. Reverting Call Circuits. May 6, 1952. Reg. No. 51,085.

Pat. 2,596,199. Error Correction in Sequential Code Pulse Transmission. May 13, 1952. Reg. No. 51,086.

Pat. 2,596,237. Mounting for Circuit Elements. May 13, 1952. Reg. No. 51,087.

Pat. 2,596,251. Wave Guide Lens System. May 13, 1952. Reg. No. 51,088.

Pat. 2,596,288. High-Frequency Phase Measuring System. May 13, 1952. Reg. No. 51,089.

Pat. 2,596,584. Pulse Conversion System. May 13, 1952. Reg. No. 51,090.

Pat. 2,596,617. Increasing Number of Holes in Apertured Metal Screens. May 13, 1952. Reg. No. 51,091.

Pat. 2,597,028. Semiconductor Signal Translating Device. May 20, 1952. Reg. No. 51,092.

Pat. 2,597,071. Signal Monitoring. May 20, 1952. Reg. No. 51,093.

Pat. 2,597,428. Checking Means for Pulse Counting Circuit. May 20, 1952. Reg. No. 51,094.

Pat. 2,597,570. Variable Impulse Transmitter. May 20, 1952. Reg. No. 51,095.

Pat. 2,597,589. Electro-Optical Device. May 20, 1952. Reg. No. 51,096.

Pat. 2,597,613. Apparatus for Coating Beads. May 20, 1952. Reg. No. 51,097.

Pat. 2,597,898. Automatic Impulse Sender. May 27, 1952. Reg. No. 51,098.

Pat. 2,598,221. Power Amplifier Circuit. May 27, 1952. Reg. No. 51,099.

Pat. 2,598,273. Automatic Fire Extinguisher. May 27, 1952. Reg. No. 51,100.

Pat. 2,598,317. Preparation of Two-Sided Mosaic Screens. May 27, 1952. Reg. No. 51,101.

Pat. 2,598,318. Method of Thickening Relatively Thin Apertured Metallic Screens. May 27, 1952. Reg. No. 51,102.

Pat. 2,598,485. Apparatus for Feeding and Distributing Electrical Cordage. May 27, 1952. Reg. No. 51,103.

Pat. 2,598,537. Apparatus for Continuously Coiling Elongated Filaments. May 27, 1952. Reg. No. 51,104.

Pat. 2,598,677. Multicathode Glow Discharge Device. June 3, 1952. Reg. No. 51,105.

Pat. 2,598,695. Impulse Sender With Relay Distributor. June 3, 1952. Reg. No. 51,106.

Pat. 2,598,707. Electrical Device Embodying Ferroelectric Substance. June 3, 1952. Reg. No. 51,107.

Pat. 2,599,097. Radiotelephone Station Identifying System. June 3, 1952. Reg. No. 51,108.

Pat. 2,599,357. Automatic Telephone Billing System. June 3, 1952. Reg. No. 51,109.

Pat. 2,599,358. Call Data Recording Automatic Telephone System. June 3, 1952. Reg. No. 51,110.

Pat. 2,599,368. Beam Switching System. June 3, 1952. Reg. No. 51,111.

Pat. 2,599,392. Recording Device. June 3, 1952. Reg. No. 51,112.

Pat. 2,599,409. Sender Test Circuit. June 3, 1952. Reg. No. 51,113.

Pat. 2,599,746. Endless Conveyor for Supporting Conductors or Cables in Vulcanizing Tubes. June 10, 1952. Reg. No. 51,114.

Pat. 2,599,753. Wave Guide Phase Shifter. June 10, 1952. Reg. No. 51,115.

Pat. 2,599,763. Directive Antenna System. June 10, 1952. Reg. No. 51,116.

Pat. 2,599,764. Machine for Removing Threaded Dies From Molded Parts. June 10, 1952. Reg. No. 51,117.

Pat. 2,599,766. Measuring and Counting Time Intervals. June 10, 1952. Reg. No. 51,118.

Pat. 2,599,988. Automatic Telegraph Switching. June 10, 1952. Reg. No. 51,119.

Pat. 2,600,407. Protective Device. June 17, 1952. Reg. No. 51,120.

Pat. 2,600,466. Wave Guide Attenuator. June 17, 1952. Reg. No. 51,121.

Pat. 2,600,482. Electric Delay Circuit. June 17, 1952. Reg. No. 51,122.

Pat. 2,600,500. Semiconductor Signal Translating Device With Controlled Carrier Transit Times. June 17, 1952. Reg. No. 51,123.

Pat. 2,600,502. Calling Line and Private Branch Exchange Line Identifier. June 17, 1952. Reg. No. 51,124.

Pat. 2,600,513. Testing Pedestal for Radar Antenna. June 17, 1952. Reg. No. 51,125.

Pat. 2,600,560. Static Frequency Changer. June 17, 1952. Reg. No. 51,126.

Pat. 2,600,561. Pulse Modulation System. June 17, 1952. Reg. No. 51,127.

Pat. 2,600,574. Apparatus for Handling Strips of Plastic Material. June 17, 1952. Reg. No. 51,128.

Pat. 2,601,373. Method of Making Silicon Carbide Circuit Elements. June 24, 1952. Reg. No. 51,129.

Pat. 2,601,403. Electric Circuit. June 24, 1952. Reg. No. 51,130.

Pat. 2,601,415. Vertical Sweep Synchronizing Circuit. June 24, 1952. Reg. No. 51,131.

Pat. 2,601,444. Stabilized Multivibrator Oscillator. June 24, 1952. Reg. No. 51,132.

Pat. 2,601,699. Apparatus for Continuously Making Vulcanized Articles. July 1, 1952. Reg. No. 51,133.

Pat. 2,602,033. Carbonyl Process. July 1, 1952. Reg. No. 51,134.

Pat. 2,602,148. High-Frequency Amplifier. July 1, 1952. Reg. No. 51,135.

Pat. 2,602,151. Triangular Wave Generator. July 1, 1952. Reg. No. 51,136.

Pat. 2,602,158. Coder for Pulse Code Modulation. July 1, 1952. Reg. No. 51,137.

Pat. 2,602,180. Pneumatic Tool for Cleaning Switch Banks. July 8, 1952. Reg. No. 51,138.

Pat. 2,602,211. Rectifier and Method of Making It. July 8, 1952. Reg. No. 51,139.

Pat. 2,602,281. Strand Serving Apparatus. July 8, 1952. Reg. No. 51,140.

Pat. 2,602,282. Brake for Strand-Serving Apparatus. July 8, 1952. Reg. No. 51,141.

Pat. 2,602,327. Transducing System. July 8, 1952. Reg. No. 51,142.

Pat. 2,602,381. Liquid Removing Pressure Roller. July 8, 1952. Reg. No. 51,143.

Pat. 2,602,763. Semi-Conductive Materials for Translating Devices. July 8, 1952. Reg. No. 51,144.

Pat. 2,602,853. Selective Signaling System. July 8, 1952. Reg. No. 51,145.

Pat. 2,602,857. Wave Guide Attenuator. July 8, 1952. Reg. No. 51,146.

Pat. 2,602,858. Wave Guide Dielectric Protection. July 8, 1952. Reg. No. 51,147.

Pat. 2,602,861. Wide Range Sound Film Reproducing System. July 8, 1952. Reg. No. 51,148.

Pat. 2,602,872. Apparatus for Equipping Crystals With Wires. July 8, 1952. Reg. No. 51,149.

Pat. 2,602,890. Sweep Circuit. July 8, 1952. Reg. No. 51,150.

Pat. 2,602,907. Filament Mounting for High Power Electron Discharge Devices. July 8, 1952. Reg. No. 51,151.

Pat. 2,602,918. Multiplex Modulator. July 8, 1952. Reg. No. 51,152.

Pat. 2,602,919. Balanced Parabolic Modulator. July 8, 1952. Reg. No. 51,153.

Pat. 2,602,963. Method of Cementing Carbon Block to Porcelain Blocks. July 15, 1952. Reg. No. 51,154.

Pat. 2,603,291. Material Guide for Shearing Machines. July 15, 1952. Reg. No. 51,155.

Pat. 2,603,683. Electrical Test Equipment. July 15, 1952. Reg. No. 51,156.

Pat. 2,603,686. Electrical Testing Apparatus. July 15, 1952. Reg. No. 51,157.

Pat. 2,603,692. Rectifier and Method of Making It. July 15, 1952. Reg. No. 51,158.

Pat. 2,603,693. Semiconductor Signal Translating Device. July 15, 1952. Reg. No. 51,159.

Pat. 2,603,694. Semiconductor Signal Translating Device. July 15, 1952. Reg. No. 51,160.

Pat. 2,603,709. Rotatable Wave Guide Attenuator. July 15, 1952. Reg. No. 51,161.

Pat. 2,603,710. Rotatable Attenuator for Wave Guides. July 15, 1952. Reg. No. 51,162.

Pat. 2,603,714. Percentage Time Division Multiplex for Pulse Code Modulation. July 15, 1952. Reg. No. 51,163.

Pat. 2,603,715. Pulse Position Call or Dial Receiver. July 15, 1952. Reg. No. 51,164.

Pat. 2,603,716. Decoder and Translator With Readily Changeable Translations. July 15, 1952. Reg. No. 51,165.

Pat. 2,603,718. Impulse-Sender. July 15, 1952. Reg. No. 51,166.

Pat. 2,603,730. Instrument-Type Relay. July 15, 1952. Reg. No. 51,167.

Pat. 2,603,749. Directive Antenna System. July 15, 1952. Reg. No. 51,168.

Pat. 2,603,772. Modulation System. July 15, 1952. Reg. No. 51,169.

Pat. 2,603,773. Modulated Oscillator. July 15, 1952. Reg. No. 51,170.

Pat. 2,604,538. Record Card Controlled Code Converter. July 22, 1952. Reg. No. 51,171.

Pat. 2,604,540. Calling Line Identification for Automatic Ticketing Systems. July 22, 1952. Reg. No. 51,172.

Pat. 2,604,542. Cross-Point Switching Mechanism. July 22, 1952. Reg. No. 51,173.

Pat. 2,604,543. Equalizer Circuit. July 22, 1952. Reg. No. 51,174.

Pat. 2,604,545. Party Line Station Signaling System. July 22, 1952. Reg. No. 51,175.

Pat. 2,604,596. Bombardment Induced Conductivity in Solid Insulators. July 22, 1952. Reg. No. 51,176.

Pat. 2,604,619. Voltage Regulation. July 22, 1952. Reg. No. 51,177.

Pat. 2,604,659. Feeding Apparatus for Plastic Extruders. July 29, 1952. Reg. No. 51,178.

# TRADE-MARKS

## OFFICIAL GAZETTE, JULY 21, 1953

[VOL. 672. No. 3]

## ACT OF 1946

**The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.6.**
**As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.**

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 611,173. Fiberesin Plastics Company, Oconomowoc, Wis. Filed Mar. 12, 1951.

FIBERESIN

For Laminated Plastic Sheets, Panels, Strips, Blocks, Tubes, Rods and Moldings Used for Diverse Purposes.
Claims use since March 1947.

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Ser. No. 619,209. National Chinchilla Breeders of America, Incorporated, Salt Lake City, Utah. Filed Sept. 25, 1951. COLLECTIVE MARK.




Without relinquishing any of the applicant's common law rights, no claim of exclusive use is made to the representation of a head of a chinchilla, apart from the mark as shown. Applicant claims ownership of Registration No. 554,064.
For Live Chinchillas.
Claims use since Aug. 25, 1951.

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Ser. No. 619,831. Charles Horowitz, New York, N. Y. Filed Oct. 10, 1951. (Sec. 2f.)

HARWOOD OAK

For Leather in the Piece.
Claims use since Feb. 8, 1937.

Ser. No. 619,832. Charles Horowitz, New York, N. Y. Filed Oct. 10, 1951. (Sec. 2f.)

PLYMOUTH *Quality* OAK

For Leather in the Piece.
Claims use since Jan. 20, 1935.

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Ser. No. 625,572. Atlantic Sponge & Chamois Corporation, New York, N. Y. Filed Feb. 27, 1952.

CORONET

CHAMOIS

The word "Chamois" is disclaimed apart from the mark as shown.
For Chamois.
Claims use since Aug. 19, 1938.

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Ser. No. 632,814. Great Lakes Carbon Corporation, New York, N. Y. Filed June 17, 1952.

SKILKAST

For Light Weight Siliceous Powdered and Granular Materials—Namely, Expanded Perlite for Use in Foundry Core Formulations.
Claims use since Apr. 3, 1951.

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Ser. No. 632,815. Great Lakes Carbon Corporation, New York, N. Y. Filed June 17, 1952.

SKILKORE

For Light Weight Siliceous Powdered and Granular Materials—Namely, Expanded Perlite for Use in Foundry Molding Formulations and Practices.
Claims use since Apr. 3, 1951.

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Ser. No. 636,887. Geilich Leather Company, Taunton, Mass. Filed Oct. 20, 1952.

Cambi-Grains

Applicant hereby disclaims exclusive use of the word "Grains" apart from the mark as shown on the drawing.
Applicant claims ownership of Registration No. 572,465.
For Leather.
Claims use since June 1950.

Ser. No. 636,888. Gellich Leather Company, Taunton, Mass. Filed Oct. 20, 1952.

**CAMBILENE**

Applicant claims ownership of Registration No. 572,465.
For Leather.
Claims use since June 1950.

Ser. No. 636,889. Gellich Leather Company, Taunton, Mass. Filed Oct. 20, 1952.

**Cambi-Moc**

Applicant claims ownership of Registration No. 572,465.
For Leather.
Claims use since June 1950.

Ser. No. 636,890. Gellich Leather Company, Taunton, Mass. Filed Oct. 20, 1952.

**Cambi-Shu**

Applicant disclaims exclusive use of the term "Shu" apart from the mark as shown. Applicant claims ownership of Registration No. 572,465.
For Leather.
Claims use since June 1950.

Ser. No. 636,891. Gellich Leather Company, Taunton, Mass. Filed Oct. 20, 1952.

**Cambi-Soff**

Applicant claims ownership of Registration No. 572,465.
For Leather.
Claims use since June 1950.

Ser. No. 637,707. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Nov. 6, 1952.

**Vulkollan**

Applicant claims ownership of German Registration No. 560,362, dated July 23, 1943.
For Synthetic Polyester Elastomer Suitable for Various Uses in the Industrial Arts, Particularly as a Substitute for Natural Rubber, Leather, and the Like.

Ser. No. 639,742. Congoleum-Nairn, Inc., Kearny, N. J. Filed Dec. 19, 1952.

GOLD SEAL

Applicant claims ownership of Registrations Nos. 123,332, 125,980, and others.
For Cork and Cork Composition for Use in the Manufacture of Bulletin Boards.
Claims use since Sept. 30, 1952.

Ser. No. 640,046. Mutation Mink Breeders Association, Racine, Wis. Filed Dec. 26, 1952.

**JASMINE**

For Mink Pelts.
Claims use since Nov. 15, 1952.

Ser. No. 640,609. Harry T. Campbell Sons' Corp., Towson, Md. Filed Jan. 12, 1953.

**LITTER SNOW**

The word "Litter" is disclaimed apart from the mark as shown.
For Dry Ground Limestone in Use in Poultry Houses as a Drying Agent To Build up the Poultry Litter.
Claims use since Nov. 1, 1950.

## CLASS 4

## ABRASIVES AND POLISHING MATERIALS

Ser. No. 581,166. The Black and Decker Manufacturing Company, Towson, Md. Filed June 28, 1949.

**VITRI-GLAZE**

No claim is made to the word "Glaze" apart from the mark shown. Applicant claims ownership of Registration No. 372,216.
For Polish and Cleaner for Automobile Bodies.
Claims use since May 15, 1949.

Ser. No. 592,184. Automatic Buff Company, Chicago, Ill. Filed Feb. 9, 1950.

**AUTOMATIC**

For Buffing Wheels, Both Single and as Assembled Into Units.
Claims use since June 1949.

Ser. No. 624,274. Kepec Chemical Corporation, Milwaukee, Wis. Filed Jan. 30, 1952.

**KEEPA-SHINE**

The word "Shine" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 134,988.
For Compositions, Packaged in Liquid and Solid Form, for Use as Leather Dressings and Leather Polishes, and Also Metal Polishing Compositions.
Claims use since January 1920.

Ser. No. 640,920. Dow Corning Corporation, Midland, Mich. Filed Jan. 19, 1953. (Sec. 2f.)

**DOW CORNING**

For Organopolysiloxane Fluids for Use as Polishes and Polish Additives.
Claims use since March 1943.



## CLASS 6

## CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 609,721. Gard Industries, Skokie, Ill. Filed Feb. 7, 1951.

**GARD**

For Waterproofing Composition Suitable for Waterproofing Various Types of Materials Including Fabrics, Leather, Paper, Etc., and Articles or Products Made Therefrom.
Claims use since Dec. 1, 1950.

Ser. No. 620,501. Gordon Chemical Co., Inc., Kansas City, Mo. Filed Oct. 26, 1951.

CREOSOTINE

For Liquid Wood Preservative for Preventing Rot and for Prevention of Termites, Bluebugs, and Other Insects.
Claims use since May 1, 1936.

Ser. No. 624,545. R. M. Hollingshead Corporation, Camden, N. J. Filed Feb. 5, 1952. (Sec. 2f.)

**RUSTOP**

For Rust and Corrosion Inhibitors for Use in Liquid Cooling Systems of Internal Combustion Engines.
Claims use since January 1938.

Ser. No. 628,051. Pronto Products Co., Kansas City, Kans. Filed Apr. 14, 1952.

PRONTO

For Grain Fumigants.
Claims use since 1935.

Ser. No. 628,844. George P. Butterfield, doing business as Slip Ease Products Co., Chicago, Ill. Filed Apr. 29, 1952.

**SLIP EASE**

For Chemical Composition for Application on Fabrics To Prevent or Reduce the Formation of Static Electrical Charges Thereon.
Claims use since Feb. 26, 1952.

Ser. No. 635,197. Sandoz Chemical Works, Inc., New York, N. Y. Filed Sept. 12, 1952.

**LANASYN**

For Metalized Dyestuffs in Powder Form.
Claims use since May 8, 1952.

Ser. No. 635,684. Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Filed Sept. 24, 1952.

Colithoprint

No claim is made to the word "Print" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 430,108, 435,859, and others.
For Solution for Making a Master Sheet Out of Paper or Similar Products To Obtain Reproductions Therefrom.
Claims use since Sept. 12, 1952.

Ser. No. 635,886. George F. Schulenburg, doing business as Herald Products Company, St. Louis, Mo. Filed Sept. 27, 1952.

STOCKIN-LIFE FOR HOSE

Exclusive use of the words "Stockin" and "For Hose" apart from the mark, is disclaimed.
For Preparation for Treating Hosiery To Prevent Runs.
Claims use since Sept. 4, 1952.

Ser. No. 636,243. Milner Products Company, Jackson, Miss. Filed Oct. 6, 1952.

gala BLEACH

The word "Bleach" is disclaimed apart from the mark shown.
For Powdered Bleach.
Claims use since Sept. 2, 1952.

Ser. No. 637,210. Reichhold Chemicals, Inc., Detroit, Mich. Filed Oct. 27, 1952.

**VINALAK**

For Synthetic Resins and Solutions Thereof.
Claims use since Oct. 10, 1952.

Ser. No. 639,627. Flamort Chemical Co., San Francisco, Calif. Filed Dec. 17, 1952.




The drawing is lined for shading purposes only. Applicant claims ownership of Registration No. 381,920.

For Preparations for Fireproofing Wood, Wood Products, Paper, Paper Products, and Textiles, and Insecticidal Sprays.

Claims use since January 1935.

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Ser. No. 640,111. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Dec. 29, 1952.

## MYVACLOR

Applicant claims ownership of Registrations Nos. 416,826, 443,844, and others.

For Vacuom Diffusion Pump Fluids Comprising Chlorinated Hydrocarbon Oils.

Claims use since on or about June 27, 1952.

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Ser. No. 640,305. Reichhold Chemicals, Inc., Detroit, Mich. Filed Jan. 2, 1953.

## DIENOL

For Dehydrated Castor Oil.

Claims use since Dec. 8, 1952.

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Ser. No. 640,306. Reichhold Chemicals, Inc., Detroit, Mich. Filed Jan. 2, 1953.

## RICATYL

For Castor Oil Base Plasticizers.

Claims use since Dec. 8, 1952.

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Ser. No. 642,015. Ciba Limited, Basel, Switzerland. Filed Feb. 10, 1953.

## CUPROGENE

Priority is claimed under Sec. 44(d). Swiss application filed Nov. 10, 1952, Registration No. 144,268, dated Nov. 10, 1952.

For Coal Tar Colors.

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Ser. No. 642,048. Reichhold Chemicals, Inc., Detroit, Mich. Filed Feb. 10, 1953.

## POLYLITE

For Polyester Resins.

Claims use since Jan. 12, 1953.

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Ser. No. 643,141. Cardinal Chemical, Inc., Dallas, Tex. Filed Mar. 5, 1953.

## NOCOR

For Liquid Corrosion Inhibitor for Use in Oil and Gas Wells.

Claims use since Mar. 6, 1952.

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Ser. No. 643,150. General Dyestuff Corporation, New York, N. Y. Filed Mar. 5, 1953.

## DECROLINE

For Dyestuff Stripping Agent for Textile Processing, Particularly Zinc Formaldehyde Sulfoxylate, Modifications Thereof and Compositions Containing the Same.

Claims use since January 1926.

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Ser. No. 643,164. International Minerals & Chemical Corporation, Chicago, Ill. Filed Mar. 5, 1953.




The words "Minerals" and "Chemicals" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 548,595.

For Ferric Chloride; Potassium Carbonate, Both Hydrated and Calcined; Caustic Potash, Ground, Flaked or in Walnut Sizes, Either American Selected or Broken; and Aqueous Potash Solutions.

Claims use since Feb. 21, 1953.

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Ser. No. 643,548. Holiday Ranch, Inc., Columbia Falls, Mont. Filed Mar. 12, 1953.

## *Campfire Memories*

For Incense.

Claims use since June 1952.

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### CLASS 10

### FERTILIZERS

Ser. No. 641,684. Monsanto Chemical Company, St. Louis, Mo. Filed Feb. 3, 1953.

## FOLIUM

For Soluble Fertilizer Concentrates.

Claims use since Jan. 7, 1953.

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Ser. No. 642,096. Soil-Tone Corporation, Plymouth, N. C. Filed Feb. 11, 1953.

## *Fertilium*

For Fertilizer.

Claims use since Dec. 11, 1952.



### CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 624,250. Underwood Corporation, New York, N. Y. Filed Jan. 29, 1952.




Applicant claims ownership of Registration No. 380,925.

For Carbon Paper.

Claims use since at least as early as Dec. 14, 1951.

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### CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 629,373. Forrest R. MacDonald, doing business as Lower Third Supply Company, Alexandria, La. Filed May 8, 1952.




No claim is made to the word "Stone" apart from the mark as shown.

For Pulverized Stone-Aggregate Mixture Used for Veneering Surfaces and Being Sculptured on the Job To Resemble Natural Quarried Stone.

Claims use since on or about Sept. 10, 1950.

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Ser. No. 632,576. United States Plywood Corporation, New York, N. Y. Filed July 15, 1952.

## REZTEMP

For Synthetic Woods Such as Hardboards.

Claims use since June 19, 1952.

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Ser. No. 635,700. Seaporcel Metals, Inc., Long Island City, N. Y. Filed Sept. 25, 1952.

## SEAPORCLAD

Applicant claims ownership of Registration No. 403,972.

For Insulated Porcelain Enamel Panels Which May Be Used for Curtain Wall Construction To Replace Heavy Masonry Walls; as a Veneer or Ashlar Material for Exteriors, Interiors, and for Both Temporary and Permanent Partitions; and Used for Spandrels and Other Similar Uses.

Claims use since Feb. 15, 1952.

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Ser. No. 641,608. Douglas Fir Plywood Association, Tacoma, Wash. Filed Feb. 2, 1953. COLLECTIVE MARK.

## PLYRON

For Plywood.

Claims use since Dec. 27, 1951.

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Ser. No. 642,271. Douglas Fir Plywood Association, Tacoma, Wash. Filed Feb. 16, 1953. COLLECTIVE MARK.

## TEXTURE ONE-ELEVEN

For Plywood.

Claims use since Jan. 30, 1953.

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Ser. No. 643,096. Harbison-Walker Refractories Company, Pittsburgh, Pa. Filed Mar. 4, 1953.

## KAOSIL

For High Duty Fireclay Refractory Brick Used for Furnace Construction Primarily in Steel Plants.

Claims use since Feb. 10, 1953.

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Ser. No. 643,159. Gunnison Homes, Incorporated, New Albany, Ind. Filed Mar. 5, 1953.

## *Talisman*

For Pre-Fabricated Homes.

Claims use since Jan. 3, 1953.

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Ser. No. 643,901. J. Gerber & Co., Inc., New York, N. Y. Filed Mar. 19, 1953.




For Wooden Doors and Windows.

Claims use since Nov. 6, 1952.

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Ser. No. 644,343. Paramount Aluminum Products Corp., Mineola, N. Y. Filed Mar. 27, 1953.




For Storm Windows.

Claims use since April 1952.

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### CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 599,409. American District Steam Company, North Tonawanda, N. Y. Filed June 20, 1950.

## *Corruflex*

For Packless Expansion Joints for Pipe Lines.

Claims use since July 1, 1949.

Ser. No. 610,631. Radiator Specialty Company, Charlotte, N. C. Filed Feb. 28, 1951. (Sec. 2f.)

TRIPLE SEAL

For Flush Tank Balls.
Claims use since Feb. 14, 1933.

Ser. No. 639,382. A. J. Matter Mfg. Co., Chicago, Ill. Filed Dec. 12, 1952.

ZIP-LEVELER

No claim is made for the word "Leveler" apart from the trade-mark shown.
For Table Leveling Glides.
Claims use since Aug. 5, 1952.

Ser. No. 639,511. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

For Shoe Racks and Hat Racks Designed To Be Affixed to a Wall or Other Supporting Surface.
Claims use since 1932.

Ser. No. 641,330. Andrew J. Richardson, doing business as The-Onlee Float-Ball Valve Co., Lubbock, Tex. Filed Jan. 26, 1953.

THE-ONLEE

For Ball Type Float Valves for Commode Tanks.
Claims use since Nov. 1, 1951.

Ser. No. 641,597. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Feb. 2, 1953.

PEE VEE CEE

For Synthetic Resin Pipe.
Claims use since Jan. 16, 1953.

Ser. No. 641,875. Victaulic Company of America, Union, N. J. Filed Feb. 6, 1953.

"VIC"

For Flexible Pipe Couplings Comprising a Multiple Section Housing Made of Metal or Plastic, Fastening Means and Leak-Proof Gaskets Composed of Rubber, Synthetic Rubber or Plastic Material or a Combination Thereof, and Pipe Fittings Composed of Metal or Plastic and Including Elbows, Bends, T's and Blank Ends.
Claims use since Jan. 14, 1953.

## CLASS 15

## OILS AND GREASES

Ser. No. 626,758. Swan-Finch Oil Corporation, New York, N. Y. Filed Mar. 20, 1952.

MOTUL

Applicant claims ownership of Registrations Nos. 120,791 and 263,472.
For Internal Combustion Engine Lubricating Oils, Gear Lubricants, Lubricating Greases, Upper Cylinder Lubricants, Wire Rope Lubricants, Hydraulic Oils.
Claims use since Oct. 1, 1917.

Ser. No. 641,200. Carl Mortensen, doing business as U. S. Marine Chemicals Co., New York, N. Y. Filed Jan. 23, 1953.

mortolin

For Chemical Additives to Fuel Oil and Lubricating Oil.
Claims use since Dec. 10, 1952.

Ser. No. 642,378. The Texas Company, Dover, Del., and New York, N. Y. Filed Feb. 17, 1953.

FLOATCOAT

For Mineral Oils Used for Rust-Proofing Purposes.
Claims use since on or about Oct. 21, 1952.

Ser. No. 642,569. Republic Oil Refining Company, Pittsburgh, Pa. Filed Feb. 20, 1953.

E-KON-O-MEE

For Lubricating Oil.
Claims use since in the year 1932.

## CLASS 16

## PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 612,993. Dodd Chemical Corporation, doing business as Dodd Chemical Co., Little Ferry, N. J. Filed Apr. 23, 1951.

Surf-Pro

For Lacquer Surface Protective Coating Compositions.
Claims use since June 24, 1950.

Ser. No. 624,589. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Feb. 6, 1952.

KORALOY 450

For Ingredients Comprising a Primer, a Primer Accelerator, an Uncompounded Finisher and a Finisher Catalyst for Preparing a Corrosion-Resistant Protective Coating of a Thermosetting Resin.
Claims use since Mar. 7, 1950.



Ser. No. 640,961. Preservative Paint Co., doing business as Hobbycraft Paint Company, Seattle, Wash. Filed Jan. 19, 1953.

HOBBYCRAFT

For Dry and Ready-Mixed Paints, Paint Enamel, and Varnish.
Claims use since on or about Dec. 31, 1952.

Ser. No. 642,042. Mobile Paint Mfg. Co., Inc., Mobile, Ala. Filed Feb. 10, 1953.

"Southernized"

For Exterior Paint.
Claims use since Oct. 1, 1952.

## CLASS 18

## MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 597,924. Western Condensing Company, San Francisco, Calif. Filed May 22, 1950. (Sec. 2f as to "Peebles'.")

Peebles'
bovAD

Applicant disclaims exclusive right to the use of the letters "AD" separate and apart from their use as a part of the mark as shown. Applicant claims ownership of Registrant No. 349,180.
For Vitamin A and a Vitamin D Supplement for Animal or Poultry Consumption.
Claims use since Feb. 10, 1949, on the mark as shown; and since 1935 as to "Peebles'."

Ser. No. 607,227. Medical Specialties, Inc., Rochester, Minn. Filed Dec. 2, 1950.

ROTA SAN

For Composition in Compressed Capsule Form for Mitigating Nausea Due to Motion Sickness and Overindulgence.
Claims use since Nov. 7, 1950.

Ser. No. 612,031. The E. L. Patch Company, Stoneham, Mass. Filed Mar. 30, 1951.

TURASED

For Medicinal Preparation for the Relief of Hypertension.
Claims use since Jan. 20, 1948.

Ser. No. 612,060. Community Drug Co., Inc., Arlington, Va., and at other locations, both within and without the State of Virginia. Filed Mar. 31, 1951.

PRESCRIPTION DRUG FAIR DRUG STORES

Applicant disclaims all the wording on the drawing apart from the mark as shown.
For Aspirin, Saccharine Tablets, Glycerine Suppositories, Soda Bicarbonate Tablets, and Soda Mint Tablets.
Claims use since on or about Jan. 19, 1951.

Ser. No. 618,864. Slenderella Systems, Inc., Chicago, Ill., New York, N. Y., and Washington, D. C., formerly Sil-oo-ette Systems, Inc. Filed Sept. 15, 1951.

SILOOETTE

Applicant claims ownership of Registrations Nos. 306,998 and 552,077.
For Preparation for the Treatment of Obesity or Useful in Weight Control.
Claims use since September 1950.

Ser. No. 619,803. Davis Wholesale Drug Co., Inc., Baton Rouge, La. Filed Oct. 10, 1951.

MER-KU-TOL

For Liniment Indicated for Sore, Tired, Aching Muscles.
Claims use since 1898.

Ser. No. 624,135. Hart & Cooley Manufacturing Co., Holland, Mich. Filed Jan. 26, 1952.

SPED

For Germicide and Antiseptic for External Application.
Claims use since Nov. 20, 1951.

Ser. No. 624,497. The Oculine Company, Inc., Beverly Hills, Calif. Filed Feb. 4, 1952.



The drawing is lined for blue, but color is not claimed as an essential characteristic of the mark.
For Medicinal Preparations for the Eyes Including Medicated Eye Pads, Eye Drops, and Eye Bath.
Claims use since January 1950.

Ser. No. 625,789. Chester Laboratories, Inc., Beacon, N. Y. Filed Mar. 1, 1952.

gerifax

For Geriatric Nutritional Supplement.
Claims use since Jan. 7, 1952.

Ser. No. 628,922. Cocilana, Inc., Brooklyn, N. Y. Filed Apr. 30, 1952.

**COCILANA**

**Chloro-Nips**

The term "Cocilana" is disclaimed apart from the marks as shown. Applicant claims ownership of Registrations Nos. 354,503, 325,059, and 323,440.

For Cough Drops.

Claims use since Mar. 27, 1952.

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Ser. No. 631,367. National Health Aids of Baltimore, Inc., Baltimore, Md. Filed June 18, 1952.

**BASALL**

For Dietary Accessory Designed To Compensate for Certain Nutritional Deficiencies, Consisting of Vitamins, Minerals, and Proteins in Tablet Form.

Claims use since June 4, 1952.

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Ser. No. 633,628. Picker X-Ray Corporation, New York, N. Y. Filed Aug. 8, 1952.

**G. B. D.**

For Tablets for Internal Administration Which Are Used as a Dye in Cholecystography.

Claims use since June 12, 1952.

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Ser. No. 634,030. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Filed Aug. 16, 1952.

**KEMADRIN**

For Medicinal Preparation Intended for the Treatment of Parkinsonism.

Claims use since July 10, 1952.

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Ser. No. 636,139. Merck & Co., Inc., Rahway, N. J. Filed Oct. 3, 1952.

**MEPHYTON**

For Vitamins.

Claims use since July 14, 1952.

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Ser. No. 637,704. E. K. Demmel Co., Inc., Paterson, N. J. Filed Nov. 6, 1952.

**CRURICAST**

For Medicated Bandages.

Claims use since Oct. 28, 1938.

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Ser. No. 637,785. Nepera Chemical Co., Inc., Nepera Park, N. Y. Filed Nov. 7, 1952.

**BIOMYDRIN**

For Nasal and Aerosol Preparation Containing an Antibiotic for the Treatment of Nasal and Sinus Infections, Ointment Containing an Antibiotic for the Treatment of Local Infections, Solution for Aural Application Containing an Antibiotic for Application in the Form of an Ear Drop, an Ophthalmic Composition Containing an Antibiotic, Vaginal Suppositories, Troches, and Lozenges Containing an Antibiotic.

Claims use since Oct. 29, 1952.

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Ser. No. 637,988. The Denver Chemical Manufacturing Company, New York, N. Y. Filed Nov. 13, 1952.

**D e n c o r u b**

Applicant claims ownership of Registrations Nos. 405,820, 569,163, and 573,461.

For Medicated Rub.

Claims use since July 7, 1952.

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Ser. No. 638,738. Rowntree and Company Limited, London, England. Filed Nov. 28, 1952.



Applicant claims ownership of British Registration No. 709,437, dated July 31, 1952.

For Candy Lozenges Containing Medicaments Which Are Intended To Cure Coughs or Colds.

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Ser. No. 640,353. Nepera Chemical Co., Inc., Nepera Park, N. Y. Filed Jan. 5, 1953.

**NESAFAN**

For Antihistaminic, Analgesic, and Antipyretic Composition.

Claims use since Dec. 20, 1952.

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Ser. No. 640,366. Winthrop-Stearns Inc., New York, N. Y. Filed Jan. 5, 1953.

**MEBAROIN**

Applicant claims ownership of Registration No. 321,093.

For Anti-Convulsant and Anti-Epileptic Preparation.

Claims use since Dec. 5, 1952.

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Ser. No. 640,371. Allen & Hanburys, Limited, London, England. Filed Jan. 6, 1953.

**LAUDOLISSIN**

Applicant claims ownership of British Registration No. 693,638, dated Nov. 7, 1950.

For Pharmaceutical Preparation for Use as a Muscle Relaxant.



Ser. No. 641,036. Flint, Eaton and Company, Decatur, Ill. Filed Jan. 21, 1953.

**FERROLIP**

For Therapeutic Iron Compound To Supply Iron for Hemoglobin Regeneration.

Claims use since Oct. 17, 1950.

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Ser. No. 641,062. Les Laboratoires Albert Rolland, Societe Anonyme, Paris, France. Filed Jan. 21, 1953.

**Activarol**

Applicant claims ownership of French Registration No. 334,623, dated Apr. 10, 1941.

For Medicine in Ampule Form for Physical or Mental Depression, for Fatigue and Secondary Anemia.

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Ser. No. 641,063. Les Laboratoires Albert Rolland Societe Anonyme, Paris, France. Filed Jan. 21, 1953.

**Vagoprol**

Applicant claims ownership of French Registration No. 396,819, dated Sept. 29, 1949.

For Sedative.

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Ser. No. 641,124. Chicago Pharmacal Company, Chicago, Ill. Filed Jan. 22, 1953.

**KARDAK**

For Medicinal Preparation in Pill Form for Treatment of Mild Cardiac Decompensation Without Cumulative Action.

Claims use since Nov. 6, 1944.

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Ser. No. 641,432. Coe Laboratories, Inc., Chicago, Ill. Filed Jan. 28, 1953.

**HEMOLOX**

For Blood Coagulating or Hemostatic Material.

Claims use since January 1949.

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## CLASS 19

### VEHICLES

Ser. No. 629,878. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania. Filed May 17, 1952.

**RITZ**

For Automobiles and Structural Parts Thereof.

Claims use since Mar. 7, 1952.

Ser. No. 631,808. Monark Silver King, Inc., Chicago, Ill. Filed June 26, 1952.

**Bearcat**

For Bicycles.

Claims use since June 12, 1952.

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Ser. No. 644,565. Milton H. Penney, doing business as Penney Woodcraft Industries, Defiance, Ohio. Filed Apr. 1, 1953.

**SEA LEGS**

The pictorial representation of the goods is disclaimed apart from the mark as shown in the drawing.

For Boat Kits Consisting of Pre-Cut Parts for Small Boats Which Are Packed and Shipped to Purchasers for Final Assembly in Accordance With Assembly Plan Inserted in the Kits.

Claims use since Mar. 2, 1953.

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Ser. No. 646,609. Julie R. Forman, Litchfield, Conn. Filed May 7, 1953.

**REDIKAP**

For Collapsible Luggage Dollies.

Claims use since Apr. 14, 1953.

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## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 594,841. Jackson Industries, Inc., Chicago, Ill. Filed Mar. 29, 1950. (Sec. 2f.)

**Jackson**

For Video Receivers, Radio Receiving Apparatus, Electric Phonograph Apparatus With and Without Record Changing Mechanism, Combination Video Receivers, Radio Receiving and Electric Phonograph Apparatus and Combination Radio Receiving and Electric Phonograph Apparatus All With and Without Record Changing Mechanism.

Claims use since August 1943.

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Ser. No. 616,867. Pillow-Pal Radios, Inc., Malden, Mass. Filed July 24, 1951.

**Pillow-Pal**

Applicant disclaims the word "Pillow" apart from the mark as shown.

For Portable Radio Speakers for Use Under Pillow and Cushions for Individual Reception.

Claims use since Dec. 1, 1948.

Ser. No. 633,374. Pass & Seymour, Inc., Syracuse, N. Y. Filed Aug. 1, 1952.

P&S

Applicant claims ownership of Registrations Nos. 72,721, 214,680, and others.

For Electric Wiring Devices and Parts Thereof—Namely, Lamp Holders; Switches; Sockets; Outlet Receptacles; Attachment Plugs; Plastic and Metal Wall Plates; Supporting Straps; Bridges; Mountings; Boxes; Combination Insulating Terminal Boxes and Cover Carried Wiring Devices Such as Switches, Outlets, Lamp Sockets and Rosettes Designed for Surface Wiring; Cord Connectors; Beaded Pull Chain Assembled in Lengths With Terminal Pulls and Intermediate Insulators; Shade Adapters and Holders; Electric Lighting Fixtures; Insulators; Outlet Box Adapters; and Parts Thereof.

Claims use since May 1, 1944.

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Ser. No. 636,877. Collectron (Proprietary) Limited, Johannesburg, Union of South Africa. Filed Oct. 20, 1952.

COLLECTRON

Applicant claims ownership of South African Registration No. 219/51, dated Jan. 23, 1951.

For Electrostatic Dust Precipitating Equipment.

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Ser. No. 641,616. The Gabriel Company, Cleveland, Ohio. Filed Feb. 2, 1953.

Trombone

For Television Antenna.

Claims use since July 1952.

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## CLASS 22

## GAMES, TOYS, AND SPORTING GOODS

Ser. No. 626,609. Davis Manufacturing Co., Inc., doing business as Davis Manufacturing Co., Knoxville, Tenn. Filed Mar. 18, 1952.

DOODLE OIL

The word "Oil" shown on the drawing of the mark is disclaimed except in conjunction with the rest of the mark shown.

For Liquid Preparation Which Is Put on Live or Artificial Bait To Attract Fish by Scent.

Claims use since April 1950.

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Ser. No. 633,626. Chas. F. Orvis Company, Inc., Manchester, Vt. Filed Aug. 8, 1952. (Sec. 2f.)

ORVIS

For Fishing Rods, Reels and Reel Cases, Fishing Lines, Artificial Flies and Lures, Fly Boxes, Fishing Hooks, Gaff Hooks for Fishing, Leaders and Swivels, Leader Cases, Fishing Rod Carrying Cases, Minnow Traps, Creels, Tackle Boxes, Fishermen's Kit Bags, Dressing for Fishing Line and Artificial Flies, Anglers' Clips, Artificial Fly-Tying Kits; Fishing Line Driers, Salmon Tailers, Fly Chests, and Fishing Rod Sections and Parts.

Claims use since 1856.

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Ser. No. 636,708. James Heddon's Sons, Dowagiac, Mich. Filed Oct. 16, 1952. (Sec. 2f.)

Heddon "Winona"

For Fishing Tackle—Namely, Stringers and Snaps Therefor, Floats and Reels.

Claims use since July 1927.

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Ser. No. 640,910. Butler Brothers, Chicago, Ill. Filed Jan. 19, 1953.

Pennant

For Footballs, Basket Balls, Baseballs, Rugby Balls, Tennis Balls, Tennis Racquets, Boxing Gloves, and Striking Bags.

Claims use since March 1900.

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Ser. No. 641,681. J & W Steel Products, Inc., Bessemer, Ala. Filed Feb. 3, 1953.

For Children's Swings—Namely, Chain Swings, Level Bar Swings, Acting Bar Swings, and Supporting Framework for Such Swings.

Claims use since Jan. 22, 1953.

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Ser. No. 642,367. Plast-O-Matic Corporation, Fitchburg, Mass. Filed Feb. 17, 1953.

PLA-FUL

For Plastic Toys.

Claims use since Jan. 17, 1952.

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Ser. No. 644,415. Grant Toy Co., Van Nuys, Calif. Filed Mar. 30, 1953.

Ja-lene

For Doll Clothes.

Claims use since Mar. 3, 1953.

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Ser. No. 646,664. Graton & Knight Company, Worcester, Mass. Filed May 8, 1953.

"LITTLE FELLER"

For Baseball Sets, Consisting of Leather Baseball Gloves, Baseballs, and Baseball Bats.

Claims use since Nov. 1, 1952.



Ser. No. 646,836. Whitman Publishing Company, Racine, Wis. Filed May 11, 1953.

Gold Seal

For Jigsaw and Picture Puzzles.

Claims use since Dec. 1, 1949.

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## CLASS 23

## CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 519,056. The Bullard Company, Bridgeport, Conn. Original filed, act of 1905, Mar. 15, 1947; amended to application under act of 1946, Principal Register, Mar. 24, 1952. (Sec. 2f.)

SPACER

For Machine Tool of the Type Which Includes Mechanism for Providing Relative Movement Between a Tool Holder and a Work Support To Locate Both Relatively to Each Other.

Claims use since Aug. 24, 1946.

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Ser. No. 547,860. Marine Products Company, Detroit, Mich. Filed Jan. 23, 1948.

DURAFLEX

For Positive-Displacement Rotary Liquid Pumps of the Type Having a Cylindrical Rotor Chamber With Intake and Discharge Ports Separated by a Ramp Cam and Containing a Shaft-Driven Rotary Impeller of Elastic Deformable Material Such as Rubber or Synthetic Rubber Having Resilient Radially-Disposed Vanes Which Are Flexed Axially by the Cam to Forcibly Eject Liquid Through the Discharge Port, Such Pumps Being Thereby Capable of Handling Corrosive, Erosive or Abrasive Liquids Without Excessive Wear.

Claims use since Dec. 31, 1946.

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Ser. No. 556,044. The Warner & Swasey Company, Cleveland, Ohio. Filed May 1, 1948. (Sec. 2f.)

PIN DRAFTER

For Textile Machinery or Apparatus Such as Gill Boxes.

Claims use since August 1946.

Ser. No. 587,387. The Lees-Bradner Company, Cleveland, Ohio. Filed Nov. 5, 1949.

LB

The mark consists of a monogram of the letters "LB" within a circle.

For Machine Tools—Namely, Thread Millers and Parts Thereof.

Claims use since Sept. 29, 1943.

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Ser. No. 598,387. Pittsburgh Forgings Company, Coraopolis, Pa. Filed May 31, 1950.

P

Applicant claims ownership of Registration No. 512,142.

For Farm Implements—Namely, Rigid Shank Cultivators, Spring Shank Cultivators, Middlebusters, Field Cultivators, Utility Carriers in the Nature of a Rack or Frame for Attachment to the Hydraulic Lift Mechanism of Farm Tractors; Miscellaneous Ground Engaging Steels—Namely, Disc Harrows, Toothed Harrows, Plow Points, Alfalfa Steels, Cultivator Sweeps, Shovels, Mold Boards; and Agricultural Implement Parts.

Claims use since Apr. 28, 1949.

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Ser. No. 608,243. Eastern-Columbia, Inc., Los Angeles, Calif. Filed Dec. 30, 1950. (Sec. 2f.)

Tailor-Maid

For Sewing Machines.

Claims use since Sept. 23, 1940.

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Ser. No. 610,271. Hoglund Engineering and Manufacturing Company, Inc., Berkeley Heights, New Providence Township, Union County, N. J. Filed Feb. 19, 1951.

MAGNI-FORM

The word "Form" is disclaimed apart from the mark as shown.

For Manually or Electrically Driven Grinding Wheel Dressers Having Diamond Cutting Tools Mounted Thereon for Forming Contours on Grinding Wheels.

Claims use since Apr. 24, 1950.

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Ser. No. 618,293. Hanson-Van Winkle-Munning Company, Matawan, N. J. Filed Aug. 31, 1951. (Sec. 2f as to "Hanson-Van Winkle-Munning Co.")

HANSON-VAN WINKLE-MUNNING CO. MATAWAN, NEW JERSEY, U.S.A.

Applicant claims ownership of Registration No. 258,325.

For Polishing, Buffing, Cleaning, Pickling, Degreasing, and Washing Machines and Parts Thereof for Industrial Use.

Claims use since Dec. 15, 1927.

Ser. No. 621,958. Dapag (1943) Limited, London, England. Filed Dec. 1, 1951.

Tickopres

Applicant claims ownership of British Registration No. 637,871, dated June 12, 1945.

For Printing Machines and Parts Thereof, Both Hand Operated and Driven by Electric Motor.

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Ser. No. 623,168. Harold R. Swanton, Inc., Los Angeles, Calif. Filed Jan. 3, 1952.

MICROTECH

No claim is made to the representation of a ball bearing shown in the drawing, except as the same is used in conjunction with the other features of the mark. The lining in the letter "O" is for shading only.

For Precision Miniature Ball Bearings.

Claims use since Dec. 20, 1951.

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Ser. No. 624,352. David D. Nash and Jack A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, doing business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Filed Jan. 31, 1952.

KRW

For Various Machines and Tools for Use in Servicing, Repair and Assembly Operations in Connection With Various Parts of Motor Driven Vehicles—Namely, Connecting Rod Aligning Jigs; Air Compressors; Arbor Presses, Both Manual and Hydraulic; Sundry Forms of Hydraulic Presses; Automobile Jacks, Manual and Hydraulic; Valve Refacing Machines; Rotary Lifts for Motor Vehicles; Automobile Washing Machines; Work Stands for the Support of Motor Vehicle Parts in the Repair or Assembly Operations; Work Holders, Designated in the Trade as "Adapters" for the Direct Support of Motor Vehicle Parts on Work Stands; Clutch Compressors for Use in Clutch Assembling and Disassembling Operations; Pullers for Various Automobile Parts—Namely, Flywheels, Cylinder Lining Sleeves, Bushings, Bearings, Ball Joints, Gear Elements, Steering Wheels and Arms, Valve Guides and Brake Cables; Stud and Rivet Removers and Replacers; Piston Pin Drivers for Piston Pin Insertion or Removal; Bearing Drivers; Tote Pans for Holding Various Parts of a Motor Vehicle During Repair Work; Cutters for Producing Locking Keys for Various Parts of Automobiles; Tools for the Repair of Automobile Steering Mechanism—Namely, Camber and Caster Adjusting Wrenches, Spindle Bushing Reamers, Welch Plug Staking Tools, Counterbore Cutters for Removing Old Staking Burrs, and Assembling Tools for Spreading the Tines of the Front Suspension Arms; Valve Assembly Presses; Piston Ring Squeezers for Use in the Insertion of Pistons Into the Cylinders of Internal Combustion Engines; Front Axle King Pin Removers; Automobile Spring Spreaders; Brake Shoe Repair Machines; Spring Assembly Presses; Gravity and Pressure Type Hydraulic Brake Cylinder Fillers; Differential and Pinion Bearing Removers; Cam Shaft Bearing Removers and Replacers; Cylinder Valve Clearance Cutters; Replacers for Rear Wheel Bearing Cups, Oil Seals and Differential Bearings; Hydraulic Brake Tube Flaring Tools.

Claims use since June 2, 1924.

Ser. No. 624,355. David D. Nash and Jack A. Ahern, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, doing business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Filed Jan. 31, 1952.

KRW

For Various Machines and Tools for Use in Servicing, Repair and Assembly Operations in Connection With Various Parts of Motor Driven Vehicles—Namely, Connecting Rod Aligning Jigs; Air Compressors; Arbor Presses, Both Manual and Hydraulic; Sundry Forms of Hydraulic Presses; Automobile Jacks, Manual and Hydraulic; Valve Refacing Machines; Rotary Lifts for Motor Vehicles; Automobile Washing Machines; Work Stands for the Support of Motor Vehicle Parts in the Repair or Assembly Operations; Work Holders, Designated in the Trade as "Adapters" for the Direct Support of Motor Vehicle Parts on Work Stands; Clutch Compressors for Use in Clutch Assembling and Disassembling Operations; Pullers for Various Automobile Parts—Namely, Flywheels, Cylinder Lining Sleeves, Bushings, Bearings, Ball Joints, Gear Elements, Steering Wheels and Arms, Valve Guides and Brake Cables; Stud and Rivet Removers and Replacers; Piston Pin Drivers for Piston Pin Insertion or Removal; Bearing Drivers; Tote Pans for Holding Various Parts of a Motor Vehicle During Repair Work; Cutters for Producing Locking Keys for Various Parts of Automobiles; Tools for the Repair of Automobile Steering Mechanism—Namely, Camber and Caster Adjusting Wrenches, Spindle Bushing Reamers, Welch Plug Staking Tools, Counterbore Cutters for Removing Old Staking Burrs, and Assembling Tools for Spreading the Tines of the Front Suspension Arms; Valve Assembly Presses; Piston Ring Squeezers for Use in the Insertion of Pistons Into the Cylinders of Internal Combustion Engines; Front Axle King Pin Removers; Automobile Spring Spreaders; Brake Shoe Repair Machines; Spring Assembly Presses; Gravity and Pressure Type Hydraulic Brake Cylinder Fillers; Differential and Pinion Bearing Removers; Cam Shaft Bearing Removers and Replacers; Cylinder Valve Clearance Cutters; Replacers for Rear Wheel Bearing Cups, Oil Seals and Differential Bearings; Hydraulic Brake Tube Flaring Tools.

Claims use since Jan. 2, 1936.

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Ser. No. 624,922. American Electro Metal Corporation, Yonkers, N. Y. Filed Feb. 14, 1952.

MOLUBRIT

For Bearing Structures—To Wit, Bearing Sleeves, Bearing Blocks, Thrust Bearings.

Claims use since Dec. 28, 1951.

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Ser. No. 627,301. Eric Katz, Los Angeles, Calif. Filed Feb. 18, 1952.

EK

The mark consists of a monogram of initials "EK" in a circle.

For Pliers, Knives, Nippers, and Shears.

Claims use since Oct. 30, 1949.



Ser. No. 631,272. Clif Co., Chicago, Ill. Filed June 17, 1952.

CLIFCO

For Work Rest Blades for Centerless Grinders.

Claims use since July 6, 1946.

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Ser. No. 632,302. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed July 9, 1952.

PETEY

For Power-Operated Sprayers for Agricultural Use.

Claims use since June 23, 1952.

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Ser. No. 632,614. Gordon Johnson Company, Kansas City, Mo. Filed July 16, 1952.

SUSPEND-EVIS

The word "Suspend" is disclaimed apart from the mark shown in the drawing.

For Poultry Eviscerating Equipment Comprising Tables, Conveyor Belts and Chains, Hangers and Shackles, Washers and Tanks, Pans and Receptacles, and Parts Thereof, Sold as a Unit.

Claims use since Feb. 5, 1952.

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Ser. No. 633,111. Lawrence Machine and Pump Corporation, Lawrence, Mass. Filed July 26, 1952. (Sec. 2f as to "Lawrence.")

LAWRENCE PUMPS

Applicant disclaims the word "Pumps" and the representation of the pump apart from the mark as shown, but reserves its common law rights therein.

For Centrifugal Pumps.

Claims use since 1935.

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Ser. No. 633,630. Wellington W. Porter, Waterloo, N. Y. Filed Aug. 8, 1952. (Sec. 2f.)

PORTER-WAY

For Harvesters, and Parts Thereof.

Claims use since on or about June 1, 1945.

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Ser. No. 637,378. Industrial Tectonics, Inc., Ann Arbor, Mich. Filed Oct. 30, 1952.

ITI

For Precision Machined Balls for Use as Bearings and Other Machine Purposes.

Claims use since September 1946.

Ser. No. 637,900. American Suralloy Steel Corporation, Cleveland, Ohio. Filed Nov. 12, 1952.

SURALLOY

For Road Plow and Scraper Metal Blades; Metal Bars and Metal Plates for Use on Tractor Wheels.

Claims use since Oct. 27, 1952.

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Ser. No. 638,420. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Nov. 21, 1952. (Sec. 2f.)

INGERSOLL-RAND

Applicant claims ownership of Registration No. 146,488.

For Threading Equipment for Rock Drill Steel Rods—Namely, Die Heads for Use With a Lathe.

Claims use since June 1935.

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Ser. No. 640,469. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Jan. 7, 1953.

SCOTCHLITE

Applicant claims ownership of Registrations Nos. 565,512, 559,533, and others.

For Vacuum Operated Machine for Applying Flexible Sheet Material to a Rigid Surface.

Claims use since at least as early as Aug. 22, 1945.

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Ser. No. 640,511. John H. Graham & Co., Inc., New York, N. Y. Filed Jan. 8, 1953. (Sec. 2f.)

SPIKE DISC

Applicant disclaims the word "Disc" apart from the mark as shown. Applicant claims ownership of Registration No. 279,925.

For Garden and Lawn Cultivators.

Claims use since Sept. 25, 1930.

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Ser. No. 640,529. Rebuilt Engine Products Company, Detroit, Mich. Filed Jan. 8, 1953.

REPCO

For Reconditioned Internal Combustion Engines for Vehicles and the Like.

Claims use since Dec. 19, 1949.

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Ser. No. 641,449. Louis R. Inwood, Kansas City, Mo. Filed Jan. 28, 1953.

Quarter-Mart

The term "Quarter" is disclaimed apart from the mark shown in the drawing.

For Coin Operated Vending Machine.

Claims use since Nov. 29, 1951.

Ser. No. 641,557. Hermano R. Maier, Andover, N. J. Filed Jan. 30, 1953.

H R M

For Plastic Cookie-Cutting Molds.
Claims use since Mar. 7, 1947.

## CLASS 24

### LAUNDRY APPLIANCES AND MACHINES

Ser. No. 582,298. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to "Goodrich.")

1870 BFG B.F.Goodrich

The name "Goodrich" is the proper name of one of the founders of applicant's business. Applicant claims ownership of Registraations Nos. 64,996, 65,421, and others.
For Wringer Rolls for Washing Machines.
Claims use since about March 1946.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 621,361. Majestic Fuel Oil Company, Inc., Brooklyn, N. Y. Filed Nov. 17, 1951.

**PATCOMATIC**

For Thermally-Responsive Safety Switch for Cutting Off Boiler Fuel Supply.
Claims use since September 1951.

Ser. No. 622,742. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Filed Dec. 21, 1951.

**PILLOW**

For Balloons Adapted To Suspend Meteorological and Other Scientific and Signalling Instruments.
Claims use since Nov. 29, 1951.

Ser. No. 624,354. David D. Nash and Jack A. Ahern, and Manufactnrers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, who conducted his business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Filed Jan. 31, 1952.

KRW

For Pressure Responsive Ganges for Testing Automobile Engines in Respect to Engine Oil Pressure, Cylinder Compression, Carbureter Adjustment, Manifold Vacuum, and Fuel Pump Pressure and Vacuum, Instruments for Regulating the Timing of the Distributors in the Electrical Systems of Automobile Engines, Piston Ring Filing Gauges and Cylinder Sleeve Plug Gauges.
Claims use since on or about June 2, 1924.

Ser. No. 624,357. David D. Nash and Jack A. Ahero, and Manufacturers and Traders Trust Company, executors of the estate of Kirke R. Wilson, deceased, who conducted his business under the name "K. R. Wilson," Arcade and Buffalo, N. Y. Filed Jan. 31, 1952.

KRW

For Pressure Responsive Gauges for Testing Automobile Engines in Respect to Engine Oil Pressure, Cylinder Compression, Carbureter Adjustment, Manifold Vacuum, and Fuel Pump Pressure and Vacuum, Instruments for Regulating the Timing of the Distributors in the Electrical Systems of Automobile Engines, Piston Ring Filing Gauges and Cylinder Sleeve Plug Gauges.
Claims use since on or about Jan. 2, 1936.

Ser. No. 625,954. Anelex Corporation, Concord, N. H. Filed Mar. 5, 1952.

**SYNCHROPRINTER**

For Electromechanical Printing Apparatus for Use With Digital or Analogue Computers.
Claims use since Sept. 18, 1951.

Ser. No. 632,589. Becton Dickinson and Company, Rutherford, N. J. Filed July 16, 1952.

**CALCUMETER**

For Measuring Rule for Fitting Hosiery Consisting of a Combination Foot Size Measuring Devices and Adjustable Calculating Scale.
Claims use since on or about Oct. 12, 1951.

Ser. No. 641,109. Willson Products, Inc., Reading, Pa. Filed Jan. 21, 1953. (Sec. 2f.)

**WILLSON**

Applicant claims ownership of Registrations Nos. 108,119, 536,774, and 442,880.
For Ophthalmic Mountings and Parts Thereof.
Claims use since 1870.

Ser. No. 641,362. Waukee Engineering Company, Milwaukee, Wis. Filed Jan. 26, 1953.

*Waukee*

For Flow Meters Used in Measuring the Flow of Gases.
Claims use since Feb. 14, 1952.



Ser. No. 641,473. Julie R. Spencer, Denver, Colo. Filed Jan. 28, 1953.

**T-Vuers**

For Spectacles for Viewing Television.
Claims use since Dec. 26, 1952.

Ser. No. 641,513. Kern & Co. Ltd., Aarau, Switzerland. Filed Jan. 29, 1953.

**FILTIN**

Applicant claims ownership of Swiss Registration No. 136,458, dated Jan. 2, 1951.
For Photographic Objective Lenses With Filters.

Ser. No. 641,514. Kern & Co. Ltd., Aarau, Switzerland. Filed Jan. 29, 1953.

**Focalpin**

Applicant claims ownership of Swiss Registration No. 136,456, dated Jan. 2, 1951.
For Binoculars.

Ser. No. 641,515. Kern & Co. Ltd., Aarau, Switzerland. Filed Jan. 29, 1953.

**PIZAR**

For Binoculars, Telescopes, Objective Lenses for Photographic and Cinematographic Apparatus.
Claims use since 1937 in Switzerland; and first used in commerce between foreign nations and the United States in 1949.

Ser. No. 641,532. Universal Pictures Company, Inc., New York, N. Y. Filed Jan. 29, 1953.

**UNIRAMA**

For Series of Stereoscopic Motion Picture Films, Creating an Illusion of Three Dimensions, Synchronized With a Stereophonic-Type Sound.
Claims use since Jan. 13, 1953.

## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 625,292. Oval Manufacturing Company, Inc., New York, N. Y. Filed Feb. 20, 1952.

*Mon Tresor*

For Articles of Jewelry for Personal Wear, Not Including Watches—Namely, Earrings.
Claims use since December 1946.

Ser. No. 631,098. B. Emerson, Inc., Washington, D. C. Filed June 12, 1952.

EMERSON

Applicant disclaims the surname "Emerson."
For Jewelry—Namely, Pins, Brooches, Earrings, and Rings.
Claims use since June 11, 1952.

Ser. No. 631,704. Weinreich Brothers Company, New York, N. Y. Filed June 24, 1952.

PIXIES

For Pearl Necklaces, Pearl Brooches, Pearl Bracelets, and Pearl Earrings; Also Necklaces, Brooches, Earrings, and Bracelets.
Claims use since May 20, 1952.

Ser. No. 634,430. Untermeyer, Robbins & Co., New York, N. Y. Filed Aug. 22, 1952. (Sec. 2f.)

UR *American Beauty*

Applicant claims ownership of Registrations Nos. 241,763 and 393,349.
For Finger Rings With Precious and Semi-Precious Stones and Bracelets of Precious and Semi-Precious Metal.
Claims use since in or about 1912.

Ser. No. 637,868. Gem Jewelry Company of Beaumont, Inc., Beaumont, Tex. Filed Nov. 10, 1952.

Gem-Light

No claim is made to the word "Gem" apart from the mark as shown on the drawing.
For Diamond Rings.
Claims use since Apr. 14, 1949.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 634,879. Alboreo and Pratt, Akron, Ohio. Filed Sept. 5, 1952.

**REDDI BRUSH**

The word "Brush" is disclaimed apart from the mark.
For Combined Toothbrush and Holder Which Contains a Compartment for Toothpaste.
Claims use since Oct. 1, 1949.

## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 635,689. The Dayton Pump & Manufacturing Company, Dayton, Ohio. Filed Sept. 24, 1952.

Rapidayton

Applicant claims ownership of Registration No. 158,422.
For Water-Softeners of the Ion-Exchange Type.
Claims use since 1915.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 631,220. Radio Corporation of America, New York, N. Y. Filed June 14, 1952.

RCA

For Air Conditioners, Their Component and Replacement Parts as Well as Any Accessories Sold as a Unit With and Forming an Integral Part of Said Goods as Well as Dehumidifiers, Their Component and Replacement Parts as Well as Any Accessories Sold as a Unit With and Forming an Integral Part of Said Goods.
Claims use since Feb. 1, 1952.

Ser. No. 638,030. Starline Inc., Harvard, Ill. Filed Oct. 28, 1952.

STARLINE

Applicant claims ownership of Registration No. 357,244.
For Barn Roof Ventilators With and Without Conduits and With and Without Fans and With and Without Weather Vane Attachments, Ventilating Fans, and Roof and Wall Air Inlets With and Without Conduits.
Claims use since September 1929; and since 1931 as to the mark in the form shown.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 574,153. Monogram Manufacturing Company, Los Angeles and West Los Angeles, Calif., assignor, by mesne assignments, to Houston-Fearless Corporation, Los Angeles, Calif., a corporation of California. Filed Feb. 19, 1949.

MASTER SEAL

The word "Seal" is disclaimed apart from the mark shown.
For Adjustable Mechanical Seal for Maintaining a Seal Between a Rotatable Member and Its Bearing by Means of Liquid Under Pressure.
Claims use since October 1943.

Ser. No. 616,766. The B. F. Goodrich Company, Akron, Ohio. Filed July 21, 1951.

STRIPLAG

For Pulley Lagging Made of Rubber and Textile Material for Use With Flat Belting.
Claims use since July 9, 1951.

Ser. No. 633,996. Plastic Engineering & Sales Corporation, Fort Worth, Tex. Filed Aug. 15, 1952.

PESCO

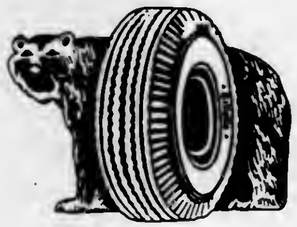
For Molded Seal Rings of Phenolic Resin and Glass Cloth.
Claims use since May 27, 1947.

Ser. No. 638,454. United States Rubber Company, New York, N. Y. Filed Nov. 21, 1952. (Sec. 2f as to the words "Gillette" and "A Bear for Wear.")




No claim is made to the word "Tires" or the representation of a tire apart from the mark as shown. Applicant claims ownership of Registration No. 155,426.
For Inner Tubes.
Claims use since August 1946, as to the mark shown; and since in 1918, as to the words "Gillette" and "A Bear for Wear."

Ser. No. 638,505. United States Rubber Company, New York, N. Y. Filed Nov. 22, 1952. (Sec. 2f as to the words "Gillette" and "A Bear for Wear.")



A BEAR FOR WEAR

No claim is made to the representation of a tire apart from the mark as shown. Applicant claims ownership of Registration No. 155,426.
For Pneumatic Tires and Inner Tubes.
Claims use since August 1946, as to the mark shown; and since in 1918, as to the words "Gillette" and "A Bear for Wear."



Ser. No. 640,113. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Dec. 29, 1952.

MYVASEAL

For High Vacuum Gaskets.
Claims use since on or about Nov. 13, 1950.

Ser. No. 640,312. Ton-Tex Corporation, Grand Rapids, Mich., and New York, N. Y. Filed Jan. 2, 1953.

CORD-TEX

Applicant disclaims the word "Cord" apart from the mark as shown.
For Transmission Belting.
Claims use since Dec. 2, 1952.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 610,172. General Petroleum Corporation, Los Angeles, Calif. Filed Feb. 16, 1951.

CREDIT CHEK

The drawing is lined for red. No claim is made to the words "Credit" and "Chek" apart from the mark.
For Partially Printed and Perforated Forms for Use in Credit Transactions, and Books of Such Forms.
Claims use since Feb. 15, 1950.

Ser. No. 632,362. Ferber Corporation, Englewood, N. J. Filed July 10, 1952.

VU-RITER

The term "Riter" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 522,301 and 550,840.
For Ball Point Pens, Fountain Pens, Stylo Type Pens, and Mechanical Pencils.
Claims use since July 27, 1948.

Ser. No. 639,842. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 20, 1952.

Style King

The word "Style" is disclaimed apart from the mark as shown.
For Fountain Pens.
Claims use since on or about July 1, 1951.

Ser. No. 641,833. Eversharp, Inc., Chicago, Ill. Filed Feb. 6, 1953.

Ventura

For Pens and Pencils.
Claims use since Jan. 22, 1953.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 628,521. Cherry-Burrell Corporation, Chicago, Ill. Filed Apr. 23, 1952.

CIRCLE

For Industrial Magazine Published Periodically.
Claims use since Oct. 1, 1947, on the mark as shown; and since on or about Feb. 1, 1917, on the word "Circle."

Ser. No. 632,371. Felix Glatz Import Co., Inc., New York, N. Y. Filed July 10, 1952.

Shopetta

For Printed Chart and Indicating Device Thereon for Use as a Shopping Reminder.
Claims use since on or about June 15, 1952.

Ser. No. 634,763. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Sept. 2, 1952. (Sec. 2f.)

THE STALEY JOURNAL

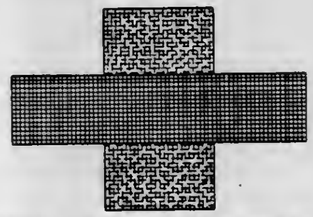
For Periodical Published Monthly.
Claims use since May 1921.

Ser. No. 635,636. The Dayton Rubber Company, Dayton, Ohio. Filed Sept. 23, 1952.

FACTAG

For Printed Attachable and Detachable Labels, All Sold as Such.
Claims use since on or about August 1952.

Ser. No. 637,039. Cummins Engine Company, Inc., Columbus, Ind. Filed Oct. 23, 1952.



The drawing is lined for the colors black and gold.
For Trade Periodicals, Circulars, and Pamphlets.
Claims use since Sept. 9, 1952.

Ser. No. 639,121. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

The PLAY HOUSE

For Section in a Periodic Publication.
Claims use since March 1949.

Ser. No. 639,123. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

The farmer's Washington

The word "Washington" is disclaimed apart from the mark.
For Section in a Periodic Publication.
Claims use since August 1942.

Ser. No. 639,124. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

What's new *in homemaking*

For Section in a Periodic Publication.
Claims use since February 1949.

Ser. No. 639,126. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

Farm Outlook

For Section in a Periodic Publication.
Claims use since October 1946.

Ser. No. 639,127. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

THE Farm Quizbox

For Section in a Periodic Publication.
Claims use since April 1943.

Ser. No. 639,128. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

Come see for yourself

For Section in a Periodic Publication.
Claims use since January 1952.

Ser. No. 639,130. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

*Smart Homemaker*

For Section in a Periodic Publication.
Claims use since April 1952.

Ser. No. 639,131. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

*Garden clinic*

The word "Garden" is disclaimed apart from the mark as shown.
For Section in a Periodic Publication.
Claims use since March 1945.

Ser. No. 639,132. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

The Mirror of Youth

For Section in a Periodic Publication.
Claims use since September 1952.

Ser. No. 639,135. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

HOW-TO *for the handyman*

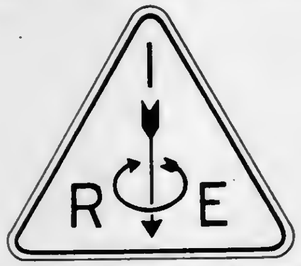
The word "Handyman" is disclaimed apart from the mark.
For Section in a Periodic Publication.
Claims use since December 1949.

Ser. No. 639,138. Meredith Publishing Company, Des Moines, Iowa. Filed Dec. 6, 1952.

*Easy does it*

For Section in a Periodic Publication.
Claims use since June 1950.

Ser. No. 642,144. The Institute of Radio Engineers, Inc., New York, N. Y. Filed Feb. 12, 1953.




Applicant claims ownership of Registrations Nos. 309,406, 309,409, and others.
For Publications Issued From Time to Time.
Claims use since 1912.

Ser. No. 642,237. Miller Electric Manufacturing Co., Inc., Appleton, Wis. Filed Feb. 13, 1953.

memco

For House Organ, Issued Periodically.
Claims use since Sept. 1, 1950.



## CLASS 39
## CLOTHING

Ser. No. 582,288. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 21, 1949. (Sec. 2f as to the name "Goodrich.")




The name "Goodrich" is the proper name of one of the founders of applicant's business. Applicant claims ownership of Registrations Nos. 143,623, 391,100, 396,658, and others.
For Footwear—Namely, Boots and Shoes, Gloves for Electricians and for General Industrial or Household Use, Industrial Protective Clothing—Namely, Coats, Jackets, Leggings, Pants, Aprons, Hats, and Protective Sleeves, and Baby Pants, All Made in Whole or in Part of Rubber or of Rubbery Resilient Material.
Claims use since about March 1946.

Ser. No. 591,275. Baitch & Castaldi, Inc., New York, N. Y. Filed Jan. 23, 1950.

himaleen

For Ladies', Misses', and Children's Coats, Suits.
Claims use since November 1949.

Ser. No. 592,561. Forrest Knitting Mills, also trading as Highland Knitting Mills, Philadelphia, Pa. Filed Feb. 16, 1950. (Sec. 2f.)

FORREST

Applicant claims ownership of Registration No. 273,692.
For Men's, Women's, Boys', and Girls' Bathing Suits, Bathing Trunks, Shirts, Sweaters, and Knitted Wristlets.
Claims use since on or about June 8, 1922.

Ser. No. 602,072. Staple Coat Company, New York, N. Y. Filed Aug. 10, 1950. (Sec. 2f.)

Staple

For Ladies' Coats and Suits.
Claims use since February 1945.

Ser. No. 613,061. French, Shriner & Urner Manufacturing Co., Boston, Mass. Filed Apr. 24, 1951. (Sec. 2f as to "French" and "Shriner.")

FRENCH SHRINER

Applicant claims ownership of Registrations Nos. 245,174, 254,437, and 262,143.
For Boots and Shoes of Leather, Fabric, or Combinations Thereof for Men and Boys.
Claims use since Jan. 25, 1951, as shown; and since May 1909, as to the words "French" and "Shriner."

Ser. No. 616,056. The Shirtcraft Company, Inc., New York, N. Y. Filed July 3, 1951.

MEL O GLO

For Men's and Boys' Work, Dress, and Negligee Shirts.
Claims use since on or about Dec. 15, 1930.

Ser. No. 616,392. Ann A. Smith, New York, N. Y. Filed July 12, 1951.

Tweeny

For Aprons for Household, Garden, Play, and the Like.
Claims use since on or about May 24, 1951.

Ser. No. 616,880. Dean Vail, Rowayton, Conn., assignor to Dean Vail Corp., Paterson, N. J., a corporation of New Jersey. Filed July 24, 1951.




Applicant disclaims the word "Mit" apart from the mark as shown on the drawing.
For Plastic Mitt.
Claims use since June 1, 1951.

Ser. No. 618,912. James Wellborn Bray, Sr., doing business as J. W. Bray Company, Dalton, Ga. Filed Sept. 18, 1951.




For Chenille Scuffies for Men, Women, and Children.
Claims use since Aug. 28, 1951.

Ser. No. 619,074. Duchess Hosiery Corporation, New York, N. Y. Filed Sept. 21, 1951.

My Beau Heel

The word "Heel" is disclaimed apart from the mark as shown.
For Women's Hosiery.
Claims use since July 16, 1951.

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Ser. No. 619,486. Comptoir de l'Industrie Cotonniere Societe a Responsabilite Limitee, Paris, France. Filed Sept. 11, 1951. (Sec. 2f.)

DIOR

Applicant claims ownership of Registration No. 523,754.
For Junior Misses', Misses', and Ladies' Coats, Dresses, Gowns for Outerwear, Suits, Jackets, Boleros, Evening Capes, Sport Ensembles Made Up of Blouses, Vests, and Skirts; Shawls and Scarfs; Neckties, Cravats, and Bowties; Pullovers and Sweaters; Coats, Jackets, Capes, Stoles, Scarfs, Muffs, and Collars All Made of Fur; Underwear; Stockings; Shoes and Hats.
Claims use since Feb. 27, 1947.

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Ser. No. 622,748. Kirk's, Inc., Oklahoma City, Okla. Filed Dec. 21, 1951.

La Belle ORIGINALS

The word "Originals" is disclaimed apart from the mark shown in the drawing.
For Men's and Women's Shoes of Leather, Fabric, and Rubber, and Combinations of the Same.
Claims use since July 1, 1946.

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Ser. No. 624,505. Shoe Corporation of America, Columbus, Ohio. Filed Feb. 4, 1952.

Hillbillys

For Men's, Women's, and Children's Shoes.
Claims use since May 10, 1940.

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Ser. No. 625,345. The Walker T. Dickerson Company, Columbus, Ohio. Filed Feb. 21, 1952. (Sec. 2f as to "Dickerson" and "Arch Relief.")

FLEXIE-WALKER ARCH RELIEF by Dickerson

Applicant claims ownership of Registrations Nos. 277,707, 303,658, and others.
For Women's and Misses' Shoes.
Claims use since Jan. 7, 1952 as shown; since February 1930 as to "Dickerson"; and since June 3, 1919, as to "Arch Relief."

Ser. No. 626,062. The Ward-Stilson Company, Anderson Ind. Original filed, act of 1946, Supplemental Register, Mar. 6, 1952; amended to application, Principal Register, Apr. 18, 1953. (Sec. 2f.)

Stilson

For Dress, Negligee, and Work Shirts for Men and Boys.
Claims use since Oct. 1, 1928.

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Ser. No. 628,209. Kabo, Inc., Chicago, Ill. Filed Apr. 17, 1952.

GRECIAN

Applicant claims ownership of Registration No. 293,450.
For Brassières, Foundation Garments, Girdles, Corsets, Corselets, and Garter Belts.
Claims use since in or about January 1924.

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Ser. No. 629,450. National Bellas Hess, Inc., North Kansas City, Mo. Filed May 9, 1952.

Bellecraft

Applicant claims ownership of Registration No. 290,658.
For Men's, Women's, and Girls' Shoes and Slippers of Leather, Fabric, or Combinations Thereof, and With Leather or Rubber Soles.
Claims use since July 24, 1931.

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Ser. No. 629,513. Philadelphia Girl Coat Company, Philadelphia, Pa. Filed May 10, 1952.

"Gain A Size"

The word "Size" is disclaimed apart from the mark as shown in the drawing.
For Children's Coats, Leggings, and Snow Suits.
Claims use since June 1951.

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Ser. No. 629,915. David Rittoff, doing business as the Plasco Safety Products Company, Springfield, Ohio. Filed May 19, 1952.

Plasco

For Protective Apparel for Industrial Workers, Made of Leather, Plastic, or Fabric, Alone or in Combination—Namely, Aprons, Sleeves, Hand-Pads, Leggings, and Spats.
Claims use since October 1949.

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Ser. No. 630,031. Scarves By Vera, Inc., New York, N. Y. Filed May 21, 1952.

Spring Tip

For Scarves for Women and Girls.
Claims use since Apr. 2, 1951.



Ser. No. 630,693. Morris E. Youngstein, Wilmington, Del. Filed June 3, 1952.

Freedettes

For Women's Shoes.
Claims use since Apr. 7, 1952.

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Ser. No. 630,746. Archdale Manufacturing Co., Inc., High Point, N. C. Filed June 5, 1952.

Archdale Maid

For Ladies' Slips and Half Slips.
Claims use since Oct. 5, 1948.

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Ser. No. 631,678. Nusrala-Bowen Shoe Co., Inc., St. Louis, Mo. Filed June 24, 1952.

Nurse Life

The word "Nurse" is disclaimed apart from the mark as shown on the drawing.
For Women's Shoes.
Claims use since Mar. 1, 1952.

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Ser. No. 633,236. Brevitt Shoes Limited, Leicester, England. Filed June 24, 1952.

BREVITTAIRS

Priority under Sec. 44(d). British application filed June 6, 1952, Registration No. 707,905, dated June 6, 1952. Applicant claims ownership of Registration No. 444,470.
For Boots, Shoes, and Slippers for Men, Women, or Children.

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Ser. No. 633,531. F. Burkart Manufacturing Co., St. Louis, Mo. Filed Aug. 6, 1952.




For Ladies' and Misses' Shoes, Made of Leather, Suede, Canvas, Fabric, or Compositions and Combinations Thereof.
Claims use since Sept. 1, 1948.



Ser. No. 635,053. Helen Phelan, doing business as Trade-A-Shoe, Flushing, N. Y. Filed Sept. 9, 1952.

TRADE-A-SHOE

Applicant disclaims the word "Shoe" apart from the mark as shown.
For Shoes for Men, Women, and Children.
Claims use since Aug. 20, 1952.

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Ser. No. 635,412. W. L. Douglas Shoe Company, Nashville, Tenn. Filed Sept. 18, 1952.

THE LEGIONNAIRE

Applicant claims ownership of Registration No. 281,561.
For Boots and Shoes for Men, Women, and Children Made of Leather, Rubber, Fabric, and Combinations Thereof.
Claims use since Oct. 22, 1930.

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Ser. No. 636,532. Jacob Mayer, Easton, Pa. Filed Oct. 11, 1952.

CENTER SQUARE CLOTHES

The word "Clothes" is disclaimed apart from the mark as shown on the drawing.
For Men's and Boys' Hats, Suits, Sport Coats, Top Coats, Overcoats, Trousers, Sweaters, Outer and Under Shirts, and Shorts.
Claims use since Aug. 8, 1952.

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Ser. No. 636,630. Caltex Sportswear Co. of California, Inc., Los Angeles, Calif. Filed Oct. 15, 1952.

Caprice OF HOLLYWOOD

No claim is made to the exclusive use of the words "Of Hollywood" apart from the mark as shown.
For Women's and Misses' Brassières.
Claims use since Sept. 17, 1952.

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Ser. No. 636,964. Bloom Shoe Shop, New York, N. Y. Filed Oct. 22, 1952.

Buffalofers

For Ladies' and Men's Open Casual Sandals Made of Leather, Fabric, and/or Combinations Thereof.
Claims use since April 1949.

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Ser. No. 637,355. The Black Manufacturing Co., Seattle, Wash. Filed Oct. 30, 1952.

KodicKs

Applicant claims ownership of Registration No. 271,412.
For Men's and Boys' Work and Sport Clothing—Namely, Flannel Shirts, Work Shirts, Negligee Shirts, Uniform Pants, Coats, Jackets, and Caps.
Claims use since April 1927.

Ser. No. 637,569. Callaway Mills Company, La Grange, Ga. Filed Nov. 4, 1952.

"KEX"

Applicant claims ownership of Registrations Nos. 231,767, 397,425, and others.

For Washable Articles of Wearing Apparel—Namely, Coveralls, Shop Coats, Smocks, Fabric Work Gloves, Work Pants and Work Shirts for Men and Women, and Diapers for Children.

Claims use since Aug. 5, 1952.

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Ser. No. 637,635. Algy Shoes, Inc., Everett, Mass. Filed Nov. 5, 1952.

Cello

Applicant claims ownership of Registration No. 570,953.

For Shoes for Women and Girls.

Claims use since July 15, 1952.

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Ser. No. 638,059. Adolph Blaich, Incorporated, San Francisco, Calif. Filed Nov. 14, 1952.

ABCO

For Athletic Clothing—Namely, Uniforms for Baseball, Football, Basketball, and Softball, Outer and Undershirts, Pants, Shorts, Hose, Socks, Jackets; Caps and Shoes for Baseball, Basketball, Football, Softball, Tennis, Track, and Gym; Sweat Shirts and Sweat Pants, Hunting and Fishing Clothing—Namely, Hunting Coats, Shell and Game Vests, Trap and Skeet Coats, Storm Jackets, Storm Parkas, Hunting Caps, and Hip and Foot Waders, Hunting Boots, Rubber and Plastic Waders, and Hip Boots.

Claims use since Mar. 1, 1951.

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Ser. No. 638,273. Levi Strauss & Company, San Francisco, Calif. Filed Nov. 18, 1952.

LEVI'S

Applicant claims ownership of Registrations Nos. 250,265, 413,386, 516,561, and 568,027.

For Men's, Women's, and Children's Overalls, Jackets, Outer Shirts, Coats, Slacks, and Pants; Women's and Children's Blouses, Outer Shorts, Pedal Pushers, Vests, Skirts, and Culottes; and Women's Bras.

Claims use since Apr. 15, 1952; and since Apr. 14, 1927, as to the word "Levi's."

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Ser. No. 638,460. Wilshire Hat Co., Inc., New York, N. Y. Filed Nov. 21, 1952.

Reggi of WILSHIRE

The surname "Wilshire" is disclaimed apart from the mark as shown.

For Ladies' Hats.

Claims use since Oct. 20, 1952.

Ser. No. 638,667. The Selby Shoe Company, Portsmouth, Ohio. Filed Nov. 26, 1952.

CANTILEVER X SHOES GROUND GRIPPER

No claim is made to the exclusive right to the use of the word "Shoes" separate and apart from the mark as shown.

Applicant claims ownership of Registrations Nos. 87,160, 199,084, and 326,216.

For Women's Shoes, Made From Leather, Fabric, Rubber, or Combinations of These Materials.

Claims use since Nov. 17, 1952.

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Ser. No. 640,121. Hepton & Co. (Clothiers) Limited, Leeds, England. Filed Dec. 29, 1952.

"Firmasport"

For Trousers.

Claims use since 1930 in Great Britain; and since 1945 in commerce between the United States and Great Britain.

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Ser. No. 640,309. Shoe Corporation of America, Columbus, Ohio. Filed Jan. 2, 1953.

C F's

Cushion Foundation

No claim is made to the words "Cushion Foundation" apart from the mark in its entirety.

For Men's, Women's, and Children's Shoes.

Claims use since Nov. 5, 1952.

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Ser. No. 640,807. Rich Guild Shirt Company, New York, N. Y. Filed Jan. 15, 1953.

SWISSELLA

For Men's Sport Shirts and Dress Shirts.

Claims use since Nov. 1, 1952.

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Ser. No. 640,962. Edward M. Reece, New York, N. Y. Filed Jan. 19, 1953.

grip guide

Apart from the combination "Grip Guide," the word "Guide" is disclaimed.

For Ladies' and Men's Gloves of Leather, Fabric, and Combinations Thereof.

Claims use since Dec. 1, 1951.



Ser. No. 640,965. Samuels Shoe Company, St. Louis, Mo. Filed Jan. 19, 1953.

Flyweights

For Ladies' and Misses' Shoes of Leather and Fabric.

Claims use since Jan. 7, 1953.

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Ser. No. 641,001. Bedford Shirt Corp., New York, N. Y. Filed Jan. 21, 1953.

DAILY DOUBLE

Applicant claims ownership of Registration No. 367,469.

For Men's and Boys' Sport Shirts, Sport Jackets, and Sport Slacks.

Claims use since Oct. 1, 1938.

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Ser. No. 642,412. Lilyette Brassiere Co., Inc., New York, N. Y. Filed Feb. 18, 1953.

INSPIRAL

For Brassières.

Claims use since Jan. 5, 1953.

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Ser. No. 642,509. R. H. Fyfe & Co., Detroit, Mich. Filed Jan. 30, 1953. (Sec. 2f.)

FYFES

Applicant claims ownership of Registrations Nos. 337,281, 338,448, and 338,462.

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made of Leather, Fabric, Rubber, and Combinations of Said Materials.

Claims use since about January 1875.

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Ser. No. 642,558. Kabo, Inc., Chicago, Ill. Filed Feb. 20, 1953.

Rumeur

For Girdles.

Claims use since on or about Jan. 28, 1953.

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Ser. No. 642,720. Advance Buying Corp., New York, N. Y. Filed Feb. 25, 1953.

Ivy Lynn

The name "Ivy Lynn" is fictitious.

For Women's and Children's Blouses and Dresses.

Claims use since Jan. 18, 1953.

## CLASS 44

## DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 567,944. E. D. Bullard Company, San Francisco, Calif. Filed Nov. 1, 1948. (Sec. 2f.)

BULLARD CYLINDRICAL FIRST AID KIT

No claim is made to the words "Cylindrical," "First," "Aid," and "Kit" apart from the mark as shown. The drawing is lined for the color green.

For First Aid Kits Containing Bandages, Compress, Tourniquet, Tweezers, Scissors, First Aid Instructions, and Various Medicaments for External and Internal First Aid Treatment.

Claims use since June 1, 1929.

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Ser. No. 630,284. Progressive Products, Le Mesa, Calif., assignor to Progressive Products, Inc., La Mesa, Calif., a corporation of California. Filed May 26, 1952.

Thumb-a-lone

The word "Thumb" is disclaimed apart from the mark as shown.

For Anti-Thumb Sucking Device in the Form of a Guard Formed of Pliable Material and Adapted To Fit Upon a Thumb.

Claims use since January 1952.

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Ser. No. 636,191. American Porcelain Tooth Company Ltd., Nahlat Itzhak, Near Tel-Aviv, Isreal. Filed Oct. 6, 1952.

TRURAY

Applicant claims ownership of Israilan Reg. No. 5,467, dated Nov. 18, 1939.

For Artificial Teeth.

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Ser. No. 638,304. The Maico Company, Incorporated, Minneapolis, Minn. Filed Nov. 19, 1952.

TRANSIST-EAR

The word "Ear" is disclaimed apart from the mark.

For Electronic Hearing Aids.

Claims use since Nov. 7, 1952.

## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Ser. No. 611,445. John Mulhern Company, San Francisco, Calif. Filed Mar. 16, 1951. (Sec. 2f.)

MULHERN'S PEERLESS

Applicant claims ownership of Registrations Nos. 150,908, 225,163, and 301,903.

For Extracts, Concentrates, Compounds, and Flavoring Preparations, All Used in the Manufacture of Soft Drinks.

Claims use since June 1, 1887.

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Ser. No. 616,646. 'Scoffee, Inc., Hewlett, N. Y. Filed July 18, 1951.




No claim is made to the representation of the container. The lining represents the color brown.

For Carbonated Coffee Flavored Maltless Soft Drinks and Coffee Flavored Extract for Making the Same.

Claims use since July 10, 1951.

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## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 532,524. Arthur Suprise, doing business as, Kay Cookie Company, Memphis, Tenn. Filed Aug. 26, 1947.




For Cookies.

Claims use since Jan. 1, 1943.

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Ser. No. 532,527. Arthur Suprise, doing business as, Kay Cookie Company, Memphis, Tenn. Filed Aug. 26, 1947.




The drawing is lined for red and blue.

For Cookies.

Claims use since Nov. 20, 1946.

Ser. No. 565,872. Fleishman's Pickles, Inc., St. Louis, Mo. Filed Sept. 25, 1948.




The representation of a pickle and the word "Pickle" are disclaimed, apart from the mark as shown.

For Whole, Cut-Up, and Sliced Pickles, Pickled Relish, Pickled Tomatoes, Prepared Hot Peppers, Prepared Horseradish, and Prepared Mustard.

Claims use since Oct. 20, 1947.

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Ser. No. 577,984. Prince Ice Cream Castles, Inc., Sterling, Ill. Filed Apr. 29, 1949.




No claim is made to the background representation apart from its association with the rest of the mark.

For Foods Employing Ice Cream Products—Namely, Ice Cream Sodas.

Claims use since July 9, 1948.

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Ser. No. 587,136. Westinghouse Electric Corporation, Pittsburgh, Pa., and Bloomfield, N. J. Filed Nov. 1, 1949.

TENDERAY

For Meat and Meat Products—Namely, Raw and Fresh Beef Carcasses and Cuts.

Claims use since Apr. 28, 1938.

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Ser. No. 605,688. The Sedutto Company, New York and Staten Island, N. Y., assignor to 314 New Dorp Lane Corp., New York, N. Y., a corporation of New York. Filed Oct. 31, 1950. (Sec. 2f as to the name "Sedutto's.")

Sedutto's
Happiness House

Applicant claims ownership of Registration No. 555,019.

For Ice Cream and Frozen Confections—Namely, Spumoni; Biscuit Torfoni; Waterice and Milk Sherbets; and Ice Cream Cake.

Claims use since Dec. 22, 1949, as to the mark shown; and since Feb. 1, 1922, as to the name "Sedutto's."



Ser. No. 616,209. Land O'Frost Products, Chicago, Ill. Filed July 7, 1951.

Land O'Frost

For Roast Beef and Barbeque Sauce, Roast Beef and Gravy, and Roast Pork and Gravy.

Claims use since June 22, 1951.

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Ser. No. 618,623. Carolina Coffee Company, Charleston, S. C. Filed Sept. 11, 1951.

Miss CAROLINA

The representation of the girl is fanciful. Applicant claims ownership of Registrations Nos. 327,881 and 375,246.

For Coffee, Tea, Ground Pepper, Ground Cinnamon.

Claims use since July 11, 1939 on the mark as shown; and since Sept. 15, 1930 as to "Miss Carolina."

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Ser. No. 620,388. George W. S. Pulford, doing business under the firm name Chanticleer Food Products, Windsor, Ontario, Canada. Filed Oct. 23, 1951.

Chanticleer

Applicant claims ownership of Canadian Registration No. N. S. 39,074, dated May 18, 1951.

For Food Beverage, Containing Cereals, Legumes, Honey, and Herbs and Their Derivatives.

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Ser. No. 620,497. Cutler Growers Exchange, Cutler, Calif. Filed Oct. 26, 1951.

Squares

For Fresh Vegetables.

Claims use since May 1948.

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Ser. No. 621,061. Charles Halverson, trading and doing business as Big Gain Products, West Union, Iowa, Mankato, Minn., and De Kalb, Ill. Filed Nov. 9, 1951.

BIG GAIN

For Livestock and Poultry Feeds.

Claims use since February 1934.

Ser. No. 622,786. Flour Mills of America, Inc., doing business under the style name of Kansas Flour Mills Company, Kansas City, Mo. Filed Dec. 24, 1951.

MARAVILLA

The English translation of "Maravilla" is "Wonder." Applicant claims ownership of Registration No. 296,510.

For Wheat Flour.

Claims use since Feb. 9, 1909.

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Ser. No. 626,479. Steven Candy Kitchens, Inc., Chicago, Ill. Filed Mar. 14, 1952.




No claim is made to the word "Honey" except in combination with the other features of the mark as shown.

For Candies.

Claims use since December 1951.

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Ser. No. 629,258. Seaplant Chemical Corporation, New Bedford, Mass. Filed May 6, 1952.

SeaKem

No claim is made to exclusive use of the term "Sea" apart from the mark as shown.

For Irish Moss Extractives in the Pure State; Irish Moss Extractives With Added Potassium Salts, With Added Locust Bean Gum and Potassium Salts, and With Added Dextrose; Red Seaweed Extractives; Refined Whole Irish Moss, All of Which Are Used as Ingredients in the Manufacture of Various Confectionery Products and Such Items as Salad Dressing, Imitation Catsup, and Cheese Spreads.

Claims use since Mar. 11, 1952.

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Ser. No. 631,036. Andrews Horse Radish Co., Inc., Wolcott, Conn. Filed June 11, 1952. (Sec. 2f.)

ANDREWS



The drawing is lined to indicate the color red.

For Horse Radish and Cocktail Sauce.

Claims use since about Aug. 1, 1946.

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Ser. No. 635,055. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Sept. 9, 1952.

EL VENCEDOR

The trade-mark "El Vencedor" is translated into English as "The one who prevails in an encounter, competition, or other contest."

For Wheat Flour.

Claims use since 1932.

Ser. No. 635,056. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Sept. 9, 1952.

LA TORRE

The mark "La Torre" is translated into English as "the tower or turret of a building or steeple of a church."
For Wheat Flour.
Claims use since 1942.

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Ser. No. 635,861. Palmer S. Van Doren, Easton, Pa.; The Easton National Bank, executor, and John E. Hocking, administrator, C. T. A., of said Palmer S. Van Doren, deceased, assignors to John E. Hocking, Williams Township, Pa. Filed Sept. 26, 1952. (Sec. 2f.)

Van Doren's

No claim is made to the words "Celery and Celery Hearts" or "Good for the Nerves," apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 291,987.
For Fresh Celery.
Claims use since 1900.

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Ser. No. 638,314. Robin Hood Popcorn Co., Inc., Minneapolis, Minn. Filed Nov. 19, 1952.

ROBIN HOOD

The name of "Robin Hood" refers to the famous legendary figure of medieval England.
For Buttered Popcorn.
Claims use since on or about Mar. 16, 1952.

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Ser. No. 639,463. Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Filed Dec. 15, 1952.

VELVETENE

Applicant claims ownership of Registration No. 117,868.
For Vegetable Oil Shortening.
Claims use since Nov. 18, 1952.

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Ser. No. 639,483. L. P. Maggioni & Company, Savannah, Ga. Filed Dec. 15, 1952.

MERMAID

Applicant claims ownership of Registrations Nos. 81,410, 178,005, and 284,632.
For Canned Oysters and Canned Shrimp.
Claims use since Oct. 1, 1889.

Ser. No. 640,387. Aplin & Barrett Limited, Yeovil, Somerset, England. Filed Jan. 6, 1953.

St Ivel

Applicant claims ownership of British Registrations Nos. 230,848, dated May 15, 1900; 236,509, dated Mar. 2, 1901; 250,007, dated Nov. 15, 1902; and United States Registrations Nos. 38,074 and 81,844.
For Packaged Meats—Namely, Calves Tongue, Pork Sausages, and Stewed Steak; Meat Pastes—Namely, Beef, Pork, Ham, Ham and Tongue, and Chicken Pastes; Mint Sauce; Mint in Aspic Jelly; Honey; Chutney; Fruit Puddings; Fish Pastes; Sterilized Cream and Salad Dressing; Cheese; Beans in Tomato Sauce; Canned Vegetables; Cheese and Tomato; Cheese and Celery; and Fruit and Berry Conserves.

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Ser. No. 640,470. Mother's Food Products, Inc., Newark, N. J. Filed Jan. 7, 1953.

Mother's

Applicant claims ownership of Registrations Nos. 565,172, 560,717, 552,693, and 540,298.
For Sauerkraut.
Claims use since on or about Oct. 17, 1952.

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Ser. No. 640,789. Edmundson-Duhe Rice Mill Co. Inc., Rayne, La. Filed Jan. 15, 1953.

Bayou BELLE

The word "Bayou" is disclaimed apart from the mark as actually used. Applicant claims ownership of Registration No. 436,010.
For Milled Rice.
Claims use since January 1949.

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Ser. No. 641,927. International Minerals & Chemical Corporation, Chicago, Ill. Filed Feb. 9, 1953.

Accent

For Bakery Products—Namely, Bread.
Claims use since Jan. 30, 1953.

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Ser. No. 642,010. R. D. Bradshaw & Sons, Wendell, Idaho. Filed Feb. 10, 1953.

SPUNNY SPREAD

The word "Spread" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 554,957.
For Crystallized Honey.
Claims use since on or about Dec. 27, 1952.



Ser. No. 642,482. T. Marzetti Company, Columbus, Ohio. Filed Feb. 19, 1953. (Sec. 2f.)

Marzetti's

For Prepared Salad Dressings and Canned Soups.
Claims use since 1919.

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Ser. No. 642,810. R. G. Free, doing business under the style name of Pet Food Packers, Washington Court House, Ohio. Filed Feb. 26, 1953.

Bounce

For Animal Feeds—Namely, Canned Dog Foods.
Claims use since July 1, 1952.

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Ser. No. 644,797. Schutter Candy Company, Chicago, Ill. Filed Apr. 6, 1953.

YOUNG NICK

Applicant claims ownership of Registrations Nos. 199,992, 206,191, and others.
For Candy Bars.
Claims use since Oct. 1, 1952.

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Ser. No. 645,248. L. P. Maggioni & Company, Savannah, Ga. Filed Apr. 14, 1953.

Daufuski

Applicant claims ownership of Registration No. 134,254.
For Canned, Fresh, and Fresh Frozen Vegetables.
Claims use since 1900.

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Ser No. 645,374. J. Aron & Company, Inc., New York, N. Y. Filed Apr. 16, 1953. (Sec. 2f.)

DUDLEY

For Green Coffee Sold in Bulk Only.
Claims use since July 1, 1920.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Ser. No. 617,713. Cusenier (Societe Anonyme de la Grande Distillerie E. Cusenier, Fils Aine & Cie), Paris, France. Filed Aug. 15, 1951. (Sec. 2f.)

CUSENIER

CUSENIER ORANGE

CUSENIER

All wording except the word "Cusenier" is disclaimed apart from the mark shown. Applicant claims ownership of Registrations Nos. 312,197, 62,370, 62,200, 62,371, 286,918, and 62,336.
For Alcoholic Cordials—Namely, Orange Curacao.
Claims use since 1909 in France; and since 1909 in commerce between France and the United States.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 621,548. The Dickey Manufacturing Co., Toledo, Ohio. Filed Nov. 23, 1951. (Sec. 2f.)

Dickey

Applicant claims ownership of Registration No. 181,839.
For Awnings, Banners, Flags, Pennants, Furniture Covers in the Nature of Drop Cloths Used by Painters and Decorators To Protect Furniture, Furniture Pads, Tarpaulins, and Tents.
Claims use since on or about Jan. 3, 1922.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Ser. No. 605,033. The House of Stuart, Incorporated, Newark, N. Y. Filed Oct. 17, 1950. (Sec. 2f.)

HOUSE OF STUART

For Cleansing Cream, Cleansing Lotion, Dry Complexion Cream, Complexion Mist, Hand Balm, Personal Deodorant Cream, Face and Hand Lotion, Throat Cream, Cream Rouge, Face Powder, Lipstick, Nail Enamel Base Coat, Nail

Enamel, Eye Massage Cream, Hand Cream, Liquid Hair Dressing, Bath Oil, Cologne, Dusting Powder, Talcum Powder, Mouth Wash, and Perfume.
Claims use since 1941.

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Ser. No. 624,522. Aladdin Laboratories, Inc., Minneapolis, Minn. Filed Feb. 5, 1952.

Lemoglo

Applicant claims ownership of Registrations Nos. 291,307 and 318,794.
For Hair Rinse.
Claims use since July 15, 1931.

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Ser. No. 627,398. Germaine Monteil Cosmetiques Corporation, New York, N. Y. Filed Apr. 1, 1952.

RED FLASH

For Lipstick and Cream Rouge.
Claims use since Feb. 15, 1952.

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Ser. No. 634,009. Swiss Pine Importing Co., Inc., New York, N. Y. Filed Aug. 15, 1952.

Swiss Miss

For Scenting and Softening Oil for Bath Water.
Claims use since December 1950.

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Ser. No. 635,049. Old Empire Manufacturing Chemists, Inc., doing business as Elizabeth Whitney, Newark, N. J. Filed Sept. 9, 1952.

Elizabeth Whitney

The name "Elizabeth Whitney" is fanciful.
For Skin Creams, Hand Lotion, Cream Deodorant, Pine Bath Oil, Cologne.
Claims use since July 13, 1951.

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Ser. No. 640,315. Wildroot Company Inc., Buffalo, N. Y. Filed Jan. 2, 1953.

Lady Wildroot

Applicant claims ownership of Registrations Nos. 84,528 and 299,653.
For Cream Hair Dressing and Wave Set.
Claims use since Jan. 22, 1952.

Ser. No. 641,008. Bourjois, Inc., New York, N. Y. Filed Jan. 21, 1953.

Two for You!

For Perfume.
Claims use since Aug. 1, 1949.

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Ser. No. 641,080. Carolyn Nilson, doing business under the name Carolyn Nilson, Cosmetics, Detroit, Mich. Filed Jan. 21, 1953.

carolyn nilson
Cosmetics

The word "Cosmetics" is disclaimed apart from the mark as shown in the drawing.
For Cosmetics and Toilet Preparations—Namely, Face Cream, Body Cream, Eye Cream, Eyelash Cream, Face Powder, Face Powder in Cake Form, Rouge, Lipstick, Eyeshadow, Foundation Cream, Personal Deodorant, Hand Lotion, Cologne, After Shave Lotion, Skin Lotion, Milk Astringent, Skin Tightener, Cream Face Mask, Scalp Conditioner, Mineral Bath Salts, Large Pore Astringent, Lotion for Bleaching and Toning the Skin.
Claims use since 1937.

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Ser. No. 641,990. Tantu Products Inc., Miami Beach, Fla. Filed Feb. 9, 1953.

TANTU

For Suntan Lotion.
Claims use since Feb. 2, 1953.

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## CLASS 52

## DETERGENTS AND SOAPS

Ser. No. 598,865. The Reaction Products Co., Richmond, Calif. Filed June 9, 1950.

Zoff

For Chemical Cleanser for Copper, Stainless Steel, Chrome, Brass, Enamel Ware, Tile, and Porcelain.
Claims use since June 1, 1950.



Ser. No. 623,651. Diamond Alkali Company, Cleveland, Ohio. Filed Jan. 16, 1952.

O&W
COMPOUND

The term "Compound" is disclaimed apart from the mark as shown.
For Washing Compound Especially Suited for Scouring Fabrics Impregnated With Grease.
Claims use since Sept. 7, 1951.

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Ser. No. 624,348. John W. Moore, doing business as Moore Products Mfg. Co., Ames, Iowa. Filed Jan. 31, 1952.

GEORGE

The lining shown on the drawing is for red; color however is not claimed as a material feature of the mark.
For Cleaner for the Removal of Smoke, Smudge, Grease, Dye Matter, and Other Household Dirt From Hard Surfaces Such as Wood, Metal, Glass, Paint, and Porcelain.
Claims use since Dec. 15, 1951.

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Ser. No. 630,007. Alfred Earl Harriman, doing business as Harriman Products Co., Los Angeles, Calif. Filed May 21, 1952. (Sec. 2f.)

HARRIMAN PRODUCTS CO.

TOP QUALITY

The words "Products Co." and "Top Quality" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 508,124.
For General Cleaning Preparation.
Claims use since July 5, 1946.

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Ser. No. 634,432. Farbwerke Hoechst, vormals Meister Lucius & Bruning, Frankfurt am Main Hochst, Germany. Filed Aug. 13, 1952.

Hostapon

Applicant claims ownership of German Registration No. 602,269, dated Nov. 6, 1950.
For Detergents—Namely, Washing Agents and Industrial Soaps for Textiles.

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Ser. No. 635,358. Eutectic Welding Alloys Corporation, New York, N. Y. Filed Sept. 17, 1952.

EXFLUX

The word "Flux" is disclaimed apart from the mark as shown.
For Preparation for Removing Slag Residues From Metal Surfaces After a Soldering, Brazing, or Welding Operation, and for Conditioning Such Metal Surfaces.
Claims use since Sept. 4, 1952.



Ser. No. 638,413. Fabergé, Inc., New York, N. Y. Filed Nov. 21, 1952.

APHRODISIA

Applicant claims ownership of Registration No. 353,522.
For Soap.
Claims use since September 1951.

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Ser. No. 638,514. Ansul Chemical Company, Marinette, Wis. Filed Nov. 24, 1952.

ANSUL "DRI-SOL"

Disclaimer is made of the word "Dri" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 402,775, 519,740, and others.
For Cleaning Solvent for Refrigeration Equipment.
Claims use since July 11, 1952.

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Ser. No. 643,565. R. R. Street & Co., Inc., Chicago, Ill. Filed Mar. 12, 1953.

886

For Dry Cleaning Soap.
Claims use since on or about Nov. 29, 1950, on the goods specified; and since Feb. 10, 1953, in its present form.

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Ser. No. 644,109. Globe Products of Florida, Inc., Clearwater, Fla. Filed Mar. 24, 1953.

GLOSUDS

For Shampoo Cleaner Concentrate for Rugs, Upholstery, Draperies, Leather, Automobile Interiors, Walls, Woodwork, Floors, Windows, Tiles, Clothing.
Claims use since Mar. 7, 1953.

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Ser. No. 644,340. Norsan Products, Inc., Cleveland, Ohio. Filed Mar. 27, 1953.

NORSAN

For Suds for Dishes (a Detergent) and Free Rinse (a Detergent).
Claims use since June 1, 1948.

# SERVICE MARKS

## CLASS 100

### MISCELLANEOUS

Ser. No. 519,770. The National Board of The Young Women's Christian Association of the U. S. A., New York, N. Y., by change of name from The National Board of The Young Women's Christian Associations of the United States of America. Original filed, act of 1905, Mar. 28, 1947; amended to application under act of 1946, Principal Register, June 23, 1948. COLLECTIVE MARK.

**Y-TEEN**

Applicant claims ownership of Registration No. 440,974.

For Building a Fellowship of Women and Girls Devoted to the Task of Realizing in Their Common Life Those Ideals of Personal and Social Living to Which They Are Committed by Their Faith as Christians.

Claims use since Aug. 30, 1946.

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Ser. No. 598,045. Sigma Phi Epsilon Fraternity, Richmond, Va. Filed May 24, 1950. COLLECTIVE MARK.




The drawing is lined for red and gold. The English equivalent of the arcbaic Greek word "'Eyyûn" is "Pledge." The word "'Eyyûn" is hereby disclaimed apart from the mark shown in the drawing.

For Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity.

Claims use since 1908.

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Ser. No. 621,965. Interstate Bakeries Corporation, Kansas City, Mo., doing business as The Gold Cross Organization, Chicago, Ill. Filed Dec. 1, 1951.

**GOLD CROSS**

For Health Counselling and Care Service Providing for Periodic Medical Examinations and Preventive Medical Care for Executives of Various Companies.

Claims use since Nov. 23, 1951.

## CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 630,632. Technilogs, Philadelphia, Pa. Filed June 2, 1952.

**TECHNILOGS**

For Preparation, Planning, Detailing, Printing, Lay-Out, and Writing of Catalogues in Engineering, Medical, and Technical Fields.

Claims use since Apr. 18, 1950.

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## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 579,521. Sun Oil Company, Philadelphia, Pa. Filed May 25, 1949.

**A to Z SERVICE**

The word "Service" is disclaimed apart from the mark sought to be registered. Applicant claims ownership of Registration No. 362,740.

For Servicing Automobiles—Namely, Inspection, Lubrication, Greasing and Washing, Charging Batteries; and Other Services Not Incidental to the Sale of Goods but Required To Insure Safety of Operation—Namely, Mechanical Adjustments Including Changing Tires, Adjusting Brakes, Adjusting and Cleaning Carburetors, and Adjusting, Cleaning, and Changing Spark Plugs.

Claims use since Apr. 1, 1938.

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## CLASS 105

### TRANSPORTATION AND STORAGE

Ser. No. 550,775. The Atchison, Topeka and Santa Fe Railway Company, Chicago, Ill. Filed Feb. 28, 1948. (Sec. 2f as to "Santa Fe.")

**Santa Fe**

For Railroad and Bus Transportation of Passengers and for Railroad and Truck Transportation of Property.

Claims use since Aug. 1, 1901.



# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1946, PRINCIPAL REGISTER

577,482. Mechanical Pencils. A. W. Faber-Castell Pencil Company, Incorporated, Newark, N. J., by change of name from A. W. Faber, Inc.
Original filed, act of 1905, June 21, 1946; amended to application under act of 1946, Principal Register, Oct. 3, 1947, Serial No. 504,346. Published May 5, 1953. Class 37.

577,483. Flatware—Namely, Knives, Forks, and Spoons of Base Metal. Englishtown Cutlery, Ltd., New York, N. Y.
Original filed, act of 1905, Jan. 6, 1947; amended to application under act of 1946, Principal Register, Mar. 10, 1952, Serial No. 515,299. Published Apr. 21, 1953. Class 23.

577,484. Loose Writing Paper for School or Office Use, Put Up in Wrapped Packages, Boxes, or Banded, and Note Book Fillers. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Oct. 29, 1948, Serial No. 526,320. Published Feb. 17, 1953. Class 37.

577,485. Canned Olive Oil, Olive Oil Packed in Tins, Etc. Lucio Musco, doing business as Musco Company, New York, N. Y.
Filed Feb. 7, 1948, Serial No. 549,082. Published Apr. 28, 1953. Class 46.

577,486. Grinding Mills and Parts Thereof. Hy-R-Speed, Incorporated, Los Angeles, Calif.
Filed Feb. 16, 1948, Serial No. 549,805. Published Apr. 14, 1953. Class 23.

577,487. Plain and Self Rising Wheat Flour, Poultry Feeds, Dairy Feeds, and Stock Feeds. Dixie-Portland Flour Co., doing business as The Arkansas City Flour Mills, Memphis, Tenn.
Filed Sept. 15, 1948, Serial No. 565,175. Published Apr. 28, 1953. Class 46.

577,488. Milling Machines. National Engineering Company, Chicago, Ill.
Filed Dec. 4, 1948, Serial No. 569,984. Published Apr. 21, 1953. Class 23.

577,489. Jams, Jellies, Crushed, Broken, and Whole Fresh Fruits Which Are Bottled for Use at Soda Fountains, Preserved Nuts Used as Toppings and in Cooking Foods and Ingredients of Food. Allied Fruit & Extract Co., Inc., New York, N. Y.
Filed Dec. 13, 1948, Serial No. 570,399. Published May 5, 1953. Class 46.

577,490. Overalls. Levi Strauss & Company, San Francisco, Calif.
Filed Apr. 30, 1949, Serial No. 578,119. Published May 5, 1953. Class 39.

577,491. Hand Operated Fire Extinguishers and Parts Thereof. National Cylinder Gas Company, Chicago, Ill.
Filed May 18, 1949, Serial No. 579,048. Published Dec. 30, 1952. Class 23.

577,492. Hair Retainers or Combs. Diadem, Inc., Leominster, Mass.
Filed June 23, 1949, Serial No. 580,928. Published Mar. 24, 1953. Class 40.

577,493. Liquid Preparation for Flushing and Cleaning Radiators; Liquid Preparation for Dissolving Grease and Dirt; Soap in Powder Form for Cleaning Automobiles; Hand Cleaner in Powder Form; Waterless Hand Soap; Upholstery Shampoo; and a Liquid Glass Cleaner. U. S. Chemical & Supply Co., Kansas City, Mo.
Filed Aug. 2, 1949, Serial No. 582,870. Published Dec. 18, 1951. Class 52.

577,494. Potato Shredding Machine. Mark Ross, doing business as California Engineering Company, Los Angeles, Calif.
Filed Aug. 5, 1949, Serial No. 583,051. Published Dec. 9, 1952. Class 23.

577,495. Dolls. Toycrafters, Philadelphia, Pa.
Filed Aug. 26, 1949, Serial No. 584,093. Published May 5, 1953. Class 22.

577,496. Clasps Utilized as Substitutes for Buttons for Holding Together Portions of Clothing. Kandell & Marcus, Inc., New York, N. Y.
Filed Sept. 22, 1949, Serial No. 585,172. Published Apr. 14, 1953. Class 40.

577,497. Paper Fasteners. Wilson Jones Company, Chicago, Ill.
Filed Sept. 30, 1949, Serial No. 585,616. Published Mar. 3, 1953. Class 37.

577,498. Toothpaste. Extraction & Chemical Company Inc., New York, N. Y.
Filed Oct. 7, 1949, Serial No. 585,920. Published Apr. 28, 1953. Class 51.

577,499. Bicycles. H. P. Snyder Manufacturing Company, Inc., Little Falls, N. Y.
Filed Oct. 8, 1949, Serial No. 586,021. Published May 5, 1953. Class 19.

577,500. Packaged Unit Containing Necessary Structural Repair and Replacement Parts, Etc. Carter Carburetor Corporation, St. Louis, Mo.
Filed Oct. 28, 1949, Serial No. 586,955. Published Apr. 7, 1953. Class 23.

577,501. Food Handling Machines and Parts Thereof and Therefor, Specifically, Food Slicing Machines, and Food Choppers. U. S. Slicing Machine Company, Inc., La Porte, Ind.
Filed Nov. 25, 1949, Serial No. 588,338. Published Apr. 7, 1953. Class 23.

577,502. Hydraulic Brake Cylinder Repair Kits and Parts for Hydraulic Brake Systems—Namely, Hose, Pistons, Etc. Southern Friction Materials Company, Charlotte, N. C.
Filed Dec. 13, 1949, Serial No. 589,278. Published May 5, 1953. Class 19.

577,503. Paperless, Rocker-Shaped Ink Blotter. Albert Allen, doing business under the name of Blocaris Company, Boston, Mass.
Filed Dec. 31, 1949, Serial No. 590,212. Published Mar. 3, 1953. Class 37.

577,504. Antibiotic Preparation Containing Oxytetracycline or a Derivative Thereof. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware.
Filed Jan. 20, 1950, Serial No. 591,192. Published May 5, 1953. Class 18.

577,505. Fluid Mixture for Use in Hydraulic Power Transmission Systems, Etc. Puritan Company, Incorporated, Rochester, N. Y.
Filed Apr. 17, 1950, Serial No. 595,852. Published Apr. 17, 1951. Class 52.

577,506. Chopped Alfalfa With Molasses Used as a Feed for Dairy Animals. Kaufmann Products Co., San Jose, Calif.
Filed May 23, 1950, Serial No. 597,961. Published Apr. 21, 1953. Class 46.

577,507. Coated Drab Paper. Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation.
Filed May 25, 1950, Serial No. 598,120. Published Feb. 24, 1953. Class 37.

577,508. Lubricating Oil. Canfield Oil Company, Cleveland, Ohio.
Filed June 20, 1950, Serial No. 599,417. Published Apr. 28, 1953. Class 15.

577,509. Poultry Feed. Albers Milling Company, Los Angeles, Calif.
Filed Aug. 8, 1950, Serial No. 601,859. Published May 5, 1953. Class 46.

577,510. Bags Made of Fabric Laminated to Plastic and Fabric Laminated to Metal Foil. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Aug. 21, 1950, Serial No. 602,487. Published May 5, 1953. Class 2.

577,511. CONSOLIDATED CERTIFICATE. Allen-Bradley Company, Milwaukee, Wis.
Electrical Switching and Controlling Apparatus, Etc. Filed Aug. 31, 1950, Serial No. 602,993. Published July 22, 1952. Class 21.
Temperature Responsive Switches and Parts Thereof. Filed May 3, 1952, Serial No. 629,141. Published Jan. 6, 1953. Class 26.

577,512. Cold Patch Cement, Tube Patch Cement, Gasket and Rim Cement, and Friction Tape. The Pure Oil Company, Chicago, Ill.
Filed Sept. 29, 1950, Serial No. 604,226. Published May 5, 1953. Class 5.

577,513. Paper Covers for Child's Feeding Bottles, Medicine Bottles, Laboratory Beakers, and Flasks. Charles L. Rubinstein, doing business as Ruby Products Co., Milwaukee, Wis.
Filed Sept. 29, 1950, Serial No. 604,233. Published Mar. 3, 1953. Class 37.

577,514. Combs and Bobby Pins, and Fans for Hand Use. Stanley Home Products, Inc., Westfield, Mass.
Filed Oct. 3, 1950, Serial No. 604,401. Published Apr. 7, 1953. Class 40.

577,515. Pencils. Aktieselskabet H. E. Gosch & Co's Taendstikfabriker og Aktietaendstikfabriken Godthaab, Copenhagen, Denmark.
Filed Oct. 12, 1950, Serial No. 604,761. Published Mar. 3, 1953. Class 37.

577,516. Paint Products—Namely, Non-Inflammable Paint and Varnish Remover. De Soto Paint & Varnish Co., Memphis, Tenn.
Filed Oct. 31, 1950, Serial No. 605,638. Published Apr. 28, 1953. Class 52.

577,517. Empty Tool Chests, Hopper Bins, Tool Boxes, Metal Baskets for Holding Various Articles, Metal Pans Nesting Within Each Other When Not in Use for Holding Various Articles, Metal Utility Boxes for Various Uses, and Tool Trays. Lyon Metal Products, Incorporated, Aurora, Ill.
Filed Nov. 4, 1950, Serial No. 605,909. Published Mar. 24, 1953. Class 2.

577,518. Windows and Doors Provided With Interchangeable Storm Windows and Screens. Weather-Seal Inc., Barberton, Ohio.
Filed Nov. 27, 1950, Serial No. 606,994. Published Apr. 21, 1953. Class 12.

577,519. Preparation for Use in Cardiotherapy. Lloyd Brothers, Pharmacists, Inc., Cincinnati, Ohio, now by change of name Lloyd Brothers, Inc.
Filed Dec. 6, 1950, Serial No. 607,336. Published June 3, 1952. Class 18.

577,520. Lipstick and Lipstick Cases Containing Lipstick. Gourielli, Inc., New York, N. Y.
Filed Dec. 9, 1950, Serial No. 607,498. Published Apr. 21, 1953. Class 51.

577,521. Power Sprayers, Weed Control Sprayers, Crop and Pest Control Sprayers, Etc. Hurst Industries, Inc., San Jose, Calif.
Filed Dec. 26, 1950, Serial No. 608,068. Published Dec. 30, 1952. Class 23.

577,522. Floor Sweeping Compound. Johns-Manville Corporation, New York, N. Y.
Filed Jan. 3, 1951, Serial No. 608,315. Published Apr. 28, 1953. Class 52.

577,523. Washing Machines for Use in Washing Milk and Beverage Bottle Cases, Boxes, and Cans. Joseph J. Bocchino, Rockaway, N. J.
Filed Jan. 12, 1951, Serial No. 608,698. Published Dec. 30, 1952. Class 23.

577,524. Printed Music and Printed Sheets Containing Music Notes of a New Form and Style in Which the Notes Are Graphically Depicted in Black and White Diagrams. Titus Bros. & Sons Music Company—Publisher, Philadelphia, Pa.
Filed Jan. 17, 1951, Serial No. 608,903. Published May 5, 1953. Class 38.

577,525. Wrapping and Decorating Material—Namely, Glassine Paper, Grease Proof Paper, and Cellulose Film Sold in Rolls and Sheets. Cellu-Craft Products Corporation, Flushing, N. Y.
Filed Jan. 25, 1951, Serial No. 609,228. Published Apr. 28, 1953. Class 37.

577,526. Dishwashing Compound. Economics Laboratory, Inc., St. Paul, Minn.
Filed Feb. 2, 1951, Serial No. 609,542. Published May 5, 1953. Class 52.

577,527. Molded Pulp Packing Trays for Use in the Packing, Storage, and Shipment of Perishable or Fragile Articles. Keyes Fibre Company, Portland and Waterville, Maine.
Filed Feb. 16, 1951, Serial No. 610,176. Published May 5, 1953. Class 2.

577,528. Magazine Feature. Meredith Publishing Company, Des Moines, Iowa.
Filed Feb. 17, 1951, Serial No. 610,221. Published May 5, 1953. Class 38.

577,529. Lettering Guides and for Materials Used in Lithographic Printing—Namely, Paper Lithographic Master Sheets, Etc. A. B. Dick Company, Niles, Ill.
Filed Feb. 23, 1951, Serial No. 610,423. Published Feb. 17, 1953. Class 37.

577,530. Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia.
Filed Feb. 27, 1951, Serial No. 610,565. Published Mar. 24, 1953. Class 40.

577,531. Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Etc. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia.
Filed Feb. 27, 1951, Serial No. 610,566. Published Apr. 14, 1953. Class 40.



577,532. Semi-Monthly Periodical in the Nature of a Metropolitan Information and Entertainment Guide. Scene Publishing Company, Inc., St. Louis, Mo.
Filed Mar. 14, 1951, Serial No. 611,311. Published May 5, 1953. Class 38.

577,533. Fruit Products Packed in Cans and Bottles—Namely, Apple Sauce, Sliced Apples, Apple Butter, and Fruit Jellies. H. F. Byrd, Inc., Winchester, Va.
Filed Apr. 19, 1951, Serial No. 612,846. Published Apr. 28, 1953. Class 46.

577,534. Chocolate Candies. De Erve H. de Jong N. V., Wormerveer, Netherlands.
Priority under Sec. 44(d). Dutch Registration No. 106,681, filed Oct. 27, 1950.
Filed Apr. 19, 1951, Serial No. 612,851. Published May 5, 1953. Class 46.

577,535. Water Emulsifiable Concentrate of Insecticidal, Germicidal and Fungicidal Solution for Use in Bathing Small Domestic Animals. Sentco, Inc., West Palm Beach, Fla.
Filed Apr. 21, 1951, Serial No. 612,975. Published May 5, 1953. Class 18.

577,536. Power Driven Scaffolding Which May Be Moved Both Vertically and Horizontally To Permit Repairs, Painting, Cleaning, Etc., of the Sides of Buildings, Bridges, and Other Structures. Spider Staging, Inc., Renton, Wash.
Filed Apr. 30, 1951, Serial No. 613,348. Published Dec. 30, 1952. Class 23.

577,537. Grinding and Polishing Machines for Conditioning Slitter Wheels of Slitting and Winding Machines for Webs of Flexible Material. Cameron Machine Company, Brooklyn, N. Y.
Filed May 1, 1951, Serial No. 613,362. Published Dec. 9, 1952. Class 23.

577,538. Machine Tools—Namely, Rotary Lathes, Vertical Boring Machines, Etc. Oerlikon Machine Tool Works, Buehrle & Co., Zurich-Oerlikon, Switzerland.
Filed May 16, 1951, Serial No. 613,942. Published Apr. 7, 1953. Class 23.

577,539. Paper Board, Butcher Paper, Corrugated Paper Rolls, Paper for Frozen Food Packaging, Etc. Kent H. Landsberg, doing business under the name of Kent H. Landsberg Company, Los Angeles, Calif.
Filed May 28, 1951, Serial No. 614,444. Published Feb. 17, 1953. Class 37.

577,540. Canned Vegetables, and Canned Vegetable Juices. D. E. Winebrenner Company, Inc., Hanover, Pa.
Filed June 19, 1951, Serial No. 615,427. Published May 5, 1953. Class 46.

577,541. Transparent Water-Resistant Masonry Sealer Coatings. Spray O Bond Company, Milwaukee, Wis.
Filed June 25, 1951, Serial No. 615,661. Published May 5, 1953. Class 10.

577,542. Leather Billfolds, Leather Wallets, Leather Key Cases, Unfitted Leather Cases for Toilet Articles, and Unfitted Leather Comb and File Cases. J. E. Seeman Company, Inc., Los Angeles, Calif.
Filed July 11, 1951, Serial No. 616,341. Published Apr. 28, 1953. Class 3.

577,543. Paper Cups, Paper Plates, and Paper Bags. Tested Papers of America, Inc., Chicago, Ill.
Filed July 14, 1951, Serial No. 616,519. Published Apr. 28, 1953. Class 2.

577,544. Gummed Tape Used for Sealing Envelopes, Packages, and the Like. Tested Papers of America, Inc., Chicago, Ill.
Filed July 14, 1951, Serial No. 616,520. Published May 5, 1953. Class 5.

577,545. Gummed Tape Used for Sealing Packages and the Like. Tested Papers of America, Inc., Chicago, Ill.
Filed July 14, 1951, Serial No. 616,523. Published May 5, 1953. Class 5.

577,546. Rat and Mouse Poison. Wisconsin Alumni Research Foundation, Madison, Wis.
Filed Aug. 8, 1951, Serial No. 617,465. Published May 5, 1953. Class 6.

577,547. Stain Finishes, Stainwax Wood Finishes, Penetrating Wood Sealers, and Paints. Minwax Company, Inc., New York, N. Y.
Filed Sept. 6, 1951, Serial No. 618,464. Published Apr. 28, 1953. Class 16.

577,548. Comic Cartoon Magazines. I. C. Publishing Co., Inc., New York, N. Y.
Filed Sept. 14, 1951, Serial No. 618,795. Published Apr. 28, 1953. Class 38.

577,549. Enzyme Products Used as Digestive Aids, in Replacement Therapy in Disease, and To Supplement Diets Deficient in Enzymes Because of Heat Treatment and Other Processing of the Food. Fred. Klee, Chicago, Ill.
Filed Sept. 14, 1951, Serial No. 618,803. Published Apr. 28, 1953. Class 18.

577,550. Poultry Feed. Consolidated Products Company, Danville, Ill.
Filed Sept. 15, 1951, Serial No. 618,845. Published May 5, 1953. Class 46.

577,551. Single Sheet Paper or Cardboard Shirt Protectors for New and Laundered Shirts. Victor Akers, doing business under the firm name and style of Victor Laundry Co., Berkeley, Calif.
Filed Oct. 19, 1951, Serial No. 620,183. Published Mar. 3, 1953. Class 37.

577,552. Flexible Multiple Layer Wrapping Sheet Including a Corrugated Paper Sheet Having a Smooth Paper Sheet Secured to One or Both Faces Thereof, Used for Protecting Furniture or Other Products in Shipment or the Like. Charles Dowd Box Co., Inc., Worcester, Mass.
Filed Oct. 19, 1951, Serial No. 620,200. Published Feb. 17, 1953. Class 37.

577,553. Segment Measuring Scale for Spectacle Lenses. Austin B. Belgard, Chicago, Ill.
Filed Oct. 31, 1951, Serial No. 620,717. Published Mar. 17, 1953. Class 26.

577,554. Air Tools—Namely, Angle Attachments, Backfill Tampers, Etc. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Oct. 31, 1951, Serial No. 620,731. Published Apr. 7, 1953. Class 23.

577,555. Room Deodorizer and Aerosol Mixtures Containing a Room Deodorizer for Killing Offensive Odors. Regal Chemical Corporation, Brooklyn, N. Y.
Filed Nov. 2, 1951, Serial No. 620,825. Published May 5, 1953. Class 6.

577,556. Metal Pipe Fittings; Valves for Fluids, Air, Gas, and Steam; Metal Pipe Unions, Flanges for Pipe Lines for Fluids, Air, Gas, and Steam, and for Pipe Fittings. N. V. Nederlands Amerikaanse Fittingfabriek, Zutphenseweg, Deventer, Netherlands.
Filed Nov. 8, 1951, Serial No. 621,024. Published May 5, 1953. Class 13.

577,557. Hard Synthetic Wax Compatible With Various Natural Waxes, for Use in the Industrial Arts. Airose Chemical Company, Cranston, R. I.
Filed Nov. 13, 1951, Serial No. 621,116. Published May 5, 1953. Class 6.

577,558. Vehicle Rubber Tires and Tubes and Camelback Material for Tire Retreading and Recapping. Pacific Tire & Rubber Company, Oakland, Calif.
Filed Nov. 13, 1951, Serial No. 621,163. Published May 5, 1953. Class 35.

577,559. Liquid Food Formula for Infant Feeding. Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware.
Filed Nov. 15, 1951, Serial No. 621,297. Published May 5, 1953. Class 46.

577,560. Non-Cellulosic Chemical Dehydrating Agent in Packaged Form. Eaton Chemical and Dyestuff Company, Detroit, Mich.
Filed Nov. 23, 1951, Serial No. 621,551. Published Dec. 23, 1952. Class 6.

577,561. Blood Diluting Pipettes Used in the Testing of Blood. American Hospital Supply Corporation, Evanston, Ill.
Filed Dec. 7, 1951, Serial No. 622,191. Published Mar. 10, 1953. Class 26.

577,562. Canned, Pickled, Salted, Smoked, and Preserved Fish; Etc. Brandao & Companhia, Limitada, Matozinhos, Portugal.
Filed Dec. 7, 1951, Serial No. 622,197. Published May 5, 1953. Class 46.

577,563. Power-Driven Lawn Mowers. Floyd W. Kurzweil, doing business as Flo-Mow Co., Kansas City, Mo.
Filed Dec. 13, 1951, Serial No. 622,442. Published Dec. 30, 1952. Class 23.

577,564. Reproductions of Printed and Pictorial Matter Sold as Such. Clifford H. Smith, doing business as Picturesort Company, New Haven, Conn.
Filed Dec. 13, 1951, Serial No. 622,464. Published May 5, 1953. Class 38.

577,565. Reproductions of Printed and Pictorial Matter Sold as Such. Clifford H. Smith, doing business as Picturesort Company, New Haven, Conn.
Filed Dec. 13, 1951, Serial No. 622,465. Published May 5, 1953. Class 38.

577,566. Apparel Guide Book, Stock Book, and Swatch Book of Clothing Fashions for Men and Boys. The Middishade Company, Inc., Philadelphia, Pa.
Filed Dec. 15, 1951, Serial No. 622,549. Published May 5, 1953. Class 38.

577,567. Thumb Tacks. The Bison Thumb Tack Company, Waterbury, Conn.
Filed Dec. 17, 1951, Serial No. 622,578. Published May 5, 1953. Class 13.

577,568. Chemical Products for Industrial Purposes, i. e., Textile Auxiliary Agents Which Serve for Dispersing of Lime-Soap, Kier Boiling, Also Levelling Agents, Dyeing Agents, and Printing Agents. Farbwerke Hoechst, vormals Meister Lucius & Brüning, Frankfurt am Main Hochst, Germany.
Filed Dec. 20, 1951, Serial No. 622,711. Published May 5, 1953. Class 6.

577,569. Filling Material for the Manufacture of Permanent Fillings and for the Construction of Crowns, Facings, and Inlays in Dentistry. Dental Fillings Limited, London, England.
Filed Dec. 26, 1951, Serial No. 622,814. Published May 5, 1953. Class 44.

577,570. Wooden Handles for Hammers, Hatchets, and Similar Types of Hand Tools. Totem Distributing Co., Seattle, Wash.
Filed Jan. 2, 1952, Serial No. 623,090. Published Apr. 21, 1953. Class 23.

577,571. Binding Tape for Trimming Garments. Clemtex Mfg. Co., Inc., Boston, Mass.
Filed Jan. 5, 1952, Serial No. 623,237. Published Mar. 24, 1953. Class 40.

577,572. Books. Eugenics Publishing Company, Incorporated, doing business under the trade name Liberty Books, New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,345. Published Apr. 28, 1953. Class 38.

577,573. Die Lubricants, Cutting Lubricants, Mold Lubricants, Machine Lubricants, and Metal Lubricating Compounds. Flexidraw Company, Dearborn, Mich.
Filed Jan. 11, 1952, Serial No. 623,456. Published Apr. 28, 1953. Class 15.

577,574. Coil and Mountings for Use in Lieu of or in Conjunction With Radio Antenna. Robert M. Keith, Jr., Laurel, Miss.
Filed Jan. 14, 1952, Serial No. 623,549. Published May 5, 1953. Class 21.

577,575. Can Openers. Joseph A. Cahil, doing business under the name of Cahil Manufacturing Company, New York, N. Y.
Filed Dec. 7, 1951, Serial No. 624,067. Published Dec. 30, 1952. Class 23.

577,576. Informational Leaflets and Descriptive Brochures Issued From Time to Time. International Standard Trading Corporation, New York, N. Y.
Filed Jan. 25, 1952, Serial No. 624,087. Published Apr. 28, 1953. Class 38.

577,577. Vitamin E Capsule. Meyer Chemical Company, Detroit, Mich.
Filed Jan. 25, 1952, Serial No. 624,094. Published Apr. 28, 1953. Class 18.

577,578. Sedative Elixir. Meyer Chemical Company, Detroit, Mich.
Filed Jan. 25, 1952, Serial No. 624,095. Published Apr. 28, 1953. Class 18.

577,579. Antacid Tablets. Meyer Chemical Company, Detroit, Mich.
Filed Jan. 25, 1952, Serial No. 624,097. Published Apr. 28, 1953. Class 18.

577,580. Fresh Avocados. Everett Johnston, doing business as King Salad Avocado Co., Vista and Fallbrook, Calif.
Filed Jan. 26, 1952, Serial No. 624,137. Published May 5, 1953. Class 46.

577,581. Alkyd Resin Rubber Base Paint. Superior Paint and Varnish Corporation, Chicago, Ill.
Filed Jan. 31, 1952, Serial No. 624,375. Published Apr. 28, 1953. Class 16.

577,582. Architectural Type Paints and Primers; Enamels; Varnishes, Etc. Fred'k A. Stresen-Reuter, Inc., Chicago, Ill.
Filed Feb. 1, 1952, Serial No. 624,430. Published Apr. 28, 1953. Class 16.

577,583. Electric Vacuum Cleaners and Vacuum Cleaner Parts. Price Vacuum Stores, Inc., Philadelphia, Pa.
Filed Feb. 4, 1952, Serial No. 624,500. Published May 5, 1953. Class 21.

577,584. Soap. Mem Company, Inc., New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,554. Published Apr. 28, 1953. Class 52.

577,585. Gasoline. Universal Oil Products Company, Chicago, Ill.
Filed Feb. 8, 1952, Serial No. 624,712. Published Apr. 21, 1953. Class 15.

577,586. Eyeglasses, Sunglasses, and Sun Visors Worn By a Person as a Light Filter. Lilly Dache, Inc., New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,197. Published Apr. 28, 1953. Class 26.

577,587. Garment Bags. Harjax Products Corp., New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,270. Published Apr. 28, 1953. Class 2.

577,588. Textile Fabrics Composed of Hair, Wool, Silk, and Regenerated Cellulose Used for Upholstery, Seat Covers, Baggage, Covers, and Furniture Covers. Comptoir des Textiles Artificiels, Paris, France.
Priority under Sec. 44(d). French Registration No. 502,899, filed Aug. 31, 1951.
Filed Feb. 26, 1952, Serial No. 625,523. Published Apr. 28, 1953. Class 42.



577,589. Decorative, Upholstery, and Clothing Fabrics of Wool, Silk, and Synthetic Fibres. Greenhut Fabrics, Inc., New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,592. Published Apr. 28, 1953. Class 42.

577,590. Decorative, Upholstery, and Clothing Fabrics of Wool, Silk, and Synthetic Fibres. Greenhut Fabrics, Inc., New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,593. Published Apr. 28, 1953. Class 42.

577,591. Piece Goods of Nylon for Use in Making Undergarments—Namely, Lingerie and the like. Hamilton Textile Mills, Inc., New York, N. Y., by change of name from Hillcrest Hosiery Mills, Inc.
Filed Feb. 27, 1952, Serial No. 625,601. Published Feb. 24, 1953. Class 42.

577,592. Calendars. Esquire, Inc., Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,726. Published May 5, 1953. Class 38.

577,593. Calendars and a Section or Feature in a Periodical Publication. Esquire, Inc., Chicago, Ill.
Filed Feb. 29, 1952, Serial No. 625,727. Published May 5, 1953. Class 38.

577,594. Coated Abrasives, Cloth and Paper, Such as Sand, Flint, Ruby, and Emery, in Sheets, Rolls, Belts, and Discs. F. Pannertz Schmirgelwerk Kommanditgesellschaft (Inc.), Hannoversch-Munden, Germany.
Filed Nov. 9, 1951, Serial No. 625,779. Published May 5, 1953. Class 4.

577,595. Fluorescent Sign Lamps, and Combinations of Fluorescent Lighting Fixtures and Fluorescent Sign Lamps. Duro-Test Corporation, North Bergen, N. J.
Filed Mar. 7, 1952, Serial No. 626,075. Published May 5, 1953. Class 21.

577,596. French Ice Cream. Richman Ice Cream Co., Sharptown and Woodstown, N. J.
Filed Mar. 11, 1952, Serial No. 626,264. Published May 5, 1953. Class 46.

577,597. Ready Mixed Paint for Interior Use. American-Marietta Company, Chicago, Ill.
Filed Mar. 18, 1952, Serial No. 626,598. Published Apr. 28, 1953. Class 16.

577,598. Clam Shell Buckets. Jos. F. Kiesler Company, Chicago, Ill.
Filed Mar. 22, 1952, Serial No. 626,888. Published Apr. 21, 1953. Class 23.

577,599. Printing, Spirit Duplicating, Letter-Opening, and Stamp-Affixing Machines, All for Office Use. Block & Anderson Limited, London, England.
Filed Mar. 25, 1952, Serial No. 626,974. Published Apr. 21, 1953. Class 23.

577,600. Lazy Susan Relish Dish Consisting of a Chromium-Plated Steel Base and a Glass Plate, Etc. Kromex Corporation, Cleveland, Ohio.
Filed Mar. 25, 1952, Serial No. 626,995. Published May 5, 1953. Class 13.

577,601. Spectacles. Societe Industrielle de Lunetterie, S. A. R. L., Paris, France.
Priority under Sec. 44(d). French Registration No. 415,051, filed Oct. 16, 1951.
Filed Mar. 28, 1952, Serial No. 627,227. Published Mar. 10, 1953. Class 26.

577,602. Pump Barrels. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 2, 1952, Serial No. 627,473. Published May 5, 1953. Class 23.

577,603. Fastening Devices — Namely, Rivets, Sealing Pins, and Clamps. Aviation Developments Limited, London, England.
Filed Apr. 3, 1952, Serial No. 627,484. Published Apr. 21, 1953. Class 13.

577,604. Hydraulic and Hydro-Pneumatic Presses, Hydraulic Accumulators, Hydraulic Die Cushions, Hydraulic Pumps, and Hydraulic Motors. American Steel Foundries, Chicago, Ill.
Filed Apr. 8, 1952, Serial No. 627,730. Published Apr. 21, 1953. Class 23.

577,605. Kites. Hoffman Lion Mills Company, Incorporated, Fall River, Mass.
Filed Apr. 10, 1952, Serial No. 627,880. Published May 5, 1953. Class 22.

577,606. Gas and Liquid Pipe Fittings, Consisting of Couplings, 45° L's, Adapters, 90° Elbows, T's, Threaded Branch T's, Fitting Reducers, and Fitting Increasers. Texas Lawn Sprinkler Co., Inc., Dallas, Tex.
Filed Apr. 12, 1952, Serial No. 628,011. Published Apr. 28, 1953. Class 13.

577,607. Lubricating Oils and Greases. Magie Bros. Incorporated, Chicago, Ill.
Filed Apr. 15, 1952, Serial No. 628,113. Published Apr. 28, 1953. Class 15.

577,608. Lead Pencils. Rootie Kazootie, Inc., New York, N. Y.
Filed Apr. 17, 1952, Serial No. 628,221. Published Feb. 24, 1953. Class 37.

577,609. Paint Products—Namely, Flat Wall Paint; Satin Gloss Enamel; High Gloss Enamel; Floor and Porch Enamel; Exterior Enamel; Undercoaters; and Paint Color Concentrates. Frey-Yenkin Paint Company, Columbus, Ohio.
Filed Apr. 23, 1952, Serial No. 628,529. Published Apr. 28, 1953. Class 16.

577,610. Women's and Misses' Dresses. Betty Briggs, New York, N. Y.
Filed Apr. 9, 1952, Serial No. 628,594. Published Apr. 28, 1953. Class 39.

577,611. Combined Projector and Viewer for Still Photographs. The FR Corporation, New York, N. Y.
Filed Apr. 29, 1952, Serial No. 628,852. Published Mar. 17, 1953. Class 26.

577,612. Weighing Scales. Continental Scale Corporation, Chicago, Ill.
Filed May 1, 1952, Serial No. 628,997. Published Mar. 17, 1953. Class 26.

577,613. Fish Netting. The Linen Thread Co., Inc., Paterson, N. J.
Filed May 7, 1952, Serial No. 629,305. Published Apr. 28, 1953. Class 42.

577,614. Textile Fabrics of Synthetic Fibers. Rutger Fabrics Corp., New York, N. Y.
Filed May 9, 1952, Serial No. 629,461. Published Apr 28, 1953. Class 42.

577,615. Dietary Food Products—Namely, Whipped Diet Dressings; Louis XIV French Type and Other Diet Salad Dressings; Diet Fruit Jellies and Jams—Namely, Raspberry, Blackberry, Loganberry, Boysenberry, Strawberry, Concord Grape, and Apple. Diet Foods, Inc., San Fancisco, Calif.
Filed May 14, 1952, Serial No. 629,655. Published May 5, 1953. Class 46.

577,616. Scoring Game in Which the Player's Score Depends Upon His Skill in Manipulating an Indicator. Richard C. Miller, Lansdowne, Pa.
Filed May 14, 1952, Serial No. 629,679. Published May 5, 1953. Class 22.

577,617. Fabrics of Cotton, of Synthetic Fibers, and of Mixtures of the Same. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed May 16, 1952, Serial No. 629,760. Published Apr. 28, 1953. Class 42.

577,618. Fabrics of Cotton, of Synthetic Fibers, and of Mixtures of the same. Joseph Bancroft & Sons Co., Wilmington, Del.
Filed May 16, 1952, Serial No. 629,763. Published Apr. 28, 1953. Class 42.

577,619. Machine Tool Attachments Made of or in Part of Diamond-Impregnated Metallic Abrasive Composition—Namely, Cutting Wheels, Saws, Drills, Honing and Grinding Wheels, Lens Grinding, Shaping, and Polishing Tools. Fish-Schurman Corporation, New Rochelle, N. Y.
Filed May 17, 1952, Serial No. 629,850. Published Apr. 14, 1953. Class 23.

577,620. Sewing Machines, Electric Sewing Machines, and Parts Thereof. Mid-State Wood Products Corporation, Rockford, Ill.
Filed May 22, 1952, Serial No. 630,090. Published Dec. 16, 1952. Class 23.

577,621. Textile Fabrics in the Piece, Made of Wool, and of Blends of Wool and Cashmere, Wool and Angora, and Wool and Nylon. Rochambeau Worsted Company, Providence, R. I.
Filed May 23, 1952, Serial No. 630,151. Published Apr. 28, 1953. Class 42.

577,622. Flow Control Valves in Lubricant Circulating Systems. United Aircraft Products, Inc., Dayton, Ohio.
Filed May 23, 1952, Serial No. 630,172. Published May 5, 1953. Class 13.

577,623. Coated Paper for Utility and Decorative Purposes as Used for Paper Covered Boxes, Book Covers, Portfolios, Catalogs, Pocket Books, Labels, Stock for General Printing, Display Papers, Greeting Cards. Springfield Coated Paper Corp., Camden, N. J., and New York, N. Y.
Filed May 24, 1952, Serial No. 630,226. Published Feb. 24, 1953. Class 37.

577,624. Cleansing Tissue and Dual Purpose Tissue for Toilet and Cleansing. The S. Kann Sons Co., Washington, D. C.
Filed May 26, 1952, Serial No. 630,273. Published Mar. 3, 1953. Class 37.

577,625. Photographic Lenses. Mycro Camera Co., Inc., New York, N. Y.
Filed May 27, 1952, Serial No. 630,336. Published Mar. 10, 1953. Class 26.

577,626. Poultry Picking Machines and Parts Thereof, Poultry Washing Machines, Receptacle Washing Machines, and Machines for Eviscerating, Washing, and Packing Poultry. Gordon Johnson Company, Kansas City, Mo.
Filed May 31, 1952, Serial No. 630,537. Published Dec. 30, 1952. Class 23.

577,627. Oil Well Tools—Namely, Drilling Hooks. Web Wilson Oil Tools, Incorporated, Gardena, Calif.
Filed June 2, 1952, Serial No. 630,640. Published Apr 21, 1953. Class 23.

577,628. Gloves Made of Canton Flannel. The Boss Manufacturing Company, Kewanee, Ill.
Filed June 4, 1952, Serial No. 630,699. Published Apr. 28, 1953. Class 39.

577,629. Card Case Containing a Tape Measure. Marie I. Sbells, Syracuse, N. Y.
Filed June 7, 1952, Serial No. 630,913. Published Mar. 10, 1953. Class 26.

577,630. Paste Paints for Interior or Exterior Use. Benjamin Moore & Co., New York, N. Y.
Filed June 10, 1952, Serial No. 631,016. Published Apr. 28, 1953. Class 16.

577,631. Printed Gummed Stamps. Nebraska State Council of Ladies Auxiliaries of the United Brotherhood of Carpenters and Joiners of America, Omaha, Nebr.
Filed June 12, 1952, Serial No. 631,117. Published Apr. 28, 1953. Class 38.

577,632. Greeting Cards, Printed Greeting Folders, Printed Seals, and Printed Decorative Tags. Norcross, Inc., New York, N. Y.
Filed Jnne 12, 1952, Serial No. 631,119. Published Apr. 28, 1953. Class 38.

577,633. Metal Pipes and Tubes. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed June 12, 1952, Serial No. 631,137. Published May 5, 1953. Class 13.

577,634. Petroleum Wax Composition Adapted for Use in the Industrial Arts. Moore & Munger, New York, N. Y.
Filed June 14, 1952, Serial No. 631,213. Published Apr. 21, 1953. Class 15.

577,635. Automatic Wire Straightening, Feeding, and Cutting Machines and Wire Reels for Supply to a Machine for Straightening Wire To Remove Bends and Kinks. Mettler Machine Tool, Inc., New Haven, Conn.
Filed June 16, 1952, Serial No. 631,246. Published Apr. 21, 1953. Class 23.

577,636. Automatic Wire Straightening, Feeding, and Cutting Machines and Wire Reels for Supply to a Machine for Straightening Wire To Remove Bends and Kinks. Mettler Machine Tool, Inc., New Haven, Conn.
Filed June 16, 1952, Serial No. 631,247. Published Apr. 21, 1953. Class 23.

577,637. Petroleum Wax Composition Adapted for Use in the Industrial Arts. Moore & Munger, New York, N. Y.
Filed June 21, 1952, Serial No. 631,562. Published Apr. 28, 1953. Class 15.

577,638. Garden Nozzles and Sprinklers, Lath House Sprinklers, Orchard Sprinklers, and Lawn Sprinklers. Irrigation Engineering & Mfg. Co., Los Angeles, Calif.
Filed June 23, 1952, Serial No. 631,623. Published Apr. 28, 1953. Class 13.

577,639. Insecticide. The Terre Co., Rochelle Park, N. J.
Filed June 24, 1952, Serial No. 631,697. Published May 5, 1953. Class 6.

577,640. Crabgrass and Weed Killer. The Terre Co., Rochelle Park, N. J.
Filed June 24, 1952, Serial No. 631,698. Published May 5, 1953. Class 6.

577,641. Chemical Additives for Oil Well Drilling Muds. Columbia-Southern Chemical Corporation, Pittsburgh, Pa.
Filed June 25, 1952, Serial No. 631,722. Published May 5, 1953. Class 6.

577,642. Cleaning Solutions and Solvents for Industrial Use. Harry H. Rogers Co. Inc., Chicago, Ill.
Filed June 26, 1952, Serial No. 631,802. Published May 5, 1953. Class 52.

577,643. Anti-Skinning Agents for Paints, Varnishes, and Enamels. Nuodex Products Co., Inc., Elizabeth, N. J.
Filed June 28, 1952, Serial No. 631,947. Published Apr. 28, 1953. Class 16.

577,644. Balances—Namely, Laboratory Balances, Analytical Balances, Micro-Balances, and Parts Thereof. Erhard Mettler, trading as E. Mettler, Fabrik für Analysenwaagen, Zurich, Switzerland.
Filed July 3, 1952, Serial No. 632,125. Published Apr. 28, 1953. Class 26.

577,645. Inflatable Boats and Inflatable Floats for Supporting a Plurality of Humans. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,306. Published May 5, 1953. Class 19.

577,646. Hair and Scalp Shampoo. The Denver Chemical Manufacturing Company, New York, N. Y.
Filed July 22, 1952, Serial No. 632,877. Published Apr. 28, 1953. Class 52.

577,647. Coated Regenerated Cellulose Casings Used for Packaging Sausage. Transparent Package Company, Chicago, Ill.
Filed July 26, 1952, Serial No. 633,129. Published Apr. 28, 1953. Class 2.



577,648. Soft and Hard Sides Men's and Women's Luggage—Namely, Overnight Cases, Etc. Ace Auto Luggage Co., Inc., New York, N. Y.
Filed July 28, 1952, Serial No. 633,137. Published Mar. 31, 1953. Class 3.

577,649. Air Control Valves, Hydraulic Valves, Pilot Operated Valves, Remote Control Valves, Remotely Controlled Pilot Operated Valves, Etc. Hannifin Corporation, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,360. Published Apr. 21, 1953. Class 13.

577,650. Medicinal Preparation Consisting of Pyrilamine Maleate and 2-Aminn-2-Methyl-1-Propanol-8-Bromotheophyllinate for the Relief of Molimina. The Wander Company, Chicago, Ill.
Filed Aug. 1, 1952, Serial No. 633,399. Published Apr. 21, 1953. Class 18.

577,651. Artificial Bait—Namely, a Spoon. Brainerd Bait Co., St. Paul, Minn.
Filed Aug. 6, 1952, Serial No. 633,528. Published May 5, 1953. Class 22.

577,652. Oscilloscopes, Magnetometers, and Signal Generators. Laboratory for Electronics, Inc., Boston, Mass.
Filed Aug. 6, 1952, Serial No. 633,543. Published Mar. 10, 1953. Class 26.

577,653. Plastic Housewares — Namely, Plates, Bowls, Tumblers, Pitchers, Salt and Pepper Shakers, and Serving Dishes. Clarence M. Burroughs, Los Angeles, Calif.
Filed Aug. 8, 1952, Serial No. 633,605. Published Apr. 28, 1953. Class 2.

577,654. Ball Pump Adapted To Inflate Balloons and the Like. Gushion B. Clark, Jr., Anderson, S. C.
Filed Aug. 11, 1952, Serial No. 633,713. Published Apr. 7, 1953. Class 23.

577,655. Books Issued in a Series Containing Stories and Information About Wild Life. Fisherman Press, Inc., Oxford, Ohio.
Filed Aug. 12, 1952, Serial No. 633,761. Published Apr. 28, 1953. Class 38.

577,656. Newspaper Column or Feature. United Newspapers Magazine Corporation, New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,804. Published Apr. 28, 1953. Class 38.

577,657. Graduated Steel Measuring Tapes. Master Rule Manufacturing Co. Inc., Middletown, N. Y.
Filed Aug. 14, 1952, Serial No. 633,940. Published Mar. 10, 1953. Class 26.

577,658. Combination Sink and Cabinets, Sink Tops and Splash Boards. Quaker Maid Kitchens, Inc., Reading, Pa.
Filed Aug. 15, 1952, Serial No. 633,998. Published Apr. 21, 1953. Class 13.

577,659. Woolen Fabrics in the Piece. Virginia Woolen Company, Winchester, Va.
Filed Aug. 16, 1952, Serial No. 634,063. Published Apr. 28, 1953. Class 42.

577,660. Optical Goods—Namely, Binoculars, Microscopes, Telescopes, and Opera Glasses. Charles T. Takahashi, doing business under the name of C. T. Takahashi & Co., Seattle, Wash.
Filed Aug. 18, 1952, Serial No. 634,127. Published Mar. 10, 1953. Class 26.

577,661. Copy Paper. Eastman Kodak Company, Rochester, N. Y., and Flemington, N. J.
Filed Aug. 20, 1952, Serial No. 634,189. Published Mar. 3, 1953. Class 37.

577,662. Fluid Flow Indicating and Recording Instruments; Flow Controllers for Automatically Maintaining at a Predetermined Given Value the Rate of Flow of a Fluid, or the Ratio, Etc. Fischer & Porter Company, Hatboro, Pa.
Filed Aug. 22, 1952, Serial No. 634,322. Published Mar. 10, 1953. Class 26.

577,663. Syphon Tubes for Irrigation and Drainage Purposes. De Roy Simpson, Tulelake, Calif.
Filed Aug. 22, 1952, Serial No. 634,349. Published Apr. 21, 1953. Class 13.

577,664. Flexible Plastic Zippered Bags for Women's Hose. Jeanne L. Pociask, doing business under the name and style of Laverne, Chicago, Ill.
Filed Aug. 26, 1952, Serial No. 634,487. Published May 5, 1953. Class 2.

577,665. Books. Avon Publishing Co., Inc., New York, N. Y.
Filed Aug. 27, 1952, Serial No. 634,518. Published May 5, 1953. Class 38.

577,666. Enamels and Paints. Marshall-Wells Company, Duluth, Minn.
Filed Aug. 29, 1952, Serial No. 634,648. Published Apr. 28, 1953. Class 16.

577,667. Organic Solvent Liquid Carriers for the Dispersion of Solid Lubricants. The AP Parts Corporation, Toledo, Ohio.
Filed Sept. 8, 1952, Serial No. 634,955. Published May 5, 1953. Class 6.

577,668. Pitching Shoes. Diamond Calk Horseshoe Co., Duluth, Minn.
Filed Sept. 8, 1952, Serial No. 634,966. Published May 5, 1953. Class 22.

577,669. Pitching Shoes. Diamond Calk Horseshoe Co., Duluth, Minn.
Filed Sept. 8, 1952, Serial No. 634,967. Published May 5, 1953. Class 22.

577,670. Universal Drafting Instrument Providing a Rule, Scale, Protractor, Triangle, Square, Straight-Edge, and the Like. Myron M. Feigenberg, doing business as Loomis Industries, Berkeley, Calif.
Filed Sept. 8, 1952, Serial No. 634,975. Published Apr. 28, 1953. Class 26.

577,671. Logarithmic Attenuators. Kalbfell Laboratories, Inc., San Diego, Calif.
Filed Sept. 9, 1952, Serial No. 635,041. Published May 5, 1953. Class 21.

577,672. Periodicals in the Nature of Trade Magazines Containing Advertising, News, and Comments on Radio Broadcasting and Television. Broadcasting Publications, Inc., Washington, D. C.
Filed Sept. 12, 1952, Serial No. 635,171. Published May 5, 1953. Class 38.

577,673. Imprinted Reflective Labels for Identification Purposes in Industrial Plants. Western Lithograph Company, Los Angeles, Calif.
Filed Sept. 12, 1952, Serial No. 635,209. Published Apr. 28, 1953. Class 38.

577,674. Daily Newspaper. Hearst Publishing Company, Inc., Los Angeles, Calif.
Filed Sept. 13, 1952, Serial No. 635,224. Published Apr. 28, 1953. Class 38.

577,675. Brassières. Munsingwear, Inc., Minneapolis, Minn.
Filed Sept. 13, 1952, Serial No. 635,230. Published Apr. 28, 1953. Class 39.

577,676. Metal Tubing. The American Brass Company, Waterbury, Conn.
Filed Sept. 26, 1952, Serial No. 635,805. Published May 5, 1953. Class 13.

577,677. Weekly Periodical. Dupuis Sons, & Co., Inc., New York, N. Y.
Filed Sept. 26, 1952, Serial No. 635,821. Published May 5, 1953. Class 38.

577,678. Medicinal Preparation in Tablet Form for Relief of Pain in Arthritis and Rheumatism. The Mara Laboratories, Inc., Harrison, N. J.
Filed Sept. 26, 1952, Serial No. 635,839. Published Apr. 28, 1953. Class 18.

577,679. Sets of Color Charts. Isabelle B. Jack, doing business as Rainbow Rembrandts Studios, Fallbrook, Calif.
Filed Sept. 30, 1952, Serial No. 635,968. Published May 5, 1953. Class 38.

577,680. Periodic Publication. Huntington Laboratories, Inc., Huntington, Ind.
Filed Oct. 1, 1952, Serial No. 636,014. Published May 5, 1953. Class 38

577,681. Mechanic Grease Cleaner. A. Maher & Son, St. Louis, Mo.
Filed Sept. 22, 1952, Serial No. 636,051. Published Apr. 28, 1953. Class 52.

577,682. Water Remoistenable Adhesive Tape. The Gummed Products Company, Troy, Ohio.
Filed Oct. 4, 1952, Serial No. 636,171. Published Apr. 28, 1953. Class 5.

577,683. Cleansing and Detergent Compound for Use in Dishwashing and Other Washing and Cleansing Operations. Calgon, Incorporated, Pittsburgh, Pa.
Filed Oct. 7, 1952, Serial No. 636,271. Published May 5, 1953. Class 52.

577,684. Staples for Use in Stapling Machines, Tagging Machines, Binding Machines, Stitching Machines, and Tacking Machines. Acme Staple Company, Camden, N. J.
Filed Oct. 10, 1952, Serial No. 636,449. Published Apr. 14, 1953. Class 13.

577,685. Series of Cartoons. Chicago Tribune-New York News Syndicate, Inc., New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,688. Published May 5, 1953. Class 38.

577,686. Floor Drains. Crampton Farley Mfg. Co., Kansas City, Mo.
Filed Oct. 17, 1952, Serial No. 636,776. Published Apr. 28, 1953. Class 13.

577,687. Microcrystalline Petroleum Waxes. Warwick Wax Co. Inc., Long Island City, N. Y.
Filed Oct. 22, 1952, Serial No. 637,013. Published Apr. 21, 1953. Class 15.

577,688. Paints. Beatrice West, New York, N. Y.
Filed Oct. 22, 1952, Serial No. 637,015. Published Apr. 28, 1953. Class 16.

577,689. Coated Abrasives. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Oct. 23, 1952, Serial No. 637,067. Published Apr. 28, 1953. Class 4.

577,690. Canned Goods—Namely, Enchiladas, Enchilada Sauce, Etc. El Chico Cafe, Dallas, Tex.
Filed Oct. 27, 1952, Serial No. 637,099. Published May 5, 1953. Class 46.

577,691. Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric. The Boss Manufacturing Company, Kewanee, Ill.
Filed Oct. 25, 1952, Serial No. 637,169. Published Apr. 28, 1953. Class 39.

577,692. Women's Apparel, Comprising Slips, Bloomers, Petticoats, Nightgowns, Pajamas, Chemises, Step-ins, Panties, and Hosiery. Seamprufe Incorporated, New York, N. Y.
Filed Oct. 25, 1952, Serial No. 637,191. Published Apr. 28, 1953. Class 39.

577,693. Cough Syrup and Cold Tablets. Howard Wong, doing business as European Coast Chemical House, New York, N. Y.
Filed Oct. 27, 1952, Serial No. 637,222. Published Apr. 28, 1953. Class 18.

577,694. Wall Paper Cleaner. The Absorene Manufacturing Company, St. Louis, Mo.
Filed Oct. 27, 1952, Serial No. 637,228. Published Apr. 28, 1953. Class 52.

577,695. Toilet Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Oct. 28, 1952, Serial No. 637,267. Published Apr. 28, 1953. Class 52.

577,696. Sound-Recording Tape for Magnetized Reproduction. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Oct. 29, 1952, Serial No. 637,319. Published May 5, 1953. Class 21.

577,697. Plasma Expander. Abbott Laboratories, North Chicago, Ill.
Filed Oct. 30, 1952, Serial No. 637,345. Published Apr. 21, 1953. Class 18.

577,698. Marionettes. Leona B. Shiba, Chicago, Ill.
Filed Oct. 30, 1952, Serial No. 637,404. Published May 5, 1953. Class 22.

577,699. Parenteral Solutions Containing Dextrose and Potassium Chloride in Various Concentrations for the Parenteral Treatment of Potassium Deficiency. Don Baxter, Inc., Glendale, Calif.
Filed Oct. 31, 1952, Serial No. 637,422. Published Apr. 21, 1953. Class 18.

577,700. Electrical and Magnetized Phonograph Records, Recording Wire, and Recording Tape. C. Schous Fabriker A/S, Copenhagen, Denmark.
Filed Oct. 30, 1952, Serial No. 637,523. Published May 5, 1953. Class 21.

577,701. Soap and Soap Preparations, Wet Cleaning Soaps and Soap Preparations; Shampoo; Sulphated Compounds for Cleaning Fabrics; Spotters and Pre-Spotters; Stripping Agents for Dry Cleaning. Caled Products Company, Inc., Brentwood, Md.
Filed Nov. 7, 1952, Serial No. 637,754. Published Apr. 28, 1953. Class 52.

577,702. Lubricating Oils and Greases. Canfield Oil Company, Cleveland, Ohio.
Filed Nov. 7, 1952, Serial No. 637,756. Published Apr. 28, 1953. Class 15.

577,703. Textile Fabrics in the Piece of Silk, Rayon, Acetate, Wool, Cotton, Linen, Spun Rayon, and/or Combinations Thereof. David Crystal, Inc., New York, N. Y.
Filed Nov. 7, 1952, Serial No. 637,760. Published Apr. 28, 1953. Class 42.

577,704. Magazine. Heli-Coil Corporation, Danbury, Conn.
Filed Nov. 8, 1952, Serial No. 637,823. Published May 5, 1953. Class 38.

577,705. Table Syrup. W. B. Roddenbery Co. Inc., doing business as Roddenbery Brothers, Cairo, Ga.
Filed Nov. 12, 1952, Serial No. 637,950. Published Apr. 28, 1953. Class 46.

577,706. Insect Repellent. McKesson & Robbins, Incorporated, New York, N. Y.
Filed Nov. 13, 1952, Serial No. 638,007. Published May 5, 1953. Class 6.

577,707. Greeting Cards. Buzza-Cardozo, Los Angeles, Calif.
Filed Nov. 15, 1952, Serial No. 638,132. Published May 5, 1953. Class 38.

577,708. Cotton Piece Goods. J. P. Stevens & Co., Inc., New York, N. Y.
Filed Nov. 15, 1952, Serial No. 638,166. Published Apr. 28, 1953. Class 42.

577,709. Composition for Cleaning and Etching Aluminum. Enthone, Incorporated, New Haven, Conn.
Filed Nov. 17, 1952, Serial No. 638,196. Published May 5, 1953. Class 52.

577,710. Isonicotinic Acid Hydrazide. Simpson Laboratories, Inc., New York, N. Y.
Filed Nov. 17, 1952, Serial No. 638,216. Published Apr. 28, 1953. Class 18.

577,711. Power Chain Saws and Parts Therefor. Turbo-Matic Chain Saws Ltd., Vancouver, British Columbia, Canada.
Filed Nov. 17, 1952, Serial No. 638,227. Published Apr. 21, 1953. Class 23.



577,712. Chemical Preparations for Exterminating Weeds. American Chemical Paint Company, Ambler, Pa.
Filed Nov. 18, 1952, Serial No. 638,234. Published May 5, 1953. Class 6.

577,713. Girls' Confirmation and Party Dresses and Christening Sets Comprising Infants' Coats, Bonnets, Dresses, and Slips. Louise Frocks, Detroit, Mich.
Filed Nov. 18, 1952, Serial No. 638,264. Published Apr. 28, 1953. Class 39.

577,714. Comic Books. Thomas De Angelo, doing business as Dean Publications, Brooklyn, N. Y.
Filed Nov. 19, 1952, Serial No. 638,286. Published Apr. 28, 1953. Class 38.

577,715. Plasticizing Compounds for Use With Resins, and Fluid Dispersions of Vinyl Resins in Plasticizers To Which Stabilizers, Color, and Filler Have Been Added. Rubber Corporation of America, Brooklyn, N. Y.
Filed Nov. 19, 1952, Serial No. 638,316. Published May 5, 1953. Class 6.

577,716. Publications Published From Time to Time, the Subject Matter of Which Is Directed to Data or Information Concerning the Metal Products Sold and Services Rendered by the Applicant. Solar Steel Corporation, Cleveland, Ohio.
Filed Nov. 19, 1952, Serial No. 638,326. Published Apr. 28, 1953. Class 38.

577,717. Pumps for Conveying Solids, Liquids, and Semi-Liquids, Centrifugal Pumps, and Sump Pumps. Yeomans Brothers Company, Chicago, Ill.
Filed Nov. 20, 1952, Serial No. 638,383. Published Apr. 21, 1953. Class 23.

577,718. Coffee. Leon Taffae Co., Inc., New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,490. Published Apr. 28, 1953. Class 46.

577,719. Monthly Magazine. Macfadden Publications, Inc., New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,491. Published Apr. 28, 1953. Class 38.

577,720. Motorized Four Wheel Vehicles for Personnel and Equipment. Mid-America Research Corporation, Wheatland, Pa.
Filed Nov. 24, 1952, Serial No. 638,545. Published May 5, 1953. Class 19.

577,721. Comic Strip. Hyman Wishengrad, doing business under the firm name and style of Editors Syndicate, New York, N. Y.
Filed Nov. 25, 1952, Serial No. 638,621. Published May 5, 1953. Class 38.

577,722. Textile Fabrics of Acetate in the Piece. French Fabrics Co., New York, N. Y.
Filed Dec. 2, 1952, Serial No. 638,843. Published Apr. 28, 1953. Class 42.

577,723. Textile Fabrics in the Piece, of Wool, Worsted, and Combinations Thereof. Leo J. Murray, doing business under the name of Hayward Woolen Co., East Douglas, Mass.
Filed Dec. 2, 1952, Serial No. 638,868. Published Apr. 28, 1953. Class 42.

577,724. Dishes, Bowls, Tumblers, Cups, Saucers, and Plates All Made of Synthetic Plastic Material. The Watertown Manufacturing Company, Watertown, Conn.
Filed Dec. 3, 1952, Serial No. 638,927. Published May 5, 1953. Class 2.

577,725. Hand Woven Woolen Tweed Piece Goods. D. A. Smith & Co., New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,084. Published Apr. 28, 1953. Class 42.

577,726. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed Dec. 9, 1952, Serial No. 639,219. Published Apr. 28, 1953. Class 42.

577,727. Window Curtains. Samuel Gotteaman, doing business as Gotteaman Bros. Co., New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,272. Published Apr. 28, 1953. Class 42.

577,728. Hair Cloth Interlining in the Piece Composed in Part of Synthetic Fibers. Andrew Y. Michie & Sons Company, Philadelphia, Pa.
Filed Dec. 10, 1952, Serial No. 639,283. Published Apr. 28, 1953. Class 42.

577,729. Piece Goods of Silk, Rayon, and of Combinations Thereof. Oriental Textiles Incorporated, New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,285. Published Apr. 28, 1953. Class 42.

577,730. Piece Goods of Cotton, Synthetic Fibers, and of Combinations Thereof. Oriental Textiles Incorporated, New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,286. Published Apr. 28, 1953. Class 42.

577,731. Woolen Piece Goods. The Warren Woolen Co., Stafford Springs, Conn.
Filed Dec. 11, 1952, Serial No. 639,351. Published Apr. 28, 1953. Class 42.

577,732. Fabrics of Silk, Wool, Cotton, Man-Made Fibers, and Combinations Thereof. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed Nov. 19, 1952, Serial No. 639,541. Published Apr. 28, 1953. Class 42.

577,733. Undulatory Merry-Go-Round. Clay E. Hurst, doing business as Hurst Company, Chincoteague, Va.
Filed Dec. 16, 1952, Serial No. 639,567. Published May 5, 1953. Class 22.

577,734. Salted and Unsalted Nuts and Peanut Butter Spread. E. F. Kemp Corp., Somerville, Mass.
Filed Dec. 23, 1952, Serial No. 639,936. Published May 5, 1953. Class 46.

577,735. Salted and Unsalted Nuts. E. F. Kemp Corp., Somerville, Mass.
Filed Dec. 23, 1952, Serial No. 639,937. Published May 5, 1953. Class 46.

577,736. Salted and Unsalted Nuts and Peanut Butter Spread. E. F. Kemp Corp., Somerville, Mass.
Filed Dec. 23, 1952, Serial No. 639,938. Published May 5, 1953. Class 46.

577,737. Alphabetical Toy Blocks. Adventure Toys, Palo Alto, Calif.
Filed Dec. 18, 1952, Serial No. 640,029. Published May 5, 1953. Class 22.

577,738. Alkyls. Resyn Corporation of America, Linden, N. J.
Filed Jan. 7, 1953, Serial No. 640,542. Published May 5, 1953. Class 6.

577,739. Fishing Tackle—Namely, Artificial Baits or Lures, Including Metal Lures Which Are Generally Termed Dodgers, Spoons, and Spinners. Lester M. Davis, doing business as Davis Fishing Tackle Co., Tacoma, Wash.
Filed Jan. 13, 1953, Serial No. 640,674. Published May 5, 1953. Class 22.

577,740. p-Chlorophenyl p-Chlorobenzenesulfonate Used Principally as an Ingredient of Parasiticidal Compositions. The Dow Chemical Company, Midland, Mich.
Filed Jan. 26, 1953, Serial No. 641,279. Published May 5, 1953. Class 6.

577,741. Fresh Vegetables. Cal-Bert Shippers, Inc., Los Angeles, Calif.
Filed Feb. 2, 1953, Serial No. 641,604. Published Apr. 28, 1953. Class 46.

577,742. Fresh Vegetables. Roll Packing House, Chula Vista, Calif.
Filed Feb. 6, 1953, Serial No. 641,862. Published Apr. 28, 1953. Class 46.

577,743. Artificial Fish Lures. Elizabeth S. Scanlan, doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo.
Filed Jan. 26, 1953, Serial No. 642,507. Published May 5, 1953. Class 22.

577,744. Fishing Lines. Cortland Line Company, Inc., Cortland, N. Y.
Filed Feb. 25, 1953, Serial No. 642,732. Published May 5, 1953. Class 22.

577,745. Bubble Pipes. Bubble-O-Bill Corporation, Los Angeles, Calif.
Filed Mar. 3, 1953, Serial No. 643,026. Published May 5, 1953. Class 22.

### Service Marks

577,746. Technical Services Rendered to Industry in the Testing of Materials and the Design and Operation of Chemical Plants. Monsanto Chemical Company, St. Louis, Mo.
Filed Jan. 21, 1940, Serial No. 572,510. Published May 5, 1953. Class 100.

577,747. Research in the Fields of Metallurgy and Mineralogy. Karl Schaffer, Jr., doing business under the name and style of Titanium Research Company, New York, N. Y.
Filed Mar. 9, 1951, Serial No. 611,109. Published Apr. 28, 1953. Class 100.

577,748. Treating Dyed Acetate Fabrics of Others so That the Dyes Applied Thereto Will Be Fixed and Durable Against Fading or Color Change Resulting From Perspiration, Light, Gas, Laundering, and Crocking. Triangle Finishing Corp., Johnstown, N. Y.
Filed Mar. 15, 1951, Serial No. 611,385. Published Apr. 28, 1953. Class 106.

577,749. Engraving, Etching, and Preparing by Related Processes Printing Plates for Others To Be Used in Reproducing Pictures and Other Illustrative Material in Publications. McCall Corporation, New York, N. Y.
Filed June 28, 1951, Serial No. 615,840. Published May 5, 1953. Class 106.

577,750. Instructing in the Field of Religion, Philosophy, and Metaphysics by Means of a Correspondence Course. The American School of Metaphysics, Santa Monica, Calif., and West Nyack, N. Y.
Filed Dec. 28, 1951, Serial No. 622,916. Published Apr. 28, 1953. Class 107.

577,751. Providing Entertainment Services in the Nature of Concerts Performed Under Sponsorship of Local Civic, Fraternal, and Business Organizations. Mildred Teal Mills, doing business under the name and style of The Mildred Teal Mills Greater Artist Series, Wenatchee, Wash.
Filed July 2, 1952, Serial No. 632,094. Published May 5, 1953. Class 107.

577,752. Entertainment Service in the Nature of an Audience Participation Quiz Television Program. Lewis & Clark, Inc., Chicago, Ill.
Filed June 25, 1952, Serial No. 631,743. Published Apr. 28, 1953. Class 107.

577,753. Dyeing and Finishing Fabrics To Make Them Crease Resistant. Hull Dye Works, Derby, Conn.
Filed July 23, 1952, Serial No. 632,939. Published Apr. 28, 1953. Class 106.

577,754. Entertainment Services Comprising the Production of Dramatic Mystery Presentations Performed on Stage and Screen. Max M. Jacobs, doing business as Midnight Attractions, Cleveland, Ohio.
Filed Aug. 26, 1952, Serial No. 634,471. Published May 5, 1953. Class 107.

577,755. Finishing of Textile Fabrics or the Like To Increase Their Abrasion Resistance. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Sept. 10, 1952, Serial No. 635,106. Published Apr. 28, 1953. Class 106.

577,756. Finishing of Textile Fabrics or the Like for the Production of Texturized Effects Therein. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,204. Published Apr. 28, 1953. Class 106.

577,757. Underwriting of Insurance Risks—Namely, Automobile Insurance (Fire, Theft, Property Damage, Personal Liability, Etc.). Allstate Insurance Company, Chicago, Ill.
Filed Mar. 8, 1952, Serial No. 626,132. Published Apr. 28, 1953. Class 102.

577,758. Gasoline Filling Station Services—Namely, Lubrication and Washing of Motor Vehicles. Farris C. Lind, Boise, Idaho.
Filed May 28, 1952, Serial No. 630,420. Published Apr. 28, 1953. Class 103.

### Certification Mark

577,759. Dry Cleaning of Fabrics. Union Oil Company of California, Los Angeles, Calif.
Filed Dec. 26, 1951, Serial No. 622,872. Published May 5, 1953. Class 103.

### Collective Mark

577,760. Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein. Kappa Sigma Fraternity, Carmel, Calif.
Filed Oct. 29, 1951, Serial No. 620,605. Published Apr. 28, 1953. Class 106.

## ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

577,761. (Class 47. Wines.) Motta, S. P. A., Milan, Italy. Original filed, act of 1946, Principal Register, Dec. 20, 1948; amended to application, Supplemental Register, Dec. 19, 1950, Serial No. 570,867.

Motta

Applicant claims ownership of Italian Registration No. 90,642, dated Dec. 26, 1944, and United States Registrations Nos. 317,617 and 315,833.
For Wines.

577,762. (Class 49. Distilled Alcoholic Liquors.) Motta, S. P. A., Milan, Italy. Original filed, act of 1946, Principal Register, Dec. 20, 1948; amended to application, Supplemental Register, Dec. 19, 1950, Serial No. 570,868.

Motta

Applicant claims ownership of Italian Registration No. 90,642, dated Dec. 26, 1944, and United States Registrations Nos. 317,617 and 315,833.
For Alcoholic Liqueurs and Cordials.



577,763. (Class 49. Distilled Alcoholic Liquors.) Federal Liquors Ltd., Boston, Mass., by mesne assignments, from William Zakon & Sons, doing business as C. H. Graves & Sons Co. Original filed, act of 1946, Principal Register, Mar. 15, 1949; amended to application, Supplemental Register, May 6, 1952, Serial No. 575,510.

ICE BOX

Applicant claims ownership of Registration No. 544,437.
For Manhattan and Martini Cocktails.
Claims use since Feb. 23, 1949.

577,764. (Class 39. Clothing.) Donel Foundations, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 18, 1949; amended to application, Supplemental Register, Oct. 25, 1950, Serial No. 582,128.

SMALL WONDER

For Women's Foundation Garments.
Claims use since Apr. 15, 1949.

577,765. (Class 32. Furniture and Upholstery.) Automatic Bedding Corporation, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Sept. 28, 1949; amended to application, Supplemental Register, Mar. 6, 1952, Serial No. 585,417.

NEV-A-SAG

For Folding Beds, Studio Couches, Mattresses, and Bed Springs.
Claims use since May 12, 1949.

577,766. (Class 39. Clothing.) Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Original filed, act of 1946, Principal Register, Dec. 22, 1949; amended to application, Supplemental Register, Oct. 27, 1950, Serial No. 589,797.

WEATHERPROOFS

For Footwear Made of Rubber and of Combinations of Rubber and Fabric and of Rubber and Leather—Namely, Boots, Rubbers, Overshoes, Wading Boots, Arctics, and Gaiters for Men, Women, and Children.
Claims use since Oct. 18, 1949.

577,767. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Taylor-Winfield Corporation, Warren, Ohio. Original filed, act of 1946, Principal Register, Dec. 30, 1949; amended to application, Supplemental Register, Dec. 17, 1952, Serial No. 590,189.

Seal-Off

For Solenoid-Operated Air Valves.
Claims use since Apr. 1, 1949.

577,768. (Class 39. Clothing.) Sun Fashions of Hawaii, Honolulu, Territory of Hawaii. Original filed, act of 1946, Principal Register, Mar. 24, 1950; amended to application, Supplemental Register, Aug. 15, 1952, Serial No. 594,594.

"Sun Fashions of Hawaii"

For Shirts, Dresses, Housecoats, Sarongs, Swim Suits, Scarfs, Blouses, and Jackets for Women, and Swim Suits, Swim Trunks, Shirts, and Shirt and Short Combinations for Men.
Claims use since Dec. 7, 1949.

577,769. (Class 39. Clothing.) Alamac Knitting Mills, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 26, 1950; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 599,736.

BABY-BODY-BREATHES

For Baby Panties, Baby Bloomers, Creepers.
Claims use since May 9, 1950.

577,770. (Class 21. Electrical Apparatus, Machines, and Supplies.) Crest Electric Mfg. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, June 29, 1950; amended to application, Supplemental Register, July 7, 1951, Serial No. 599,931.

LAMPSAVER

For Voltage Reducer Insertable in Electric Lamp Sockets.
Claims use since June 1949.

577,771. (Class 50. Merchandise Not Otherwise Classified.) Sur-Grip, Inc., Forest Hills, N. Y., by change of name from Hangers for Pants, Inc. Original filed, act of 1946, Principal Register, July 24, 1950; amended to application, Supplemental Register, Nov. 1, 1952, Serial No. 601,146.

"Sur-Grip"

For Clothes Hangers.
Claims use since June 23, 1950.

577,772. (Class 32. Furniture and Upholstery.) To-Day's House, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 17, 1950; amended to application, Supplemental Register, Dec. 23, 1952, Serial No. 602,347.

today's house

For Furniture—Namely, Chairs, Loveseats, Sofas, Benches, Tables, Night Stands, Storage Cases, Buffets, Headboards, Day Beds, Ottomans, Stools, Desks, Bookcases, Chests of Drawers.
Claims use since Mar. 3, 1949.

577,773. (Class 49. Distilled Alcoholic Liquors.) Rabarzucca S. R. L., Milan, Italy. Original filed, act of 1946, Principal Register, Oct. 3, 1950; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 604,388.

RABARBARO ZUCCA

Applicant claims ownership of Italian Registration No. 85,174, dated Jan. 20, 1949.
For Alcoholic Rhubarb Beverage Obtained by Infusion From Rhubarb.

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577,774. (Class 26. Measuring and Scientific Appliances.) Service Manufacturing Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1950; amended to application, Supplemental Register, Oct. 26, 1951, Serial No. 606,335.

The Kam-ra Bag

Applicant claims ownership of Registration No. 383,959.
For Leather Bag Case for Carrying Photographic Camera and Equipments.
Claims use since Aug. 3, 1950.

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577,775. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Electric Steel Foundry, Portland, Oreg. Original filed, act of 1946, Principal Register, Jan. 27, 1951; amended to application, Supplemental Register, May 15, 1953, Serial No. 609,338.

LINK-LOCK

For Butt Chains Usable in Logging Operations.
Claims use since April 1949.

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577,776. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sunray Electric, Inc., Warren, Pa. Original filed, act of 1946, Principal Register, Feb. 13, 1951; amended to application, Supplemental Register, June 14, 1952, Serial No. 610,035.

RIP-L-LITE

For Fluorescent Lamps.
Claims use since November 1948.

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577,777. (Class 21. Electrical Apparatus, Machines, and Supplies.) Monowatt Incorporated, Providence, R. I., assignor to General Electric Company, a corporation of New York. Original filed, act of 1946, Principal Register, Mar. 13, 1951; amended to application, Supplemental Register, Oct. 10, 1952, Serial No. 611,235.

IMPROV-A-LITE

For Portable Lamp Wiring Kits Comprising a Socket, a Harp, a Cord and an Attachment Plug.
Claims use since October 1950.

577,778. (Class 21. Electrical Apparatus, Machines, and Supplies.) Vitalic Battery Company, Inc., Dallas, Tex. Original filed, act of 1946, Principal Register, Mar. 28, 1951; amended to application, Supplemental Register, Mar. 21, 1952, Serial No. 611,925.

Plastiglas

Applicant claims ownership of Registrations Nos. 502,056 and 505,122.
For Storage Batteries.
Claims use since Mar. 16, 1951.

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577,779. (Class 48. Malt Beverages and Liquors.) J. R. Short Milling Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 5, 1951; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 612,277.

READIFLAKES

For Cereal Flakes Used in the Preparation of Beer.
Claims use since Sept. 14, 1927.

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577,780. (Class 39. Clothing.) Cutter Cravat, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 26, 1951; amended to application, Supplemental Register, Apr. 21, 1953, Serial No. 613,164.

Artist Original

For Cravats, Neckties, Mufflers, and Necktie and Handkerchief Sets for Men and Boys.
Claims use since Apr. 1, 1950.

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577,781. (Class 32. Furniture and Upholstery.) Ajusto Equipment Co., Toledo, Ohio. Original filed, act of 1946, Principal Register, May 11, 1951; amended to application, Supplemental Register, Apr. 16, 1953, Serial No. 613,752.

AJUSTRITE

For Stools and Chairs.
Claims use since as early as Dec. 16, 1950.

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577,782. (Class 18. Medicines and Pharmaceutical Preparations.) Willard B. Ault, Chattanooga, Tenn. Original filed, act of 1946, Principal Register, May 21, 1951; amended to application, Supplemental Register, May 22, 1952, Serial No. 614,127.

WART-OFF

For Liquid Medicine for Warts.
Claims use since Feb. 28, 1951.



577,783. (Class 18. Medicines and Pharmaceutical Preparations.) Edward E. Murray, doing business under the name of Yager Drug Company, Baltimore, Md., assignor to Yager Drug Company, a corporation of Maryland. Original filed, act of 1946, Principal Register, July 9, 1951; amended to application, Supplemental Register, May 13, 1953, Serial No. 616,235.

OAK 'N IVY

For Medicinal Lotion for Relief of Poison Ivy, Poison Oak and Poison Sumac.
Claims use since June 4, 1951.

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577,784. (Class 46. Foods and Ingredients of Foods.) Kings Food Products, San Francisco, Calif., assignee of Kings County Packing Company, Ltd. Original filed, act of 1946, Principal Register, Aug. 7, 1951; amended to application, Supplemental Register, Mar. 20, 1953, Serial No. 617,405.

Sac-a-Rin

For Canned Fruits for Dietetic Use, Without Added Sugar.
Claims use since January 1931.

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577,785. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Radiator Specialty Company, Charlotte, N. C. Original filed, act of 1946, Principal Register, Aug. 24, 1951; amended to application, Supplemental Register, Oct. 3, 1952, Serial No. 618,055.

TITE-SEAL

Applicant claims ownership of Registration No. 411,490.
For Flush Tank Balls.
Claims use since July 18, 1951.

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577,786. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Marshall Steffenson, Trustee—Louisiana, Hagerstown, Ind. Original filed, act of 1946, Principal Register, Sept. 8, 1951; amended to application, Supplemental Register, Mar. 11, 1953, Serial No. 618,558.

FLUSH-FLO

For Oil Well Pumps.
Claims use since Mar. 19, 1951.

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577,787. (Class 21. Electrical Apparatus, Machines, and Supplies.) Maschinenfabrik Oerlikon, Zurich, Switzerland. Original filed, act of 1946, Principal Register, Sept. 13, 1951; amended to application, Supplemental Register, June 13, 1952, Serial No. 618,750.

OERLIKON ENGINEERING

Priority under Sec. 44(d). Swiss application No. 137,730, filed Apr. 21, 1951, Registration No. 137,730, dated Apr. 21, 1951.
For Electric Generators and Motors, Transformers, Induction Regulators, Converter Groups, Single Armature Converters, Electric Switch-Gear Installations, Switches, Relays, Starters, Regulators, Current and Voltage Transformers, High Tension Safety Fuses, Lightening Arresters, Insulators, Rectifiers, Electrolytic Apparatus for the Decomposition of Water, Electric Locomotives, Turbo-Generators, Electric Blowers for Supplying Compressed Air.

577,788. (Class 39. Clothing.) I. B. Kleinert Rubber Company, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 15, 1951; amended to application, Supplemental Register, June 3, 1953, Serial No. 618,856.

WAIST-IN

For Girdle.
Claims use since Sept. 7, 1951.

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577,789. (Class 39. Clothing.) Aahear Bros., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 21, 1951; amended to application, Supplemental Register, Mar. 12, 1953, Serial No. 619,065.

TIE MATCHERS

For Handkerchiefs.
Claims use since Sept. 12, 1951.

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577,790. (Class 40. Fancy Goods, Furnishings, and Notions.) Tor Hogberg, doing business under the name of Florence Beauty Parlor, Norwood, N. J. Original filed, act of 1946, Principal Register, Nov. 19, 1951; amended to application, Supplemental Register, May 6, 1953, Serial No. 621,405.

Will Stay

For Bob Pins.
Claims use since Sept. 20, 1951.

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577,791. (Class 47. Wines.) Denois & Huppert Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 26, 1951; amended to application, Supplemental Register, May 18, 1953, Serial No. 622,813.

J. BOISSIERE



The lining on the drawing is for shading purposes only.
For Vermouth.
Claims use since July 28, 1950.

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577,792. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Charles M. Zerr, doing business as Zerr Industries, Independence, Mo. Original filed, act of 1946, Principal Register, Jan. 7, 1952; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 623,292.

Clipline

For Clip Mounted Rods for Attachment to a Supporting Surface for Hanging Clothing and Other Articles.
Claims use since Dec. 18, 1951.

577,793. (Class 12. Construction Materials.) Hollywood Disappearing Attic Stair Co., Dallas, Tex. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, Feb. 3, 1953, Serial No. 625,104.

HOLLYWOOD

For Folding Stairways.
Claims use since Jan. 15, 1951.

577,794. (Class 38. Prints and Publications.) Linton Publishing Company, Reno, Nev. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, May 21, 1953, Serial No. 625,111.

Linton



For Books in a Series for the Teaching of Shorthand.
Claims use since October 1951.

577,795. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Fine Art Pillow & Specialties Co., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 27, 1952; amended to application, Supplemental Register, Feb. 4, 1953, Serial No. 625,588.

DRI-Quilt

For Heat Sealed Vinyl Plastic Sheet Material, Consisting of Top and Bottom Plastic Sheets With Cotton Wadding Therebetween, Electronically Bonded To Simulate Quilting.
Claims use since Dec. 20, 1951.

577,796. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) National Sure-Fit Quilting Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 18, 1952; amended to application, Supplemental Register, Apr. 13, 1953, Serial No. 626,635.

Tuk-Tite

For Quilted Mattress Pads and Protectors.
Claims use since Feb. 25, 1952.

577,797. (Class 36. Musical Instruments and Supplies.) Wm. Kratt Co., Union, N. J. Original filed, act of 1946, Principal Register, Mar. 24, 1952; amended to application, Supplemental Register, May 29, 1953, Serial No. 626,945.

Mello-Chromatic

For Harmonicas.
Claims use since Oct. 15, 1948.

577,798. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Jefferson Co., Inc., Miami, Fla. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, May 5, 1953, Serial No. 628,109.

VANDERBILT

For Television Receiving Sets.
Claims use since Mar. 22, 1952.

577,799. (Class 45. Soft Drinks and Carbonated Waters.) Thomas J. Moore, doing business as Thomas Moore & Co., Minneapolis, Minn. Original filed, act of 1946, Principal Register, May 7, 1952; amended to application, Supplemental Register, Nov. 12, 1952, Serial No. 629,312.

Drisoda

For Non-Alcoholic, Non-Cereal, Maltless Soft Drinks, and Syrup for Making Same.
Claims use since June 1, 1948.

577,800. (Class 15. Oils and Greases.) The Haynes Manufacturing Co., Cleveland, Ohio. Original filed, act of 1946, Principal Register, May 17, 1952; amended to application, Supplemental Register, Apr. 14, 1953, Serial No. 629,853.

Slip

For Water-Soluble Soap Lubricant for Conveyor Chains.
Claims use since Apr. 1, 1952.

577,801. (Class 21. Electrical Apparatus, Machines, and Supplies.) Jubilee Manufacturing Company, doing business as Kattle Kaller Division, Omaha, Nebr. Original filed, act of 1946, Principal Register, May 19, 1952; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 629,898.

Kattle Kaller

For Electrical Horns.
Claims use since Aug. 14, 1949.



577,802. (Class 46. Foods and Ingredients of Foods.) Charles J. Weidner, doing business under the name Weidner Canning Company, Plymouth, Ind. Original filed, act of 1946, Principal Register, May 24, 1952; amended to application, Supplemental Register, May 18, 1953, Serial No. 630,248.

Weidner's

For Pickles, Pickle Relish, and Peppers.
Claims use since Mar. 1, 1952.

577,803. (Class 46. Foods and Ingredients of Foods.) Select Citrus Growers, Inc., Fullerton, Calif. Original filed, act of 1946, Principal Register, May 27, 1952; amended to application, Supplemental Register, May 21, 1953, Serial No. 630,352.

FLAVOR RICH

For Fresh Oranges.
Claims use since May 3, 1952.

577,804. (Class 21. Electrical Apparatus, Machines, and Supplies.) Kingston Products Corporation, Kokomo, Ind. Original filed, act of 1946, Principal Register, June 2, 1952; amended to application, Supplemental Register, May 14, 1953, Serial No. 630,601.

Douglas

For Electric Vacuum Cleaners.
Claims use since Apr. 9, 1952.

577,805. (Class 19. Vehicles.) Glenn A. Steven, doing business under the firm name Steven Motor Chair Co., Kansas City, Kans. Original filed, act of 1946, Principal Register, July 18, 1952; amended to application, Supplemental Register, May 27, 1953, Serial No. 632,757.

Steven

For Motor-Propelled Chair Vehicles.
Claims use since on or about Mar. 1, 1948.

577,806. (Class 10. Fertilizers.) American Chemical Paint Company, Ambler, Pa. Original filed, act of 1946, Principal Register, July 19, 1952; amended to application, Supplemental Register, Jan. 12, 1953, Serial No. 632,771.

SEEDTONE

For Plant Stimulant.
Claims use since Oct. 31, 1950.

577,807. (Class 49. Distilled Alcoholic Liquors.) A. & A. Crawford Limited, Leith, Scotland. Original filed, act of 1946, Principal Register, July 28, 1952; amended to application, Supplemental Register, Jan. 22, 1953, Serial No. 633,144.




The facsimile signature "A. & A. Crawford Ltd." appearing in the mark is in the handwriting of David Ireland, a partner in the former firm of A. & A. Crawford, a predecessor in business of applicant. Applicant claims ownership of Registrations Nos. 307,429 and 309,471.

For Scotch Whisky.
Claims use since May 29, 1951, in Great Britain; and since June 30, 1951, in commerce between Great Britain and the United States.

577,808. (Class 6. Chemicals and Chemical Compositions.) Kindle-Kwik, Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 23, 1952; amended to application, Supplemental Register, Mar. 9, 1953, Serial No. 634,373.

Kindle-kwiK

For Combustible Scented Material Used for Starting Fires and for Use as Emergency Flares and Like Purposes.
Claims use since Nov. 5, 1951.

577,809. (Class 39. Clothing.) A. Sagner's Son, Baltimore, Md. Original filed, act of 1946, Principal Register, Sept. 5, 1952; amended to application, Supplemental Register, May 18, 1953, Serial No. 634,921.

Haifa Weave

For Men's Suits, Coats, Slacks, Trousers, Topcoats, Sport Coats, Neckties, Sport, Dress, and Work Shirts; Women's Suits, Coats, Slacks, Jackets, and Skirts.
Claims use since April 1952.

577,810. (Class 39. Clothing.) Laskin Brothers, Inc., Philadelphia, Pa. Filed Nov. 14, 1952, Serial No. 638,088.

Super JAMAS

For Women's, Misses', and Girls' Pajamas.
Claims use since on or about Aug. 4, 1950.

577,811. (Class 22. Games, Toys, and Sporting Goods.) Barney B. Girden, doing business as Bat Bak, New York, N. Y. Filed Dec. 30, 1952, Serial No. 640,156.

**BAT BAK**

For Collapsible Table-Tennis Game Apparatus Having Horizontal, Angle and Back Boards.
Claims use since July 1, 1941.

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577,812. (Class 46. Foods and Ingredients of Foods.) Carl Larssons Slakteri AB, Stockholm, Sweden. Original filed, act of 1946, Principal Register, Nov. 28, 1952; amended to application, Supplemental Register, May 22, 1953, Serial No. 640,248.



**ULRIKSDAL BRAND**

The word "Brand" is disclaimed apart from the mark shown in the drawing. Priority under Sec. 44(d). Swedish application filed June 10, 1952, Reg. No. 72,725, dated Oct. 3, 1952.
For Canned Ham.

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577,813. (Class 1. Raw or Partly Prepared Materials.) Harry T. Campbell Sons' Corp., Towson, Md. Filed Jan. 12, 1953, Serial No. 640,606.

**BARN SNOW**

KEEPS BARN HEAT — COWS ON FEET

For Calcite Preparation Consisting of Dry Ground Limestone Used in Dairy Barns as a Bedding for Cows and To Prevent Cows From Slipping.
Claims use since Nov. 1, 1950.

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577,814. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Modern Sales Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 19, 1953; amended to application, Supplemental Register, May 18, 1953, Serial No. 640,951.

**Mr. Bar Swivel**

Applicant claims ownership of Registration No. 442,976.
For Long Handled Spoon of Base Metal Specially Designed for Rotating in a Circular Motion for Stirring Any Iced Drinks.
Claims use since Jan. 7, 1949.

577,815. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Modern Sales Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 19, 1953; amended to application, Supplemental Register, May 18, 1953, Serial No. 640,952.

**Mr. Pic-stir**

Applicant claims ownership of Registration No. 442,976.
For Packaged Set Containing a Long Handled Spoon Specially Designed for Rotating in Circular Motion for Stirring Any Iced Drinks, and a Matching Cocktail Pick or Fork, Both of Base Metal.
Claims use since May 10, 1949.

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577,816. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Aldens, Inc., Chicago, Ill. Filed Feb. 12, 1953, Serial No. 642,110.

**Aldens**

For Interior and Exterior Ready-Mixed Paints, Enamels, and Varnishes.
Claims use since Dec. 3, 1951.

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**Collective Mark**

577,817. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Irish Linen Guild, Belfast, Northern Ireland. Original filed, act of 1946, Principal Register, June 22, 1951; amended to application, Supplemental Register, Feb. 19, 1953, Serial No. 615,556.

IRISH LINEN
LOVELY · LASTING · ECONOMICAL

For Irish Linen Piece Goods, Table Cloths, Naokins, Church Linens, and Art Linens.
Claims use since Oct. 19, 1949, and first used in commerce among the several States of the United States on Dec. 4, 1950.

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## TRADE-MARK REGISTRATIONS RENEWED

39,763. VENUS. Registered Feb. 10, 1903. The Procter & Gamble Co., Cincinnati and Ivorydale, Ohio. Renewed Feb. 10, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Seed-Oils and Seed Products. Class 46.

40,019. REXALL. Registered Mar. 31, 1903. United Drug Company, Jersey City, N. J., and Boston, Mass. Re-renewed Mar. 31, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Dyspepsia-Tablets. Class 18.



40,211. REPRESENTATION OF QUARTER MOON AND STAR. Registered Apr. 28, 1903. Thomas Dade Luckett, Clarksville, Tenn. Re-renewed Apr. 28, 1953, to Luckett-Wake Tobacco Co., Inc., Louisville, Ky., a corporation of Kentucky. Leaf-Tobacco. Class 17.

40,998. DIOXOGEN. Registered Aug. 25, 1903. The Oakland Chemical Company. Re-renewed Aug. 25, 1953, to The Oakland Chemical Company, Inc., New York, N. Y., a corporation of New York. Antiseptic and Disinfectant Compounds. Class 18.

90,763. REXALL. Registered Mar. 18, 1913. United Drug Company, Boston, Mass. Re-renewed Mar. 18, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Mosquito-Repelling Preparation. Class 6.

91,315. BATHODOMES. Registered Apr. 29, 1913. H. Bronnley & Co., Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Apr. 29, 1953. Perfumed Soap. Class 52.

91,362. V A C. Registered Apr. 29, 1913. Mishawaka Woolen Manufacturing Co. Re-renewed Apr. 29, 1953, to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a corporation of Indiana. Rubber Boots and Shoes, as Well as Boots and Shoes Formed Principally of Rubber and Partially of Wool, Cotton, Linen, or Silk. Class 39.

91,364. SOLITAIRE. Registered Apr. 29, 1913. The Morey Mercantile Company. Re-renewed Apr. 29, 1953, to Morey Mercantile Company, Denver, Colo., a corporation of Colorado. Canned Fruits and Vegetables, Preserved Fruits, Jams, Marmalades, Etc. Class 46.

91,451. "FEN O LYM" AND DESIGN. Registered May 6, 1913. Ball Chemical Company, Pittsburgh, Pa., a corporation of Pennsylvania. Re-renewed May 6, 1953. Preparations for Removing Paint and Other Coatings From Metal and Other Surfaces. Class 52.

91,506. "N" AND DESIGN. Registered May 6, 1913. Thomas F. Nevins, Brooklyn and New York, N. Y., and Merritt, Fla. Re-renewed May 6, 1953, to Nevins Fruit Co., Inc., Titusville, Fla., a corporation of New York. Fresh Fruit. Class 46.

92,551. REPRESENTATION OF SCONCE. Registered July 15, 1913. Hamburg-Amerikanische Uhrenfabrik. Re-renewed July 15, 1953, to Gebruder Junghans Aktiengesellschaft, Schramberg, Germany, a corporation organized under the laws of Germany. Clocks and Parts Thereof. Class 27.

92,577. PREMAX. Registered July 15, 1913. Plymouth Cordage Company, Plymouth, Mass., a corporation of Massachusetts. Re-renewed July 15, 1953. Fibrous and Textile Rope and Twine. Class 7.

92,598. STORMOGRAPH. Registered July 15, 1913. Taylor Instrument Companies, Rochester, N. Y., a corporation of New York. Re-renewed July 15, 1953. Recording Barometers. Class 26.

92,718. GOLDEN RIBBON. Registered July 22, 1913. Joseph E. Rosenfeld, Council Bluffs, Iowa. Re-renewed July 22, 1953, to Joseph E. Rosenfeld, Beverly Hills, Calif. Non-Alcoholic Tonic Malt Beverage. Class 45.

93,069. REPRESENTATION OF TWO LETTERS "B." Registered Aug. 19, 1913. Boonton Rubber Manufacturing Company, Boonton, N. J. Re-renewed Aug. 19, 1953, to Tech-Art Plastics Company Incorporated, Morristown, N. J., a corporation of New Jersey. Molded Electrical Insulators. Class 21.

93,137. UARCO. Registered Aug. 19, 1913. United Autographic Register Company. Re-renewed Aug. 19, 1953, to Uarco Incorporated, Chicago, Ill., a corporation of Illinois. Autographic Registers, Paper Holders and Guides, Ribbon Holders and Guides for Type-Writers and Autographic Registers. Class 23.

93,435. "MYRTLE" AND DESIGN. Registered Sept. 16, 1913. Fidalgo Island Packing Co., Anacortes, Wash. Re-renewed Sept. 16, 1953, to Fidalgo Island Packing Company, Seattle, Wash., a corporation of Maine. Canned Salmon. Class 46.

93,525. COTTON CHATS. Registered Sept. 23, 1913. Draper Company, Portland, Maine, and Hopedale, Mass. Re-renewed Sept. 23, 1953, to Draper Corporation, Hopedale, Mass., a corporation of Maine. Periodical or Magazine Devoted to Textile and Allied Subjects. Class 38.

93,631. VECTO. Registered Oct. 7, 1913. J. A. Folger & Company, Kansas City, Mo., a corporation of Nevada. Re-renewed Oct. 7, 1953. Coffee. Class 46.

93,782. BUCILLA. Registered Oct. 14, 1913. Bernhard Ulmann & Co., New York, N. Y. Re-renewed Oct. 14, 1953, to Bernhard Ulmann Co. Inc., Long Island City, N. Y., a corporation of New York. Yarns for Embroidering, Sewing, Knitting, Lace-Making, Weaving, Braiding, and Crocheting. Class 43.

300,414. "TROPICLOTH" AND DESIGN LINED FOR RED. Registered Jan. 17, 1933. Pacific Wire Products Company, Los Angeles, Calif. Renewed Jan. 17, 1953, to Pacific Wire Products Company, Compton, Calif., a corporation of California. Tinned Bronze Wire Insect Screening. Class 13.

300,503. REPRESENTATION OF MAN WITH BOAT AND PADDLE. Registered Jan. 24, 1933. A. Holander & Son, Inc., Newark, N. J., a corporation of Delaware. Renewed Jan. 24, 1953. Fur Skins. Class 1.

301,121. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Wire Ropes and Cables. Class 7.

301,633. BINACA. Registered Mar. 7, 1933. Society of Chemical Industry in Basle. Renewed Mar. 7, 1953, to Ciba Limited, Basel, Switzerland, a corporation organized under the laws of Switzerland. Tooth Paste. Class 51.

302,398. FLOTOX. Registered Apr. 18, 1933. California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Renewed Apr. 18, 1953, to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware. Flotation Sulphur. Class 6.

302,424. YEAST-VITE COMPOUND. Registered Apr. 18, 1933. Yeast-Vite (U. S. A.) Inc., Niagara Falls, N. Y. Renewed Apr. 18, 1953, to Yeast-Vite (U. S. A.) Inc., Bloomfield, N. J., a corporation of New York. Tonic Intended for the Relief of Headache and Nerve Pains. Class 18.

302,432. "PDQ OIL GAS" AND DIAMOND DESIGN. Registered Apr. 18, 1933. Producers Diamond Quality Oil & Gas Co., Topeka, Kans. Renewed Apr. 18, 1953, to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware. Motor Fuel Oils, Lubricating Oils, Lubricating Greases, Etc. Class 15.

302,586. KUSHION AIRE. Registered Apr. 25, 1933. Chippewa Shoe Manufacturing Company, doing business as Kushion-Aire Shoe Company, Chippewa Falls, Wis. Renewed Apr. 25, 1953, to Walk-Easy Foot Rest Manufacturing Company, St. Louis, Mo., a corporation of Missouri. Shoes Made of Leather, Fabric, or Combinations of These Materials and Combinations of These Materials and Rubber. Class 39.

302,732. FARLITE. Registered Apr. 25, 1933. Farley & Loetscher Manufacturing Company, Dubuque, Iowa, a corporation of Iowa. Renewed Apr. 25, 1953. Doors, Structural Panels, Panel Stock, Moldings, Etc. Class 12.

303,051. FAVORITE. Registered May 9, 1933. The Page Milling Company, Luray, Va., a corporation of Virginia. Renewed May 9, 1953. Poultry, Turkey, and Stock Feeds. Class 46.

303,120. SPEKKER. Registered May 9, 1933. Adam Hilger, Limited. Renewed May 9, 1953, to Hilger & Watts Limited, London, England, a company organized under the laws of Great Britain. Polarimeters, Spectroscopes, and Colorimeters. Class 26.

303,222. REPRESENTATION OF IMP. Registered May 16, 1933. The British Vacuum Cleaner & Engineering Co. Ltd., London, England. Renewed May 16, 1953, to The British Vacuum Cleaner & Engineering Co. Ltd., Leatherhead, England, a corporation organized under the laws of Great Britain. Suction Cleaning Machines for Carpets, Floors, Etc. Class 23.

303,253. SENGWEE. Registered May 16, 1933. The Seng Company, Chicago, Ill., a corporation of Illinois. Renewed May 16, 1953. Resilient Seats and Mattresses and Parts Thereof. Class 32.

303,408. MIST-I SHEER. Registered May 23, 1933. Carson, Pirie, Scott & Co., Chicago, Ill., a corporation of Illinois. Renewed May 23, 1953. Women's and Misses' Hosiery. Class 39.

303,572. DRAFTEX. Registered May 30, 1933. The Red Bridge Book Cloth Company, Limited, Red Bridge, Ainsworth, Bolton, England. Renewed May 30, 1953, to The Red Bridge Book Cloth Company Limited, Ainsworth, Bolton, England, a company organized under the laws of Great Britain and Northern Ireland. Tracing Cloth and Tracing Paper. Class 37.

303,574. PLANTEX. Registered May 30, 1933. The Red Bridge Book Cloth Company, Limited, Red Bridge, Ainsworth, Bolton, England. Renewed May 30, 1953, to The Red Bridge Book Cloth Company Limited, Ainsworth, Bolton, England, a company organized under the laws of Great Britain and Northern Ireland. Tracing Cloth and Tracing Paper. Class 37.

303,575. GLACITEX. Registered May 30, 1933. The Red Bridge Book Cloth Company, Limited, Red Bridge, Ainsworth, Bolton, England. Renewed May 30, 1953, to The Red Bridge Book Cloth Company, Limited, Ainsworth, Bolton, England, a company organized under the laws of Great Britain and Northern Ireland. Tracing Cloth and Tracing Paper. Class 37.

303,576. TRACITEX. Registered May 30, 1933. The Red Bridge Book Cloth Company, Limited, Red Bridge, Ainsworth, Bolton, England. Renewed May 30, 1953, to The Red Bridge Book Cloth Company Limited, Ainsworth, Bolton, England, a company organized under the laws of Great Britain and Northern Ireland. Tracing Cloth and Tracing Paper. Class 37.

303,598. ADMIRACIÓN. Registered May 30, 1933. National Oil Products Company, Harrison, N. J. Renewed May 30, 1953, to New Jersey Turner Hall Corporation, Hoboken, N. J., a corporation of New Jersey. Astringents, Astringent Cerates, Bleach Creams, Etc. Class 51.

303,606. REPRESENTATION OF MOUNTED ARAB. Registered May 30, 1933. Blaisdell Pencil Company, Philadelphia, Pa. Renewed May 30, 1953, to Blaisdell Pencil Company, Bethayres, Pa., a corporation of Pennsylvania. Lead Pencils. Class 37.

303,883. REPRESENTATION OF BLACK STRAND IN FLAX PACKING. Registered June 13, 1933. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed June 13, 1953. Flax Packing for Glands, Stuffing Boxes, Valve Stems, Pistons, Piston Rods, and Plungers. Class 35.

304,000. "JAEGER PUMPS" ETC. AND DESIGN LINED FOR RED AND BLACK. Registered June 13, 1933. The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio. Renewed June 13, 1953. Centrifugal Self-Priming Pumps. Class 23.

304,098. DAVIS. Registered June 20, 1933. R. B. Davis Company, Hoboken, N. J., a corporation of New Jersey. Renewed June 20, 1953. Baking Powder and Baking Soda. Class 46.

304,228. "RADEMAKER'S HOPJES" ETC. AND DESIGN LINED FOR YELLOW AND BLACK. Registered June 27, 1933. Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken. Renewed June 27, 1953, to Rademaker's Koninklijke Cacao en Chocoladefabrieken N. V., The Hague, Netherlands, a corporation organized under the laws of the Kingdom of The Netherlands. Coffee Flavored Candies of the Type Known as Hopjes. Class 46.

304,257. MARQUÉS DEL MÉRITO. Registered June 27, 1933. Jose Lopez de Carrizosa y Martel Marques del Merito, Jerez-de-la-Frontera, Spain. Renewed June 27, 1953. WINES. Class 47.

304,282. DUTCH BOY. Registered June 27, 1933. C. J. Van Houten & Zoon, Weesp, Netherlands. Renewed June 27, 1953, to C. J. Van Houten & Zoon, N. V., Weesp, Holland, a joint stock company existing under the laws of the Kingdom of the Netherlands. Cocoa. Class 46.

304,484. DOCKET. Registered July 11, 1933. Rockwell-Barnes Company, Chicago, Ill., a corporation of Illinois. Renewed July 11, 1953. Bond Paper. Class 37.

304,745. PEDIGREE. Registered July 18, 1933. Distillers Corporation Limited, Montreal, Quebec, Canada. Renewed July 18, 1953, to Seagram-Distillers Corporation, New York, N. Y., a corporation of Delaware. Potable Spirits, Whiskey and Liquors. Class 49.

304,778. "LUCKY LAGER" ETC. AND DESIGN. Registered July 18, 1933. Walter C. Braun. Renewed July 18, 1953, to Lucky Lager Brewing Company, San Francisco, Calif., a corporation of California. Malt Beverage With Not More Than the Legal Content of Alcohol. Class 48.

304,831. ADMIRACIÓN. Registered July 18, 1933. National Oil Products Company, Harrison, N. J. Renewed July 18, 1953, to New Jersey Turner Hall Corporation, Hoboken, N. J., a corporation of New Jersey. Chemical Compounds for General Cleaning Purposes, Beard Softening Preparations (a Soap), Etc. Class 4.

304,840. "SPEED-O-FORM" AND DESIGN LINED FOR GOLD AND RED. Registered July 18, 1933. United Autographic Register Company. Renewed July 18, 1953, to Uarco Incorporated, Chicago, Ill., a corporation of Illinois. Typewriter Attachments, Etc. Class 23.

304,990. SAVEALL. Registered July 25, 1933. Globe Automatic Sprinkler Company. Renewed July 25, 1953, to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania. Automatic Sprinklers of the Waterflow Type, Etc. Class 13.

305,420. WATOCUP. Registered Aug. 15, 1933. Boston Envelope Company, doing business as Boston Drinking Cup Company, Jamaica Plain, Boston, Mass. Renewed Aug. 15, 1953, to Boston Envelope Company, Dedham, Mass., a corporation of Massachusetts. Paper Drinking Cups. Class 2.

305,421. PURO. Registered Aug. 15, 1933. Boston Envelope Company, doing business as Boston Drinking Cup Company, Jamaica Plain, Boston, Mass. Renewed Aug. 15, 1953, to Boston Envelope Company, Dedham, Mass., a corporation of Massachusetts. Paper Drinking Cups. Class 2.

305,470. FALCON BOND. Registered Aug. 15, 1933. The Plymouth Paper Company, Inc., Holyoke, Mass., a corporation of Massachusetts. Renewed Aug. 15, 1953. Writing Paper. Class 37.

305,550. "THE CHAMP" AND DESIGN. Registered Aug. 22, 1933. Walter K. Marks. Renewed Aug. 22, 1953, to Walter K. Marks, Inc., New York, N. Y., a corporation of New York. Ladies' Hats. Class 39.



305,568. BEN. FRANKLIN. Registered Aug. 22, 1933. Blaisdell Pencil Company, Philadelphia, Pa. Renewed Aug. 22, 1953, to Blaisdell Pencil Company, Bethayres, Pa., a corporation of Pennsylvania. Lead Pencils. Class 37.

305,600. "JONNY COATS" AND DESIGN. Registered Aug. 22, 1933. John Edelman & Sons, New York, N. Y., a firm. Renewed Aug. 22, 1953. Ladies' Coats and Jackets. Class 39.

305,642. POOL'S "FIRE-FITER" AND DESIGN. Registered Aug. 22, 1933. Pool Manufacturing Company, Sherman, Tex., a corporation of Texas. Renewed Aug. 22, 1953. Overalls and Play Suits for Children. Class 39.

305,678. DARI-RICH. Registered Aug. 22, 1933. Bowey's Inc., Chicago, Ill., a corporation of Illinois. Renewed Aug. 22, 1953. Chocolate Flavored Syrup Used in Flavoring Milk, Whether Whole or Skim Milk, and Also, for Flavoring Other Foods. Class 46.

305,863. SAVEALL. Registered Aug. 29, 1933. Globe Automatic Sprinkler Company. Renewed Aug. 29, 1953, to Globe Automatic Sprinkler Company of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania. Pressure-Operated Automatic Electric Fire Alarm Systems, Etc. Class 21.

305,868. VAL VITA. Registered Aug. 29, 1933. Orange County Canners, Inc., Los Angeles and Fullerton, Calif. Renewed Aug. 29, 1953, to Hunt Foods, Inc., Fullerton, Calif., a corporation of Delaware. Canned Orange Juice for Food Purposes, Canned Grapefruit Juice for Food Purposes, Canned Tomato Sauce. Class 46.

305,937. MAJESTIC. Registered Aug. 29, 1933. Grigsby-Grunow Company, Chicago, Ill. Renewed Aug. 29, 1953, to Garod Radio Corporation, New York, N. Y., a corporation of New York. Electric Motors and Parts Thereof. Class 21.

306,006. "GOLD STANDARD" ETC. AND DESIGN LINED FOR YELLOW. Registered Aug. 29, 1933. Noah's Ark Auto Accessories, Inc., Rochester, N. Y. Renewed Aug. 29, 1953, to Perrine Battery Corporation, Waltham, Mass., a corporation of Massachusetts. Storage Batteries. Class 21.

306,153. KOLD OUT. Registered Sept. 12, 1933. P. H. Hanes Knitting Company, Winston-Salem, N. C., a corporation of North Carolina. Renewed Sept. 12, 1953. Wearing Apparel for Men, Women, and Children—Namely, Union Suits, Undershirts, Drawers, Etc. Class 39.

306,280. "TRONA" AND DESIGN. Registered Sept. 12, 1933. American Potash & Chemical Corporation, New York, N. Y., a corporation of Delaware. Renewed Sept. 12, 1953. Soda Ash, Potash Salts, Muriate of Potash, Etc. Class 6.

306,293. QUICKEES. Registered Sept. 12, 1933. Boston Knitting Mills, Inc., Newton, Mass., a corporation of Massachusetts. Renewed Sept. 12, 1953. Children's Pajamas, Boys' Union Suits, and Girls' Union Suits. Class 39.

306,618. STAY WARM. Registered Sept. 26, 1933. P. H. Hanes Knitting Company, Winston-Salem, N. C., a corporation of North Carolina. Renewed Sept. 26, 1953. Wearing Apparel for Men, Women, and Children—Namely, Union Suits, Undershirts, Drawers, Etc. Class 39.

306,655. CALLUNA. Registered Sept. 26, 1933. Surpass Leather Co., New York, N. Y. Renewed Sept. 26, 1953, to Surpass Leather Company, Philadelphia, Pa., a corporation of Pennsylvania. Leather. Class 1.

306,672. HYSAN. Registered Sept. 26, 1933. Henry J. Brownstein, doing business as Hysan Products Company. Renewed Sept. 26, 1953, to Hysan Products Company, Chicago, Ill. a corporation of Illinois. Disinfectants and Insecticides. Class 6.

306,677. CUPRINOL. Registered Sept. 26, 1933. Aktieselskabet Kymeia, Copenhagen, Denmark. Renewed Sept. 26, 1953, to Darworth Incorporated, Simsbury, Conn., a corporation of Connecticut. Chemical, Curing and Preserving Preparations for Treating Woodwork, and Masonry Against Decay and Fungi, Etc. Class 6.

306,697. KNEELAST. Registered Sept. 26, 1933. Vanity Fair Silk Mills, Reading, Pa. Renewed Sept. 26, 1953, to Julius Kayser & Co., New York, N. Y., a corporation of New York. Hosiery. Class 39.

306,753. ROYAL-SCOT. Registered Sept. 26, 1933. H. R. Mallinson & Co., Inc., New York, N. Y. Renewed Sept. 26, 1953, to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware. Silk Piece Goods. Class 42.

306,791. MULTILITH. Registered Sept. 26, 1933. Multigraph Company. Renewed Sept. 26, 1953, to Addressograph Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware. Printing Machines. Class 23.

306,851. "MARATHON" ETC. AND DESIGN LINED FOR ORANGE, GREEN AND BLACK. Registered Oct. 3, 1933. The Ohio Oil Company, Findlay, Ohio, a corporation of Ohio. Renewed Oct. 3, 1953. Gasoline, Fuel Oil, and Motor Lubricating Oils and Greases. Class 15.

306,854. "MARATHON PRODUCTS" ETC. AND DESIGN LINED FOR ORANGE. Registered Oct. 3, 1933. The Ohio Oil Company, Findlay, Ohio, a corporation of Ohio. Renewed Oct. 3, 1953. Gasoline, Fuel Oil, and Motor Lubricating Oils and Greases. Class 15.

306,900. HYDORA. Registered Oct. 3, 1933. Lever Brothers Company, Cambridge, Mass. Renewed Oct. 3, 1953, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Vegetable Shortening. Class 46.

306,953. SILVATEX. Registered Oct. 10, 1933. Neuss, Hesslein & Co., Inc., New York, N. Y., a corporation of New York. Renewed Oct. 10, 1953. Bleached Satteens and Other Cotton Piece Goods. Class 42.

307,066. REPRESENTATION OF BARBER. Registered Oct. 10, 1933. Pinaud, Incorporated. Renewed Oct. 10, 1953, to Ed. Pinaud, Inc., New York, N. Y., a corporation of New York. Toilet Soap, Shaving Soap Sticks, Shaving Soap Cream. Class 51.

307,220. GLADIATOR. Registered Oct. 17, 1933. Roman Meal Company, Tacoma, Wash., a corporation of Washington. Renewed Oct. 17, 1953. Whole Wheat Cereal. Class 46.

307,231. STAN-TOX. Registered Oct. 17, 1933. Standard Varnish Works, New York, N. Y. Renewed Oct. 17, 1953, to Standard-Toch Chemicals, Inc., Staten Island, N. Y., a corporation of New York. Paint Enamels. Class 16.

307,643. "AMERICAN" ETC. AND DESIGN LINED FOR RED, BLUE AND GOLD. Registered Oct. 31, 1933. American Brewery, Inc., Baltimore, Md., a corporation of Maryland. Renewed Oct. 31, 1953. Malt Beverages of Legal Alcoholic Content. Class 48.

# TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

147,320. O.K. Registered Oct. 11, 1921. Greenfield Tap and Die Corporation, Greenfield, Mass. Screw-Cutting Dies, Taps, Etc. Class 23. Amended as follows: In the statement, line 11, "reamers," is deleted; in lines 12 and 13, "pulleys, countershafts," is deleted; and in same line 13 and in line 14, "cold-saw cutting-off machines, tool-grinders," is deleted.

574,785. TENDERLINED. Registered May 19, 1953. Cube Steak Machine Co., Needham Heights, Mass. Meat—Namely, Beef, Veal, Mutton, Lamb and Pork Steaks and Cutlets—Tenderized by Machines Manufactured and Sold by It. Class 46. Corrected as follows: In the certificate, lines 2 and 14; in the heading to the statement; in line 1 of the statement; and in the signature, after "Co.," *now by change of name Needham Manufacturing Company*, should be inserted; and in the statement, line 6, after "William F. Spang," *John Spang, Joseph P. Spang III, Thomas Spang, Virginia McManoma, Barbara Lamothe*, should be inserted.

# TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

**New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.**

572,361. "SEL-LOK SPRING PIN" AND DESIGN. Registered Mar. 24, 1953. Self Lock Fastener Corporation, Belleville, N. J. Spring Pins. Class 13. New certificate under section 7(c) issued July 21, 1953, to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania.

# TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

## CLASS 2

### RECEPTACLES

Reg. No. 420,764. Registered Apr. 30, 1946. Standard Cap and Seal Corporation, Chicago, Ill. Republished by Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia.

FLEX-VAC

For Flexible Moisture Proof Composition Bags.
Claims use since Sept. 10, 1945.

Reg. No. 421,209. Registered May 21, 1946. Standard Cap and Seal Corporation, Chicago, Ill. Republished by Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia.

Flex-Vac

For Flexible Moisture-Proof Composition Bags.
Claims use since Sept. 10, 1945.

Reg. No. 430,178. Registered June 10, 1947. Standard Cap and Seal Corporation, Chicago, Ill. Republished by Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia.

FLEXVAC

For Flexible Moisture Proof Composition Bags.
Claims use since Feb. 2, 1946.

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 433,987. Registered Nov. 4, 1947. Coronet Handbags, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Michel

For Ladies' Handbags and Pocket Books.
Claims use since Aug. 15, 1945.





## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 132,592. Registered June 22, 1920. The Will Corporation, Rochester, N. Y., a corporation of New York. Republished by registrant.

BIOLOID

For Cellulose Compound Used in Preparing Collodion Embedding-Tissues for Microscopic and Biological Specimens.
Claims use since on or about Dec. 1, 1914.

Reg. No. 381,033. Registered Sept. 10, 1940. (Classified in Class 52.) United Buyers Corporation, also doing business as Foodcraft Products, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.
See this number in Class 52 for goods and mark.
Claims use since Feb. 10, 1937.

## CLASS 12

### CONSTRUCTION MATERIALS

Reg. No. 102,559. Registered Feb. 16, 1915. The Colorado Portland Cement Company, Denver, Colo. Republished by Ideal Cement Company, Denver, Colo., a corporation of Colorado.

IDEAL

For Portland Cement and Lime.
Claims use since Apr. 10, 1901.

Reg. No. 376,487. Registered Mar. 26, 1940. Lord & Burnham Company, Des Plaines, Ill. Republished by Burnham Corporation, Irvington, N. Y., a corporation of New York.

Orlyt

For Portable or Knockdown Buildings.
Claims use since on or about Oct. 17, 1939.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 316,638. Registered Aug. 28, 1934. Higley Chemical Company, Dubuque, Iowa, a corporation of Iowa. Republished by registrant.

VITRO-SEAL

The word "Seal" is disclaimed apart from the mark as shown.
For Floor Varnish.
Claims use since June 23, 1931.

Reg. No. 318,931. Registered Nov. 6, 1934. General Paint & Varnish Company Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

MASTER PAINTERS PRODUCTS
SUPER QUALITY
VITA TONE
GENERAL PAINT & VARNISH CO.

The words "Master Painters Products" and "Super Quality" are disclaimed apart from the mark as shown.
For Ready-Mixed Paint, Varnishes, Stains, and Paint Enamels.
Claims use since January 1928.

Reg. No. 367,075. Registered May 9, 1939. Commonwealth Engineering Corporation, Dayton, Ohio, a corporation of Delaware. Republished by registrant.

XeM

For Lacquers, Paint in Ready Mixed Form, Paint Enamels, and Varnishes.
Claims use since Feb. 8, 1938.

## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 408,787. Registered Aug. 29, 1944. Rystan Company, New York, N. Y. Republished by Rystan Company, Inc., Mount Vernon, N. Y., a corporation of New York.

Chloresium

For Therapeutic Chlorophyll and Chlorophyll Derivatives Preparations in Various Forms Such as Solutions, Ointments, and Other Medicinal Forms for the Treatment of Acute and Chronic Inflammatory Conditions Such as Burns and Wounds; for the Treatment of Chronic Ulcerative Lesions, Such as Chronic Varicose Ulcers and Ulcers Produced by Irradiation; for the Treatment of Post-Irradiation Erythema; for the Treatment of Infections of the Gums, Such as Vincent's Angina and Pyorrhea Alveolaris; for the Treatment of Respiratory Infections, Such as Chronic Sinusitis.
Claims use since Dec. 21, 1943.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 391,084. Registered Oct. 21, 1941. Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Republished by Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware.



For Miscellaneous Electric Coils and Electric Motors Especially Adapted for Aircraft Use.
Claims use since on or about July 8, 1940.

Reg. No. 440,344. Registered Aug. 24, 1948. Waring Products Corporation, New York, N. Y., a corporation of Delaware. Republished by registrant.



For Electrical Disintegrators and Mixers for Producing Fluid Substances From Solid Foods and Other Organic Matter and for Intermixing Fluids, for Use in Homes, Restaurants, Laboratories, for Industrial Use, and for Electrical Steam Irons.
Claims use since on or about Nov. 1, 1945.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 335,671. Registered June 9, 1936. Simplex Valve & Meter Company, Philadelphia, Pa., a corporation of Delaware. Republished by registrant.

ORTHO-FLOW

For Meters and Gauges for Registering the Flow, Head, and Pressure of Liquid or Gas, and Totalizers Therefor, and Controlling Devices, Such as Orifi, Venturi, Pressure Transmitters, and Float Transmitters.
Claims use since Dec. 17, 1934.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Reg. No. 382,610. Registered Nov. 5, 1940. United Buyers Corporation, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Deerwood

For Brooms, Mops, Scrubbing Brushes, and Dusters.
Claims use since 1912.

Reg. No. 383,207. Registered Nov. 26, 1940. United Buyers Corporation, also doing business as Foodcraft Products, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Klenzcraft

For Brooms, Mops, Scrubbing Brushes, and Dusters.
Claims use since Feb. 10, 1937.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 206,248. Registered Nov. 24, 1925. Lord and Burnham Company, Irvington-on-Hudson, N. Y. Republished by Burnham Corporation, Irvington, N. Y., a corporation of New York.

VELOC

For Greenhouse-Ventilating Apparatus.
Claims use since June 10, 1925.

Reg. No. 304,965. Registered July 25, 1933. Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Republished by Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan.

OIL-O-MATIC

For Domestic Hot Water Heaters.
Claims use since on or about Jan. 13, 1933.

Reg. No. 418,944. Registered Jan. 15, 1946. Burnham Boiler Corporation, Irvington, N. Y. Republished by Burnham Corporation, Irvington, N. Y., a corporation of New York.

BASE-RAY

The word "Base" is disclaimed apart from the mark as shown.
For Heating Panels—Namely, Radiator Sections With Enclosing Panels Adapted To Replace the Baseboard in Rooms.
Claims use since May 19, 1945.

## CLASS 37

### PAPER AND STATIONERY

Reg. No. 59,475. Registered Jan. 8, 1907. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass., a corporation of Massachusetts.

OLD HAMPSHIRE BOND

For High-Grade Papers for Use in Writing, Printing, and Engraving.
Claims use since before May 10, 1890.



Reg. No. 301,385. Registered Feb. 28, 1933. Hampshire Paper Company, South Hadley Falls, Mass. Republished by Byron Weston Company, Dalton, Mass., a corporation of Massachusetts.

Appraisal Ledger

The word "Ledger" is disclaimed apart from the mark as shown.
For Writing and Printing Paper.
Claims use since Jan. 28, 1932.

Reg. No. 380,743. Registered Aug. 27, 1940. United Buyers Corporation, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Ladyette

For Toilet Tissue, Paper Napkins, Paper Towels, Waxed Paper, and Cleansing Tissues.
Claims use since Jan. 15, 1935.

## CLASS 38

### PRINTS AND PUBLICATIONS

Reg. No. 439,421. Registered June 22, 1948. Welcome Wagon Service Company, Inc., New York, N. Y. Republished by Welcome Wagon, Inc., New York, N. Y., a corporation of Delaware.

THE WELCOME WAGON
VISITOR

For Periodicals Published Bi-Monthly.
Claims use since Jan. 1, 1943.

Reg. No. 442,117. Registered Feb. 22, 1949. Welcome Wagon Service Company, Inc., New York, N. Y. Republished by Welcome Wagon, Inc., New York, N. Y., a corporation of Delaware.

Baby Time

For Printed Folders Regularly Distributed by Applicant and Its Agents.
Claims use since November 1939.

Reg. No. 442,958. Registered June 21, 1949. Chromart Laboratories, Johnson City, N. Y. Republished by Stanley Zalenski, doing business as Chromart Laboratories, Endwell, N. Y.




For Processed Color Photographic Prints.
Claims use since about Apr. 14, 1947.



## CLASS 39

### CLOTHING

Reg. No. 345,176. Registered Apr. 20, 1937. Siegel Bros. Kiki Maid Koats Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

CORONATION

For Girls', Juniors', Misses', Little Women's and Ladies' Coats and Suits.
Claims use since Jan. 2, 1936.

Reg. No. 388,706. Registered July 8, 1941. Samuel J. Goldfarb, New York, N. Y. Republished by Perfection Frocks, Inc., New York, N. Y., a corporation of New York.

"DUZ - IT"

For Ladies' and Children's Dresses and Coats.
Claims use since Dec. 13, 1940.

Reg. No. 396,969. Registered Aug. 11, 1942. Hart, Schaffner & Marx, Chicago, Ill., a corporation of New York. Republished by registrant.

WINWEAVE

For Men's and Boys' Suits, Coats, Overcoats, Topcoats, Vests, Trousers, Knickerbockers, and Breeches.
Claims use since Feb. 16, 1942.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 340,971. Registered Nov. 24, 1936. Siegel Bros. Kiki Maid Koats Inc., New York, N. Y. Republished by Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York.

CORONATION

For Piece Goods Made of Wool, Cotton, Rayon, Silk, Artificial Silk, Artificial Fibres, and Combinations of the Same.
Claims use since Jan. 2, 1936.

## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Reg. No. 143,741. Registered June 7, 1921. Schweppes, Limited, London, England. Republished by Schweppes (Overseas) Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland.



For Mineral Waters.
Claims use since Apr. 17, 1876.

Reg. No. 144,921. Registered July 19, 1921. Schweppes, Limited, London, England. Republished by Schweppes (Overseas) Limited, London, England, a company of the United Kingdom of Great Britain and Northern Ireland.

SCHWEPPES

For Mineral Waters.
Claims use since the year 1890.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Reg. No. 119,438. Registered Nov. 20, 1917. A. Giurlani & Brother, San Francisco, Calif., a corporation of California. Republished by registrant.

ROMANELLO

For Cheese.
Claims use since about Jan. 1, 1917.

Reg. No. 167,092. Registered Apr. 24, 1923. The Copps Co., Stevens Point, Wis. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

DEERWOOD

For Canned Vegetables—Viz., Sweet Corn, Tomatoes, Peas, Red Kidney Beans, Green Beans, Wax Beans, Pumpkin, Saner Kraut; Prepared Mustard; Coffee; Cocoa; Tea; Vinegar; Catsup; Peanut Butter; Evaporated Milk; Canned Salmon; Mince Meat; Jam; Corn Sirup; Corn Meal; Buckwheat Flour; Powdered Sugar; Cornstarch for Food Purposes, and Rice.
Claims use since about 1912.

Reg. No. 170,806. Registered July 24, 1923. Wabasha Roller Mill Company, Wabasha, Minn. Republished by International Milling Company, Minneapolis, Minn., a corporation of Delaware.

JOSIE

For Wheat Flour.
Claims use since 1885.

Reg. No. 194,603. Registered Feb. 3, 1925. The Copps Company, doing business as The Wisconsin Coffee Company, Stevens Point, Wis. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

DEERWOOD

For Food Flavoring Extracts, Spices, Molasses, Rolled Oats, Pickles, Horseradish, and Olives.
Claims use since Jan. 19, 1919.

Reg. No. 213,944. Registered June 8, 1926. C. M. Holtzinger Fruit Co., Yakima, Wash. Republished by C. M. Holtzinger Fruit Co., Inc., Yakima, Wash., a corporation of Washington.

Royal Purple

For Fresh Apples.
Claims use since July 29, 1925.

Reg. No. 333,117. Registered Mar. 10, 1936. Holland District Asparagus Growers Association, Clarksburg, Calif. Republished by Lambert Marketing Co., Sacramento, Calif., a corporation of California.

WOODEN SHOE

For Fresh Vegetables.
Claims use since Mar. 18, 1935.

Reg. No. 382,738. Registered Nov. 12, 1940. United Buyers Corporation, doing business as Foodcraft Products, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Foodcraft

For Canned Fruits, Canned Berries, Canned Vegetables, Canned Vegetable Juices, Canned Sauerkraut, Canned Pumpkin, Canned Hominy, Canned Pork and Beans, Canned Soups, Canned Mushrooms, Canned Sweet Potatoes, Canned Tomato Puree, Tomato Catsup, Canned Evaporated Milk, Canned Salmon, Canned Shrimp, Canned Oysters, Canned Tuna, Canned Sardines, Table Syrup, Cocoa, Spices, Mustard, Rolled Oats, Canned Sausage, Sliced Beef, Potted Meat Food Products, Olives, Fruit Preserves, Pickles, Apple Butter, Peanut Butter, Canned Corn Beef Hash, Sandwich Spread, Canned Mixed Vegetables, Mincemeat, Egg Noodles, Macaroni, Salad Dressing, Salt, Coffee, Dried Currants, Gelatin Dessert, Honey, and Chili Con Carne.
Claims use since Sept. 16, 1935.



Reg. No. 390,267. Registered Sept. 16, 1941. A. Giurlani & Bro., San Francisco, Calif., a corporation of California. Republished by registrant.

ROYAL CROSS

For Olive Oil, Hearts of Artichokes, and Filet of Anchovies.
Claims use since Oct. 28, 1940.

Reg. No. 426,154. Registered Dec. 17, 1946. UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware. Republished by registrant.

JUMPER

For Canned Dog Food.
Claims use since 1935.

## CLASS 47

### WINES

Reg. No. 444,756. Registered Mar. 24, 1953. E. & J. Gallo Winery, Modesto, Calif., a corporation of California. Republished by registrant.

GALLO

For Wines.
Claims use since 1909.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Reg. No. 386,969. Registered Apr. 29, 1941. A. Giurlani & Bro., San Francisco, Calif., a corporation of California. Republished by registrant.




The background of the drawing is lined for gold and silver.
For Whiskey.
Claims use since June 7, 1940.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 423,747. Registered Sept. 10, 1946. Standard Cap and Seal Corporation, Chicago, Ill. Republished by Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia.

STANSEAL

For Laminated Paper Closures for Milk Bottles and the Like.
Claims use since Sept. 24, 1945.

Reg. No. 426,552. Registered Dec. 31, 1946. Standard Cap and Seal Corporation, Chicago, Ill. Republished by Standard Packaging Corporation, Chicago, Ill., a corporation of Virginia.

STANSeal

The word "Seal" is disclaimed.
For Bottle Closures.
Claims use since Feb. 2, 1946.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Reg. No. 123,463. Registered Nov. 12, 1918. Florence N. Lewis, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

CRYSTALLINE

For Eye Lotion.
Claims use since the year 1910.

Reg. No. 125,461. Registered May 20, 1919. Florence N. Lewis, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

SNOWDRIFT

For Talcum Powder.
Claims use since Sept. 18, 1918.

Reg. No. 130,201. Registered Apr. 13, 1920. Florence N. Lewis, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

Carino

For Face Powder.
Claims use since Oct. 1, 1918.

Reg. No. 361,202. Registered Oct. 11, 1938. Swiss Importing Co., Inc., New York, N. Y. Republished by Swiss Pine Importing Co., Inc., New York, N. Y., a corporation of New York.




The words "The Original Swiss Pine" are disclaimed apart from the mark as shown. The drawing is lined for red.

For Bath Oil and Cologne.

Claims use since Dec. 23, 1933.

## CLASS 52

### DETERGENTS AND SOAPS

Reg. No. 381,033. Registered Sept. 10, 1940. United Buyers Corporation, also doing business as Foodcraft Products, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Klenzcraft

For Drain Pipe Cleaner, Lye, Bluing, Ammonia, and Household Bleach.

Claims use since Feb. 10, 1937.

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Reg. No. 395,538. Registered June 2, 1942. United Buyers Corporation, also doing business aa Foodcraft Products, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Klenzcraft

For Toilet Soaps, Laundry Soap, Soap Flakes, Granulated Soap, Scouring Powder, and Toilet Bowl Cleaner, Wall Paper Cleaner, and Sweeping Compound.

Claims use since Feb. 10, 1937.

# REISSUES

JULY 21, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

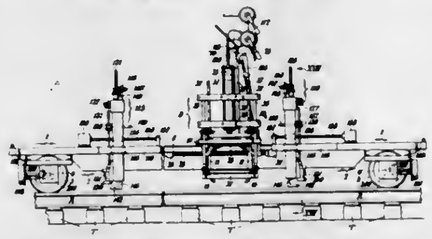
**23,687**

## BALLAST TAMPING APPARATUS

**Samuel R. Hursh, Bala Cynwyd, and Clarence J. Reigh, Altoona, Pa.; said Reigh assignor to said Hursh**

**Original No. 2,587,324, dated February 26, 1952, Serial No. 53,518, October 8, 1948. Application for reissue December 8, 1952, Serial No. 324,861**

**39 Claims. (Cl. 104—12)**



1. In ballast tamping apparatus, a platform with means for supporting it over a railway track; power actuated tamping devices for packing the ballast beneath individual track ties concurrently from opposite sides thereof; and means for supporting the tamping devices from the platform with capacity to be shifted along the latter from position over one tie to position over another tie and to be raised and lowered from and to operative position relative to the track bed.

**23,688**

## ELECTRICAL CONNECTOR

**William S. Watts, Roselle, N. J., assignor to Aircraft Marine Products, Inc., Elizabeth, N. J., a corporation of New Jersey**

**Original No. 2,410,321, dated October 29, 1946, Serial No. 514,216, December 14, 1943. Application for reissue October 28, 1947, Serial No. 782,469**

**7 Claims. (Cl. 339—213)**



*5. A connector for use in a crimped joint comprising a cylindrically shaped metal body portion having an open end for receiving a conductor therein, an insulating cover thereon, said insulating cover having the physical properties of permitting an indenting tool to be applied externally to the insulation and causing the metal body underneath to be indented in the form of a recess to a conductor therein, and of substantially retaining the shape of the recess in the insulation after the tool has been withdrawn.*

# PATENTS

GRANTED JULY 21, 1953

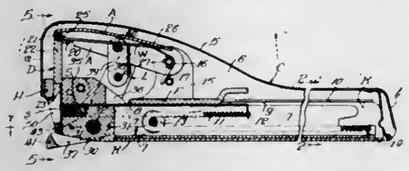
## GENERAL AND MECHANICAL

**2,645,772**
**STUD DRIVING TOOL**
**Merle H. Walker, Ilion, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**
**Application May 8, 1951, Serial No. 225,146**
**16 Claims. (Cl. 1—44.5)**



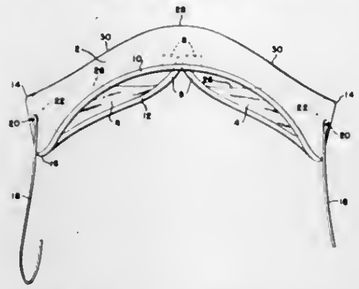
1. An explosively operated tool comprising a barrel; an action tube including a work-engaging end slidable on said barrel; spring means tending to cause said end of said tube to project in advance of the muzzle of said barrel; firing means to discharge a cartridge chambered in said barrel; a safety lock engaging said firing means to block the operation thereof; and a member on said tube and movable therewith, whenever said end of the tube is forced back a predetermined distance toward the plane of the muzzle of the barrel against the urging of said spring means, into engagement with said safety lock to disengage same from blocking engagement with the firing means.

**2,645,773**
**REMOVABLE STAPLE DRIVER GUIDE FOR STAPLE DRIVING IMPLEMENTS**
**Leo J. Dugin, Chicago, Ill., assignor to National Autostitch Corporation, Chicago, Ill., a corporation of Illinois**
**Application August 19, 1950, Serial No. 180,450**
**2 Claims. (Cl. 1—49)**



1. A staple hammer having at one end a head mounting a reciprocable driver normally maintained in an up position, means for urging a strip of staples forwardly to position the foremost staple beneath the driver to be propelled downwardly thereby, a guide coacting with the head to provide a way for guiding the driver and staple propelled thereby while advancing downwardly toward the work, the guide being provided with a pair of vertically disposed spaced wings extending rearwardly along opposite sides of the head, coacting spring detent means comprising movable parts carried by the head and fixed parts carried by the wings to releasably secure one to the other, and also coacting slots carried by the wings, and pin means carried by the head to positively lock one to the other, the coacting slots being vertically disposed and closed at their upper ends to afford a vertical support to the guide.

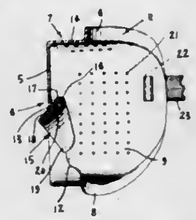
**2,645,774**
**EYESHADE**
**Edward C. Dale, Jr., Christinsted, St. Croix, Virgin Islands**
**Application March 26, 1951, Serial No. 217,505**
**5 Claims. (Cl. 2—12)**



1. An eye shade comprising an upper shade adapted to fit against the face of the wearer, the shade being formed to extend forwardly and downwardly from the face above the eyes and terminating slightly above the normal horizontal line of vision, lower shades one under each eye adapted to fit against the face and formed to extend forwardly and upwardly therefrom and terminating slightly below the normal horizontal line of vision, the lower shades each being of reducing width as they extend toward the wearer's nose and terminating adjacent to the nose, the forward edges of the lower shades terminating back of and below the forward edge of the upper shade to be shaded thereby, the forwardmost edges of the upper and lower shades coming together at their extreme sideward portions, and means for supporting the shade in position against the face of the wearer.

**2,645,775**
**EYE PROTECTIVE DEVICE**
**Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application November 18, 1950, Serial No. 196,449**
**5 Claims. (Cl. 2—14)**

1. An eye protection device of the character described comprising a cup-like member embodying a face shield having a top contour shaped to extend across both eyes of the wearer and having a substantially U-shaped recess in the lower contour thereof dividing said shield into a pair of eye portions, and a continuous side wall extending rearwardly from the side, top and lower contours of the shield including the nasal recess, the portion of the side wall extending rearwardly from the recess being disposed approximately normal to the general plane of said shield, and a nose protective member having a groove on its outer surface disposed with its mouth facing forwardly to receive said normally disposed walls of the recess and being secured



thereto, said nose protective member extending forwardly of the front surface of the shield and having its inner surface angled downwardly to approximate the shape of the wearer's nose and to have wide area surface contact therewith.





**2,645,776**
**MAGNETIC POT HOLDER**
**Hugh A. Kiler, Monrovia, Calif.**
**Application November 23, 1949, Serial No. 129,014**
**1 Claim. (Cl. 2—20)**



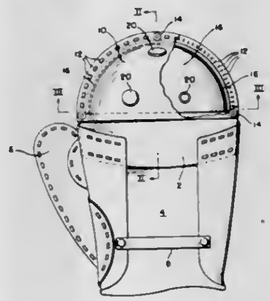
In a pot holder, a rectangular, laminated, padded body, a length of a binding tape folded over and about the edges of the body and secured thereto, as by stitching, a closed pocket formed adjacent a corner of the body, and a piece of a bar magnet snugly housed within said pocket to magnetically support the holder on a metallic surface, such as a wall of a kitchen range.

**2,645,777**
**COMBINATION COLLAR AND NECKTIE**
**Rudolph Naftali and Esther Naftali, New Rochelle, N. Y.**
**Application March 7, 1950, Serial No. 148,206**
**1 Claim. (Cl. 2—130)**



In an article of wearing apparel, the combination of a neck encircling portion comprising a collar part having its free transverse edges disposed at the front thereof, a neckband part, a first tie tab at one end of said neckband part and projecting beyond one transverse edge of said collar part, a second tie tab at the other end of said neckband part and projecting beyond the other transverse edge of said collar part, said first tie tab having securing means for securing said second tie tab thereto, said last named securing means comprising an opening in said projecting portion of said first tie tab and spaced inwardly from the free end thereof, said second tie tab having securing means for securing said first tie tab thereto, said last named securing means comprising a first opening located in said projecting portion of said second tie tab and spaced inwardly from the end thereof, and a second opening in said projecting portion of said second tie tab and spaced inwardly from said last named first opening, said opening in said first tie tab being adapted to receive said second tie tab therethrough, said first opening of said second tie tab being adapted to receive said first tie tab therethrough in one direction and said second opening of said second tie tab being adapted to receive said first tab therethrough after it has been passed through said first opening but in the opposite direction for forming a simulated bow tie.

**2,645,778**
**SAFETY MITTEN**
**William E. Probert, Spokane, Wash.**
**Application February 17, 1950, Serial No. 144,691**
**3 Claims. (Cl. 2—158)**

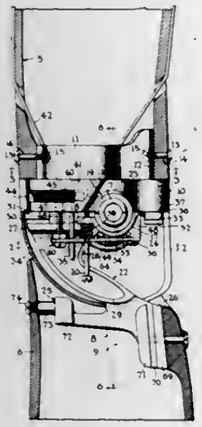


1. In a workman's mitten having a finger-receiving portion, a patch of suitable material attached to the back of said finger-receiving portion along the bottom peripheral edges thereof to form a pocket, a half-cup shaped shield of rigid crush-resistant material disposed in said pocket with the concave side of said shield opposite the back of said finger-receiving portion and the open end of said shield toward the top of said pocket, and means for detachably holding said shield in position in said pocket.

**2,645,779**
**ARTIFICIAL LIMB KNEE STRUCTURE**
**Louis H. Barghausen, Pittsburgh, Pa.**
**Application June 25, 1951, Serial No. 233,434**
**13 Claims. (Cl. 3—28)**

9. A knee check for use in artificial limbs comprising a lever body, swing check abutment means projecting forwardly from said body, a hub carried by said lever body and adapted to surround a knee bolt, and a securing arm depending from said lever body and disposed to extend in a front to rear direction across a limb shank section and provide means for attaching the check to said shank section, said arm having an attaching pad at its front end, and an attaching pad at its rear end, said front pad having a threaded tap therein, a hollow tapped screw threadably mounted in the pad tap for adjustment a greater or

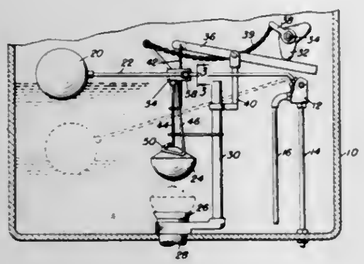
lesser distance forwardly of the front pad as a shank wall abutment, and a screw threadable



in the hollow screw tap for securing a shank wall to said abutment forming hollow screw.

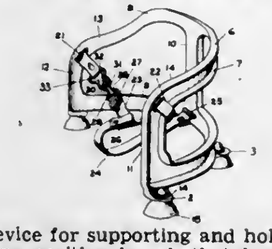
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**2,645,780**
**WATER SAVING FLUSH TANK**
**Hans V. Becker, Miami, Fla.**
**Application November 24, 1950, Serial No. 197,401**
**1 Claim. (Cl. 4—67)**



In a flushing device comprising a tank having an outlet, a buoyant valve for closing the outlet, an inlet valve and float means for actuating said inlet valve, a water saver including a spindle journaled in the tank, a lever pivotally mounted in the tank, a link operatively connecting one end of the lever with the buoyant valve for opening same, a double cam on the spindle operatively engaged with the other end portion of the lever for actuating same for opening the buoyant valve when said spindle is rotated in either direction, an arm fixed on the spindle, an arm pivotally mounted on the float means and engageable with the buoyant valve for prematurely closing same for a partial flush when said float means drops with the level of the liquid in the tank, and a flexible member operatively connecting the first-named arm to the second-named arm for swinging the latter to inoperative position away from the buoyant valve when the spindle is rotated in one direction for a full flush.

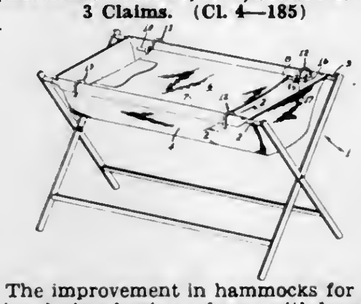
**2,645,781**
**BABY'S BATH SEAT**
**Hyman Mover, Marblehead, Mass.; Rebecca C. Mover, Milton Kahn, and Solomon H. Rubin, executors of Hyman Mover, deceased, assignors to Bunny Bear, Inc., Everett, Mass., a corporation of Massachusetts**
**Application August 27, 1948, Serial No. 46,410**
**11 Claims. (Cl. 4—185)**



2. A device for supporting and holding a child in a sitting position in a bath tub comprising a plastic frame molded as a unitary structure with channel section members curved to a general body shape to form the back and sides of the device, said members including a lower channel member having a lower edge surface lying in a plane, said channels on the members all facing outward of the device, a plurality of brackets extending slightly outwards and downwards from the lower edge surface of said lower channel member and a vacuum cup retained in each of said brackets for attaching the device to a bath tub.

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**2,645,782**
**INFANT'S BATHING DEVICE**
**Benjamin H. Kennedy, Pittsford, N. Y.**
**Application October 18, 1951, Serial No. 251,867**
**3 Claims. (Cl. 4—185)**



1. The improvement in hammocks for infants' bathing devices having a frame with longitudinal rails which support the tub which comprises two side rods for supporting the hammock, a hammock having edge means for connection with the rods, the ends of the rods extending beyond the hammock being necked to a smaller diameter, a hook having a relatively thick resilient sheath and a rounded portion proportioned to effect a tight fit with the rod requiring force to be pushed thereover to the smaller diameter neck where the hook is removably secured but freely turnable, the hook being adaptable to engage the said rails and support the hammock over the tub.

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**2,645,783**
**PLUMBING MANIFOLD**
**Alfred W. Allen, Greensboro, N. C.**
**Application January 4, 1951, Serial No. 204,426**
**7 Claims. (Cl. 4—191)**

1. Plumbing manifold comprising a unitary elongated body of generally rectangular cross-



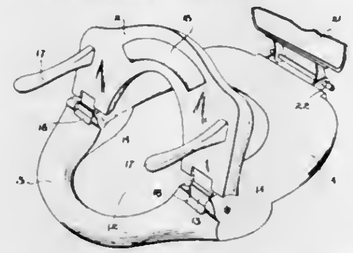
section having a plurality of parallel passages therethrough opening in one end of said body and in the top of said body adjacent the opposite end, the axes of said passages at their opposite ends being perpendicular, two of said passages being relatively small, to serve as conduits for



water under pressure, the other being relatively large to serve as a drain, said body being formed with branch passages communicating with said first named passages at an intermediate point in the length of said first named passages and perpendicular thereto.

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**2,645,784**
**LAVATORY SEAT**
**Ricardo Blackburn, Heidelberg, Victoria, Australia**
**Application December 16, 1949, Serial No. 133,242**
**In Australia November 15, 1949**
**3 Claims. (Cl. 4—235)**

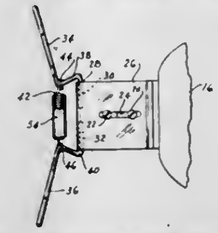


1. A combined adult and child's toilet seat comprising a rear portion and a front portion, the front portion including a lower section forming a child's seat and which is rigidly fixed with the rear portion and an upper section pivotally mounted at the rear upon said rear portion so as to overlie the lower section in complementary relationship with the rear portion to form a toilet seat for an adult, and limit stops on the lower section engageable by said upper section when said upper section is pivoted upwardly for limiting upward and backward swinging movement of said upper section to form a backrest for a child seated on the lower section, the width and cross sectional area of said lower section being less than that of said upper section so as more readily to fit the legs of a child.

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**2,645,785**
**INFANT'S TOILET SEAT MOUNTING MEANS**
**Ed Bergman, New York, N. Y., assignor to Kiddie Seat Corporation, New York, N. Y., a corporation of New York**
**Application June 23, 1950, Serial No. 169,961**
**6 Claims. (Cl. 4—239)**

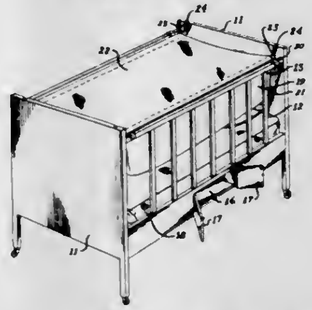
4. A device for attaching an infant's toilet seat provided with a rearwardly extending tongue to an adult's toilet seat having a rear neck portion, said device comprising a plate means to detachably attach said plate to said tongue, said plate provided at its rear end with a sleeve open at its opposite ends, a pair of separate, similar, symmetrically disposed attaching members having arms extending inwardly into the opposite ends of the sleeve and being rotatable and slideable therein, said attaching members having hooks to engage around and beneath the neck of the



adult's toilet seat, and spring means interconnecting said attaching members to draw them toward each other.

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**2,645,786**
**CRIB**
**Charles C. Loftin, Cincinnati, Ohio**
**Application January 16, 1951, Serial No. 206,204**
**1 Claim. (Cl. 5—2)**



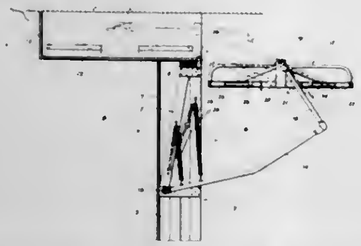
In a crib having end panels and slatted side members, said end panels having limited downwardly extending slots on the inner face thereof and adjacent to the side members, a removable stretcher having rods receivable in said slots whereby the stretcher can be stretched over the top of said crib or one of said rods removed from its slot with the stretcher supported in non-operative position adjacent to the side of said crib, a tub removably supported on said side members within said crib below said stretcher, a compartment in the bottom of said crib, and doors for closing said compartment.

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**2,645,787**
**CEILING BED**
**Victor Ray Will, Sacramento, Calif.**
**Application December 12, 1950, Serial No. 200,469**
**3 Claims. (Cl. 5—10)**

3. In a disappearing bed assembly including a compartment opening at the front through the wall of a room adjacent the ceiling; a mounting frame, the wall having a pocket opening into the room below the compartment and the frame being secured in the pocket, transversely spaced swing rods pivoted at their inner ends to the frame for swinging between an outwardly and downwardly inclined first position with their outer ends adjacent the floor and an upstanding second position with said outer ends adjacent the open front of the compartment, a bed adapted to be disposed in the compartment, a horizontal cross bar connected between the outer ends of the swing rods and extending laterally outward from both thereof, rigid supporting arms fixed to the ends of the cross bar, said arms upstanding when

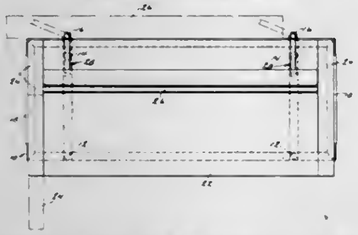
the swing rods are in said first position, and means pivotally connecting the supporting arms to corresponding ends of the bed centrally of its sides, the bed being on the floor and in the com-



partment when the swing rods are in said first and second positions, respectively; the bed having corner legs adapted to fold from a depending position to a substantially horizontal position.

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2,645,788
**SOFA BED WITH SHIFTABLE BACK**
**Florence S. Knoll and Charles W. Niedringhaus, New York, N. Y., assignors to Knoll Associates, Inc., New York, N. Y.**
**Application November 27, 1948, Serial No. 62,292**
**1 Claim. (Cl. 5—59)**



In a sofa bed, having a frame and a seat portion supported thereon, in combination, two spaced brackets rotatably supported by said frame for rotation about a vertical axis throughout a fraction of a full turn, each bracket including a vertical upward extension, a back-rest in pivotal connection with the upward extensions of said pair of brackets whereby said back-rest is movable in an arcuate path between an active position above said seat portion and respectively one of two inactive positions to the rear of and clear of said seat portion, a side portion on said frame normally positioned in the path of at least a part of said back-rest to restrain releasable movement thereof from the active position to one of the two inactive positions and being shiftable forwardly to clear the path of said back-rest, a protrusion arranged in at least one of said upward extensions of the brackets, and a pair of spaced abutting means arranged on said back-rest at the pivotal connection thereof with said upward extension carrying the protrusion, said protrusion being arranged for abutting cooperation with one of said abutting means in each of the two inactive positions of the back-rest to limit the path thereof.

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2,645,789
**BACK SEAT PLAYPEN**
**Joseph K. Wisner, Jr., San Francisco, Calif.**
**Application July 8, 1950, Serial No. 172,671**
**5 Claims. (Cl. 5—94)**

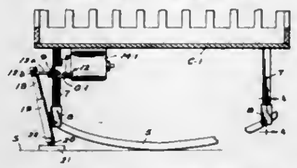
1. A structure adapted for mounting in the rear compartment of an automobile to provide one wall of a play pen, the other walls of which are formed by the side walls and rear wall of such rear compartment and the floor of which is formed by the seat in said rear compartment; said structure comprising spaced, parallel vertical posts, cross bars extending therebetween, and friction pad assemblies for each post, each of



said friction pad assemblies comprising a shoe slidably mounted on its post for sliding vertical adjustment and a pad member adapted to bear against a side wall or door of said rear compartment, and screw means for moving said pad member longitudinally of the structure for applying pressure to said side wall or door.

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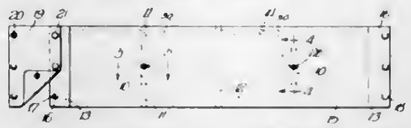
2,645,790
**DEVICE FOR ROCKING CRIBS**
**William B. Hayes, Los Angeles, Calif.**
**Application May 24, 1950, Serial No. 163,947**
**4 Claims. (Cl. 5—109)**



3. In a device for rocking a crib having rockers enabling it to rock, the combination of a prime mover mounted on the crib; a reciprocable member connected to and driven by said prime mover; a fixed re-action member; and resilient means, connecting said members, for converting the reciprocating motion of said reciprocable member into rocking motion of the crib, said prime mover having a power out-put sufficient only to maintain constant said rocking motion after the inertia of the crib is overcome, and said resilient means having sufficient resiliency to produce a torque to overcome said inertia.

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2,645,791
**FLOATING BELT**
**Otto Klabunde, Chicago, Ill.**
**Application November 16, 1950, Serial No. 196,053**
**2 Claims. (Cl. 9—17)**



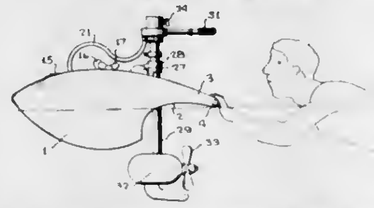
1. A belt comprising an inflatable receptacle having a pair of opposed sides, each of said sides having an aperture extending transversely there-



through and in substantial alignment one with the other, an insert position within said receptacle and dividing said receptacle into a pair of compartments, said insert having a valve receiving bore extending therethrough and aligned with said apertures, said insert having a second bore formed therein extending transversely of and intersecting said first bore, said second bore being in open communication with said pair of compartments, a valve rotatably mounted within said first bore and having a passage therethrough for selective alignment with said second bore upon rotation of said valve, said valve having a second passage formed therein, said second passage communicating with the atmosphere at one of its ends and terminating at its other end in open communication with said first passage, means on said valve to prevent shifting of said valve relative to the longitudinal axis of said first bore, said last named means comprising a pair of spaced radial flanges engaging against the marginal edges of said apertures formed in said sides of said receptacle.

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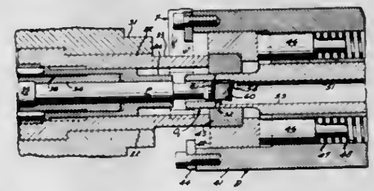
2,645,792
**SELF-PROPELLED BOAT FOR SWIMMERS**
**James Button Waters, Niagara Falls, N. Y.**
**Application July 13, 1951, Serial No. 236,488**
**1 Claim. (Cl. 9—18)**



An aquatic device including a body, said body comprising a pair of transversely spaced, parallel side walls of forwardly tapered formation, said side walls being disposed in vertical planes and having their top and bottom edges curved longitudinally from end to end of said edges, said edges being oppositely curved and extending into convergence at opposite ends of the side walls to form each side wall to an elliptical configuration, said side walls being arcuately cut away along their bottom edges adjacent the rear ends thereof to define rear end portions of reduced width, said rear end portions being formed as longitudinal extensions of the top edges portions of the respective side walls and being disposed wholly above the longitudinal center of the side walls, longitudinally curved top and bottom walls extending between and rigidly connected to the respective side walls, said top and bottom walls converging toward the front end of the body and being sealably joined at their convergent front ends, front and rear end walls extending between and rigidly connected to the side walls and the top and bottom walls, said end walls being spaced longitudinally of said body inwardly from the front and rear ends of the body, the rear end wall being disposed forwardly of the arcuately cut away portions of the side walls, a platform extending between the end walls and spaced above the bottom wall, there being defined sealed chambers respectively located forwardly of the front end walls and below said platform to impart the characteristic of buoyancy to the body, the platform cooperating with the end and side walls to define immediately thereabove a storage battery compartment, and means in the top wall providing access to said compartment; a storage battery mounted in the battery compartment; an electrically powered water propulsion mechanism mounted upon said body immediately rearward of the rear end wall, said mechanism including a clamp engageable with the body and the body having a recess proportioned to receive the clamp, said mechanism being electrically connected to the battery so as to be driven thereby; and a handle rigid with and extending between said end portions of the side walls, said handle being located rearwardly of the propulsion mechanism to afford a hand grip for a person disposed in the water in back of the body, said handle being shiftable laterally to provide means under the control of said person for changing the direction of movement of the body through the water.

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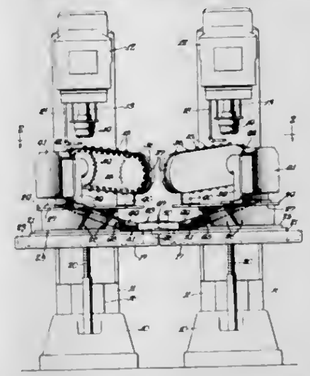
2,645,793
**NUT PIERCING METHOD**
**John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio**
**Application June 17, 1949, Serial No. 99,770**
**11 Claims. (Cl. 10—86)**



1. A method of piercing blanks comprising the steps of confining the side wall of a blank so that it cannot radially expand, axially punching a slug from the blank into engagement with an inclined surface thereby tilting the slug away from the end of the punch while the blank is cold and while it is confined, removing the confinement of the blank side wall, and withdrawing the punch from the blank while the side wall thereof is unconfined.

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2,645,794
**THREADING MACHINE FIXTURE**
**Joseph F. Ross, Glencoe, Ill., assignor to J. J. Tourek Mfg. Co., Chicago, Ill., a corporation of Illinois**
**Application March 15, 1950, Serial No. 149,728**
**3 Claims. (Cl. 10—107)**



1. The combination of a threading machine or the like having a rotatably driven reciprocable tool carrying spindle, and a work holding

fixture comprising a rotatably driven member positioned with the axis of the tool spindle extending radially of the driven member, a rotatable idler member positioned with its axis parallel to the axis of the driven member and remote from the axis of the spindle, an endless carrier extending over said idler and driven members and driven by the latter, said carrier having a plurality of work holding devices mounted thereon, and means for supporting said members, said means being pivotally mounted on said machine for swinging movement about the axis of said spindle and having a device for clamping said means in a plurality of positions about said axis, whereby said carrier may extend in any direction convenient for the operator to load work pieces on said work holding devices.

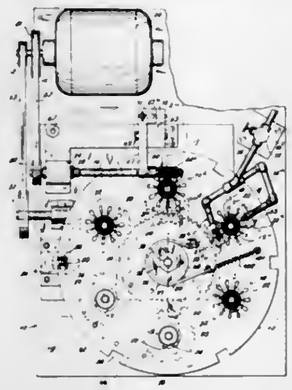
**2,645,795**
**METHOD OF BINDING BOOKS**
**Lloyd E. Pitner, Milwaukee, Wis.**
**Application April 3, 1947, Serial No. 739,165**
**13 Claims. (Cl. 11—1)**



1. A method of book manufacture which comprises prefabricating a blank having cover and binding strip portions for a multiple of books in side by side and end to end relationship in integral strip form, advancing the strip in a continuous motion while severing binding strip portions from either side of the blank, spacing side binding strip portions from the cover strip portions and applying a tape to the binding and cover strip portions spanning the gap therebetween and holding said portions at fixed spacing, prefabricating contents, assembling the contents between a pair of cover and binding strips made as aforesaid, fastening the binding strips through the intervening contents and finally severing individual books from the strip.

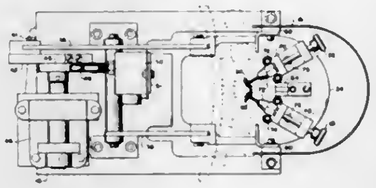
**2,645,796**
**APPARATUS FOR REMOVING INSULATION FROM THE TERMINAL LEADS OF ELECTRICAL MEMBERS**
**John B. Leece, University Heights, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio**
**Application June 24, 1948, Serial No. 34,923**
**10 Claims. (Cl. 15—21)**

1. In an insulation removing machine for operation on electrical articles of the kind having a group of insulation-covered terminal elements projecting therefrom and lying substantially in the same plane, a table, means supporting said table for rotary movement, a plurality of workholders adapted to receive individual articles and to support said articles with the groups of terminal elements of all of the articles lying substantially in a common plane, a cleaning station adjacent said table, means mounting said workholders for rotation on said table and for advance movement by the table to said cleaning station in succession, a pair of cooperating insulation removing rotary brushes at said cleaning station and disposed in a relation to define a work zone therebetween and for operating against said terminal elements from opposite sides of said common plane, means operable to impart rotation to each of said workholders while such workholders are at said cleaning station for causing the group of terminal elements of the article which is at said cleaning station to traverse said work zone, a pair of brush carriers swingably pivoted for closing and opening movement of said brushes relative to said work zone, brush spindle rotatable in said carriers for mounting said brushes



thereon, bearing means adjacent said cleaning station, a pair of driven shafts rotatable in said bearing means and disposed substantially in axial alignment with said spindles, and a pair of adjacent substantially coextending flexible shafts connecting said spindles with said driven shafts.

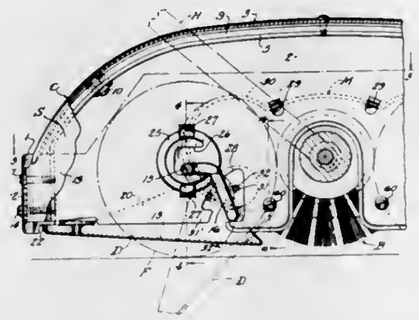
**2,645,797**
**BRUSHING APPARATUS**
**Robert A. Kraay, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application June 3, 1950, Serial No. 165,998**
**2 Claims. (Cl. 15—21)**



1. Apparatus for brushing articles comprising an indexable turntable, a plurality of article carriers on said turntable, a brushing station adjacent said turntable in the path of said article carriers, means to index said turntable thereby to move articles carried by said carriers into said brushing station, a plurality of reciprocably movable brushes resiliently mounted for simultaneous movement into and out of brushing engagement with an article indexed to said brushing station, a cam-actuated linkage for imparting reciprocable movement to said brushes, means movable reciprocably with said brushes for continuously imparting rotative brushing motion to the brushes, a cam wheel for imparting movement to said linkage, a motor for driving said cam wheel, a normally open first switch means momentarily closable by said indexing means at the end of each indexing operation to energize said motor, and a second normally closed cam-actuated switch means in parallel with said first switch means and positioned to be opened at the end of each brushing operation.

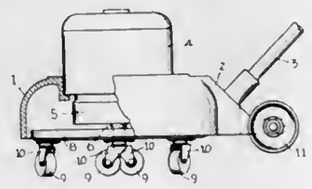


**2,645,798**
**CARPET SWEEPER**
**Berthold R. Thiele, Ripon, Wis., assignor to Speed Queen Corporation, a corporation of Delaware**
**Application July 2, 1945, Serial No. 602,746**
**8 Claims. (Cl. 15—41)**



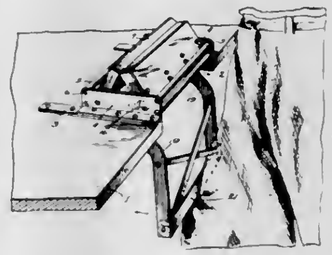
5. A carpet sweeper comprising, in combination, a casing, two dust pan and wheel support sub-assemblies for said casing, each of said sub-assemblies including a dust pan and a pivot shaft extending therethrough, two laterally extending crank arms operatively connected to the respective ends of said pivot shaft, a stubshaft at the end of each of said crank arms and serving as a wheel axle, and support wheels on each of the axles thus formed; said sweeper casing having openings extending inwardly from the edges thereof, said sub-assemblies being detachably assembled with said casing with said pivot shafts disposed in the respective openings in said casing.

**2,645,799**
**APPARATUS HAVING COMPOUND MOTION CARPET ENGAGING MEANS FOR BEATING CARPETS OR RUGS**
**Joseph D. Conway, Cleveland Heights, Ohio**
**Application November 22, 1949, Serial No. 128,859**
**3 Claims. (Cl. 15—92)**



1. In a carpet beating apparatus, the combination of a plurality of carpet-engaging means, each of said means being axially rotatable in a vertical plane, a driving element axially rotatable in a horizontal plane, and swivel means pivotally securing each of said carpet-engaging means circumferentially to said element for orbital movement about the axis of rotation of said swivel means, whereby each of said carpet-engaging means has a compound orbital movement about said swivel means and the axis of rotation of said element in response to carpet traversing movement of said element.

**2,645,800**
**FILM DRYING APPARATUS**
**John Lewis Cahill, Floyd County, Ind.**
**Application October 29, 1947, Serial No. 782,939**
**3 Claims. (Cl. 15—100)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In combination a table top provided with a cutout portion at one edge thereof, a pair of vertically-arranged plates one disposed adjacent each edge of the cutout and extending upwardly therefrom, a pair of cooperating substantially rectangular squeegee elements extending across said cutout and pivoted at their lower edges to said plates, the distance between said pivots being less than the combined heights of the squeegee elements, and means for swinging said squeegee elements toward and from each other.

**2,645,801**
**HAIRBRUSH**
**Orville R. Seidner, Alhambra, Calif.**
**Application November 12, 1949, Serial No. 126,903**
**2 Claims. (Cl. 15—143)**



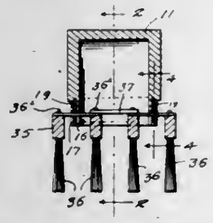
1. A brush comprising a back member and a plurality of bristles extending from one surface thereof, a strap member arched across the opposite surface, at least one shoulder extending laterally of said back member of a width and disposed so as to accommodate an operator's finger substantially in the plane of said back member, said strap being arched in a plane transversely of the shoulder so that one or more fingers of the operator passing below said strap and pressing on said opposite surface of said back member are substantially parallel to one finger of the operator resting on said shoulder, whereby said brush may be carried by said one or more fingers and rotated thereabout by said one finger exerting pressure on said shoulder so as to vary and maintain the angle at which said bristles engage a tress of hair on one side thereof, the length of said bristles being such that one or more fingers of the operator may be disposed on the opposite side of said tress as a support therefor when said bristles are run therethrough.

**2,645,802**
**SECTIONAL BRUSH ASSEMBLY**
**Louis J. Mundo, Chicago, Ill.**
**Application November 19, 1949, Serial No. 128,426**
**9 Claims. (Cl. 15—181)**



2. In a brush assembly of the character described, a shaft, an end collar fixedly mounted on said shaft, pins extending inwardly from the end face of said collar, a brush comprising two complemental halves each having a core element the opposite end faces of which are formed with openings which correspond in number and arrangement to the pins on said end collar, the openings at one end of said brush slidably receiving said pins on said end collar, holding means at the other end of said brush fixedly mounted on said shaft and cooperating with the openings in the end face thereat and with said end collar to confine said brush, and a key establishing a non-rotative relation between said shaft and said brush.

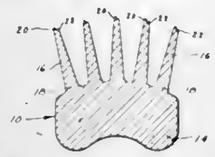
**2,645,803**
**EXTENSIBLE BRUSH AND CONTAINER THEREFOR**
**Walter P. Abel, Madison, N. J.**
**Application January 24, 1951, Serial No. 207,568**
**3 Claims. (Cl. 15—185)**



1. An extensible brush construction comprising a plurality of elongated parallel brush backs, bristles carried by each of said backs, pivot means in each of said backs, links engaging said pivot means for pivotally securing each back to an adjacent back whereby the spacing of said backs relative to each other may be varied, a casing for said brushes and means for securing said casing to said brush to serve as a handle therefor, said last-mentioned means comprising notches in the rim of said casing engaging over said links, and tongued slide means coacting with said notches carried by said casing for engaging said links in said notches.

**2,645,804**
**BRUSH AND THE BRISTLE FORMED THEREWITH**
**Harry Gantz, Harold H. Schwartz, and Casper Iasillo, Sr., Portchester, N. Y., assignors to Empire Brush Works, Inc., Portchester, N. Y., a corporation of New York**
**Original application February 13, 1948, Serial No. 8,098. Divided and this application May 20, 1950, Serial No. 163,184**
**6 Claims. (Cl. 15—187)**

1. A brush comprising a back portion and bristles integrally extending therefrom, said back and bristles being made of plastic material as a



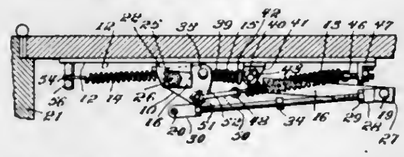
single member, said bristles having at the ends thereof a pair of spaced fingers.

**2,645,805**
**BROOM**
**Haley H. Birch, Preston, Nebr.**
**Application May 16, 1949, Serial No. 93,541**
**1 Claim. (Cl. 15—189)**



In a broom, a handle, a bunch of straws disposed with their butt ends at the top and about the lower end portion of the handle, windings of wire securing the butt end portions of said bunch of straws on the lower end portion of the handle, flat bunches of straws at two opposite sides of the first-named bunch wired in place at the butt ends of said first-named bunch, primary shoulder-forming bunches of straws at the other two opposite sides of the first-named bunch disposed with their butt ends down at opposite sides of the butt end portions of the first-named bunch of straws, other windings of the wire securing the butt end portions of the second-named bunches in place, secondary shoulder-forming bunches of straws disposed with their butt ends down at the outer sides of but slightly higher than the butt ends of the primary shoulder-forming bunches of straws, and further windings of the wire above the first and second-named windings securing the butt end portions of the secondary shoulder-forming bunches of straws in place above and in spaced relation to the second-named windings and in engagement with said secondary bunches above said first and second-named windings, all of said shoulder-forming bunches of straws being bent down over the last-named windings.

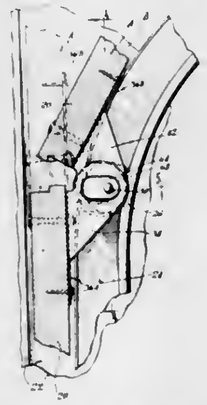
**2,645,806**
**DOOR CLOSER**
**Horace Jackson Turney, Phoenix, Ariz.**
**Application May 13, 1952, Serial No. 287,484**
**6 Claims. (Cl. 16—65)**



1. A door closer comprising a segment pivotally mounted on a door, a main spring attached at one end to said segment and at the other to the door at a point spaced from the segment, an auxiliary spring attached, at one end, to the segment and at the other to the door at a point spaced on the opposite side of the segment from that on which the main spring is attached to the door, a checking spring also attached at one end to the door and at the other to the segment, said checking spring being attached to the segment at the same point at which the auxiliary spring is attached to the segment and to the door at a point between the segment and point where the main spring is attached to the door, an arm fixedly attached to the segment and extending therefrom, and a rod pivotally attached to the free end of the arm at one end and at the opposite end to a socket adapted to be attached to a door frame.



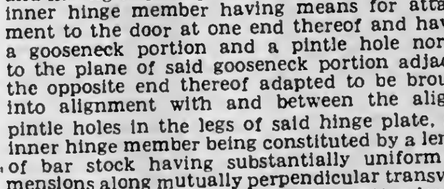
**2,645,807**
**HINGE FOR MULTISECTION OVERHEAD DOORS**
**John F. McKee, Aurora, and Melvin E. Hartzler, Downers Grove, Ill., assignors to McKee Door Company, Aurora, Ill., a corporation of Illinois**
**Application December 3, 1948, Serial No. 63,372**
**5 Claims. (Cl. 16—97)**



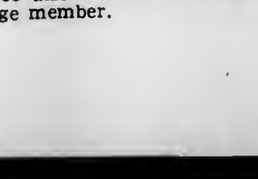
5. A hinge for overhead doors of the multisection type comprising a first section formed of sheet metal and having upstanding sides with bearing surfaces and aligned openings, a second hinge section of sheet metal having upstanding sides with bearing surfaces engaging the bearing surfaces of said first section, an insert located in each of said openings, said inserts having openings for receiving a roller shaft, said inserts having their shaft-receiving openings so located within the periphery of said inserts that different positions for said roller shaft can be provided by different arrangements of said inserts in said first-named openings.

**2,645,808**
**SECTIONAL LAWN MOWER HANDLE**
**Paul H. Rosenberg, Lansing, Mich., assignor to Reo Motors, Inc., Lansing, Mich., a corporation of Michigan**
**Application March 10, 1949, Serial No. 80,633**
**6 Claims. (Cl. 16—111)**

1. In a lawn mower having a handle shank member and a pair of shank extension members, means for removably connecting an extension member to the shank member, said means including an elongated arcuately surfaced protuberance on one of the members and an elongated arcuately surfaced recess on the other member receiving the arcuate surface of said protuberance, the arcuate surfaces of said protuberance and recess being of different curvatures but said protuberance being deformable upon application of pressure to conform the curvature of its surface to that of the recess, and means for pressing the protuberance and recess surfaces together to deform the protuberance to conform to the recess whereby said members are connected together to inhibit relative rotation.

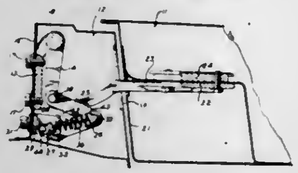


**2,645,809**
**AUTOMOBILE DOOR HINGE**
**Seth B. Atwood and Warren J. Kush, Rockford, Ill., assignors to Atwood Vacuum Machine Company, Rockford, Ill., a corporation of Illinois**
**Application April 19, 1949, Serial No. 88,298**
**1 Claim. (Cl. 16—135)**



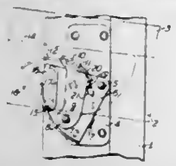
In a hinge structure for use in mounting a door upon a pillar forming one side of a door opening in a vehicle body the combination comprising, a U-shaped outer hinge plate having a pair of spaced legs, a web portion interconnecting said legs at one end thereof and attaching flange portions at the opposite ends of said legs for securing said plate to said pillar, the legs of said plate being arranged in horizontal planes and having aligned pintle holes therethrough, an inner hinge member having means for attachment to the door at one end thereof and having a gooseneck portion and a pintle hole normal to the plane of said gooseneck portion adjacent the opposite end thereof adapted to be brought into alignment with and between the aligned pintle holes in the legs of said hinge plate, said inner hinge member being constituted by a length of bar stock having substantially uniform dimensions along mutually perpendicular transverse axes throughout substantially its entire length, the dimension of said bar stock along an axis transverse to the axis of the pintle hole therein being substantially thrice the diameter of said pintle hole, and a pintle extending through the pintle holes in said plate and inner hinge member for interconnecting the same, the distance between the pintle hole in said inner hinge member and the adjacent end of the latter being greater than the distance between the pintle hols in the legs of said plate and the web portion thereof thereby to locate said web portion in the path of movement of the said adjacent end of said inner hinge member and which web portion therefore acts as a stop for said inner hinge member and hence also for the door when engaged by said hinge member.

2,645,810
**DOOR CHECKING AND HOLDING DEVICE**
Stephen J. Galia, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application July 29, 1950, Serial No. 176,620
2 Claims. (Cl. 16—135)



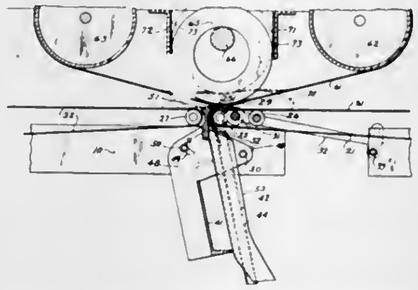
2. In a motor vehicle body having a door structure and a door supporting structure adjacent thereto, a pair of hinge leaves secured respectively to said door structure and to said door supporting structure, a hinge pin pivotally connecting said hinge leaves, a bracket mounted upon one of said structures, a toggle link pivotally connected at one end to said bracket, a second toggle link having one end pivotally connected to the other end of said first toggle link and its opposite end pivotally connected to an intermediate portion of the hinge leaf secured to the other of said structures, and a coil spring having one end connected to said bracket and its opposite end connected to the pivotal connection between said toggle links, the axis of said coil spring being disposed on one side of the pivotal connection between said bracket and said first toggle link when said door structure is open and passing substantially through the pivotal connections between said first toggle link and said bracket and said second toggle link when said door structure is in a partially open position such that the pivotal connection between the second toggle link and the hinge leaf is in alignment with the hinge pin and with the pivotal connection between the toggle links.

2,645,811
**HINGE FOR WINDOWS**
Einar Särenholm, Eskilstuna, Sweden, assignor to Svartviks Aktiebolag, Sundsvall, Sweden, a corporation of Sweden
Application August 6, 1947, Serial No. 766,713
In Sweden June 2, 1947
5 Claims. (Cl. 16—140)



1. A pivot hinge for windows having a frame and a casement pivoted to the frame about horizontal axes, comprising a casement fitting, a frame fitting, a link member pivoted to the frame fitting and carrying the casement fitting, the fitting carried by the link member being formed with a brake surface, a lever pivoted to said link member and having a brake surface for cooperation with said brake surface of the fitting, and means to move said lever relatively to the link member to bring its braking surface towards and into contact with the braking surfaces of the fitting as a result of the movement of the casement and the link member relatively to the frame during the first portion of the outward swinging movement of the casement from the position of closure.

2,645,812
**FISH FILLET SPLITTING AND SKINNING MACHINE**
Frederick H. Jensen, Seattle, Wash.
Application May 2, 1947, Serial No. 745,441
6 Claims. (Cl. 17—4)

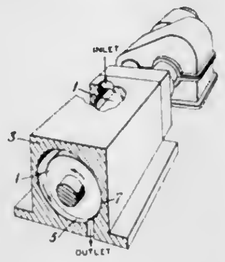


3. In a fish skinning machine, the combination which comprises a frame, crank arms pivotally mounted in the frame, a feed belt bracket extended from the frame, a transversely positioned rear feed belt roll mounted in said crank arms, a front feed belt roll mounted in said bracket, a longitudinally disposed conveyor feed belt trained over said transversely positioned rear feed belt roll and also over the front feed belt roll, a transversely disposed vertically positioned knife guide substantially T-shaped in cross section mounted in the frame, spaced from the rear feed belt roll and the feed belt thereon, and having a knife slot therein, a transversely positioned channel member adjustably mounted in the frame and having end sections extended from the frame, band wheels positioned on opposite sides of the frame and mounted on the extended end sections of the channel member, an endless band knife trained over said wheels and having an upper run extended through the machine, said wheels and channel member being positioned whereby the upper run of the knife travels in said slot of the knife guide, said knife guide having an arcuate recess positioned below the knife slot and said guide positioned whereby the arcuate recess coacts with the rear feed belt roll of the conveyor feed belt to provide a discharge slot, a hold-down belt positioned above the conveyor and knife for carrying products from the feed belt over the knife, and means for receiving products from the knife.

2,645,813
**PROCESS AND APPARATUS FOR CONTINUOUS MILLING OF PLASTIC MATERIAL**
Herbert A. Swallow, Plainfield, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application June 29, 1950, Serial No. 171,129
13 Claims. (Cl. 18—2)

1. In a process for milling normally solid plastic material by a rotating smooth surface of revolution and a stationary smooth surface positioned with respect to said rotating surface to provide between the respective surfaces a convergent zone in the direction of rotation and terminating in a milling clearance longitudinally along the rotating surface, said zone having an orifice for discharging milled plastic material, which comprises compounding the plastic by introducing it as a viscous adhesive mass into the convergent zone, milling the plastic by rotating the surface of revolution to adhesively drag the viscous plastic mass into said zone in an amount larger than that which can completely pass through said milling clearance to thereby subject the viscous mass in said zone to shear and pressure and discharging the milled plastic by longitudinally moving the plastic along the convergent zone to the discharge orifice by means of said pressure.

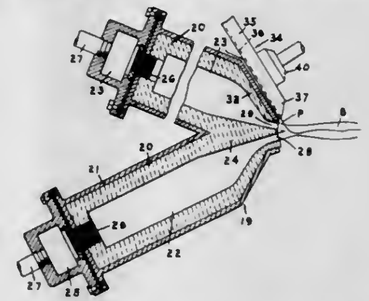





11. Apparatus for continuous milling of plastic material comprising in combination, a pair of rotatable parallel smooth surfaced longitudinal cylinders separated from each other by a milling clearance to form a bite for milling the plastic, a housing enclosing and supporting said cylinders, said housing having a chamber open to the rolls and a smooth surfaced saddle plate partially encircling each of said cylinders including the said milling clearance bite, said saddle plate having a minimum total clearance from the cylinders not less than the bite clearance between the rolls and an increasing clearance in each direction away from said milling bite to form on each side thereof a convergent entrance leading toward said bite, a seal at each end of said saddle plate for confining plastic material within the convergent entrances and milling bite of the cylinders, a passageway through the saddle plate and housing for discharging milled plastic material confined by the saddle plate and its seals, and means for rotating the cylinders in counterdirections and towards the convergent entrances.

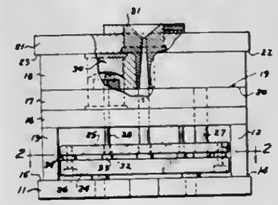
2,645,814
**METHOD AND APPARATUS FOR PRODUCING FIBERS FROM GLASS AND OTHER HEAT-SOFTENABLE MATERIALS**
Charles J. Stalego, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application November 2, 1948, Serial No. 57,902
17 Claims. (Cl. 18—2.5)

1. The process of producing fibers from a heat-softenable material, comprising burning a combustible gaseous mixture in a burner assembly and discharging the products of combustion from the burner assembly in the form of separate streams of gas, directing the streams toward each other at such an included angle that the streams intersect each other and conflow into a single stream substantially immediately following their discharge from the burner assembly, joining the gas streams as they discharge to form a single blast of gas moving at a high velocity, and feeding heat-softenable material into the blast and transversely of the direction



of movement thereof to attenuate the heat-softenable material into fibers.

2,645,815
**EJECTOR PIN ASSEMBLY FOR MOLD BASES**
Ivar T. Quarnstrom, New Haven, Mich.
Application November 23, 1951, Serial No. 257,925
1 Claim. (Cl. 18—42)



In combination, an ejector plate, a secondary ejector plate in parallel spaced relation therewith and having a transverse opening therethrough, an ejector pin having an elongated shank loosely positioned through said opening and having a disc-like head of increased diameter at one end interposed between said plates, a plurality of longitudinally spaced screws arranged around said plates adjacent their edges extending through one plate and threadably engaging the other for compressively retaining said head between said plates, and a circular centrally apertured spacer on said screws intermediate said plates and of the same height as the height of said head.

2,645,816
**MANUFACTURE OF MECHANICAL BINDINGS**
Clarence D. Trussell, Turnwood, N. Y.
Application March 17, 1950, Serial No. 150,219
15 Claims. (Cl. 18—47.5)



1. The herein disclosed method of manufacturing a mechanical binding comprising providing stock of sheet material having tubular ribs along opposite edges of the same, forming slots in the sides of the ribs, separating the intervening sheet material between the ribs on staggered lines defining transversely extending alternately arranged fingers connected with the respective

ribs and having end portions in substantial alignment with and of a width to enter the slots in the ribs and at one stage imparting ring forming curvature to said fingers.

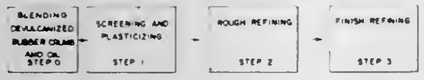
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2,645,817

**PROCESS FOR FINISHING RECLAIM RUBBER**

Gardner L. Brown and Theodore A. Johnson, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

Application September 22, 1950, Serial No. 186,198
10 Claims. (Cl. 18—47.5)




2. In the reclaiming of vulcanized scrap rubber the method of finishing devulcanized rubber which comprises passing crumbs of unmilled devulcanized rubber from the devulcanizer and drier directly through a strainer to partially masticate and remove extraneous matter therefrom and then passing the strained rubber through a refiner to complete the mastication and to form the same into a uniform sheet.

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2,645,818

**METHOD OF MAKING RETRACTILE ARTICLES**

Nicolas Drisch and René Fays, Paris, France, assignors, by mesne assignments, to Societe Novacel, Paris, France, a corporation of France

No Drawing. Application July 31, 1947, Serial No. 765,254. In France May 3, 1945
6 Claims. (Cl. 18—58.7)

3. A method of setting up in retractile articles, such as caps and bands, sufficient elasticity and extensibility while in the moist or gel state to permit stretching thereof and the automatic return to a contracted state upon release of the stretching force, which comprises impregnating a gel retractile article formed of a water-insoluble polyvinyl acetal with an aqueous solution containing 15 to 30 parts of diacetin of glycerin, and maintaining said article in the moist or gel state until it is positioned in place in the ultimate use thereof.

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2,645,819

**METHOD OF MAKING GRADUATED CONNECTING LINKS FOR DIVERSELY INSULATED ELECTRIC CABLES**

Georges Louis Pouzet, Paris, France, assignor to Compagnie Generale d'Electricite, Societe Anonyme, Paris, France, a French corporation

Application July 20, 1950, Serial No. 174,907
In France May 11, 1948
6 Claims. (Cl. 18—59)




3. The method of preparing by extrusion a link for connecting two lengths of cable with different insulating materials, which consists in displacing longitudinally a conducting wire, extruding on to said wire at the corresponding fusion temperature a first plastic composition constituted entirely by the first of said two insulating materials, then extruding successively at the corresponding fusion temperatures a series of plastic compositions containing said first insulating material in progressively decreasing proportions up to proportions which can become zero and the second insulating material in progressively increasing proportions starting with proportions which can be zero in members of said series immediately succeeding said first composition, and finally extruding at the corresponding fusion temperature a final plastic composition constituted entirely by the second of said insulating materials, and continuously operating the extrusion and the variation of temperature of said extrusion according to the law of variation of the fusion points of said plastic compositions.

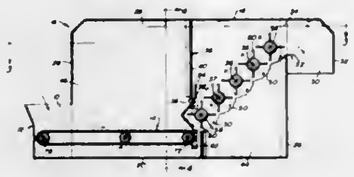
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2,645,820

**BLENDING HOPPER**

Kenneth G. Lytton, Charlotte, N. C.

Application August 25, 1950, Serial No. 181,447
5 Claims. (Cl. 19—67)



1. A blending hopper comprising a housing having a fiber stock inlet, an outlet and a conveyor vertically spaced below said inlet, and means for delivering the fiber from the conveyor to said outlet including a plurality of rotary members carried by said housing, one of said members being disposed adjacent to said conveyor and having a plurality of tines, a baffle assembly having a plurality of passages and disposed between said one of said rotary members and said conveyor to stop the movement of fiber in said housing and thereby form a bank of the fiber, and said tines being operable in said passages to draw some of the fiber from said bank, said baffle assembly comprising a first and a second baffle section having confronting ends hingedly connected together, and means for moving the first section hingedly relative to the second section causing said baffle assembly to move inwardly toward said one of said rotary members to increase the amount of penetration of said tines into said passages and hence into the bank of material.

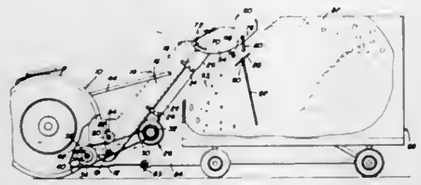
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2,645,821

**SEPARATOR FOR COTTON HARVESTERS**

Lambuth Groves Fowler, Lubbock, Tex.

Application August 9, 1952, Serial No. 303,562
11 Claims. (Cl. 19—72)



1. A cotton classifier and cleaner for use in conjunction with a cotton harvester having an upwardly-directed cotton discharge elevator with an elevated discharge opening for directing rearwardly and downwardly of the harvester a stream of cotton comprising mature cotton, immature cotton and heavier bodies, said elevator being of the type having an endless elongate conveyor mounted on shafts in an elongate upwardly-directed housing with a closed upper end overlying the discharge opening and the upper end of the conveyor and closely spaced to the path of travel of the upper end of the conveyor and formed to conform substantially to said path of travel to aid in directing the cotton stream through the discharge opening, said classifier and cleaner including, an air duct having an air outlet directed upwardly and rearwardly in close proximity to the discharge opening, the air outlet being arranged to direct its air stream transversely and upwardly through the downwardly and rearwardly moving stream of cotton flowing from the discharge opening, means for blowing a stream of air through the air duct, and a hood overlying the air outlet, said hood having a closed top and closed sides and extending rearwardly from the upper end of the elevator housing for receiving the air stream from the air duct outlet with mature cotton entrained therein and directing the same rearwardly and downwardly from the elevator, the immature cotton and heavier bodies falling downwardly through the air stream and through the open bottom of the hood.



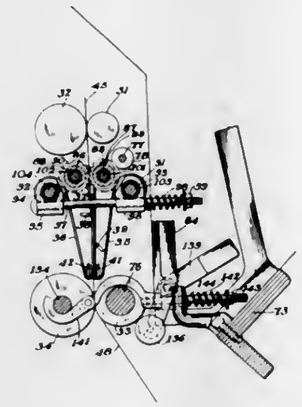
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2,645,822

**DRAFTING TEXTILE FIBERS**

Wilfred J. Cabana, Woonsocket, R. I., assignor to Uxbridge Worsted Company, Inc., Uxbridge, Mass., a corporation of Massachusetts

Application December 10, 1946, Serial No. 715,329
24 Claims. (Cl. 19—131)



10. The method of attenuating a strand of fibers which comprises passing the strand longitudinally between a pair of spaced longitudinally moving surfaces, causing the surfaces to converge continuously along the path of travel of the strand, thereafter bending the surfaces in a serpentine path to apply lateral thrust to the fibers, and drawing the strand between the surfaces in the same longitudinal direction as the direction of travel of the surfaces.

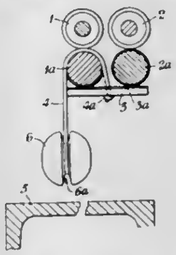
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2,645,823

**DRAFTING MECHANISM FOR TEXTILE FIBERS**

Joseph Noguera, Salford, England, assignor to Casablancas High Draft Company Limited, Salford, Manchester, England, a British company

Application February 8, 1952, Serial No. 270,653
In Great Britain April 13, 1951
6 Claims. (Cl. 19—139)



6. In a drafting mechanism of the class wherein a weight acting through a flexible connection urges an underclearer against the under periphery of at least one bottom roller with the intermediate portion of the flexible connection slidably supported by the drafting mechanism to provide an underclearer leg attached to the underclearer and a weight leg supporting the weight, characterized by the fact that said weight leg has a loop, and the weight has an annular groove removably received in the loop.

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2,645,824

**VENTILATED WALL**

Edwin J. Titsworth, Goodrich, Mich.

Application September 13, 1949, Serial No. 115,475
1 Claim. (Cl. 20—4)



In a building construction the combination with a panel member, a layer of insulation arranged contiguous to the outer surface of said panel member, and a sheathing spaced from said insulation to define a space therebetween, of a pair of moulding members each having a portion thereof arranged exteriorly of said sheathing and extending horizontally along the outer face of the sheathing, said moulding members being arranged adjacent the top and bottom of said sheathing and supported by the latter, said moulding members each comprising a top section

extending downwardly and outwardly and arranged angularly with respect to said panel member, a bottom section arranged in spaced parallel relation below said top section, an arcuate section connecting said top and bottom sections together, there being a plurality of spaced openings arranged in said bottom section for the egress therethrough of moisture laden air, a first flange extending from said top section, and a second flange arranged in alignment with said first flange and extending from said bottom section, said openings being arranged contigous to said arcuate section, said moulding members being secured to the sheathing and communicating with each other through the space defined between the sheathing and the insulation.

**2,645,825**
**LUMBER SHAKE**
**Raymond A. Wilde, Everett, Wash.**
**Application October 2, 1951, Serial No. 249,364**
**2 Claims. (Cl. 20—5)**



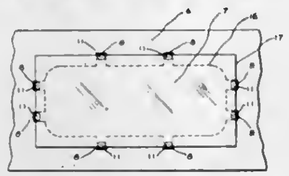
1. A wooden lumber shake of the character described consisting of a rectangular piece of board of uniform thickness having a tongue and a corresponding groove extending along the opposite longitudinal side edges respectively for the entire length of said piece of board, the front or outer face of said piece of board being fluted, the bottoms of the valleys in said fluting located in a common plane parallel to the rear face of said piece of board, and a transverse strip cut across the fluting at the top edge of said front or outer face, said strip being of uniform width, the bottom face of said strip extending in the same plane as the bottoms of said valleys, the upper ends of the ridges of said fluting where said fluting is terminated by said strip thereby constituting a series of short, spaced transverse shoulders.

**2,645,826**
**WINDOW CONSTRUCTION**
**Charles J. Roos, Muskegon, Mich.**
**Application August 31, 1950, Serial No. 182,544**
**1 Claim. (Cl. 20—40)**



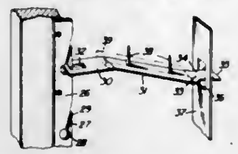
In a shock proof window construction, a window frame, window sashes mounted within the frame, in which window panes are held, non-shatterable panes positioned against the window panes on opposite sides thereof, said non-shatterable panes being movable over said window panes of the frame, bars extending across the window frames in contact with the non-shatterable panes holding the non-shatterable panes into contact with the panes of the window frame.

**2,645,827**
**WINDOW FOR PANELS**
**Andrew J. Koli, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware**
**Application September 13, 1949, Serial No. 115,544**
**6 Claims. (Cl. 20—56.4)**



1. In combination with a panel having a first opening: a transparent member engaging the inner face of said panel surrounding said first opening; a retaining frame overlying the outer face of said panel surrounding said first opening and having at least an edge thereof engaging the outer face of said panel; and a plurality of second openings in said panel substantially underlying said frame and surrounding said transparent member, said frame having a plurality of tongues projecting through said second openings and bent inwardly to engage the edge and inner face of said transparent member

**2,645,828**
**SHUTTER CONSTRUCTION AND OPERATOR**
**Roy A. Davis, Leesburg, Fla.**
**Application September 19, 1950, Serial No. 185,639**
**1 Claim. (Cl. 20—62)**



In a louver construction, a fixed vertical supporting strip having outwardly inclined entrance slots at one edge and openings at the lower ends of the slots to form upstanding pins at the edge of the strip, a plurality of louver supporting arms having openings adjacent their inner ends to receive said pins for vertical swinging movement of the arms, louver fastening prongs projecting upwardly from the arms, a neck at the outer end of each arm, and an operating bar having openings in which the necks of the arms are lockably and pivotally engaged.

**2,645,829**
**PATTERN FOR VERTICAL CASTING SYSTEMS**
**William H. Johnson, Washington, D. C.**
**Application May 4, 1950, Serial No. 159,909**
**2 Claims. (Cl. 22—157)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A pattern plate for molding foundry pouring forms, said pattern plate having attached to

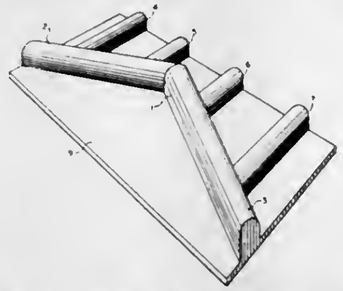


a broad face thereof a system of bosses including a short vertical boss of generally rectangular cross-section having its outer vertical edges rounded off, a pair of adjacently disposed vertical half-round bosses, the first of which is longer than the second, the second is of upwardly tapering cross-section and both are of greater length than said short vertical boss, each of said pair of vertical bosses being attached at its lower end to the upper horizontal face of said short vertical boss, said horizontal face having a width slightly greater than is necessary to accommodate the ends of said pair of vertical bosses attached thereto, said short vertical boss having a length and depth equal to from twice to three



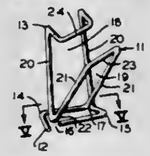
times the magnitude of the diameter of said first vertical half-round boss, said tapered vertical half-round boss having a minimum cross-sectional area equal to that of said first vertical half-round boss and a maximum cross-sectional area of from about two to four times the same, a series of three horizontal bosses attached to said tapered vertical boss along the side thereof which is remote from the adjacent vertical boss and so arranged therealong that the lowermost of the three is located at the lower end and the highest at the upper end thereof, and the second is located intermediate of the other two, each of said three horizontal bosses having a cross-sectional area equal to that of said first vertical half-round boss.

**2,645,830**
**PATTERN FOR HORIZONTAL CASTING SYSTEMS**
**William H. Johnson, Washington, D. C.**
**Application May 4, 1950, Serial No. 159,911**
**4 Claims. (Cl. 22—157)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



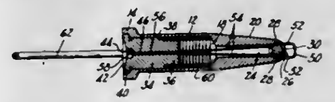
1. A pattern plate for molding foundry pouring forms having a centrally fed horizontal runner, said pattern plate having attached to a broad face thereof a system of bosses of generally rectangular cross-section having the upper edges thereof rounded off, said system of bosses including an inverted V-shaped boss having arms of equal length which diverge at an angle of between about 80 and 120°, and an even multiple, numbering at least four, of equi-spaced, equi-cross-sectional area, parallel bosses attached to and extending laterally from the apex side of the inverted V-shaped boss and arranged in equal number on the arms thereof, said equi-spaced parallel bosses being of lower height and smaller cross-sectional area than the inverted V-shaped boss and the sum of the cross-sectional areas of said equi-spaced parallel bosses being at least twice that of the inverted V-shaped boss.

**2,645,831**
**SUPPORT FOR LUMINOUS TUBING**
**Richard V. Staaf, Oakdale, Pa.**
**Application January 30, 1951, Serial No. 208,569**
**2 Claims. (Cl. 24—81)**



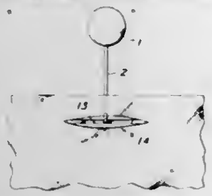
1. A mounting attachment comprising a wire having its ends shaped to provide a pair of jaws with its central portion resiliently connecting said jaws, said central portion being shaped to provide a second pair of jaws, each of said second pair of jaws comprising a pair of parallel spaced wire strands connected at their outer ends by a transversely extending wire portion, each strand of one of said second pair of jaws forming a V with a similar strand in the other of said second pair of jaws whereby said second pair of jaws is comprised of a pair of said V's spaced from each other, the lower ends of the strands forming one of said V's being integrally connected to each other and the lower ends of the strands forming the other of said V's being integrally connected respectively to one of said first-named pair of jaws.

**2,645,832**
**CORD GRIPPING DEVICE**
**Matthew E. Lee, South Bend, Ind.**
**Application December 9, 1950, Serial No. 200,039**
**2 Claims. (Cl. 24—136)**



1. A gripping device comprising a cup-shaped body, an end wall of said body having a pair of spaced apertures, a plunger slidable axially in said body and having an open-ended passage therethrough and a socket therein communicating with the outer end of said passage, an elongated strand having its ends knotted together, said knotted portion seating in said socket and said strand extending from said knotted portion through said passage with separate runs extending through said apertures whereby a portion of said strand extends across the outer surface of said end wall between said apertures, and a spring pressing said plunger outwardly of said body.

2,645,833
**PIN FASTENER WITH HINGED END**
Axel G. Wistedt, Borlange, Sweden
Application March 19, 1951, Serial No. 216,299
In Sweden May 24, 1950
2 Claims. (Cl. 24—155)



1. A curtain supporting device comprising a handle member formed from a single piece of springy metal bent to resilient hairpin-shape and having the ends thereof drawn together and an intermediate curved connecting portion, a turnable part pointed at both ends thereof rotatably centrally journalled on said intermediate curved connecting portion, said turnable part having a slot extending lengthwise thereof, a point of said turnable part being insertable between the legs of said handle member and held in position therebetween by engagement of one said leg in said slot and releasable therefrom by springing of said handle.

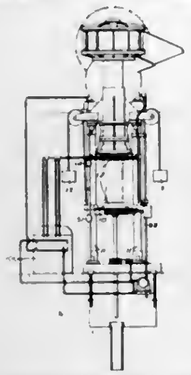
2,645,834
**SAFETY CATCH**
Eugene Morehouse, Providence, R. I., assignor to B. A. Baliou & Co., Incorporated, a corporation of Rhode Island
Application January 16, 1952, Serial No. 266,705
4 Claims. (Cl. 24—157)



1. In a safety catch, a body having a base, a shank extending away from the base and supporting a hook with its concave inner surface toward the base, said shank having a slot, a guard pivoted in the body having an arm to close the hook in one position or swing outwardly therefrom in another position, said guard having a finger positioned to pass through the slot with a detent to engage the outside edge of the shank and hold the arm against the hook thereby closing the catch.

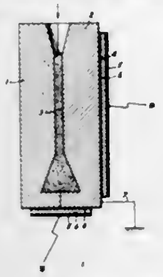
2,645,835
**VERTICAL EXTRUSION MACHINE**
Edgar Garford Bennett, Woodville, and Charles Leslie Willis, Ashby-de-la-Zouch, England
Application March 25, 1949, Serial No. 83,446
In Great Britain August 22, 1947
10 Claims. (Cl. 25—11)

8. A vertical extrusion machine for making articles from plastic material comprising extruding means, a work table pivotally movable about a horizontal axis mounted for vertical sliding movement relative to the extruding means, automatically actuated means to lock the work table in a raised position and fill the extruding means with plastic material, further automatically actuated means to release the table whereby the table descends under the pressure of the material being extruded, additional means actuated after the table has descended a predetermined distance to arrest operation of the extruding means to



permit the extruded article to be cut off, and additional means automatically actuated after the extruded article has been cut off to move the table about its pivot to facilitate removal of the article.

2,645,836
**MOLDING METHOD**
Emil Sörensen and Herbert Scharf, Augsburg, Germany, assignors to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of the German Republic
Application December 29, 1949, Serial No. 135,579
In Germany July 1, 1949
6 Claims. (Cl. 25—156)

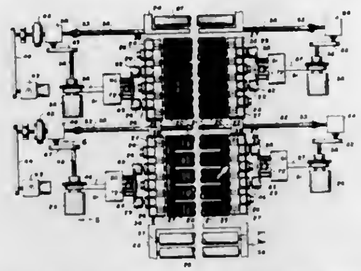


1. In a method for compression molding of ceramic articles from a mass of pulverous ceramic material, the steps of introducing into a mold ceramic material in a dry powdered state and substantially free of binders, compressing said material in said mold by subjecting it to high frequency supersonic vibrations of small amplitude, continuing said vibrations in the absence of external mechanical pressure application until said material is compacted into a self-sustaining article, removing said article from said mold, and firing said molded article in the same form as removed.

2,645,837
**FELT HARDENING MACHINE**
Ralph I. Robbins, Andover, Mass., assignor to American Felt Company, Glenville, Conn., a corporation of Massachusetts
Application September 8, 1950, Serial No. 183,832
13 Claims. (Cl. 28—5)

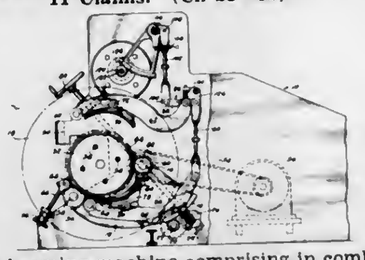
1. In a roller hardening machine of the class described in which means are provided for driving a plurality of rollers in a reciprocatory motion along their respective axes at a relatively high rate of reciprocation, means for substantially preventing the transmission of vibration from said rollers and their driving means to





the frame and other portions of the machine comprising a compensating weight, resilient supporting means between said compensating weight and said frame and additional resilient means attaching said compensating weight to said driving means.

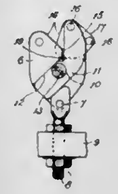
2,645,838
**BEAMING MACHINE**
Fritz Lambach, Tenafly, N. J., assignor to Robert Reiner, Inc., Weehawken, N. J.
Application December 20, 1950, Serial No. 201,760
11 Claims. (Cl. 28—32)



1. A beaming machine comprising in combination: a rotatable brake drum for connection with a beam, a first braking lever including first braking means for cooperation with said brake drum, a second braking lever including second braking means for cooperation with said brake drum, said first and second braking levers being arranged at opposite sides of said brake drum, one end portion of each of said braking levers being swingably mounted on the machine, an actuating mechanism connected with the other end portions of said braking levers for actuating same, and controlling means in said actuating mechanism for causing successively an engagement of said first braking means with said brake drum and, thereupon, an engagement of said second braking means with said brake drum in response to the engagement of said first braking means with the brake drum.

2,645,839
**SLUB CATCHER FOR USE ON TEXTILE MACHINERY**
John Morris Shires, Todmorden, and Bertram Gwynne Foster, Manchester, England
Application December 20, 1950, Serial No. 201,726
In Great Britain October 3, 1950
1 Claim. (Cl. 28—64)

A slub catcher for use on textile machinery, comprising a fixed member mounted on the machine, an adjustable member slidable on said fixed member, closely adjacent parallel vertical edges on said fixed member and on said adjustable member to form a slot of adjustable width to catch slubs on yarn passing through said slot, a pivoted gravity catch on said adjustable member



and a peg on said gravity catch, said peg projecting through a curved slot in said adjustable member to limit the swing of said catch, and a spring fixed at one end on said adjustable member and bearing on said peg to assist the gravity movement of said catch and to prevent any tendency of it to stick.

2,645,840
**BALE TWINE TIE**
Joseph C. Leary, Greenfield, Ind.
Application January 11, 1951, Serial No. 205,450
9 Claims. (Cl. 28—78)



1. A knot for tying together two end portions of twine comprising a central lapping zone of those portions, from which zone the twine extends in outwardly opposite directions by initial three turns each from that zone and extends in inwardly opposite directions by a second set of three turns each from the outer ends of said initial turns to have the ends of said portions terminate across said portions adjacent said zone; said turns having bights over the respective twine portions; and said ends extending through at least one of said bights adjacent said lapping zone across one of said twine portions.

2,645,841
**METHOD OF MAKING HINGES**
Elmer H. Bevens, Los Angeles, Calif.
Application September 3, 1946, Serial No. 694,499
5 Claims. (Cl. 29—11)

1. A method of making flap hinges from a substantially continuous strip of material, consisting in: piercing a portion of said strip at spaced points longitudinally of said strip to partially form a pair of longitudinally spaced rectangular apertures while said portion is located at a first position, the material bounded by the edges of said strip and lines drawn transversely of said strip through said apertures constituting a hinge blank having a reduced portion between said apertures, advancing said strip to locate said blank in a second position, completing the formation of said rectangular apertures and punching a pair of longitudinally spaced holes in said blank adjacent said reduced portion while said blank is in said second position, advancing said strip to locate said blank in a third position and thereafter slitting the material between said holes tangentially thereof to provide a substantially rectangular tab and severing said blank longi-

tudinally of said strip between said apertures to divide said blank into a first and a second leaf member each having an ear formed by said reduced portion and disposed in the plane of said blank, said tab being disposed on said first leaf member, advancing said strip to locate said blank in a fourth position and thereafter bending said tab and said ear of said first leaf member substantially normal to the plane thereof to provide a substantially rectangular opening adjacent said tab, advancing said strip to locate said blank in a

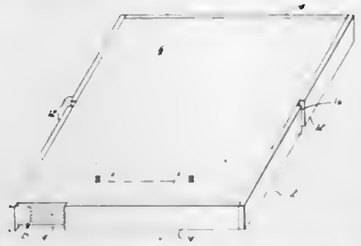


sixth position and thereafter parting said second leaf member from said strip, moving said second leaf member laterally toward said first leaf member in a manner to cause its ear to pass under said crossbar and curling said ear of said second leaf member through said opening and around said crossbar to pivotally connect said first and second leaf members, advancing said strip and said second leaf member parted therefrom, but secured thereto by means of said first leaf member, to a seventh position and thereafter parting said first leaf member from said strip to complete the formation of said flap hinge, and successively advancing and acting upon succeeding blank portions of said strip in a like manner to continuously produce flap hinges.

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**2,645,842**
**MULTIPLE ROLLING OF STRIP**
**Howard S. Orr, Gary, Ind., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application February 28, 1947, Serial No. 731,642**
**3 Claims. (Cl. 29—19)**

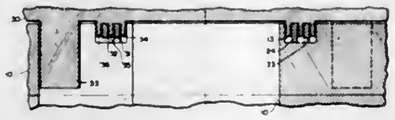
1. The method of hot rolling difficultly rollable alloy steel strips which comprises forming a pile of plates of such alloy steel or steels, providing top and bottom mild steel cover plates on the pile, the cover plates marginally overhanging the pile on its side and end edges, substantially enclosing said pile to form a composite slab by welding side and end bars to the edges of the cover plates, the side and end members being spaced somewhat from the edges of the pile, providing at least one opening through a side edge or end edge of the composite slab large enough to allow free communication between the pile and the atmosphere, providing separating layers of weld preventing material between adjacent members of the pile and between the cover members and the pile by applying to at least one of the two confronting surfaces of adjacent members of the composite slab before their assembly a slurry of finely divided refractory material in water, heating the composite slab to the hot rolling temperature for the components in the pile, hot rolling the heated composite slab in a roughing mill



to plate gauge, thereafter on the same heat reducing such composite rough rolled product on a continuous hot finishing mill wherein the composite product is engaged simultaneously in two or more mill stands of the train, the composite product being rolled being subjected to appreciable tension between the stands of the hot finishing mill, shearing the edges from such finished hot rolled composite product and separating the plies thereof.

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**2,645,843**
**STRAPPED MAGNETRON AND METHOD OF STRAPPING**
**Arnold T. Nordsieck, New York, N. Y., assignor to the United States of America as represented by the Secretary of War**
**Application April 9, 1946, Serial No. 660,605**
**2 Claims. (Cl. 29—25.14)**



1. A method of strapping vane type magnetron anodes comprising forming a strap of conducting material, coating said strap with a fusible conducting outer layer, retaining said strap in a jig means, applying said jig means to the ends of the anode to obtain proper relative placement of the strap connections, fusing said fusible outer layer of said strap in order to obtain bonding between the strap and the anode, and removing the jig means after such bond has been established, said jib means being formed of material which will not bond with the fusible layer of said strap.

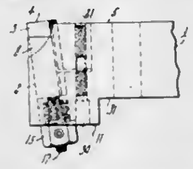
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**2,645,844**
**TOOLHOLDER**
**Nelson R. Longe, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont**
**Application November 17, 1949, Serial No. 127,820**
**5 Claims. (Cl. 29—96)**

5. A tool holder having a lateral passage therein, a tool bit seated in said passage with one end projecting therefrom, said passage having an extension, a wedge block in said extension and movable therein into and out of clamping engagement with said block, said holder having



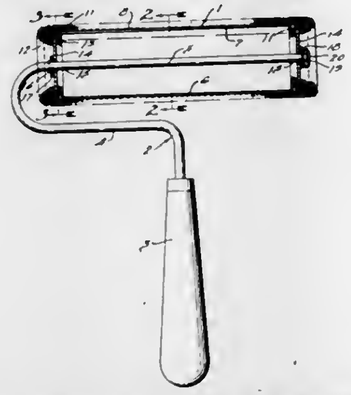
an opening therethrough threaded for a portion of its length, a screw seated in said threaded portion and threaded with a thread of different pitch through said wedge, said screw having both ends formed for engagement with a turning tool, one



of said ends being accessible for engagement for turning from one face of said holder, and the other of said ends being accessible for engagement for turning from the opposite face of said holder.

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**2,645,845**
**ROLLER TYPE PAINT APPLICATOR**
**Michael Peter Vengris, Dearborn, Mich., assignor to The Drum Corporation, Detroit, Mich., a corporation of Michigan**
**Application February 1, 1950, Serial No. 141,784**
**4 Claims. (Cl. 29—116)**

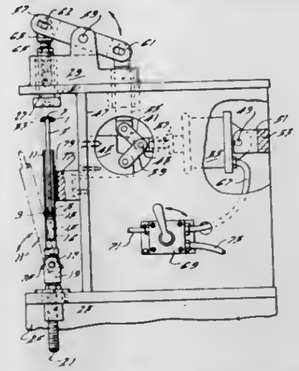


4. In a liquid applicator tool, a cylindrical member having a longitudinally extending slot therethrough, means forming an internal annular groove in each end of said member, a pile fabric cover embracing said member, said cover having the adjacent edges inturned and the inturned edges received within said slot, the opposite ends of said cover being turned in around the ends of said member to overlie said grooves, a metal disk disposed within each end of said member holding the inturned end of the cover within its groove, and means forming aligned central openings in said disks.

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**2,645,846**
**ASSEMBLY DEVICE FOR SHOCK ABSORBERS**
**Keith R. Thompson, Monroe, Mich., assignor to Monroe Auto Equipment Company, a corporation of Michigan**
**Application April 19, 1949, Serial No. 88,248**
**3 Claims. (Cl. 29—244)**

1. Apparatus for attaching parts to opposite ends of a rod that is within a tube comprising a frame, a ram carried by the frame for applying axial compressive forces to the rod, a support carried by the frame and in axial alignment with the ram, said support including a radial shoulder forming a seat for the end of said tube and a portion projecting from said seat toward the ram and fitting within the tube to accurately align it with the axis of the ram, the end of said support within



the tube and nearest said ram forming a seat for the end of the rod remote from said ram whereby the rod is confined between said ram and seat and held in alignment with the ram by said tube mounted on said support.

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**2,645,847**
**DRY SHAVER**
**Frank G. Slonek, Chicago, Ill., assignor to Hazel Cook Hvid, Wilmette, Ill.**
**Application November 18, 1949, Serial No. 128,039**
**13 Claims. (Cl. 30—43)**



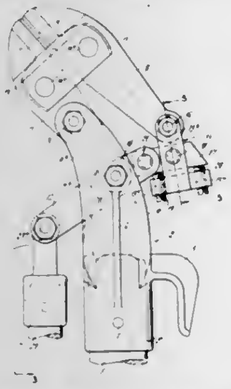
1. A dry shaver comprising a blade carrier of substantially C-shaped cross section having an entirely clear hollow interior space of a diameter equal to a major part of the outside diameter of said carrier, a blade unitarily associated with and carried by said carrier independently of other support and extending along one edge of the gap therein, a cutter tube surrounding said carrier and blade and supported by said carrier in freely rotatable relation thereto, said tube having perforations through its wall forming cutting edges at its internal surface for shearing coaction with said blade, means for securing said carrier and tube against relative axial displacement, and handle means secured to said carrier for effecting shaving movements thereof while permitting said free relative rotation of said cutter tube.

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**2,645,848**
**CUTTING DEVICE**
**Kenneth R. Runde, Lemay, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri**
**Application November 6, 1950, Serial No. 194,297**
**6 Claims. (Cl. 30—177)**

1. A blade adjusting means for a cutting device comprising a pair of cutting blades provided with cutting edges, means for supporting one of said blades for pivotal movement with respect to the other of said blades, and means for subjecting said pivotally mounted blade to pivotal movement, said blade adjusting means being adapted for ad-

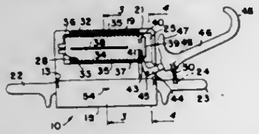
justing the position of the cutting edge of said pivotally mounted blade with respect to the cutting edge of the other blade in order that the cutting edges of said blades will cooperate properly on performance of a cutting operation, and said



blade adjusting means including a pivotally supported bar, and adjusting elements for pivotally altering the position of said bar, said adjusting elements being disposed at opposite sides of the pivot of said bar.

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**2,645,849**
**CUTTING INSTRUMENT**
**Edgar W. Gent, Morristown, N. J.**
**Application December 15, 1949, Serial No. 133,173**
**5 Claims. (Cl. 30—212)**

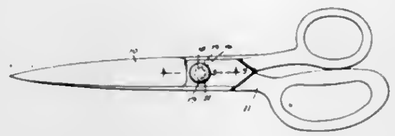


1. A hair cutting implement comprising a plurality of hingedly connected externally concave shaped holding members, each having a comb-like terminal portion adapted to lie in face to face relationship, a blade member mounted between said terminal portions, another blade member in face to face contact with the the first blade member and slidable relative thereto, grip means projecting from one of the holding members, a manually operable lever member pivoted to and extending from one of the holding members and being connected with the slidable blade member and adapted to reciprocate the slidable blade member, and tension means connected with said lever member and one of the grip means to actuate the blade and said slidable lever member into normal rest position upon release of manual pressure on said lever member.

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**2,645,850**
**SCISSORS PIVOT STRUCTURE**
**Edmund L. Sejman, Devon, and Louis Lorenzo, Bridgeport, Conn., assignors to The Acme Shear Company, Bridgeport, Conn., a corporation of Connecticut**
**Application August 4, 1949, Serial No. 108,496**
**1 Claim. (Cl. 30—269)**

In a pair of scissors: a first blade member including a blade part and a handle part, said blade part having an inner cutting surface and an outer backing surface and being provided at its end portion adjacent the handle part with a cylindrical pivot bearing hole extending through it to its inner surface, there being an annular bearing surface extending laterally from and surrounding the outer end of a said hole; a second blade member consisting of a blade part and a handle part, said blade part having an inner cutting surface and an outer backing surface and being provided at its end portion adjacent the handle part with a pivot mounting hole extending through it to its inner surface, there being a flat annular abutment surface upon the inner surface of said second blade part extending laterally from and surrounding the inner end of said pivot mounting hole; a pivot pin including a cylindrical stud portion pivotally engaged in said bearing hole of said first blade part, a head at the outer end of said stud portion having an annular laterally projecting rim including an annular under surface axially facing said annular bearing surface to retain said first blade part in assembled relation with said second blade member, a flat annular shoulder at the inner end of said stud portion extending laterally inwardly



from its periphery and fixedly seated upon said annular abutment surface of said second blade part, and said pivot having a shank portion tightly secured in said mounting hole of said second blade part; and a spring member engaged under tension between the annular under surface of said head and said annular bearing surface; said stud portion between said under surface of said head and said annular shoulder being of a highly exact axial length; said annular bearing surface being axially spaced a highly exact distance from the inner cutting surface of said first blade part, and said spring member being of a dimension and tension predetermined relative to the axial length of said stud portion and the axial spacing between said annular bearing surface and said inner cutting surface of said first blade part, and there being a ridge on the cutting face of each blade member spaced each the same distance rearwardly of said pivot as the other; whereby the cutting and tension relation between the inner cutting surfaces of said blade members are predetermined with high exactitude irrespective of an inexact thickness dimension between the inner and outer surfaces of said first blade part.

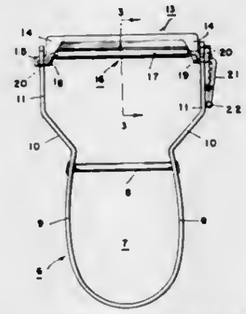
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**2,645,851**
**ADJUSTABLE IMPLEMENT FOR PARING VEGETABLES**
**Arthur Moroni Ferrin, Eden, Utah**
**Application April 23, 1951, Serial No. 222,460**
**3 Claims. (Cl. 30—280)**

1. A paring implement comprising a frame with resilient parallel arms, a cutting blade journaled loosely between said arms, a gauge bar journaled between the arms parallel to the blade, said bar



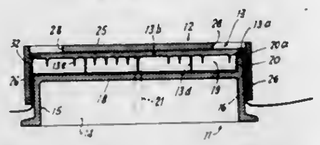
having an intermediate laterally offset gauging portion opposite the blade, and a lever connected



to the bar for variably spacing it relative to the blade.

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**2,645,852**
**DEVICE FOR MAKING BUTTER PATS**
**Maurice J. Weinberg, New York, N. Y.**
**Application August 10, 1948, Serial No. 43,371**
**17 Claims. (Cl. 31—7)**

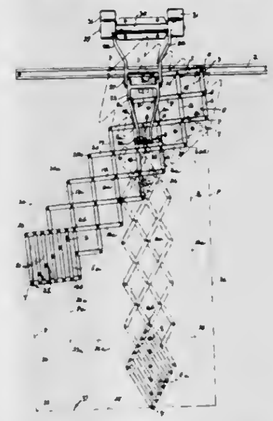


1. A device for making pats from a slab of butter or the like soft plastic material, comprising a base member having a chamber to receive the slab, a cover member telescopically fitted over the base and an impressor plate removably mounted in a fixed position within the cover member and adapted to press against the top of the slab, the cover member being made of synthetic plastic material and the impressor plate being made of metal, at least one of said members being formed with ducts disposed between the sides of the cover member and base member.

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**2,645,853**
**MARKING INSTRUMENT**
**William Kaufman, Great Neck, N. Y.**
**Application October 25, 1951, Serial No. 253,144**
**3 Claims. (Cl. 33—23)**

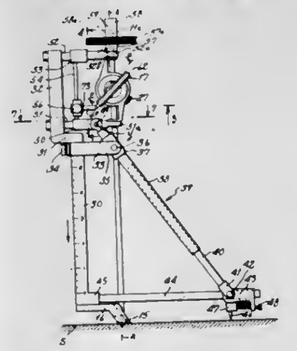
2. A marking instrument which comprises a variable-length arm which has an axis, said arm being associated with a support and overlying a supporting face of said support, said arm having a selected guide-point, guide-means adapted and operative to guide said selected guide-point in a selected straight-line guided path relative to said support, said arm also having a pivot-point and scriber-holding means for holding a scriber and tracer-holding means for holding a tracer, said pivot-point being axially intermediate said tracer-holding means and said guide-point and also axially intermediate said scriber-holding means and said guide-point, and additional guide-means for guiding said pivot-point in a pivot-point-path which is perpendicular to said guided path, said additional guide-means comprising a front frame which has a front lower end, a universal joint connecting said front lower end to said arm at said pivot-point, said front frame also having a rear upper end, a rear frame which has a front upper end, pivot-means connecting said front upper end to said rear upper end of said front frame, said pivot-means being parallel to said first-mentioned guide-means, a pedestal fixed to said table rearwardly of said frames and



of said guide-means, said rear frame also having a rear lower end and additional pivot-means connecting said rear lower end to said pedestal, said additional pivot-means being also parallel to said first-mentioned guide-means.

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**2,645,854**
**INSTRUMENT FOR DRAWING ELLIPSES AND RELATED FIGURES**
**James W. Dibrell, Brooklyn, N. Y.**
**Application April 6, 1950, Serial No. 154,247**
**15 Claims. (Cl. 33—30)**

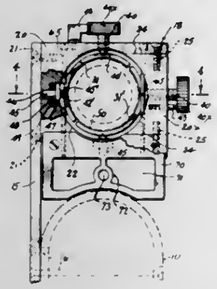


15. A drawing instrument of the class involving circle projection, comprising a locating point, a support therefor, adjustable means including a frame part extending upwardly of the support, coplanar, parallelly extending arms secured to the frame part and arranged to intersect the axis of the locating point, a flat and planar member supported by said arms coaxially with said locating point, a ring member tiltably attached to said flat and planar member, and linked mechanism coupled with said ring member that simultaneously generate a circle lying in a plane at a desired angle with respect to a scribing surface and an ellipse-like figure lying in a plane parallel to and above the scribing surface, the angle of view of the generated ellipse-like figure being determined by the setting of control parts of said adjustable

means which control the tilt of the plane of the generated circle relative to the scribing surface, adjustable amplifying mechanism for following the said ellipse-like figure and scribing means connected to said amplifying mechanism.

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2,645,855
**TELESCOPE MOUNTING FOR RIFLES**
Jessie T. Ivy, Seattle, Wash.
Application October 23, 1951, Serial No. 252,730
2 Claims. (Cl. 33—50)



2. The combination with a gun having a frame portion and a barrel supported thereby, of a telescope mounting means comprising a plate that is fixed to the said frame portion to extend along the barrel, two blocks fixed on the plate in spaced relationship along the barrel, each formed with an opening therethrough and said openings of the two blocks being in alignment for the containing of the barrel portion of a telescope therein, telescope mounting collars contained in the block openings with clearance thereabout, and collar engaging supports adjustably applied to the blocks, said blocks having those side portions thereof that are opposite the mounting plate removably secured to the blocks and removable for the dismounting of the telescope from the blocks.

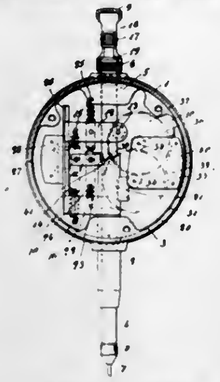
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2,645,856
**TAPE MEASURE**
Aden I. Eyster, Seven Valleys, Pa.
Application December 26, 1946, Serial No. 718,373
1 Claim. (Cl. 33—137)



A tape measure comprising a strip of flexible material coated across its entire width with adhesive material and longitudinally folded upon its median line into two plies in face-to-face contact with their edges in register, said coating of adhesive material forming a continuous layer between the plies adhesively united to each of them and binding them together, the thickness and stiffness of said coated material being small enough to permit folding thereof crosswise into comparatively short lengths adapted to contact flatwise throughout, and measuring marks on the outer surfaces of said plies adjacent the edges of the strip, those upon one surface being in permanent predetermined arrangement relative to those upon the other surface.

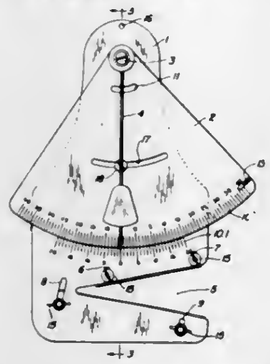
2,645,857
**SHOCKPROOF DIAL INDICATOR**
Gustav Hugo Andersson, Halmstad, Sweden, assignor to Haldex Aktiebolag, Halmstad, Sweden, a company of Sweden
Application December 19, 1950, Serial No. 201,518
In Sweden February 16, 1949
2 Claims. (Cl. 33—172)



1. A dial indicator comprising a frame, a measuring plunger slidably mounted in said frame, a spring actuating said plunger to hold the plunger in a projected position, a sleeve slidable on said plunger, a fixed guide for guiding the sleeve longitudinally of the plunger, means for rotating the plunger in said sleeve, means for transmitting the rotary movement of the plunger into a longitudinal movement of the sleeve comprising a stop member on the plunger and a butt member on said sleeve having an oblique surface for cooperation with said stop member, a spring actuating said sleeve to hold the butt member against said stop member, a pointer shaft, and a gearing for transmitting the longitudinal movement of the sleeve into a rotary movement of said pointer shaft.

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2,645,858
**AILERON GAUGE**
Delbert A. Davis, Centerville, Iowa, assignor of one-half to Harry N. Stamos, Centerville, Iowa
Application December 12, 1949, Serial No. 132,520
16 Claims. (Cl. 33—174)



1. An aileron gauge for airplanes including a vertical back plate with a transverse V-shaped angular opening near the lower end of the plate with edges corresponding to the angles of the top and bottom plates at the rear or trailing edge of an airplane aileron or wing whereby said edges may closely embrace the plates at the trailing edge thereof, a scale carried by the face of the back plate near the lower edge thereof, a pendulum-pointer pivotally mounted upon and near the upper end of the back plate and swingable along the scale in either direction, a fan-shaped scale plate mounted upon the pivot of the pendulum and free to swing thereon parallel to the back plate, a scale formed upon the face of the lower part of the fan plate parallel to the scale upon the back plate, an arcuate slot formed in the fan plate, a bore in the back plate adjacent to said slot and a thumb screw mounted in said slot and bore whereby the fan plate and back plate may be locked in various relative positions.



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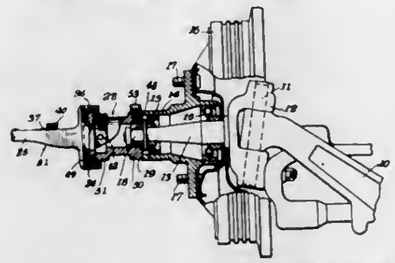
2,645,859
**DEPTH GAUGE FOR CHAIN SAWS**
John M. Hanson, Sr., Alsea, Oreg.
Application June 29, 1951, Serial No. 234,237
2 Claims. (Cl. 33—202)



1. A device of the character described comprising an elongated body having a flat bottom and having a longitudinal recess in the top and extending through one end thereof, an arm centrally pivoted to said body in said recess and extending through the open end thereof, a bifurcated file plate affixed to the outer end of said arm, means for adjusting the plate with respect to said body, and means for indicating said relationship between the body and said plate, said means for adjusting the plate including a compression spring interposed between the lower end of said recess and the inner end of said arm, a cam revolubly mounted in said body and bearing against the underside of said arm adjacent the outer end thereof, means for revolvin said cam, and means for locking said cam in selected position.

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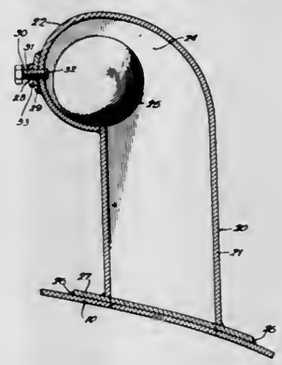
2,645,860
**WHEEL TESTING DEVICE**
John H. Bender and Donald H. Shooter, Maywood, Calif.
Application August 31, 1946, Serial No. 694,176
9 Claims. (Cl. 33—203.18)



1. A wheel checking gauge comprising a body formed with a tubular end and with a flat end extending longitudinally therefrom, a magnet housed in the tubular end and having an exposed face whereby the body is adapted to be mounted magnetically in operative position, a transverse spirit level mounted in the flat end of the body for guiding leveling of the body in operative position, and a pair of generally co-extensive longitudinally disposed spirit levels also mounted in said fl t end and responsive to indicate tilt of the body after leveling thereof.

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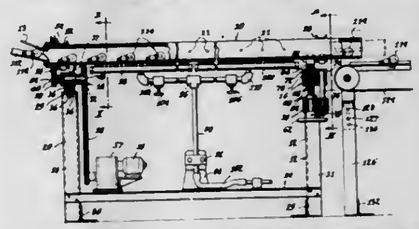
2,645,861
**BALL HAMMER FOR ROTARY DRIERS**
Carl A. Arend, Jr., and William A. Seedorff, Jr., Carlsbad, N. Mex., assignors to International Minerals & Chemical Corporation, a corporation of New York
Application November 7, 1951, Serial No. 255,222
5 Claims. (Cl. 34—85)



1. In an apparatus for drying materials, a rotary drum, at least one hollow tubular housing secured to the exterior of the drum shell with the central axis thereof projecting outwardly from said drum shell, and a heavy ball in said housing of dimensions freely movable within said housing, said housing being closed at one end by the drum shell and closed at the opposite end by an extension of the tubular portion which forms a head member of a size capable of seating said ball and which extension projects to an offset position from the central axis of said housing in a direction opposite from the direction of drum rotation.

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2,645,862
**BAKE OVEN FOR INCANDESCENT LAMPS**
Albert W. Holzer, Arlington, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 22, 1951, Serial No. 247,890
2 Claims. (Cl. 34—105)

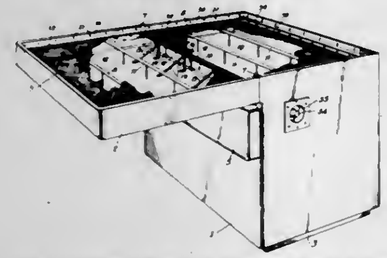


1. Apparatus for curing a varnish sealing band between the bulb and the base of miniature incandescent lamps comprising a rotatable inclinable tubular oven, having forward and rear annular roller channels and an oven spur gear adjacent said rear roller channel, a frame hav-

ing vertical rear and forward pedestals interconnected by a platform, an oven rotating mechanism on the rear pedestal of said frame between said oven and said rear pedestal, said mechanism comprising a housing secured to said rear pedestal, roller arms projecting from the side portions of said housing, guide oven support rollers on said arms for engagement with the rear channel of said oven to prevent longitudinal movement thereof, a driver shaft within said housing, a spur gear on the rearward end of said shaft for engagement with said oven gear, a sprocket wheel on the forward end of said shaft and means for adjustably rotating said sprocket wheel and said shaft, an oven elevator mechanism on the forward pedestal of said frame between said oven and said forward pedestal, said elevator mechanism having a height adjustment screw rotatably secured but vertically fixed to the upper portions of said forward pedestal, an elevator housing in threadable engagement with the upper end of said screw and keyed to said forward pedestal, roller arms projecting from the side portions of said elevator housing, rollers on said arms for engagement with the forward channel of said oven to further prevent longitudinal movement thereof, and manual means on the lower end of said screw for rotating said screw, and a heating system on said frame between said rotating mechanism and said elevator mechanism for heating said oven in a gradually increasing temperature gradient along its length.

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**2,645,863**
**CLOTHES DRIER**
**Willard L. Morrison, Lake Forest, Ill.**
**Application February 9, 1952, Serial No. 270,802**
**18 Claims. (Cl. 34—239)**



1. In a clothes dryer, a housing and a horizontal partition adjacent the top of and partially closing the housing, a suction fan below the partition, a cover pivoted on the housing on a horizontal axis so spaced with respect to the partition and the cover top that when the cover is rotated to open position, the cover top and the horizontal partition are in horizontal alignment, separate screen sections in the cover and in the housing so positioned that when the cover is in the open position these screen sections abut along one edge, are in horizontal alignment and define a suction chamber between the screen sections, the cover top and the horizontal partition, and a suction conduit extending downwardly from the suction chamber to the suction fan.

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**2,645,864**
**SHOE HEEL**
**Joseph G. Ballasch, San Diego, Calif.**
**Application December 14, 1951, Serial No. 261,658**
**1 Claim. (Cl. 36—36)**

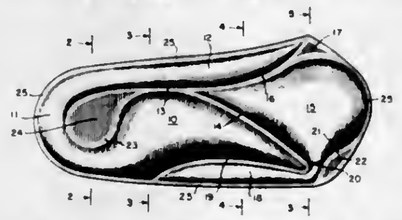
In a detachable and shiftable shoe heel, a circular base member adapted to be affixed to a shoe sole at the heel portion thereof, a plurality of circumferentially spaced headed members mounted in said base with the heads thereof spaced slightly from said base member, a removable and shiftable heel member provided with a series of correspondingly shaped slots having enlarged entrance openings adapted to receive said heads and permit the heel to be angularly displaced so that the headed members are received in the narrower portions of said slots for securing



the heel member to the base, a shiftable latch member extending through a diametrical slot in the shoe heel and having a restricted opening extending inwardly from one side thereof arranged to register with one of the entrance openings of the slots in the heel when said latch is in its projected position, said latch being arranged to lock one of the headed members in the narrower portion of one of the slots when the latch is in its retracted position wherein its opposite ends are flush with the heel member.

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**2,645,865**
**CUSHIONING INSOLE FOR SHOES**
**Edward W. Town, Wildwood, N. J.**
**Application July 25, 1952, Serial No. 300,958**
**5 Claims. (Cl. 36—71)**

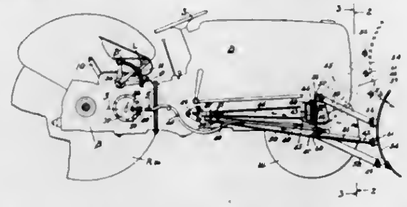


1. A cushioning insole comprising a device shaped in outline to fit a portion of the interior of a shoe, said insole comprising thin sheet members secured to each other at their marginal edges and along intermediate sealing lines, said sealing lines being shaped to provide a centrally located air pocket adapted to be positioned under and support the main arch of the foot, a marginal pocket in communication therewith having a portion extending along the outer edge, a cushioning air pocket located forwardly of the central pocket and separated therefrom by a sealing line, said air pocket being adapted to be disposed under and support the metatarsal portion of the foot, and an air pocket along the inner edge of the device in communication with the metatarsal supporting pocket and separated from the main arch supporting pocket.

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**2,645,866**
**TRACTOR DIRT HANDLING ATTACHMENT**
**Leland T. McGee, Los Angeles, Calif.**
**Application June 16, 1947, Serial No. 754,807**
**3 Claims. (Cl. 37—144)**

1. The combination with a tractor having hydraulic power means as a part thereof, and having a front axle member with front wheels carried at the opposite ends thereof, and a bulldozer member in front of said tractor to be raised and lowered, of two connecting and supporting arms at the opposite outer ends of said axle member, and extended rearwardly along the opposite sides of said tractor body, each of said arms having at its forward end an attaching plate portion having upper and lower pivot connections, two pairs of upper and lower short arms pivotally connected to the back of said bulldozer member at their forward ends, one above the other and toward the opposite ends of said bulldozer member, and pivotally connected at their rearward ends to said upper and lower pivot connections on the forward end of each of said attaching plate portions, and a hydraulic cylinder pivotally connected at its rearward end with its pivot axis in alinement with the axis of said lower pivot connection on said attaching plate portion and having an operating plunger therein with its outer end pivotally connected with the back of said bulldozer member between the connections of each pair of short arms, whereby thrust pressure from said plunger on said bulldozer causes it to be raised.



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**2,645,867**
**IDENTIFICATION TAG FOR CLEANSING OR STORAGE ESTABLISHMENTS**
**Israel K. Sternberg, Lynn, Mass.; Rose Sternberg and Howard Rubin, executors of said Israel K. Sternberg, deceased**
**Application November 25, 1949, Serial No. 129,403**
**2 Claims. (Cl. 40—5)**




1. An identification tag for articles to be cleansed or stored, comprising a relatively pliable body portion having a plurality of openings therethrough for receiving removable index elements, a folded relatively stiff shield embracing a margin of said body portion, a folded spring-wire clip straddling the fold of said shield and having eyes at the free ends thereof, fasteners passing through said shield and body portion and through said eyes for permanently securing said parts together, the fold of said shield having a depressed longitudinal groove therein and having pairs of transverse notches, the spring clip having wire leg portions received in the respective pairs of notches and a resilient tongue on one side of said shield, said groove and said leg portions forming between them a seat for retaining the shank of a safety pin.

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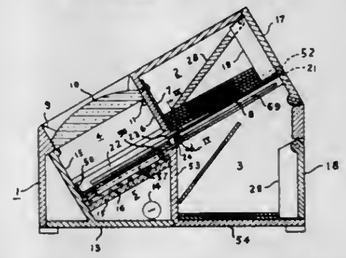
**2,645,868**
**SIGN**
**Walter L. Ernst, Ann Arbor, Mich.**
**Application February 8, 1947, Serial No. 727,319**
**2 Claims. (Cl. 40—77)**



1. A sign comprising a fluorescent light tube, a support means, sockets for mounting the tube carried by said support means, a sleeve journalled upon the tube having transparent portions defining indicia, a flexible element looped on said sleeve for rotating same on the tube, and caps upon said sockets confining said element to engage said sleeve intermediate the ends of the sleeve.

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**2,645,869**
**APPARATUS FOR VIEWING OR PROJECTING COLORED SLIDES OR TRANSPARENCIES**
**Eugene B. Cook, Milwaukee, Wis.**
**Application May 29, 1948, Serial No. 30,145**
**10 Claims. (Cl. 40—79)**



1. An apparatus of the type described comprising wall structures forming an internally partitioned housing positionable to present a first compartment, a second compartment underlying said first compartment, an apertured partition separating said first compartment from said second compartment, a third compartment disposed alongside said first compartment, a second partition separating said third compartment from underlying relation to said third compartment, disposed alongside said second compartment in underlying relation to said third compartment, a common wall separating said fourth compartment from said second compartment, said second partition and common wall presenting adjacent edges disposed in spaced opposed relation, a thin partition member separating said fourth compartment from said third compartment and terminating in a free edge portion disposed intermediate said opposed edges of said second partition and common wall in spaced slot-forming relation thereto, a source of light in said second compartment, a lens forming a wall of said second compartment opposite said apertured partition, a slide carrier supported on an internal wall portion of said housing for reciprocation in generally parallel relation to said apertured partition

and including parts disposed in adjacent over and underlying relation to the top and bottom surfaces, respectively, of said thin partition, said carrier being movable to slide receiving and discharging positions relative to said third and fourth compartments, respectively, and movable to a slide displaying position within said first compartment, and an externally accessible part operatively connected with said carrier for reciprocation of same.

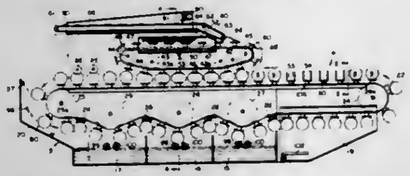
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**2,645,870**

**APPARATUS FOR AUTOMATICALLY TRANSFERRING INDICIA FROM ONE SURFACE TO ANOTHER**

**Arthur L. Smith, La Jolla, and Elmer E. Krueger, Los Angeles, Calif.; said Krueger assignor to Lee-Tex Rubber Products Corporation of California, Inc., Los Angeles, Calif., a corporation of California**

**Application November 20, 1950, Serial No. 198,666**
**7 Claims. (Cl. 41—1)**



3. In apparatus for transferring inked indicia from indicia bearing sheets onto inflated balloons having indicia receiving areas, the combination of a first continuous conveyor carrying longitudinally spaced balloon carriers each having spaced opposed elastic strips for engaging opposite portions of a balloon, a second continuous conveyor carrying longitudinally spaced absorbent pads disposed to bear against the respective balloons carried by said carriers, and means for wetting said pads.

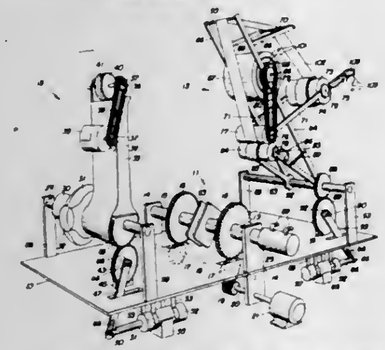
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**2,645,871**

**MACHINE FOR DECORATING SHEET EDGES**

**Wallace L. Bostwick, Columbus, Ohio, assignor, by mesne assignments, to The United States Playing Card Company, Cincinnati, Ohio, a corporation of Ohio, and National Publishing Company, Philadelphia, Pa., a corporation of Pennsylvania**

**Application April 6, 1950, Serial No. 154,370**
**7 Claims. (Cl. 41—7)**



1. A sheet edge decorating device comprising: clamping means having an axis about which it rotates, and adapted to hold a plurality of sheets in side-by-side relation with the respective edges thereof in the same plane whereby to provide a plurality of surfaces made up of sheet edges; means normally urging said clamping means together; means adapted to rotate said clamping means on its axis; a heating roller; means adapted to position a carrier-backed decorative strip, having a heat activated adhesive incorporated therewith, between said surfaces and said heating roller and maintain said strip continuously in contact with said heating roller and said surfaces successively as said clamping means rotates on its axis; said heating roller contacting said decorative strip at the place of its contact with said surfaces as said clamping means rotates; said heating roller being rotated solely by virtue of the rotation of said clamping means and the consequent movement of said decorative strip.

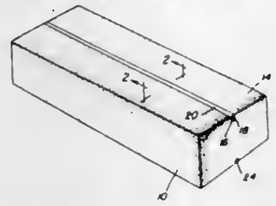
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**2,645,872**

**CORD REINFORCED BASE FOR FLORAL DESIGNS AND METHOD OF MAKING SAME**

**Raymond C. Melander, Ballston Spa, N. Y.**

**Application May 11, 1949, Serial No. 92,617**
**6 Claims. (Cl. 41—12)**



1. A base for floral designs comprising a block of synthetic hardened plastic material reinforcing cordage on at least one side of the block, means to secure said cord throughout its length to said block, said cordage having sufficient tensile strength to prevent elongation of said side of the block longitudinally of the cord.

5. A method of constructing a base of cellular material for floral designs comprising the following steps in the order named, forming a channel in a side of the base, inserting cordage into the channel so that the cordage is tightly held therein throughout its length, and placing a cement in the channel in the cellular material on the outer side of the cordage.

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**2,645,873**

**SLIDE-ACTUATED FIREARM WITH TILTING LOCKING BLOCK**

**Lexie R. Crittendon and Philip R. Haskell, Ilion, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**

**Application January 31, 1950, Serial No. 141,532**
**10 Claims. (Cl. 42—21)**



1. In a firearm comprising a receiver, a barrel, and means defining a locking recess positioned in said receiver in fixed relationship to said barrel, the combination comprising a breech bolt slide supported for reciprocatory movement in said receiver and having thereon an upwardly projecting lug, a breech bolt supported on said breech bolt slide and having extending vertically therethrough a slot defined by substantially planar side and end walls and adapted to receive said slide lug, the lengths of said slot and said lug respectively being such as to enable a limited longitudinal movement of said slide relative to said breech bolt, a tilting locking block vertically confined in said slot in operative relation to said lug solely by engagement between said lug and the surfaces of said receiver and locking recess defining means overlying said slot and laterally confined in said slot solely by engagement between said planar walls of said slot, spaced cam surfaces on the lower side of said locking block cooperating with said lug to tilt said locking block as an incident to the movement of said slide relative to said bolt, and a locking lug on said locking block adapted for interengagement with the said locking recess when said locking block is tilted by forward movement of said slide lug relative to said breech bolt.



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**2,645,874**

**FISHERMAN'S LANDING NET**

**George R. Collins, Denver, Colo.**

**Application December 4, 1950, Serial No. 199,013**
**4 Claims. (Cl. 43—12)**



1. A folding handle for a fisherman's landing net comprising: a handle member having a straight rearward portion and a curved forward extremity; a net tube having a straight forward portion and a similarly curved rear extremity; a hinge member securing the curved extremities of said handle member and said net tube together so that the straight portions of both may be folded into substantially parallel, spaced-apart relation or extended into substantial alignment with each other; a tension spring secured adjacent its rearward extremity to and within said handle member; a plunger slidably mounted in said handle member and secured to the forward extremity of said spring; latch means engaging and locking said plunger at either extremity of its travel; and a flexible member extending from said plunger through said handle member to said net tube which coacts with the spring to constantly urge the net tube to the extended position.

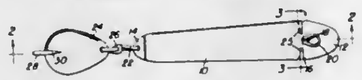
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**2,645,875**

**FISH LURE**

**Arthur S. Chase, Weare, N. H.**

**Application December 11, 1950, Serial No. 200,207**
**2 Claims. (Cl. 43—42.49)**



1. A fish lure comprising an elongated body having notches in its longitudinal edges adjacent one of its ends, said body also having an aperture in one of its ends between said notches, and an eye on the body for connecting a line thereto, said eye being formed from a single length of wire and having an intermediate portion bent to form a loop for receiving a line, said wire passing through the aperture and extending laterally therefrom in opposite directions and having its end portions reversely bent over the body and engaged in the notches the plane of the eye being at an acute angle to the plane of the portions engaged in the notches.

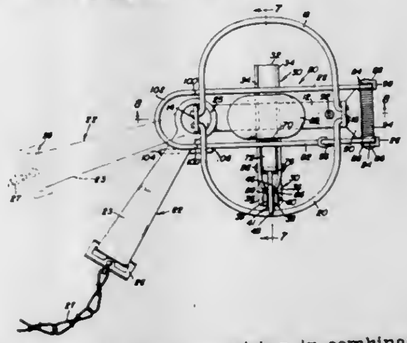
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**2,645,876**

**JAW TRAP LATCH DOG BRACKET PAN ASSEMBLY AND DELAYED-ACTION GUARD**

**Walter J. Bruske, Fall Creek, Wis.**

**Application May 8, 1950, Serial No. 160,787**
**4 Claims. (Cl. 43—92)**



1. A steel jaw trap comprising, in combination, a horizontal base bar, steel jaws having end portions hingedly joined to end portions of said base bar, a chain-equipped V-spring having eyes operatively associated with said bar and jaws, a rigid channel-shaped bracket secured to and extending at right angles from an intermediate portion of said base bar, said bracket embodying a bight portion and side flanges, the latter commensurate in length with said bight portion, a latch dog pivotally mounted for operation between outer end portions of said flanges, a flat pan above said bracket and substantially parallel with said base bar, said pan having a shank terminating in an upstanding trigger which is engageable with said latch dog, that portion of the shank between the pan and trigger being downwardly offset and, when the trap is set, being substantially confined in the channel and shielded by and between said flanges, a narrow gage delayed-action U-guard embodying spaced parallel limbs and a connecting bight connecting corresponding ends of said limbs, said limbs being spring-hinged at opposite corresponding ends to one end of said base bar, said U-guard underlying said jaws with its limbs straddling and spaced from adjacent edges of the pan and with said limbs underlying said jaws and with the bight portion overlying the upper member of said V-spring, one of said limbs overlying the offset portion of said shank, and a projecting finger rigidly secured to and in general alignment with one limb of said U-guard, underlying said bight portion and also underlying said upper member, whereby to provide an embracing catch with which said upper member is releasably engaged.

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**2,645,877**

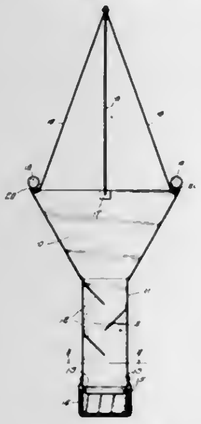
**INSECT TRAP**

**William A. Pohlman, Horicon, Wis.**

**Application December 1, 1951, Serial No. 259,322**
**3 Claims. (Cl. 43—113)**

3. An insect trap comprising: an open-mouth trough having a bottom and means for retaining

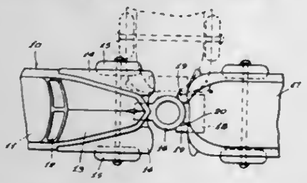
photoactive moths falling into said trough; a plate mounted immediately above the mouth of the trough extending outwardly therefrom, said plate being so positioned that insects impinging against the plate fall into said trough; a signal green fluorescent coating on at least a portion of the surface of the plate, said coating comprising blue toner colored solid pigment particles of 4-amino 1,8 naphthol p-xenylimide dye solvated in polymerized butyl alcohol—modified urea—



formaldehyde resin carrier in the ratio of approximately .01 gram of dye per cubic centimeter of carrier and a transparent resinous vehicle binding the carrier particles; and a light source so arranged and constructed that light rays from the source strike the coating, said source emitting electromagnetic energy of from about 3500 to 4200 wave length angstroms, the peak of the emission being approximately 3650 wave length angstroms so as to selectively attract photoactive moths.

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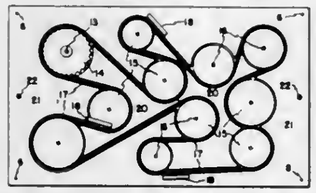
**2,645,878**
**MAGNETIC COUPLING**
**Ancle L. Johnson, Indianapolis, Ind.**
**Application April 7, 1950, Serial No. 154,707**
**1 Claim. (Cl. 46—45)**



A magnetic coupling for wheeled toys comprising an annular band secured to and projecting outwardly in a horizontal plane from one end of a wheeled toy, said band being formed of a material responsive to magnetic attraction, and a permanent magnet secured to and projecting outwardly in a horizontal plane from the other end of an adjacent wheeled toy, said magnet and said band being coplanar and in alignment one with the other, said magnet being substantially U-shaped with its arms extending towards and confronting said band, the inner corners of the free ends of said arms being beveled to form a radius complementary to the radius of said band, said band being rotatable relative to said magnet in a horizontal arc of at least 180 degrees, whereby said wheeled toys may be coupled by magnetic attraction and swung arcuately relative to each other, a portion of the peripheral surfaces of said band always being in engagement with said bevels during a rotation of at least 180 degrees.

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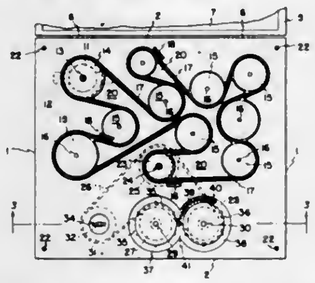
**2,645,879**
**ANIMATED SKATING DEVICE**
**Max Richter, Philadelphia, Pa.**
**Application May 8, 1950, Serial No. 160,677**
**2 Claims. (Cl. 46—45)**



1. The combination of a container having a horizontal partition in its upper portion to subdivide the interior of said container into upper and lower compartments, a motor in the lower compartment having a shaft extending into the upper compartment, a spocket in the upper compartment carried by said shaft, a plurality of idlers carried by said partition, a spocket chain following a circuitous path defined by said sprocket and said idlers, a magnet propelled by and projecting laterally from the upper portion of said chain, substantially continuous surfaces upon the opposite sides of said chain and approximately in the common plane of the upper surfaces of said idlers to slidingly support said magnet, a plate of non-ferrous material forming a closure for said upper compartment, and a magnetically responsive automaton supported by said closure and operative to be moved by said magnet parallel with the path of said chain, said surfaces being formed selectively by removable, normally fixedly positioned interchangeable sets of filler blocks of different shapes in the spaces between adjacent courses of said chain, and together with said idlers providing said magnet-supporting surfaces.

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**2,645,880**
**ANIMATED SKATING DEVICE**
**Max Richter, Philadelphia, Pa.**
**Application September 19, 1950, Serial No. 185,597**
**5 Claims. (Cl. 46—45)**

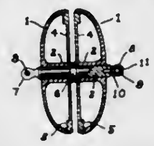


3. The combination of a pair of spaced parallel shafts, a spur disc carried by each of said shafts, a wall spaced radially from said discs and having the general shape of a figure **8**, an elongated, transversely flexible element provided with a magnet engageable by the spurs of said discs alternately as it follows the path defined by and between said discs and the adjacent portions of said wall, said element being in engagement with said wall and at least one of said discs at all times, means connecting said shafts for unified rotation, means to drive said shafts, and a magnetically responsive automaton free to follow said magnet through the path defined by said wall.

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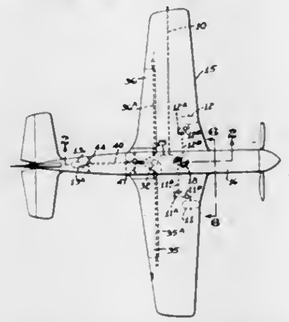
**2,645,881**
**TOP**
**Everett W. Frangos, Lynn, Mass.**
**Application March 8, 1949, Serial No. 80,120**
**4 Claims. (Cl. 46—63)**



1. A top comprising in combination, a body of circular outline and having a shaft projecting axially outward therefrom at one face of the body, a ball-like knob on the free end of the shaft and connected thereto by a reduced neck, and a cord having a hook-like cradle on one end including two hooks spaced apart to receive the reduced neck therebetween and provide a supporting socket for the knob, the knob being of greater diameter than the spacing of the hooks.

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**2,645,882**
**RETRACTABLE LANDING GEAR FOR MODEL PLANES**
**Edgar S. Cook, Redlands, Calif.**
**Application October 21, 1949, Serial No. 122,705**
**7 Claims. (Cl. 46—77)**



7. In an aircraft control of the character described, a source of stored mechanical energy, a crank shaft coupled to said source for rotation thereby, a landing wheel movably mounted on said aircraft from a retracted position therein to an extended position and vice versa, said crank shaft being connected to said landing wheel to move the same, an escapement mechanism coupled to said shaft to normally prevent rotation thereof, said escapement mechanism comprising a locking cam having a plurality of abutments thereon, a retractable dog member normally pressed into engagement with one of said abutments, and a control cable extending from said aircraft and attached to said dog member to move said dog member out of engagement with said one abutment.

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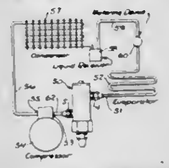
**2,645,883**
**SELF-PROPELLED FLOATING TOY**
**Alfonso de Salvo, Genoa, Italy**
**Application November 14, 1950, Serial No. 195,533**
**In Italy November 26, 1949**
**2 Claims. (Cl. 46—92)**



1. A toy shaped like a swimming object such as a fish, comprising a hollow body closed at its front end and formed at its rear end with an opening, a tube fitted in the opening in the rear end of the hollow body, said tube extending forwardly toward the front closed end of the body, power means enclosed in the forward end of the hollow body including a casing and a crank, the forward end of the tube abutting against the casing to provide a seal, a solid resilient rear end body section formed with a reduced forward end providing a surrounding shoulder, the reduced end of the solid resilient rear body section fitting snugly in the rear open end of the tube and the shoulder abutting against the rear end of the hollow body to form a seal, a vertically disposed fin-like resilient tail formed at the free end of the solid resilient rear end body section, a rod extending through and secured in the solid resilient rear end body section, said rod projecting into the tube, the forward end of the rod being hollow, a connecting rod pivoted to the crank of the power means and loosely reciprocably mounted in the open hollow end of the rod extending from the solid resilient rear end body section, and a vertically disposed pivot pin extending through the rear end of the tube and the rod and the reduced end of the solid resilient rear end body section, whereby when the power means is operated the connecting rod will oscillate the solid resilient rear body section and the vertically disposed resilient tail on the pivot pin and propel the toy forwardly.

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**2,645,884**
**PRESSURE REGULATING VALVE**
**Edward P. Kellie, Detroit, Mich.**
**Application December 1, 1949, Serial No. 130,381**
**15 Claims. (Cl. 50—10)**

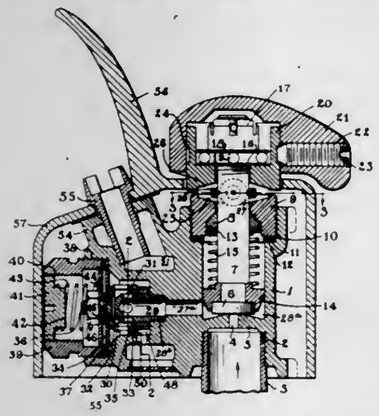


1. In a fluid pressure regulating valve of the type comprising a hollow body divided into first and second chambers, an inlet in the first chamber, an outlet in the second chamber, and a port between said chambers, means for controlling the flow of fluid from said inlet to said outlet comprising fluid pressure responsive means in the second chamber, a first valve for controlling the above said port, a second port in said first valve and smaller than said first mentioned port, a second valve for controlling said second port, a connection between said second valve and said fluid pressure responsive means whereby said second valve moves with said fluid pressure responsive mean as said means moves in response to changes in fluid pressure in said second chamber, and

yieldable means for yieldably supporting and positioning said first valve between said fluid pressure responsive means and said second valve, said yieldable means acting between said second valve, said first valve, and said fluid pressure responsive means and urging said first valve toward closed position when said second valve is moved toward closed position and urging said first valve toward open position when the second valve is moved toward open position, whereby upon a rise in fluid pressure in said second chamber above a predetermined pressure said fluid pressure responsive means moves said second valve toward closed position and said second valve acts through said yieldable means to urge said first valve in a closing direction to thereby restrict fluid flow between the said chambers and whereby upon a fall in fluid pressure in said second chamber below said predetermined pressure said fluid pressure responsive means moves said second valve toward open position and acts through said yieldable means to urge said first valve in an opening direction.

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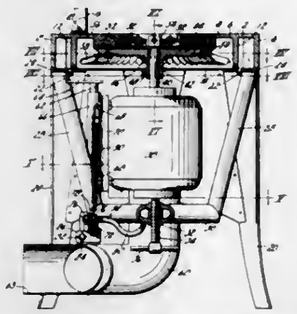
**2,645,885**
**PRESSURE REGULATING VALVE MECHANISM**
**Louis P. Benua and Joseph Leroy Coulter, Columbus, and Richard H. Orthoefer, Worthington, Ohio, assignors to Ebco Manufacturing Company, Columbus, Ohio, a partnership**
**Application April 4, 1946, Serial No. 659,570**
**1 Claim. (Cl. 50—23)**



A pressure regulator valve for drinking fountain bubblers comprising a body formed with a liquid-receiving inlet; passage means in said body arranged to be brought into communication with the inlet; a cylindrical nipple member mounted in said passage means formed with openings communicating with said passage means; a first chamber in said body surrounding said nipple member; a flexible diaphragm in said first chamber; a tubular sleeve member slidably carried on said nipple member and formed with a plurality of radially disposed ports communicating with said first chamber, said sleeve member being connected with said diaphragm and movable therewith to vary the effective size of the openings formed in said nipple member, said diaphragm being movable in response to the pressure of liquids discharged through the openings in said nipple member and into said first chamber to slide said sleeve member in a direction to decrease the effective size of the openings in said nipple member; spring means urging said diaphragm and sleeve member to move in a direction to open the openings of said nipple member; a second chamber in said body, said second chamber surrounding said first chamber and communicating with said first chamber by way of a relatively restricted port formed in said body; and a liquid-discharging outlet in said body circumferentially spaced from said restricted port and communicating with said second chamber.

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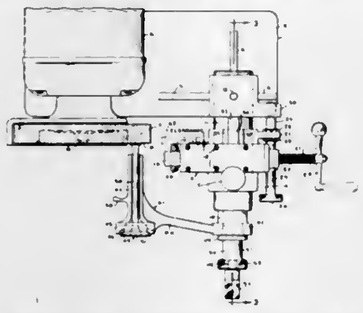
**2,645,886**
**SURFACE GRINDER**
**Delmont R. Peterson, Mission, Kans.**
**Application May 9, 1949, Serial No. 92,117**
**7 Claims. (Cl. 51—54)**



1. A surface grinder comprising a horizontal grinding table, a rigid motor support frame fixed beneath said table, a substantially vertical motor supported slidably at its lower end on said frame, a grinding wheel fixed to the upwardly extended drive shaft of said motor and having its upper surface substantially coplanar with the upper surface of said table, a plurality of vertical guide members supporting said motor horizontally, said guide members being connected at one end to said frame for limited universal movement, and resilient means urging said guide members toward the vertical.

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**2,645,887**
**VALVE STEM GRINDING MACHINE**
**Harry E. Miller, Buffalo, W. Va.**
**Application July 18, 1949, Serial No. 105,418**
**9 Claims. (Cl. 51—124)**



1. A valve stem grinder for grinding the tappet ends of the stems of tappet valves, comprising a support, a rotary abrasive grinding wheel carried by said support, a valve holder movably mounted on said support adjacent to said abrasive wheel and shiftable towards and away therefrom, said holder having a valve-supporting portion and a depth gauge-supporting portion in spaced relation to each other, each of said supporting portions having a seat, one of which seats is adapted to be engaged by the head of a valve during the stem-grinding operation, with the stem projecting towards the abrasive wheel, an adjustable depth gauge removably seated upon the other seat of said valve holder during the stem-grinding operation and movable with said holder, said depth gauge having an inner end projecting inwardly from the seat in the depth gauge-supporting portion in parallel relation to the valve-supporting portion, and a relatively fixed abutment carried by the first-mentioned support for abutting engagement with the inner end of said depth gauge to limit the movement of the holder and the valve being ground according to any pre-selected setting of the depth gauge in the valve position in an engine to the measurement from the valve seat to the tappet of the engine, said valve holder including a hollow supporting member axially extended from one side of the depth gauge engaging seat, said supporting member being slidably mounted in a fixed support carried by said first-mentioned support, with the inner end of said depth gauge extended coaxially through the hollow supporting member of the holder.



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**2,645,888**
**BUFF SECTION MANUFACTURE**
**Frederick H. Thompson, Fremont, Ohio, assignor to The Yerges Manufacturing Company, Fremont, Ohio, a corporation of Ohio**
**Application October 1, 1951, Serial No. 249,077**
**2 Claims. (Cl. 51—193)**

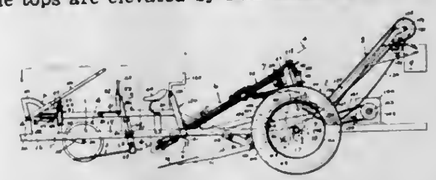


1. A method of manufacturing a buffing wheel from a plurality of single ply fabric disk sheets, comprising: separately pushing the center of each sheet through a tubular element to form each sheet into an irregularly fluted conical member of fabric with the apex at the center of each sheet, radially arranging said conical members in a common plane in a circle with their apices adjacent each other to form a circular disk of said members, placing said disk of members between a pair of flat adhesive coated disks to maintain the radial location and relative position of said members in said plane, and then stitching said flat disks to each of said members whereby the center of said flat disks adjacent the apices of said members forms the axis of said buffing wheel.

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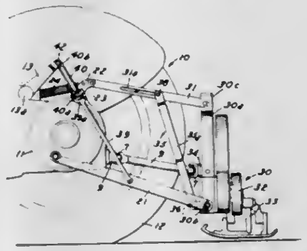
**2,645,889**
**COACTING ENDLESS CHAIN TYPE ONION HARVESTER**
**Thomas R. Warner, Gonzales, Calif.**
**Application September 14, 1949, Serial No. 115,591**
**11 Claims. (Cl. 55—108)**

1. An onion harvester comprising a vehicle having a main frame and ground wheels supporting said main frame for movement in one general direction of travel over the ground, an auxiliary frame having a front end and a rear end and with the latter end supported on said main frame and with its front end leading relative to said direction of travel, elements spaced apart relative to said direction of travel and carried by said auxiliary frame adjacent its front end adapted to engage below the opposite sides of the tops of onions and elevate said tops when said tops are on the ground and the onions are in the latter, a top gripping conveyor extending slantingly rearwardly and upwardly from said elements for gripping the tops of onions when the tops are elevated by said elements and during forward movement of said main frame over the ground for pulling the onions from the ground, and means supporting said auxiliary frame on said main frame for lateral movement of its front end oppositely relative to said main frame, as desired, during said forward movement, and means carried by said main frame and connected with said auxiliary frame for so moving the front end of said auxiliary frame, said elements and said conveyor being movable with said auxiliary frame.



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**2,645,890**
**EXTENSION LINK FOR MOWERS**
**Raymond T. Spedding, Detroit, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware**
**Application October 28, 1950, Serial No. 192,797**
**1 Claim. (Cl. 56—25)**

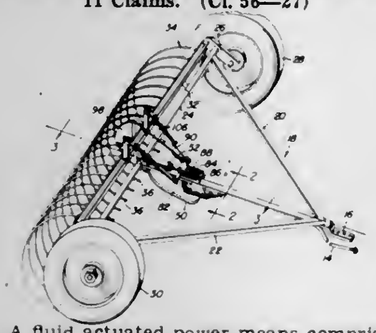


In combination with a tractor and a power-take-off powered implement, said tractor having a pair of power-actuated rock arms movable through a fixed arcuate path of predetermined range, a pair of trailing lower draft links pivoted to the tractor, a pair of link arms respectively connected to said draft links and adapted for normal connection to said rock arms to power-lift said draft links through an arcuate range determined by the range of movement of said rock arms, and power-take-off shaft located centrally and rearwardly of said tractor, said implement being pivotally connected to the free trailing ends of said draft links, and universally jointed extensible shaft means connecting said tractor power-take-off shaft and said implement; the improvements which comprise lift arm extension elements interposed between and joining said lift arms and said rock arms to decrease the normal height to which said draft links would be elevated upon power lifting of said rock arms to the highest extent of rock arm movement, a

top link joining said tractor to said implement, said top link being located intermediate and above said draft links, a limit arm pivoted to said implement and projecting therefrom, and means joining said limit arm to said top link for relative lost motion movement upon elevation of said draft links, said means being fixedly engageable with said top link when said implement is lowered through less than the full range of movement of said lower links to prevent further lowering of said implement, whereby said extension elements and said last named means, in combination, are effective to limit movement of said implement relative to said tractor so that the angular displacement of said extensible shaft means is maintained within desired operating limits while accommodating elevation of said rock arms to the upper limits of movement thereof.

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**2,645,891**
**HYDRAULICALLY OPERATED POWER RAKE**
**Howard L. Berkley, Billings, Mont.**
**Application April 5, 1949, Serial No. 85,591**
**11 Claims. (Cl. 56—27)**

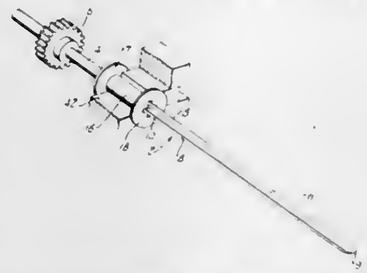


1. A fluid actuated power means comprising a frame, a guide carried by said frame, a crosshead having ends slidably engaged with said guide and said crosshead having a ratchet thereon, a hydraulic inlet and outlet line adapted for connection with a tractor control valve, a dog pivoted to said frame operatively engaging said ratchet to retain said crosshead in selected positions, a valve carried by said frame and having said line connected therewith for operation of said valve, said valve including a case and a plunger, said dog being operatively connected with said plunger, a cylinder carried by said frame, a piston slidably engaging the cylinder, a single conduit extending from said cylinder to said case for conducting fluid from said valve to said cylinder, means connecting said piston with said crosshead for movement of said crosshead in response to movement of said piston, and means operatively connected to said crosshead and adapted to be connected to a tool holding angle pivoted on the frame for pivoting the angle about its pivot, and resilient means connected to the ends of the crosshead and reacting on said crosshead and adapted to react on an angle pivoted on the frame for constantly urging said angle pivotally about its pivot.

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**2,645,892**
**COTTON-PICKING SPINDLE AND STRIPPER THEREFOR**
**Albert W. Weems, Meridian, Miss.**
**Application September 12, 1950, Serial No. 184,356**
**3 Claims. (Cl. 56—50)**

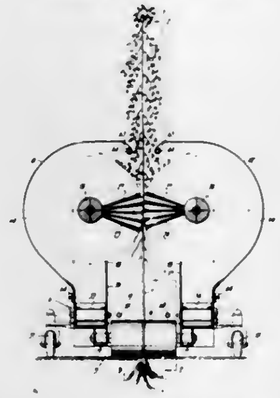
1. In a cotton picking machine, in combination, a substantially cylindrical spindle provided with longitudinally and radially extending ribs having substantially parallel sides and defining longitudinally extending, substantially V-shaped grooves between them, the outer edges of at least two of said ribs being provided with serrations; an annular stripper slidable on said spindle, said stripper being provided with a substantially flat stripper face and having an axial opening there-



through conforming in cross-section to that of said spindle, but slightly larger than the spindle, said stripper providing inwardly extending corners which project radially inwardly into said grooves and between said ribs, said corners being adapted to engage under the pattern of fibers wrapped around the spindle and cooperating with the flat face of the stripper, to push a load of cotton off the spindle.

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**2,645,893**
**HOP PICKING MACHINE**
**Emil Clemens Horst, Jr., San Francisco, Calif., assignor to E. Clemens Horst Company, San Francisco, Calif., a corporation of New Jersey**
**Application May 1, 1950, Serial No. 159,192**
**5 Claims. (Cl. 56—126)**

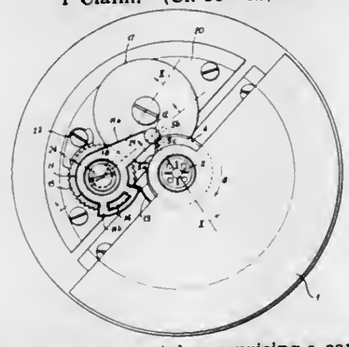


1. A hop picking machine comprising a frame adapted to be advanced along a row of hop vines growing in a field, said frame defining a passageway extending vertically therethrough and open at the forward end thereof, said passageway being substantially symmetrical on either side of a longitudinal vertical plane bisecting said passageway, a ground engaging roller mounted on said frame at the rear of said passageway for pulling said vines downwardly through said passageway as said frame is advanced, a pair of circular cylindrical brushes each including a hub having a journal at each end and having a plurality of bristles extending outwardly from and axially along said hub, the peripheral surface of each of said brushes forming a substantially continuous circular cylindrical envelope and being substantially tangent to said vertical plane, said hub journals being mounted in corresponding bearings affixed to said frame for rotation of said brushes in a direction opposite to the motion of said hop vine through said passageway, side plates on said frame on opposite sides of said passageway and extending vertically from each side of said roller substantially to intersect said brush envelopes, and defining with the bottom portion of said envelopes a substantially uninterrupted passageway for the passage of said hop vine, and means for driving said brushes.



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**2,645,894**
**WINDING MECHANISM FOR SELF-WINDING WATCHES**
**Marc Philibert Huguenin, Geneva, Switzerland, assignor to Montres Rolex S. A. (Rolex Watch Co. Ltd.), a corporation of Switzerland**
**Application January 26, 1949, Serial No. 72,857**
**In Switzerland June 10, 1948**
**1 Claim. (Cl. 58—82)**

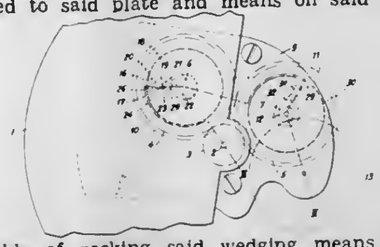


In a self-winding watch comprising a cam controlled by a winding weight, a swinging lever the oscillations of which are produced by said cam, a ratchet wheel belonging to the winder of the watch and mounted coaxially with said swinging lever, a toothed sector on said lever, coaxial with said ratchet wheel and carrying inwardly directed ratchet teeth intended to engage with said ratchet wheel, a double acting spring cooperating with said lever for applying it against said cam and for engaging the teeth of the toothed sector with said ratchet wheel, a pivot for said lever, this latter being mounted on said pivot by means of a hole of elongated cross-section, the eccentrical part of said hole lying opposite said toothed sector, whereby said lever can move radially with respect to said ratchet wheel, against the action of said spring, and thus disengage the toothed sector from said wheel.

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**2,645,895**
**SELF-WINDING WATCH MECHANISM**
**Georges Dubois, Granges, Switzerland, assignor to A. Schild S. A., Granges, Switzerland, a corporation of Switzerland**
**Application September 16, 1952, Serial No. 309,834**
**In Switzerland October 24, 1951**
**7 Claims. (Cl. 58—82)**

1. In a self-winding watch, a barrel arbor, a weight member mounted for rocking movement and a free-wheel mechanism comprising an axle, a wheel loose on the axle, a coaxial circular indentation in said wheel, a plate in said indentation loosely embracing said axle and adjoining the inner wall of said indentation, a wedging member slightly longer than a radial line extending from the axle surface to said inner wall and hinged to said plate and means on said axle



capable of rocking said wedging means into wedging contact with said inner wall, said free-wheel mechanism being inserted between, and operatively connecting for power transmission, said weight and said barrel arbor.

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**2,645,896**
**24-HOUR DIRECT-READING CLOCK**
**Eric J. Uhlig, Haddon Heights, and John R. Lewis, Collingswood, N. J., assignors to Wickes Engineering and Construction Company, Camden, N. J., a corporation of New Jersey**
**Application June 6, 1952, Serial No. 292,072**
**8 Claims. (Cl. 58—125)**



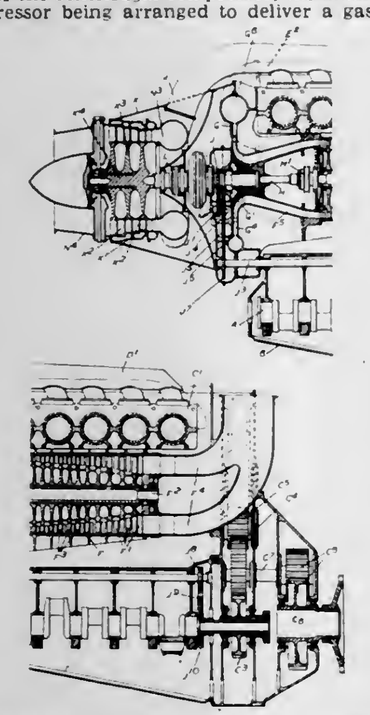

1. In a 24-hour direct-reading clock or the like, the combination comprising an hours drum having the numbers 0 through 9 thereon, means operative once per hour to advance said drum one number, a tens of hours drum having the numbers 0, 1 and 2 thereon, a Geneva mechanism operatively interposed between said drums to advance said tens of hours drum at least once during every complete cycle of the hours drum, and transfer means operative responsively to a predetermined relative position of said hours and tens of hours drums to lock them together and quickly rotate them substantially 216 degrees.

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**2,645,897**
**RECIPROCATING INTERNAL-COMBUSTION ENGINE OPERATING ON THE TWO-STROKE CYCLE WITH EXHAUST TURBINE**
**Herbert Sammons, Gerrards Cross, England, assignor to D. Napier & Son Limited, London, England, a company of Great Britain**
**Application April 3, 1950, Serial No. 153,526**
**In Great Britain April 11, 1949**
**4 Claims. (Cl. 60—13)**

1. A power unit comprising a reciprocating internal combustion engine operating on the two-stroke cycle and including in combination three crankshafts the axes of which are parallel to one another and lie on the apices of an equilateral triangle, crankcases supporting the crankshafts, a cylinder block extending between each adjacent pair of crankcases and including open ended cylinders having inlet and exhaust ports at longitudinally displaced points in their walls, two pistons in each cylinder connected respectively to

the crankshafts in the two crankcases between which the cylinder extends and acting respectively to uncover the inlet and exhaust ports at the ends of their outstrokes, exhaust passages leading from the exhaust ports, inlet passages leading to the inlet ports, a centrifugal compressor arranged to deliver a gaseous charge to the inlet passages, an axial flow compressor housed at least partially in the approximately triangular space enclosed between the three cylinder blocks the rotor of which is co-axial with that of the centrifugal compressor, the axial flow compressor being arranged to deliver a gaseous



charge to the inlet of the centrifugal compressor, an elastic fluid turbine arranged co-axially with the centrifugal compressor and the axial flow compressor and arranged to receive working fluid from the exhaust passages, the centrifugal compressor lying between the turbine and the axial flow compressor and having a hollow rotor shaft through which passes a shaft by which the turbine rotor is directly connected to the rotor of the axial flow compressor, and a transmission device by which power can be transmitted between the rotor of the turbine and the rotor of the centrifugal compressor.

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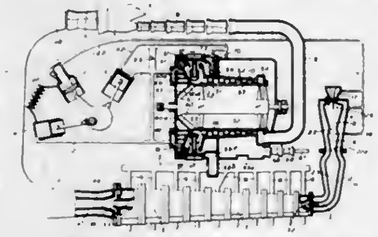
**2,645,898**

**COMBUSTION CHAMBER HAVING A SERIES OF EXPANSION CHAMBERS**

**Romuald Hurtaj, London, England**

**Application September 25, 1947, Serial No. 776,007**
**In Great Britain June 14, 1946**
**1 Claim. (Cl. 60—35.6)**

In apparatus for the production of a burning gaseous medium for discharge from the jets of a jet propulsion unit, a gas generating chamber, means for maintaining within said chamber a helically swirling stream of air at high pressure, means for maintaining an ignition flame extending through said air stream axially of said chamber, means for injecting liquid fuel into the air stream in the same helical direction as said air stream whereby it is atomized by its contact with the air, and whereby a part of said atomized fuel is spread centrifugally over the wall of the generating chamber so as to be heated and vapourized by its contact therewith while another part of said atomized fuel is vapourized and ignited by said ignition flame, a combustion chamber comprising a series of axially aligned expansion chambers each having an axial flow path of circular cross section, means for supplying air from a common source concurrently to all of said expansion chambers, each of said expansion chambers comprising a passage extending axially therethrough of a cross section varying from the inlet to the outlet ends



thereof and with the outlet end of one chamber projecting into but radially spaced from the inlet end of the adjacent chamber, a swirl plate having a central opening mounted on the outlet end of each chamber, each swirl plate having a plurality of slots positioned tangentially with respect to the central opening, each of said slots having a constricted discharge orifice opening into the central opening for directing the flow of air in a swirling manner into the axial passage of the chambers, means for introducing a burning mixture of air, combustion gases and fuel vapour from said gas generating chamber into said series of expansion chambers for flow therethrough, and means for cooling the products of combustion before they are conveyed to the jets of the propulsion unit.

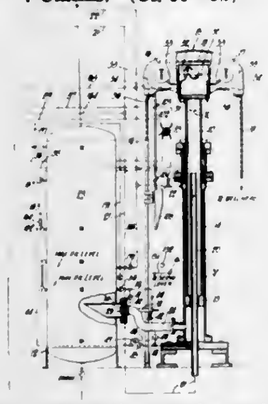
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**2,645,899**

**HYDROPNEUMATIC PUMPING UNIT**

**T Dwight Aller, San Gabriel, and Paul E. Noll, Pasadena, Calif., assignors to United States Steel Corporation, a corporation of New Jersey**

**Application December 6, 1950, Serial No. 199,504**
**7 Claims. (Cl. 60—52)**



5. A hydro-pneumatic pumping unit comprising a cylinder, a ram carried for reciprocable



movement in said cylinder, means for connecting a string of sucker rods to said ram, pneumatic means for applying a counterbalancing force to said ram, a valve for automatically shutting off this counterbalancing force in the event of a sudden release of the load on the ram, a motivating pump having delivery pipes connected to said cylinder for supplying hydraulic fluid to reciprocate said ram, and electric switch means operated by said valve for automatically stopping said motivating pump when said valve shuts off the counterbalancing force from said ram.

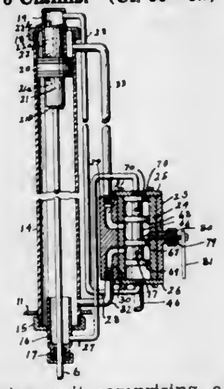
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**2,645,900**

**HYDRAULIC TYPE FLUID TRANSMISSION**

**Loyd E. Hutchison, Houston, Tex.**

**Application April 5, 1947, Serial No. 739,601**
**6 Claims. (Cl. 60—52)**



1. A pumping unit comprising, a power cylinder, a piston therein, means for connecting the piston to a well pump, a pressure controlling assembly operable by fluid pressure, pressure cylinders, one at each end of the power cylinder, plungers on the piston arranged to work in the respective pressure cylinders conduits leading from the assembly and entering the power cylinder on opposite sides of the piston, a pressure line entering said assembly and a return line leading from the assembly, said assembly including controlling means operable to connect one of said conduits with the pressure line and the other of said conduits with the return line, pressure applying conduits, pressure applying means operable by the piston for applying pressure through said conduits, alternately, to opposite sides of the controlling means whereby application of pressure to opposite sides of the piston will be effected alternately.

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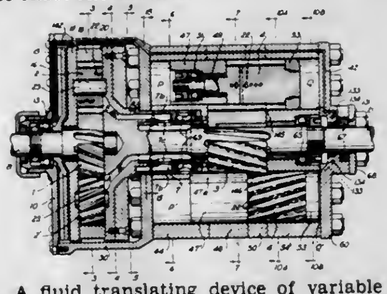
**2,645,901**

**ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION**

**Douglas A. Elkins, Salt Lake City, Utah**

**Application July 27, 1948, Serial No. 40,847**
**19 Claims. (Cl. 60—53)**

10. A fluid motive device of variable capacity, comprising intermeshing gears establishing at least two zones of constant mesh and one or more zones of variable mesh; fluid-flow passage means serving all of said zones in common by parallel connections; auxiliary fluid-flow passage means cross-connecting said zones of constant mesh; valve means controlling fluid-flow from said first passage means into said zones of constant mesh; and valve means controlling fluid-flow through said auxiliary passage means, whereby the device is capable of zero net capacity when said first valve means are closed and said second valve means are open, the zones of constant mesh being thereby rendered effective to offset one another.



11. A fluid translating device of variable capacity, comprising a fluid-tight housing defining fluid-pressure chambers therein; a set of at least three variably intermeshed gears disposed within said housing, said gears having seal-line helical teeth providing for the progressive establishment of a line of contact around the profiles of intermeshing teeth to control the flow of fluid axially through the tooth spaces of intermeshing teeth and to substantially prevent fluid leakage by lacing past the exposed ends of said teeth; means rotatably mounting one of said gears in fixed position within a fluid-pressure chamber of said housing, providing an outside power connection for the device; at least two closed-ended cylinders paralleling and opening into said one gear, the other gears of said set of gears being respectively fitted within said cylinders in intermeshing relationship with the said one gear and for back and forth movement along their respective cylinders into lesser or greater intermesh with said one gear; piston-like sealing members respectively secured to said other gears at opposite ends thereof; respective abutment stops limiting back and forth movement of said other gears to establish respective zones of constant minimum intermesh and respective zones of variable intermesh for said gears, said zones of minimum intermesh having respective axial lengths sufficient to maintain a substantially complete and continuous seal-line between the intermeshing teeth thereof, and those piston-like members which are disposed at those ends of said other gears which follow in the out-of-mesh movement being arcuately recessed to contact the tooth tips of the non-meshing portions of the said one gear, and being rotatably secured to their respective other gears; and a fluid-circulatory system, said system comprising fluid-inlet and fluid-discharge ports, sets of oppositely disposed ports opening into the respective zones of variable intermesh, fluid-flow passage ways interconnecting one set of functionally corresponding ports of the said sets of ports with one of said inlet and discharge ports, and other fluid-flow passageways interconnecting the remaining set of functionally corresponding ports of said sets of ports with the other of said inlet and discharge ports, further sets of oppositely disposed ports opening into the respective zones of constant minimum intermesh, fluid-flow passageways interconnecting one set of functionally corresponding ports of said further sets of ports in parallel with the first-named set of corresponding ports of said first-named sets of ports, other fluid-flow passageways interconnecting the remaining set of functionally corresponding ports of said further sets of ports in parallel with the second-named set of corresponding ports of the said first-named sets of ports, fluid-flow passageways cross-connecting those ports of said fur-

ther sets of ports which are functionally opposite as between the several said further sets of ports, respective shut-off valves interposed in said parallel-connecting fluid-flow passageways, other respective shut-off valves interposed in said cross-connecting fluid-flow passageways, means for operating the first-named valves, and means for operating the second-named valves.

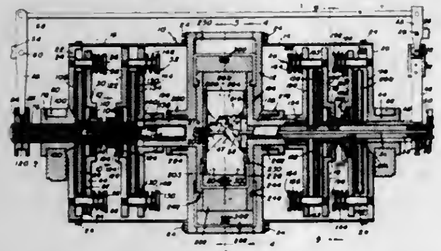
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**2,645,902**

## ROTARY PUMP AND MOTOR FLUID TRANSMISSION

**Robert A. Pyle, Lapeer, Mich.; Betty Pyle, executrix of said Robert A. Pyle, deceased**

**Application August 17, 1949, Serial No. 110,863**
**13 Claims. (Cl. 60—53)**



1. In a fluid pump and motor transmission, an outer case having a motor chamber therein, a variable ratio fluid pump disposed in said motor chamber and including a pump reaction member and a pump rotor, said reaction member having a pump chamber therein in which said pump rotor is disposed and passages connecting the pump chamber to the motor chamber, a drive shaft fixed to said pump rotor, a driven shaft carried by the outer case, a first holding assembly operatively connected for coupling said outer case with said driven shaft, a second holding assembly operatively connecting said reaction member with said driven shaft, and means secured to said holding assemblies for operating the same.

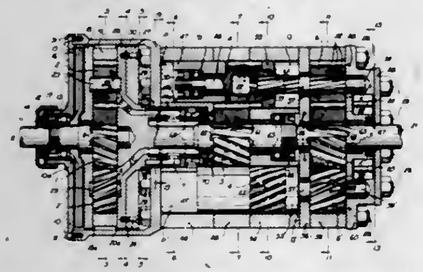
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**2,645,903**

## VARIABLE RATIO ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION

**Douglas A. Elkins, Salt Lake City, Utah**

**Application February 20, 1947, Serial No. 729,731**
**20 Claims. (Cl. 60—53)**



1. An infinitely variable power transmission, comprising a stationary housing; two independent power shafts rotatably mounted in said housing; fixed displacement fluid motive means coupling said power shafts together for the transmission of rotative motion from one to the other at varying relative speeds; gear-type, variable displacement, fluid motive means coupling one of said power shafts to said housing for action either as a fluid motor or a fluid pump as the case may be; a second fixed displacement fluid motive means coupling the said one power shaft to said housing; means interconnecting said second fixed displacement fluid motive means with said variable displacement fluid motive means as a timer for the latter; a fluid circulatory system operatively interconnecting the first fixed displacement fluid motive means, the said variable displacement fluid motive means, and the said second fixed displacement fluid motive means; principal valve means controlling flow of fluid through said circulatory system; auxiliary valve means disposed in said circulatory system between said variable displacement fluid motive means and said second fixed displacement fluid motive means, for bringing said second fixed displacement fluid motive means into operation in the system as a fluid motor or fluid pump, as the case may be; and means for varying the displacement of said variable displacement fluid motive means during operation of said transmission.

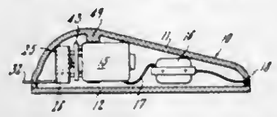
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**2,645,904**

## APPARATUS FOR PRODUCING COMPRESSED AIR FOR OBTAINING VIBRATORY AIR MOVEMENTS THEREFROM

**Walter Bernardoni, Rome, Italy**

**Application February 21, 1948, Serial No. 10,124**
**In Italy August 8, 1947**
**5 Claims. (Cl. 60—62.6)**



1. In an apparatus for the production of compressed air serving to control automatic needles to mend stockings and like knitted fabrics; the combination of a housing, a motor having a shaft and supported within said housing, an air compression cylinder closed at one end and disposed within said housing, a reciprocable piston within said cylinder, said piston being provided with a recess, coupling means extending from said motor shaft to said piston whereby reciprocable movement may be imparted to said piston from said motor, a ball bearing within said recess and movable relatively to said piston, said coupling means including a cam fixed to said shaft and extending into said ball bearing in said recess, tube means connected to said cylinder and communicating with a space defined by said piston and said one end of said cylinder, and adjusting means inserted in said tube means to regulate contemporaneously compressed air from said cylinder and supply of air to said cylinder.

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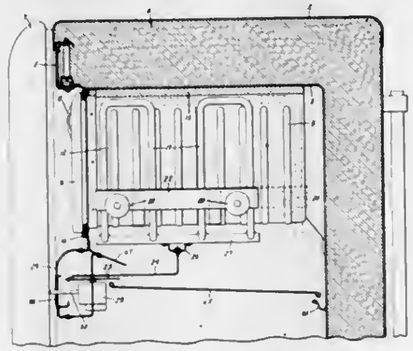
**2,645,905**

## ELECTRIC DEFROSTING ARRANGEMENT FOR REFRIGERATORS

**Leonard W. Atchison, Erie, Pa., assignor to General Electric Company, a corporation of New York**

**Application November 15, 1950, Serial No. 195,858**
**8 Claims. (Cl. 62—1)**

1. In a refrigerator including a cooling unit upon which frost collects, a heating element spaced from the wall of said cooling unit, the heat radiating surface of said heating element being relatively smaller than said wall, said element being movably mounted for movement parallel to said wall, mechanism effective when operated for reciprocating said heating element



parallel to said wall for melting frost therefrom, and means for periodically operating said mechanism and energizing said heating element.

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**2,645,906**

## LIQUEFIED PETROLEUM GAS FUEL SYSTEM

**Martin A. Ryan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application January 2, 1951, Serial No. 203,968**
**2 Claims. (Cl. 62—1)**



1. An improved liquefied petroleum gas fuel system comprising in combination a liquefied petroleum gas storage vessel; a first pressure actuated valve assembly comprising a first fluid passage chamber having a wall therethrough which separates said first fluid passage chamber into two sections, a first valve seat member affixed in said wall and having a fluid passage extending through said first valve seat member and said wall from one first fluid passage section to the other, a first valve normally seated on said first valve seat member, a first pressure chamber mechanically connected to said first fluid passage chamber, first pressure responsive actuator means mounted in said first pressure chamber and connected to said first valve, first adjustable pressure balance means mounted in said first pressure chamber and adapted to exert force against one side of said first pressure responsive actuator means so as to urge said first valve closed against said first valve seat member; first gas conduit means extending from the top side of said storage vessel to said first pressure chamber and adapted to provide gas under pressure against one side of said first pressure responsive actuator means so as to urge said first valve away from said first valve seat member; second gas conduit means extending between the top side of said storage vessel and a first section of said first fluid passage chamber; a second pressure actuated valve assembly comprising a second fluid passage chamber having a wall therethrough which separates said second fluid passage chamber into two sections, a second valve seat member affixed in said wall and having a fluid passage extending through said second valve seat member and said wall from one fluid passage section therein to the other, a second valve normally unseated from said second valve seat member, a second pressure chamber mechanically connected to said second fluid passage chamber, second pressure responsive actuator means mounted in said second pressure chamber and connected to said second valve, second adjustable pressure balance means mounted in said second pressure chamber and adapted so as to exert a greater force against one side of said second pressure responsive actuator means than is exerted by said first pressure responsive means so as to urge said second valve away from said second valve seat member; third gas conduit means extending between the top side of said storage vessel and one side of said second pressure responsive actuator means so as to urge said second valve closed against said second valve seat member; fourth conduit means extending between the bottom side of said storage vessel and a first section of said second fluid passage chamber; a vaporizer; fifth conduit means extending from the second section of said second fluid passage chamber through said vaporizer to an internal combustion engine; a constant pressure valve in said fifth conduit means downstream of said vaporizer; and sixth conduit means connected between the second section of said first fluid passage chamber and said fifth conduit means upstream of said constant pressure valve.

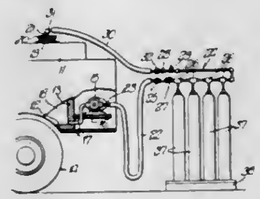
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**2,645,907**

## APPARATUS AND METHOD FOR FILLING CONTAINERS WITH PREDETERMINED QUANTITIES OF GAS

**Paul F. Droste, Glen Ellyn, Ill., and Howard J. Hill, deceased, late of Millvale, Pa., by Charlotte R. Hill, administratrix, Millvale, Pa., assignors to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware**

**Application May 14, 1951, Serial No. 226,176**
**14 Claims. (Cl. 62—1)**



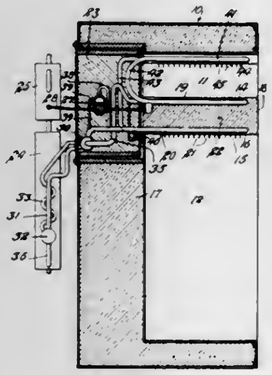
1. Method of filling a closed container to a predetermined level with a liquefied gas from a bulk supply thereof in equilibrium with its gaseous phase, which method includes establishing a single confined stream of said gas flowing from the liquid of said bulk supply above said container and comprising both a liquefied gas and a gaseous phase, connecting the interior of said closed container at said predetermined level with the liquid of said stream and separately with the geasous phase of said stream, connecting said stream beyond said container with the gaseous phase above the liquid of said bulk supply, and maintaining a flow of liquefied gas in said stream for a period at least sufficient to fill said container with liquid to said predetermined level.

**2,645,908**

## ABSORPTION REFRIGERATION SYSTEM OF THE INERT GAS TYPE

**Sigurd Mattias Backstrom, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden**

**Application November 3, 1949, Serial No. 125,254**
**In Sweden December 2, 1948**
**4 Claims. (Cl. 62—99)**



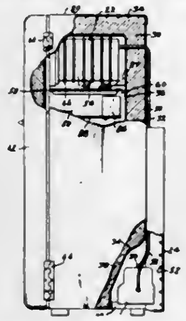
1. In a refrigerator of a household type, a cabinet comprising thermally insulated walls defining an insulated interior having a plurality of compartments, the insulated walls including a horizontal wall which extends across the top of the cabinet, said compartments including a freezing compartment which is of less height than the overall height of the insulated interior and whose uppermost region is essentially at the underside of the top insulated wall, an absorption refrigeration system of the inert gas type comprising a vapor expulsion unit for expelling refrigerant vapor from solution, refrigerant liquefying means in which liquefaction of expelled vapor is effected, and a gas circuit including an absorber having an inlet for inert gas enriched in refrigerant vapor and an outlet for inert gas weak in refrigerant vapor and a plurality of cooling elements each having an inlet and outlet for inert gas, said cooling elements including a first cooling element arranged to abstract heat at the bottom of the freezing compartment and a second cooling element arranged to abstract heat from the upper region of the freezing compartment, conduit means connecting the outlet of said absorber and the inlet of said first cooling element, means connecting the outlet of said first cooling element and the inlet of said second cooling element, said last-mentioned connecting means constituting the only connection for introducing inert gas to said second cooling element, conduit means connecting the outlet of said second cooling element and the inlet of said absorber, conduit means for conducting liquid refrigerant from said liquefying means to said first cooling element for gravity flow in the latter, said last-mentioned conduit means providing a connection in which said first cooling element is the initial cooling element to which is conducted substantially all liquid refrigerant formed in said liquefying means in the normal operation of the refrigeration system, and means for flowing liquid refrigerant by gravity from said first cooling element in a path of flow which by-passes said second cooling element.

**2,645,909**

## TWO-TEMPERATURE REFRIGERATOR

**Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland**

**Application October 19, 1951, Serial No. 252,145**
**4 Claims. (Cl. 62—103)**



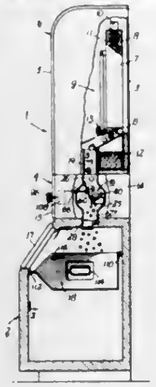
1. In a refrigerator, a cabinet having vertical walls, a horizontal drip pan within said cabinet cooperating with said walls to form an upper freezing compartment and a lower food storage compartment, said drip pan having opposite edges respectively spaced from adjacent opposite walls of said cabinet to allow for circulation of air between said freezing and food storage compartments, a damper hinged to said drip pan and movable to a raised position extending from one of said edges toward the adjacent cabinet wall to decrease air circulation, and a drip trough extending along said adjacent cabinet wall overlying said damper and discharging into said drip pan.

**2,645,910**

## ICE-MAKING APPARATUS AND METHOD

**Meldon Gerald Leeson, York, Pa., assignor to Flakice Corporation of Delaware, Brooklyn, N. Y., a corporation of Delaware**

**Application December 9, 1949, Serial No. 132,039**
**26 Claims. (Cl. 62—107)**



1. In ice-making apparatus, the combination of: a casing structure comprising, a base portion forming an ice storage compartment, and a top construction providing an enclosure; an ice-making unit positioned within said enclosure and including, a bank of vertical freezing tubes mounted in parallel relationship, means to refrigerate said freezing tubes and means to circulate water through said freezing tubes whereby ice is formed in said freezing tubes and is then harvested, said unit being adapted to produce ice in the form of cubes where the freezing operation is carried on transversely of the walls of the freezing tubes; an ice crusher positioned to receive the ice cubes from said ice-making unit and to crush the ice cubes into crushed ice having a substantially small proportion of small particles, said ice crusher being adapted to pass the crushed ice to said storage compartment; and means to pass the ice cubes directly from the ice-making unit to the storage compartment.

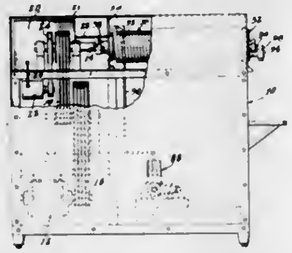


**2,645,911**

## FROZEN MIX MAKING DEVICE

**Philip Martin, North Hollywood, Calif., assignor to Foster's Freeze National Corporation, Los Angeles, Calif., a corporation of California**

**Application April 29, 1950, Serial No. 158,965**
**10 Claims. (Cl. 62—114)**



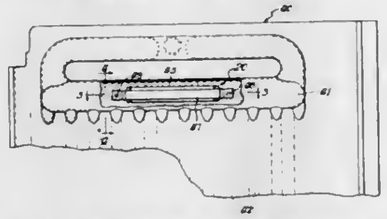
1. In a device for freezing mix of the class having a freezing drum, a rotatable shaft mounted in said freezing drum, and a helical screw on said rotatable shaft provided with indentations in opposed sections of said screw, the combination with said helical screw of a scraping blade of a substantially smaller thickness than said indentation and adapted to fit within said indentations thereby permitting transverse movement of said blade in said indentation, a plurality of projections on said scraping blade which retain said blade in said indentation.

**2,645,912**

## LOW SIDE DRIER

**Earl F. Hubacker, Muskegon, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**

**Application November 9, 1949, Serial No. 126,293**
**3 Claims. (Cl. 62—117.85)**



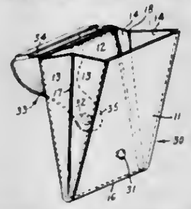
1. In a refrigerating apparatus comprising a compressor, condenser, refrigerant expansion device, and a header for an evaporator connected in a closed cyclic path and in the order named, said evaporator having a series of channels opening from said evaporator header and said refrigerating apparatus including a suction line connecting the end of said series of channels removed from the header to said compressor to complete the system, and a charge of refrigerant in the apparatus, those improvements comprising a non-porous drier body formed to define a cylindrical shape and arranged to encase and retain a hydrophilic adsorbing agent, said drier body having filters mounted within the casing and transversely thereof adjacent each end, said drier body being arranged to be disposed in the header in the low pressure side of the refrigerating apparatus adjacent the opening where the refrigerant is received into the header of the evaporator and submerged in the refrigerant where the operating temperatures of the system are at their lowest as distinguished from connecting the drier body in the circuit formed by the refrigerating apparatus where the refrigerant is forced to flow through the drier to complete its circuit, and the adsorption of objectionable moisture being responsive to subjection of the refrigerant to the hydrophilic adsorbent at substantially the lowest operating temperature in the system.

**2,645,913**

## COLLAPSIBLE DRINKING CUP

**Frank R. Curtiss, New Haven, Conn.**

**Application October 15, 1947, Serial No. 779,993**
**4 Claims. (Cl. 65—58)**



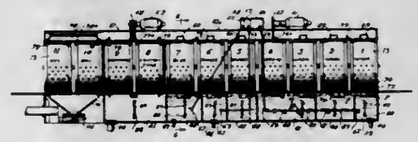
1. A collapsible drinking cup comprising a body including front and rear walls connected at their lower ends and end walls connecting and closing the space between the edges of said front and rear walls, said end walls when said cup is open comprising gusset-like members, said end walls foldable upon themselves whereby the front and rear walls may be collapsed toward one another, a closure flap carried by said rear wall and of a length to extend a substantial distance along said front wall when said cup is collapsed, a lug on said front wall in substantially spaced relation to the upper end thereof and over which said flap may be hooked when the cup is collapsed and said flap is substantially parallel with said wall, and a second lug on the rear wall of the cup but spaced above the first lug and over which said flap may be hooked when in a bower condition whereby to form a handle for said cup.

**2,645,914**

## CONTINUOUS PROGRESSIVE CYLINDER WASHER

**Donald W. Sessions, Lansing, Mich.**

**Application June 26, 1950, Serial No. 170,284**
**20 Claims. (Cl. 68—10)**

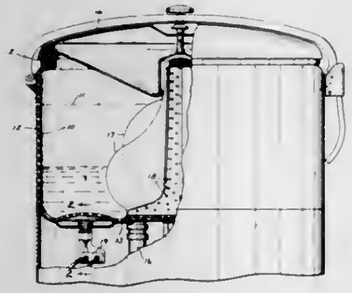


1. A progressive cylinder type washing machine comprising a frame, a plurality of rotors mounted

for independent rotation upon said frame, said rotors being axially aligned and each having perforations therein, a series of clothes containing cylinders carried end to end through said rotors, cooperative means on said rotors and said cylinders respectively to transmit rotary motion therebetween, means for driving said rotors independently and at selected speeds to carry the cylinders in each of the rotors at the speed of the associated rotor, and means for supplying washing solutions into certain of said cylinders through the perforated rotor housing such cylinders.

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**2,645,915**
**LIQUID LEVEL CONTROL**
**Henry J. Rand, Bratenahl, Ohio, assignor to H. J. Rand Washing Machine Corp., Bratenahl, Ohio, a corporation of Delaware**
**Application January 31, 1948, Serial No. 5,620**
**1 Claim. (Cl. 68—21)**

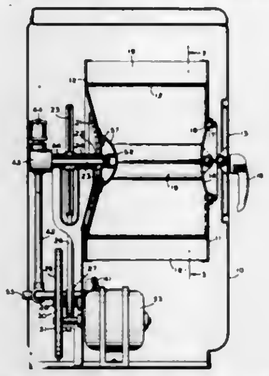


In combination, a washing machine comprising a flexible member to receive laundry and liquid and having a vertical side wall, means for admitting and discharging fluids to said container, an agitator within the container, means to actuate said agitator including a control switch member having an operator so arranged as to require appreciable movement between "on" and "off" positions, a plate engaging said operator, said plate having a pivotal mounting for movement in a substantially vertical plane, said plate lying outside of and positioned for engagement with said side wall, said operator being in operative engagement with said plate, whereby pressure of liquid in said container against the side wall will move said operator to its "on" position to actuate the agitator.

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**2,645,916**
**HORIZONTAL AXIS WASHER AND SQUEEZER EXTRACTOR**
**Maurice W. Green, South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware**
**Application August 20, 1949, Serial No. 111,442**
**13 Claims. (Cl. 68—21)**

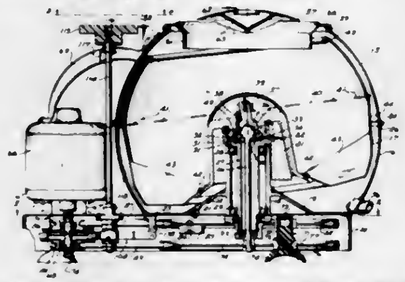
1. In a combined washer and extractor of the character described, a suction collapsible liquid and air tight container mounted for rotation about and with its longitudinal axis substantially inclined from the vertical thereby to operate as a tumble action washer, said container having a sealable opening in one end thereof for the insertion and removal of clothes, and mechanism for removing liquid and air from said container during the rotation thereof creating a substantial partial vacuum within said container to collapse said container on clothes contained there-



in to extract liquid therefrom by pressure existing outside said container walls.

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**2,645,917**
**COMBINED WASHING AND EXTRACTING MACHINE**
**James B. Kirby, West Richfield, Ohio, assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio, a corporation of Ohio, as trustee**
**Application July 12, 1947, Serial No. 760,555**
**4 Claims. (Cl. 68—23)**



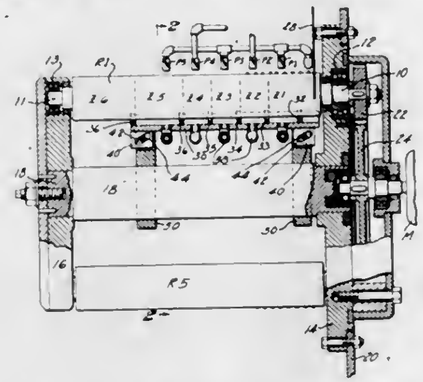
1. A washing and extracting machine comprising a base provided with a vertically disposed supporting column projecting upwardly with respect to the base, a first shaft mounted for rotation about a vertical axis within said column, a container mounted on the upper end of the first shaft for rotation relative thereto about an axis inclined with respect to the vertical axis of said first shaft, a second shaft concentrically mounted for rotation within said first shaft, flexible means coupling the upper end of said second shaft to the container for rotation therewith during extraction, drive means carried by the base operatively connected to the lower end of the first shaft for rotating said first shaft relative to the second shaft to effect washing movement of the container, drive means carried by the base operatively connected to the lower end of said second shaft for rotating said second shaft relative to the first shaft to effect centrifugal extraction.

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**2,645,918**
**APPARATUS FOR TREATING THREAD**
**Harry Asdour Kuljian, Merion, Pa.**
**Application October 13, 1950, Serial No. 189,916**
**4 Claims. (Cl. 68—205)**

1. For use in connection with a thread storing and advancing device of a type which includes at least one roll adapted to receive the thread, and means for delivering various liquids to said thread as it moves through various zones on said roll, an elongated trough, means mounting said trough

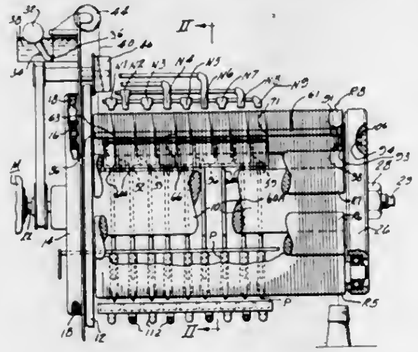




below said roll, spaced, transversely disposed wipers dividing said trough into separate compartments and abutting the underside of said roll, and separate drains leading from said compartments.

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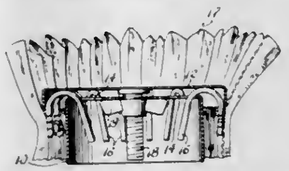
**2,645,919**
**THREAD PROCESSING REEL HAVING MEANS FOR ENGAGING THE CONVOLUTIONS OF A THREAD WOUND THEREON**
**Harry A. Kuljian, Merion, Pa.**
**Application January 17, 1951, Serial No. 206,402**
**5 Claims. (Cl. 68—205)**



1. For use with a thread storing and advancing reel of the type which is adapted to receive a thread to be treated, and which reel includes a first end plate and a second end plate, means for supporting said end plates in axial alignment with each other, a plurality of rolls arranged in a circle about a central axis and having their respective ends journalled in said end plates, and means for rotating said rolls about their axes, the axes of said rolls being skewed relative to said central axis whereby a thread wound about the receiving end of the reel will move, upon rotation of said rolls, in the form of a helix having a number of spaced convolutions, from the receiving end toward the discharge end of the reel, a rod adapted to have its opposite ends journalled in said end plates, a first group, consisting of a relatively small number of pins carried by and adapted to project radially from a first surface portion of said rod into the spaces between said convolutions, said first group of pins beginning near a first end of the rod and extending axially of the rod to a first predetermined point along said rod remote from said first end of the rod, a second group, consisting of a larger number of spaced, axially aligned pins carried by, and adapted to project radially from a second surface portion of said rod into the spaces between said convolutions, said second group of pins beginning near the first end of the rod and extending axially of said rod to a second predetermined point along the rod which is more remote from the first end of the rod than said first predetermined point, a third group, consisting of a still larger number of spaced, axially aligned pins carried by, and adapted to project radially from, a third surface portion of said rod into the spaces between said convolutions, said third group of pins beginning near the first end of the rod and extending axially of said rod to a third predetermined point along the rod which is more remote from the first end of the rod than said second predetermined point, said rod having a fourth surface portion which is free of pins and the entire surface of the rod itself being spaced radially inwardly of the path of movement of said convolutions, said rod being rotatable about its axis to a first position in which only the first group of pins will project into the spaces between said convolutions, into a second position in which only the second group of pins will project into the spaces between said convolutions, to a third position in which only the third group of pins will project into the spaces between the said convolutions, and to a fourth position in which said fourth surface portion will face said convolutions, and means for retaining said rod in any of its four positions.

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**2,645,920**
**DRAPERY HOOK HOLDING DEVICE**
**Frank A. Venn, Salem, Va.**
**Application February 7, 1950, Serial No. 142,846**
**1 Claim. (Cl. 68—235)**

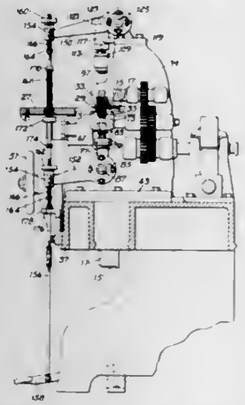


A device for securing and housing sewed-on hooks of a drapery while the same is being cleaned to protect the drapery against damage from the hooks, said device comprising an inner cup-shaped member, the bottom of said inner cup-shaped member being provided with a plurality of angularly spaced slots, each of said slots being spaced from the peripheral edge of the bottom of said inner member, each of said slots being adapted to receive one of the hooks with the shank of the hook on the outside of the inner cup-shaped member, an outer cup-shaped member of greater diameter than the inner member, the outer cup-shaped member facing in the same direction as the inner cup-shaped member and being adapted to cover the bottom of the inner member and engage and hold the central portion of each hook against the bottom of the inner member with the lip of the outer member overlying the side of the inner member and project-

ing between the drapery and the hooks, and means for securing the bottoms of the cup-shaped members together to engage and clamp the hooks.

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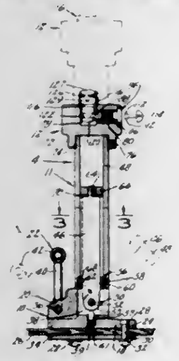
**2,645,921**
**SPLITTING MACHINE**
**Albert S. Dumas, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application August 19, 1952, Serial No. 305,150**
**6 Claims. (Cl. 69—10)**



1. In a splitting machine, a splitting knife, a gaging member for positioning a piece of work to be split relatively to said knife, a feeding member cooperating with said gaging member to advance the work toward said knife, operator controlled means operable through a predetermined stroke for moving said gaging and feeding members toward and away from said knife between operative and inoperative positions, yielding means acting upon said operator controlled means normally to hold said members in their inoperative positions, and means for adjustably limiting movement of said operator controlled means at each end of its stroke.

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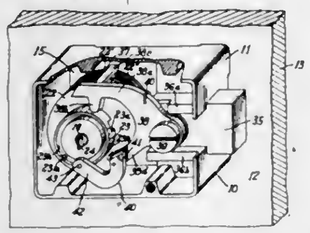
**2,645,922**
**RESTRAINING DEVICE**
**George L. Martin, Elmwood, Conn.**
**Application June 28, 1950, Serial No. 170,865**
**5 Claims. (Cl. 70—16)**



1. A restraining device comprising a pair of telescoping members, a base member at the free end of one member and a stud receiving head at the free end of the other member, a pair of handcuffs, a stud fixedly attached thereto for insertion into said head, said head being adapted to receive said stud and hold it in a locked position.

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**2,645,923**
**COMBINATION LOCK**
**Herbert C. Behrens, Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio**
**Application August 25, 1949, Serial No. 112,371**
**3 Claims. (Cl. 70—133)**



1. In combination lock construction including walls forming a case and including a base wall, a tube extending from the base wall, a spindle journalled in the tube, one or more tumbler wheels journalled on the tube, a dial knob on the spindle beyond the case, a cam on the spindle within the case and beyond the tumbler wheels, the tumbler wheels each being formed with an outwardly opening notch, the cam being formed with an operating notch, drive means operative between the cam and the adjacent tumbler wheel and drive means operative between each adjacent pair of tumbler wheels, a bolt mounted in the case for movement to and from an extended locking position, an operating lever, a pivotal connection between the operating lever and the bolt, the operating lever including an upper arm extending above the spindle and having a cam follower tongue depending towards the cam, a fence extending from the upper operating lever arm parallel with the axis of the spindle, the cam notch and the tumbler wheel notches being arranged for alignment with each other by setting of the combination and for reception of the fence in the aligned tumbler wheel notches and the cam follower tongue in the cam notch when the combination is set, for withdrawing and extending the bolt from and to the locking position; the combination including an auxiliary cam portion on the spindle cam separate from the cam notch and cam follower means on the lever arm separate from the cam follower tongue for engagement by said auxiliary cam portion, the auxiliary cam portion and cam follower means being operative for elevating the fence with clearance above the tumbler wheels when the bolt is in the fully extended locking position.

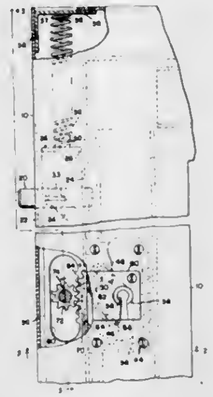
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**2,645,924**
**LOCK AND BOLT OPERATING MECHANISM FOR PSYCHIATRIC SCREENS**
**Clyde W. Kelly, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan**
**Application July 24, 1950, Serial No. 175,610**
**7 Claims. (Cl. 70—144)**

7. A detention screen frame comprising hollow border frame bars interconnected at their ends, an outer wall of an end frame bar having an opening therein in line with the hollow portion of a side frame bar, a locking bolt carried by said side frame bar, an elongated bolt actuator



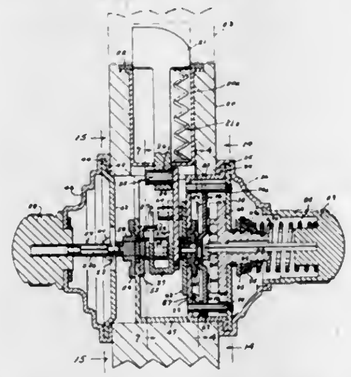
within said hollow portion such having been inserted through said opening, means operatively connecting said bolt and bolt actuator to effect movement of said bolt transversely of said side bar upon movement of said bolt actuator longi-



tudinally of said side bar, manually operable means carried by said side bar operatively connected to said bolt actuator for moving said bolt actuator longitudinally of said side bar, and a closure closing said opening removable to permit insertion of said bolt actuator.

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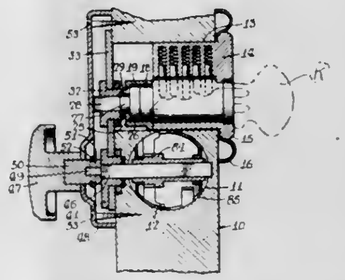
**2,645,925**
**COMBINATION CONTROLLED NIGHT LATCH**
**Edward M. Miller, Kent, Ohio, assignor to The C. L. Gougler Machine Company, Kent, Ohio, a corporation of Ohio**
**Application March 11, 1948, Serial No. 14,341**
**5 Claims. (Cl. 70—149)**



1. A door lock of the character described comprising a retractable latch bolt, a lock operator adapted to be manually operated, a latch bolt retractor, a spindle rotatably and axially movable responsive to said lock operator, said spindle being normally out of operative contact with said retractor but being operatively engageable with said retractor when said operator is moved axially, obstruction means normally preventing axial movement of said spindle, a combination mechanism, and release means responsive to suitable operation of said combination mechanism so as to remove said obstruction means whereby said operator may be moved axially to produce operative engagement of said spindle and said retractor and means responsive to retraction of said latch bolt for returning said obstruction means to said normal position upon axial movement of said spindle from said engaged position to said normal position.

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**2,645,926**
**FLUSH CYLINDER TUBULAR NIGHT LATCH**
**Andrew Erkkila, Fitchburg, Mass., assignor to Independent Lock Company, Fitchburg, Mass., a corporation of Massachusetts**
**Application April 24, 1947, Serial No. 743,564**
**7 Claims. (Cl. 70—151)**



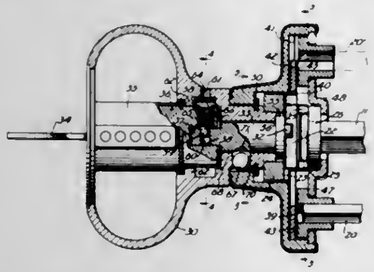
1. In a door lock having a tubular casing and including a bolt projectible therefrom and retractable therefrom to a hold back position, said casing on one side having a turn knob and a turn knob operated spindle member coupled to retractor means in the casing for retraction of the bolt and said spindle member being rotatable within limits in its coupling with the retracting means to retract the bolt to the hold back position, the combination therewith of retracting means operable from the other side of the casing comprising a turn bar member having its center line extending in a plane offset from the center line of said turn knob and located on the same side of the said casing as said turn knob, a key controlled plug for said turn bar member, coupling means between said turn bar member and plug having a lost motion connection, means for journalling said turn bar member and spindle member comprising aligned hubs keyed, respectively, to said members, linking means coupling said hubs with each other in all bolt projected, retracted and hold back positions and offset from the axes of said hubs, a portion of said linking means, upon rotary movement of said hubs, traversing said axes, said turn knob spindle extending in the path of said linking means to limit the rotary movement of the hubs with respect to each other.

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**2,645,927**
**LOCK MECHANISM**
**Frank J. McConnell and Irving J. Fletcher, New Britain, Conn., assignors to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut**
**Application March 19, 1949, Serial No. 82,381**
**13 Claims. (Cl. 70—216)**

2. In a latch device of the character indicated, latch-actuating means including a member to be rotated, two relatively movable dogging members for dogging said latch-actuating means when in engagement with each other, each of said dogging members being movable generally transversely of the axis of rotation of said latch-ac-

tuating member and at all times independently of each other, and means actuable from one



side of the latch for moving one of the members.

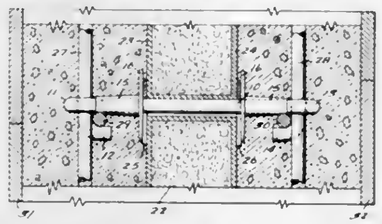
2,645,928
**BUILDING CONSTRUCTION**
**Charles J. Roos, Muskegon, Mich.**
**Application November 3, 1949, Serial No. 125,185**
**1 Claim. (Cl. 72—33)**



A building construction embodying superposed sections, each section comprising spaced outer and inner forms inclined inwardly towards the upper edge of such section providing sections having wide lower edges and narrow upper edges vertical cleats secured to the inner surfaces of the forms with their upper and lower ends spaced from the upper and lower ends respectively of the sections, the lower wide edge of one section being fitted over the narrow upper edge of the adjacent lower section, and securing nails extending through the forms of adjacent sections, securing the sections together.

2,645,929
**TIE BAR FOR INSULATED CONCRETE WALLS**
**Cable B. Jones, Black Hawk, S. Dak.**
**Application December 9, 1948, Serial No. 64,396**
**1 Claim. (Cl. 72—103)**

A tying device for reinforced concrete construction comprising a rod having a pair of hooks on each end thereof, and spaced annular spacing flanges intermediate of and spaced from the ends, said flanges being integral with said rod, the hooks of each pair being positioned in substantially perpendicular relationship to each other, and tapering yieldable sleeves positioned on the ends of the rod between the flanges and hooks, the thin edges of said sleeves being positioned



adjacent the hooks and the thick edges positioned against the flanges.

2,645,930
**SELF-FURRING CORNER LATH**
**Raymond F. Stockton, Sunland, Calif., assignor to Ray F. Stockton Wire Products Co. Inc., Burbank, Calif., a corporation of California**
**Application July 26, 1948, Serial No. 40,715**
**1 Claim. (Cl. 72—121)**



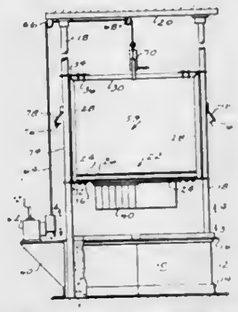
A self-furring corner lath strip comprising four laterally convoluted wires, each of which is of general sinuous shape, said wires being arranged in margin-to-margin relationship, the outermost wires having their outermost marginal portions bent at angles to the planes of their convolutes and having their inner marginal portions in overlapping relationship to the outer marginal portions of the inner wires and secured thereto, the inner wires having their inner marginal portions secured together and being arranged such that the planes of their convolutes are angularly related to each other, the inner marginal portions of the inner wires being disposed in overlapping and nested relationship and being bent such that the outermost marginal portions protrude outwardly beyond the planes of the convolutes of the inner wires so as to be engageable in the corners formed between two angularly related wall surfaces and to cooperate with the outwardly bent marginal portions of the outer wires in holding the body portions of the wires in spaced relation to the wall surfaces to enable the strip to be self-furring.

2,645,931
**VARIABLE DURATION SHOCK TESTING MACHINE**
**Kenneth W. Johnson, Dayton, Ohio**
**Application May 31, 1949, Serial No. 96,383**
**3 Claims. (Cl. 73—12)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. In a variable duration shock testing machine, a box for holding granular material, said box having the top side open, a bed of said granular material in said box, columns extending vertically from said box, a carriage including a horizontally disposed work table movable vertically along said columns, guide means on said carriage in vertically sliding engagement with said columns for maintaining free fall of said carriage along said columns, means to raise said carriage to a selected height connected thereto, means to suspend said carriage at said selected height associated therewith, trip means to release said

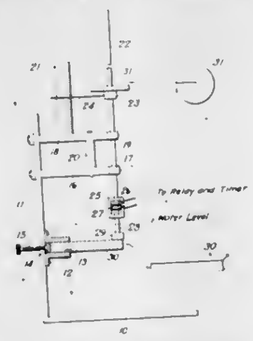


carriage for free fall, and a plurality of impact members mounted on the underside of said table



in side by side relation, the members being individually separable therefrom whereby shock duration may be varied.

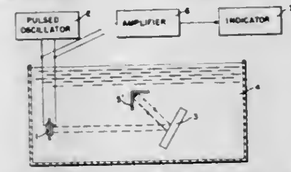
2,645,932
**TESTING OF PLASTIC FLOW**
**Frederick H. MacLaren, Munster, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application July 30, 1949, Serial No. 107,722**
**10 Claims. (Cl. 73—15.6)**



10. A test apparatus which comprises a constant temperature bath means, means within said bath for securing a test bar by only one end as a cantilever beams, a vertical bearing supported above the bar in substantial alignment with the unsupported end thereof, a spindle means slidable in said bearing, means for incrementally applying a weight load to the said spindle means, a foot member movably connected to the bottom of the spindle means adapted to bear on the unsupported end of the test bar, a timer, and means for stopping and starting said timer by relative motion between said spindle means and said foot member.

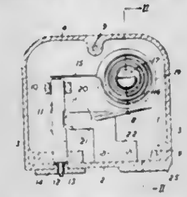
2,645,933
**SOLIDS CHARACTERISTICS TESTER**
**David L. Arenberg, Charlestown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application November 26, 1945, Serial No. 630,938**
**11 Claims. (Cl. 73—67)**

1. The method of investigating the elastic constants of the surface of a solid including the steps of submerging said solid in a liquid bath of known dynamic properties, projecting a beam of compressional waves at supersonic frequency on the surface of said solid at varying angles of incidence less than 90°, receiving energy reflected




from the surface region of said solid, and displaying said received energy so as to indicate the phase and amplitude thereof.

2,645,934
**APPARATUS FOR MEASURING THE HARDNESS OF MATERIALS**
**Arthur Rowlatt More, Caterham, England, assignor to H. W. Wallace & Company Limited, Croydon, England, a corporation of Great Britain**
**Application September 26, 1950, Serial No. 186,704**
**In Great Britain January 23, 1948**
**5 Claims. (Cl. 73—81)**

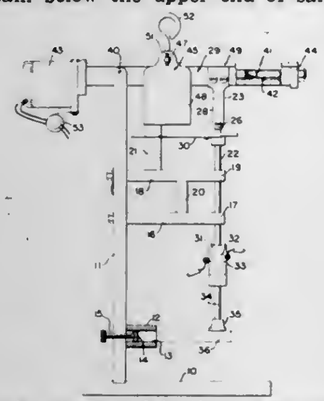


1. A pocket hardness tester comprising in combination a casing having a base, a movable penetration member projecting downwardly through said base, means guiding said penetration member vertically in relation to said casing, a spiral torsion spring on a horizontal axis with freely spaced coils and with one end adjustably anchored in relation to the casing while its other end projects from the coils and resists upward movement of the penetration member, an indicator, and means operatively connecting said indicator with the penetration member to cause said indicator to indicate movements of the penetration member.

2,645,935
**BEAM LOADER APPARATUS**
**Edward M. B. Pramuk, Whiting, and Frederick H. MacLaren, Munster, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application October 6, 1950, Serial No. 188,772**
**7 Claims. (Cl. 73—90)**

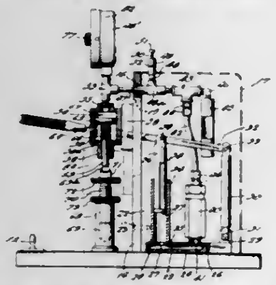
1. Apparatus for material testing which comprises means for applying an increasing load at a low uniform rate to a test sample, said means including a loading beam, a pivot means for supporting said beam, a channel in said beam aligned substantially parallel to the longitudinal axis thereof, the edges of said channel providing parallel guide rails, a driven threaded shaft in said channel, a superposed removable weight carrier movably supported by said beam on said guide rails and moved therealong by said shaft, pendulum weight means carried by said carrier with their centers of gravity below that of the beam, a vertical load-applying spindle under said beam, and an underslung linkage between said loading beam and the upper end of said load-applying spindle, said linkage comprising a link

bar member pivoted at its lower end to said loading beam below the upper end of said spindle



and at its upper end to the upper end of said spindle.

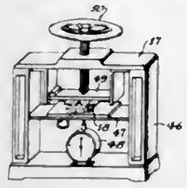
2,645,936
**TABLET HARDNESS TESTING MACHINE**
**Robert Albrecht, Cleveland, Ohio, assignor, by mesne assignments, to Strong Cobb & Company, Inc., Cleveland, Ohio, a corporation of Delaware**
Application July 8, 1949, Serial No. 103,630
2 Claims. (Cl. 73—94)



2. A testing machine comprising a support, a bored block mounted on said support, a pump means mounted on said block and communicating with the bore thereof, a check valve adjacent said pump means and also communicating with said block bore, a pressure tank carried by the support and communicating with said check valve, a relief valve connected to and communicating with said check valve and said tank, an air clamp cylinder connected to and communicating with said relief valve, a pressure gauge connected into and communicating with said air clamp cylinder and said relief valve, and an anvil mounted on said support opposite said air clamp cylinder which latter includes a plunger which is normally biased in a direction away from said anvil and which is forced by pressure created in the system by said pump means toward said anvil for testing purposes.

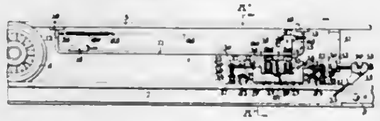
2,645,937
**METHOD OF TESTING SHEET MATERIALS**
**Marvin F. Skalmusky, Kimberly, and Carleton H. Root and Robert C. McKee, Appleton, Wis., assignors to The Institute of Paper Chemistry, Appleton, Wis., a corporation of Wisconsin**
Application October 28, 1949, Serial No. 124,014
1 Claim. (Cl. 73—94)

A method of evaluating a sheet of material for use as a corrugating medium, comprising the steps of forming a single elongated flute, having a cross section equivalent to the cross section of the flutes to be formed in the medium in a sample of the sheet, said flute having an apex which extends along its length, rigidly clamping the sample at the base of and along the edges of said



flute, maintaining said edges in fixed relation and a portion outside of each of said edges in coplanar relation, and then applying a measurable compressive force to the apex of said flute and toward the plane of said portions until said flute collapses, said force being generally perpendicular to the plane of said portions.

2,645,938
**RAIL FLAW-DETECTING DEVICE**
**Arthur E. F. Bilstein, Altoona, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania**
Application November 16, 1948, Serial No. 60,198
17 Claims. (Cl. 73—146)



2. The combination in a rail flaw-detecting device, of a vehicle adapted for travel on track rail; a suspension member mounted spacedly below and rigidly attached to the vehicle deck; a carriage slidably mounted dependent from the suspension member for relative movement and including resiliently influenced wheels normally in running contact with the track rail; supersonic means carried by said carriage to effect the actual testing regionally of the rail joint; electromagnetic devices on the carriage which, when energized, attract and stationarily hold said carriage to the rail; and movement controlling switch means operative to limit advance of the vehicle, relative to the carriage, during the actual testing interval.

2,645,939
**SHEET MEASURING APPARATUS**
**Arthur H. Bates, Jr., Dalton, Ga., and Ned Bobo, Charles F. Mullinax, and Wistar W. Macomson, Lyman, S. C., assignors to Pacific Mills, a corporation of Massachusetts**
Application August 11, 1950, Serial No. 178,862
2 Claims. (Cl. 73—159)

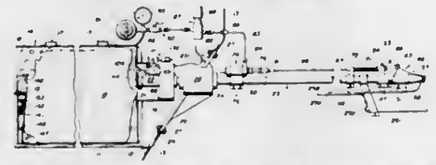


2. In a sheet tearing apparatus of the type described incorporating a table across which a web



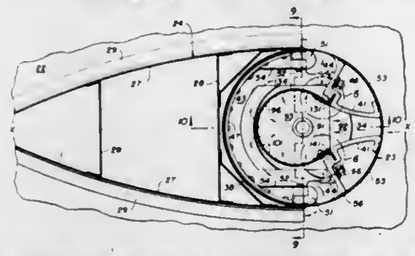
of sheeting material is drawn for successive measurement and tearing of sheets therefrom, a web defect detecting mechanism disposed in relation to said web ahead of said table, a marking and measuring wheel rotatably disposed ahead of said table adjacent said detecting mechanism, a rotatable pressure roll disposed in opposed relation to said marking and measuring wheel to form a nip therewith, whereby said wheel is rotated by the travel of said web of sheeting material as it is advanced to be drawn across said table, marking tips radially disposed about the periphery of said wheel with a regular spacing corresponding to the greatest common factor of standard sheet lengths to be torn from said web, whereby non-staining removable markings are embossed at regular intervals in said web corresponding to the spacing of said marking tips, and means actuated from the rotation of said marking and measuring wheel for indicating the length of said web advanced to said table from the last defect detected by said detecting mechanism.

2,645,940
**SNAP SAMPLER**
**Jerome Kohl, Berkeley, Elliott G. Reid, Palo Alto, and Lloyd R. Zumwalt, Lafayette, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission**
Application May 14, 1952, Serial No. 287,662
8 Claims. (Cl. 73—170)



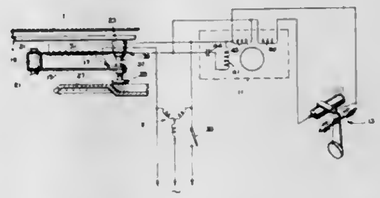
1. In an airborne device for sampling the gaseous and solid content of a radioactive cloud, the combination comprising an air-tight bag disposed within an aircraft, an elongated tube extending from said aircraft into undisturbed atmosphere in front thereof, said bag being attached to said tube at the inboard end thereof, a tapered nozzle mounted on the outboard end of said tube, a movable closure member mounted on said nozzle, and means mounted at the inboard end of said tube for controlling the rate of flow of gas into said bag.

2,645,941
**ATMOSPHERIC DUST COLLECTOR**
**Elliott G. Reid, Palo Alto, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission**
Application June 19, 1952, Serial No. 294,350
5 Claims. (Cl. 73—170)



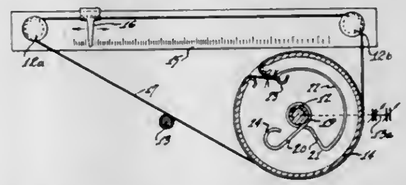
1. An airborne device for collecting samples of atmospheric dust, comprising a housing mounted rotatably on the fuselage of an aircraft, streamlining means mounted about said housing to minimize air turbulence, means mounted within an opening of said housing to provide a diffuser opening, means mounted within openings in said housing and disposed substantially 90 degrees on either side of said diffuser means to provide outlets, a sheet of filter pipe disposed within said housing between said diffuser and outlet means to collect dust particles, and means connected to said housing for selectively locking said housing in intake or closed position.

2,645,942
**GYROSCOPE**
**Charles E. Hurlburt, Teaneck, and Gerhard W. Boehm, West Englewood, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
Application November 21, 1951, Serial No. 257,503
11 Claims. (Cl. 74—5.47)



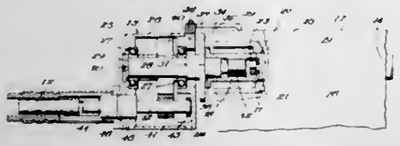
1. In a gyroscope instrument of the kind described, a gyroscope having a spinning rotor mounted for angular movement about mutually perpendicular axes, brake means comprising a pair of bimetal elements secured together and closely associated with one another, said bimetal elements in one position restraining angular movement of said rotor about one of said axes irrespective of the position of said rotor about said one axes and in another position releasing said rotor for angular movement about said one axis, and electrical means associated with one of said bimetal elements for controlling its position.

2,645,943
**ADJUSTABLE DRIVE CORD TENSION DEVICE**
**Hans Mendelson, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
Application January 19, 1951, Serial No. 206,753
12 Claims. (Cl. 74—10.7)



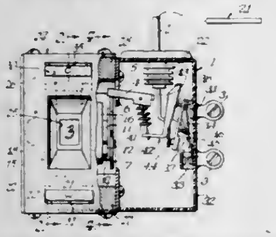
1. In a position control and indicator system for radio receivers and the like, the combination of a shaft, a pulley element fixedly mounted on said shaft, a pulley drive cord wound around said pulley, and a manually releasable resilient cord tensioning device frictionally gripping said shaft to provide instant rotational adjustability of said device, the said device being provided with pulley drive cord engaging means for preventing cord slack and maintaining a predetermined and adjustable tension thereon.

2,645,944
**POWER TAKE-OFF SYSTEM AND APPARATUS**
**Andrew B. Crichton, Jr., Johnstown, Pa., and Carl G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa., a corporation of Delaware**
**Application April 19, 1948, Serial No. 21,893**
**7 Claims. (Cl. 74—15.6)**



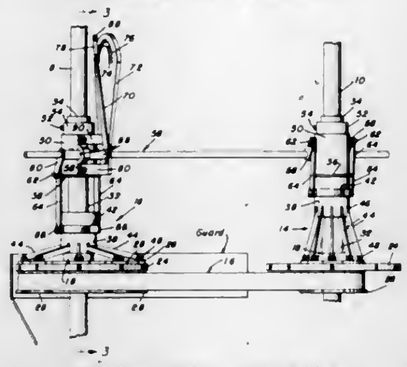
1. In combination, a tool operating unit having a shaft, a coupling sleeve having an open end to receive the shaft, said sleeve having interior screw-threads, said shaft having screw-threads engageable with the first-mentioned screw-threads, a portion on said shaft inwardly of its screw-threads intimately fitting the bore wall in said sleeve, said shaft having a wrench-engaging flange to contact the adjacent end wall of said sleeve during rotation in one direction, and torque arm means carried by and extending beyond the unit for engagement with a stationary element to prevent rotation of the unit with said sleeve in one direction.

2,645,945
**CONTROL DEVICE ADJUSTMENT MEANS**
**Bartell J. Homkes, Chicago, Ill., assignor to General Electric Company, a corporation of New York**
**Application March 29, 1952, Serial No. 279,373**
**4 Claims. (Cl. 74—161)**



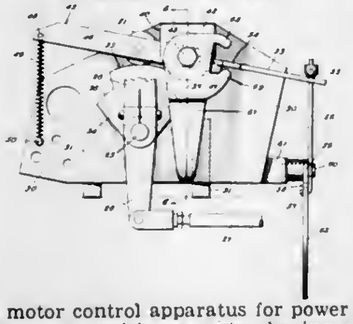
1. In a thermostat or the like having means for setting the same for response to a desired temperature condition, said setting means including a shaft rotatable in one or another direction according to whether the control point is to be raised or lowered with respect to a present setting; the improvement in means for rotating said shaft in a desired direction, comprising a ratchet wheel non-rotatably mounted on said shaft, a first series of ratchet teeth formed over a predetermined arc of the periphery of said wheel, a second series of ratchet teeth formed over a second predetermined arc of said periphery, said series of teeth being arranged in opposing relationship, said ratchet wheel having a reduced diameter portion concentric with said periphery and spaced axially from said series of teeth, a housing for said ratchet wheel, a first pawl slidably supported within said housing for operative association with said first series of teeth to produce step-by-step rotation of said wheel in one direction upon reciprocation of said pawl, a second pawl slidably supported within said housing for similar operative association with said second series of teeth for rotation of said wheel in the opposite direction, each said pawl having a finger piece projecting from said housing for manual operation of said pawls in wheel-rotating direction, spring means biasing said pawls in a return direction, means on said pawls engageable with said ratchet wheel reduced diameter portion, and spring means biasing said pawls resiliently into engagement with said wheel portion.

2,645,946
**VARIABLE-SPEED PULLEY ASSEMBLY**
**Edwin Henry Schleif, Inwood, N. Y.**
**Application October 18, 1951, Serial No. 251,871**
**2 Claims. (Cl. 74—230.2)**



1. In a variable speed construction, a rotary drive shaft, a pulley having a hub keyed on said shaft, said hub having radially expansible and contractible rim means, said hub also having an axially aligned sleeve surrounding said shaft, a stationary bearing in which said sleeve is freely rotatable, a rock shaft journaled for angular oscillation on and at right angles to the axis of said bearing, a manually regulable adjusting lever fixed to said rock shaft, lateral rocker arms carried by said rock shaft, a rotary hub slidably mounted on said sleeve, a yoke, said rotary sliding hub being keyed for rotation in said yoke, operating links between said yoke and rocker arms, and push-pull arms pivotally connected with said rotary sliding hub and rim means respectively.

2,645,947
**MOTOR CONTROL MECHANISM FOR CONCRETE MIXER POWER PLANTS**
**John W. Lendved and Edwin A. C. Eickstaedt, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application September 5, 1951, Serial No. 245,218**
**4 Claims. (Cl. 74—472)**



1. A motor control apparatus for power plants of the type comprising a motor having a speed controlling device, a reversible power transmission mechanism driven by said motor, and manually operable means controlling said transmission, said motor control apparatus comprising a supporting member; a cam follower journaled on said member; motion transmitting linkage connectible to the speed controlling device of the motor and including an arm engaging and operable by said follower; a cam engaging the follower and operable by said transmission control means, said cam having sequentially functioning portions effective through the follower and linkage to cause the speed controlling device to reduce the motor from working to idling speed during reversal of the transmission mechanism and to restore the motor to working speed upon completion of such reversal; and a manually adjustable lever journaled on said supporting member and having spaced projections alternatively engageable by said arm, whereby to vary the range of motion thereof and change the idling and working speeds of the motor.

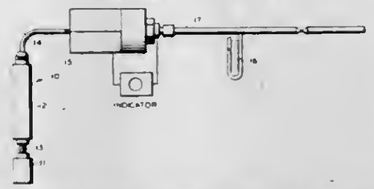


2,645,948
**AUXILIARY ACCELERATOR LEFT FOOT PEDAL FOR POWER-DRIVEN VEHICLES**
**Eugene T. Beckman, Fowler, Kans.**
**Application December 12, 1949, Serial No. 132,562**
**3 Claims. (Cl. 74—562.5)**



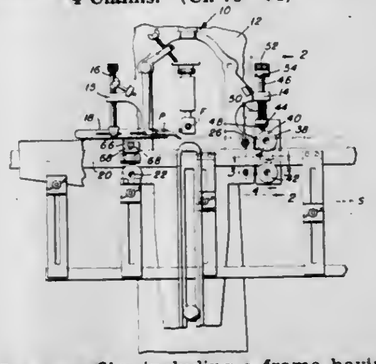
1. In an auxiliary left foot accelerator pedal device of the kind described for power driven vehicles; said device comprising the combination of a shaft having a lever integrally formed on one end thereof and positioned substantially ninety degrees to the shaft, and bearing means, said bearing means being rigidly attachable to the floor of a vehicle and revolvably holding the said shaft in close proximity to the floor of the vehicle, the other end of said shaft being threaded, a foot pedal support element and a foot pedal angularly adjustably carried thereon, one end of the foot pedal support element being receivable over the threads on the said shaft, said threaded end of the said shaft having a pair of spaced apart nuts threaded thereon and positioned one on and engaging either side of the foot pedal element in selected positions along the threaded portion of the shaft as a means of holding the pedal support element in adjusted position toward and away from the lever element on the shaft and also in radial adjustment about the longitudinal center axis of the said shaft, a pair of foot pedal clamp elements, said clamp elements being fittable against opposite side edges of an accelerator foot pedal of the vehicle and each clamp element having depending ear elements thereon that are spaced each from the other and being in parallelism each with the other, a clamp shaft, the major portion and associated end of said clamp shaft being threaded, the threaded portion of the clampshaft being threadedly received in and passing through a threaded opening in the ear of one of the clamp elements and slidably passing through a hole in the ear of the second of said clamp elements, said threaded portion of the clamp shaft having a nut threaded thereon to bear against the ear of the second said clamp element to draw the two clamp elements toward each other for the purpose of binding the two clamp elements on the accelerator pedal, said threaded portion of the clamp shaft also serving as a longitudinal adjustment of the clamp shaft, the other end of said clamp shaft having means thereon for receiving the swingable end of the said lever for the simultaneous operation of the accelerator pedal with movements of the left foot pedal on the threaded end of the first said shaft.

2,645,949
**PRESSURE BALANCE INDICATOR**
**Deslonde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application May 9, 1949, Serial No. 92,183**
**3 Claims. (Cl. 73—53)**



1. Apparatus for determining the vapor pressure of fluids comprising, in combination, a pressure balance indicator including a casing defining a diaphragm chamber, a diaphragm mounted in said chamber, supporting means for each side of said diaphragm including an apertured flat plate closely spaced to said diaphragm and seated in said chamber, one of said plates having a lug protruding therefrom which extends into a recess in said casing to prevent rotation of said plate, a washer interposed between the peripheral region of each plate and the outer portion of the diaphragm, an apertured plug screw-threaded in said casing, said apertured plug abutting one of said plates to force said plates, said washers, and said diaphragm into assembled position, a contact arm threaded and insulatedly mounted within said casing, said arm having one end thereof extending through the aperture in one of said plates and said plug into a closely spaced position with respect to said diaphragm whereby flexure of the diaphragm causes it to engage said contact arm, a container adapted for the vaporization of liquid to be tested, means connecting said container to one side of the diaphragm chamber, and an outlet conduit connected to the other side of the diaphragm chamber, for connection to a source of balance pressure.

2,645,950
**ADJUSTABLE SAW CARRIER HOLDER**
**John Schultz, New Britain, Conn.**
**Application April 10, 1952, Serial No. 281,517**
**4 Claims. (Cl. 76—74)**

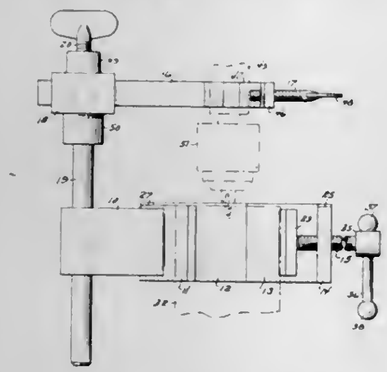


1. In a saw filer including a frame having an internally threaded ear normally receiving a

precision screw for a jointing guide, an adjustable saw carrier holder comprising a holding member secured to the frame, a plate slidably held by the holding member, carrier guides mounted on the plate, a vertical adjusting screw threaded in the ear, a sleeve on the plate receiving the lower end of said adjusting screw, an abutment on the screw under the sleeve, and a spring embracing the screw and biased between the sleeve and the ear and urging the sleeve and abutment against each other.

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**2,645,951**
**CENTER DRILLING FIXTURE**
**John W. Sponsler, Cambridge, Mass.**
**Application October 5, 1951, Serial No. 249,858**
**6 Claims. (Cl. 77—18)**

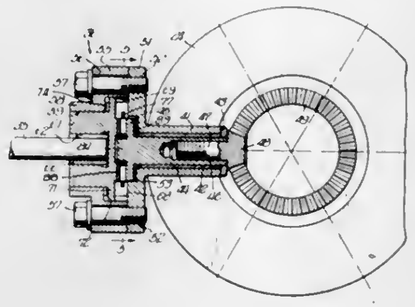


1. A center drilling fixture comprising a base with an opening therethrough and having an arm extended from one end with perpendicularly disposed surfaces positioned at the intersection of the base and arm, a clamp screw threaded in the extended end of the arm, the axis of said clamp screw positioned in a plane bisecting the angle between the perpendicularly disposed surfaces and extended longitudinally through the base and also positioned on the axis of the opening through the base, a rod extended through the opening through the base for sliding motion in relation to said base, an extension arm adjustably mounted on said rod at right angles thereto and having a clamp screw thereon for clamping the arm on a shank of a drill.

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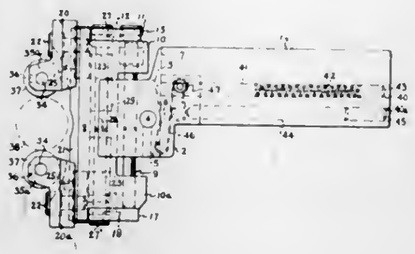
**2,645,952**
**DEEP DRILLING ATTACHMENT**
**William S. Bunnell, Chicago, Ill., assignor to Boyar-Schultz Corporation, Chicago, Ill., a corporation of Illinois**
**Application August 10, 1949, Serial No. 109,583**
**10 Claims. (Cl. 77—32.3)**

1. In a deep drilling attachment having means for securing it to automatic screw machines, hand screw machines, turret lathes and like machines which revolve the work being drilled, the combination of a drill holder adapted to hold a drill, means mounting such drill holder whereby it can reciprocate endwise but cannot rotate, spring means tending to thrust said drill holder in one direction, and cooperating cam and roller means rotating with respect to one another about an axis substantially coaxial with the axis of said drill holder operative to thrust said drill holder in the opposite direction, said spring means and said cam and roller means cooperating for imparting axial vibratory motion to said drill holder, and an actuating shaft extending substantially lengthwise of the direction of reciprocation of the drill holder, said shaft being connected at one end to actuate the cooperating cam and roller means and the other end extending to the machine to which the attachment is secured, said shaft having means at said other end for actuating it from the machine to which the attachment is secured for actuating the cooperating cam and roller means for vibrating the drill while the work is being revolved in contact with the drill, so as to break up the chips and thereby avoid or minimize pull-out operations.



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**2,645,953**
**KNURLING AND BURNISHING TOOL HOLDER**
**Michael J. Schlitters, Detroit, Mich.**
**Application June 2, 1948, Serial No. 30,553**
**12 Claims. (Cl. 80—5.1)**

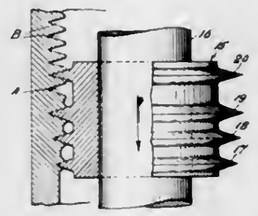


1. A tool holder comprising a mounting having an elongated guideway, a pair of holders slidable to and from each other on said guideway, two aligned adjusting screws journaled in the mounting in substantial parallelism with said guideway, and respectively having right hand and left hand threads, means connecting said screws for rotation in unison, a pair of feed nuts respectively engaging the respective screws, and having operative engagement with said holders for sliding the holders along said guideway, each nut and the corresponding holder being relatively adjustable to and from each other, and adjustable connections from the holders to the corresponding feed nuts for clamping the holders rigidly on the mounting, the mounting having an elongated shoulder seating the feed nuts under the clamping stress set up by said connections.



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**2,645,954**
**THREAD FORMING METHOD AND APPARATUS**
**Homer E. Pfingston, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware**
**Application March 30, 1949, Serial No. 84,408**
**4 Claims. (Cl. 80—6)**



1. A tool for forming a multiple helical thread on a surface of a work piece comprising a body member, a thread-forming roll having ribs thereon rotatably mounted on said body member for gradually forming a helical groove in said surface while simultaneously forming a helical ridge thereon, and ribbed roll means cooperating with said threading roll and arranged relative to said threading roll so as to divide the helical thread formed by said threading roll into a plurality of helical threads.

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**2,645,955**
**OUTBOARD BEARING FOR METAL ROLLING APPARATUS**
**John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio**
**Application February 13, 1951, Serial No. 210,735**
**6 Claims. (Cl. 80—55)**

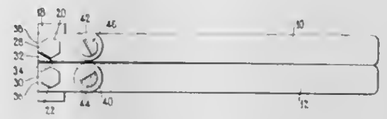


6. A mill having a frame and a pair of roll shafts projecting therefrom, a sleeve surrounding the outer end of each of said projecting shafts, a bearing block surrounding each of said sleeves, adjustable tie rods connecting said bearings to each other and a roll on each shaft fixed to the sleeve carried thereby.

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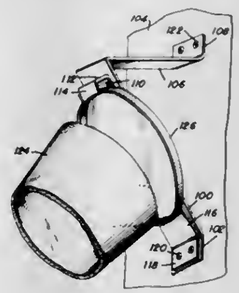
**2,645,956**
**WIRE PULLING TOOL**
**Robert F. Black, Jr., and Bernard T. Lapsley, Dorchester, Mass.**
**Application January 7, 1950, Serial No. 137,448**
**1 Claim. (Cl. 81—3)**

A wire pulling tool comprising two bars adapted to be in parallel edge-to-edge engagement, a link pivotally attached to both of said bars at one end thereof, latch means on said bars spaced from said link releasably holding said bars in side-by-side engagement, and gripping means mounted on said bars between said link and said latch means, said gripping means consisting of an abutment member on one of said bars and a circular disk eccentrically rotatable on the other bar and adjacent to said abutment member.



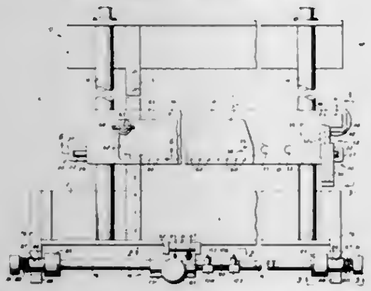
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**2,645,957**
**JAR TOP REMOVER WITH RESILIENT CAP ENGAGING MEMBER**
**Vernon H. Goldsmith, West Palm Beach, Fla.**
**Application September 28, 1950, Serial No. 187,218**
**6 Claims. (Cl. 81—3.3)**



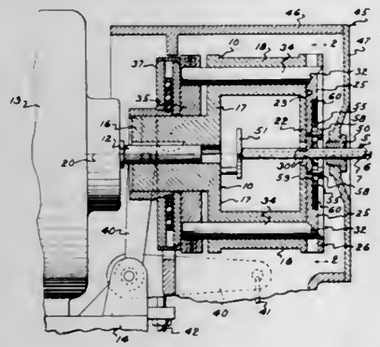
1. A container top remover comprising a longitudinally elongate rigid bar, one end of which is adapted to be fixedly joined to any suitable support means, the other end portion of said bar having a lateral depending rigid portion integrated therewith and terminating in a rigid right angled return bend underlying said other end portion of the bar in spaced relationship therewith and defining a container top engaging and lifting lip, a container top bridging and contacting plate underlying and opposed to said bar, means affording a rigid and permanent connection between one end of said plate and the corresponding end of said bar, the other end of said plate being free and interposed in the space between said lip and the adjacent overlying end portion of said bar, said plate being flexibly resilient, constituting a container top anti-distorting brace, and being adapted to reside in firm stabilizing contact with said container top from one side to the other diametrically opposite side of the latter, whereby when said lip is engaged with the usual rim of said top and the latter is dislodged and pried off, the brace acts to prevent the body portion of said top from bending or otherwise becoming distorted in shape.

2,645,958
**FIXTURE FOR SKINNING INSULATION FROM ELECTRICAL CONDUCTORS**
**Edward S. Geary, Nutley, and George W. Soderman, West Englewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application November 5, 1949, Serial No. 125,774**
**2 Claims. (Cl. 81—9.51)**



1. A skinning fixture comprising means to hold a plurality of insulated conductors at spaced substantially parallel positions, a carriage having an aperture therein, a shaft extending through the aperture to support the carriage for rocking movement about the axis of the shaft and moved axially thereof relative to the insulated conductors, companion elements heated to burn portions of the insulation from selected groups of the conductors, means on the carriage to support one of the elements, a pivoted support on the carriage for the other element, and an actuator connected to the pivoted support, and through the pivoted support to the carriage, and movable in a continuous path to first close the elements on a selected group of the conductors to cause them to burn insulation along the lines of contact therewith and then move them with the carriage about the axis of the shaft to cause the elements to burn given lengths of insulation from the selected group of conductors.

2,645,959
**WIRE STRIPPING AND TWISTING DEVICE**
**William F. Fuchs, Berwyn, and Vincent Lekan, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application October 6, 1950, Serial No. 188,848**
**4 Claims. (Cl. 81—9.51)**



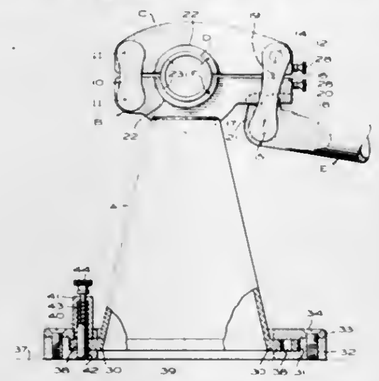
1. In a device of the character described comprising a supporting member rotatable about a predetermined axis and having radially directed guideways for slidably supporting a pair of cutting blades for radial movement toward and away from said axis for severing and stripping a portion of insulation from a conductor, the combination therewith of a pair of members mounted on said cutting blades for rotation therewith and for movement relative thereto radially of said axis, resilient means urging said members radially inwardly toward said axis, and means for limiting the movement of said members on said cutting blades to and from positions in advance of and in the rear of the cutting edges of said blades, said members having opposed surfaces engageable with the outer portions of a conductor positioned on said axis between said cutting blades and for engaging the bared wire as the conductor is withdrawn axially from between said cutting blades.

2,645,960
**BOLT HOLDING TOOL**
**Earl P. Pray, Gering, Nebr.**
**Application November 27, 1950, Serial No. 197,681**
**1 Claim. (Cl. 81—13)**



A bolt holding tool comprising a pair of handles pivoted to each other in crossed relation, jaws projecting at right angles to and at the front terminal portions of the handles, the jaws having opposed, coacting parallel edges of knife blade construction extending at right angles to said handles and having surfaces which curve downwardly to meet the parallel cutting edges in a sharpened point.

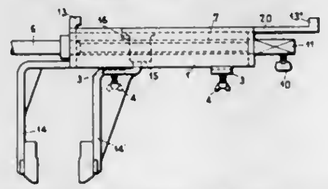
2,645,961
**WORK-CENTERING VISE HAVING TOGGLE-LOCKED PIVOTED JAW**
**James R. Brinkley, Elk Grove, Calif.**
**Application February 4, 1952, Serial No. 269,841**
**2 Claims. (Cl. 81—17)**



2. In a vise of the character described: upper and lower jaws movable into confronting relation with one another; these jaws respectively having gripping surfaces arranged to be positioned above and below a substantially horizontally-disposed object to be gripped; a supporting pedestal fixed to the lower jaw between front and rear portions of the latter; at least one link swingably interconnecting rear portions of the jaws, with the upper jaw being movable toward and away from the fixed jaw; at least one front link hingedly secured to a forward part of the movable jaw; a lug projecting from the front portion of the fixed jaw, and having an underneath side; a lever handle pivoted to the front link, and provided with a prying end engageable with the underneath side of the lug for forcing the jaws toward each other when the handle is swung downwardly about its pivot; the rear and front links being hinged to the jaws for shifting of the movable jaw lengthwise relative to the fixed jaw for centering the gripping surfaces of the jaws on the interposed object; the handle and front link being swingable into a position in which the longitudinal axis of this link will be disposed rearwardly of a center point of an area of contact between the prying end of the handle and the underneath side of the lug, thereby locking the jaws in clamping relation upon the gripped object, until the grip thereon is released by swinging the lever handle upwardly.



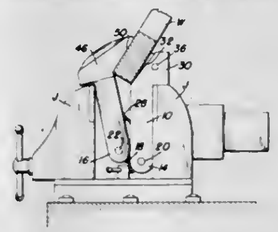
2,645,962
**WORK HOLDER**
**Hans Zähner, Landquart, Switzerland**
**Application February 9, 1951, Serial No. 210,208**
**In Switzerland February 10, 1950**
**2 Claims. (Cl. 81—33)**



1. A work holder including a longitudinally extending frame having parallel spaced side walls and end walls, a threaded spindle extending between and parallel to said side walls and means in said end walls for rotatably supporting said spindle, means attached to one end of said spindle for rotating the latter, means on one of said side walls for attaching the frame to a supporting member, a cheek secured on one of said end walls, a nut on said threaded spindle arranged to move axially of the latter when the spindle is rotated, an elongate bar having one end secured on said nut, said bar extending parallel to said threaded spindle and having its other end positioned beyond the other end wall of said frame, and said other end of said bar carrying a cheek confronting the cheek on said one end wall.

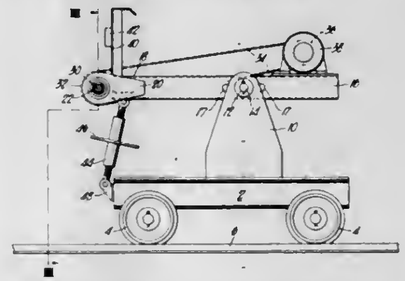
2,645,963
**WORK HOLDER SUPPORTED AND CLAMPED BETWEEN VISE JAWS**
**Carl M. Schmitt, Villa Park, Ill.**
**Application August 27, 1951, Serial No. 243,817**
**3 Claims. (Cl. 81—38)**

1. A work holder supported and clamped between vise jaws and comprising, a pair of shanks having pivotally connected lower ends, a first head integrally formed with the upper end of one shank and having a slot therein, a rotatable jaw element rotatably supported in the slot, the upper end of the other shank having a cylindrical axial recess therein, a second head having a hollow cylindrical shank-forming projection received in said recess for rotation and having a flat undersurface resting upon the upper



end of said other shank, and a fastener extending through the second head and the projection and secured to said other shank.

2,645,964
**APPARATUS FOR OPERATING RAILWAY DUMP CARS**
**Theodore J. Kochaver, Virginia, Minn., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application July 30, 1951, Serial No. 239,365**
**3 Claims. (Cl. 81—54)**



1. Apparatus for operating the dump actuating shaft of a bottom-dump railway hopper car comprising a base member, a pair of spaced vertical supports projecting upwardly from said base member intermediate its ends, an elongated platform pivotally mounted between and supported at a point intermediate its ends by the upper portions of said supports, means for pivoting said platform whereby the heights of the ends thereof are adjusted relative to said base, a pair of spaced bearings attached to and projecting from one end of said platform, a hollow drive shaft rotatably carried between said bearings with its ends projecting therethrough, an elongated coupling having one end slidably inserted in the bore of said shaft and its other extending outwardly of one of the projecting ends of said drive shaft for engaging the end of said dump shaft, said coupling being adapted to be moved for longitudinal adjustment within said bore, and drive means connected with said shaft for rotating the same to thereby turn said coupling.

2,645,965
**DUAL WHEEL WRENCH**
**Victor Resch, Sacramento, Calif.**
**Application October 13, 1951, Serial No. 251,164**
**1 Claim. (Cl. 81—56)**

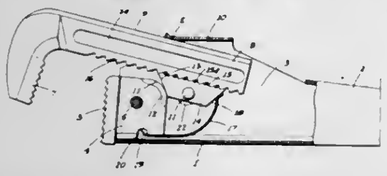
A dual socket wrench comprising; a tube; a nut socket on one extremity of said tube; an arm fixed to and projecting diametrically outward at the second extremity of said tube; a rotatable

shaft in said tube; a second smaller nut socket on the inner extremity of the shaft within the first nut socket, the outer extremity of said shaft projecting from the second extremity of said tube; a driven gear fixed on the projecting portion of said shaft adjacent the outer face of said arm; a smaller drive gear rotatably mounted on the outer face of the extremity of said arm in



mesh with the driven gear; a hollow sleeve projecting concentrically from said drive gear; and a similar sleeve projecting from said driven gear, both sleeves having openings for the passage of a turning bar whereby either gear may be rotated and a hollow pipe containing an opening attached to the tube within which an anchor arm may be inserted.

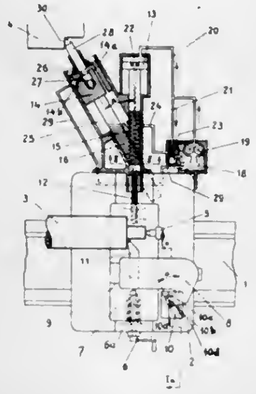
2,645,966
**PIPE WRENCH WITH RATCHET-CONTROLLED MOVABLE JAW**
George Dewey Mead, Crows Landing, Calif.
Application August 27, 1951, Serial No. 243,793
6 Claims. (Cl. 81—100)



1. A pipe wrench comprising a hollow body formed with a handle and provided with a fixed jaw at its forward end, a movable jaw cooperating with the fixed jaw, a shank projecting rearwardly from the movable jaw and slidable lengthwise through a yoke rigid with the body, a row of ratchet teeth along the edge of the shank opposite the yoke, a pawl block in the body having a row of teeth along one edge facing and normally engaging the shank teeth, an abutment in the body against which the forward end of the block rockably and slidably bears, and a spring in the body engaging and acting on the block and tending to yieldably force the same forwardly and also toward the shank so as to hold the block and shank teeth in engagement and maintaining the shank in contact with the back of the yoke; the abutment being convexly rounded, and the adjacent end of the block sloping rearwardly from the toothed face of the block.

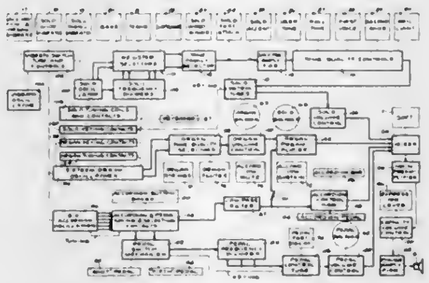
2,645,967
**PROFILING ATTACHMENT**
Ottomar von Zelewsky, Neuhausen am Rheinfall, Switzerland, assignor to Aktiengesellschaft der Eisen- und Stahlwerke, vormals Georg Fischer, Schaffhausen, Switzerland, a Swiss company
Application March 13, 1946, Serial No. 654,208
In Switzerland May 9, 1945
2 Claims. (Cl. 82—14)

1. Profiling attachment for copying from templates with steps vertical to the axis of rotation of a workpiece, comprising means for supporting a workpiece for rotation, a base slide adjustable parallel to the axis of rotation, a transverse slide supported on the base slide and adjustable vertically to the axis of rotation, a top slide mounted on the transverse slide and adapted to support a tool; a further slide and a feeler mounted thereon for following the shape



of a template, mechanism including a slide block member and cooperating guide member, one of said members being mounted on said base slide and the other said member being mounted on said top slide, and means responsive to the feeler to move said transverse slide, the above mechanism being so constructed and arranged as to effect parallel resulting movement of the tool and feeler at an angle to the axis of rotation.

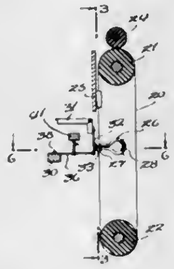
2,645,968
**ELECTRICAL MUSICAL INSTRUMENT**
John M. Hanert, Park Ridge, Ill., assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware
Application June 23, 1950, Serial No. 169,891
34 Claims. (Cl. 84—1.22)



1. In a musical instrument having means for producing musical tones throughout the accompaniment chord and bass registers, a control for selecting tones of a chord to be sounded and at the same time tentatively selecting tones in the bass register to be sounded which are suboctavely related to the root and the fifth of the selected chord, and additional means to determine whether the one of said tones in the bass register which is to be sounded shall be octavely related to the root or to the fifth of the selected chord.

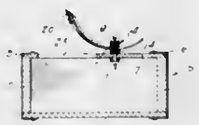


2,645,969
**ELECTRICAL MUSICAL INSTRUMENT**
Nathan I. Daniel, Asbury Park, N. J.
Application June 2, 1950, Serial No. 165,853
11 Claims. (Cl. 84—1.28)



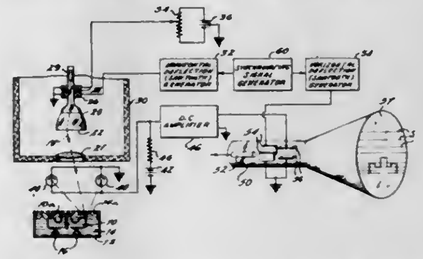
1. A musical instrument comprising a plurality of aligned flexible, endless tapes maintained in oval form and having audio frequency notes magnetically recorded thereon, a pair of spaced parallel rollers within said tapes and extending parallel to the alignment of the tapes and bearing against the respective oval ends thereof for maintaining the tapes in oval form, driving means for actuating one of said rollers so as to cause said tapes to travel at a desired speed, pick-up means disposed within the ovals formed by the tapes and pressure means outside of said ovals for selectively pressing against said tapes and bringing them into contact with said pick-up means.

2,645,970
**MUSICAL INSTRUMENT**
Philip Stablie, Brooklyn, N. Y.
Application September 4, 1951, Serial No. 244,925
2 Claims. (Cl. 84—403)



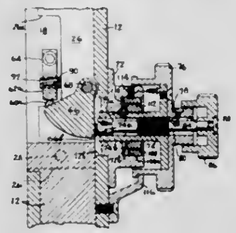
1. In a musical instrument, a sound box having a wall formed with sound opening means opening into the box, a first bar overlying and extending longitudinally of said wall and at one side of said sound opening means, said first bar being laterally spaced from opposite side edges of said wall, a second bar extending along and overlying said first bar, adjustable clamping elements extending through said first and second bars and securably connected with said wall, said clamping elements being positioned at longitudinally spaced intervals along said first and second bars, and elongated vibratory reeds positioned between and extending crosswise of said first and second bars at points in laterally spaced relation to clamping elements, said reeds having free ends bowed away from said wall and out of contact therewith, said reeds having minor intermediate portions engaged between said first and second bars, said clamping elements being adjusted to clamp the reeds between said first and second bars.

2,645,971
**SURFACE CONTOUR MEASUREMENT**
Philip J. Herbst, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 28, 1949, Serial No. 101,816
10 Claims. (Cl. 88—14)



7. Apparatus for measuring surface contours of an object having a uniform light reflecting surface, said apparatus comprising a bath of light absorbing liquid, means to immerse said object in said liquid bath with a reference plane through said object oriented parallel to the surface of said liquid, a light source, means directing light from said source through said liquid onto said reflecting surface, and means to measure the amount of light reflected through said liquid from adjacent points on a straight line along said reflecting surface to determine the distance between the surface of said liquid and each point on said reflecting surface, said last named means comprising a signal generator positioned to intercept light reflected from said reflecting surface through said liquid, a cathode ray tube having a fluorescent screen, beam deflecting means coupled to said signal generator to deflect the cathode ray beam in said tube in one coordinate and second beam deflection means to deflect said beam with uniform velocity in a direction at right angles to beam deflection effected by said first named beam deflecting means.

2,645,972
**ADJUSTMENT MECHANISM FOR MICROSCOPES**
Thomas G. Aitcheson, Kenmore, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 12, 1949, Serial No. 126,831
4 Claims. (Cl. 88—39)



1. In a microscope having a movable assembly for supporting a body tube, an arm, bearing means operatively connecting said movable assembly to said arm so as to permit rectilinear movement only of said assembly relative to said arm, spring means for urging said assembly in a given direction relative to said arm, a combined coarse and fine adjustment mechanism for urging said assembly in the opposite direction, said

mechanism comprising lever means pivotally mounted on said arm and operatively engaging said assembly for transmitting movement thereto, supporting means in normally fixed relation to said arm and having a threaded aperture formed therein, rotatable coarse adjustment screw means operatively engaging the threads of said aperture and having a bore which is at least partially threaded extending therethrough, the threads in said bore being relatively fine in relation to the threads formed in said aperture, rotatable fine adjustment screw means extending through said bore and operatively engaging the threads thereof, an extremity of said fine adjustment screw means bearing against said lever means in a direction so as to oppose the pressure exerted on said assembly by said spring means, a first actuating means for rotating said coarse adjustment screw means, a second actuating means for rotating said fine adjustment screw means, and adjustable means engaging a part fixed relative to said arm and said coarse adjustment screw means for applying to said coarse adjustment screw means a frictional resistance of variable amounts to the rotation thereof, whereby said combined adjustment mechanism may be adjusted so that rotational movement of said first actuating means will provide coarse adjustment of said assembly and rotational movement of said second actuating means will provide only fine adjustment of said assembly.

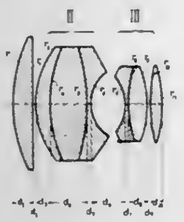
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**2,645,973**

## HIGH APERTURE FOUR COMPONENT OBJECTIVE OF THE GAUSS TYPE

**Hiroshi Ito, Setagaya-ku, Tokyo, Japan, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan, a corporation of Japan**

**Application June 29, 1951, Serial No. 234,354**
**In Japan January 31, 1951**
**7 Claims. (Cl. 88—57)**



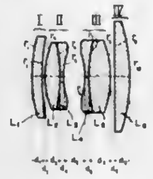
1. A coma corrected high aperture objective of maximum resolving power comprising a pair of collective lenses enclosing an object-side meniscus compound lens and an image-side meniscus compound lens, the four lenses being axially aligned and air separated, in which the object-side compound lens consists of three individual lenses having respective adjacent faces of the same curvature cemented to each other, the cemented surface thereof nearest the image side of the objective having a curvature concave to the object side of the objective, and the image-side meniscus lens consists of at least two individual lenses having respective adjacent faces of the same curvature and cemented to each other, the object side concave surface of the image-side meniscus compound lens has a radius of from 0.25 to 0.45 times in its absolute value the focal length of the objective, and the axial thickness of the object-side meniscus compound lens is between 0.25 and 0.295 times the total focal length of the objective.

**2,645,974**

## HIGH APERTURE WIDE ANGLE SIX ELEMENT GAUSS TYPE OBJECTIVE LENS SYSTEM

**Hiroshi Ito, Setagaya-ku, Tokyo, Japan, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan, a corporation of Japan**

**Application June 29, 1951, Serial No. 234,355**
**In Japan January 31, 1951**
**5 Claims. (Cl. 88—57)**



1. A coma corrected objective lens system having an including field of at least 75 degrees and an aperture of F:3.5 comprising four lens units consisting of two compound meniscus lenses having their exterior concave surfaces facing each other, and two simple collective lenses between which the two compound lenses are positioned in axial alignment and spaced from each other and each collective lens, the object-side meniscus compound lens having a front convex surface of which the radius of curvature is in the range from 0.55 to 0.40 times the total focal length of the objective and a rear concave surface of which the radius of curvature is in the range from 0.38 to 0.25 times the total focal length, and the axial thickness of the object-side compound lens is less than the axial thickness of the image-side compound meniscus lens.

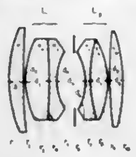
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**2,645,975**

## HIGH APERTURE WIDE ANGLE FOUR COMPONENT GAUSS TYPE OBJECTIVE

**Hiroshi Ito, Setagaya-ku, Tokyo, Japan, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan, a corporation of Japan**

**Application June 29, 1951, Serial No. 234,356**
**In Japan July 14, 1950**
**5 Claims. (Cl. 88—57)**



1. High aperture wide angle aberration corrected objective of the Gauss type comprising two axially aligned and spaced compound meniscus lenses positioned between two simple convergent lenses, each compound meniscus lens having a divergent element cemented to a convergent element, wherein the front surface of the object-side compound meniscus lens has a convex curvature of a radius whose magnitude is between 0.4 to 0.5 times the total focal length of the objective, the rear surface of the object-side compound meniscus lens has a concave curvature of a radius whose magnitude is between 0.25 to 0.35 times the total focal length, and the axial thickness of the object-side compound meniscus lens exceeds both the axial spacing between the two compound meniscus lenses and the axial thickness of the image-side compound meniscus lens.



**2,645,976**

## SUBTRACTIVE COLOR TELEVISION

**Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**

**Application August 5, 1949, Serial No. 108,822**
**5 Claims. (Cl. 88—61)**



1. A light control valve comprising an insulating liquid, plate-like particles in suspension therein and having a dielectric constant greater than that of the liquid, said particles being colored to be absorptive of the energy in a fractional portion of the spectrum of white light and to be comparatively transmissive of the energy in a remaining fractional portion of said spectrum, means to project substantially white light upon said liquid, and means to impress an electric field of varying intensity through said liquid.

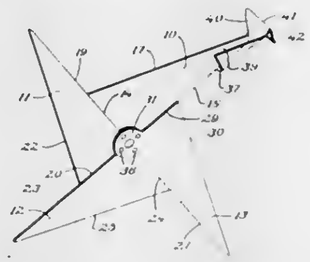
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**2,645,977**

## SAFETY SIGNAL REFLECTOR FOR VEHICLES

**Lawrence Mertin Wilford, St. Paul, Minn., assignor of one-half to Alfred E. Hulet, St. Paul, Minn.**

**Application September 30, 1949, Serial No. 118,974**
**3 Claims. (Cl. 88—81)**



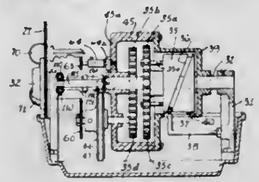
1. A danger signal including a plurality of similar elements of sheet material each including a circular disc and a vane portion extending outwardly from a portion of the edge of the disc and on substantially the plane of the disc, a coating of light reflective material on said vane portions of said elements, said elements being arranged in parallel planes with the discs thereof in axial alignment, a pivot extending through the discs axially thereof to pivotally connect the same, a series of angularly spaced indentations in one surface of each disc providing corresponding projections on the opposite surface thereof, the indentations being equally spaced, equal in number to the number of elements, and equidistant from the disc axes, said projections of one disc being engageable in the indentations of the next adjacent disc, and spring means encircling said pivot and urging said discs toward surface contact with each other, the indentations and projections nesting together when said vanes are in equally spaced angular relation, and when said vanes are in contiguous relation.

**2,645,978**

## KEY DUPLICATING MACHINE

**Lester Sejarto, Richmond Hill, and Samuel J. Stoll, Flushing, N. Y.**

**Application April 19, 1949, Serial No. 88,372**
**4 Claims. (Cl. 90—13.05)**



4. In a key duplicating machine, a pair of cam-actuated clamps for the pattern and blank, each clamp comprising a fixed jaw, a movable jaw, a bell crank situated for engagement with said movable jaw, and a cam which is movable into and out of engagement with said bell crank to actuate the bell crank and thereby to apply a pushing force against the movable jaw to move said jaw toward the fixed jaw and into clamping position relative thereto, tension means being provided to move the movable jaw away from the fixed jaw and out of clamping position relative thereto when the cam disengages the bell crank, said bell crank being articulated and provided with adjustable tension means for tensionally holding the articulated parts of said bell crank in predetermined relationship toward each other, such relationship being subject to change against the action of said last mentioned tension means when the movable clamping jaw engages a pattern or blank of greater than average thickness.

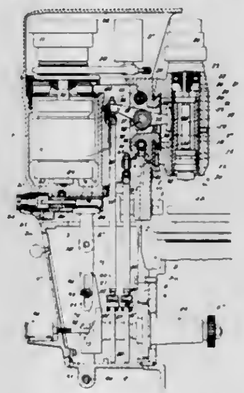
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**2,645,979**

## MILLING ATTACHMENT FOR UNIVERSAL MACHINE TOOLS

**Charles Haesler, Le Locle, Switzerland, assignor to Haesler-Glauque & Cie, Fabrique de Machines, Le Locle, Switzerland**

**Application August 27, 1949, Serial No. 112,746**
**In Switzerland September 15, 1948**
**4 Claims. (Cl. 90—15)**

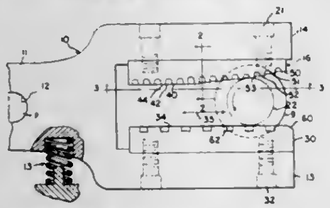


3. A tool holder for milling machines comprising a rotatable spindle, a base, supporting means for said spindle mounted on said base and provided with a plurality of guide means enabling displacement of said spindle relative to said base in predetermined directions, a cam shaft, a plurality of control mechanisms for translating rota-

tion of said cam shaft into movement of said spindle in a respective one of said directions, each of said control mechanisms comprising a cam on said cam shaft, cam follower means for engaging a respective cam, a lever operatively coupled with said cam follower means and provided with a toothed extremity, a rack engaged by said toothed extremity, and adjustable control means comprising pivot means for said lever including a pin provided with an eccentric portion, said lever being swingable about said eccentric portion, said adjustable control means being included in at least one of said mechanisms for modifying the operation thereof independently of each of the remaining ones of said mechanisms.

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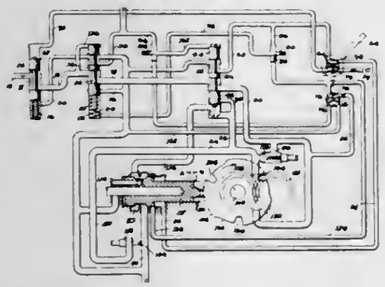
**2,645,980**
**BROACH FOR SHAVING ROUND PARTS**
**Leo W. Bedker, East Detroit, Mich., assignor of one-half to Emma G. Bedker, East Detroit, Mich.**
**Application December 29, 1948, Serial No. 67,995**
**7 Claims. (Cl. 90—33)**



1. A broaching attachment for use on an automatic screw machine effective to turn parts to circular cross-section comprising a holder having support means at one end for mounting said holder for rocking movement, said holder at its opposite end having spaced jaws, an elongated broaching tool carried at the inner side of one of said jaws having a series of progressively higher teeth inclined at an angle such as to insure simultaneous contact between at least two teeth and a rotating work piece, and a gauge block carried at the inner side of said other jaw, said gauge block having a gauging surface extending generally parallel to the length of said broaching tool.

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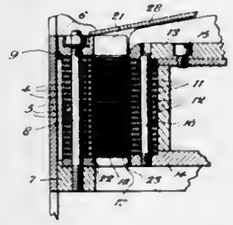
**2,645,981**
**HYDRAULIC INDEXING MECHANISM**
**Eric J. Hirvonen, Shrewsbury, Mass., assignor to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts**
**Application January 5, 1949, Serial No. 69,357**
**16 Claims. (Cl. 90—56)**



1. A hydraulic system for indexing a table comprising a hydraulic motor to drive the table, a cam moved by the motor, means forming a series of slots in the cam, a cam follower pin receivable in the slots seriation as the cam moves past the pin, a valve, hydraulic means to move the valve, a source of hydraulic power, said valve connecting the source to the pin moving the pin out of the slots to unlock the table, hydraulic means in sequence moving the pin reversely to bear on the cam, a line to apply fluid to the motor, said pin opening the line as it moves away from the cam, means to maintain the motor in operation, and a low spot on the cam just prior to the sequential slot allowing the pin to move farther reversely, a drain for the motor, the pin substantially closing the drain in the last named movement thereof whereby pressure is built up at the motor outlet side and the motor is slowed just prior to the pin dropping into the sequential slot.

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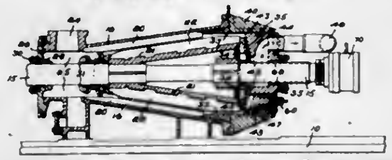
**2,645,982**
**APPARATUS FOR TREATING PAPER STOCK**
**Edwin Cowles, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J., a corporation of New Jersey**
**Application November 14, 1949, Serial No. 127,164**
**6 Claims. (Cl. 92—26)**



1. Apparatus for treating paper stock, comprising, a stack of spaced rotor rings, a stack of spaced stator rings, said stacks of rings being concentrically arranged, the outside perimeter of said rotor rings having a diameter less than that of the inside perimeter of said stator rings so as to provide space therebetween, each of said rotor rings having circumferentially spaced blades projecting outwardly from its outer perimeter across said space, and each of said stator rings having circumferentially spaced blades projecting inwardly from its inner perimeter across said space, said rotor blades overlapping and being interleaved with said stator blades, the spacing between said rotor and stator rings being such as to provide relatively small but substantially equal clearances between opposed rotor and stator blade faces throughout the stacks.

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**2,645,983**
**CONICAL PLUG REFINER**
**Cyrus E. Roberson, Hoosick Falls, N. Y., assignor to The Noble & Wood Machine Company, Hoosick Falls, N. Y., a corporation of New York**
**Application February 15, 1949, Serial No. 76,471**
**9 Claims. (Cl. 92—27)**



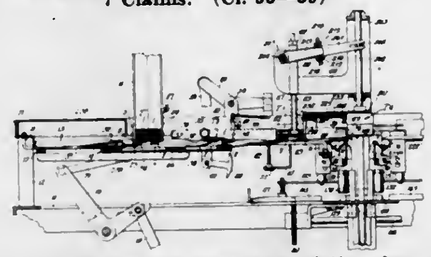
1. In an apparatus for refining fluent material including a stator shell and a rotor mounted for



rotation and axial translation within the shell; the combination of a non-rotatable shell head closing one end of the shell and forming with the end of the rotor a shallow chamber within the shell whereby fluent material within the shallow chamber will be urged radially by the end of the rotor, walls in the shell head forming an outlet passage from said shallow chamber adjacent to the rotor axis, disruption means communicating with said narrow chamber through said shell head including a member movable into or out of said shallow chamber for retarding the centrifugal flow of the said fluent material within the said shallow chamber.

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**2,645,984**
**BOXMAKING MACHINE**
**William F. Linstedt, Plymouth, Wis., assignor to Kraft Foods Company, Chicago, Ill., a corporation of Delaware**
**Application August 22, 1946, Serial No. 692,271**
**7 Claims. (Cl. 93—39)**

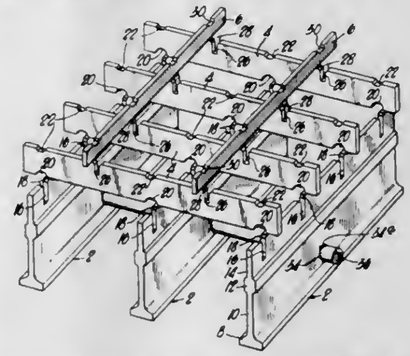


1. In box making apparatus of the class described, the combination of means for supporting a supply of collapsed trays in inverted position, reciprocable means embodying a plurality of tray engaging elements adapted to successively engage the trays to advance them step by step along a predetermined path of travel, one of said tray engaging elements being adapted to enter between relatively folded portions of the lowermost tray in said supply to thereby effect an initial opening of said folded parts and to feed the engaged tray edgewise for a predetermined distance, means for preventing retraction of the tray advanced by said first-mentioned element upon retraction of the latter, means for engaging and effecting initial opening of another folded portion of the tray advanced by said first-mentioned element while such advanced tray is held against retraction, means for acting on the tray in a direction transversely of the direction of action of said feeding and opening elements for effecting a preliminary opening of said tray, a second of said feeding elements being operative to feed the tray from its first advanced position to said preliminary opening means, and means for effecting final and complete opening of said tray preparatory to the insertion of other material thereinto, a third of said feeding elements being operative to engage and advance the tray from said preliminary opening means to said final opening means.

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**2,645,985**
**OPEN FLOOR GRATING**
**Gerald T. Beebe, Youngstown, Ohio, and Henry M. Priest, Pittsburgh, Pa., assignors to United States Steel Corporation, a corporation of New Jersey**
**Application April 26, 1950, Serial No. 158,224**
**7 Claims. (Cl. 94—30)**

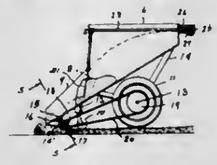
5. An open floor grating comprising a plurality of longitudinally extending primary members, each of said primary members having a bulbous portion intermediate its height and a rectangular rib portion extending vertically upward from said bulbous portion, the rib portion in each primary member having a plurality of spaced apart slots therein extending downwardly substantially to said bulbous portion, the slots in each of said primary members being aligned with the slots in the primary members adjacent thereto, a plurality of substantially rectangular transverse secondary members in the aligned slots in the primary members, each of said secondary members having an arcuate slot at the



bottom thereof at the points of intersection with the primary members, the lower end of said arcuate slots fitting snugly over said bulbous portion, a cut out portion in the top of said secondary members above the arcuate slots, the top surfaces of the primary and secondary members being in substantially the same plane, the slots in the rib portion cooperating with the cut out portions in the secondary members to form a receptacle at each intersection of the primary and secondary members, and a weld at each of the intersections of said primary and secondary members substantially covering all four corners of said intersections.

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**2,645,986**
**GRAVEL SPREADER**
**Martin R. Rasmussen, Galveston, Tex.**
**Application July 9, 1948, Serial No. 37,801**
**2 Claims. (Cl. 94—44)**

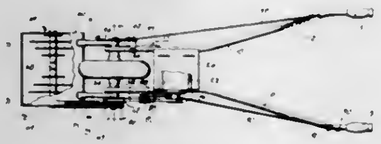


1. A spreader comprising, a container having a forwardly declining bottom forming a chute, the front wall of the container having its lower edge space above the bottom to form a discharge opening, said chute extending forwardly beyond the opening, a movable door closing said opening, said door being movable upwardly, adjustable means on the container under the control of the operator for moving the door upwardly to release the contents of the container onto the chute to be spread on a surface, carriage wheels secured to bracket means on the underside of said container and chute, said bracket means being formed to carry the container and chute in a forwardly inclined position to cause the

contents of the container to flow by gravity through said opening onto said chute when the door is raised by the operator, a cylindrical brush mounted on a horizontal axis beneath the chute adjacent the discharge end thereof, and a driving connection between said brush and said carriage wheels for effecting rotation of the brush.

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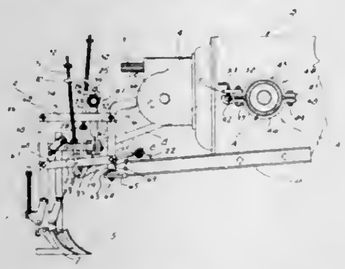
**2,645,987**
**CULTIVATOR**
**Lester M. Brooks, Seattle, Wash.**
**Application September 13, 1948, Serial No. 49,031**
**5 Claims. (Cl. 97—40)**



1. An implement of the character described comprising a main frame structure, including a pair of longitudinally extending and laterally spaced handle levers for the guidance and control of the implement in use, a supporting ground wheel mounted between the levers at their forward ends, a tool carrier frame disposed forwardly of the wheel and supported from the main frame for up-and-down swinging adjustment about the wheel axis, a tool mounted in the said tool carrier frame having a drive shaft, an engine mounted on the main frame, a driving connection between the engine and the said drive shaft of the said tool, and a releasable means for effecting a rigid connection between the main frame and tool carrier frame whereby the tool carrier frame may be sustained at a selected operating distance above the ground through the mediacy of the handles.

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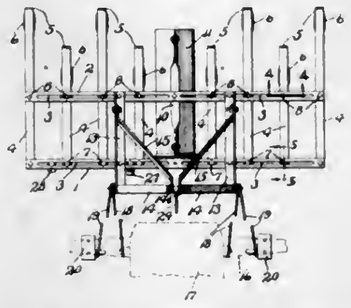
**2,645,988**
**REAR GANG FOR TRACTOR CULTIVATORS**
**Arthur V. Raught, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin**
**Application February 28, 1946, Serial No. 650,793**
**1 Claim. (Cl. 97—46.43)**



In a ground working implement for mounting on a tractor having a central rearwardly projecting encumbrance including a platform, the combination of outer and intermediate tools arranged in a series across the width of the rear of the tractor, the outer tools being swingable in the path of an arc from pivot points forwardly of the rearwardly projecting encumbrance, an arch member pivotally connecting said outer tools to maintain predetermined spacing thereof while providing free floating of said outer tools, power lift means on the tractor, a connection from the power lift means to said arch for lifting the same and through it said outer tools, an upstanding brace on said platform, upper and lower substantially parallel links extending rearwardly from said brace, an upright shank connecting the rear extremeties of said links and carrying at its lower end said intermediate tool, a lifting connection from said arch to said intermediate tool comprising a lifting element connected to one of said links at a point displaced from said shank toward said brace so as to lift said intermediate tool through a substantially greater distance than the movement of said arch, said element providing lost motion for free floating movement of said intermediate tool, said lost motion being of sufficient extent to cause delay in lifting said intermediate tool as related to said outer tools and lifting of said intermediate tool, upon actuation of said power lift, a total amount substantially equal to that of said outer tools.

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**2,645,989**
**CULTIVATOR ATTACHMENT FOR TRACTORS**
**Gerrit Prince, West Olive, Mich., assignor to Rodger F. Becker, Kalamazoo, Mich.**
**Application March 20, 1950, Serial No. 150,679**
**1 Claim. (Cl. 97—47.61)**



In a spring harrow construction for attachment to a lift-type tractor, the combination comprising: a pair of spaced-apart, horizontal, front and rear parallel bars, each of said bars being slotted from points adjacent the ends of each thereof to points closely adjacent the middle points of said bars, whereby each bar has two longitudinal slots in alignment with each other and separated a short distance from each other at the inner ends and closed at their outer ends; a plurality of spring members having teeth therein spaced from each other and located transversely of said bars, one at each of the outer ends thereof and others intermediate said outer members, and means extending through one of the said slots in each of said bars and engaging each of said spring members for fastening each thereof in selected positions along the length of said parallel bars and, when so fixed in position, for constituting in cooperation with said parallel bars a rigid frame member; a sub-frame comprising a pair of angle members disposed and spaced in parallel relation with each other and transversely of said parallel bars; means extending through said slots and engaging said angle members for affixing same in selected positions on said parallel bars, and means mounted directly on said angle members providing three points arranged in a vertical plane for attachment to the lifting mechanism of said tractor.



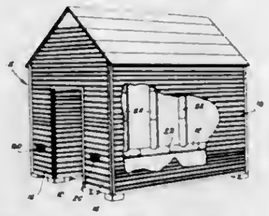
**2,645,990**
**WHEEL STABILIZER MEANS FOR HAND GUIDED GARDEN PLOWS**
**Martin E. Garlock, Kirksville, Mo.**
**Application May 11, 1950, Serial No. 161,316**
**1 Claim. (Cl. 97—59)**



The combination with a garden plow of the type including a pair of forwardly converging handles and a ground wheel journaled between the forward end portions thereof, of a wheel stabilizer comprising a transverse metallic bar adjacent the wheel and including twisted end portions overlying intermediate portions of the handles and having longitudinal slots therein, bolts engaged in the slots for adjustably securing the bar on the handles, said bar further having longitudinally spaced slots in its intermediate portion, shafts adjustably mounted in the last named slots and depending from the bar on opposite sides of the wheel, and rollers journaled on said shafts and engaged with the wheel for laterally supporting same.

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**2,645,991**
**GRAIN DRIER**
**Ota O. Hobson, Vinton, Iowa**
**Application February 12, 1949, Serial No. 76,097**
**7 Claims. (Cl. 98—55)**

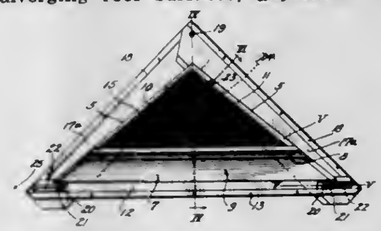


4. A drier for use in a crib having material to be dried, and comprising a perforated tube adapted to extend in the crib and having at least one end adapted to communicate with the space outside said crib, an inner imperforate tube slidable in said perforated tube and open at both ends, said inner tube having one end extending out of one end of said perforate tube, a partition wall extending transversely across said perforated tube and slidable therein, said partition wall being connected to the inner end of said imperforate tube in spaced relation to said inner end, funnel means at the outer end of said imperforate tube, and an impeller in said funnel means.

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**2,645,992**
**VENTILATOR FOR BUILDINGS HAVING PITCHED ROOFS**
**Allen L. Simbiest, Columbus, Ohio, assignor to Shawnee Industries, Inc., Columbus, Ohio, a corporation of Ohio**
**Application March 23, 1951, Serial No. 217,208**
**1 Claim. (Cl. 98—121)**

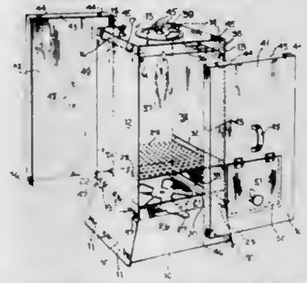
In ventilator apparatus: a rigid triangular frame formed with spaced stationary internally positioned louvers, said frame being receivable in an opening formed in an associated vertical building wall, the latter having downwardly diverging roof surfaces; a pair of vertically disposed masking strips arranged at the front of said frame in overlapping relation to its side edges and those of said wall opening; means pivotally uniting the upper ends of said strips to adjust the latter relative to the angularity of the diverging roof surfaces; adjustable means



fastening the lower ends of said strips in their various positions of angular adjustment to the bottom of said ventilator frame, said means including threaded devices carried by the lower ends of said strips, said devices having shanks received within elongated slots formed in the lower portions of said frame; and binding nuts carried by the shanks of said threaded devices and operative when tightened to retain the adjusted positions of said strips relative to said frame.

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**2,645,993**
**PORTABLE COLLAPSIBLE SMOKE APPARATUS**
**John H. Voss, Chicago, Ill.**
**Application July 19, 1951, Serial No. 237,577**
**2 Claims. (Cl. 99—259)**



1. A portable collapsible smoke apparatus for smoking fish or the like comprising a housing having a bottom wall, side walls hinged to the opposite corresponding edges of the bottom wall, a top wall hinged to a top edge of one of the side walls and having a flange overlapping the top edge portion of the other side wall, said flange having receiving slots formed in its peripheral edge adapted to receive head pins carried by said side walls for detachably connecting said flange to said top edge portion of said side walls, a burner plate having one edge hinged to the said other side wall and located above the bottom wall to provide with the bottom wall an ash chamber, means detachably connecting the opposite edge of said burner plate to said one side wall, a perforated plate having an edge hinged to said other side wall and located above and in spaced relation to the burner plate and providing together therewith and with the side walls a burner chamber, said perforated plate being spaced from the top wall to provide therewith and with the side walls a smoke chamber, means for detachably

connecting the opposite edge of the perforated plate to said one side wall, means adjacent the top edge portions of said side walls for supporting an article of food within said smoke chamber, a front wall having flanges overlapping the side and top walls, a rear wall having flanges overlapping the side and top walls, and means for detachably connecting the front and rear walls independently to the top and side walls respectively, said front wall having a hinged door opposite said burner chamber.

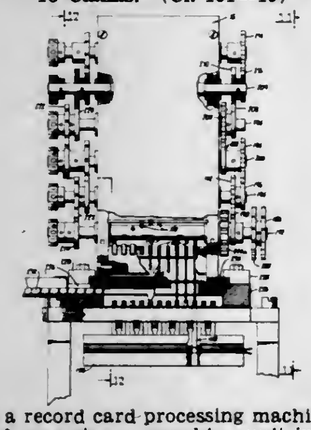
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**2,645,994**

## RECORD CARD PUNCHING AND NUMBERING MACHINE

**Fred M. Carroll, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Application May 12, 1949, Serial No. 92,822**
**18 Claims. (Cl. 101—19)**



1. In a record card processing machine, a record card magazine, a punching unit including a counter for punching serially arranged index points on a record card, means for indexing said counter in each cycle of operation, a device including indexible printing wheels and means for indexing the same in each cycle of operation for printing serial numbers on a record card, a card conveyor for sequentially advancing cards from said magazine in step-by-step relation to said punching unit and to said printing device, means for rendering inoperative said counter indexing means upon absence of a card in said punching unit, a stacking mechanism including a control register for receiving cards from said printing device and stacking the same in groups of predetermined numbers, means for indexing said control register in each cycle of operation, and means for disabling said printing wheel indexing means and said control register indexing means upon absence of a card in said printing device.

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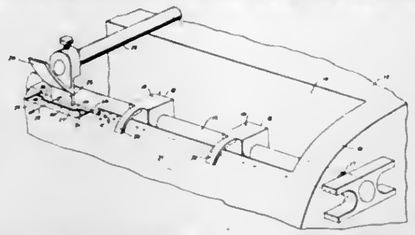
**2,645,995**

## SHEET EDGE TRIMMER FOR PRINTING PRESSES

**John J. Isella, North Haven, Conn., assignor to National Folding Box Company, Inc., New Haven, Conn., a corporation of Connecticut**

**Application August 4, 1949, Serial No. 108,485**
**4 Claims. (Cl. 101—246)**

1. In a cylinder printing press for printing sheets of paper, paperboard and box board, the press including a cylinder, a counter member for the cylinder including a printing plate on the counter member, a stop for engaging the leading edge of sheets fed into the press, and gripper means for clamping the sheets to the cylinder, the improvement which comprises a pair of cutting elements on said cylinder and counter member respectively, the cutting elements comprising a knife and a striking plate opposite said knife, the knife including a portion extending substantially parallel to the leading edge of sheets pass-



ing through the press, said parallel portion lying within that marginal portion of the cylinder which is defined by the reach of said gripper means, whereby an abutment edge is cut at the leading margin of the sheet at a predetermined position with respect to the imprint on the sheet, said cut abutment edge being adapted for positioning the printed sheet in subsequent machine operations.

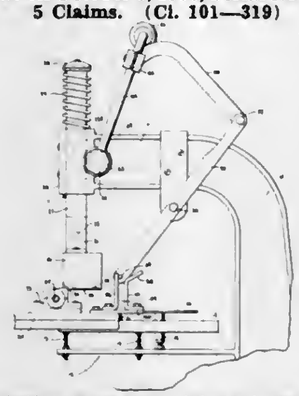
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**2,645,996**

## PRINTING MACHINE

**Charles G. Krakenberg, New York, N. Y., assignor to Checkmaster Systems Inc., New York, N. Y., a corporation of New York**

**Application October 5, 1950, Serial No. 188,498**
**5 Claims. (Cl. 101—319)**



1. A printing press comprising a horizontal slidable bed having a work holding part, a printing head above said bed, a frame for supporting said bed and head, a bearing on said frame, an extension on the printing head slidably carried in said bearing to permit reciprocation of the printing head in a vertical direction, a rack on said extension, a spring acting upon said extension to lift the printing head, a handle lever pivoted to the frame and carrying a pinion in engagement with said rack for moving the printing head toward and away from the work bed, and a system of levers connecting said handle lever to said work bed for simultaneously moving the work holding part of the bed toward the printing head as the latter moves downwardly and away from the printing head as the latter moves upwardly under urgency of said spring, said lever system including a lever pivoted on a horizontal axis and extending downward from said axis toward said bed, a pair of spaced upstanding elements on said bed defining a vertical channel



between them, and a pin at the lower end of said downwardly extending lever and positioned within said channel, the rear one of said upstanding elements having its upper end directed angularly away from the other, whereby swinging movements of said pin-carrying lever are translated by said pin into horizontally directed pressure upon said bed except at the end of rearward movement of said bed at which time said pin engages said angularly directed upper end of the rear one of said spaced elements.

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**2,645,997**

## VIBRATOR UNIT FOR MULTICOLOR PRINTING PRESSES

**Charles C. Grede, Denville, N. J.**

**Application January 4, 1951, Serial No. 204,409**
**1 Claim. (Cl. 101—348)**



In a multicolor printing press, an ink-distributing vibrator unit comprising in combination a vibrator bar, a key member attached to said bar longitudinally along the axis thereof, said key member having a series of slots formed therein, an ink-distributing cylinder carried by said bar, and fastening means carried by said cylinder for detachably securing it to said bar for positively preventing longitudinal movement of said cylinder along the axis of the bar, said fastening means including a latching member pivotally secured to one end of said cylinder, a spring member secured to the aforementioned end of said cylinder for forcing said latching member about its pivot and into engagement with one of the slots formed in said key member, said latching member being bent at one end for slidably retaining one end of said spring member, and said latching member being bent at its opposite end for facilitating the manual application of force in opposition to the force exerted by said spring member for removing said latching member from engagement with said key member.

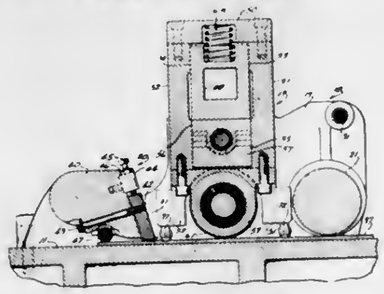
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**2,645,998**

## PRINTING PLATE SOLIDIFYING AND DIMENSIONING METHOD

**Donald C. Cottrell, Fox Point, and Carl C. Sweet, Whitefish Bay, Wis., assignors to C. B. Cottrell & Sons Company, Pawcatuck, Conn., a corporation of Delaware**

**Application January 3, 1949, Serial No. 68,762**
**3 Claims. (Cl. 101—401.3)**



1. The method of acting on a printing plate formed of a metal alloy containing a predominant proportion of lead for the purpose of establishing a predetermined dimensional relationship between the printing face and the back of the plate which consists in placing the printing face of the plate in contact with a rigid non-deformable supporting surface having a predetermined contour coincident with the printing face contour desired, progressively applying rolling pressure to the back of said plate to be acted upon in amount sufficient to cause permanent deformation of the metal alloy in said plate with displacement of the printing face of said plate into conformity with the contour of said supporting surface, said rolling pressure also being in amount sufficient to establish a cold-work induced temporary increase machinability of said metal alloy, and then while said printing face remains in contact with said supporting surface and while said temporary increased machinability persists immediately shaving the back of said plate to a surface having a predetermined dimensional relationship to the printing face of said plate.

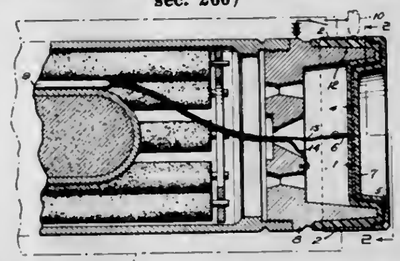
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**2,645,999**

## NOZZLE CLOSURE-CONTACT RING ASSEMBLY FOR ROCKETS

**Ben T. Bogard, Ruston, La.**

**Application July 18, 1947, Serial No. 761,897**
**1 Claim. (Cl. 102—49)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



A nozzle closure for rockets comprising a plastic cup of generally cylindrical outer walls, an opened end and a closed bottom, a central inwardly elevated portion in said bottom having tapered walls, and tapered inner portions on said outer walls to provide an annular trough of downwardly diminishing width to snugly encompass the rim of a rocket nozzle, and a metal skeleton embedded in said cup having an outwardly exposed band portion peripherally of said outer walls, and having a struck portion centrally of said bottom exposed within the cup.

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**2,646,000**

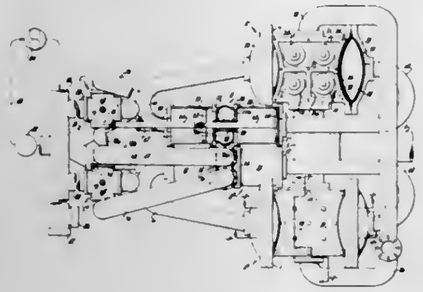
## DIAPHRAGM PUMP AND SYSTEM

**Benjamin F. Schmidt, Los Angeles, Calif.**

**Application March 24, 1949, Serial No. 83,269**
**3 Claims. (Cl. 103—45)**

2. A pumping system comprising: first and second diaphragm pumps, each divided by its diaphragm into a slurry chamber and a working medium chamber; first and second axially aligned piston pumps, each including a floating piston dividing its cylinder into opposed outer and inner chambers, said pistons being interconnected by a common piston rod; hydraulic lines connecting the working medium chambers of said diaphragm pumps respectively with the outer chambers of said piston pumps; a hydraulic circuit including a working medium pump and connected at one end to the inner chamber of one of said piston pumps and at its other end to the inner chamber of the other of said pumps; and valve means

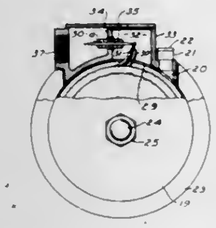
shunted across said hydraulic circuit and responsive to the movement of said piston rod for alter-



nately reversing the flow of working medium to and from the opposed chambers of said piston pumps.

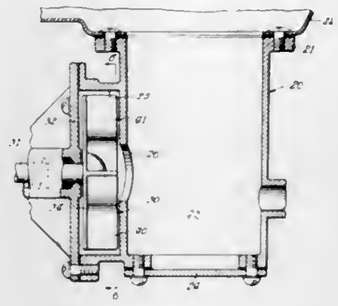
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**2,646,001**
**CIRCULATOR PUMP STRUCTURE**
**William R. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation of California**
**Application September 3, 1946, Serial No. 694,474**
**2 Claims. (Cl. 103—87)**



1. In a centrifugal pump structure: a casing having a partition dividing said casing into an inlet chamber and an outlet chamber; said casing having aligned conduit means forming an inlet and an outlet passageway cooperating with said inlet and outlet chambers respectively; said partition having an opening; said casing having a pair of aligned apertures opening exteriorly of said casing from the inlet chamber and outlet chamber respectively; said pair of apertures being aligned with said opening; a bracket secured to said casing and cooperating with the aperture of said casing on the inlet side, and defining an auxiliary chamber; a motor supported on that side of said bracket remote from said casing, said motor having a shaft extending through said opening into said outlet chamber; a seal structure between said shaft and said bracket for preventing flow of fluid between said auxiliary chamber and said inlet chamber; means detachably securing said seal structure to said bracket; said seal structure being of such size as to permit passage thereof through said opening and said aligned apertures; a runner in the outlet chamber cooperating with the opening and detachably secured to said shaft, said runner being of such size as to permit passage thereof through the aperture of said casing on the outlet side; and a cover plate for the aperture of said casing on said outlet side.

**2,646,002**
**CENTRIFUGAL PUMP**
**Edward J. Frey, Herrin, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**
**Application July 29, 1950, Serial No. 176,668**
**10 Claims. (Cl. 103—103)**

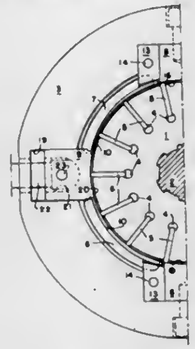


1. A fluid pump of the centrifugal type comprising a casing containing an impeller formed of a back plate having a plurality of vanes secured thereto to leave open passageways between the vanes and the side of the casing opposite said back plate, an inlet passageway in said casing leading to the center of the impeller, an outlet passageway in said casing leading from the periphery of the impeller, said vanes being disposed to divide said impeller into alternately arranged vane chambers with the central regions of the impeller in register with said inlet passageway being free and unobstructed, one of said chambers defining a Venturi shaped passageway with a throat portion opening from and defining the narrowest portion of the free and unobstructed central regions of the impeller and with a relatively wide open end terminating at the periphery of the back plate of the impeller, and the remaining chambers defining passageways closed adjacent the free and unobstructed central regions of the impeller but providing a relatively wide open end terminating at the periphery of the back plate of the impeller, said casing having means defining an outlet adjacent the periphery of the impeller.

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**2,646,003**
**VANE TRACK FOR HYDRODYNAMIC MACHINES**
**Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin**
**Original application November 9, 1946, Serial No. 709,019, now Patent No. 2,627,650, dated February 10, 1953. Divided and this application January 3, 1949, Serial No. 68,880**
**2 Claims. (Cl. 103—120)**

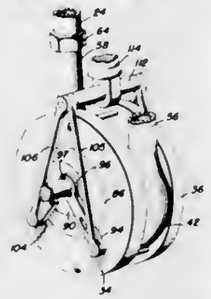
1. An endless vane track of variable length comprising a plurality of alternate fixed and movable bridges spaced around a common center and having arcuate inner faces, two arcuate flexible vane track sections formed integral with each movable bridge and extending from opposite ends of the inner face thereof to the adjacent fixed bridges and having their inner faces forming continuations of the arcuate inner face on said movable bridge, extensions arranged upon opposite ends of each fixed bridge and having the inner faces thereof tangent to the arcuate inner face of that fixed bridge, and abutments fixed to said extensions to support the free ends of the adjacent track sections and having the inner face of each abutment approximately parallel to the inner face of the adjacent extension and spaced radially outward therefrom a distance substantially equal to but not less than the thickness of the end portion of the track section supported thereon to thereby enable that abutment to hold the inner face of the track section thereon flush at one point with the inner face of said



adjacent extension in all positions of the movable bridge with which that track section is formed integral, said flexible track sections being relatively thin adjacent said movable bridges and gradually increasing in thickness toward their free ends to thereby maintain proper curvatures of said sections in all positions of said movable bridges.

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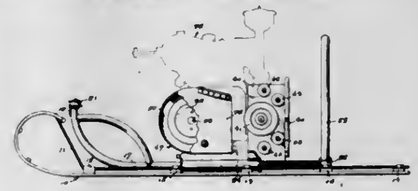
**2,646,004**
**FLUID MOTOR OR PUMP**
**Lionel R. Bergen, Iola, Wis.**
**Application November 28, 1949, Serial No. 129,764**
**1 Claim. (Cl. 103—120)**



A combination motor or pump comprising a casing which includes a pair of end plates with an annular center section disposed between said plates, said end plates having openings therein, a fluid chamber between said end plates and inside said center section fluid inlet and outlet members in said section communicating with said chamber, a shaft passed through said openings, a hub fixed to said shaft and having radially disposed slots, sliding vanes in said slots and engaging the inside surface of said section, an internal cam secured to each of said end plates and engaged by said vanes, and means mounting said shaft in the openings of said end plates and for mounting said casing relative to said shaft for displacement to shift the relative position of the axis of rotation of said shaft including for each plate, a disk mounted in one of the openings and having an aperture eccentric to the axis of rotation of said shaft, and an eccentric disposed in said aperture and carrying said shaft, means operatively connected with said disk and said eccentric for rotating said disk and said eccentric with respect to each other to laterally displace said casing with respect to the axis of rotation of said shaft, said disk and eccentric rotating means including an arm fixed to said eccentric, a second arm mounted rotatively at one end on said shaft, said second arm having a slot therein intermediate its ends, a pin secured to said disk and disposed in said slot, and means connected to the outer ends of said arms for simultaneously actuating said arms.

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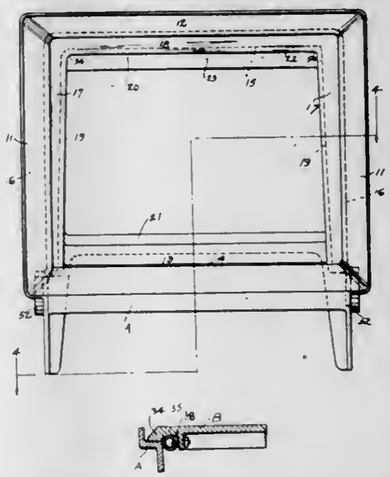
**2,646,005**
**SKI TOW**
**Harvey F. Swenson, Seattle, Wash.**
**Application February 7, 1949, Serial No. 74,929**
**19 Claims. (Cl. 104—173)**



1. In a ski-tow, in combination with a mounting base, an engine supported upon the mounting base for bodily shifting movement in a direction longitudinally of the base, a spool carried by and powered from the engine and arranged to frictionally engage and propel one end of an endless tow rope having its other end passing about a tail pulley, and means functional upon the engine to yieldingly resist loads on the tow rope tending to draw the spool in the direction of the tail-pulley.

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**2,646,006**
**DISCHARGE OUTLET AND CLOSURE ASSEMBLY**
**George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois**
**Application December 24, 1948, Serial No. 67,215**
**10 Claims. (Cl. 105—282)**

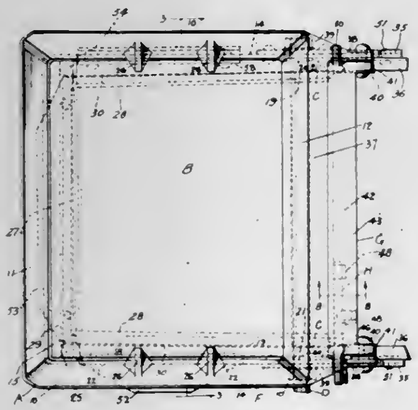


1. In a railway car discharge outlet and closure assembly for location on the underside of said

car, in combination, a frame having a four sided discharge opening defined in part by side walls diverging outwardly to present a wedge shaped opening therebetween, a runway above each side wall, a sliding closure mounted for lengthwise movement above said walls on said runways, said closure having a wedge shaped section on its underside extending in the space between the divergently disposed side walls of the frame to cooperate therewith upon movement of the closure to closed position.

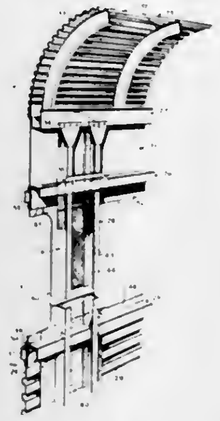
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**2,646,007**
**HOPPER DISCHARGE OUTLET FOR RAILWAY CARS**
**George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois**
**Application April 9, 1949, Serial No. 86,573**
**3 Claims. (Cl. 105—282)**



1. In a discharge outlet assembly for a load containing hopper, said assembly including a four-sided frame having a discharge opening and a sliding gate for closing the opening, said frame having a hopper section above the frame for uniting with the load containing hopper, and a four-sided chute structure with walls extending below said gate, said frame at one end having a slot for the accommodation of the gate therethrough and having at the opposite end a ledge for supporting one end of said gate when it is closed, said gate when in closed position projecting through said slot to present an overhanging portion lying beyond said chute and beneath the upper wall of said slot; the improvement which comprises vertical side walls for said chute extending lengthwise in the general direction of movement of the gate and lying adjacent the sides thereof, and ledges separate and distinct from said frame and extending inwardly from said walls to form runways for supporting the gate, said runways being in the form of angle shaped members having one flange overlying said upright walls and secured thereto and having the other flange forming the runway, said runways being extended across the upper edge of the lower wall of said slot to underlie the overhanging portion of said gate, said overlying flanges of said runways being coped to straddle said lower wall of said slot.

**2,646,008**
**VERTICALLY EXTENDED DEAD LIGHT PANEL OF PASSENGER RAILWAY CARS**
**Rupen Eksergian, Media, and Michael Watter, Philadelphia, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application May 27, 1949, Serial No. 95,644**
**7 Claims. (Cl. 105—401)**



1. In a vehicle body of elongated shape, such as for railway passenger trains; a side wall including a plurality of vertically spaced longitudinal chord structures including a bottom chord, a lower window chord, a window header chord, and a top rail; a plurality of vertical posts arranged with longitudinal spacing in pairs between window openings; a longitudinal structural sheathing member interconnecting and diagonally bracing the bottom chord, the lower window chord and the posts; a longitudinal structural sheathing member interbracing the window header, the top rail and the upper ends of the posts; and structural dead light panels interconnecting the pairs of posts between the window openings; said structural sheathing members and said dead light panels being arranged on the same side of said side wall; at least some of said dead light panels being vertically extended beyond one of said window chords and structurally overlappingly connected through said extension with the posts and the structural sheathing member overlapped by said extension.

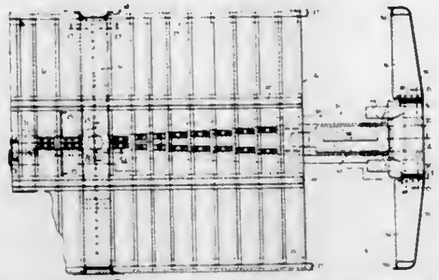
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**2,646,009**
**END UNDERFRAME WELDMENT FOR RAILWAY CARS OF THE PASSENGER TRAIN TYPE**
**Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application January 12, 1950, Serial No. 138,140**
**4 Claims. (Cl. 105—420)**

1. In an end underframe for railway cars of the passenger train type, in combination: a closed box section end sill having two angle section plates facing towards each other and fusion welded together along their margins, the one section forming the top wall and the one upright wall and the other section forming the bottom wall and the other upright wall of the sill; a center sill between said end sill and the location of a bolster beam; said center sill comprising a pair of Z-sections with vertical webs and top and bottom flanges, said webs having straight taper



in side elevation from bolster beam to end sill; a coupler carrier comprising a flat plate welded by its top margin to said end sill; an angle section reinforcement welded to the bottom margin



of said coupler carrier; the vertical webs of said Z-sections being welded to the coupler carrier and forming a part thereof; and gussets interconnecting the bottom flanges of the Z-sections and the coupler carrier.

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**2,646,010**
**COMBINED STRIKING, CASTING, AND BOLSTER CENTER FILLER FOR RAILWAY CAR CONSTRUCTION**
**Karl F. Nystrom, Nashotah, Wis., assignor to International Steel Company, Evansville, Ind., a corporation of Indiana**
**Application December 1, 1950, Serial No. 198,633**
**12 Claims. (Cl. 105—420)**

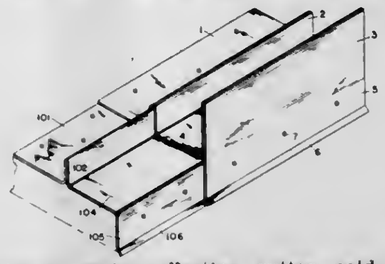


1. A combined striking casting and bolster center filler for railway cars comprising in combination with the center sill of a railway car formed by an inverted channel-shaped structure terminating in a pair of oppositely extending horizontally disposed coplanar flanges, a casting terminating in tapered prongs aligned to enter the end of the inverted channel-shaped structure and having composite curved and linear edge portions extending adjacent the interior walls of said inverted channel-shaped structure for effecting a welded connection therewith, said casting including an integrally formed bolster center filler adjacent said tapered prongs and a striking casting integrally connected therewith at the opposite end of the casting, said casting terminating in oppositely extending horizontally disposed coplanar flanges substantially aligned with the aforesaid flanges on said center sill.

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**2,646,011**
**ROOF GUTTER**
**Drez Ager, Miami, Fla.**
**Application December 6, 1951, Serial No. 260,235**
**3 Claims. (Cl. 108—28)**

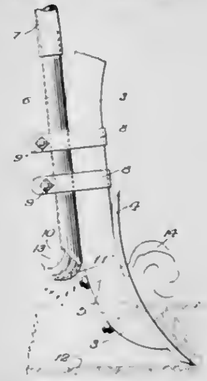
1. In a roof gutter assembly, a trough section formed from a single elongated sheet bent along parallel fold lines longitudinally thereof to define a rear anchor strip adapted to underlie the marginal edge portion of a roof covering, a rear upstanding pleat formed by the frontal continuation of said anchor strip to define a stop member receiving said roof covering thereagainst, a trough bottom disposed in a common horizontal plane with said anchor strip and formed from the forward continuation of said rear pleat, a front upstanding pleat spaced forwardly of said rear pleat and formed from the frontal continuation of said trough bottom to define, in common with said rear pleat and said trough bottom, a



continuous water-collecting gutter, said front pleat rising higher than said rear pleat to define a barrier confining said water therebehind, said front pleat including a downwardly directed fold extending below said trough bottom and terminating along the bottom edge thereof in an outwardly and downwardly inclined marginal flange whereby to define a flashing member.

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**2,646,012**
**DEVICE FOR LIQUID TREATMENT OF SOIL**
**Henry A. Ingalls, Wasco, Calif.**
**Application December 24, 1948, Serial No. 67,169**
**1 Claim. (Cl. 111—7)**

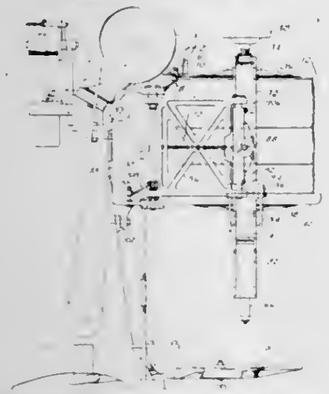


A device for liquid treatment of soil comprising in combination, a generally vertical depending arm mounted for movement across the soil, a furrow-opening blade substantially wider than said arm secured to the lower end thereof, a generally vertical liquid conducting tube having a discharge opening at its lower end, means for adjustably supporting said tube on the rear of said arm behind said blade with the lower end of said tube intermediate the ends of said blade and disposed above the level of the normal soil surface when said blade is in furrow-opening position, said discharge opening facing rearwardly and downwardly, and a spreader including a rearwardly extending curved lip fixed to the lower end of said tube under and contiguous to said discharge opening for developing a rearwardly and laterally directed spray from the liquid conducted by said tube for liquid treatment of the faces of the furrow formed by said blade, the

width of said lip being less than that of said discharge opening, whereby a non-clogging liquid spreader is formed.

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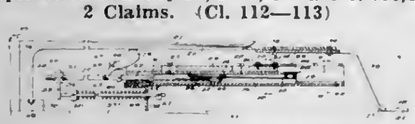
**2,646,013**
**MACHINE FOR MAKING HASSOCKS**
**Otto R. Haas, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application September 19, 1947, Serial No. 774,943**
**6 Claims. (Cl. 112—2)**



1. A machine for fastening hassock ends to the side walls of tubular casings while enclosing a compressed volume of stuffing material, having fastening devices, a fixed bracket and a movable hassock support on the bracket to facilitate presentation of a hassock to the fastening devices, in combination with clamping means in the support for holding the stuffing material in the hassock from endwise expansion to cause the edge of a hassock end to be brought into uniform alinement with the edge of the side walls before fastening, a vertical hinge mounting in the support for the clamping means to enable a hassock while held within the clamping means to be swung bodily toward and from the fastening devices, and a second vertical hinge mounting between the first hinge mounting and the bracket to enable movement of the hassock bodily in the direction of the line of the seam inserted by the fastening devices.

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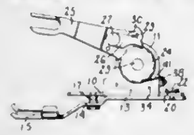
**2,646,014**
**BUTTON INJECTOR AND POSITIONING ATTACHMENT**
**Roy E. Fowler, Watkinsville, Ga., assignor of one-half to Luther Henson, Athens, Ga.**
**Application January 17, 1951, Serial No. 206,467**
**2 Claims. (Cl. 112—113)**



1. In a button injector and positioner attachment, the combination which comprises an elongated mounting bar having continuous grooves providing tracks in the edges, a slide, channel-shape in cross section having a web with flanges at the sides positioned in the mounting bar and having ribs on the flanges which are positioned to slide in the tracks of the mounting bar, an upper bar carried by the slide, said slide having an open button receiving area positioned beyond the end of said upper bar, the web of said slide having openings therein and said openings positioned in the button receiving area at the end of the upper bar, a spring arm having spaced pins on one end, means mounting the spring arm on the slide whereby the pins are positioned to register with said openings in the web of the slide, means for actuating the spring arm whereby said pins are withdrawn from the openings of the web of the slide, a rubber strip having a rough face mounted in the mounting bar and positioned to be engaged by a button in said button receiving area of the slide for rotating the button in said area as the button is moved forwardly by the slide, means for manually actuating the slide, resilient means urging the slide away from the button feeding position, a bracket extended over the attachment and adapted to be pivotally mounted on the machine, a foot extended downwardly from the extended end of the bracket and adapted to position a button on a piece of material on the machine, means actuating said bracket for positioning the foot at the discharge end of the slide for receiving a button from the said upper bar thereof, and a button feeding chute extended from one side of the mounting bar.

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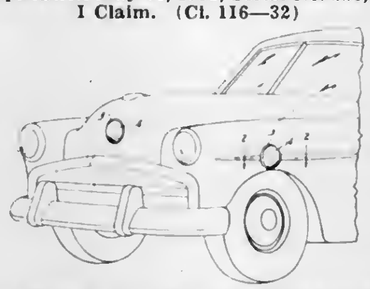
**2,646,015**
**BLIND STITCHER**
**Harry N. Johnson, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut**
**Application April 21, 1951, Serial No. 222,197**
**9 Claims. (Cl. 112—160)**



1. In a blind stitch attachment for sewing machines, a frame having a horizontally disposed base member, a lever pivotally secured to the base member, said lever being provided with a cloth-holding foot at its forward end, a slide movably mounted on the base member and provided with a cam slot, said lever having a part engaged in said slot, an oscillatable fork arm mounted on the frame, means actuated by the fork arm to move said slide in one direction and a spring connected to the frame member and slide to effect return movement of the slide.

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**2,646,016**
**VEHICLE COLLISION INDICATOR**
**Loyal Vern Wilson, Albany, Oreg.**
**Application May 24, 1951, Serial No. 228,047**
**1 Claim. (Cl. 116—32)**



An article of the class described comprising in combination a container of semi-spherical formation in cross section, a base of transparent material molded integrally with the rim of said container, a colored fluid contained within the container, a hub molded integrally with said base and extending into the container, and a fastening element threaded into said hub for securing the article to a support.

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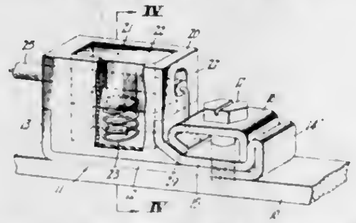
**2,646,017**
**SAFETY SPEED ALARM**
**Merritt M. Mitchell, Rochester, N. Y.**
**Application December 4, 1951, Serial No. 262,381**
**4 Claims. (Cl. 116—74)**



1. In an alarm device for giving a warning when a predetermined speed of rotation of a horizontally mounted shaft is reached, said device comprising a frame plate rotatable in a vertical plane synchronously with said shaft, a stub shaft mounted on said plate to project horizontally therefrom, an elongated rotor pivotted on said stub shaft to swing thereon as said plate is rotated, spaced bumpers projecting from said plate in the path of said rotor to limit the arc of swing thereof, at least one of said bumpers being resilient to cause said rotor to rebound therefrom, and means supported within said rotor and cooperating therewith to give a signal.

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**2,646,018**
**ELECTRICAL TERMINAL DETECTING SIGNAL**
**William V. Eakins, Buffalo, N. Y.**
**Application March 15, 1951, Serial No. 215,750**
**8 Claims. (Cl. 116—114)**



1. Electrical terminal means comprising a releasable clamp, means adjacent to said clamp engaging against a conductor having its end engaged in said clamp and bearing against said conductor in a direction generally outwardly of said clamp, resilient means urging said engaging means to withdraw the conductor end from said clamp when the clamp is loose, and signal means on said engaging means rendered visible by such movement of the engaging means.

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**2,646,019**
**SIGNAL BALLOON**
**Carl H. Chetlan, Cleveland, Ohio, assignor of one-half to Virgil Burnette, Rittman, Ohio**
**Application September 14, 1951, Serial No. 246,623**
**2 Claims. (Cl. 116—114)**

1. In a lifesaving device; a balloon member having a neck; a tubular housing including a removable cap at one end; said cap extending into and being embraced by the neck of said balloon member; there being ports in said cap providing communication between the balloon member and the interior of said housing; a bottle having one end closed and having the other end terminating in a closed neck positioned wholly within said housing and spaced from the wall of said housing with the closed one end engaged with the interior surface of the cap and the closed neck extending axially toward the other end of said housing; said bottle being adapted to contain a balloon inflating element; a transversely disposed partition adjacent to and spaced from the other end of said



housing; said partition having an aperture through which extends the closed neck of the bottle; the wall of said aperture being fluted to permit escape of the inflating element between the closed neck of the bottle and the wall of the aperture when the bottle is punctured; and a plug threaded in said other end of the housing and having a fluted prong on its inner end arranged to extend into the aperture to puncture the end of the closed bottle neck responsive to threading of the plug inwardly of the housing, for release of said element to pass through the aperture and into the space between the bottle and the housing side wall for discharge through the ports to inflate the balloon member.

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**2,646,020**
**TAPE MOISTENING DEVICE**
**Paul W. Herrlinger, Troy, Ohio, assignor to The Gummed Products Company, Troy, Ohio, a corporation of Ohio**
**Application May 9, 1951, Serial No. 225,374**
**1 Claim. (Cl. 118—217)**



In combination in a tape moistening device for moistening continuous lengths of gummed tape at high speeds in an even and uninterrupted manner without permitting the gumming to become streaked or puddled, a liquid receptacle, a primary moistening means mounted in said receptacle comprising a roll applicator adapted to be rotated by the movement of the tape over said roll, a lead-in roll for positioning the tape prior to its passage over the roll applicator, a lead-out roll on the other side of said roll applicator, said lead-in and lead-out rolls being positioned be-

neath the upper surface of said applicator roll so as to cause the tape to be tensioned over said applicator roll, a secondary moistening means comprising a brush applicator mounted in said receptacle ahead of said lead-out roll and adapted to be contacted by the tape as it passes beyond said lead-out roll so as to evenly distribute the moistening liquid applied to the tape by the applicator roll, said secondary moistening means including a brush holder pivotally connected to said receptacle, and counter-balancing means for causing said brush applicator to be normally pivoted to a position in which it contacts the under surface of the tape, said counter-balancing means acting to maintain said brush applicator in contact with the tape under predetermined pressure, a carrier roll beyond said brush applicator for receiving the moistened tape as it passes over said brush applicator, said carrier roll being positioned relative to said lead-out roll so as to position the tape in substantially planar condition for contact by said brush applicator, said carrier roll comprising a grooved roll in which the contacting surfaces of the roll are reduced to a minimum.

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**2,646,021**
**FISH BOWL AND HOLLOW HANDLE ASSEMBLY**
**Earl A. Rice, Mercersburg, Pa.**
**Application February 21, 1951, Serial No. 212,064**
**3 Claims. (Cl. 119—5)**

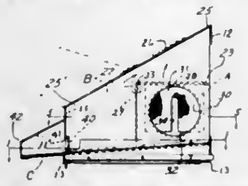


1. In an aquarium, a bowl having an elliptical shaped open mouth in the top thereof, a vertically disposed web integral with the bowl and surrounding said mouth, a generally horizontal top wall area on the bowl at opposite sides of the elliptical shaped mouth, an arcuate portion integral with the web at one side of the mouth forming a socket above one of said top wall areas in open communication with the interior of the bowl, an arcuate portion integral with said web at the opposite side of the mouth forming a second socket above the other top wall area in open communication with the interior of the bowl, an inverted U-shaped tube having depending legs extending into said sockets, and the lower ends of said legs terminating below the top of said web.

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**2,646,022**
**COMMUNITY LAYING NEST**
**John B. Olson, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a company of Wisconsin**
**Application February 12, 1951, Serial No. 210,493**
**3 Claims. (Cl. 119—48)**

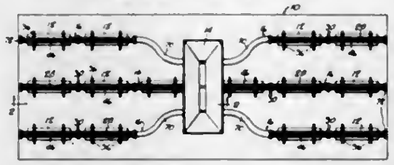
1. In a community laying nest of the character described comprising in combination, an elongated roofed inclosure having a wire screened floor for the length and width of the enclosure, a longitudinal fabric partition forming a nest and a hallway compartment for the length of the enclosure, openings in the end walls of said enclosure in alignment with said hallway for a passageway from the exterior into and from said hallway, longitudinally spaced transversely posi-



tioned channel shaped elements adapted to act as supports for said screen floor, narrow vertically positioned openings in said fabric curtain and extending a distance from the bottom thereof and positioned transversely midway said channels for indicating nest positions between said channels.

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**2,646,023**
**AUTOMATIC FOWL FEEDING DEVICE**
**Richard K. Virgil, Granger, Ind.**
**Application December 18, 1948, Serial No. 66,060**
**9 Claims. (Cl. 119—52)**



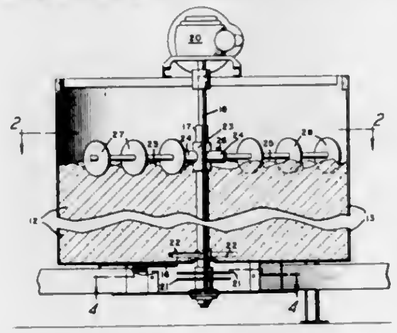
1. A feeding device adapted to discharge feed from a hopper to a trough open at its top and comprising a tubular unit adapted to be connected to said hopper and including a portion positioned above said trough, and an elongated power driven member rotatable in said tubular member for advancing granular material through said tubular member, said tubular unit constituting a plurality of sections, means connecting said sections end to end and means supporting each section, at least one section having a longitudinal elongated slot in the bottom of the portion thereof positioned above the trough, said supporting means positioning the bottom of the slotted tubular section substantially at the level of the edge of the top of the trough whereby the granular material filling said trough to a predetermined level engages said tube to close said slot.

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**2,646,024**
**FEED LEVELER**
**Marvin L. Smallegan, Zeeland, Mich., assignor to Automatic Poultry Feeder Company, Zeeland, Mich, a corporation of Michigan**
**Application April 15, 1950, Serial No. 156,110**
**2 Claims. (Cl. 119—52)**

1. In a dispenser for dry, divided materials having a trough and a chain movable along said trough, a cylindrical hopper above said trough, the combination comprising: a vertical shaft extending through said trough and said hopper concentrically of said hopper; a sprocket on the lower end of said shaft adapted to engage said chain; a pair of rods mounted on said shaft for rotation therewith, said rods being slidable axially of said shaft; means for preventing rotation of said rods relative to said shaft; a plurality of spaced discs mounted on each of said rods, each of said discs being parallel and inclined in a horizontal plane to said rods, and of substantially greater diameter than said rods; an opening in said hopper adjacent said shaft and providing a passageway between said hopper and

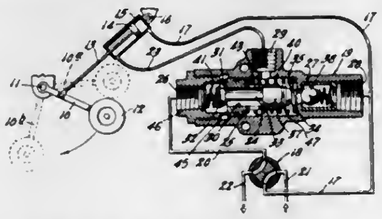




said trough; a pair of arms mounted on said shaft for rotation therewith within said hopper and adjacent said opening; means for rotating said shaft in the direction of the radially outwardly extending edges of said discs.

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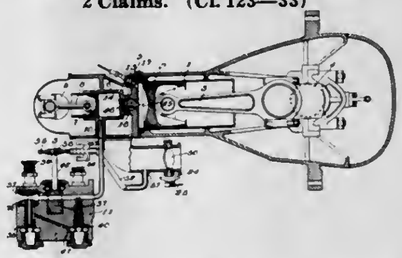
**2,646,025**
**BY-PASS VALVE FOR HYDRAULIC MOTORS**
**Clinton E. Deardorff, San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application February 7, 1951, Serial No. 209,848**
**8 Claims. (Cl. 121—38)**



1. A valve for use with a reversible hydraulic motor having a pair of ducts and means for simultaneously connecting either duct to a source of pressure fluid and the other duct to exhaust, said valve comprising: a valve body having first and second ports adapted to be connected in series in one of said ducts with said second port nearest the motor, and a third port adapted to be connected to the other of said ducts; said body defining a passage interconnecting said first and second ports; first valve means in said passage comprising a pair of cooperating valve elements both movable in said passage and movable relative to each other between open and closed positions; first spring means urging one element away from said first port and in valve closing direction with respect to the other element; second spring means urging the other valve element toward said first port and in valve closing direction with respect to said one element; said valve elements having pressure faces responsive to differential pressures between said first and second ports to open said first valve means in response to a pressure differential of predetermined magnitude between said first and second ports in either direction; second normally closed valve means between said second and third ports, and means responsive to pressure in said second port exceeding the pressures in both said said first and third ports for opening said second valve means.

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**2,646,026**
**THERMAL MOTOR WITH INJECTION CYLINDER**
**Jean Henry Jalbert, Paris, France**
**Application July 31, 1947, Serial No. 765,186**
**In France November 22, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires November 22, 1963**
**2 Claims. (Cl. 123—33)**



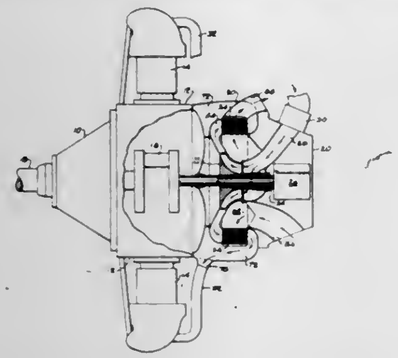
1. In a thermal motor, a motor cylinder, ignition means, a motor piston working in the cylinder, a motor shaft, a connecting rod joining the piston to the shaft, an injection cylinder, means for affording communication between the injection cylinder and the motor cylinder, an injection piston working in the injection cylinder and driven by the motor shaft, a pipe for admitting pure air to the motor cylinder, a quantitative control valve arranged in the air pipe, manual control means for said valve, a deformable member responsive to pressure and communicating with the air admission pipe, a carburetor, a pipe for the gas-air mixture connecting said carburetor to the injection cylinder, quantitative control means arranged in the gas-air pipe and controlled by said deformable member, the injection piston injecting into the pure air drawn into the motor cylinder, at the end of the intake stroke, and at the beginning of the compression stroke of the motor piston, the gas air mixture formed in the carburetor, in order to produce in the motor cylinder a homogeneous mixture capable of electrical ignition by said ignition means.

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**2,646,027**
**AFTERCOOLER CONSTRUCTION**
**Edward Ackerman, Hawthorne, Angelo De Feo, Paterson, and William H. Francisco, Jr., Bloomfield, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware**
**Application February 28, 1951, Serial No. 213,076**
**10 Claims. (Cl. 123—119)**

1. In a multi-cylinder internal combustion engine; a supercharger for the engine intake air; a housing for said supercharger; an annular heat exchange structure disposed within said housing co-axially about said supercharger, said heat exchange structure having alternate first and second circumferentially-spaced passages forming a complete annulus; a first annular manifold disposed within said housing and communicating with the discharge end of said supercharger and with one end of said first passages whereby after compression by said supercharger the engine intake air flows into said first manifold and thence through said first passages; a second annular manifold disposed within said

housing and communicating with one end of said second passages; and passage means for supplying cooling air from a point outside said housing



to said second manifold for flow through said second passages for cooling said engine intake air.

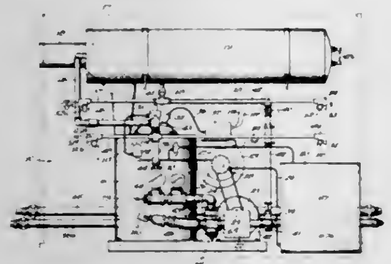
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2,646,028

## STANDBY HOT WATER HEATER FOR BUSES

**Edward A. Russell, Chicago, and Norman O. Kirkby, Elmhurst, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware**

**Application September 29, 1950, Serial No. 187,391**
**15 Claims. (Cl. 123—142.5)**



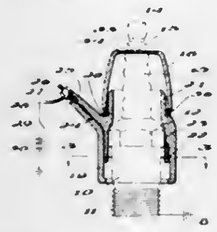
3. A water heating and distributing system for supplying hot water to the water circulating systems of a plurality of motor vehicles, comprising in combination means for heating water, a delivery conduit leading from the water heater and communicating wtih the water circulating systems of a plurality of motor vehicles, a return conduit leading from the water circulating systems of the motor vehicles to the water heater, an electrically operated pump connected in one of said conduits for forcing the water through the water heater and through the water circulating system of said motor vehicles, means responsive to a predetermined external temperature for automatically starting and stopping the system as a whole, and means including a device interposed in the water delivery conduit and responsive to a predetermined minimum temperature of the water being circulated and cooperating with the external temperature responsive means for activating the water heating means and responsive at a predetermined maximum temperature of the water being circulated to deactivate the water heater.

2,646,029

## SPARK PLUG HEATING AND PROTECTING ATTACHMENT

**John E. Holmberg and Alvin J. Gruener, Duluth, Minn.; said Gruener assignor to Michael F. Stoffel, Minneapolis, Minn.**

**Application February 6, 1950, Serial No. 142,624**
**4 Claims. (Cl. 123—169)**



1. A heating and protecting device for spark plugs of the type having a metal base portion and a central terminal pole at the upper end for receiving an attaching device for an ignition wire, comprising a lower hood portion adapted to slip over the upper end of a spark plug and to fit closely about said metal base portion, an electric heating element carried by said lower hood portion and located adjacent said metal base portion when said lower hood portion is mounted on a spark plug, said lower hood portion having a flat upwardly facing surface and an upwardly extending section of reduced diameter lying above said surface, an upper hood portion fitting about said upwardly extending section in telescoping manner with its lower edge opposite said surface, said upper hood portion having a portion of diminished diameter at its upper end provided with an opening to fit over said central terminal pole below said attaching device, whereby said hood is held securely but removably in place, and a coil spring positioned about said upwardly extending section and compressed between said surface and said edge when said hood is in operating position.

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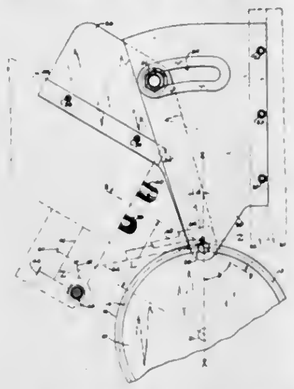
2,646,030

## APPARATUS FOR DRESSING GEAR TEETH GRINDING WHEELS

**Charles S. Davis, Jr., New York, N. Y., and John E. Rice, Jr., Pompton Plains, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware**

**Application July 19, 1950, Serial No. 174,742**
**8 Claims. (Cl. 125—11)**

1. Apparatus for dressing a disc-like abrasive wheel for grinding gear teeth in a generating-type gear tooth grinding machine; said apparatus comprising first and second brackets pivotally connected on an axis disposed parallel to the axis of said wheel; adjustable means locking said brackets together in any one of a plurality of positions of relative pivotal adjustment about said axis; support means having a linear guideway; means supporting one of said brackets on said guideway in any one of a plurality of positions therealong, said guideway being disposed so that upon movement of said one bracket therealong said pivot axis moves along a line radial relative to the axis of said wheel; dressing tool drive mechanism mounted on the other of said brackets, said mechanism including a pair of inclined shafts to be reciprocated thereby; and a pair of abrasive wheel dressing tools, one for and secured to each of said shafts for reciprocation of each tool by its shaft along a straight-line path inclined to a plane perpendicular to



the axis of said wheel and inclined to the corresponding path of the other tool.

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2,646,031

## UTILITY STOVE

**Victor R. Wagner, Lakewood, N. Y., assignor to Carolyn L. Wagner and Victor Roy Wagner, Jr., executors of said Victor R. Wagner, deceased**

**Application June 22, 1948, Serial No. 34,512**
**1 Claim. (Cl. 126—9)**



A knock-down campers' utility stove comprising a pair of sheet metal support panels each presenting a wall portion and side flange portions extending from the wall portion, a pair of opposite sheet metal suspension panels, means for detachably connecting said suspension panels to said support panels to provide a walled enclosure, said connecting means comprising heat resistant headed rivets spaced along the opposite side margins of each suspension panel operative to removably interlock into corresponding bayonet slots formed in the flange portions of said support panels, a receptor pan providing a base upon which said support panels are supported, said receptor pan having flange portions designed to receive and resiliently grip the lower ends of said support panels when seated within the receptor pan, a removable grate member fittable within the walled enclosure formed by the connected support panels and suspension panels, each of said suspension panels having an inturned flange adjacent the lower edge thereof providing a rest support for said grate member in spaced relation to said receptor pan, said suspension panels being of shorter length than said support panels providing a grate updraft passage therebelow, and a top panel adapted to be removably supported on the upper ends of said connected support panels and suspension panels providing a hot plate for the assembled stove.

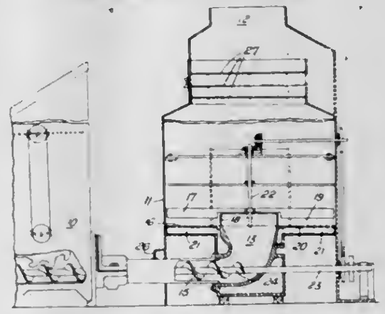
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2,646,032

## APPARATUS FOR PRODUCING SMOKE

**Frederick William Horn Watson, Glasgow, Scotland, assignor to The Mirrlees Watson Company Limited, Glasgow, Scotland, a company of Great Britain and Northern Ireland**

**Application June 13, 1950, Serial No. 167,900**
**In Great Britain June 23, 1949**
**1 Claim. (Cl. 126—59.5)**



A smoke-producing apparatus for use in the curing industry, including an upright casing provided with an outlet for smoke at the top, a retort structure located centrally in the lower portion of the casing and having a diverging wall terminating in a fuel outlet opening facing upwardly in the casing, a laterally-extending worm for feeding fuel into the lower portion of and upwardly through the retort structure, a perforated laterally-extending grate on a level with and surrounding the outlet portion of the retort structure for supporting a fuel bed, a rising ring fitted around the outlet opening at the top of the retort structure and adapted to cause fuel fed upwardly in the retort structure to move upwardly to a level above the said grate and be deposited on top of the fuel bed on the grate, a rotary fuel spreader immediately above the ring including an upright shaft axially arranged with respect to the ring and laterally-extending blades carried on the lower end portion of the shaft and extending radially directly over the top of the ring and over the grate and spaced a substantial distance above the grate, said blades being adapted to spread the fuel delivered through and to the top of the ring over the surface of the fuel bed on the grate, said blades having operative edges located below the level of the top of the rising ring, means interconnected with the worm and with the upright shaft above the blades for driving the shaft and the blades, a smoke filter in the upper portion of the casing above said upright shaft, and means including a power-driven variable-output pump for supplying a metered quantity of water to the fuel being fed to the retort structure by the worm.

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2,646,033

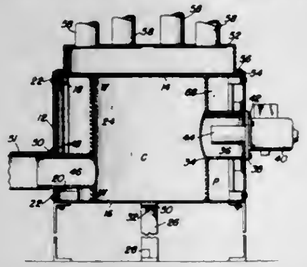
## AIR-HEATING FURNACE WITH BAFFLED ANNULAR AIR-HEATING PASSAGEWAY

**Domenico A. Marro, Rutland, Vt.**

**Application August 24, 1950, Serial No. 181,186**
**2 Claims. (Cl. 126—99)**

1. A furnace comprising inner and outer concentric walls having an air passage therebetween,

a bottom plate closing the lower ends of both walls, an upper plate closing the upper ends of both walls, a hollow member supported upon the upper plate, a plurality of outlet pipes extending from the member, said upper plate having a single opening forming a communication between the interior of said member and said passage, a burner supported exteriorly of said outer wall and including a discharge end extending radially through both walls and terminating within the



confines of the inner wall, an outlet conduit extending radially through both walls and having an inlet end within the confines of the inner wall, baffle means within the passage, and an air inlet pipe having an outlet end entering the passage and a vertical partition between said walls, said partition being located between said pipe and said opening whereby air entering the passage by way of the pipe will be directed about the passage before rising in the opening.

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**2,646,034**
**WRIST BANDAGER**
**Eugene Chapados, Paspebiac, Quebec, Canada**
**Application January 14, 1952, Serial No. 266,333**
**5 Claims. (Cl. 128—1)**

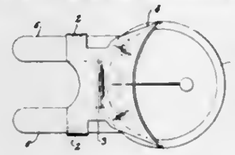


1. A wrist bandager for facilitating the application of a bandage to the wrist of a hand, including a pair of arcuate wrist bows adapted to envelop the wrist from the same side in spaced apart relation, means interconnecting the bows at one end of each, and removable means interconnecting the other end of each bow allowing the bows to be removed from the wrist when a bandage has been wound upon the wrist with the bandager in position.

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**2,646,035**
**SHIELD FOR NEUROCALOMETERS**
**George E. Anderson, Davenport, Iowa**
**Application September 1, 1951, Serial No. 244,759**
**12 Claims. (Cl. 128—2)**

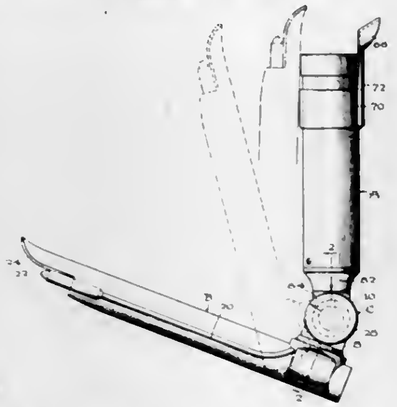
1. A shield for neurocalometers or similar instruments as described, comprising a narrow base, lateral arms united to the base curved downwardly and adapted to embrace the prongs



of a neurocalometer, and a curved body united to and extending upwardly from the base.

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**2,646,036**
**FOLDABLE AND SEPARABLE LARYNGOSCOPE**
**William G. Allyn, Skaneateles, and Charles Sewell Cook, Sennett, N. Y., assignors to Welch Allyn, Inc., Auburn, N. Y., a corporation of New York**
**Application March 24, 1950, Serial No. 151,622**
**6 Claims. (Cl. 128—6)**



2. A laryngoscope comprising a handle member, a blade member, and a rotary hinge joint connecting the blade member and handle member, including complemental, laterally disposed coacting joint parts carried by the blade member and handle member and interconnecting the blade and handle members together, the said joint parts respectively having separable means freely interengaged with each other for enabling the blade to be freely shifted by gravity between a folded inoperative position relative to the handle and an extended operative position projecting from the handle, and said coacting joint parts having means frictionally engaging each other for holding the blade member in its extended operative position.

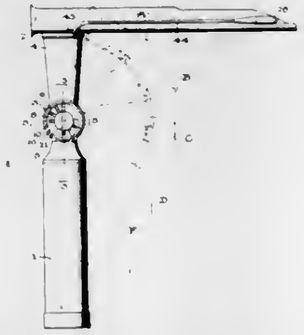
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**2,646,037**
**LOCKING MEANS FOR FOLDING LARYNGOSCOPES**
**Charles S. Cook, Sennett, and Harry L. Becker, Auburn, N. Y., assignors to Welch Allyn, Inc., Auburn, N. Y., a corporation of New York**
**Application June 23, 1950, Serial No. 169,918**
**12 Claims. (Cl. 128—6)**

9. An angularly adjustable and separable joint connection, comprising a pair of relatively rotatable, complemental members, means separably connecting said members together, one of said members being provided with a locking ring and the other of said members being provided



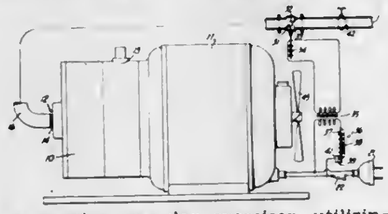
with a shiftable hinge pin therethrough, said hinge pin having means for selective inter-engagement with said locking ring in a plurality of positions and positively locking said joint in the desired angularly adjusted position, and means for biasing the means on the hinge pin into inter-engagement with said locking ring,



said locking ring being provided with an opening therethrough for permitting disengagement of said means on the hinge pin and said locking ring with attendant lateral separation of said complemental members in a single predetermined position while preventing separation in every other relative position of the members aforesaid.

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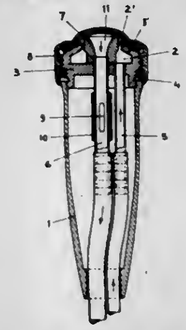
**2,646,038**
**PASSIVE VASCULAR EXERCISER**
**Lillian V. Iwan, Brisbane, Calif.**
**Application July 21, 1950, Serial No. 175,209**
**1 Claim. (Cl. 128—40)**



In a passive vascular exerciser, utilizing reduced pressures, capable of producing temporary dilation of the capillaries and the small blood vessels under the skin, thereby increasing the blood flow and improving nutrition of the tissues, and stimulating metabolism leading to the absorption of fat, said exerciser comprising a plurality of bell-shaped cups adapted to engage portions of the human body, said bell-shaped cups being connected by flexible tubular members to a pulsing vacuum source comprising a pump, and an electric motor, said electric motor being energized by an electric current through a manually operated switch and a series wound interrupter, said interrupter comprising an insulated bimetallic strip with one fixed contact and one movable contact, said bimetallic strip surrounded by a resistance coil through which the current to the motor must pass, said current heating said resistance coil thereby causing the bimetallic strip to expand and forcing said movable contact from a normally closed position into an open position, said movement thereby opening the circuit to the electric motor until the said bimetallic strip cools and again returns movable contact to normally closed position, thereby causing variable sub-atmospheric pressure changes to be transmitted to said bell-shaped cups.

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**2,646,039**
**MASSAGE DEVICE**
**Dora Agosti, Zurich, Switzerland**
**Application August 20, 1951, Serial No. 242,757**
**In Switzerland August 21, 1950**
**5 Claims. (Cl. 128—64)**



5. Massage device comprising an elongated housing, a member of rigid material across one transverse end of the housing and having a formed recess in its face directed outwardly from the housing, a hollow cylinder at the center of the member and of a height greater than the depth of the formed recess, a water inlet tube opening into the recess at a lower region thereof, a water outlet tube extending through the member and connecting to the interior of the hollow cylinder at the end thereof abutting the member, the outlet tube having a perforated portion within the interior region of the housing between the member and the other transverse end of the housing, an elastic diaphragm stretched over the outwardly directed transverse face of the member having the formed recess and engaging the transverse face of the hollow cylinder remote from the water outlet tube, and an elastic member stretched over and covering the perforated portion of the outlet tube.

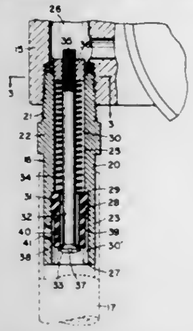
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**2,646,040**
**BANDAGE**
**Austin N. Stanton, Garland, Tex.**
**Application December 15, 1949, Serial No. 133,062**
**4 Claims. (Cl. 128—155)**



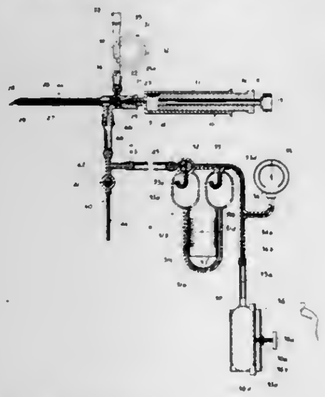
1. A bandage comprising a substantially rectangular cover member having an adhesive undersurface; and a gauze pad attached to said adhesive undersurface intermediate the ends of said cover member and extending transversely of said cover member and from side to side of said cover member, each end of said cover member being provided with a pair of laterally spaced slits extending longitudinally of said cover member from points adjacent a side of said gauze pad to the end of said cover member, said slits dividing each end of said cover member into three strips.

**2,646,041**
**METERING APPARATUS FOR OXYGEN TENTS**
**John Gilroy, Sun Prairie, and Arthur R. Wiese, Jr., Madison, Wis., assignors to Air Reduction Company, Incorporated, a corporation of New York**
**Application March 23, 1951, Serial No. 217,201**
**4 Claims. (Cl. 128—185)**



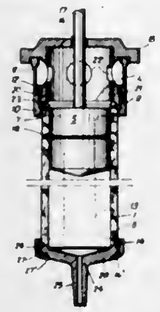
1. Apparatus for metering oxygen to an oxygen tent comprising, an oxygen tent enclosure, a source of oxygen, a pressure regulator connected to said source for delivering oxygen at a regulated metering pressure to a metering valve connected to the delivery side of said regulator, said valve having a small opening and a large opening in parallel-flow relation, means associated with said regulator for adjusting said metering pressure, means responsive to changes in said adjusted metering pressure for automatically causing oxygen to be delivered solely through said small opening or through both of said openings of said metering valve in accordance with the value of said metering pressure, and means for conducting the oxygen passing through said metering valve opening or openings to said oxygen tent enclosure.

**2,646,042**
**MEDICAL APPARATUS**
**Quang Hsi Hu, New York, N. Y.**
**Application May 18, 1951, Serial No. 227,053**
**10 Claims. (Cl. 128—214)**



1. Medical apparatus for injecting into and withdrawing fluids from the body, comprising a body member having a three-way passage and a needle with a multiple channel in communication with said passage, operable means for selectively passing fluid through the passage, selectively rotatable plug means for directing the flow of fluids through the body member, and syringe means attachable to the body member having an interplunger and a measuring plunger movable in the interplunger to regulate the flow of fluid through the body member into one of the channels of the needle, said needle having a channel with an external side opening disposed short of the puncturing end thereof and being concentric with respect to the axis of the needle.

**2,646,043**
**PISTON SYRINGE FOR MEDICAL USE**
**Sonja Hertig-Hüsler and Werner Hertig, Bassecourt, Switzerland**
**Application December 11, 1950, Serial No. 200,287**
**In Switzerland May 25, 1950**
**4 Claims. (Cl. 128—218)**



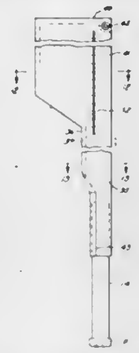
1. Syringe comprising in combination, an inner tube and a piston and piston rod reciprocable within said tube, the rims of said tube having a wedge-shaped cross-section, a protective shell surrounding said tube being open at both ends, the shell section surrounding the piston entrance of said tube being a threaded sleeve with a rim fitting the tube rim, an inwardly extending flange at the suction end of said shell, an outwardly flanged nozzle abutting by its flange against the inwardly extending shell flange and being formed with a flange surface fitting the rim of the suction end of said tube, and a hollow flanged screw cap formed with a passage for the rod of said piston and fitting the thread of said shell sleeve.

**2,646,044**
**COLLAPSIBLE BOTTLE**
**Samuel L. Diack, Portland, Oreg.**
**Application November 16, 1948, Serial No. 60,290**
**1 Claim. (Cl. 128—227)**

A disposable, collapsible bottle suitable for administering liquids for hygienic irrigational purposes, said bottle comprising a unitary blank of flexible, water-impervious sheet material having a wide, generally rectangular portion at one end, a narrow elongated portion at the other end and a trapezoidal-shaped portion intermediate the wide and narrow portions, said blank being symmetrical with respect to its longitudinal medial line and folded about said medial line with opposite longitudinal edges of the blank sealed in superposed edge-to-edge relation, whereby said folded blank defines a bottle having a reservoir for a liquid, said reservoir having a sloping bottom communicating with a delivery tube, the delivery tube

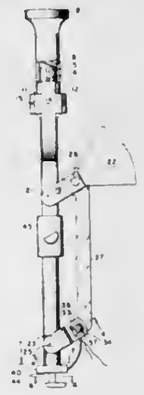


terminating in a liquid-discharge outlet, the lower portion of said delivery tube having an adhesive



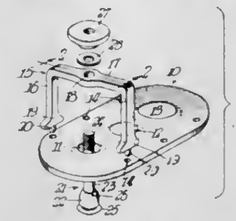
therein and a rigid tubular dispensing tip sealed within the tube by said adhesive and projecting from the discharge outlet of the delivery tube.

**2,646,045**
**MECHANICAL SUTURING DEVICE**
**Bruno S. Priestley, New York, N. Y.**
**Application May 1, 1951, Serial No. 223,945**
**9 Claims. (Cl. 128—340)**



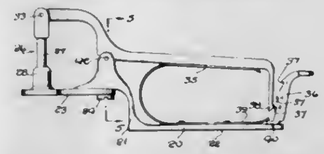
1. In a suturing device of the kind described, a curved needle, a suture engaged by the needle, a needle operating arm in which the shank of the needle is securely but removably held, a shaft on which said arm is pivotally mounted for oscillatory movement, the arc of oscillation of said arm corresponding substantially to the arc of curvature of said needle, a shaft mounted with the first named shaft to move parallel therewith said second named shaft having a divided foot or base providing a passage in which the needle moves, a foot or base on the first shaft substantially opposed to the foot of the second and having a needle aperture therein, one of said shafts and its base being mounted to move and to cause its foot to move toward and from the other, means for moving said shaft with respect to the other to grip and release opposing body tissues, means for oscillating said arm and needle held therein to cause the needle to pass through said tissues and means for retaining said movable shaft and arm in different positions in their movements.

**2,646,046**
**CIRCUMCISION CLAMP**
**Harry O. Maryan, Chicago, Ill.**
**Application January 3, 1952, Serial No. 264,701**
**2 Claims. (Cl. 128—346)**



1. A circumcision clamp embodying therein, a base member having a downwardly flared opening therein, a glans receiving cup having a flared margin at its bottom end for coacting with the wall of said opening in clamping therebetween the base of the prepuce adjacent its junction with said glans, a stem extending from the top of said cup, a yoke-like member adapted for detachable engagement with said base member when arranged perpendicularly thereto and including laterally spaced legs and a part connecting said legs at the top, coacting means providing a stud and recess interengagement between the bottom ends of said legs and said base member respectively, permitting a separation and an engagement therebetween in the direction of the axis of the stem, and a member engaged with but separable from said leg connecting part of said yoke-like member and from the top end of said stem and operative when turned in one direction to impart an upward axial lift to the stem to move the margin of said cup into prepuce clamping cooperation with said wall of said opening and to move said yoke member toward and for holding the same in operative position upon said base member.

**2,646,047**
**CIRCUMCISION INSTRUMENT**
**Harry Bronstein, Brooklyn, N. Y.**
**Application February 19, 1952, Serial No. 272,381**
**1 Claim. (Cl. 128—346)**

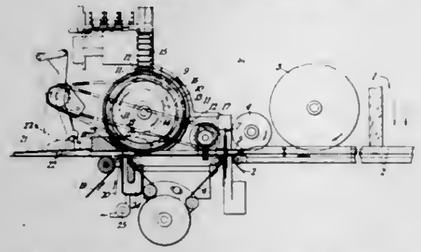


A circumcision instrument comprising a flat base member upon which the instrument may stand of itself, said base member bearing an offset portion in the front thereof, a forwardly extending horizontal member secured to said offset portion, said horizontal member being pivotally secured to said offset portion and bearing a plurality of outwardly tapering recesses, an outwardly tapering hollow clamping member adapted to fit within one of said recesses, an upper member pivotally secured to said clamping member and to said offset portion, said upper member being capable of determining the relationship between said clamping member and one of said recesses, a spring member adapted to exert outward pressure upon said base member and said upper member, and a holding member secured to said base member capable of holding

said base member and said upper member in place against the outward pressure exerted by said spring member; said holding member being capable of maintaining three different positions of said clamping member within said recess; the first position maintaining said clamping member in spaced relationship relative to one of said recesses; the second position maintaining said clamping member in abutting relationship relative to one of said recesses; and the third position compressing said clamping member against the sides of one of said recesses.

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**2,646,048**
**METHOD OF AND APPARATUS FOR MAKING MOUTHPIECE CIGARETTES**
**Desmond Walter Molins, Deptford, London, England, assignor to Molins Machine Company Limited, Deptford, London, England, a British company**
**Application September 5, 1950, Serial No. 183,143**
**In Great Britain September 23, 1949**
**9 Claims. (Cl. 131—61)**

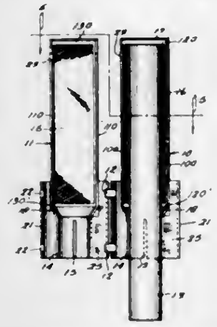


1. Apparatus for making mouthpiece cigarettes, comprising means to feed forwardly an unwrapped tobacco stream, a conveyor arranged to move faster than said stream and under the leading end portion of the stream, cutting means operable periodically to sever the stream to cut off therefrom a leading length thereof containing said end portion, accelerator means comprising a device having a surface moving in the same general direction as the said conveyor and adapted after each length is cut to press such length against the conveyor so as to cause said length to be gripped between the conveyor and the said surface, which latter moves faster than the tobacco stream, whereby the length so gripped is accelerated bodily and caused to move at the speed of the said conveyor and whereby a space is formed between the said length and the uncut stream, and means to feed a stub into each space so formed so as to form a continuous composite filler.

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**2,646,049**
**CIGARETTE PROTECTOR**
**David W. Orchard, Willoughby, Ohio**
**Application May 17, 1948, Serial No. 27,480**
**2 Claims. (Cl. 131—174)**

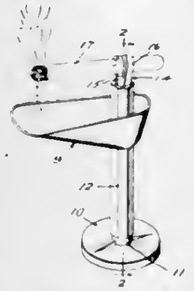
1. In a cigarette protector, a pair of sections, each of said sections including an internal sleeve portion and an external sleeve portion, the internal sleeve portions being of such size and shape as to engage a cigarette when the sleeve portions are in closed position, a pair of extensions arranged in spaced relation on each of said internal sleeve portions and connected thereto, and a perforated portion connected to each of said internal sleeve portions and to the pair of extensions connected thereto, the external sleeve portion on one of said sections being hingedly connected to the external sleeve portion of the other of said sections, and a spring fastener on one of said external sections engaging portions



of the other of said external sleeve portions for maintaining said sections in place.

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**2,646,050**
**SMOKING APPLIANCE**
**Walter L. Webster, Los Angeles, Calif.**
**Application September 7, 1949, Serial No. 114,353**
**1 Claim. (Cl. 131—174)**



In a smoker's appliance, a flat base having a stud integral with and rising from the center of said base, a tubular post vertically mounted on said stud, an elongated relatively narrow ash receptacle having a bottom opening adjacent one of its ends snugly engaged by said post, said receptacle being positioned below the top end of said post and having its bottom wall sloping upwardly from the said one end to the other of its ends to facilitate the emptying of ashes therefrom, and clamping means seated in the top end of said post to support the lit end of a cigarette above and within the confines of said receptacle.

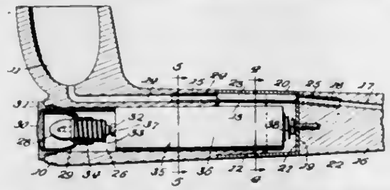
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**2,646,051**
**COMBINED SMOKING DEVICE AND FLASHLIGHT**
**George Lyeso, Wendel, W. Va.**
**Application May 28, 1951, Serial No. 228,607**
**4 Claims. (Cl. 131—178)**

1. In a smoking device of the character described an elongated stem having a smoke port adjacent the upper side which opens through its rear end, with an enlarged chamber at its lower side; a mouthpiece having a smoke port, the front end of this smoke port being within the upper portion of said mouthpiece, a ferrule secured to the front end of said mouthpiece and slidably surrounding the rear end of said stem to slide from the latter when said mouthpiece is rearwardly pulled, a rigid smoke tube secured in the upper portion of said ferrule and in



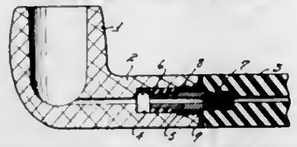
obtuse angle communication with said smoke port of said mouthpiece and acting to prevent relative rotation of the stem and mouthpiece, the front end portion only of said smoke tube being slidably received in the rear end portion of said



smoke port of said stem to withdraw therefrom when said mouthpiece and ferrule are unitarily pulled rearwardly, said smoke tube having such an angle as to allow easy passage of a pipe cleaner through said tube and said smoke ports.

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**2,646,052**
**CONNECTION FOR THE BITS OF SMOKING PIPES**
**Jerome Gevirman, Brooklyn, N. Y.**
**Application September 30, 1949, Serial No. 118,951**
**2 Claims. (Cl. 131—225)**

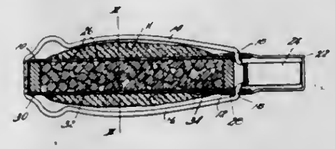


1. A smoker's pipe comprising a bowl, a bowl stem; a bit; a first cylindrical connector element comprising a threaded insertable portion terminating at a shoulder and a cylindrical portion having a smooth portion and a knurled head, said head having a diameter slightly greater than that of a chamber located in said bit whereby heating of the bit effects expansion of the chamber walls allowing insertion of the knurled head portion to effect a permanently immovable grip; a second cylindrical connector element of expandable material, having an internally threaded bore and adapted to be inserted in a chamber located in said stem and adapted to frictionally engage the wall of said stem chamber, and an externally threaded intermediate third cylindrical connector element having a smooth bore and a flange and adapted to be screwed into the bowl stem; said first connector element being inserted through the third connector element, with its smooth cylindrical portion engaging the smooth bore wall of the said third connector element and into the internally threaded bore of said second connector element; said second connector element being disposed in screw threaded relationship to the screw threads of said first connector element, said second connector element being retained within the stem by said third connector element when the bit and the first connector element are disconnected from the bowl stem, whereby a turnable tight fit between said bowl stem and bit is obtained.

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**2,646,053**
**HAIR CURLER**
**Mechell F. Harris, Kansas City, Mo.**
**Application June 14, 1948, Serial No. 32,931**
**1 Claim. (Cl. 132—41)**

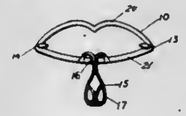
Hair curling and drying apparatus comprising a porous container, means attached to the container for securing said container to moist hair wrapped thereabout and silica gel confined within



said container and in close proximity to the hair wrapped thereabout for drying said hair.

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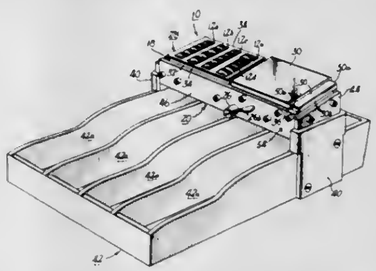
**2,646,054**
**LIP IMPRINTING DEVICE**
**Benjamin N. Greene and Sid S. Franklin, Miami Beach, Fla.**
**Application July 1, 1950, Serial No. 171,667**
**1 Claim. (Cl. 132—88.7)**



A lip outline imprinting device comprising an upper elongated member and a lower elongated member, said members being shaped to conform with the outline of a woman's upper and lower lips respectively, means connecting said upper member and said lower member at their free ends, each of said members having an inner surface and an outer surface, said inner surfaces of said members having cut out portions at the junctures of said members, centering means mounted on said cut out portions at each of said connecting means, and an arcuate handle secured to said outer surface of said lower member substantially equidistant from said centering means, said handle extending outwardly and downwardly with relation to said lower member.

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**2,646,055**
**COIN BOX LOADER**
**Hildaur L. Nellsen, Metuchen, N. J., assignor to Michael J. Feis, Metuchen, N. J.**
**Application May 27, 1950, Serial No. 164,705**
**10 Claims. (Cl. 133—8)**

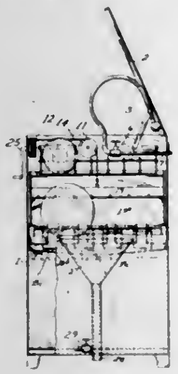


1. In apparatus of the character described, a coin box subdivided into a plurality of compartments each adapted to hold in horizontally disposed stacked relation coins of a particular denomination there being in the bottom of each compartment a number of slots which expose a predetermined number of coins, a coin counter having a chamber for holding said coin box, and a plate movably secured to said counter, said plate

having a plurality of tines corresponding in width and position to slots in said coin box when said coin box is held in said chamber, whereby exposed coins contained in said compartments may be lifted from the unexposed coins upon movement of said plate.

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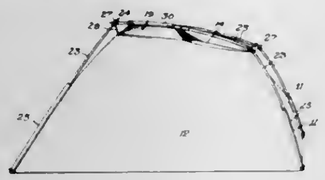
**2,646,056**
**DISHWASHING MACHINE**
**Donald W. Kerns, Johnstown, Pa.**
**Application January 21, 1947, Serial No. 723,236**
**2 Claims. (Cl. 134—144)**



1. In dish washing apparatus, the combination comprising a casing adapted to contain a quantity of liquid detergent, a support for dishes mounted for vertical movement in said casing from an upper position above the detergent to a lower position to immerse the support in the detergent, said support having a base including baffle structure operable to allow the liquid detergent to rise therethrough to submerse dishes on said support when said support is in said lower position, but effective to prevent water sprayed on said dishes when said support is in said upper position from gravitating into said detergent, and drain means for receiving liquid from said baffle structure only when said support is in said upper position.

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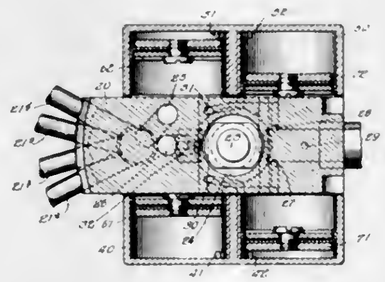
**2,646,057**
**TENT CONSTRUCTION**
**Robert L. Blanchard, New York, N. Y.**
**Application November 5, 1949, Serial No. 125,715**
**8 Claims. (Cl. 135—1)**



1. A tent body having a polygonal ground piece, side walls connected thereto and extending upward at a sharp angle, a top piece of polygonal shape and sloping slightly toward the rear and connected along its edges to the upper edges of the respective side walls, frame members of flexible material extending up from the corners of the ground piece to the corners of the top piece but out of contact therewith, frame members of flexible material extending along the side edges of the top piece but above the same, cross members extending across the front and rear edges of the top of the body but above the same, means to connect the adjacent ends of the frame members to the cross members, and means to suspend the tent body within but out of contact with the frame members and under tension.

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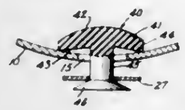
**2,646,058**
**MILKING MACHINE PULSATOR**
**Chester A. Thomas, Lake Forest, Ill., assignor to Babson Bros. Co., a corporation of Illinois**
**Application December 3, 1949, Serial No. 130,877**
**11 Claims. (Cl. 137—103)**



1. In a milking machine pulsator of the pneumatically operated type, control apparatus including: flow control means comprising a regulating member for varying the effective cross-sectional area of a restricting portion of a passageway through which operating air flows; a source of operating pressure; and an automatically movable reversing valve member connecting opposite ends of said passageway alternately to said source of operating pressure for periodically reversing the air flow through said restricting portion to minimize clogging accumulations.

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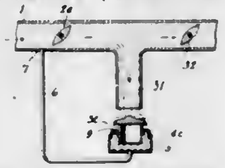
**2,646,059**
**AUTOMATIC DRAIN VALVE FOR PORTABLE IRRIGATION PIPES**
**Edward E. Wittner, San Francisco, and Roger M. Sherman, Palo Alto, Calif., assignors to W. R. Ames Company, San Francisco, Calif., a corporation of California**
**Application August 28, 1950, Serial No. 181,744**
**12 Claims. (Cl. 137—107)**



2. An automatic pipe drain including in combination a pipe having an opening through its generally cylindrical wall and a mushroom-shaped resilient valve in said opening, said valve having a cap that is wider than said opening, a generally convex upper surface, and a lower surface that diverges in toward the center from said upper surface and also from the walls of said pipe when no pressure is applied to the valve, said valve also including means projecting out through said opening and serving to prevent displacement of said valve from said opening.



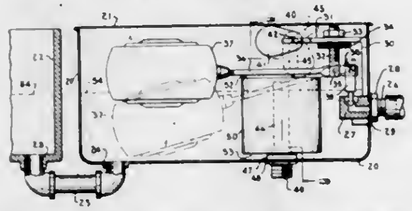
**2,646,060**
**APPARATUS FOR AUTOMATICALLY REGULATING THE FLOW OF FLUIDS**
**Yves Ponsar, Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, Grenoble, France, a corporation of the French Republic**
**Application June 2, 1947, Serial No. 751,667**
**In France June 4, 1946**
**17 Claims. (Cl. 137—117)**



1. Apparatus for regulating the flow of fluid comprising a closed conduit connected to a source of fluid and having an outlet, an obturating member located in the path of the fluid jet issuing from the outlet and movable toward and away from said outlet to vary the flow therethrough, said obturating member being subject to a biasing force acting in a flow increasing direction and to the thrust of the jet likewise acting in a flow increasing direction, a restriction in the conduit upstream from the outlet, a pressure sensitive element, means subjecting a surface of said element to a fluid under a pressure substantially equal to a pressure in the conduit upstream from said restriction, and means operatively connecting said pressure sensitive element and said obturating member and effective to transmit the force acting on said element due to said pressure to said obturating member in a flow decreasing direction.

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**2,646,061**
**FLUSH TYPE HUMIDIFIER**
**Edward W. Bottum, Detroit, Mich., assignor to Skuttle Manufacturing Company, Detroit, Mich., a corporation of Michigan**
**Application August 19, 1947, Serial No. 769,447**
**1 Claim. (Cl. 137—142)**



A liquid supply and flushing device adapted for use with a humidifier, comprising a float tank having a float control therein operatively connected with a liquid inlet control valve to maintain liquid at an operating level in said tank, means for connecting said float tank to the humidifier, and apparatus for breaking and flushing accumulated sludge and scum from said tank by raising the level of said liquid to a discharge level substantially above said operating level including means for depressing the float control member in said float tank against the buoyancy of said liquid at said operating level, and discharge means operated in response to the rising of said liquid to said discharge level for rapidly discharging said liquid and accumulated sludge and scum from said tank, said discharge means comprising a siphon operatively disposed for draining the liquid from said tank and having its highest level at said discharge level, said siphon including a siphon chamber within said tank and opening near the bottom thereof and a discharge duct having a substantially horizontal intake opening within said siphon chamber at said discharge level and having a discharge opening outside of said tank and below the opening of said siphon chamber, said siphon chamber being eccentrically and tangentially secured to a side portion of said discharge duct and the upper portion of said discharge duct being inclined away from the adjacent side of said siphon chamber so that said upper portion is spaced from said siphon chamber.

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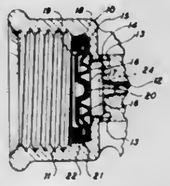
**2,646,062**
**AUTOMATIC WELL FLOW VALVE**
**Jeddy D. Nixon, New Braunfels, Tex., assignor of one-half to Wilson Supply Company, Houston, Tex., a corporation of Texas**
**Application November 8, 1948, Serial No. 58,995**
**9 Claims. (Cl. 137—155)**



1. An automatic well flow valve including, an upper support adapted to be mounted on a tubular conductor having a port, a lower support adapted to be mounted on a tubular conductor, the upper support having a valve seat and a flow passage from said seat adapted to be connected to the conductor port, a pedestal carried by the lower support, a perforated cage mounted on the pedestal engaging the upper support, a movable weight bar in said pedestal, and a valve on the upper end of the bar adapted to engage the seat.

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**2,646,063**
**BACK FLOW PREVENTER**
**Stanley A. Hayes, Pasadena, Calif.**
**Application November 15, 1949, Serial No. 127,463**
**5 Claims. (Cl. 137—218)**

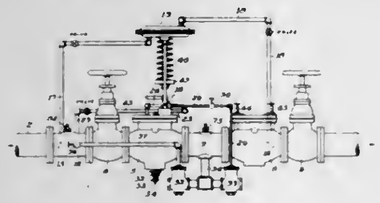


1. In a device for preventing back flow of liquid, the combination which comprises a conduit for liquid having an inlet portion and an outlet portion, a vent in the conduit between the por-

tions, a resilient diaphragm disposed across the conduit in the inlet portion adjacent the vent and having an open ended tubular neck extending toward the outlet portion remote from the outside edge of the diaphragm and located in the inlet portion when the diaphragm is undistended but movable into the outlet portion to seat therein when the diaphragm is distended by the pressure of liquid in the inlet portion, a backing disposed across the inlet portion immediately behind the diaphragm and having an unperforated portion adjacent the tubular neck which includes a projection extending toward the outlet conduit and inside the neck when the diaphragm is undistended and against which the diaphragm seals when it is undistended but provided with a passage for liquid in another region.

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**2,646,064**
**VALVE APPARATUS**
**Grant A. Colton, Gibsonia, Pa., assignor to Donald G. Griswold, Alhambra, Calif.**
**Application December 29, 1944, Serial No. 570,235**
**3 Claims. (Cl. 137—218)**

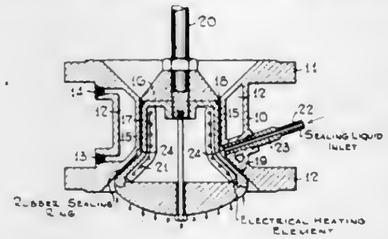


1. Valve apparatus for protecting the fluid in one of two interconnected conduits from contamination by the fluid in the other conduit, comprising a valve assembly having two valves arranged in sequence in the line of flow from one conduit to the other, means comprising a pilot valve and a pilot-valve-operating device responsive to a backflow-inducing difference in pressures between the upstream and downstream sides of the valve assembly for automatically closing one of said valves when conditions promotive of contamination occur, means for automatically closing the other of said valves in response to fluid pressure conditions created by the closing of the first valve, and means including a gravity drain and a drain valve subject to said pilot valve for establishing a vented region in the line of flow between the valves.

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**2,646,065**
**VALVE**
**Charles W. Tyson, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application December 1, 1950, Serial No. 198,573**
**9 Claims. (Cl. 137—246)**

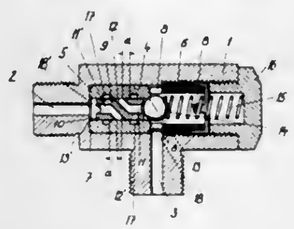
1. A valve for maintaining finely divided solid particles in a zone at substantially elevated pressures comprising a hollow outer body portion, a plug member mounted for movement into an open position for free passage of finely divided solids therethrough and into a closed position with the outer walls of said plug member in close proximity to the inner wall of said body member but insufficient to withstand any substantial amount of pressure, means for introducing a sealant in liquid condition into a groove between the plug member and the body portion in closed condition, a refrigeration jacket arranged around the inner wall of said body portion and adapted for the circulation of refrigerant therethrough for cooling the valve assembly to a temperature




sufficiently low to solidify said sealant to form a pressure-tight seal and means for heating the valve assembly to a sufficient temperature to melt the sealant and thereby facilitate the opening of the valve.

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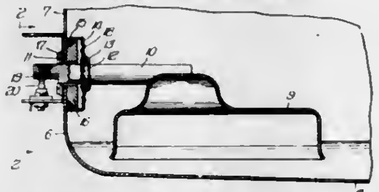
**2,646,066**
**ONE-WAY VALVE, PARTICULARLY FOR LUBRICATING SYSTEMS**
**Gustav Nemetz, deceased, late of Vienna, Austria, by Valerie Nemetz, administratrix, Vienna, Austria, assignor to Alex. Friedmann, Kommandit-Gesellschaft, Vienna, Austria**
**Application July 29, 1947, Serial No. 764,526**
**In Germany April 24, 1944**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires April 24, 1964**
**7 Claims. (Cl. 137—329)**



1. A check valve comprising a housing having an inlet and an outlet, said housing having a passage formed therein, intermediate said inlet and outlet, a bushing in said passage, a valve seat formed in said bushing towards said outlet, a valve member resiliently held against said seat, a piston slidably disposed for actuation by fluid pressure from asid inlet and said outlet in said passage intermediate said inlet and said valve member substantially adjacent said member, a fluid flow path from said inlet to said seat through said passage controlled by said piston, said fluid flow path being formed in part by said bushing, and said piston comprising a passage means forming portions of said flow path, said fluid flow path portions in said piston comprising a passage each therein respectively extending from a first point of the lateral wall surface thereof to its inlet end and from a second point of the lateral wall surface diametrically opposite to the first point to its outlet end, and wherein said part of said fluid flow path in said bushing comprises an annular groove in said bushing forming a connection between said passages and said piston upon the piston being displaced toward the outlet.



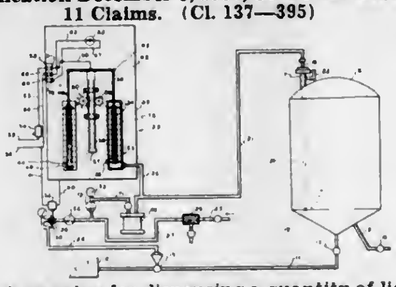
**2,646,067**
**CONTROL MECHANISM**
**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**
**Original application December 20, 1948, Serial No. 66,229. Divided and this application October 11, 1950, Serial No. 189,618**
**1 Claim. (Cl. 137—387)**



In combination, a fluid container having a wall provided with an aperture therethrough, switch operating means including an actuator arm extending through said aperture into the interior of said container adapted to operate an electric switch disposed exteriorly of said container, said actuator arm adjacent the interior of said wall being provided with an annular groove, means for actuating said arm in accordance with the quantity of fluid within said container, a cup shaped diaphragm sealing member having a central portion and a marginal rim portion adapted to provide a fluid-tight joint between said container wall and said actuator arm, said rim portion adjacent the edge thereof being provided with an enlarged annular ring portion, and a clamping member secured to said wall within said sealing member and being provided with an annular recess adapted to embrace said ring portion to provide a seal; said central portion of said sealing member having an opening defined by an enlarged annular ring portion adapted to engage in the annular groove of said actuator arm to provide a seal and to provide a fulcrum for said actuator arm for movement thereof in accordance with the quantity of fluid within said container.

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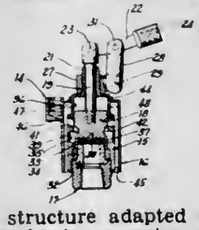
**2,646,068**
**APPARATUS FOR DISPENSING MEASURED VOLUMES OF LIQUID**
**Joseph George Gullas, Weirton, W. Va., assignor to National Steel Corporation, a corporation of Delaware**
**Application December 6, 1950, Serial No. 199,521**
**11 Claims. (Cl. 137—395)**



1. Apparatus for dispensing a quantity of liquid comprising, in combination, tank means adapted to contain a body of liquid, outlet means for discharging liquid from the tank means whereby the depth of liquid in the tank means is reduced, valve means for controlling the flow of liquid through the outlet means, closed conduit means terminating in an opening in the lower portion of the tank means so that the pressure in the closed conduit means is proportional to the depth of liquid in the tank means, and control means including means responsive to the pressure in the closed conduit means, manually adjustable means movable to any one of a plurality of positions each corresponding to a certain depth of liquid in the tank means, and means for effecting the opening and closing of the valve means, said last-mentioned means being connected to the manually adjustable means and to the pressure responsive means to effect opening of the valve means upon movement of the manually adjustable means to a position corresponding to a depth of liquid less than is in the tank means and to effect closing of the valve means when the depth of liquid in the tank means falls to a level corresponding to the position of the manually adjustable means.

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**2,646,069**
**FLUSH TANK VALVE**
**Conrad John Dorff, Chicago, Ill., assignor to C. J. Dorff Manufacturing Co., Chicago, Ill., a corporation of Illinois**
**Application November 26, 1948, Serial No. 62,161**
**3 Claims. (Cl. 137—437)**



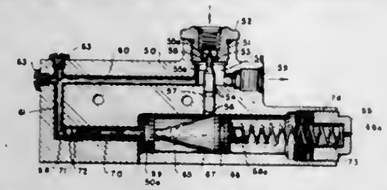
1. A valve structure adapted to be mounted in a container having a water supply pipe extending upwardly into the interior thereof, comprising an inner casing connectable at its lower end to said supply pipe and having outlet means intermediate its ends, valve means disposed interiorly of said casing to control the flow of water from said pipe to said outlet means, said inner casing having a portion of its outer surface defined by a plurality of vertically extending intersecting walls and said outlet means comprising a separate aperture extending through each of said walls and an outer casing surrounding and supported at its upper end by said inner casing and having a bore slidably engaging the vertical intersecting edges of said walls to define a separate outlet passage communicating with each of said apertures and open at its lower end to provide means for directing the flow of water from said outlet means down the exterior of said pipe.

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**2,646,070**
**HYDRAULIC FLOW REGULATOR**
**Herman Holland, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, a corporation of Delaware**
**Application June 25, 1947, Serial No. 757,022**
**5 Claims. (Cl. 137—509)**

1. A flow regulator valve comprising a valve body having inlet and outlet connections, a fluid passage extending between said inlet and outlet connections, a cylindrical bore within said valve body having one end of said bore in communication with said fluid passage, a spring-opposed conic camming piston axially movable within said cylindrical bore in response to fluid pressures developed in the region of said outlet connection and transmitted through said fluid pas-

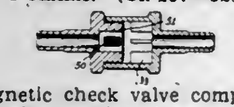
sage to said open end of said cylindrical bore, non-closable metering valve means including an axially floating element operatively disposed within said fluid passage on the inlet connection side of said fluid passage, said valve means having an opposite terminal in sliding contact with said camming piston, said valve means movable in response to movement of said camming piston whereby increased pressure in the



region of said outlet connection initiates movement of said camming piston and further opening of said metering valve means for the increased flow through said fluid passage, said camming piston and said metering valve means each provided with fluid seals against said valve body whereby said camming piston does not work within the same system fluid being regulated by said valve.

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**2,646,071**
**MAGNETIC CHECK VALVE**
**William Wagner, New York, N. Y.**
**Application December 29, 1948, Serial No. 67,817**
**4 Claims. (Cl. 137—528)**

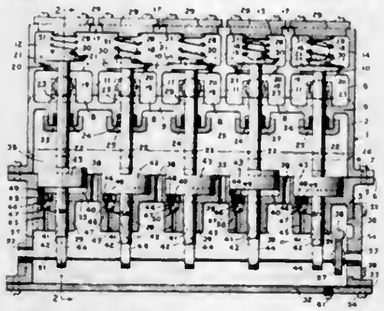


1. A magnetic check valve comprising a pair of valve housing members in screw threaded engagement with each other and forming a valve chamber therebetween, an inlet port formed in one of said housing members and communicating with said valve chamber to permit a flow of fluid through said inlet port and into said valve chamber, an outlet port formed in the other housing member and also communicating with said valve chamber to permit a flow of fluid out of said valve chamber through said outlet port, a magnet fixedly mounted in said inlet port, the cross-sectional area of said magnet being smaller than the cross-sectional area of the inlet port to provide a passageway through said inlet port and into said valve chamber, past said magnet, a non-magnetic valve seat formed on the housing member in which the inlet port is formed, said valve seat being ring-shaped and encircling said inlet port, and a disc-shaped, magnetically responsive valve member movably mounted in said valve chamber for movement into engagement with the valve seat in response to the attraction of said magnet thereon to close the inlet port, and for movement out of engagement with the valve seat, under the influence of a flow of fluid from the inlet port and against the attraction of the magnet, to open said inlet port.

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**2,646,072**
**SELECTOR VALVE FOR WATER TREATING APPARATUS**
**Joseph F. Sebald, Bloomfield, N. J., assignor to Worthington Corporation, Harrison, N. J., a corporation of Delaware**
**Application April 20, 1950, Serial No. 156,998**
**4 Claims. (Cl. 137—595)**

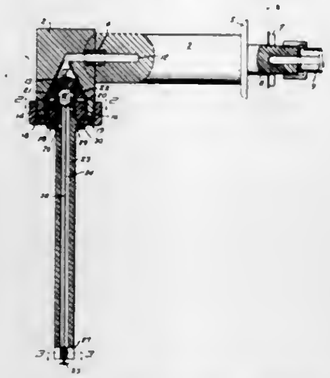
1. In a multi-port selector valve for water treating systems, a housing, a plurality of outlet chambers in said housing, inlet chambers in said housing, a plurality of valves between said inlet and said outlet chambers including, valve ports between said chambers, valve heads for opening and closing said valve ports, and valve stems connected to said valve heads, resilient spring members for normally maintaining said valves in a closed position, a cam shaft rotatably mounted in said housing and provided with angularly disposed cams fixedly mounted thereon in the axial line of each of said valve stems, a support member in said housing intermediate the ends of said valve stems and said cam shaft and having dash



pot chambers thereon disposed in the axial line of said valve stems, a fluid reservoir formed in said housing to coact with said dashpot chambers, an actuating member for each of said valves slidably mounted in said dashpot chamber and adapted to open predetermined valves when operated by said cam, inlet valves in each of said dash pot chambers to allow fluid from said reservoir to flow therein on movement of the member therein, and said actuating members and said dash pot chambers so constructed and arranged that the rate of return flow of fluid from said dash pot controls the speed of closing of said valves.

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**2,646,073**
**FAUCET FOR GAS-CHARGED LIQUIDS**
**Joseph Schor, San Francisco, Calif.**
**Application January 28, 1950, Serial No. 140,987**
**3 Claims. (Cl. 137—614.17)**



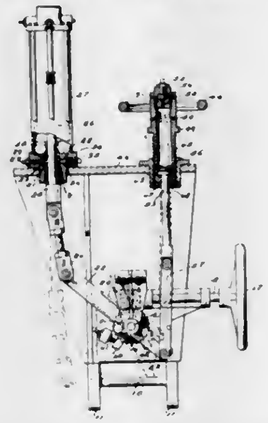
1. A faucet for gas-charged liquids, comprising a head having a passage therethrough including a conical chamber, a conical plug disposed in the chamber, means for varying the spacing of the plug from the wall of the chamber to vary the flow of liquid therearound in the head passage, a tube extending from the head and having



a passage therethrough in continuation of the head passage, a valve controlling the tube passage and normally closed by pressure of liquid in the head passage, and means for lifting the valve.

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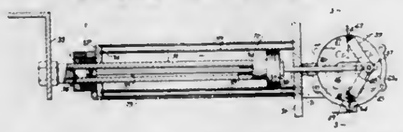
**2,646,074**
**VARIABLE STROKE CUSHIONED VALVE**
**David Walter Hopkins, Philadelphia, Pa., assignor to R-S Products Corporation, Philadelphia, Pa., a corporation of Pennsylvania**
**Application July 28, 1948, Serial No. 41,028**
**3 Claims. (Cl. 137—682)**



2. Valve operating structure for variable stroke butterfly valves, comprising in combination with a housing, an element pivoted in the housing and movable between limits, a power piston and cylinder having a maximum power stroke in both directions, linkage connecting the piston to the said element for moving the element through a maximum motion between said limits, means for first cushioning and then positively stopping both ends of the maximum power stroke to minimize shocks and impacts between the element and the housing, means for varying the length of the power strokes of said piston while maintaining the cushioning at both ends of its said stroke comprising an independent auxiliary cushioning device operable synchronously with said linkage, and means for adjusting the effective point of operation of said auxiliary device relative to the fixed stroke of said power piston to first cushion and then positively stop said element at a limit predeterminedly spaced from a limit determined by said maximum power stroke.

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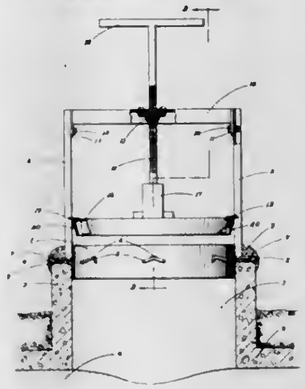
**2,646,075**
**FLUID ACTUATED SNAP-ACTING GATE VALVE**
**James E. Elkington, San Francisco, Calif.**
**Application December 27, 1948, Serial No. 67,287**
**6 Claims. (Cl. 137—701)**



4. A valve structure comprising a valve chamber, a valve slidable therein and having a longitudinal slot formed therein, a reciprocable member, a pin supported by said member and slidably received at one end in said slot, and abutment means mounted on said pin externally of said slot operable to balance the forces acting on said pin on reaching either end of said slot.

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**2,646,076**
**IRRIGATION VALVE**
**Harold Emory Bonander and Pete A. Backman, Turlock, Calif.**
**Application March 10, 1952, Serial No. 275,814**
**4 Claims. (Cl. 137—737)**



1. An irrigation valve comprising an annular metallic band of substantial width and disposed with its axis vertical, a circular valve disposed above and mounted in connection with the band for cooperation therewith, and a plurality of circumferentially spaced anchor elements projecting from the band a distance above its lower edge whereby the lower portion of the band is adapted to depend into a standpipe with said elements resting on the upper end of the latter; said anchor elements comprising outwardly and downwardly inclined, rod-like elements whereby their outer tips only engage the upper end of the standpipe.

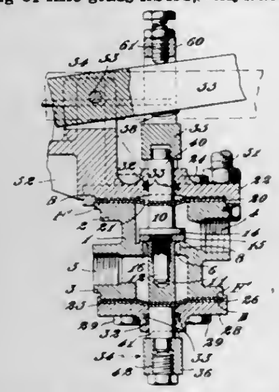
4. An irrigation valve including, with a circular band forming a valve seat, a valve to engage the seat comprising a top disc, a depending downwardly tapered flange secured on and about the disc for engagement in the band, a central screw engaging and retaining means on the disc, and a diametral upwardly projecting truss-like strap brace secured on the disc and including vertical members on opposite sides of said screw retaining means and secured to the disc, the brace being orificed between the members to receive the screw therethrough.

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**2,646,077**
**MULTILAYER DIAPHRAGM**
**William E. Whitney, Belmont, Mass., assignor, by mesne assignments, to Stator Company, a corporation of Massachusetts**
**Application February 15, 1950, Serial No. 144,261**
**9 Claims. (Cl. 137—791)**

1. In a valve of the type having a casing formed with an opening to accommodate a valve actuating means and annular clamping means surrounding said opening, a pressure-proof diaphragm closing said opening, said pressure-proof diaphragm comprising a facing which consists essentially of a plurality of superposed, unbonded, imperforate sheets each having a thickness between approximately 0.001" and 0.0005" and

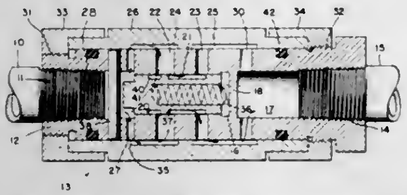
composed of a vinylidene chloride-vinyl chloride copolymer, and a backing consisting essentially of a plurality of unbonded sheets of a woven fabric each having a thickness between approximately 0.01'' and 0.03'' and composed of strands of thermoplastic filaments selected from the group consisting of fine glass fibers, vinylidene chloride-



vinyl chloride copolymer fibers, and fibers produced from a long-chain synthetic polymeric amide having recurring amide groups as an integral part of the main polymer chain, the facing and backing sheets being secured together in fluid tight relation at their peripheries by said annular clamping means with the innermost facing sheet exposed to the interior of said casing.

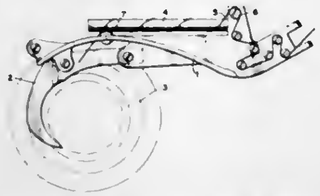
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**2,646,078**
**FLOW CONTROL VALVE**
**Cecil E. Adams, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio**
**Application September 18, 1947, Serial No. 774,837**
**10 Claims. (Cl. 138—43)**



10. A flow control device comprising a body element having an internal chamber; a spool element disposed for movement in said chamber; a housing element surrounding said body, said body having an inlet and an outlet, said body, spool and housing elements having comunicating ports and grooves formed therein to provide a passage connecting said inlet and outlet; said housing partially obstructing one of the ports to cause a pressure differential at opposite sides of said obstruction, one end of said spool being exposed to the higher pressure of said differential; resilient means tending to move said spool in opposition to the pressure applied to said one end; passage means provided in one of said elements to apply the lower pressure of said pressure differential to the end of said spool opposite said one end; and shoulder means on one of said elements, said shoulder means being operative upon movement of said spool in opposition to said resilient means to vary the flow-conducting capacity of said passage.

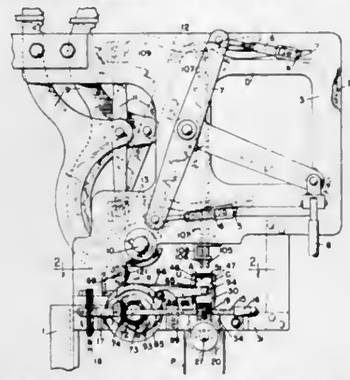
**2,646,079**
**TENSION CONTROL DEVICE FOR LOOMS OR THE LIKE**
**Christian Christiansen, Oslo, and Gustav Otto Karl Rüsch, Mandal, Norway**
**Application November 29, 1948, Serial No. 62,514**
**In Norway October 18, 1947**
**3 Claims. (Cl. 139—13)**



1. A circular loom comprising a weaving ring at the upper edge of which the weaving is effected, a sector mounted on a sector carrier for rotation above the upper edge of the weaving ring for pressing the weft thread in between the warp threads, at least one guiding pin for the weft thread mounted on the sector carrier and a device for controlling the tension of the weft thread, characterized in that the said tension controlling device comprises a cylindrical rod secured to the outside of the said sector carrier in the main parallel with the same and so situated relatively to the said guiding pin that the weft thread passes directly from the said guiding pin to the said rod, and guiding means leading the thread from the said rod, said guiding means being arranged at some distance from the point in which the thread is led to the said rod, the sector carrier having an aperture through which the thread is passed to the weaving point.

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**2,646,080**
**PAPER INDICATED DOBBY**
**Clarence R. Kronoff, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application May 21, 1952, Serial No. 289,070**
**21 Claims. (Cl. 139—68)**

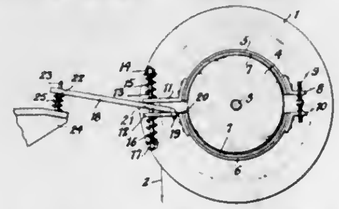


.1. In a loom dobby having a set of harness lifter hooks normally in the path of a reciprocating lifter knife, a paper pattern below the hooks having perforated and unperforated indicating parts, combined pattern reading and hook lifting elements which first have a movement toward the pattern to perform a pattern reading operation and then have a second movement away from the pattern toward the hooks, the elements registering with unperforated parts of the pattern being above the elements registering with perforated parts of the pattern upon completion of the pattern reading operation, and mechanism to lock the elements with respect to each other on completion of the first movement thereof, the elements which are above the other elements being effective to move the hooks in register therewith out of the path of the knife when said elements have said second movement thereof.



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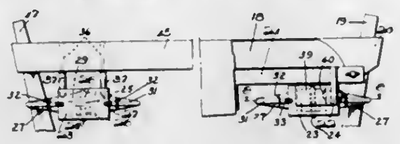
**2,646,081**
**WARP TENSION LET-OFF DEVICE FOR LOOMS**
**Louis Ritsky, Philadelphia, Pa.**
**Application April 22, 1952, Serial No. 283,563**
**6 Claims. (Cl. 139—100)**



1. In a loom, a rotative warp beam, a drum carried thereby, a plurality of brake band segments overlying the drum, the segments being adjustably connected at one end, the opposite end of each segment being provided with a lug, spring means for urging the lugs toward one another, a lever interposed between the lugs and connected to one of said lugs, and a stop element for the lever adapted to incline the lever when the warp beam is under pull of the warp threads to thereby cause the lever to pry the lugs apart to release pressure of the brake band segments on the drum.

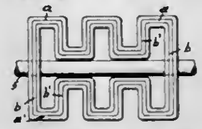
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**2,646,082**
**CHECK FOR PICKER STICKS**
**Clarence W. Franklin, Clarkesville, and Jesse T. Colvard, Mount Airy, Ga.**
**Application April 15, 1952, Serial No. 282,432**
**6 Claims. (Cl. 139—164)**



1. In a picker stick check, a unit to be secured to the lay and comprising a supporting channel arranged horizontally beneath the lay and provided in its top with transverse slots, the slots receiving bolts which connect the unit with the lay so that the unit may be adjusted bodily transversely of the lay, a pair of leaves extending generally longitudinally of the channel and having their inner ends pivotally secured to the channel near its longitudinal center so that the leaves are horizontally swingable toward and from the channel, the leaves being arranged at angles to the channel and extending beyond the inner side of the channel for frictional engagement with the picker stick, and adjustable resilient means connected with the leaves and channel and serving to urge the leaves into frictional engagement with the picker stick.

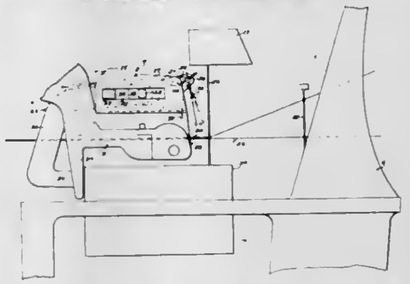
**2,646,083**
**SHOCK-DAMPING BUFFER**
**Ernst Arthur Sahli, Zurich, Switzerland, assignor to Bearn S.-A., Tangier, Morocco, a firm**
**Application May 5, 1950, Serial No. 160,200**
**In Switzerland June 16, 1949**
**4 Claims. (Cl. 139—166)**



1. A shock-damping buffer comprising at least two layers of material glued together including at least two springy legs arranged transversely to the direction of shock and positioned in spaced relation to each other, a member continuous with the legs for connecting the same together, the member connecting the two legs to each other constituting a bridge arranged normally completely parallel to the direction of the shock, and all of said layers of material in the bridge being arranged parallel with each other.

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**2,646,084**
**SELF-SELVAGER FOR LOOMS**
**Berl M. Harris, Talbotton, Ga.**
**Application April 18, 1952, Serial No. 283,028**
**8 Claims. (Cl. 139—195)**



1. In combination with a loom having a side provided with a lay beam and temple, a self-selvager attachment supported by said temple, said self-selvager attachment including an elongated channel shaped housing having a bottom detachably mounted on and secured to the temple and extending longitudinally of the loom, an actuator having a head at one end slidably connected to the housing for sliding movement longitudinally therein, said actuator having a lay beam engaging portion disposed beneath the temple in the path of forward movement of the lay beam, an elongated needle carrier having one end pivotally connected to an end of the actuator head for vertical swinging movement in the housing and projecting therefrom outwardly of an end of said housing, a selvage loop engaging needle, means supporting the selvage loop engaging needle on the other end of the carrier and beyond said end of the housing, cam means associated with the carrier and housing for rocking the carrier upwardly to elevate the needle as the carrier is moved inwardly of the housing, said lay beam engaging portion of the actuator being struck by the lay beam as the lay beam travels in one direction for displacing the carrier inwardly of the housing for elevating the needle, and spring means connected to the housing and actuator for moving the actuator and carrier in the opposite direction to displace the carrier out-

wardly of said housing end and to return the needle to an operative position adjacent a selvage edge of the fabric being woven by the loom whereby the needle will be engaged by a selvage loop formed by the loom shuttle.

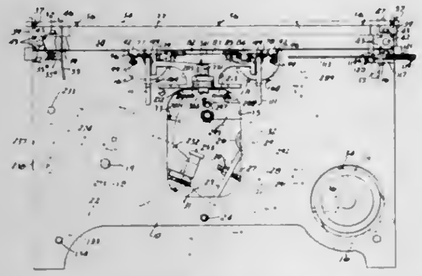
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**2,646,085**

## MACHINE FOR FORMING WIRE GARMENT HANGERS

**Oliver R. Brekle, Birmingham, Ala., assignor to M and B Metal Products Company, Birmingham, Ala., a partnership composed of Milton M. Magnus and Oliver R. Brekle**

**Application February 16, 1948, Serial No. 8,635**
**6 Claims. (Cl. 140—81.5)**



1. The combination with means to feed wire coat hanger blanks one at a time into position over laterally spaced stationary supporting devices, with the ends of the blank overhanging the supporting devices of a pair of pivotally mounted arms having free ends movable in arcuate paths about the supporting devices, a pin in the free end of each arm engageable above the overhanging ends of the blank to bend the same downwardly about the supporting devices, means for effecting simultaneous movement of the arms and pins comprising a sprocket operatively connected to each arm and rotatable therewith, a sprocket chain passing under and over one of said sprockets thence under and over the other sprocket, an idler sprocket over which the chain passes from the last named sprocket, a floating sheave under which the chain next passes from said idler sprocket, means anchoring the end of the chain after passing under the sheave, a tension spring connected at one end to the sheave and anchored at its other end, and a pull rod connected to the opposite end of the chain.

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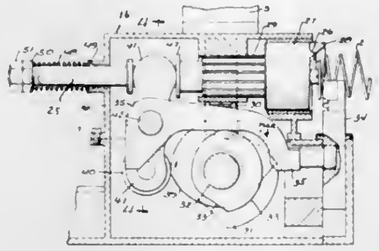
**2,646,086**

## MACHINE FOR CRIMPING THE BOTTOM COILS OF COIL SPRINGS

**Charles C. Smith, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan**

**Application October 31, 1950, Serial No. 193,225**
**10 Claims. (Cl. 140—105)**

1. A machine for putting a crimp in the end coil of a coil spring, having in combination a housing, a cam shaft supported to turn therein, a sliding and turning shaft supported therein and having at one end a head provided with a locator projecting therefrom and serving, when the head is turned, to bear against the end of the spring and rotate the spring on its longitudinal axis to the proper crimping position, a punch on said head, a die which slides up and down, transverse the path of travel of the punch, in the housing to, in its lower position, clear the coil spring that is drawn into position for the crimping operation, means for picking up the coil spring and passing it over the lowered die into position for the crimping operation and to be rotated by the projecting locator, means for holding the spring in said position, and means including cams on the



cam shaft and connecting elements for raising the die to engage the coil spring, turning the shaft and head part of a turn to orient the coil spring, and for sliding the shaft and head for bringing the punch and die onto the wire to put a crimp in the end coil.

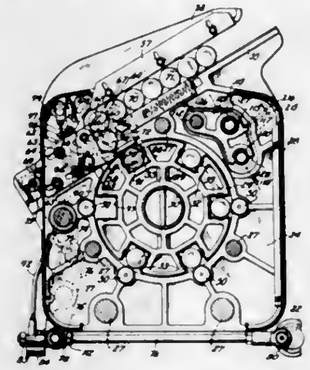
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**2,646,087**

## MAGAZINE STOCK REEL

**Arthur H. Jobert, New Britain, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut**

**Application October 1, 1949, Serial No. 119,072**
**27 Claims. (Cl. 140—126.1)**



1. In a stock-feeding mechanism of the character indicated, means for supporting a bar of stock in alignment with a spindle into which the bar is to be fed, pusher means including a double-acting hydraulic cylinder having a feed end and a drawback end, reversing-valve means for connecting said feed end with a source of fluid pressure for a feeding stroke and for connecting said drawback end to the source of fluid pressure for a drawback stroke, and pressure-responsive means connected to said feed end and responsive to a rise in feed pressure above a given value for reversing the position of said valve, whereby upon encountering an abnormal resistance during a feeding stroke, said pusher means may be automatically retracted, and manually operable means for said reversing-valve means and connected to permit a manually selected reapplication of fluid pressure to the feed end of said cylinder at any time during the drawback stroke of said cylinder.

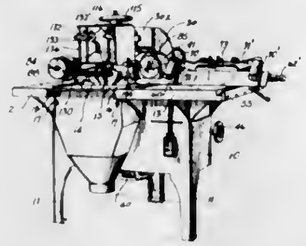


**2,646,088**

## FEED ROLL MECHANISM FOR SAWS

**Orson P. Smith, Seattle, Wash., assignor, by mesne assignments, to Smithway Machine Co., Inc., Seattle, Wash., a corporation of Washington**

**Application September 16, 1949, Serial No. 115,969**
**2 Claims. (Cl. 143—55)**



1. A ripping machine including a horizontally extending bed across which material is advanced for ripping, a vertically disposed saw operable through the bed for the ripping of material advanced thereacross, a fixedly mounted rigid frame arm extending transversely of the bed from the rear side thereof and overhanging the bed, said frame arm having an opening extending transversely through the same from side to side, a vertical guide rail on one side wall of said opening, a material feed mechanism comprising a pair of arms each pivotally mounted in said frame arm to swing vertically above the bed, said arms extending in opposite directions from the pivotal mounting thereof parallel with the plane of the saw and to opposite sides of the saw, arbors mounted in the outer end portions of the arms parallel with the saw axis, feed rolls mounted on said arbors, respectively, to engage material as advanced to the saw and beyond it, means for driving the arbors to drive said feed rolls, a horizontal across arm extending transversely of said frame arm through the opening therein to opposite sides of the same over said feed roll mounting arms, said cross arm having a part at one side thereof slidably engaging said guide rail and cooperating therewith to support the cross arm for vertical adjustment of the same, bolts connecting the roll supporting arms with the outer end portions of said cross arm, the bolts at the lower ends of the same being pivoted to the feed roll supporting arms, and the upper end portions of the bolts being adjustably fixed to opposite end portions of said cross arm, coil springs on said bolts between the end portions of the cross arm and the feed roll supporting arms to yieldably resist lifting of the feed rolls, and means on the frame arm connected with said cross arm intermediate the ends thereof for effecting vertical adjustment of the cross arm to determine the spacing of the feed rolls from the bed in accordance with the thickness of the material being ripped.

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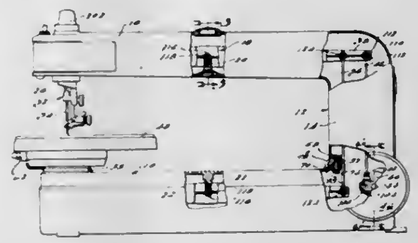
**2,646,089**

## JIG SAW

**Walter L. Gaskell, Ypsilanti, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich.**

**Application April 30, 1947, Serial No. 744,950**
**3 Claims. (Cl. 143—70)**

1. In a jig saw having a frame, upper and lower walking beams generally horizontal and parallel to each other, rubber fulcrums securing intermediate points on the walking beams to the support so that distortion of the fulcrums permits rocking of the beams, a generally vertical link extending between the rear ends of the beams, rubber bodies flexibly securing the ends of the link to



the beams, pull rods for the front ends of the beams, rubber bodies flexibly securing the pull rods to the beams, and means for rocking the beams on the fulcrums.

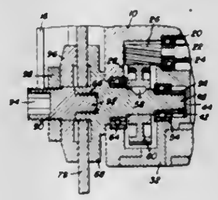
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**2,646,090**

## TWO-WAY JACK SHAFT ASSEMBLY WITH DADO ADAPTER FOR PORTABLE ELECTRIC SAWS

**Theodore W. Kluck, Houston, Tex.**

**Application September 14, 1950, Serial No. 184,885**
**2 Claims. (Cl. 143—155)**



1. In a portable electric hand tool having a casing with an electric motor and a jack shaft assembly mounted in the casing and operatively connected to said electric motor, said assembly including a jack shaft internally threaded at its outer end, and a hood on the casing overlying the outer end of the jack shaft, the improvement comprising a dado mounting including a bolt having a threaded reduced end to be secured in the outer end of the jack shaft, the outer end of said bolt being threaded, an annular retaining flange slidable upon said bolt to releasably clamp a dado blade, and a lock nut on the threaded outer end of the bolt to secure the flange and blade in place.

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**2,646,091**

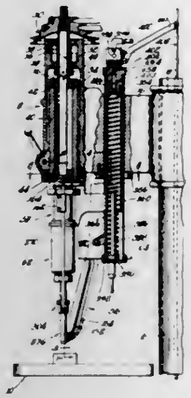
## POWER SCREW DRIVER

**Leonard E. Austin, Santa Monica, Calif., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois**

**Application December 14, 1948, Serial No. 65,277**
**22 Claims. (Cl. 144—32)**

12. A screw carrier comprising a sleeve having diametrically opposite slots extending from one end thereof partially the length of the sleeve, the opposed arms formed by the slots having inwardly bent end portions forming shelves to support the head of a screw in the catcher, said arms having confronting recesses communicating with one of the slots and adjacent said shelves

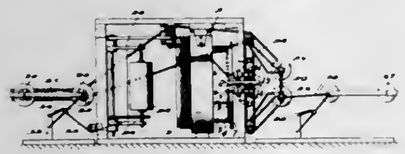
to permit the feeding of a screw transversely of the axis of the sleeve onto said shelves, and said



arms being resilient and normally set away from one another.

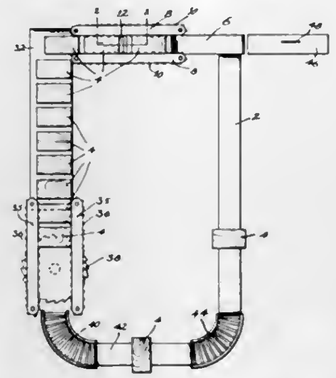
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**2,646,092**
**LOG DEBARKING MACHINE HAVING WHIRLING AND ROTATING BARK-REMOVING TOOLS**
**Olof R. Kolpe, Kil, and Oscar B. Andersson, Forshaga, Sweden**
**Application August 29, 1949, Serial No. 112,868**
**In Sweden August 30, 1948**
**3 Claims. (Cl. 144—208)**



1. A debarking machine including a frame, an annular bearing fixedly supported by said frame, a drum rotatably mounted within said bearing, means for rotating said drum, a plurality of shafts rotatably mounted on the inner periphery of said drum in circumferentially substantially equi-spaced relationship with their axes parallel with the drum axis, an internal spur gear provided on said bearing, a pinion on each shaft in mesh with said gear, an arm swingably mounted at one end on each shaft, resilient means urging the arm toward the drum axis, additional and shorter shafts respectively journalled in the free ends of each arm with their axes parallel with the drum axis, at least one debarking tool carried by each additional shaft and means transmitting rotation between the respective first mentioned and additional shafts associated with each arm, and said arms being wing shaped in plan and including a log contacting edge extending obliquely from a point adjacent the drum axis toward the periphery of the drum and toward an oncoming log whereby a fed log abuts said edges of the arms to swing the same away from the drum axis to automatically position the tool in proper operating relationship regardless of the diameter of the fed log.

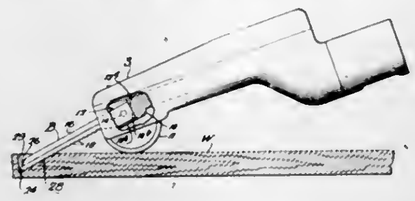
**2,646,093**
**METHOD OF FORMING IMITATION HAND RIFT SHINGLES**
**Lee B. Dennison, Fernwood, Idaho**
**Application October 14, 1948, Serial No. 54,401**
**2 Claims. (Cl. 144—309)**



1. The process of forming imitation hand rift shingles comprising forming a block of wood having flat upper and lower faces and side faces, forming in one face of the block a multiplicity of grooves extending longitudinally of the block in side by side relation to each other, and then cutting the block for its full length and width in predetermined spaced relation to its grooved face and thereby removing from the block a strip constituting shingle having a grooved surface.

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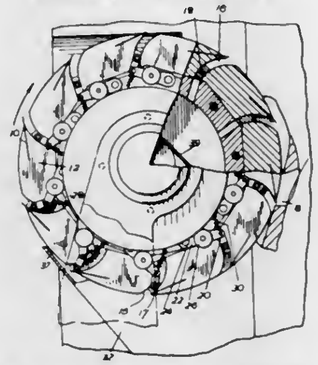
**2,646,094**
**RECIPROCATING SAW BLADE WITH PIERCING MEANS**
**Francis S. Russell, Joliet, Ill., assignor to RCS Engineering Corporation**
**Application October 6, 1949, Serial No. 119,943**
**2 Claims. (Cl. 145—130)**



1. A saw blade comprising an elongate shaft having a bottom edge and a top edge and side walls spaced to provide a thickness of greater dimension at the bottom than at the top, means at one end for attachment of the shaft to a driving member for reciprocating the shaft longitudinally, longitudinally spaced cutting teeth in the bottom edge of the shaft forwardly of the attachment means, and a front wall tapering downwardly and forwardly from the top edge and merging with the bottom edge at the foremost portion of the shaft and in alignment with the bottom edge portion and tapering forwardly from the side walls to a line intermediate the walls in the downwardly tapering portion to form a frontal cutting edge for removal of material during reciprocation.



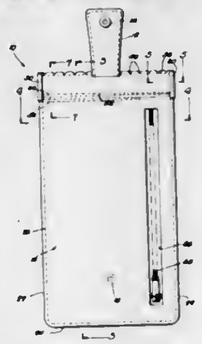
**2,646,095**
**MACHINE FOR CUTTING TOBACCO AND THE LIKE**
**Patrick Quintin Robert Schreiber, London, England, assignor to Robert Legg Limited, London, England, a British company**
**Application March 22, 1950, Serial No. 151,071**
**In Great Britain March 24, 1949**
**8 Claims. (Cl. 146—119)**



1. In a tobacco cutting machine, in combination, a mouthpiece, means for feeding tobacco to said mouthpiece to protrude therefrom, hollow rotary cutting means adapted to cut said protruding tobacco into successive slices, walls in said cutting means defining a pocket adapted to receive a cut slice and communicating with the hollow interior of said cutting means, mechanical means including a member movable toward the mouth of said pocket to eject said cut slice when said pocket is clear of said mouthpiece, said member being of less width than said pocket and also movable freely transversely in said pocket to scrape against one wall thereof and leave a clearance from the opposite wall thereof, and means for applying suction to said mouth during movement of said member toward said mouth to cause air to flow through said clearance to assist ejection of said cut slice.

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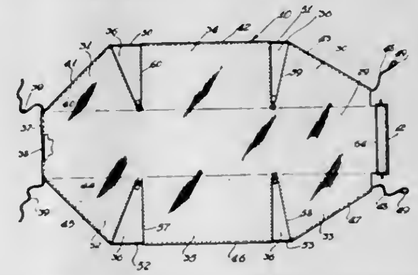
**2,646,096**
**COMBINED WALLET AND PURSE**
**Simon Knee, Newark, N. J., and George Markus, Brooklyn, N. Y., assignors to Aristocrat Leather Products, Inc., New York, N. Y., a corporation of New Jersey**
**Application December 9, 1947, Serial No. 790,514**
**5 Claims. (Cl. 150—35)**



1. A combined wallet and purse article, comprising inner side walls joined at their inner end edges and open at their outer end edges, and opposed side walls having adjacent side edges joined to each other and to said inner side walls at the opposite ends of said outer end edges thereof, said opposed side walls extending from said outer end edges of said inner walls beyond the inner end edges of the latter and defining a main wallet pocket, one of said opposed side walls being provided with an opening for access to said main wallet pocket, the outer end portions of said inner and opposed walls having tunnels therebetween extending transversely thereof, and spring strips in said tunnels, respectively, for releasably fastening said outer end edges of said inner walls to each other, and strips of sheet material secured to said spring strips, respectively, and projecting beyond the opposite ends of the latter and secured to said tunnels at the outer ends of said tunnels.

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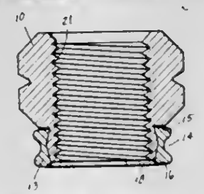
**2,646,097**
**AUTOMOBILE COVER**
**Delbert R. Gaverth, Des Plaines, and Albert Erickson, Chicago, Ill.**
**Application December 22, 1950, Serial No. 202,316**
**3 Claims. (Cl. 150—52)**



1. Automobile cover means fitting substantially configuratively the body of a vehicle, comprising a cover element including a central rectangular section, a pair of substantially smaller rectangular portions extending centrally and in transverse relationship from two opposite laterals of the said central rectangular section, and gore portions extending from the said two opposite laterals and positioned adjacent the said smaller rectangular portions defining triangularly-shaped openings between adjacent laterals of the said smaller rectangular portions and the said gore portions when the said cover is disposed in a single plane.

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**2,646,098**
**LOCK NUT ASSEMBLY**
**Edwin W. Pummill, Indianapolis, Ind.**
**Application June 23, 1949, Serial No. 100,772**
**2 Claims. (Cl. 151—19)**

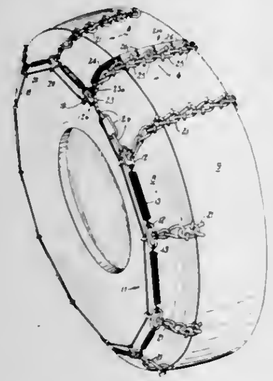


1. A self-energizing reuseable lock-nut assembly for work engagement comprising a nut body faced for wrench engagement and a washer body, a neck extension of reduced diameter at one end of said nut body to provide an outwardly extending thrust bearing surface, said nut body and

extension having an axial bore with internal threads common thereto, the external peripheral wall of said extension being of reverse frustro-conical contour to provide an intermediate annular crest with oppositely directed inwardly tapering surfaces, the said washer body having an external periphery of less outside diameter than the nut body and an axial bore of greater diameter than the bore of said nut body, said washer bore having a reverse frusto conical configuration complementary to the periphery of the wall of said extension and surrounding and closely embracing said extension in permanently interlocked relationship therewith, with one end face engaging the said bearing surface of said nut body and the other end face extending beyond the free end of said extension for end thrust bearing engagement with the work, the relative thickness of stock of said washer and extension being substantially equal and an annular channel extending about the periphery of said washer intermediate its end faces in alignment with and opposite the annular crest of said extension providing a fulcrum point of axial forces for flexing said extension from adjacent said bearing surface upon applied axial pressure and provide the nut with a locking and compression value.

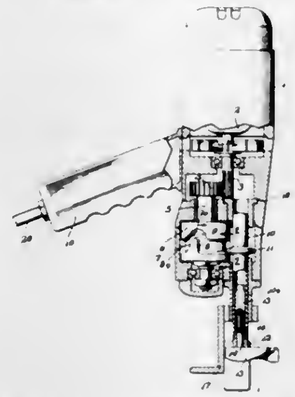
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**2,646,099**
**ANTISKID TIRE CHAIN**
**Lee N. Johnson, Seattle, Wash.**
**Application May 23, 1950, Serial No. 163,750**
**9 Claims. (Cl. 152—213)**



1. A tire chain comprising an expansible first connector means adapted to be disposed circumferentially adjacent the inner sidewall of a tire; a plurality of cable guide means disposed about said expansible connector means and through which a cable may be threaded to follow the path of said expansible connector means; a second connector means adapted to be disposed adjacent the outer sidewall of a tire; transverse cable guide means adapted to extend crosswise of the tire tread portion of a tire and connect between said first and second connector means; and cable means connected with a portion of said expansible connector means, threaded through said cable guide means and extending circumferentially for substantially 360° about the said inner tire sidewall, threaded through said transverse cable guide means to extend substantially transversely of the tread portion of a tire to the said outer sidewall of a tire, and adapted to be connected to the second connector means.

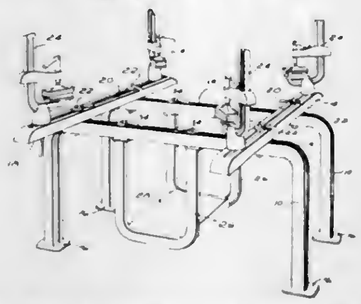
**2,646,100**
**POWER HAMMER**
**Harry E. Gibson, Muskegon, Mich.**
**Application December 5, 1949, Serial No. 131,221**
**4 Claims. (Cl. 153—21)**



1. In a tool of the class described, a support, an elongated hammer shaft slidably mounted on said support and extending beyond an end thereof, a hammer at the outer end of the shaft, a rotatable cam mounted on the support, means to continuously rotate the cam, cooperating means on said shaft engageable with said rotatable cam for moving the shaft inwardly and then projecting it forcefully outward with each rotation of the cam, said hammer shaft at its outer portion having an elongated axial opening therein open at its outer end, a nut having an axial opening screw connected with said shaft at its outer end, said hammer having a rod passing through said nut, a member located within the shaft opening screw connected to the inner end of the rod, and compression spring means between said nut and member at their adjacent ends.

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**2,646,101**
**APPLIANCE FOR POSITIONING AUTOMOBILE BODY PARTS FOR REPAIR OPERATIONS THEREON**
**William H. Ferguson, Melrose, Mass., assignor to H. K. Porter, Inc., Somerville, Mass., a corporation of Massachusetts**
**Application September 2, 1949, Serial No. 113,756**
**4 Claims. (Cl. 153—32)**

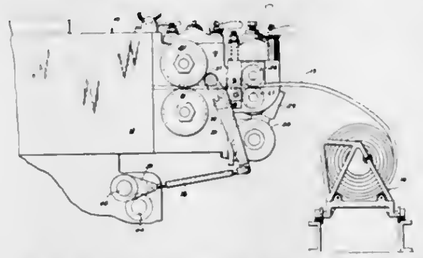


4. A device for positioning automobile frame and body parts while they are being worked upon comprising a pair of independent rigid frames, self-contained and individually portable, the frames being substantially bench high and having the form of an inverted U, the terminals of the legs of the U being such as to permit each frame to stand thereon in stable position, at least the cross member of the U being slotted throughout its length and a pair of rigid beams having longitudinal slots substantially throughout their length providing for the application of clamping bolts through the slots of the beams and the frames respectively for assembly of the beams and the cross members of the U's as an elevated horizontal frame-work, a pair of smaller rigid U-shaped frames of lesser length and altitude than the first mentioned frames, the terminals of the legs of the smaller frames being formed to seat over a substantial area on the lower surfaces of either the first mentioned frames or the beams to be clamped thereagainst to support the smaller frames rigidly therefrom, the cross bars of the smaller frames providing for the support of a jacking platform extending between the same which, when the smaller frames are clamped in position, is suspended beneath the upper surface of such horizontal frame-work.



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**2,646,102**
**STOCK STRAIGHTENER FOR COLD HEADER DEVICES**
**John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio**
**Application March 15, 1949, Serial No. 81,514**
**3 Claims. (Cl. 153—39)**

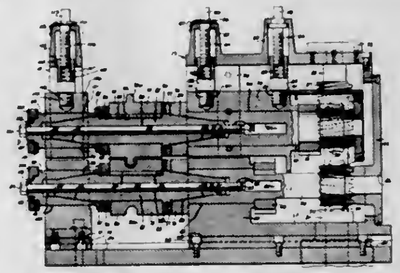


1. A stock straightener for a header having a pair of intermittently operated feed rolls, said straightener including stock guiding means arranged substantially in axial alinement with the pass of said feed rolls, an anvil positioned between said feed rolls and said guiding means on one side of the line of feed of the stock, said anvil including a surface closely adjacent to the line of feed of the stock and a surface merging therewith and extending away from such line of feed, a movable straightener element disposed on the other side of the line of feed of the stock and means for moving said movable straightener element to press the stock being fed against the said surfaces of said anvil while said feed rolls are idle.

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**2,646,103**
**ROLLING MILL**
**Joseph D. Kiss, Detroit, Mich.**
**Application July 3, 1948, Serial No. 36,949**
**2 Claims. (Cl. 153—54)**

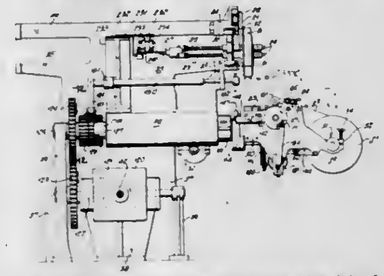
1. A roll assembly for a rolling mill, comprising an arbor having tapered approximately conical opposite end portions, a roll drivingly mounted on said arbor intermediate said conical end portions, a roll driving shaft having an approximately conical socket therein matingly receiving one of said conical end portions, a bearing member also having an approximately conical socket therein matingly receiving the other conical end portion, said conical arbor end portion tapering outwardly away from said roll toward said shaft and bearing member sockets respectively, and said sockets flaring inwardly toward said roll, said arbor and said bearing member each having a longitudinal bore therethrough,



and a fastener mounted in said bores said fastener detachably securing said bearing member and said arbor to said roll driving shaft and urging said conical end portions and said conical sockets into engagement with one another.

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**2,646,104**
**STRIP APPLYING MECHANISM IN OR FOR BOOKBINDING MACHINES**
**Thomas Blair Hawkes, Champlain, N. Y., assignor of one-half to The Sheridan Iron Works, a corporation of New York, and one-half to T. W. & C. B. Sheridan Company, a corporation of New York**
**Application September 29, 1950, Serial No. 187,414**
**31 Claims. (Cl. 154—41)**



1. In a book binding machine of the kind having a driven train of book clamps adapted to hold and to advance along a given travel path a procession of books with their backs exposed downwardly, with continuous book travel along the line of a series of successive operating mechanisms, and in combination therewith and following the glue applying position in the machine a strip applying mechanism adapted to place glue-pervious strips upon the glued backs of the successive books and having a strip support element adapted to hold each strip in position parallel to the book back; said mechanism including a floating carriage carrying said strip support and located in the region below the adjacent path of book travel; carriage guiding and driving connections adapted and timed with a translatory motion to shift said carriage and strip support in a way to follow, with each round of shift per book cycle, an upright closed curvilinear orbit so disposed and in such orbital direction that at the orbital high point the strip support is closely below and parallel to the book back position while tangentially shifting advancingly at a speed co-

ordinated with the book travel; and pneumatic means extending and connected to said strip support and having timing and pressure means to discharge air in each cycle while the strip and support are at the orbital high point and the strip is in register with the book, thereby to deliver an air puff upwardly to impel the strip across the narrow gap from its support to the glued back of the book.

**2,646,105**
**HEAT SEALING MACHINE**
**Nicholas Langer, New York, N. Y.**
**Application April 6, 1951, Serial No. 219,666**
**5 Claims. (Cl. 154—42)**



1. A heat sealing machine comprising, in combination, a stationary sealing member having a sealing face adapted to be heated to heat sealing temperatures, and a pressure member therefor, said pressure member including an inflatable pad of elastic material having a surface mounted on a stationary support and another surface constituting a yielding pressure-exerting face whereby upon inflation of said pad uniform sealing pressure may be applied upon plies of thermoplastic sheet material interposed between said sealing face and said pressure-exerting face.

**2,646,106**
**HINGE CONSTRUCTION FOR ELEVATING CHAIR SEATS**
**Paul A. Terry, Lynwood, Calif., assignor of one-half to Herbert A. Huebner and Albert M. Herzig**
**Application April 6, 1948, Serial No. 19,202**
**10 Claims. (Cl. 155—91)**



7. In a toggle hinge of the character described a bracket forming an abutment, means for securing said bracket to a rail of a chair, a substantially U-shaped toggle link pivotally mounted on said bracket, said bracket extending above said pivotal mounting and limiting the pivotal movement of the opposed arms of the toggle link in a substantially upright position of the link relative to the bracket, the opposing arms of said toggle link being flared outwardly relative to one another and means associated with the ends of said arms restraining said arms when upright against relative spreading movement under the influence of a force pressing downwardly upon and supported by said ends.

**2,646,107**
**CONVERTIBLE CHAIR**
**William H. Murphy, Chicago, Ill.**
**Application July 5, 1947, Serial No. 759,207**
**3 Claims. (Cl. 155—112)**

1. An upholstered chair comprising a base portion, said portion being upholstered to provide an ottoman, a back portion attached to the base portion as a unit, a pair of arms pivoted to the back portion at a point above the base portion and movable from a substantially vertical position to a substantially horizontal position, stop means to prevent upward and backward movement of said arms beyond positions wherein



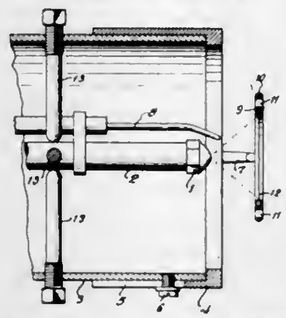
the lower surfaces of said arms are flush with the front surface of said back, stop means to prevent movement of said arms downwardly beyond positions where they serve as arm rests, and means for moving said arms outwardly and subsequently inwardly during movement of said arms between the limiting positions.

**2,646,108**
**SPRING**
**Harry H. Norman, Los Angeles, Calif., assignor to Zig Zag Spring Company, Los Angeles, Calif., a partnership**
**Application April 30, 1951, Serial No. 223,738**
**9 Claims. (Cl. 155—179)**



2. A spring comprising a span of laterally corrugated spring wire longitudinally arched, convolutions of which inwardly of the supported ends of the span as they approach the ends of the span are vertically corrugated with a plurality of up and down progressively deeper corrugations.

**2,646,109**
**BURNER FOR LIQUID FUEL**
**Fritz Banscher, Basel, Switzerland**
**Application September 2, 1947, Serial No. 771,809**
**In Switzerland June 29, 1946**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires June 29, 1966**
**1 Claim. (Cl. 158—76)**

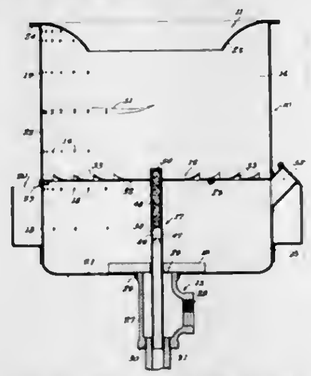


In a burner for liquid fuel, a nozzle having a predetermined spray angle for a predetermined



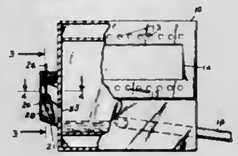
oil viscosity and pressure whereby a conical spray is formed, a fuel supply pipe carrying said spray nozzle at its discharge end and adapted to set up vaporization of the fuel in a zone located a predetermined distance in front of said nozzle, an air tube concentrically surrounding the fuel supply pipe and nozzle, and an annular disk-shaped element of smaller outside diameter than said tube substantially equal to one-half the diameter of said tube and located forwardly of said air tube and arranged in axial alinement with the fuel supply pipe and nozzle and axially spaced in front of said nozzle, said annular disk-shaped element being provided with a series of spaced small round openings arranged circumferentially to provide a series of passageways concentrically surrounding the central opening of said annular disk-shaped member, said circumferentially spaced openings being adapted for the passage of air streams formed by air forced through said air tubes, the central opening of said disk-shaped element being provided with opposed beveled edges on its inner circumference extending between the two faces of the disk-shaped element, said disk-shaped element being mounted for axial adjustment with respect to the air tube and fuel nozzle and positioned with the beveled edge of the central opening in the annular disk-shaped element intercepting the outer surface of said predetermined spray angle of said nozzle whereby said edge prevents passage of the air stream through said opening but permits excess air in optimum amount to be fed to the flow path through said series of circumferentially arranged openings and thus support complete combustion such that the burner flame will originate substantially in the plane of the disk-shaped element and project forwardly therefrom.

**2,646,110**
**POT-TYPE OIL BURNER**
**William O. Horne, Pasadena, Calif.**
**Application October 9, 1947, Serial No. 778,815**
**7 Claims. (Cl. 158—91)**



1. An oil burner comprising a pot having a bottom and a side wall, such side wall being provided with air holes at different levels, a grid member positioned in said pot above some of said air holes and below others of said holes and extending transversely of said pot, said grid being provided with apertures and imperforate shielding means overlying the same and associated therewith and spaced therefrom to permit efflux of gases from below said member while shielding the bottom of said pot from radiant heat of the flame above said member, said shielding means being arranged to direct substantially all of the gases vaporized in the bottom portion of the pot from therebeneath outwardly toward the wall of said pot, and means to supply oil at the bottom of said pot.

**2,646,111**
**POT-TYPE OIL BURNER AND IGNITER**
**Harry C. Long, Portland, Oreg., assignor to Reliance Manufacturing Company, Incorporated, Portland, Oreg., a corporation of Oregon**
**Application October 17, 1947, Serial No. 780,413**
**3 Claims. (Cl. 158—91)**

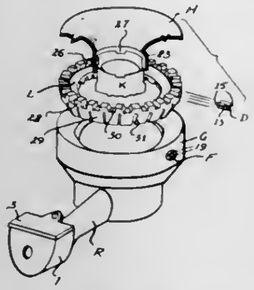


3. A liquid fuel burner comprising an open receptacle including a bottom and a wall and having air and fuel inlet openings thereinto, vaporization of the fuel being generated in said burner receptacle by the heat of combustion, and an igniter comprising means forming a pocket on a portion of the exterior surface of the burner receptacle spaced from said fuel inlet opening, said pocket having an opening at its upper end and a closed lower end, a plug formed of heat resisting, electrical insulating material closing said upper end opening, a pair of conductors extending through said plug into said pocket, said conductors being electrically insulated from each other and from said pocket-forming means by said plug, electric fuel vaporizing and igniting means in said pocket and including a portion in circuit with said conductors, there being an ignition flame opening connecting the interiors of said burner receptacle and said pocket, the lower edge of said ignition flame opening being above the bottoms of said pocket and of said receptacle and below the level to which fuel may rise in said receptacle whereby fuel may flow from said burner receptacle into the closed lower end of said pocket and an ignition flame may project from said pocket into said burner receptacle across the surface of fuel therein.

**2,646,112**
**GAS BURNER HAVING PARTITIONED OUTLET PORTS**
**Almer H. Brodbeck, St. Louis, Mo., assignor to Magic Chef, Inc., a corporation of New Jersey**
**Application October 1, 1948, Serial No. 52,177**
**5 Claims. (Cl. 158—116)**

1. An improved circular gas burner of small diameter but having a large aggregate burner port area, said burner comprising a circular fuel mixture receiving chamber having an open upper end, a circular burner head, said head comprising a metallic cap carrying on its bottom a cast ring having a plurality of radially extending spaced apart channelways, the inner ends of said channelways communicating with the fuel mixture chamber and the outer ends of the channelways communicating with the atmosphere exterior of the chamber, alternate of said channelways being of large area and having open tops closed by the burner cap, the intermediate channelways being in the bottom of the ring and having open bottoms closed by the upper end of the side wall of the fuel mixture chamber, and means in the

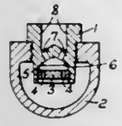
large area channelways subdividing each of them into a plurality of side by side small channelways,



and all of the aforementioned channelways constituting the burner ports of the burner.

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**2,646,113**
**COMBUSTION CELL GAS BURNER**
**Ernest Edward Tavener, London, England, assignor to Keith Blackman Limited, London, England, a company of Great Britain**
**Application March 19, 1949, Serial No. 82,310**
**In Great Britain April 20, 1948**
**1 Claim. (Cl. 158—116)**



A burner nozzle for gaseous fuels having a mouth-forming chamber with a side wall within and from which chamber combustion proceeds, and means forming an internal chamber in the nozzle provided with flow-restricting gas inlet orifices, said means including an end wall separating said internal chamber from said mouth-forming chamber, said end wall being provided with flow restricting gas outlet orifices leading from said internal chamber into said mouth-forming chamber, said outlet orifices diverging from one another in the direction of flow of gaseous fuel from the internal chamber to the mouth-forming chamber and each outlet orifice having an outlet opening located in a position for impinging gaseous fuel against the interior of the side wall of the mouth-forming chamber, said inlet and outlet orifices providing the only means of access of gaseous fuel to said mouth-forming chamber, whereby all the gaseous fuel supplied to the nozzle flows through said inlet and outlet orifices and is directed outwardly against the inside surface of the side wall of said mouth-forming chamber by said diverging outlet orifices.

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**2,646,114**
**VENETIAN SHADE**
**Philip A. Kearny, Baton Rouge, La.**
**Application August 3, 1951, Serial No. 240,237**
**5 Claims. (Cl. 160—89)**

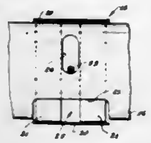
1. A Venetian shade construction comprising a window shade and a Venetian blind assembly, said window shade including a reinforcing sleeve at its free end and a stiffening bar disposed in said sleeve, said sleeve being slotted at spaced points along its length to expose portions of said stiffening bar, pairs of vertically disposed tapes secured to the exposed portions of said stiffening bar and a set of elongated slats mounted in said tapes, said stiffening bar constituting a tilt rail



for said slats, said Venetian blind assembly consisting of said stiffening bar, slats and tapes.

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**2,646,115**
**VENETIAN BLIND**
**Leon R. Bucher and Omar K. Skiver, Riverside, Calif., assignors to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware**
**Application January 24, 1952, Serial No. 267,952**
**2 Claims. (Cl. 160—173)**



1. A crowned slat for use in a full-closure Venetian blind having slat-supporting ladders and lift cords, each of said ladders comprising a pair of tapes disposed on opposite sides of said slats and connected together by a plurality of narrow cross bars which are staggered alternately on opposite sides of the centerline of the tapes, said lift cord passing down through said ladders between said alternately staggered cross bars, each of said slats being provided with a transversely elongated, closed cord hole offset laterally to one side of the longitudinal centerline thereof, said lift cords passing through said cord holes, and each of said slats having a longitudinally elongated notch formed in the edge thereof in lateral alignment with said cord hole on the opposite side of said centerline, said notch being wider than the combined width of two adjacent cross bars and substantially deeper than the thickness of said lift cord, and said notch being normally at the bottom of said slat when the latter is tilted to the closed position.

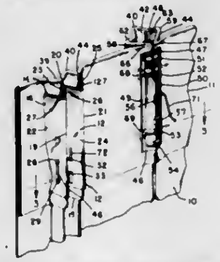
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**2,646,116**
**DRAPERY PLEAT CONSTRUCTION**
**Alice M. Freeman, Minneapolis, Minn.**
**Application June 19, 1950, Serial No. 168,958**
**3 Claims. (Cl. 160—348)**

1. In drapery pleat construction, a drape, a form constructed from a sheet of bendable material having greater rigidity than the material of the drape and formed with spaced edges and bent alternately in opposite directions in accordion fashion along spaced lines extending



generally in the same direction as said edges to form pairs of juxtaposed panels with reentrant angles therebetween facing forwardly of the drape and with said edges forming the lateral edges of the outer panels of the pairs of panels, said drape being folded at the bends of the form and having portions received within said reentrant angles and overlying the forward surfaces of said panels, a fastener extending through each of said portions of the drape received within said angles and through the pairs of panels of the form providing the angles in which said portions are received to bring said portions of the drape in over-



lying contacting position, said drape having other portions folded back over the lateral edges of the outer panels and upon the rearwardly facing surfaces of the outer panels and concealing said fasteners and having bends at the rearward portions of said outer panels extending rearwardly of the portions of the drape received within said reentrant angles and said form to provide outwardly facing pleats in the drape and fastening means engaging said drape at said bends and holding the bends thereof in juxtaposition to envelope said form, said fasteners being disposed at a locality spaced from the upper end of the form to provide in the pleats gathers.

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**2,646,117**
**STORM WINDOW STRUCTURE**
**Donald R. Hodgins, East Cleveland, Ohio, assignor to Superduction, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application March 31, 1949, Serial No. 84,716**
**9 Claims. (Cl. 160—368)**



1. A temporary storm window structure comprising a thin transparent membrane of moisture resistant sheeting material, four sheet tensioning strips of moisture resistant material tackable to the flat surfaces of a window casing and the marginal portions of the sheet being wrapped about the four tensioning strips and the strips serving to substantially uniformly tension the sheet material at the time of application of the temporary storm window structure to a window frame and securing means driven through the wrapped convolutes of the sheet material and the tensioning strips and into the window casing.

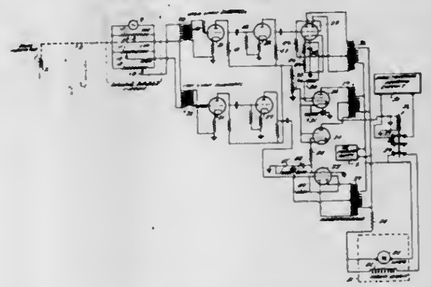
**2,646,118**
**SNOW SHIELD FOR MOTORCAR WINDSHIELDS**
**William J. Berty, Bridgeport, Conn.**
**Application February 29, 1952, Serial No. 274,230**
**6 Claims. (Cl. 160—369)**



4. A snow shield for windshields comprising a body member of sheet material for overlying a section of the windshield and substantially conforming to the surface of the windshield, a plurality of securing means adjacent the top and end edges of the body member each comprising a hand grip on the outer side of the shield and a suction cup connected to the shield on the inner side, stiffening means along the top and end edges of the body member comprising strips of relatively resilient metal having portions thereof bent toward the windshield holding the body member to shape and holding said edges against the surface of the windshield.

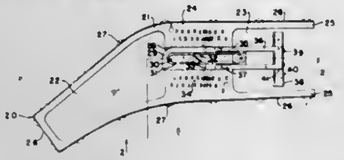
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**2,646,119**
**SCORING SYSTEM**
**William W. Wood, Jr., Fenton, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force**
**Application August 27, 1951, Serial No. 243,826**
**3 Claims. (Cl. 161—15)**



2. A scoring system, comprising a sensing bridge circuit containing a variable potentiometer and a plurality of adjustable limit setting potentiometers connected to produce an error voltage when the movement of the variable potentiometer exceeds the adjustment of one of the limit setting potentiometers, an amplifier discriminator circuit containing a plurality of channels corresponding to the plurality of adjustable limit setting potentiometers in said sensing bridge circuit and converting the error voltage from said sensing bridge circuit into a direct current that is sustained during the time the movement of the variable potentiometer exceeds the setting of the limit setting potentiometer, a relay means energized by the direct current from the amplifier discriminator circuit to open a relay contact, and a timer circuit normally running a clock and deenergized to stop the clock during the time the variable potentiometer setting exceeds the adjustment of one of the limit setting potentiometers.

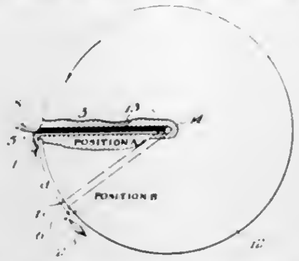
**2,646,120**
**DIE FOR CUTTING COAT COLLAR PARTS**
**Joseph J. Pietrafesa, Syracuse, N. Y., assignor to Jos. J. Pietrafesa Co., Inc., Syracuse, N. Y., a corporation of New York**
**Application February 8, 1950, Serial No. 142,960**
**1 Claim. (Cl. 164—29)**



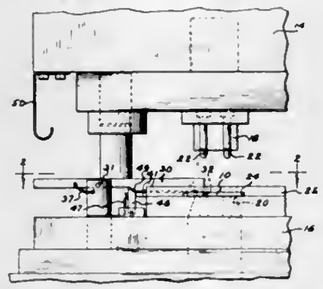
A die for cutting coat collar parts, comprising a body, the periphery of which conforms to the outline of the collar part when folded double along a transverse midline at the back of the neck, said body comprising a central substantially rectangular portion with two parallel side arms extending from one end thereof defining an opening at one end of the body, an angularly directed extension at the other end of the central portion of the body, a knife blade extending around the outer sides of the parallel arms, central portion of the body and the angularly directed extension on the body and projecting below said body, said central portion of the body having a longitudinally recessed guideway in its upper face midway the side edges thereof, a slide mounted in said recessed guideway for movement longitudinally of said body with its upper side substantially flush with the upper face of the body, collar size indicia and an index mark located one on said body and the other on said slide whereby said slide may be adjusted for cutting collar parts of different sizes, means positioned below the upper surface of the slide for releasably locking said slide in adjusted position, a leaf spring secured to said slide and longitudinally extending into the opening between said side arms and a stop carried by the free end of said leaf spring and adapted to be resiliently held thereby with the bottom of the stop contacting a flat surface on which said die may be placed, whereby a doubled piece of cloth may be placed under said die with its fold abutting said stop and said cloth may be cut by said die to form a one-piece collar part exactly symmetrical with respect to said fold and of a size corresponding to the setting of said slide and stop, and said stop being of angle formation to provide a horizontal foot portion extending toward said central rectangular body portion and adapted for placement under the adjacent folded end of the cloth to be cut.

**2,646,121**
**STAPLE CUTTER AND METHOD**
**Russell Wilbur Peterson, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**
**Application May 20, 1950, Serial No. 163,201**
**3 Claims. (Cl. 164—38)**

1. In apparatus for cutting staple fibers from a bundle of continuous filaments comprising rotating means for feeding the end portion of the bundle axially at a uniform rate and in a spiral path by the action of centrifugal forces and cutting means arranged at a fixed position in the path of said bundle for cutting the bundle into fibers of uniform length, the improvement which comprises additional cutting means disposed at a second fixed position in the path of said bundle, said second position being in the same spiral path as said first cutting means so as to cut filaments missed by said first named cutting means at substantially the same point in said bundle.



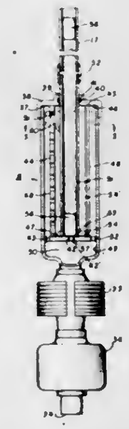

**2,646,122**
**STOP GAUGE FOR A PUNCHING APPARATUS**
**Alexander M. MacPheat, Indianapolis, Ind., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application November 21, 1950, Serial No. 196,778**
**3 Claims. (Cl. 164—59)**



1. In a punch press including a pair of cooperable relatively movable die elements, means for moving the die elements together and apart, means for guiding a strip from which articles are to be punched across one of the die elements, a stop operable by and designed to enter an opening in the strip formed by the die elements to limit travel of the strip, the combination therewith of a latch for maintaining the stop in an inoperable position, means for actuating the latch, and a feeler associated with the guideway operable while in engagement with the strip for holding the latch-actuating means inoperative.

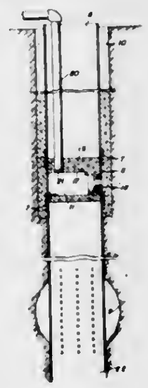
**2,646,123**
**APPARATUS FOR INTRODUCING FLUID INTO SUBSURFACE FORMATIONS**
**Norman A. Nelson, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware**
**Application December 14, 1950, Serial No. 200,769**
**2 Claims. (Cl. 166—1)**

1. A device for spotting a fluid material in a well comprising an outer sleeve, a horizontally disposed stop in said sleeve having at least a port adjacent an outer periphery of the stop and a second port in said stop centrally disposed therein for the passage of fluid therethrough, an inner perforated sleeve concentrically arranged within said outer sleeve to form an annular space between the outer surface of the perforated sleeve and the inner surface of said outer sleeve communicating with said port, the upper end of said perforated sleeve and the upper end of said outer sleeve being joined in fluid-tight relation, the lower end of said perforated sleeve abutting against said stop, and a tubular member adapted to be connected at its upper end to a tubing string, said tubular member being slidably arranged in said perforated sleeve for longitudinal movement therein, said tubular member and tubing containing at least one plug slidably arranged therein in fluid-tight relation with the inner surface of said tubular member and tubing.





**2,646,124**
**CASING SEALING SHOE OR BOOT**
**Joseph L. Strickler, Cherryvale, Kans.**
**Application October 15, 1951, Serial No. 251,355**
**1 Claim. (Cl. 166—1)**



Means for sealing a well casing in a bore hole comprising, a nipple interposed in the casing, an elongated, hollow body mounted diametrically in said nipple, a transverse, vertical partition in the body defining inlet and outlet chambers, said partition having a port therein for the passage of cement from the inlet to the outlet chamber, a gravity closed check valve hingedly mounted on the partition for preventing retrograde flow of the cement through the port, a detachable supply tubing threadedly connected to one end of the body and communicating with the inlet chamber, a breakable discharge conduit threadedly connecting the other end of the body to the nipple in spaced relation thereto for supporting said body therein, said conduit communicating with the outlet chamber, and cement in the nipple encasing the body and the conduit, said one end of said body abutting the nipple.

**2,646,125**
**APPARATUS FOR MULTISTAGE CEMENTING OF DEEP WELLS**
**Jesse E. Hall, Weatherford, Tex., assignor of ten per cent to Parker Industrial Products, Inc., Weatherford, Tex., a corporation of Texas**
**Application November 29, 1946, Serial No. 712,950**
**10 Claims. (Cl. 166—1)**



1. Well cementing apparatus comprising a well casing having a lateral port therein, a lower sleeve and upper sleeve in the bore of the casing and movable longitudinally thereof, a member smaller in diameter than said sleeves adapted to travel downwardly through the casing, the lower sleeve initially covering said port and having an inwardly extending projection in the path of the member, means including a retaining element on the upper sleeve initially connecting said projection to said lower sleeve whereby said projection transfers the downward movement of said member to said lower sleeve, said last means controlled in accordance with the position of the lower sleeve and effective responsive to a downward movement of the lower sleeve sufficient to uncover said port to free said projection from the lower sleeve, thereby to permit said member thereafter to advance through the lower sleeve.

**2,646,126**
**WELL SCREEN**
**Grover D. Goodner, Houston, Tex.**
**Application August 18, 1950, Serial No. 180,240**
**3 Claims. (Cl. 166—5)**

1. A well screen comprising, a perforated tubular core, flange means secured to each end of the core, a plurality of disc-shaped members arranged in superposed relation on the core between the flange means, portions of said members being spaced apart to form radially outwardly flaring passageways between the mem-

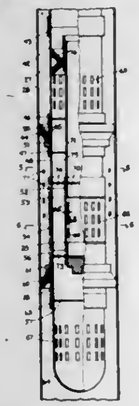
bers, and yieldable means around the core and cooperable with said members and flange means



to exert pressure on said members longitudinally of the core.

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2,646,127
**WELL FORMATION TESTING TOOL**
**Christian W. Breukelman, Bogota, Colombia**
**Application February 1, 1947, Serial No. 725,813**
**2 Claims. (Cl. 166—11)**



1. A production testing device for a well substantially filled with liquid comprising a conduit extending into the well bore to a point adjacent a formation whose production is to be tested, a pair of axially spaced cup shaped sealing swabs carried on the exterior of and surrounding said conduit and disposed one above and one below a perforate section of said conduit, said swabs oppositely disposed with their lips extending away from each other and adapted to sealingly engage the interior of the well wall above and below the formation to be tested to isolate such formation from and against the hydrostatic pressure of the liquid within the well and exteriorly of the conduit above the upper and below the lower swab, said device being positioned in the well with said swabs being spaced one immediately above and one immediately below the formation to be tested, a by-pass means extending through the interior of said conduit between said swabs and opening to the exterior of said conduit at each end of the by-pass means above the upper swab and below the lower swab and communicating the well bore outside said conduit above the upper of said swabs with the well bore below the lower of said swabs, and valve means interposed in said conduit and operable for alternatively and selectively communicating the well bore outside said conduit between said swabs with the well bore outside said conduit above the upper of said swabs or with the interior of said conduit above said valve means.

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2,646,128
**DRILLING EQUIPMENT**
**John M. Reynolds, Shreveport, La.**
**Application October 18, 1948, Serial No. 55,125**
**1 Claim. (Cl. 166—19)**



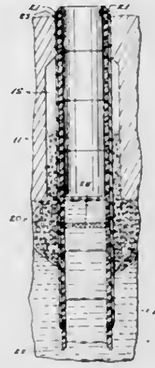
Drilling equipment of the cable tool type comprising, a barrel having a chamber provided with an inlet and outlet, entrapping means controlling the inlet, a drill on the lower end of the barrel for disintegrating material in a well bore, said drill having a downwardly extending downwardly tapering blade having a transverse opening therethrough in communication with said inlet and cutters extending from the opposite sides of said blade above the edge thereof and terminating opposite said opening and below the upper end thereof a plunger reciprocable in the chamber and having a passage therethrough, valve means controlling the flow of fluid through said passage and operative upon movement of said plunger away from said inlet to close said passage, whereby said plunger is adapted to draw a load of the disintegrated material into the chamber past the entrapping means, a cable connected to the plunger whereby the drilling equipment may be operated in the well bore and whereby the plunger may be independently operated to draw the disintegrated material into the chamber and valve means controlling the outlet to allow the discharge of said load.

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2,646,129
**WELL CONSTRUCTION**
**James M. Dunn, Sandpoint, Idaho**
**Application February 12, 1948, Serial No. 7,870**
**2 Claims. (Cl. 166—26)**

1. A well drilling method for providing wells in water bearing quicksand which comprises drilling the well of casing size to the water bearing layer of quicksand, enlarging the lower portion of the well by reaming immediately above the water level, lowering imperforate casing sections into the well and suspending them to rest in the quicksand and extend below the reamed out opening, building up the casing to a height just below the top of the reamed out portion of the well, covering the casing, pouring a body of gravel in the space around the casing formed by the reaming operation, removing the cover and adding casing sections to the top of the well, and, with the casing sections in place and stationary, removing quicksand at the bottom of the casing, thereby causing water bearing quicksand around the bottom of the casing to cave inward and part of the gravel body in the enlarged portion around the suspended casing to flow down and spread

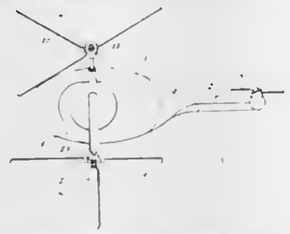




into the caved area, then lowering the casing, adding casing sections at the top, as the lowering progresses, until a substantial storage space for water is cased in below the caved area, and providing a band of small openings in the wall of the casing located near the top of the storage space but below the water level, draining sand and water from the surrounding area through said openings and thereby causing the gravel to flow down into the area around said openings and form a filter bed.

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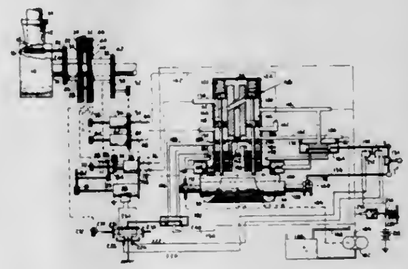
2,646,130
**HELICOPTER**
**Jaime Udelman, Cartago, Costa Rica**
**Application December 29, 1950, Serial No. 203,265**
**4 Claims. (Cl. 170—135.22)**



4. In a helicopter including a body and sustaining rotors disposed above and connected to said body in spaced apart relationship to each other, a support fixed in said body, a carrier pivotally connected to the upper end of said support for tilting movements relative to the latter, a head journaled at one end on said carrier for rotation therearound and having bearing tubes inclined upwardly and outwardly from the other end thereof, the axis of rotation of said head about said carrier being substantially perpendicular to the axis of tilting movements of said carrier relative to said support, rotor shafts journaled one in each bearing tube and each connected at its outer end to a corresponding rotor, a drive shaft journaled on said support, means drivingly connecting said drive shaft to said rotor shafts for driving said rotor shafts about their individual axes, means drivingly connecting said drive shaft to said head for rotating said head about said carrier and revolving said rotors and rotor shafts about the axis of rotation of said head, and manually operated means connected to said carrier for controlling tilting movements of said carrier, said head, said rotor shafts and said rotors relative to said support about said axis of the pivotal connection between said head and said support.

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2,646,131
**PROPELLER PITCH CHANGE MECHANISM**
**Joseph M. Mergen, Verona, and Howard Murphy, Glen Ridge, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware**
**Application January 29, 1949, Serial No. 73,586**
**12 Claims. (Cl. 170—160.28)**



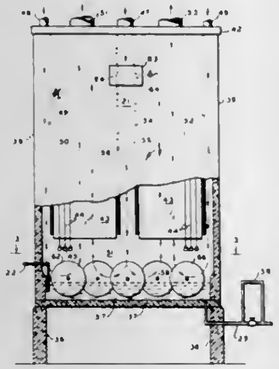
2. In a propeller comprising a hub and blade adjustably mounted therein for pitch change, mechanism including a gear train and a clutch therein for changing blade pitch, said clutch being engageable to cause pitch change and disengageable to stop pitch change, cycling means controlling clutch operation, driven by said propeller to cause repeated clutch engagements and disengagements at predetermined frequency means included in said cycling means to vary dwell of clutch engagement and disengagement in each cycle accordingly as the blades are close to or far from the desired blade pitch, said clutch being hydraulically operated, said cycling means comprising a hydraulic valve connected to said clutch and a rotatable and slidable cam operable to open and close said valve, and means to slide said cam to control operation of said cycling means.

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2,646,132
**ELECTRICAL PRECIPITATOR FOR GAS SEPARATION**
**Charles E. Beaver, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York**
**Application January 9, 1951, Serial No. 205,131**
**5 Claims. (Cl. 183—7)**

1. An electrical precipitator comprising a casing, complementary collecting and high tension electrodes in said casing, sump means adapted to contain a pool of liquid positioned beneath said complementary electrodes, liquid inlet and outlet means communicating with said sump means, means conducting material removed from said electrodes into said sump means, a member providing an extended evaporating surface in said casing above the normal level of liquid in said sump means, means for forming on the evaporating surface of said member a film of liquid from

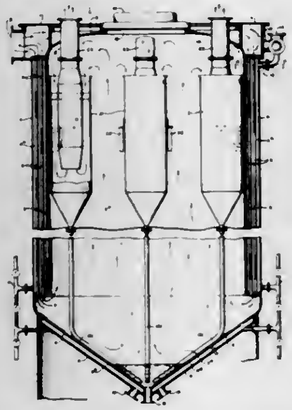
said pool, and means directing a stream of hot gas to be cleaned into contact with a film of



liquid on the evaporating surface of said member and between said complementary electrodes.

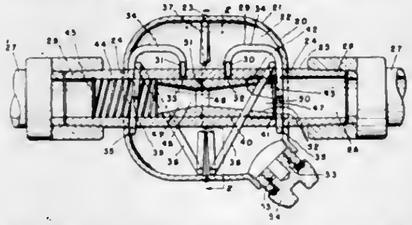
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**2,646,133**
**METHOD AND APPARATUS FOR SEPARATING FLUIDS**
**Hermann C. Schutt, Framingham Center, Mass., assignor to Stone & Webster Engineering Corporation, Boston, Mass., a corporation of Massachusetts**
**Application July 3, 1948, Serial No. 36,917**
**15 Claims. (Cl. 183—32)**



14. Process for separating a liquefiable component from a gaseous material containing the same comprising causing the gaseous material to flow in a confined stream successively through a cooling and condensing zone, an agglomerating zone and a separating zone; subjecting the material in its passage through said cooling and condensing zone and said agglomerating zone to acoustic vibrational energy of progressively increasing intensity and collecting the resulting liquid phase portion of the liquefiable component; subjecting the gaseous material in said separating zone to separation to separate substantially the remainder of the liquefiable component from the gaseous material, combining the separated liquids and separately recovering the combined liquid and the liquid-free gas, as products.

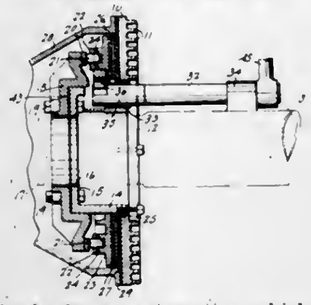
**2,646,134**
**AIR LINE OILER**
**Edward F. Wickens, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey**
**Application June 7, 1952, Serial No. 292,249**
**7 Claims. (Cl. 184—55)**



1. An air line oiler, comprising a casing having a reservoir for oil and a main passageway for pressure fluid, said casing having ports for admitting pressure fluid into the reservoir and oil into the passageway, a valve in the passageway having passages to afford communication between the passageway and the ports, and an actuating surface on the valve subjected to pressure fluid flowing through the passageway for positioning the valve to place the passages into communication with the ports.

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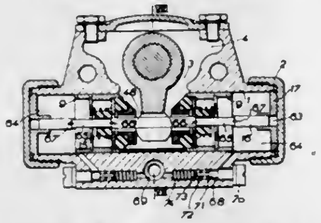
**2,646,135**
**DISK BRAKE**
**Preston William Hovey, Berkeley, Calif.**
**Application June 11, 1949, Serial No. 98,577**
**4 Claims. (Cl. 188—72)**



4. A brake for an automotive vehicle comprising, a backing plate having an axial hub projecting from one face thereof with said hub having an axial axle passage, a thrust plate fixedly secured to the projecting end of said hub to form a rigid non-adjustable unit, a wheel cone rotatable relative to said non-adjustable unit and having its base end sealably cooperating with the peripheral portion of the face of said backing plate, a friction disc and a brake plate housed within said cone and interposed between said backing plate and thrust plate and each having an axial bore for rotation on said hub, and a driving connection between said cone and said friction disc, a single tooth-receiving recess formed in one wall of the bore in said brake plate, a bearing formed in said hub parallel to the axis of said hub and a shaft rotatable in said bearing and having a tooth formed laterally at one end for cooperation in said recess, and having an operating lever mounted on the other end, and cam means cooperative between said brake plate and said thrust plate for causing axial movement of said brake plate coincident with rotational movement created through rotational movement of said shaft.



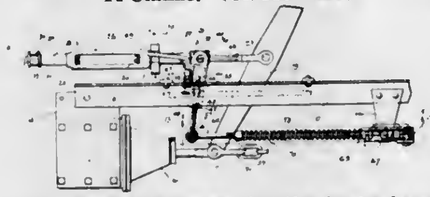
**2,646,136**
**DOUBLE-ACTING HYDRAULIC PISTON SHOCK ABSORBER**
**Charles Granet, Courbevoie, and Maurice Helbig, Paris, France**
**Application January 9, 1950, Serial No. 137,616**
**In France January 22, 1949**
**9 Claims. (Cl. 188—88)**



8. In a shock absorber, in combination, a body having a bore extending through the same forming a piston-receiving-cylinder, said body having a central cavity communicating with said cylinder intermediate the ends of said cylinder and serving as a liquid supply reservoir, a piston formed with heads, means closing the external ends of said cylinder and forming end chambers in said cylinder in front of said piston heads, a longitudinal rod in said cylinder extending through said piston, intake valves in said heads mounted to slide on said rod and having recessed portions providing leakways through said intake valves during given portions of the piston stroke.

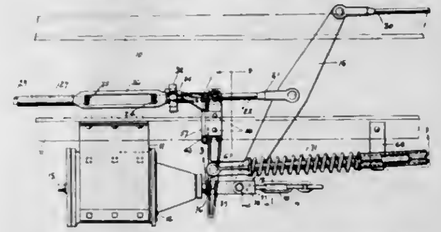
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**2,646,137**
**BRAKE SLACK ADJUSTER**
**George B. Dorey, Montreal, Quebec, Canada, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada, a corporation of Canada**
**Application August 12, 1950, Serial No. 179,046**
**14 Claims. (Cl. 188—200)**



1. In a slack adjuster for the brake leverage system of a railway car and the like comprising a screw threaded member and a complementary threaded element cooperating with the screw thread of said member to vary the length of the said member by rotation of the element, means for rotating the element including a toothed ratchet member fixedly mounted on the element, a lever extending in the general direction of the said element, support means mounting said lever to have oscillatable movement towards and away from the axis of rotation of said ratchet member, said lever being biased into operative engagement with said ratchet member to have driving engagement with one tooth thereof when bodily moved in one direction and to move freely over the ratchet teeth and independently thereof upon reverse bodily movement of the lever, operating means connecting a part of said brake leverage system to said lever to effect reverse bodily movement thereof on application of the brakes, and resilient means biasing said lever to effect bodily movement thereof in said one direction.

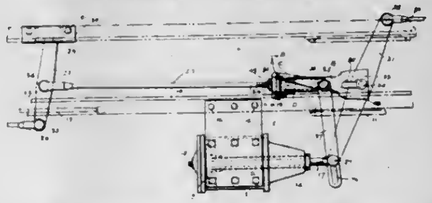
**2,646,138**
**BRAKE SLACK ADJUSTER**
**George B. Dorey, Montreal, Quebec, Canada, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada, a corporation of Canada**
**Application October 23, 1950, Serial No. 191,625**
**9 Claims. (Cl. 188—200)**



1. In a slack adjuster for the lever system of the air brake of a railway car including a lever and a push rod acting thereon, said push rod being in the form of a stem with a pair of jaws adjacent its outer end, said jaws being disposed to straddle the lever; a hand brake connection leading forwardly from said jaws and including a clevis straddling the jaws; a take up adjusting lever operable by movement of the push rod extending across said push rod and above the same; and a guide for supporting the adjusting lever extending lengthwise of the push rod above the jaws of the clevis and united therewith; said guideway extending lengthwise of the push rod to provide a section overlying the stem, said section overlying the stem having an upwardly extending abutment for engagement with the adjusting lever and a downwardly extending pedestal portion seating on the stem and formed with an opening embracing the stem.

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**2,646,139**
**AUTOMATIC SLACK ADJUSTER**
**George B. Dorey, Westmount, Quebec, Canada, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada, a corporation of Canada**
**Application March 27, 1950, Serial No. 152,061**
**13 Claims. (Cl. 188—202)**

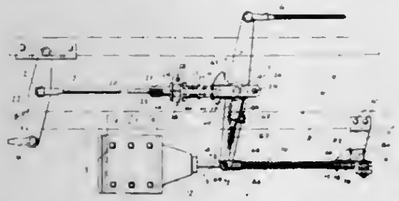


1. The combination, in a braking system including a live lever, a dead lever, a connecting structure therebetween intermediate their ends having a screw threaded device for varying the length of the connection, and brake applying means connected to the live lever to move it in brake setting direction, of spring actuated means carried by said connecting structure for turning said screw threaded device in a direction to remove slack from the braking system and being tensioned by said brake applying means on operation in brake applying direction, interengaging latching means cooperating with said spring means to retain the same under tension independently of said brake applying means, and means disengaging said latching means upon

over-travel of said brake applying means and thereby releasing said spring means to turn said screw threaded device to remove slack from the braking system.

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**2,646,140**
**AUTOMATICALLY OPERABLE SLACK ADJUSTER FOR AIR BRAKES**
**George B. Dorey, Westmount, Quebec, Canada, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada, a corporation of Canada**
**Application May 29, 1950, Serial No. 164,871**
**17 Claims. (Cl. 188—202)**

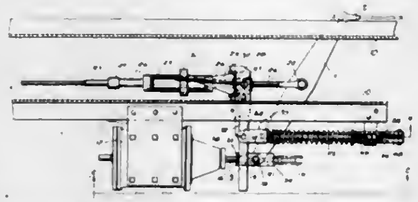


1. In a slack adjuster for the airbrake system of a railway vehicle and the like, in combination with a brake lever and power applying means acting on one end of said lever and a connection pivoted to the lever at an appreciable distance from the brake applying means, said connection having a screw threaded section and a complementary threaded sleeve engaging therewith for varying the length of the connection by rotation of the sleeve; means for automatically effecting rotation of the sleeve upon excessive movement of the brake applying means including a bevel gear pinion, ratchet means operatively interconnecting said pinion and said sleeve whereby on rotation of the former in one direction the latter is rotated and on rotation of the former in the opposite direction the latter is not rotated, and a cooperating bevel gear member meshing with said pinion and pivotally mounted to swing in a plane substantially parallel with the plane of movement of the brake lever; resilient means operatively connected to said bevel gear member and arranged and adapted to oppose the movement thereof when the same is moved in the direction corresponding to the rotation of said pinion in said opposite direction and also operatively connected to the brake applying means so as to be tensioned by movement thereof in a brake setting direction, pawl and ratchet means cooperating with said resilient means to hold the same under tension, and spring energy releasing means controlled by the brake applying means on movement thereof to a predetermined position for releasing the energy stored in said resilient means to rotate the sleeve in a take up direction.

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**2,646,141**
**SPRING MECHANISM FOR SLACK ADJUSTERS**
**George B. Dorey, Westmount, Quebec, Canada, assignor to Continental Transport Appliances, Limited, Montreal, Quebec, Canada, a corporation of Canada**
**Application February 13, 1951, Serial No. 210,747**
**1 Claim. (Cl. 188—202)**

In a slack adjuster for the brake leverage system of a railway car including framing members and a brake cylinder mounted thereon and power applying means actuated by said cylinder for setting the brakes; a slack adjuster device for taking up slack in the leverage system, said adjusting device being operable in one direction by the power applying means and operable in the opposite direction to take up slack in the system, and spring mechanism for operating the device in the take up direction; the herein described improved spring mechanism in combination with a bracket member fixedly mounted on a framing member of the car, said mechanism including outer and inner shouldered members telescopically related and a spring interposed between said shoulders of the respective members, said outer member being of box shape with upper, lower and side walls, said side walls being apertured for the accommodation of the bracket member therethrough, a removable pivot pin extending through said bracket along the longitudinal axis thereof and through the upper and lower walls of the outer member to provide



limited swinging movement of the outer member whereby on removal of said pivot pin said outer member can be removed from said bracket without further dismantling; said inner member including a pair of straps disposed in spaced relation on each side of the pivot and guided thereby, and extending through the said outer member beneath the bracket; and spacing means at each end of the straps, said spacing means at the outer end of the inner member being in the form of a block having ratchet teeth on the underside thereof and a pawl pivotally mounted on the outer member below said block to engage with the ratchet teeth from underneath for holding the spring under compression, said ratchet block upon a predetermined extent of spring compression being arranged to override axis with respect to said link.

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**2,646,142**
**WINDOW STRUCTURE AND GLAZING SEAL THEREFOR**
**William C. Watkins, Los Angeles, Calif.**
**Application September 24, 1951, Serial No. 248,033**
**2 Claims. (Cl. 189—78)**

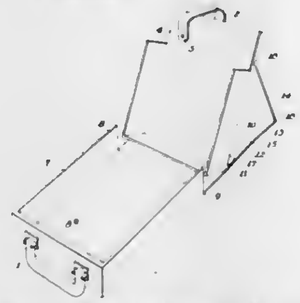


1. A generally U-shaped glazing strip for use with a plurality of elongate threaded fastening means for securing a pane within a frame normal to such frame, comprising: an elongated web formed with a plurality of bores along its length: a first leg extending substantially normally from one edge of said web; a second leg extending from the other edge of said web substantially parallel to said first leg, said second leg being longer than said first leg; and a lip formed along the free end of said second leg said strip being adapted to be secured to said frame with the outer surface of said first leg parallel to and abutting the edge of said pane, and the side of said lip remote from said web parallel to and engaging said frame by extending said fastening means through said bores into said frame, the tightening of said fastening means effecting pivotal movement of said strip about said lip toward said pane whereby the outer surface of said first leg may exert pressure against said pane in a direction away from said strip.



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**2,646,143**
**SAMPLE DISPLAY CASE**
**James Daleo, Long Island, N. Y., and Samuel Foglio, Jr., Teaneck, N. J.**
**Application September 20, 1950, Serial No. 185,874**
**2 Claims. (Cl. 190—16)**

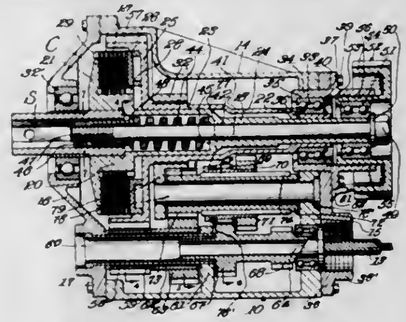


1. A portable sample case, formed of two permanently connected members relatively movable about the connection to permit opening and closing of the case at will, the said members being in the form of two open trays, one serving as a sample-holding tray and the other as a closure for the same, each tray being permanently walled in at the sides and one end only by a continuous rigid wall structure, fixedly secured, the trays being hinged together at one end and movable about the hinge to enter one into the other in telescoping relation with the open end of the sample-holding tray adjoining the permanently closed end of the closure tray, the connection between the trays being formed by hinging a panel that forms a movable end wall of the aforesaid closure tray at one edge to the bottom of the tray to open outwardly as a continuation of said tray bottom and hinging the opposite edge of the aforesaid panel to the bottom of the fixedly secured end wall that closes the adjoining end of the sample-holding tray, permitting the latter to be moved about the hinged connection to any position desired and entered bodily into the first mentioned tray with the hinge-connected end walls of the two trays folded one on the other in close relation forming a double thick reinforcement for that portion that forms the bottom of the case when closed, a releasable fastener securing the free ends of the trays together to close the case, and means for supporting the sample-holding tray in an upright position when the case is open.

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**2,646,144**
**DRILL APPARATUS WITH SAFETY CONTROL**
**Andrew B. Crichton, Jr., Johnstown, Pa., and Carl G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa., a corporation of Delaware**
**Application February 4, 1948, Serial No. 6,236**
**17 Claims. (Cl. 192—3.5)**

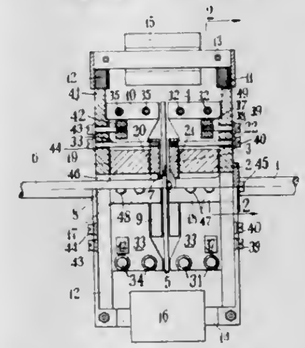
1. Apparatus of the class described having a casing including a wall at one end and a closure member at the other end, a rotatable shaft extending through the casing and journalled and slidable in said wall and closure member, said shaft at the end adjacent said closure member forming a socket for an auger or the like, a shaft non-axially movable relatively to and journalled in said casing concentric with and rotatable independently of the first shaft, means to drive the second shaft controlled through movement



of the first-mentioned shaft relatively to the second-mentioned shaft, clutch means between said shafts, and means extending within the first shaft operable to control said clutch means.

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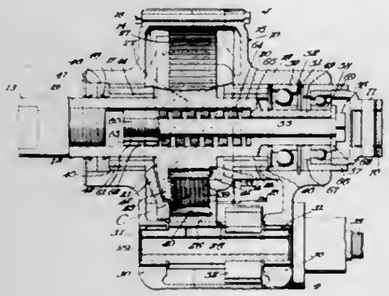
**2,646,145**
**ELECTROMAGNETIC CLUTCH AND BRAKE DEVICE**
**David Stanley Durston, London, England, assignor of one-half to Samuel Williams & Sons Limited, London, England**
**Application September 1, 1949, Serial No. 113,549**
**In Great Britain September 6, 1948**
**7 Claims. (Cl. 192—18)**



1. A high speed friction clutch and brake mechanism comprising driving and driven shafts, armature means secured to said driven shaft for rotation therewith and in part movable at right angles to the direction of rotation thereof, a first polarizing permanent magnet circuit mounted on said driving shaft for rotation therewith and comprising an energizing portion and a paramagnetic return flux path terminating in juxtaposition to said armature in spaced relation to each other, a fixed support, a second polarizing permanent magnet circuit mounted on said support and comprising an energizing portion and a paramagnetic return flux path terminating in juxtaposition to said armature in spaced relation to each other and in position to attract the movable part of the armature away from said first magnetic circuit, and a fixedly positioned electromagnet having a core the ends of which are disposed on opposite sides of said armature and juxtaposed respectively to said paramagnetic re-

turn paths, whereby the energizing of said coil to produce flux in said core augments the effective flux of one of said return paths and reduces that of the other to effect movement of the movable parts of said armature in clutching and braking directions depending on the polarity of the flux produced in said core.

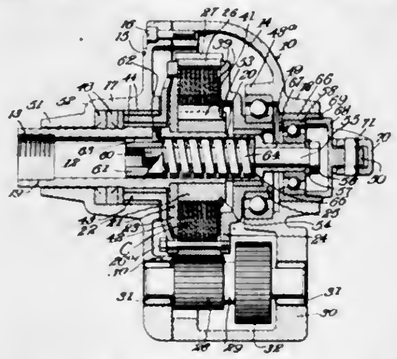
**2,646,146**
**CLUTCH FOR DRILL HEADS**
**Andrew B. Crichton, Jr., Johnstown, Pa., and Carl G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa., a corporation of Delaware**
**Application April 19, 1948, Serial No. 21,894**
**18 Claims. (Cl. 192—20)**



1. Apparatus of the class described comprising separable sections forming a casing, each section having an outwardly extending hub integral therewith, a hollow tool operating shaft having portions journaled and slidable in said sections, a gear concentric with and enlarged with respect to said shaft and enclosed by said sections, means to drive said gear, said gear being hollow and having a hub journaling one of said portions and in turn journaled in one of the first-mentioned hubs, a clutch head on said shaft opposite to the inner lateral wall of said gear, friction clutch means in said gear coacting with said wall and clutch head, a plate overlapping said clutch head and open face of said gear, a hub on said clutch plate disposed between the other shaft portion and the other of the first-mentioned hubs in which the latter shaft portion is journaled, and mechanism connected interiorly of said shaft operable to slide the shaft to apply the clutch parts.

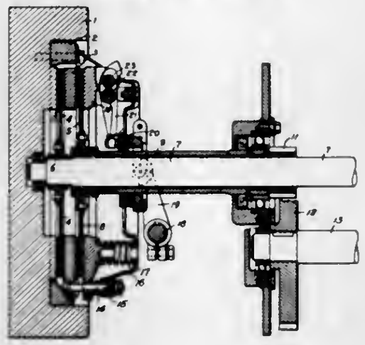
**2,646,147**
**CLUTCH FOR DRILL HEADS**
**Andrew B. Crichton, Jr., Johnstown, Pa., and Carl G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa., a corporation of Delaware**
**Application October 11, 1948, Serial No. 53,903**
**6 Claims. (Cl. 192—20)**

1. An apparatus of the class described having a casing, a tool operating shaft rotatably and slidably mounted in said casing, a gear journaled in said casing, means to drive said gear, a bearing device in said casing to take the thrust imposed on said gear in operation, clutch means within the casing between said gear and shaft controlled through the sliding of said shaft, one wall of said casing having an inwardly extending ring flange and an outwardly extending hub, said bearing device being mounted in said flange, said wall having a shoulder within and inwardly of said flange abutted by said bearing device, and mechanism operable exteriorly of the cas-



ing to apply the clutch parts including an element slidable in said hub.

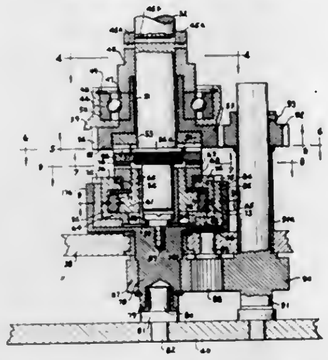
**2,646,148**
**CLUTCH ENABLING SIMULTANEOUS AND/OR SELECTIVE CONTROL OF MORE THAN ONE DRIVEN SHAFT**
**Louis Matrot, Noyers St. Martin, France**
**Application March 24, 1950, Serial No. 151,566**
**In France March 24, 1949**
**9 Claims. (Cl. 192—48)**



1. In a clutch mechanism of the type described in combination a drive member, a first and a second driven member, a first and a second clutch plate rotatable with but axially slidable with respect to said drive member, a first clutch disc rotatable with but axially slidable with respect to said first driven member interposed between said drive member and a clutch face of said first plate and a second clutch disc rotatable with but slidable with respect to said second driven member interposed between the opposite clutch face of said first plate and a clutch face of said second plate, first spring means urging said plates into engagement against each other to clamp said second disc therebetween and second spring means urging both plates with the said second disc clamped therebetween bodily against said first disc and said drive member, declutching means adapted to move said second plate axially against the action of said second spring means and means arresting the axial movement of said first plate after a limited amount of axial displacement, whereby actuation of said de-clutching means will first move both plates with said second disc clamped therebetween bodily to a position in which only said second driven member is driven and will thereafter move only said second plate to a position in which neither of said driven members is driven.



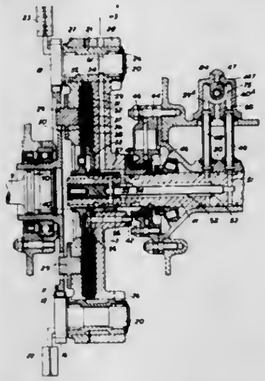
**2,646,149**
**TORQUE LIMITING DRIVE FOR MUTIPLE DRILL AND TAPPING HEADS**
**Theodore G. Linderme, Detroit, Mich.**
**Application February 10, 1951, Serial No. 210,341**
**3 Claims. (Cl. 192—48)**



1. In a mechanism of the class described a rotating shaft; a cone housing; a plurality of shoes positioned in said housing and movable outwardly into engagement with the inner surface thereof; a cam plate rotatable in unison with said shaft and positioned in said cone housing; rollers engageable with the periphery of said cam plate and adapted upon rotation of said cam plate, for moving said shoes outwardly into frictional engagement with said housing; a torque plate embracing said shaft and having notches formed therein; a projection extending outwardly from each of said shoes engaging in said notches; a boss mounted on said torque plate; a threaded member threaded through said boss and projecting outwardly from one side thereof, the extent of projection being adjustable upon threading of said threaded member in said boss and an engagement member carried by and rotatable in unison with said shaft for engaging said threaded member upon relative movement of said cam plate and said shoes beyond a predetermined distance.

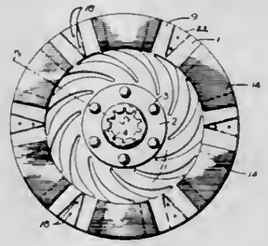
**2,646,150**
**TORQUE AND SPEED RESPONSIVE FLUID CLUTCH**
**Howard Frederick Hobbs, Leamington Spa, England, assignor to Hobbs Transmission Limited, Leamington Spa, England, a British company**
**Application September 27, 1949, Serial No. 118,146**
**In Great Britain September 28, 1948**
**12 Claims. (Cl. 192—85)**

1. A power transmission apparatus having an input clutch, said clutch including an input member, input and output friction parts, fluid pressure actuated means for effecting engagement between said input and output friction parts, and a rotary member carrying said input friction part, a set of devices connecting said input member and rotary member together flexibly, said devices comprising at least one centrifugally acting weight pivotally carried by one of said members, and relatively movable connecting means connecting said weight to the other of said members, the relative movement of said members causing the weight to move towards and away from its outermost position thereby acting respectively with and against the centrifugal force on the weight to provide resilience between said input member and rotary member, means for providing supply and exhaust of fluid pressure to and from said



clutch, control means for controlling said supply and exhaust, and an operative connection between one of said members and said control means whereby said relative movements operate the control means for engaging and disengaging said clutch.

**2,646,151**
**CLUTCH PLATE**
**Samuel K. Wellman, Cleveland Heights, and Francis J. Lowey, Olmstead Falls, Ohio, assignors to The S. K. Wellman Company, Cleveland, Ohio, a corporation of Ohio**
**Application August 9, 1947, Serial No. 767,706**
**8 Claims. (Cl. 192—107)**

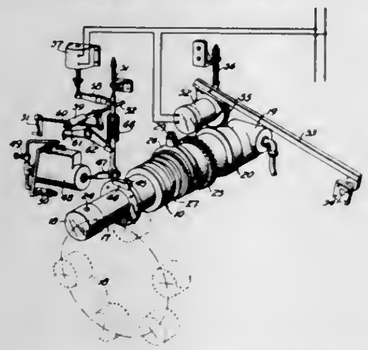


1. A substantially flat clutch plate comprising a carrier plate having a flat center portion carrying a hub and having a circumferentially continuous peripheral portion joined to the center portion by an even number of spiral spokes, a plurality of friction segments having stiff metallic backing plates engaged at their centers with the peripheral portion on opposite sides thereof, the segments on each side being in spaced position and staggered peripherally with respect to the segments on the other side, the engaged surfaces of the peripheral portion and each segment being of such shape as to be in contact in a flat area at the center of the segment, and the peripheral portion and each segment being increasingly spaced apart axially progressively toward the radial edges of the segment when the plate is not compressed, thereby forming spring portions between adjacent pairs of said flat areas, each said area extending radially across the peripheral portion of the plate and having radial edges

which converge towards the center of the plate with adjacent opposed edges of each pair of adjacent areas being parallel so that compression of the plate uniformly stresses the spring portions, and each spoke joining said peripheral portion midway between adjacent edges of adjacent areas.

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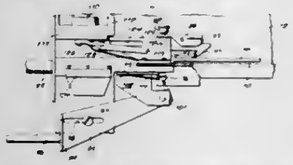
2,646,152
**STOP DEVICE FOR CHUCKING MEANS**
**William B. Retz, Plainville, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut**
**Application July 29, 1948, Serial No. 41,298**
**7 Claims. (Cl. 192—149)**



1. In a machine of the character indicated, a spindle carrier including a plurality of spindles, drive means including a clutch for each of said spindles, indexing means for said carrier, locating means on each of said spindles for identifying a particular angular orientation of each of said spindles, clutch-actuating means including a relatively fixedly based part and oriented to actuate one spindle clutch to the exclusion of another spindle clutch during an indexing movement of said spindle carrier, whereby the drive to one of said spindles may be disengaged during an indexing of said spindle carrier, and means operatively associated with said locating means on the spindle at said indexed position, said last-defined means including braking means relatively fixedly associated with the frame of said machine, whereby when a spindle is indexed into said position it may always be brought to a stop at a given orientation relative to said machine, upon a minimum lapse of time after the disengaged spindle reaches said indexed position.

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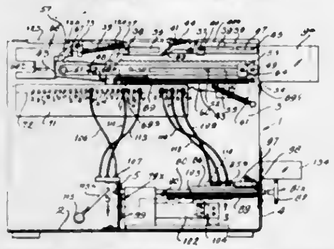
2,646,153
**VENDING MACHINE MECHANISM**
**Samuel L. Schlanger, Brooklyn, N. Y.**
**Application December 23, 1948, Serial No. 66,909**
**2 Claims. (Cl. 194—57)**



1. A vending machine mechanism comprising a frame, a coin slide mounted thereon for reciprocating travel and having a coin opening for receiving plural coins in superimposed relation, an abutment carried by the slide, a hook-shaped latch normally spaced from the abutment to limit travel of the slide and removable pins successively carried by the latch arranged to be contacted by the upper coin to move the latch to release the slide, the length of the pin determining the number of coins required to release the latch, a hinged plate below the slide forming a support for the lower coin, a push-rod operatively connected with said plate to rotate the same to return the coin thereon before travel of the slide, and a stop carried by the slide arranged to lock the plate during travel of the slide.

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2,646,154
**COIN CONTROL DEVICE**
**Jules A. Fremon, St. Louis, Mo.**
**Application November 16, 1946, Serial No. 710,392**
**22 Claims. (Cl. 194—57)**



1. A device of the kind described including an electric circuit, with a switch, for controlling a vending mechanism or the like, two series of electric terminals, all of said terminals being insulated from each other, a pair of current conductors forming part of the circuit, one of said conductors being attachable at one end to any one of the terminals of one of said series, the other of said conductors being attachable at one end to any one of the terminals in the other series, the other ends of said conductors being attached to the poles of the circuit switch, a conductor with two contacts, each movable relative to the other and along the terminals of a respective series, and members movable respectively different distances by coins of different denominations deposited in the device, said members moving the contacts of the latter-mentioned conductor along the corresponding series of terminals according to the denomination of the coins deposited.

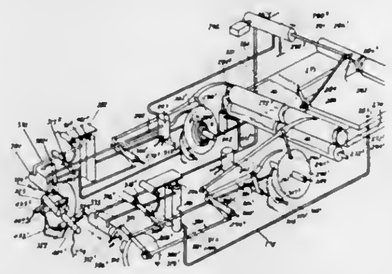
7. In a device of the class described, a driver member, a pair of credit accumulators, means actuated by the use of a coin of unit denomination for operatively connecting said member to one of said accumulators and moving the same relative to the other accumulator, structure for operatively connecting said accumulator to the other accumulator when a pre-determined number of operations of the first-mentioned accumulator effects a maximum movement thereof, and means for operatively connecting said member to the latter-mentioned accumulator actuated by the use of a coin of multi-unit denomination.

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2,646,155
**CORRECTING DEVICE FOR PRINTING APPARATUS**
**Maurice Henri Cardon, Paris, France**
**Original application July 25, 1946, Serial No. 686,112. Divided and this application August 4, 1947, Serial No. 766,023. In France July 31, 1945**
**2 Claims. (Cl. 197—20)**

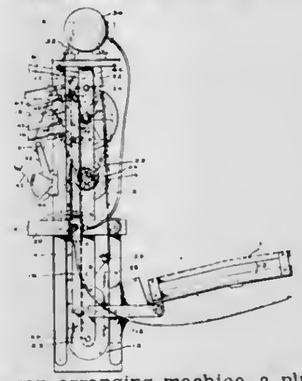
1. In a printing device, a first strip for registering the text to be printed termed a normal strip, a limit signal preceding each line in the normal strip, a second strip for registration termed the correcting strip constituted independently from the first named strip and comprising the corrections to be applied to the original text registered on the normal strip, said second correcting strip comprising as correcting lines the limit signals corresponding to each limit signal of the normal strip, only for the lines of this strip which are to be corrected, and registration signals only for the lines being corrected, this correction capable of being totally different in the number of lines and containing the lines for correcting the original text registered on the first strip, so that if the number of lines in the corrected text is equal to the number of lines in the normal text the registration signals of each line are inserted by means of the limit signal and if the number of lines in the corrected text is less than the number of lines in the normal text, the registration signals of the corrected lines are inserted by means of the limit signals, the limit signals corresponding to the corrected lines of the original text which do not have their equivalent in the corrected text, being followed for each one of these lines by a correction signal and a blank space constituted by a single division without signal, whereas if the number of corrected lines is greater than the number corresponding to the lines in the normal text, the limit





signals are inserted on the correcting strip for each line of text to be corrected from the normal strip, the two final limit signals inserting the entire supplement of the corrected text with respect to the original text, this supplement being equivalent to many of the lines of the composition, the division in the lines of the composition in the supplementary text being assured by signals which are termed interline spacing and justification signals and which are placed in suitable locations, a correction signal behind each limit signal of the correcting strip, driving means for advancing the correcting strip by one division when the limit signal is simultaneously presented by the normal strip and the correcting strip, driving means for unrolling the normal strip only during the interval when the limit signal of the correcting strip is followed by a blank without signal, driving means for unrolling the correcting strip up to the next limit signal when a limit signal is followed by a correcting signal, means to assure the unrolling of the normal strip simultaneously with the correcting strip and to render ineffective the action of the registering signals on the normal strip, an impression device, a justification device, and means operating the impression device and the justification device from the registering signals of the normal strip or the correcting strip, following the selection operated by the aforesaid means.

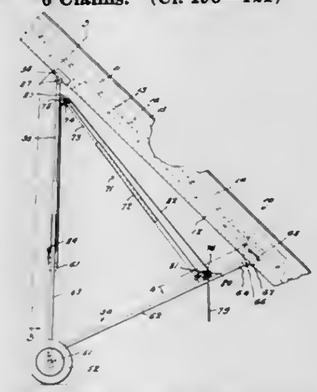
2,646,156
**ELEVATOR DIVIDER**
**Clifford H. Neer, Baltimore, Md., assignor to Burt Machine Company, Inc., Baltimore, Md., a corporation of Maryland**
**Original application September 24, 1945, Serial No. 618,278. Divided and this application August 2, 1948, Serial No. 42,040**
**9 Claims. (Cl. 198—31)**



1. In a can arranging machine, a plurality of inclined ways for the rolling of cans thereon superimposed at their upper ends, a distributor adjacent the said upper ends of said ways, means to feed a continuous line of cans to said distributor, said distributor comprising guides, a power driven conveyor having flights thereon, each flight receiving a can from said means, said conveyor cooperating with said guides carrying a can to adjacent the upper ends of each of said ways and means in said distributor to periodically discharge adjacent cans from said conveyor to different ones of said inclined ways, certain of said discharge means comprising a continuously rotating pusher timed to contact and push its respective can from said conveyor to the adjacent inclined way.

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2,646,157
**DOLLY FRAME FOR MATERIAL-CONVEYING ELEVATORS**
**Vernon C. Belt, Orient, Ohio, assignor to The Belt Corporation, Orient, Ohio, a corporation of Ohio**
**Application February 26, 1951, Serial No. 212,804**
**6 Claims. (Cl. 198—121)**

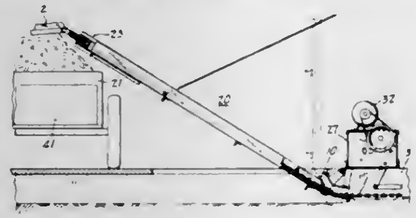


4. An adjustable dolly frame for material-handling elevators, comprising a wheeled axle,

base-forming frame members pivotally united at the rear ends thereof with said axle for turning movement about a substantially horizontal axis, means pivotally uniting the forward ends of said base-forming frame members with the frame of an associated elevator, said dolly frame further including rearwardly disposed altitudinal frame members, said latter frame members having their lower ends pivotally connected with said axle for turning movement about said horizontal axis, said altitudinal frame members being formed centrally and upwardly thereof with an elongated bearing opening constituting a socket, a boom member longitudinally movable in said socket, the upper and lower ends of said boom member projecting above and below said socket, a saddle carried by the upper end of said boom member, said saddle having longitudinally movable supporting engagement with the frame of the associated elevator, a cable guide carried by the lower end of said boom member, telescopic hynotenusal tubes constituting a part of the dolly frame, means pivotally uniting the forward and lower ends of said tubes to the forward end of the base-forming frame members, means pivotally connecting the rear ends of the hypotenusal tubes to said boom member, a cable, anchoring means for securing one end of said cable to said altitudinal frame members with intermediate portions of the cable passing over said guide, manually operated spooling means rotatably carried by the base-forming frame members contiguous to the forward ends of the latter, a second guide for said cable formed at the pivotal juncture of the boom member and hypotenusal tubes and about which said cable is trained and forwardly directed to said spooling means, and means for retaining said spooling means against accidental rotation.

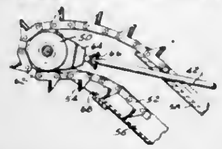
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**2,646,158**
**BARN CLEANER**
**Fred W. Vodoz, Wilmette, Ill.**
**Application August 18, 1947, Serial No. 769,296**
**8 Claims. (Cl. 198—170)**



1. A non-portable cleaner for removing manure and waste from the gutter of a dairy barn floor, comprising a single endless coil chain disposed to travel in one portion of its course along the bottom of the gutter, a plurality of spaced impellers each pivotally secured to at least two spaced corresponding links of said chain and adapted to extend substantially transversely of the gutter and across the bottom thereof, said chain and impellers constituting a conveyor system having an unloading station at one location in its course of travel, the pivotal connection between each said impeller and said chain having an axis parallel to the longitudinal course of said chain to provide for downward tilting of the impeller at the unloading station, means preventing upward tilting of the impellers in the gutter to effect scraping of the bottom of the gutter by the impellers, and means to drive the chain to effect cleaning of the gutter.

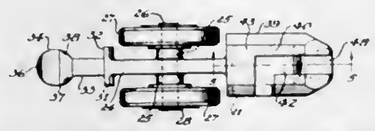
**2,646,159**
**SELF-CLEANING CONVEYER**
**George M. Jones, Salt Lake City, Utah**
**Application July 23, 1951, Serial No. 238,059**
**3 Claims. (Cl. 198—174)**



1. A self-cleaning conveyor of the link belt and blade type, comprising a framework including a channel, a link belt movable through said channel to carry material therealong, blades carried by said belt to discharge material from one end of said channel, and sprocket wheels carrying said link belt, one of said sprocket wheels being displaced laterally from the longitudinal center line of said framework to draw said blades against the end of said channel and thereby to produce a flipping of said blades to discharge material therefrom.

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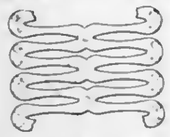
**2,646,160**
**UNIVERSAL LINK CONVEYER CHAIN**
**Edward N. Michna, Chicago, Ill.**
**Application November 7, 1949, Serial No. 125,861**
**7 Claims. (Cl. 198—189)**



1. In a universal roller link for use in conveyor chains and the like comprising an elongated shank; an arm carried on one end of said shank; a coupling element carried on one end of said arm and including a ball-like portion and a locking element; a pair of wheels journalled intermediate said link; a slotted housing carried at the other end of said shank and having side and end openings connected by the slot in said housing, said housing having therein a chamber communicated with said slot and said openings; said housing having an inwardly extending flange and an adjacent ball seat for operatively engaging, respectively, a locking element and a ball-like element of an identical adjacent link; and a boss carried on said link between said arm and said shank for limiting the movement of said link.

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**2,646,161**
**TRANSVERSELY SLOTTED METAL BELT FOR CONVEYING AND GUIDING STRIP TRAVELING AT HIGH SPEED**
**Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application September 29, 1950, Serial No. 187,542**
**6 Claims. (Cl. 198—193)**

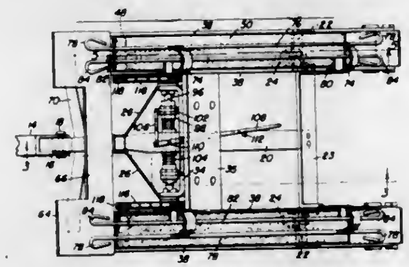


1. A conveying and guiding belt comprising a plurality of superposed endless flat metal bands, each band having transverse slots extending inwardly from each edge thereof and terminating short of the other edge, isolated spacer means between adjacent bands of less area than the latter causing them to stand apart throughout the greater portion of their area and spot welds spaced longitudinally and transversely of said bands uniting them into a unitary belt.



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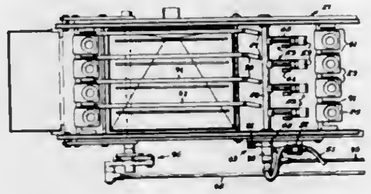
**2,646,162**
**LOADING MACHINE FOR PARTIALLY FILLED BAGS**
**Erick G. Brunsvold, Hatton, N. Dak.**
**Application December 13, 1950, Serial No. 200,646**
**3 Claims. (Cl. 198—204)**



3. A trailer type loading machine for elevating partially filled bags having gathered but unsecured tops comprising a wheel supported frame, a rearwardly and downwardly inclined table mounted on said frame, an endless conveyor, the top flight of said conveyor traveling upwardly over said table, upstanding guard plates adjacent the sides of said table, straps rigidly secured in spaced apart relation on one of said guard plates, offset resilient down turned ends on said straps, a rail mounted on the ends of said straps, brackets secured to intermediate portions of said straps, a rail mounted on said brackets, said rails being in spaced parallel relation to the top flight of said conveyor, said rails being adapted to frictionally embrace the gathered tops of bags carried by said conveyor.

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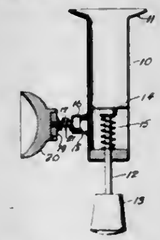
**2,646,163**
**DUMPING AND WASHING MECHANISM FOR EGG SEPARATING CUPS**
**Lawrence M. Sigler, Washington, D. C.**
**Application November 25, 1949, Serial No. 129,288**
**17 Claims. (Cl. 198—229)**



1. In a machine of the class described, an endless conveyor, means for driving said conveyor, a plurality of cupped trays supported on said conveyor for movement therewith, hinge means for each tray located upon an axis transverse to the line of movement of said conveyor, fixed relative to said conveyor and supporting its tray for free oscillation about said axis, and latch means for each tray normally cooperating with said hinge means to hold such tray in a predetermined position relative to said conveyor, the center of gravity of each tray being located to the rear of its hinge axis but closer to a vertical plane including such axis than to the trailing end of such tray.

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**2,646,164**
**DEVICE FOR EJECTING CIGAR AND CIGARETTE BUTTS AND ASHES FROM AUTOMOBILES**
**Morris Mermelstein, Schodack Center, N. Y.**
**Application May 15, 1951, Serial No. 226,516**
**1 Claim. (Cl. 206—19.5)**



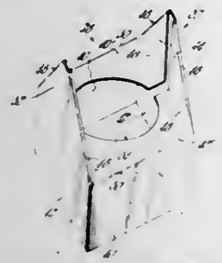
A device of the character described, for use on a draft window of an automobile, for removing cigar, cigarette and ash materials therefrom, comprising an elongated container, open at one end for receiving and holding a substantial quantity of said materials; a reciprocable false bottom spaced inwardly from the closed bottom end of said container; a plunger shaft secured to said false bottom at one end, and extending through said closed bottom coaxially of the longitudinal axis of said container and terminating in a gripping member at its free end exterior of said casing the length of the plunger shaft from the false bottom to the gripping member being equal to at least one half of the interior height of the container; a coil spring surrounding the shaft within the container between said closed bottom and said false bottom normally urging the latter outwardly, whereby compression of said spring by manual retraction and sudden release of said shaft will forcibly eject said materials from said container; means adapted removably to secure said container to said draft window; and means pivotally connecting said container to said last named means in a manner such that said container can be rotated in a plane parallel to said window through an arc from a substantially vertical to a substantially horizontal position and remain so positioned for reciprocation of said plunger.

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**2,646,165**
**PACKAGING MEANS**
**Earl B. Whitehead, Norwich, Conn., assignor to Atlantic Carton Corporation, Norwich, Conn., a corporation of New York**
**Application November 30, 1951, Serial No. 259,145**
**1 Claim. (Cl. 206—46)**

A collar for spacing the upper body region and shoulder thereabove and upper reduced neck of a Thermos bottle from adjacent and opposite side walls and end closure of a carton comprising, a sheet of relatively stiff material formed to have connected together vertically disposed opposite and adjacent side and end walls for engaging the side and end walls of a carton, upper portions of said side walls being turned inwardly intermediate upper and lower ends thereof and towards one another providing coplanar horizontally disposed shelves with inner unconnected edges thereof in adjacency, upper portions of

each said end wall at opposite vertical sides thereof above and connected to said shelves being turned inwardly onto said end walls on lines converging upwardly and inwardly from outer opposite ends of said shelves and the jointure of said side and end walls providing



double thickness ears of inverted V shape extending upwardly from said shelves and having upper points disposed above said shelves for engaging the end closure of a carton, and said shelves provided with cut-outs on inner adjacent edges thereof cooperating to provide an opening for receiving the neck portion of a bottle.

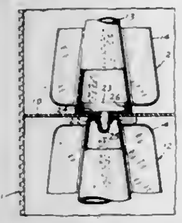
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2,646,166

## CARTON FOR YARN PACKAGES

Fred W. Paffen, Great Neck, N. Y., and Edward M. Engel, Bergenfield, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

Application August 25, 1949, Serial No. 112,358
2 Claims. (Cl. 206—65)



1. In a carton for storing and shipping superposed layers of yarn packages having conical cores, the combination with apertured shelves, of an organic derivative of cellulose, each adapted to support a layer of yarn packages, of fittings, of an organic derivative of cellulose, extending through the apertures in said shelves and being cemented thereto form an autogenous bond for engaging said yarn packages to prevent relative movement thereof, said fittings comprising a downwardly extending nipple for reception within the top of the conical core of the yarn package positioned on a shelf beneath the shelf having said fittings therein and, integral with said nipple, an upwardly extending inwardly-tapered, cup-shaped portion of greater diameter than said nipple for reception within the bottom of the conical core of a yarn package positioned on the shelf having the fittings therein.

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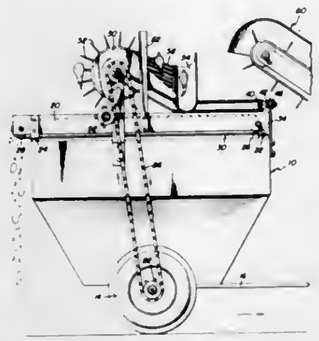
2,646,167

## BEET PICKER ATTACHMENT

Joseph Braiun, Pueblo, Colo.

Application March 21, 1950, Serial No. 150,999
7 Claims. (Cl. 209—109)

1. For use with a beet picker of the type having a receiving hopper provided with a wheeled support and an endless conveyor above the hopper, an attachment for selectively removing beets from the conveyor and depositing the same in the hopper comprising a substantially U-shaped member having a pair of legs connected by a web, means for swivelly connecting the web to the hopper, a drum journaled between the outer ends of the legs having a plurality of rows of radially extending and circumferentially spaced



pointed projections, each of said rows of projections being axially spaced, an inverted V-shaped trough carried by said legs and adapted to straddle the conveyor belt for depositing beets into the hopper, a plurality of upwardly extending rods carried by the trough each of which extends into closely spaced relation with the periphery of the drum and into the spaces between the rows of projections.

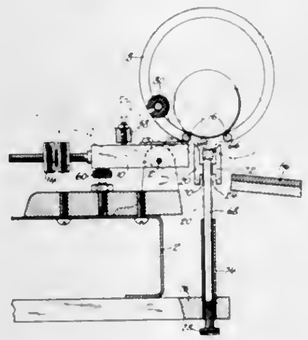
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2,646,168

## DISCHARGE DEVICE FOR WEIGHING MECHANISM

Otto C. Niederer, Herbert O. Niederer, and Otto Niederer, Titusville, N. J.

Application December 3, 1947, Serial No. 789,542
4 Claims. (Cl. 209—121)



1. A weighing device comprising a balance beam, a support about which said balance beam is movable, article supporting means carried by said balance beam and including spaced rails located near one end of the balance beam, means for holding said balance beam and article supporting means in a predetermined neutral position preparatory to a weighing operation, article discharging means held in a predetermined position between and below the rails of said article supporting means when the latter is in said neutral position and at a point in the path of movement of said rails during a weighing operation such that the discharging means will project between the rails and displace an article supported thereby when the balance beam is tilted, and means positioned above said rails and between the latter and said pivot to prevent an article displaced by the discharging means from moving toward said pivot.

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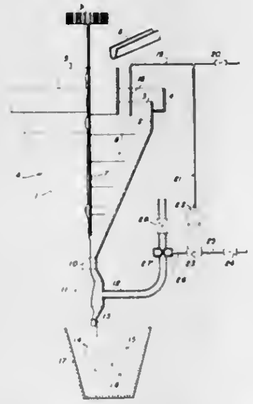


2,646,169

## PROCESS AND APPARATUS FOR THE SEPARATION OF MATERIALS OF DIFFERENT SPECIFIC GRAVITY AND SIZES

Willem C. Fox, Brunssum, and Jan N. J. Leeman, Hoensbroek, Netherlands, assignors to Stamicarbon N. V., Heerlen, Netherlands

Application October 11, 1948, Serial No. 53,938
In Great Britain October 11, 1947
8 Claims. (Cl. 209—173)



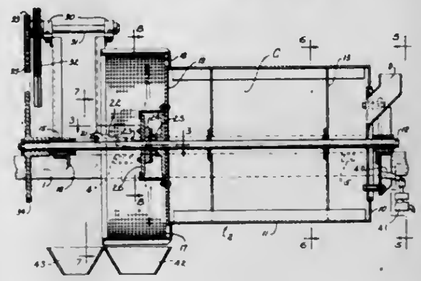
1. In the separation of materials of different specific gravity and sizes utilizing a process of the type in which the materials to be separated are delivered into a substantially conical vessel containing an unstable suspension of fine heavy particles in a liquid wherein at least part of said particles are maintained in teeter in a separation zone by generating an upward current throughout said vessel and wherein discharge of the float of said zone together with overflowing liquid occurs from the top of the vessel and the sink of said zone occurs from the apex aperture of said vessel by reason of directing a stream of liquid at a variable velocity into said vessel through the apex aperture thereof to adjust the conditions of the suspension in said vessel, the improvement of varying the velocity of the variable stream of liquid in dependency on the specific gravity of the suspension in the separation zone by arranging the stream through the apex aperture to proceed into a discharge chamber into which a stream of surplus liquid is directed and from which a stream of liquid and sink materials continuously flows out, the process being characterized by arranging the stream of liquid and sink materials to flow out of the discharge chamber tangentially into a circular path from which path it is discharged axially to create an outflow resistance which changes in dependency with changes in the specific gravity in the separation zone to assist the action of the variable input stream of surplus liquid.

2,646,170

## APPARATUS TO SEPARATE COTTONSEED FROM A NEUTRALIZING AGENT

Robert L. Jackson, Lubbock, Tex.

Application September 11, 1948, Serial No. 48,895
2 Claims. (Cl. 209—284)



1. An apparatus for treating delinted cottonseed comprising a frame, bearings mounted on said frame, a shaft journaled in said bearings, means for rotating said shaft, spokes secured to said shaft and radiating outwardly therefrom, a container connected to and mounted on said spokes to be supported thereby with respect to said shaft, said container having an opening formed in each end thereof, one of said openings being substantially closed by a plate member, said plate member having an inlet opening formed therein, a slidable plate mounted for closing the opening in the opposite end of said container when in one position, operating means connected to said slidable plate exterior of said shaft and extending outwardly therealong for moving said slidable plate member so said opening may be closed by said slidable plate member while said container is rotating, said operating means being journaled on said shaft near an end of said container, a cylindrical screen member of larger diameter than the diameter of said container secured to and surrounding an end of said container so as to form an enlarged spokeless chamber, said opening in said container being adapted to discharge cottonseed into said screen chamber when said slidable plate is in open position.

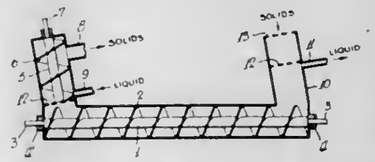
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2,646,171

## PROCESS FOR SEPARATION AND RECOVERY OF COMPONENTS OF A SOLUTION

John M. Weiss, New York, N. Y., assignor to John M. Weiss and Co., New York, N. Y.

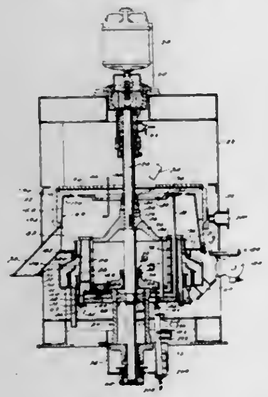
Application June 14, 1949, Serial No. 99,006
12 Claims. (Cl. 210—42.5)




1. A cyclic process of separating a component of a mixture of at least two adsorbable compounds contained in a solution, comprising mechanically advancing a mass of solid adsorbent which will adsorb said compounds preferentially, passing said solution continuously countercurrent to and in contact with said mass, removing adsorbent

saturated substantially only with the desired compound from contact with the entering solution, continuously introducing an amount of fresh adsorbent substantially equal to that removed from the cycle into contact with the solution leaving the cycle, and regulating the absolute and relative rates of flow of the solution and adsorbent so that the solution leaving the cycle is substantially exhausted of the desired compound.

**2,646,172**
**CENTRIFUGAL SEPARATOR**
**Bradley G. Cox, Saginaw, and Thomas Evans, Tuscola, Mich., assignors to Baker Perkins Inc., Saginaw, Mich., a corporation of New York**
**Application September 19, 1947, Serial No. 774,970**
**27 Claims. (Cl. 210—67)**



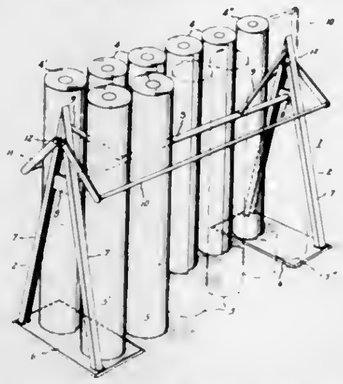
26. In a centrifuging apparatus, a rotatably driven centrifuge basket having a bottom, a stripper fitting snugly within the basket, means for effecting relative axial movement between the stripper and the basket, and means for flushing between the stripper and the bottom of the basket including a liquid-supply pipe for directing liquid against the exterior side of the bottom of the basket, and means carried by the basket for collecting liquid impinged thereagainst and defining a passage through which liquid is discharged into the space between the bottom and said stripper.

**2,646,173**

WITHDRAWN

**2,646,174**
**SAFETY STAND FOR LINOLEUM ROLLS**
**Maxwell W. Hutten and Frank S. Mone, Schenectady, N. Y.**
**Application September 7, 1950, Serial No. 183,644**
**6 Claims. (Cl. 211—44)**

1. A safety and display stand for upright linoleum rolls supported on a store floor in two parallel rows comprising an elongated open frame structure including a pair of side members interconnected at their upper end portions by a beam extending lengthwise of the stand and adapted to have a plurality of said linoleum rolls placed on each side alongside of it, said side members having their planes extending crosswise of said stand, each of said side members being mounted on a horizontal base plate extending both lengthwise and crosswise of said stand and of a size sufficient to receive a pair of rolls of linoleum in upright position, one roll on each side of said beam, whereby the weight of the rolls placed on said base plates will counteract tilting forces exerted by linoleum rolls falling or leaning from either side against said beam, or leaning against said side members, said



stand being adapted to receive additional retaining means to prevent tilting of the linoleum rolls in a direction away from said beam, and said base plates being substantially flush with said store floor so as to allow said pairs of rolls to be placed on said base plates by a sliding motion.

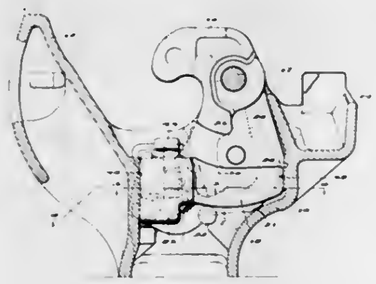
**2,646,175**
**DISPLAY RACK SUPPORT**
**Max Beauvais and Guy Argyroglou Callias Bey, Paris, France, assignors to Ernest Woog, Lausanne, Switzerland**
**Application February 27, 1948, Serial No. 11,484**
**In France January 9, 1939**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires January 9, 1959**
**2 Claims. (Cl. 211—148)**



1. A display rack support of the character described including a base, a plurality of support elements and a cap so united as to form an interlocked column in which each of said support elements comprise, a first tubular piece having one end portion of reduced diameter and provided with a circumferential slot in its wall spaced from both its ends, and a second tubular piece telescopically mounted within said first tubular piece at said portion of reduced diameter, one of said tubular pieces having a radially extending pin affixed to its wall, the other of said tubular pieces having an inclined slot in its wall, said pin extending into said inclined slot, whereby said tubular pieces move axially with respect to each other upon relative rotation, one end of said second tubular piece terminating adjacent said circumferential slot in said first tubular piece, so that upon relative rotation of said tubular pieces the effective width of said circumferential slot is varied, the inside diameter of said first tubular piece being equal to the outside diameter of said portion of reduced diameter so that adjoining support elements may be telescopically interlocked.

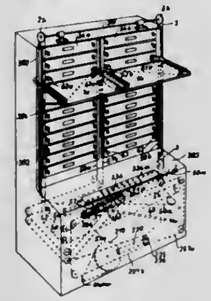


**2,646,176**
**COUPLER**
**Harry H. Wolfe, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio**
**Application March 17, 1949, Serial No. 81,893**
**5 Claims. (Cl. 213—144)**



1. In a railway car coupler, a coupler head, a knuckle swingably mounted on the coupler head, a rigid abutment surface on the coupler head at the knuckle side of the coupler, a tail portion on said knuckle adapted to engage said abutment surface in the closed position of the knuckle, a lock bearing face on the knuckle tail portion arranged in a substantially vertical plane, a flat inclined surface on the knuckle tail portion above and sloping away from an upper end of the lock bearing face at an angle of approximately twenty degrees, a second substantially flat surface on the knuckle tail portion above the first inclined surface merging with an upper end thereof and sloping away from the lock bearing face at an angle of approximately fifty degrees, a lock mounted for vertical movements in the coupler head, a knuckle bearing face on the lock arranged in a substantially vertical plane, an arcuate corner on the lock at the lower end of said knuckle bearing face, means supporting the lock on the knuckle tail portion when the knuckle is in open positions, guide means engaged by a knuckle side of the lock during movement of the knuckle towards the closed position, said guide means being so located that the arcuate corner of the lock moves into engagement with said first inclined surface when the knuckle tail portion engages said abutment surface, a wall at a guard arm side of the lock, and the horizontal distance between said abutment surface and said wall being not more than one thirty-second of an inch greater than similar horizontal collective dimensions of the knuckle tail portion and the lock.

**2,646,177**
**DEVICE FOR STORING AND CONVEYING CONTAINERS**
**Albert Nussbaum, Montigny-les-Metz, France, and Otto Alfred Becker, Saarbrucken, Germany; said Becker assignor to said Nussbaum**
**Application March 20, 1947, Serial No. 736,084**
**In Switzerland April 2, 1946**
**14 Claims. (Cl. 214—11)**



1. A device for storing and conveying containers of index cards and other articles, comprising in combination a carrier plate for the vertical transportation of the containers, a rope gear provided with fixed and movable guide rollers for driving the carrier plate in vertical direction, movable drivers being attached in pairs to horizontal guides on opposite sides of the carrier plate, an additional rope gear for propelling said movable drivers and being fixed to the underside of said carrier plate, both rope gears being operated by a common moving force, and movable control means for distributing the common moving force to the rope gears in such a manner, that one rope gear is stopped while the other is moving.

**2,646,178**
**TRANSPORTING APPARATUS**
**Nemesio F. Alvare, Philadelphia, Pa.**
**Application January 5, 1950, Serial No. 136,895**
**5 Claims. (Cl. 214—38)**

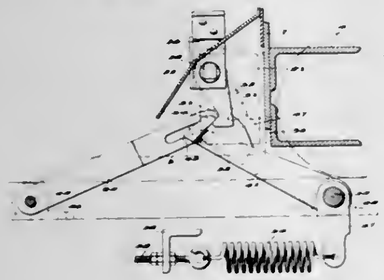


1. In transporting apparatus of the character described, a motor truck having a chassis with a series of transverse rollers arranged in a rearwardly-declining plane, and with a cable and reeling means for drawing skids from the ground onto the rollers; a trailer having a chassis likewise with a series of rollers and releasable means for coupling the truck to the trailer temporarily with the chassis of the latter in longitudinal alignment so that, upon being freed, the skid will roll by gravity from the truck onto the trailer, said means including a socket element affixed centrally of the rear of the truck chassis and having an inwardly tapering slot opening and a pair of coaxial apertures in its top and bottom, a forwardly extending tongue centrally of the forward end of the trailer chassis having a terminal eye and a tapered portion rearwardly of said eye to fit snugly into the opening of the socket element, and a locking pin insertable through the regis-

tered openings; means for arresting the skid after it has moved into position on the trailer; and supplemental means whereby after another skid is drawn onto the truck for pivotally coupling the trailer to the truck in preparation for transit including a spring-cushioned hook element centrally of the rear end of the truck chassis below the socket element for engagement by the terminal eye of the tongue on the trailer.

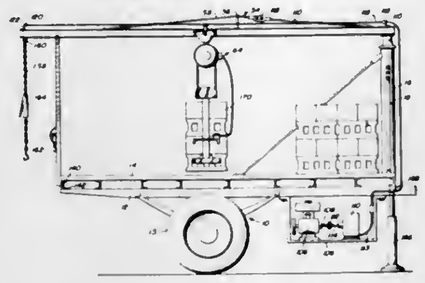
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**2,646,179**
**LATCH TRIPPING DEVICE**
**Hugh W. Sanford, Jr., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del., a corporation of Delaware**
**Application April 22, 1947, Serial No. 743,081**
**5 Claims. (Cl. 214—58)**



1. In conveying mechanism including a dumping conveyance mounted on a trackway and having a frame structure with transverse end portions and projecting portions therebetween, a drop bottom door mounted on the frame structure for opening movement relative thereto, latch means for holding the door closed and movable to release said door for dropping, a shaft connected with the latch means for moving the latch means to release the door, said shaft extending transversely of the conveyance and having an end portion thereof projecting externally of the frame structure, an operating member mounted on the projecting end portion of the shaft, said frame structure including a portion extending laterally of the conveyance in overlapping relation with the operating member and the projecting portion of the shaft and with said operating member and shaft disposed approximately above the lower edge of said projecting frame portion in protected positions, tripping mechanism mounted in the trackway in position laterally of the frame structure when the conveyance is in dumping position, means mounting said tripping mechanism for raising and lowering movements of the tripping mechanism relative to the operating member, said tripping mechanism being in position for engagement by the projecting portion therebetween of the conveyance to be depressed beneath said portion and for raising movement into engagement with the operating member at a point above the lower edge of said laterally extending portion of the frame structure, said tripping mechanism including a tripping member in position for engaging the operating member, a link, and a lever member connected with the tripping member and pivotally connected with the link and arranged in position for engagement by the laterally extending portion of the conveyance for lowering the tripping member during passage thereover of said laterally extending portion of the conveyance.

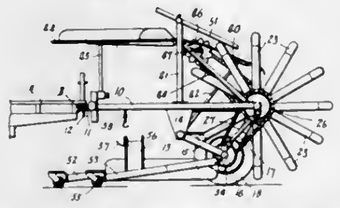
**2,646,180**
**CONCRETE BLOCK HANDLING DEVICE**
**Leon H. Schlough, Waite Park, and Wesley E. Schlough, St. Cloud, Minn., assignors to Northwest Concrete Products Co., St. Cloud, Minn., a corporation of Minnesota**
**Application November 10, 1949, Serial No. 126,558**
**4 Claims. (Cl. 214—75)**



4. In a material-handling apparatus for loading and unloading heavy articles on a flat bed truck, a vertical support mounted on the bed adjacent one end, an elongated rail member swingably mounted on the support for swinging movement in a horizontal plane overlying the bed, a roller carriage mounted on the rail member, hoisting means, prime mover means for operating said hoisting means, means for swivelly suspending the hoisting means from the carriage, means for locking the rail member on the bed, and means for operating said prime mover remotely therefrom and at said hoisting means, said locking means including a supporting frame in spaced relation to said vertical support, said supporting frame including a bar for receiving a free end of said rail, releasable clamp means carried by said support frame for clamping said rail to said bar.

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**2,646,181**
**BALE LOADING ATTACHMENT FOR VEHICLES**
**Charles W. Maxwell, Okato, Taranaki, New Zealand**
**Application July 7, 1950, Serial No. 172,402**
**In New Zealand July 21, 1949**
**3 Claims. (Cl. 214—355)**



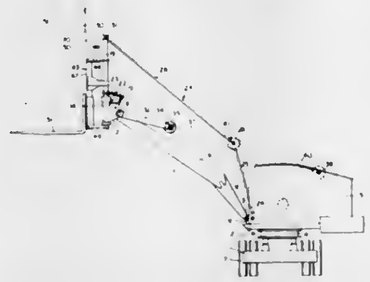
1. Bale loading attachment for vehicles, comprising a chassis frame adapted to be attached at its forward end to a vehicle and mounted at its rear end upon running wheels, a spindle fixed in the rear of the chassis frame to extend transversely thereacross and bent in its longitudinal line to cause its two ends to extend in angular relationship with each other, a hub mounted loosely upon each spindle end, a set of arms fixed to extend radially at intervals apart from each of the said hubs, said arms being of a length to clear the ground when the hubs to which they are fixed are rotated, means for flexibly locking



the two hubs in rotative engagement with each other so that those of one hub are respectively disposed opposite to those of the other hub, driving connection between one of the said hubs and one of the rear running wheels of the chassis, a platform supported upon the chassis at a distance above the said spindle disposed between the two sets of arms as they move in the upper portion of their rotation and means for rotatably connecting the two said hubs together which means comprise a coupling plate fastened to the inside of each hub and arranged to extend in and to overlap at its end with the inner end of the plate of the other hub, each of said plates being formed with a longitudinally extending slot at its inner end and a bolt passing through the slots of the two plates.

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**2,646,182**
**LOADING AND UNLOADING APPARATUS**
**Theodore J. Maas, Detroit, Mich., assignor, by mesne assignments, to The Thew Shovel Company, Lorain, Ohio, a corporation of Ohio**
**Application December 1, 1950, Serial No. 198,579**
**3 Claims. (Cl. 214—660)**



1. A load lifting apparatus comprising a boom, means for supporting said boom for vertical and horizontal movement of the free end thereof, a mast pivotally mounted at its lower end on the free end of the boom, linkage means for adjusting the pivoted position of the mast and holding the mast in a selected adjusted position regardless of the vertical and horizontal position of the free end of the boom, guide elements mounted on the mast substantially parallel thereto, a load lifting platform slidably mounted on the guide elements, means for raising said platform independently of the movement of the free end of the boom and means for swinging the guide elements about the longitudinal axis of the mast to provide horizontal swinging movement for the platform independently of movement of the free end of the boom.

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**2,646,183**
**CONTAINER CLOSURE**
**Fred G. Pellett, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio**
**Application September 8, 1950, Serial No. 183,766**
**1 Claim. (Cl. 215—40)**

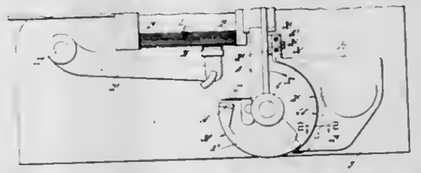
In combination, a container having an annular wall defining an opening and a sealing surface, a closure provided with engaging means, complementary means on the annular wall of the container for engaging the means on said closure, a liner positioned within said closure and comprising a cushion disk, a thin coating of wax constituting a continuous film coating formed on one side of the cushion disk, said coating comprising a mixture of petroleum wax and paraffin wax and having a thickness within the range of 0.0001 to 0.0003 of an inch, a membrane facing sheet positioned over said thin coating of wax and adhered to the disk by isolated areas of the wax coating to form a discontinuous bond between the disk and sheet, the degree of adhesion being only sufficient to hold the disk and sheet against accidental separation, and adhe-



sive means between said sheet and sealing surface securing said sheet to said sealing surface, the adhesive nature of said adhesive means being such that adhesion of the sheet to the said sealing surface is at least several times greater than the adhesion of the sheet to the disk by the wax, whereby when the closure is removed from the container the bond between the cushion disk and the membrane facing sheet is broken and the membrane facing sheet remains sealed to the sealing surface of the container.

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**2,646,184**
**LABEL MACHINE**
**Clarence Ouellette, Springfield, Mass., assignor to Wrap-King Corporation, West Springfield, Mass., a corporation of Massachusetts**
**Application November 30, 1951, Serial No. 259,255**
**1 Claim. (Cl. 216—55)**



Mechanism for heating softenable adhesive on labels comprising, a support, a drum rotatable relative to said support on a horizontal longitudinal axis having a label supporting cylindrical face concentrically related to said axis for carrying a label having heat softenable adhesive on an outermost side thereof, a heater secured to said support having an inner cylindrical heating surface arranged concentrically relative to said axis and so disposed relative to the face of said drum as to be spaced outwardly away from the outermost face of a label on said face, the heating surface of the heater provided with grooves thereabout of a certain transverse width and spaced longitudinally of the axis of rotation of the drum and extending into the heater and having relatively spaced sides and bottoms, and blades in the form of elongated arcuate strips of relatively greater width than thickness disposed in said

grooves having an end thereof secured to said support, the thickness of said blades being relatively less than the width of said grooves whereby outer sides thereof are out of contact with the sides of said grooves, outer edges of said blades being spaced away from the bottoms of said grooves with opposite inner edges thereof disposed beyond the inner surface of the heater toward the axis of the drum and adapted to be engaged by the outermost sides of labels on said drum to space said sides away from the heating surface.

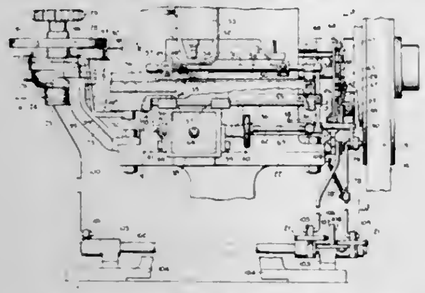
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2,646,185

**APPARATUS FOR ATTACHING AND SPACING FASTENER ELEMENTS ON SUPPORTS**

**Otto J. Huelster and Anthony F. D'Amico, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut**

**Application March 29, 1947, Serial No. 738,124**
**15 Claims. (Cl. 218—6)**



13. In machines for attaching fasteners to workpieces at spaced intervals in a successive series of automatic operations, a workpiece supporting table, means for clamping a workpiece on said table, means for automatically shifting the table to bring successive spaced sections of the workpiece in position for attachment of fasteners thereto in one directional movement of the table in the machine, and said table shifting means including means to then move the table in the opposite direction in attaching a second set of fasteners to the same or a second workpiece in the same spaced relationship as attachment of the first set of fasteners.

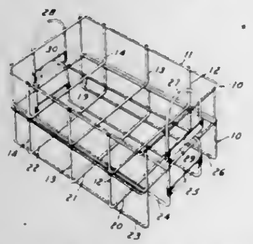
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2,646,186

**BASKET STRUCTURE WITH STACKING HANDLES**

**George L. Russell, Fair Haven, Mich.**

**Application December 12, 1949, Serial No. 132,441**
**19 Claims. (Cl. 220—19)**



1. A wire basket adapted to be stacked with a similar basket, comprising a wire frame, wire handles secured to opposite ends of said frame intermediate the sides thereof and projecting thereabove, said handles being curved inwardly and upwardly from a point immediately below the top of said frame and having downwardly extending laterally spaced portions forming end support wires for said frame, the lower ends of said end support wires being spaced apart to receive therebetween the portions of the curved handles immediately above the top of the frame of a lower basket located beneath the first mentioned basket, and end plates extending transversely between the outer surfaces of the lower portions of the end support wires at opposite ends of the basket and engageable with the outer surfaces of the handles of a lower basket to prevent relative longitudinal displacement.

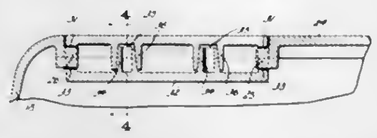
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2,646,187

**HINGE CONSTRUCTION FOR RECEPTACLES COMPOSED OF MOLDED PARTS**

**Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio**

**Application April 16, 1951, Serial No. 221,168**
**5 Claims. (Cl. 220—31)**



1. Hinge construction for molded plastic receptacles of the type having a body section formed with an entrance opening and a lid section for opening and closing said entrance opening, comprising: forwardly projecting longitudinally spaced tongues integrally formed with said body section and projecting forwardly from the rear longitudinal edge of said opening, pintle studs projecting longitudinally and integrally from said tongues, complemental pintle studs longitudinally aligned with and spaced from said tongue studs and projecting from the side walls of said opening, a plurality of relatively spaced hinge extensions integrally formed with and extending rearwardly from the rear edge of said lid section, said hinge extensions being formed with semicircular openings partially encircling said pintle studs, and separate plastic locking plates joined with each of said hinge extensions and formed with semicircular openings arranged in complemental relationship with the openings of said hinge extensions and encircling the remainder of said pintle studs, the semicircular openings of said hinge extensions permitting said hinge extensions to be initially engaged with said studs and the semicircular openings of said locking plates serving to close the openings of said hinge extensions around said studs when said locking plates are joined with said hinge extensions.

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2,646,188

**HINGE CONSTRUCTION**

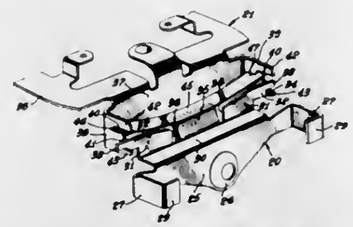
**Wilbert C. Buescher, Alhambra, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California**

**Application November 24, 1947, Serial No. 787,747**
**5 Claims. (Cl. 220—31)**

3. In combination: a base having slots therein; a housing adapted to be disposed in closed relation over said base; a first plate secured to said housing and having a pair of arms extending



at right angles of the ends of the plate, and in the same direction, each arm being provided with a shallow notch and a deep notch; a second plate having legs extending into said base slots, said second plate having a pair of oppositely directed fingers pivotally mounted in said shallow notches; a spring extending across said first plate,



the ends of said spring being received within said deep notches; means on said second plate cooperating with said spring to control relative movement between said plates; said housing extending across the open ends of said notches to retain said fingers and springs in their respective notches.

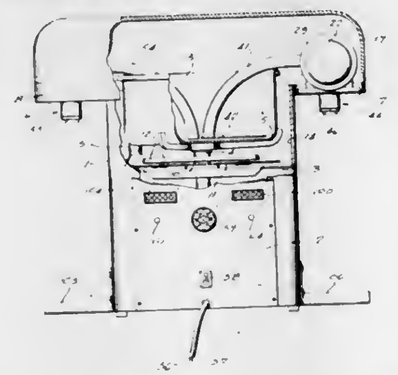
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2,646,189

**MELTING AND DISPENSING APPARATUS**

**Alfred W. Wickesberg, Milwaukee, Wis.**

**Application April 11, 1949, Serial No. 86,711**
**10 Claims. (Cl. 222—36)**



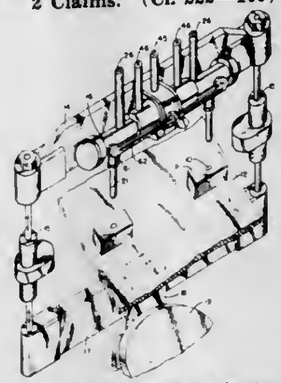
1. In a dispensing apparatus for meltable solids the combination comprising a heat retaining housing comprising a bottom surrounded by vertically extending walls, an overhanging shelf extending laterally from said vertical walls at one side thereof near the top thereof and a removable cover extending across and covering the upper opening of said vertical walls and said laterally extending shelf; heating means on the bottom of said housing; a removable melting pan within said housing above said heating means; and fluid discharging means including pump means mounted on said laterally extending shelf, an inlet pipe extending therefrom into said melting pan, and a discharge conduit extending from said pump downwardly through said laterally extending shelf to the exterior of said housing, said inlet pipe, pump and a substantial portion of said discharge conduit being included within said housing and exposed to heat admitted by said heating means to prevent solidification of meltable solids contained therein.

2,646,190

**MARGARINE COLOR INJECTOR**

**Bernard T. Hensgen and John A. Brendle, Chicago, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois**

**Application February 3, 1951, Serial No. 209,266**
**2 Claims. (Cl. 222—109)**



1. A dispensing device for a lentous fluent material including a dispensing nozzle having a passage therein through which said material may be withdrawn from a source of supply and dispensed, a pair of check valves spaced in said passage and defining a first portion of said passage, each of said check valves being positioned to permit flow of material only in the direction of said nozzle from said source of supply, a first piston and cylinder communicating with said first portion of said passage, fluid-actuated means connected to said first piston to move said piston in said cylinder, a second piston and cylinder communicating with the portion of said passage between said first portion thereof and said nozzle, a second fluid-actuated means connected to said second piston to move said second piston in its cylinder, a common fluid supply means in direct communication with each of said two fluid-actuated means through which changes in fluid pressure may be applied simultaneously to move said fluid-actuated means and their respective pistons in the direction of reducing the size of the portions of the cylinders communicating with said passage whereby material from each of the cylinders is forced into said passage, and means to subsequently move said pistons in the opposite direction.

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2,646,191

**SEED EJECTOR FOR PLANTERS**

**Hermann Wechsler, Ventura, Calif., assignor, by mesne assignments, to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware**

**Application September 6, 1951, Serial No. 245,277**
**8 Claims. (Cl. 222—221)**

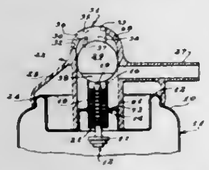


1. In a planting machine having a seed hopper, a seed selecting wheel disposed for rotation about

a central axis with a portion of its periphery movable through the hopper, said wheel comprising concentric and co-rotatable axially juxtapositioned seed plates having notched peripheries respectively cooperatively providing registering radially extending seed pockets, and an ejector plate interposed between said seed plates, said ejector plate being rotatable with said seed plates but about an axis eccentric with respect to the axis of rotation of said seed plates, the eccentricity of said ejector plate being sufficient to cause relative radial reciprocation of said ejector plate through at least a portion of said seed pockets.

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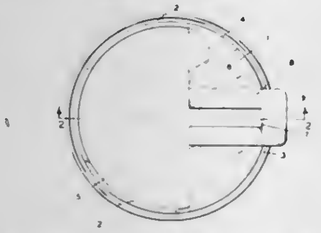
**2,646,192**
**PRESSURE TYPE CONTAINER**
**Erich W. Gronemeyer, Pompton Plains, N. J., assignor to Owens-Illinois Glass Company, a corporation of Ohio**
**Application November 5, 1952, Serial No. 318,868**
**5 Claims. (Cl. 222—394)**



1. In a valved dispensing head for a pressure type container, a cylindrical body having one end open, a valve actuator seat within the other end of the body comprising a generally hemispherical wall provided with an arcuate slot, the ends of said slot providing a first stop substantially at the juncture of the seat and side wall of the body and a second stop positioned slightly to one side of the axis of said body, a valve actuator consisting of a generally spherical element engaging said seat, substantially L-shaped fingerpiece carried by said element and extending outwardly through the slot, a spring closed valve openable by bodily movement of the actuator axially of said cylindrical body when the finger-piece is spaced a predetermined distance from the first-named stop, and a discharge tube extending radially outward from and opening at one end to the interior of said body in proximity to said valve actuator.

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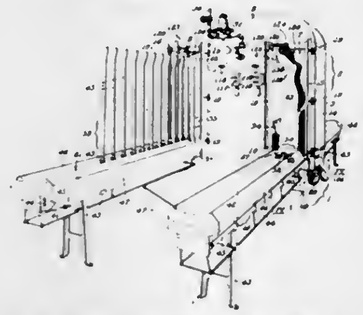
**2,646,193**
**PAINT CAN LID**
**Lorin M. Best, Eugene, Oreg.**
**Application January 24, 1951, Serial No. 207,457**
**1 Claim. (Cl. 222—570)**



An auxiliary lid for a container having a top grooved flange at its periphery, said lid comprising a substantially flat body portion having a peripheral flange of U shape to fill in the grooved flange of the container to retain said lid in position, said body portion having a substantially semicircular opening to accommodate insertion of a brush into the container, the remaining substantially solid semi-circular body portion having a diametrically disposed slot in communication at its inner end with the semi-diametrical opening, the walls of the slot being parallel, the outer end of said slot terminating at the U-shaped flange, and a flat metal lip fastened to the solid semi-circular portion of the lid and extending over the peripheral edge of same, the lip being of U-shaped form with a diametrical slot, the walls of which are parallel and correspond with and coincide with the slot in the body portion of the lid.

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**2,646,194**
**TEXTILE TREATING MACHINE**
**Emil J. Berger, Lansdale, and Howard W. Matthews, Souderton, Pa., assignors to Dexdale Hosiery Mills, Lansdale, Pa., a corporation of Pennsylvania**
**Application February 14, 1951, Serial No. 210,894**
**17 Claims. (Cl. 223—76)**



1. In a textile treating machine, a treating chamber having a hinged door at each end thereof; a longitudinal guideway extending beyond opposite ends of the chamber; a carriage movable back and forth on the guideway; a pair of supports for textile materials spaced on the carriage so that one of them is positioned within the chamber when the other is positioned at one end of the guideway, and vice versa; mechanism interconnecting the doors for simultaneous opening and closing; and door actuating means including, on each support, means for engaging one door to effect door opening for the exit of such support from the chamber as the carriage moves in one direction, and for engaging said one door to effect door closing upon entry of such support into the chamber as the carriage moves in the opposite direction.

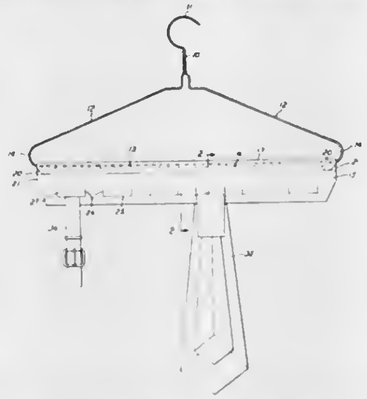
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**2,646,195**
**APPAREL HOLDER FOR COAT HANGERS**
**Dudley C. Kleist, Portland, Oreg.**
**Application August 27, 1949, Serial No. 112,667**
**5 Claims. (Cl. 223—88)**

1. A combination guard or shield and article holder for use with a wire coat hanger having a horizontal bar, comprising a sheet of stiff material having a rolled portion to encircle said bar and support the remainder of the sheet in a vertical hanging position, rounded on said rolled portion forming a spiral guide edge to facilitate insertion of said hanger bar, said sheet being provided with a series of intersecting horizontal and vertical cuts to form openings having lower edges for supporting articles inserted



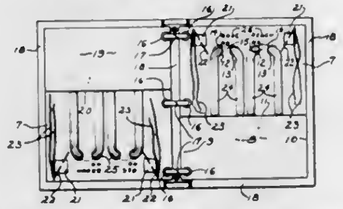
through said openings, and tabs coextensive with said openings and having lower edges for en-



gaging articles inserted through said openings to prevent the articles being displaced therefrom.

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**2,646,196**
**DEVICE FOR HOLDING EMBROIDERY FLOSS AND TEXTILE WEAVING AND SEWING MATERIAL**
**La Faun E. York, Wichita, Kans.**
**Application May 12, 1950, Serial No. 161,707**
**3 Claims. (Cl. 223—106)**

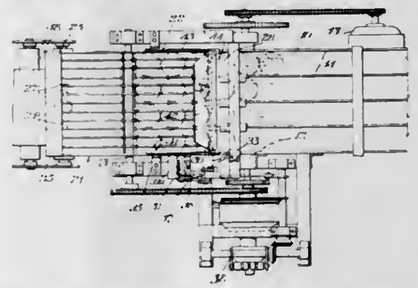


1. In an embroidery floss holder of the kind described; a sheet of bendable material, one end of said sheet being folded against the main body of the sheet and the respective side edges of the main body portion and the folded end portion being attached to each other to form a pocket on one end of the sheet, and means on the other end of the sheet for receiving and holding a skein of material, and means attached to the said sheet and positioned adjacent the skein holding means for holding needles, and means in said embroidery floss holding device for receiving loose leaf holder elements.

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**2,646,197**
**CASING MACHINE**
**Anthony R. Silva, San Jose, Calif.**
**Application June 27, 1949, Serial No. 101,575**
**9 Claims. (Cl. 226—14)**

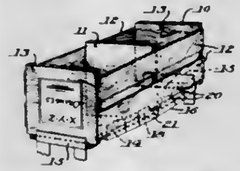
1. In a casing machine, means including a conveyor for supplying a plurality of parallel files of containers at the discharge end of the conveyor, casing mechanism at said discharge end including a plurality of successively active container supports with an active container support in alignment with the discharge end of the conveyor, a case support positioned above the active container support for movement of the containers on the container support into engagement within a case on the case support, a case supporting arm movably mounted on the machine and normally positioned in an inactive lower position, said arm cooperating successively with said container supports, and means for moving said case support-



ing arm upon initiating movement of containers on a container support into a case on said case support to engage the arm with the case and for thereafter causing movement of the containers, the case and the arm to the case discharge position substantially as a unit.

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**2,646,198**
**BULGE PACKING OF FRUIT**
**Ely Meyer, Tampa, Fla., assignor to United Paper Company, Tampa, Fla., a corporation of Delaware**
**Application November 9, 1948, Serial No. 59,141**
**6 Claims. (Cl. 226—17)**



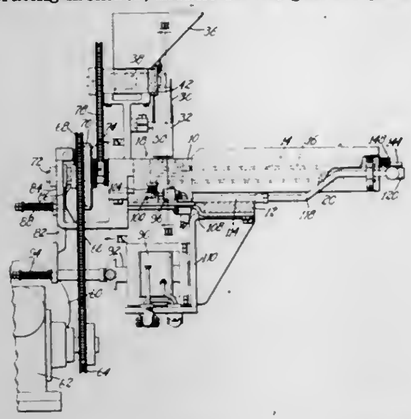
6. In a method of bulge packing fruit, the steps comprising, providing a rectilinear container open at the bottom and having a flexible top lid affixed thereto, said top lid being so affixed at the ends thereof to permit the bulging of said top lid to take place, placing said container with said bottom uppermost on spaced supports, placing substantially straight folded cardboard guards along the sides and within said container in the angles between said sides and said top lid and overlapping the same, display packing the layer of fruit adjacent said top layer, filling the remainder of said container thereby causing the bulging of said top lid, and affixing a bottom cover to said container before the shipment thereof.

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**2,646,199**
**MECHANISM FOR FILLING DISPENSING GUNS**
**Hans C. Paulsen, Medford, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application March 17, 1950, Serial No. 150,291**
**6 Claims. (Cl. 226—70)**

3. In combination, a plunger-operated dispensing gun, an extruding mechanism for filling said gun with plastic material, said mechanism having a feeding member arranged for operation by an electrical drive, a switch adapted to be connected to said electrical drive to control the latter, a

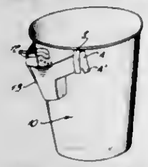
switch-operating member movably supported on said extruding mechanism, said extruding mechanism having means for supporting a gun in plastic-receiving position, said gun-plunger having an externally positioned knob, a latch on said switch-operating member, means on the gun for pushing



the latch to carry the switch-operating member to drive position as the gun is inserted in its supporting means, and a lug on the knob for engagement with said switch-operating member to move it in the other direction as the plunger is pushed back by the plastic during the filling of the gun, to stop the drive.

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**2,646,200**
**DRINKING VESSEL**
**Samuel Lawrence Atkins, New York, N. Y.**
**Application December 6, 1945, Serial No. 633,234**
**1 Claim. (Cl. 229—7)**



A paper composition drinking cup having holes near the top forming a strainer, spaced longitudinally disposed straps on said cup on opposite sides of said strainer adjacent the upper edge of the cup, and a paper composition foldable spout on the outside of said cup and covering the area of said holes, said spout having its lower end and sides adhesively secured to the cup and having oppositely disposed arms at its upper end and slidably secured under said straps.

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**2,646,201**
**CONTAINER WITH INSERT**
**John W. Meinhardt, Dallas, Tex., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland**
**Application July 8, 1952, Serial No. 297,655**
**6 Claims. (Cl. 229—15)**

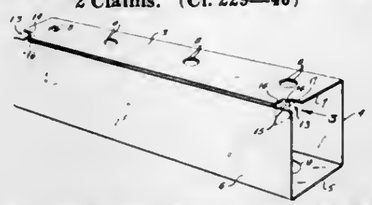
1. A paperboard container having two upstanding side walls, horizontal top and bottom walls connecting the side walls, one end of the container having a vertical wall constituting openable closure means thereat, and a paperboard container reinforcing and partitioning insert therein, the insert having an article supporting partition member consisting of upper and lower unscored panels of substantially rigid material horizontally disposed within the container and each substantially coextensive with and in parallel spaced relation to the top and bottom walls and thus forming upper and lower article storing compartments within the container, the compartments being accessible from the opened end of the container for inserting articles on or removing same from the upper com-



partment on the partition member and the lower compartment, a partition supporting and side wall reinforcing flap extending downwardly from each of the opposite side edges of the lower panel of the partition member, a side wall reinforcing flap extending upwardly from each of the opposite side edges of the upper panel of the partition member, said flaps being fixed against their adjacent side walls and the free end edges of the said flaps terminating adjacent the upper and lower inside corners of the container.

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**2,646,202**
**FLAP LOCKING DEVICE FOR CONTAINER INSERTS**
**Clyde F. Gibbons, Atlanta, Ga., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland**
**Application October 8, 1949, Serial No. 120,335**
**2 Claims. (Cl. 229—40)**

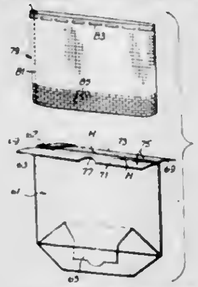


1. A folded blank container comprising a bottom panel and opposed side wall panels having marginal cover flaps that are overlapped for forming a two-ply top wall panel, one of said cover flaps having a tab foldably connected thereto substantially at a corner thereof, the length of the tab being such that its free end edge will extend substantially to the edge of the flap, said tab having a right angularly cut-out corner notch adjacent one end of the foldable connection, the other of said cover flaps having an opening substantially similar in shape to said tab and a right angularly shaped projection in a corner thereof, the projection being of substantially the dimensions of the notch in the said one cover flap and normally in registry therewith, so that when said tab is folded through said opening into substantially right angular relation with said other cover flap the edges defining the notch will frictionally engage the edges of the projection during the folding movement and the horizontal edge of the notch will be disposed and frictionally held under the projection and thus hold the said panels together.



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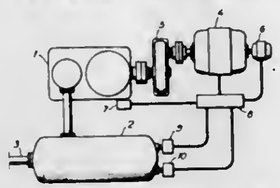
**2,646,203**
**BAG**
**Charles V. Brady and Russell J. Williams, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri**
**Application June 9, 1949, Serial No. 98,034**
**2 Claims. (Cl. 229—53)**



1. A bag comprising a tubular lower section made of imperforate bag material and formed with a bottom, said lower section having flaps at its upper end, and a tubular upper section made of perforate material allowing for ventilation and viewing of the bag contents having a substantially imperforate band at its lower end which is adhesively secured to the inside of the flaps, the upper end of the upper section defining the mouth of the bag.

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**2,646,204**
**COMPRESSOR PLANT**
**John Rutger Munck af Rosenschöld, Saltsjobaden, Sweden, assignor to Aktiebolaget Atlas Diesel, Sickla, near Stockholm, Sweden, a corporation of Sweden**
**Application November 10, 1948, Serial No. 59,348**
**In Sweden November 13, 1947**
**10 Claims. (Cl. 230—12)**

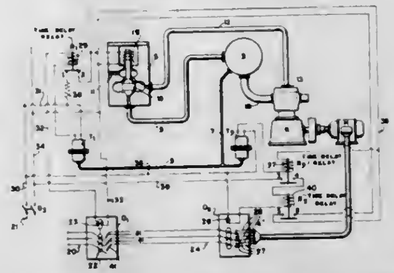


1. A compressor plant comprising in combination a compressor, electromotor equipment capable of operating said compressor for producing compression work at different speeds and including at least one main electromotor and means for changing the speed of the compressor, impulse creating means cooperatively connected with said speed changing means for changing the speed of the compressor, an auxiliary electromotor capable of accelerating said main electromotor to said operating speeds and an unloading mechanism for operation of the compressor at no load during the accelerating periods.



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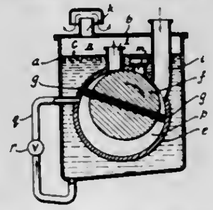
**2,646,205**
**COMPRESSOR PLANT**
**John Rutger Munck af Rosenschöld, Saltsjobaden, Sweden, assignor to Aktiebolaget Atlas Diesel, Sickla, near Stockholm, Sweden, a corporation of Sweden**
**Application August 6, 1947, Serial No. 766,511**
**In Sweden February 3, 1942**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires February 3, 1962**
**7 Claims. (Cl. 230—24)**



1. A compressor plant comprising in combination a compressor electric motor driving means coupled to said compressor for selectively driving the same at different work producing speeds, means supplying substantially constant voltage to said motor driving means at all work producing speeds, electrically operated speed changing means operatively associated with said motor for selecting any of said speeds for operating said compressor to produce compression work while said voltage remains substantially constant, unloading mechanism operatively associated with said compressor for loading or unloading said compressor and control means operatively associated with the output of said compressor and electrically connected with said speed changing means and with said unloading mechanism in such a manner that the speed of said compressor is changed in response to a change of a condition resulting from the compression work of said compressor and that said unloading mechanism is actuated to unload said compressor while the speed thereof is being increased from one of said speeds to another.

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**2,646,206**
**ROTARY PISTON AIR PUMP**
**Alfred Bräm, Schlieren, Switzerland, assignor to Micafil A.-G., Zurich-Alstetten, Switzerland**
**Application December 8, 1948, Serial No. 64,070**
**In Switzerland December 8, 1947**
**5 Claims. (Cl. 230—47)**

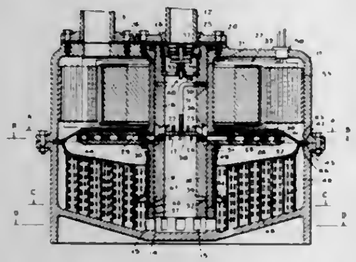


1. A rotary vacuum pump comprising, in combination, a container containing sealing oil and having an outlet to the atmosphere, a pump casing having a chamber disposed in said container and being submersed in the sealing oil, inlet

means for the medium to be pumped connected with said chamber and extending outside of said container, outlet means for the pumped medium connected with said chamber and terminating in said container, a rotor eccentrically mounted in said chamber, pump blades radially movably fitted in said rotor along a diameter thereof and dividing the space in said chamber into a suction and a delivery portion, and a sealing oil supply conduit extending from substantially the lowest point of said container into the delivery portion of said pump chamber.

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**2,646,207**
**MACHINE FOR COMPRESSION OF FLUIDS**
**Arthur C. Layton, Tyler, Tex.**
**Application July 3, 1951, Serial No. 235,040**
**12 Claims. (Cl. 230—108)**

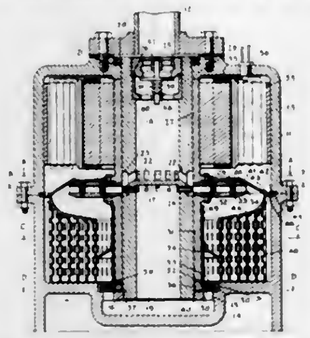


1. A fluid compressor comprising a vertical cylindrical pressure vessel having separate upper and lower inner chambers formed coaxially within said pressure vessel so that the balance of the vessel constitutes an outer chamber encircling said inner chambers, an outlet from said outer chamber to and an inlet to said upper chamber from without the vessel, at least one communicating channel between the outer chamber and the lower end of said lower inner chamber, adjacent radial passageways from the upper end of said lower chamber and from the lower end of said upper chamber to said outer chamber, outwardly pointing nozzles in said first-named passageways, a sleeve rotatable about said inner chambers, said sleeve being divided into upper and lower sections, two axially opposed horizontal discs fixed to said sleeve between said sections, a plurality of arcuate spacers separating said discs and forming therewith a plurality of radial ducts in horizontal alignment with said radial passageways, said ducts curving continuously away from a line radial of said discs toward their perimeter, and means for rotating said sleeve about said chambers.

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**2,646,208**
**MACHINE FOR COMPRESSION OF GASES, VAPORS, AND LIQUIDS**
**Arthur C. Layton, Tyler, Tex.**
**Application August 27, 1951, Serial No. 243,809**
**5 Claims. (Cl. 230—108)**

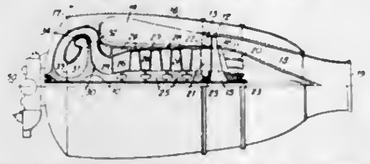
1. A fluid compressor comprising a vertical cylindrical casing enclosing a pressure chamber, upper and lower cylindrical chambers located within and along the central axis of said casing, a fluid inlet from outside said casing to said upper chamber, at least one lower passage and a plurality of radially spaced upper passages connecting said lower chamber and said pressure chamber, nozzles constituting restrictions in said upper passages, liquid in said lower chamber, orifices radially spaced about the bottom of said upper chamber communicating with said pressure chamber and said upper passages outwardly of said nozzles, a sleeve mounted for rotation about said upper and lower chambers, vanes at the lower end of said sleeve constituting a propeller for



forcing liquid from said pressure chamber into said lower chamber, ducts radiating spirally from said sleeve opposite said adjacent orifices and nozzles, and means for rotating said sleeve, ducts and propeller.

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**2,646,209**
**TURBINE DRIVEN MULTISTAGE COMPRESSOR**
**Jules Andre Norbert Galliot, Bexley, England**
**Application May 18, 1949, Serial No. 93,922**
**In France May 21, 1948**
**6 Claims. (Cl. 230—116)**



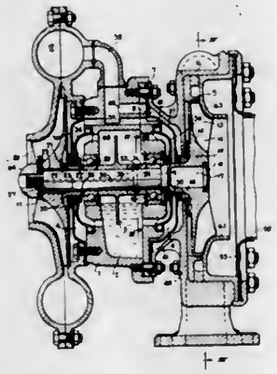
1. In a gas turbine including a rotary shaft and a bladed wheel secured thereon, a multistage air-compressor comprising as primary compression stage a plurality of helicoidal vanes forming spokes of said wheel, with stationary guide vanes co-operating with said spoke-forming vanes, and a plurality of axial-compressor rotors in series with said primary stage, and as intermediate and final compression stages two centrifugal compressors mounted on said shaft and operating in series, a tubular casing around said shaft conveying air from said primary compression stage to said intermediate compression stage, and a plurality of tubular connectors in parallel conveying air between said intermediate and final compression stages.

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**2,646,210**
**TURBOCOMPRESSOR**
**Hans Kohlmann, Esslingen (Neckar), and Gustav Zellbeck, Oberesslingen (Neckar), Germany, assignors to J. Eberspacher, Esslingen (Neckar), Germany**
**Application May 5, 1951, Serial No. 224,724**
**17 Claims. (Cl. 230—116)**

1. A turbo-compressor comprising, in combination, a radial turbine, a casing therefor, a radial compressor, a casing therefor, a support member disposed between said turbine and said compressor and having a side to which said turbine casing is bolted and a side to which said compressor casing is bolted, at least two axially aligned bearings borne in said support member, a shaft interconnecting said turbine and said compressor and extending through said bearings, a cooling air chamber disposed between said support member and said turbine, a cooling air chamber disposed between said support member and said compressor, a conduit interconnecting both said chambers for equalizing the air pressure therein, said support member having a cavity containing lubricating oil and communicating with both said bearings, said compressor having a wheel having a hub portion, a sleeve on and rotating with said shaft and disposed between said hub portion and the one of said bearings which is next to said compressor, said sleeve

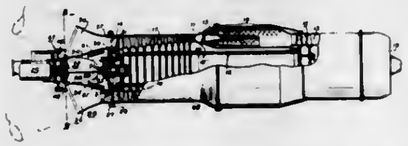




having an interior annular groove adjacent to said hub portion and an interior annular groove adjacent to said bearing, at least one longitudinal internal groove in said sleeve communicating with both said annular grooves, radial conduits extending from the annular groove which is adjacent to said bearing, to the outside of said sleeve for conducting air from said cavity into said last mentioned annular groove, and conduit means in said hub portion connecting the annular groove, which is adjacent to said hub portion, with the suction side of said compressor for drawing air from the annular groove adjacent to said bearing through said longitudinal groove into the annular groove adjacent to said hub portion and through said conduit means to the outside for ventilating said cavity.

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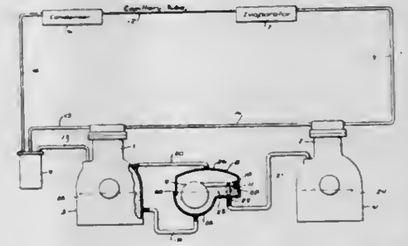
**2,646,211**
**BOUNDARY LAYER CONTROL FOR COMPRESSOR INLET DUCTS**
**Anthony Isabella, Philadelphia, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 3, 1949, Serial No. 96,890**
**1 Claim. (Cl. 230—132)**



An inlet duct structure for supplying air to the compressor inlet of an aviation power plant, comprising annular inner and outer wall portions adapted to be mounted on the casing structure of the power plant for providing a main annular axial flow passage, a pair of inlet duct portions diverging from said wall portions for providing branch inlet passages merging into said annular passage, said passages serving to contain compressor inlet air flowing at higher pressure than that of atmospheric air outside the power plant during flight operation, said inlet duct portions having bleed ports formed in the walls thereof contiguous to said inner wall portion of the main annular passage, said ports communicating with the atmosphere and thereby serving to withdraw sufficient low velocity boundary layer air from the interior wall surface of each duct portion to ensure uniform velocity and pressure distribution of air from said branch inlet passages throughout said annular flow passage during flight operation of said power plant, and a plurality of air pressure responsive shutter elements pivotally mounted on said duct portions and movable to open said ports while the inlet air pressure flowing in said duct passages exceeds that of the atmosphere, said shutter elements being hinged at their upper sides and hung over said ports for preventing back flow of atmospheric air into said branch inlet passages during static operation of said power plant.

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**2,646,212**
**OIL LEVEL EQUALIZING DEVICE FOR MULTIPLE COMPRESSOR ARRANGEMENT**
**Edward P. Kellie, Detroit, Mich.**
**Application November 30, 1950, Serial No. 198,447**
**5 Claims. (Cl. 230—206)**



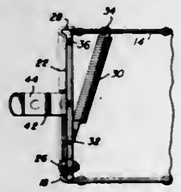
1. In combination at least two compressors for compressing gas in multiple stages, a fluid conducting line connecting the discharge outlet of the lower stage compressor in series with the intake port of the higher stage compressor so that the fluid compressed in the lower stage compressor is charged into the higher stage compressor, each compressor having a reservoir for liquid lubricant, a housing, a liquid conducting line between said housing and the reservoir of said higher stage compressor, a liquid conducting line between said housing and the reservoir of the low stage compressor, said first mentioned liquid line being open whereby the liquid lubricant levels in the reservoir of the higher stage compressor and the housing will equalize, a valve controlling the flow of liquid lubricant from said housing to the reservoir of the lower stage compressor, and means responsive to the liquid level in said housing for opening said valve when the liquid level in said housing rises above a desired normal liquid level in the reservoir of the higher stage compressor whereby the lubricating liquid flows from said housing into the reservoir of the lower stage compressor and the liquid in said reservoirs is maintained at desired levels.

**2,646,213**
**FAN**
**George E. Martin, Chicopee, Mass.**
**Application November 30, 1951, Serial No. 259,251**
**2 Claims. (Cl. 230—257)**



1. In a fan structure comprising in combination, a support, a housing connected to said support and oscillatable relative thereto, a motor carried in said housing, a shaft driven by said motor, a worm on said shaft, a fan wheel driven by said shaft, a staff, means driven by said shaft for rotating said staff, a clutch adjustable on said staff for engaging said staff with said means between operating and non-operating positions, a drive means comprising a worm gear meshing with said worm on said shaft and adjustable into and out of engagement therebetween, a pitman eccentrically secured to the worm gear, an arm connecting said housing and said pitman whereby with the worm gear in engaged position relative to the worm on said shaft, said housing and shaft and fan wheel are oscillated in vertical planes, a stationary bracket having one end fixed to said support, a linkage connected between said stationary bracket and said staff whereby said housing moves in a horizontal oscillatory movement upon the rotation of said staff.

**2,646,214**
**MAILBOX INCLUDING SPRING URGED DOOR**
**Frank M. Cuplin, Crowley, La.**
**Application April 27, 1951, Serial No. 223,233**
**6 Claims. (Cl. 232—45)**



3. A mail box comprising a horizontally disposed casing having a forward open end, a door for the open end of the casing having a lower corner, a horizontal pivot securing the lower corner of said door to said casing, and an elongated spring having a forward end attached adjacent the lower corner of the door and a rear end secured to the casing and inclined relative to the door, said spring being expanded as the door is moved about its pivot to an open position.

**2,646,215**
**AUTOMATIC TOLL COLLECTOR DEVICE**
**John R. Stovall, Jr., Doylestown, Pa.**
**Application April 15, 1949, Serial No. 87,681**
**18 Claims. (Cl. 235—33)**

1. In a collection and signaling system, in combination, a moving series of collector boxes adapted to operate adjacent a traffic lane and to receive deposits from moving vehicles, means for inverting said moving collector boxes to empty the contents thereof into stationary receiving chutes, said moving collector boxes being of such shape as to permit said emptying only when said boxes are in a substantially vertically inverted position, means for sorting and registering said deposits fed by said receiving chutes, a first register indicator, a second register indicator, means for actuating said first and second indicator by



said sorting and registering means, said first indicator being located adjacent said traffic lane and far enough removed from said registering means that said moving vehicles do not arrive at said indicator before said indicator is actuated, said second indicator being located at a visual monitoring station and far enough removed from said registering means that said moving vehicles do not arrive in the immediate front of said monitoring station before said second indicator is actuated.

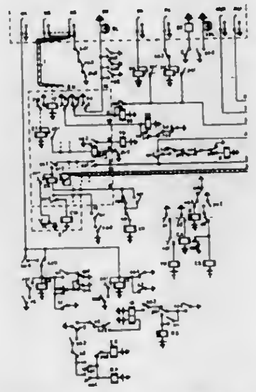
**2,646,216**
**AVERAGING DEVICE**
**Gojko M. Vlajinac, Lima, Peru**
**Application February 21, 1949, Serial No. 77,627**
**In France July 29, 1948**
**3 Claims. (Cl. 235—61)**



1. In a measuring instrument for automatically indicating the average speed of a moving body having a rotatable element, a second rotatable element concentrically mounted with respect to the first named rotatable element, each of said rotatable elements being movable from a normal position to a set position, the first named rotatable element having two concentrically arranged scales in logarithmic graduation thereon, one of said scales denoting average speed and the other of the scales distance in miles, the said second named rotatable element being provided with a scale in logarithmic graduation denoting the time in hours, means adapted to rotate the first named rotatable element proportional to the distance covered by the moving body, further means adapted to rotate the second named rotatable element at a uniform speed, and a drive assembly operatively connecting each of said drive means with said rotatable elements, each of said drive assemblies including a curved gear having a logarithmic spiral adjusted to the logarithmic scale graduation connected to the said rotatable element, a pinion meshing with said curved gear and movable radially in a straight line respecting said curved gear, a complemental gear operatively connected to said drive means and movable toward and away from said pinion, and spring means acting on said complemental gear to urge said gear into engagement with the curved gear.



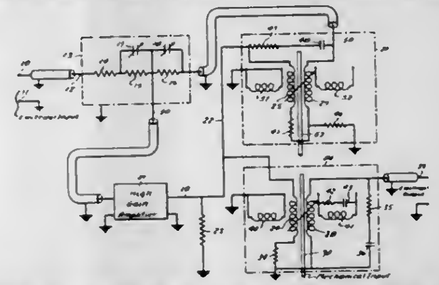
**2,646,217**
**ARTICLE DISPENSING SYSTEM**
**Peter Lincoln Law, Roseville, near Sydney, New South Wales, Australia, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a corporation of Australia**
**Application October 26, 1949, Serial No. 123,641**
**In Australia November 4, 1948**
**17 Claims. (Cl. 235—61)**



2. In a system for dispensing articles of varied character according to coded designations thereof: a plurality of electrically actuated release mechanisms for discharging articles for dispensing and indicating means, to indicate the discharge of each article; a selection device for selectively preparing a circuit for any of said release mechanisms; a switch relay associated with each of said release mechanisms and electrically connected therewith; and a relay circuit arrangement connected with and operable by said selection device to operate a selected switch relay, said relay circuit arrangement including indicating relay means, control relay means, locking relay means and release relay means, said indicating relay means being operated at the operation of a selected switch relay and initiating the operation of said control relay means, said control relay means disconnecting the circuit for said indicating relay means and energizing said release relay means for the release of said selection device and said control relay means, said control relay means upon its release energizing said locking relay means and said selected release mechanism and deenergizing said release relay means, said indicating means upon discharge of an article from said release mechanism deenergizing said locking relay means.

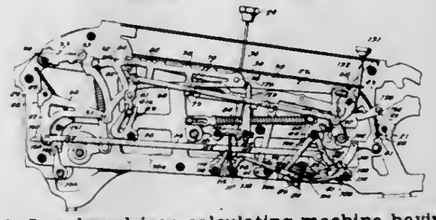
**2,646,218**
**DISTORTIONLESS ELECTRICAL RESOLVER**
**William H. Newell, New York, Henry F. McKenney, Flushing, and Lewis J. Scheuer, Farmingdale, N. Y., assignors to The Sperry Corporation, a corporation of Delaware**
**Application April 25, 1950, Serial No. 157,892**
**5 Claims. (Cl. 235—61)**

3. A distortionless electrical system comprising a pair of identical magnetic transformers comprising synchro units having stator and rotor windings, an amplifier, means supplying an electrical input signal to said amplifier, means connecting said amplifier to feed said stator windings in parallel, means connecting one of said rotor windings to supply a feed-back signal to the input of said amplifier in a negative sense and of a value to compensate for the distortion products introduced by said transformers, and means de-



riving an output signal from the other rotor winding, said output signal being free of said distortion products.

**2,646,219**
**KEY-DRIVEN CALCULATING MACHINE**
**Joseph A. Valentine Turck, Miami Beach, Fla., assignor to Felt and Tarrant Manufacturing Company, a corporation of Illinois**
**Application November 22, 1949, Serial No. 128,741**
**8 Claims. (Cl. 235—82)**



1. In a key-driven calculating machine having denominational orders of adding mechanism including a sector gear operated by the keys and spring actuated on its return adding stroke as the prime actuator in each order, error control means comprising: an arcuate ratchet sector secured to the sector gear and having a plurality of teeth along its upper and lower edges, a dog pivotally mounted on the machine and adapted to engage the teeth along one of said edges to prevent adding movement of the sector gear, a second dog pivotally mounted on the machine and adapted to engage the teeth along the other edge to prevent pre-adding movement of the sector gear, a shiftably mounted sector guard plate on the sector gear having arcuate upper and lower edges, means on each dog adapted to ride on an edge of the guard plate, means operating at the end of a complete key downstroke to shift the guard plate into lifting contact with the riding means on the first dog to disengage the dog and to engage the second dog, and means operating at the end of a complete key upstroke to shift the guard plate into lifting contact with the riding means on the second dog to disengage the dog and re-engage the first dog.

**2,646,220**
**ARITHMETICAL DEVICE FOR WRITING INSTRUMENTS**
**Jack Weiser, Los Angeles, Calif.**
**Application June 23, 1952, Serial No. 295,062**
**4 Claims. (Cl. 235—87)**

1. In an instrument of the class described, an arithmetical device comprising: a barrel

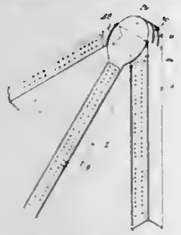
having thereon a plurality of arithmetic tables each composed of circumferentially extending rows of numbers, with the rows of one table alternating with the rows of the other table along the length of the barrel; said barrel having rows of circumferentially extending control numbers, one row for each of said tables; a casing having a series of openings with accompanying indicia designating predetermined number values for said openings; said casing having a control opening; means mounting and confining said casing on said barrel in any one of a plurality of longi-



tudinally spaced positions for relative rotation; and means co-acting with the last means to enable relative translational adjustment of said casing and barrel from one to another of said positions to be effected in a predetermined position of relative rotational adjustment of the casing and barrel to accordingly dispose the numbers of one table or another for viewing in said series of openings and the numbers of one or another of said rows of control numbers for viewing in said control opening upon relative rotational adjustment of the casing and barrel.

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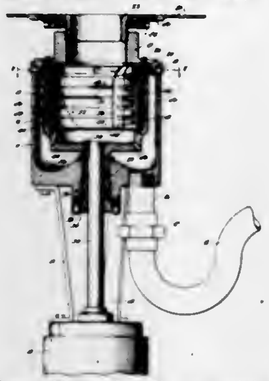
**2,646,221**
**CRIBBAGE BOARD**
**Victor G. Landers, North Warren, Pa.**
**Application April 24, 1951, Serial No. 222,581**
**2 Claims. (Cl. 235—90)**



1. In a folding cribbage board, a middle section, a first outer section, and a second outer section, said sections being substantially similar and arranged to occupy parallel side by side positions in contact with each other for storage, the middle section being formed at one end with a disk as large in diameter as the combined widths of the sections and the first and second outer sections being formed with like diameter disks, the center of the middle section disc being aligned with the longitudinal center of the middle section, and the discs of the outer sections being laterally offset from the longitudinal centers of the outer sections, said disks being in registered and superimposed relation, and a pivot traversing the centers of the disks and securing the sections together for pivoting relative to each other into angularly spaced playing positions, said sections having upper and lower sides, the upper sides being formed with peg holes, said disks being substantially thinner than the sections, the disk of the middle section being flush with the upper side of the upper section and spaced from the lower side thereof, the disk of said first outer section being flush with the lower side thereof and spaced from the upper side thereof, and the disk of said second outer section being spaced from its upper and lower sides and positioned between the disks of the middle and first outer sections, end portions of the first and second outer sections being concentrically concaved to accommodate the disk of the middle section.

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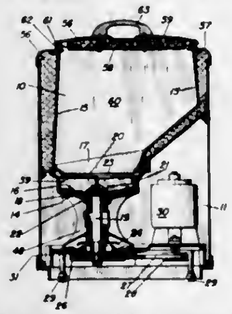
**2,646,222**
**GARBAGE DISPOSAL UNIT**
**Martin J. Green, Chicago, Ill.**
**Application March 22, 1946, Serial No. 656,459**
**10 Claims. (Cl. 241—46)**



1. A garbage disposal unit, comprising a hollow cylindrical member for receiving solid waste material and liquid and mounted for rotation on a vertical axis, comminuting members disposed in vertically spaced relation interiorly of said cylindrical member, and rotatable means mounted below said comminuting members for imparting outward movement to the solid waste material received by said cylindrical member to deliver the same to the interior walls of the latter to be fed thereby to said comminuting members, said rotatable means having apertures therethrough spaced inwardly from the outer periphery thereof so as to maintain a predetermined quantity of liquid in said cylindrical member during rotation thereof and comprising outlet means for any liquid in excess of said predetermined quantity and for the comminuted solid waste material.

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**2,646,223**
**ICE SHAVING MACHINE**
**Bartholomew Frank Quintilian, Baltimore, Md., assignor to QSK Products Inc., a corporation of Maryland**
**Application April 1, 1950, Serial No. 153,409**
**5 Claims. (Cl. 241—92)**



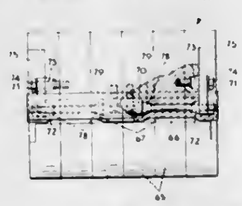
1. An ice shaving machine comprising a vertically disposed container having an upper and a lower compartment, the inner walls of the upper compartment being slanted to guide and insure



gravitational downward movement of ice pieces placed in said compartment, an open-ended pan at the bottom of the upper compartment having side walls tapering towards the lower compartment, a vertical frame in the lower compartment, said frame having an axial passage therethrough, spaced hollow bearing elements mounted in said passage, a rotary shaft supported in said bearings, a cutter secured to said shaft at the upper end thereof and positioned at the bottom end of the upper compartment, said frame having a dished upper portion with a central opening and with walls tapering towards the aforesaid axial passage to direct the drippings gathered by the dished portion of the frame through its opening and through the axial passage to the bearings to cool them, and a motor in the lower compartment for driving the aforesaid shaft.

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**2,646,224**
**IMPACT CRUSHER ROTOR WITH RIGID HAMMERS**
**John Chrystal, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**
**Original application March 29, 1950, Serial No. 152,529. Divided and this application May 15, 1951, Serial No. 230,862**
**3 Claims. (Cl. 241—191)**

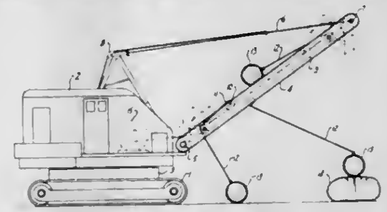


1. A rotor assembly for a crusher including means forming a rotor body having a peripheral axial rabbet having spaced side walls, hammer means in said peripheral axial rabbet including cam means at opposite ends, hammer holding means constructed to pull rather than push said hammer means against one wall of said peripheral axial rabbet whereby there is no wedging force tending to separate the walls of said peripheral axial rabbet provided by said hammer holding means, said hammer holding means including strap means adjacent each end of said hammer and the rotor body, cam means associated with said strap means, and means fastening said strap means to said hammer means and rotor body whereby said cam means cooperate to secure said hammer means in said peripheral axial rabbet as aforesaid.

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**2,646,225**
**SKULL CRUSHER**
**Lawrence Te Desco, Frank, Pa.**
**Application October 29, 1951, Serial No. 253,744**
**3 Claims. (Cl. 241—273)**

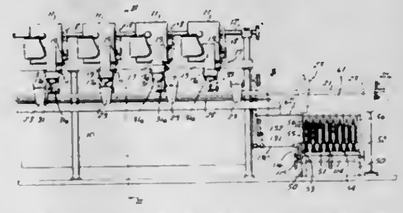
1. In a skull crusher, a boom comprising a plurality of side members, an endless conveyor chain mounted between said members, drums mounted for rotation on said conveyor chain, gear racks disposed below the upper strand of said conveyor chain in the path of movement of said chains and gear teeth on said drums interacting with the teeth of said rack whereby the drums revolve while being conveyed by the chains from one end to the other end of the boom, spring biased pawls for engaging the teeth of the drums to prevent rotation thereof in one direction, cables connected to said drums having crusher weights at one end thereof, and means for driving the conveyor chain whereby the crusher weights are lifted from the ground by rotation of the



drums and conveyed along the boom to the top thereof to fall by gravity on the article to be crushed.

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**2,646,226**
**COP HANDLING MECHANISM**
**James G. Gamble, Northbridge, Mass., assignor to Paul Whitin Manufacturing Co., Northbridge, Mass., a corporation of Massachusetts**
**Application September 28, 1949, Serial No. 118,259**
**9 Claims. (Cl. 242—35.5)**



1. The combination with a cop winder having a plurality of winding heads, of an endless belt conveyor disposed to pass along the array of winding heads, and to one end of the array, cop carriers on said conveyor to receive cops from said heads, a support at said end of the array of winding heads for a cop-receiving rack, said conveyor crossing said support, at least one guide to guide cops from said carriers to empty spaces on said rack, and a cop selector mechanism to select cops individually directly from said carriers for empty spaces on said rack.

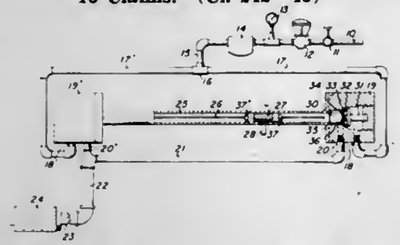
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**2,646,227**
**SELF-TRAVERSING DRIVE ROLL**
**James Joseph Calhoun, Waynesboro, and Harry Marshall Cook, Staunton, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application May 9, 1949, Serial No. 92,176**
**8 Claims. (Cl. 242—43)**



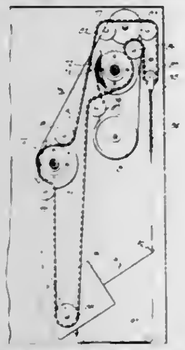
1. A device for traversing a continuous strand on a core comprising a rotatable member provided with means to rotate said member and with an endless groove in its surface helically cut in its major portion at an angle of from 5° to 25°, said groove containing at least two rapid reversal sections in said groove cut helically at an angle greater than said angle in said major portion and said groove being cut to such a depth that the quotient of said helix angle in the said major portion in degrees divided by the groove depth in inches is between 5 to 40.

2,646,228
**FLUID-OPERATED RAPID TRAVERSE MECHANISM FOR WINDING STRAND MATERIAL**
**Richard F. Dyer, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application March 13, 1952, Serial No. 276,356**
**13 Claims. (Cl. 242—43)**



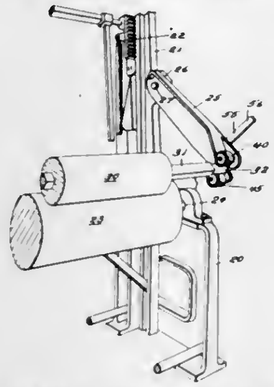
1. A fluid yarn guide control for a fluid operated traverse mechanism which is adapted to wind yarn on a rotating support and including a yarn guide, a piston carrying the yarn guide, a slotted tube in which the piston may slide with the yarn guide extending through the slot in the tube, the fluid guide control comprising a valve block at each end of the tube, fluid pressure inlets and outlets in each valve block connected to a fluid pressure line and an exhaust line, said valve blocks each including movable means for controlling the flow of fluid pressure through the valve blocks, said means lying in the path of the piston to be actuated thereby in one direction to admit fluid pressure to pass into the valve, the means including valve elements slidable in the valve block, the fluid pressure reacting on the valve elements and piston to reverse the direction of movement thereof, the means also closing the tube to the entrance of fluid pressure.

2,646,229
**REEL REVERSING DRIVE**
**Jerome L. Clough, Milwaukee, Wis.**
**Original application January 25, 1943, Serial No. 473,508, now Patent No. 2,521,284, dated September 5, 1950. Divided and this application February 3, 1950, Serial No. 146,042**
**9 Claims. (Cl. 242—55)**



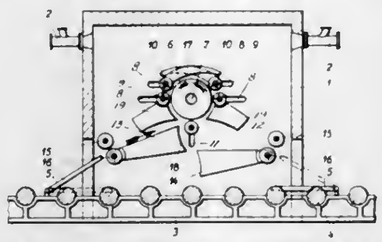
5. The combination with a conveyor and a plurality of rotatable supports therefor, of driving means for actuating each support primarily, said driving means being adapted to actuate said supports in opposite directions, driving connections from one support to the other for secondarily actuating the respective supports in directions opposite to that in which they are respectively actuated by the driving means first mentioned, whereby both of the supports are positively driven independently of the conveyor in both directions of operation, the conveyor being floated without driving load therebetween.

2,646,230
**JAW ARM FOR WINDING MACHINES**
**Walter E. Aulen, Woodstown, N. J., assignor to Eddystone Machinery Company, Chester, Pa., a corporation of Pennsylvania**
**Application August 20, 1951, Serial No. 242,760**
**3 Claims. (Cl. 242—66)**



1. In a jaw arm for a winding machine, a longitudinal portion, guiding surfaces on the longitudinal portion converging toward one end of the jaw arm and leaving an opening, a pair of adjacent pivots side by side beyond the opening between the converging guiding surfaces, antifriction bearings on the adjacent pivots, and rollers supported by the antifriction bearings on the pivots and at the circumference approaching close together to receive and pivotally support the center bar of a shell.

2,646,231
**HOT STRIP FURNACE REEL**
**Ferdinand Frielinghaus, Dortmund, Germany**
**Application October 25, 1950, Serial No. 191,997**
**In Germany October 26, 1949**
**4 Claims. (Cl. 242—78)**

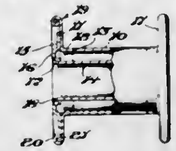


1. A hot strip reeling device comprising a reeling drum having an imperforate circumferential surface, spring loaded means for guiding the strip onto said drums and arranged symmetrically on both sides of the drum and providing a channel surrounding a substantial part of the drum for guiding the incoming strip at least until its free end is directed into the opposite direction said guiding means having upper and lower pressure rollers, arms on the upper rollers extending



lengthwise and curved to conform to the contour of the drum, said arms being disposed in side by side arrangement in comb-like fashion.

2,646,232
**HEAD FOR SPOOL, REEL, AND WARP BEAMS**
**Robert V. Olson, Attleboro, Mass., assignor to Mossberg Pressed Steel Corporation, a corporation of Massachusetts**
**Application November 20, 1948, Serial No. 61,291**
**1 Claim. (Cl. 242—123)**



A metal head for a spool or reel or the like comprising a flat annular disk having a one-piece rolled outer edge spirally formed throughout an angular extent greater than 360 degrees with portions beyond the 360 degrees in contiguous relation with each other adjacent the flat plane of the disk.

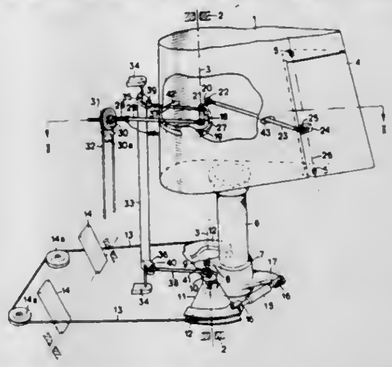
2,646,233
**SPOOL**
**Marius Gazet, Lyon, France, assignor to Etablissements G. Decombe, Lyon, France, a company of France**
**Application November 28, 1950, Serial No. 197,855**
**In France December 21, 1949**
**8 Claims. (Cl. 242—129)**



1. A coil carrier comprising a drum and two flanges one of which at least is removable, a skeleton spool including a plurality of convergent interconnected arms bent inwardly at right angles at equal distances from the point of convergence of said arms, the inner bent parts of said arms bearing against the periphery of the drum, said skeleton spool being adapted to carry, independently of the drum and flanges, a wire coiled round the bent parts of the arms with the end surface of the coiled wire bearing against the outer convergent parts of said arms.

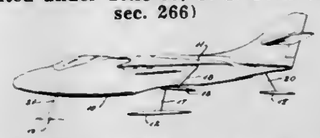
2,646,234
**TRIMABLE SERVO TAB WITH BALANCED, ANTIBALANCED, AND SPRING TAB ACTION INTENDED ESPECIALLY FOR AIRCRAFT**
**Tord Nils Gösta Lidmalm and Nils Folke Lennart Bengtsson, Linkoping, Sweden, assignors to Svenska Aeroplan Aktiebolaget, Linkoping, Sweden, a joint-stock company of Sweden**
**Application December 26, 1950, Serial No. 202,598**
**In Sweden January 4, 1950**
**3 Claims. (Cl. 244—82)**

1. In an aircraft, a control surface pivotally connected at its forward edge to the aircraft for movement about a given axis, a tab hinged to the trailing edge of the control surface, a lever, a steering means supported by the control surface and extending in a plane normal to said given axis, a pivotal connection between the lever and the steering means, said lever being supported by the steering means for bodily movement of the lever in said plane and turning movement of the lever in relation to the steering means, a rod means, a pivot connecting one end of the rod means with the lever at an axis spaced from said pivotal connection, a universal joint connecting the other end of the rod means with a fixed part of the aircraft, a push-pull rod operatively connected at one end with the tab and pivotally



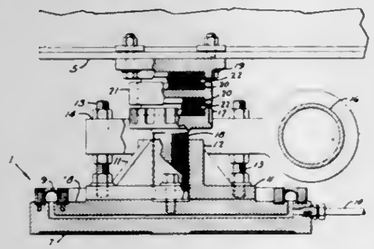
connected at its other end with the lever in spaced relation to said pivot, control means operable by the pilot, a second lever pivotally mounted on the control surface for movement about said given axis and connected to said control means to be operated thereby, a pre-loaded two-way acting spring unit operating between the control surface and said second lever to cause coordinated and relative angular movements of the control surface and said second lever in response to loads acting thereupon, and transmission means interconnecting said second and first levers to transfer movements from said second lever to said first lever.

2,646,235
**BUOYANT AIRCRAFT WITH HYDROSKIS**
**John R. Dawson, Sr., Hampton, Va.**
**Application May 29, 1951, Serial No. 228,961**
**4 Claims. (Cl. 244—105)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



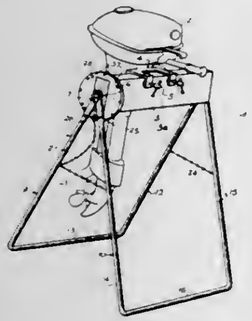
1. An aircraft having a body which includes a fuselage and wings, said body having a watertight lower portion which will provide sufficient buoyancy to support the aircraft in deep water, a hydroski supported by said aircraft body and having an aspect ratio less than unity, a streamlined strut connected to the hydroski and extending upwardly to the body, said strut having a width less than the span of the hydroski, means for retracting the hydroski into the body of the aircraft, the hydroski and body forming an approximately continuous surface when the hydroski is retracted, said hydroski being inclined upwardly over its length and toward its leading edge, and the trailing end of the hydroski being tapered rearwardly.

2,646,236
**HYDRAULIC SCALE PLATFORM SUPPORTING MEANS**
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application February 27, 1947, Serial No. 731,283
5 Claims. (Cl. 248—2)



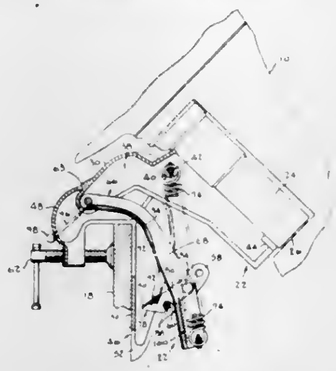
1. In a hydraulic weighing scale, a short resilient column interposed between a load receiver and a supporting hydraulic capsule comprising a pair of cup-shaped members attached one to the load receiver and the other to the capsule, a spacer having recesses facing the recesses of the cup-shaped members, and rubber inserts in the recesses for holding the members separated from the spacer and for transmitting force from one member to the spacer and from the spacer to the other member, said rubber inserts each having a groove therein that is adjacent to and that extends inwardly from the space between the rims of the recesses of the spacer and the adjacent member.

2,646,237
**PORTABLE STAND**
George M. Hinesman, Galion, Ohio
Application February 7, 1950, Serial No. 142,881
1 Claim. (Cl. 248—4)



A collapsible portable stand for supporting outboard motors and the like in elevated positions, comprising an elongated cross bar having a channel extending through the longitudinal axis thereof, a plate mounted on one end of said cross bar and disposed in a plane perpendicular to the longitudinal axis of said cross bar, said plate having integral inwardly projecting mounting flanges disposed adjacent opposite sides of said cross bar, means for non-rotatably securing said flanges to said cross bar, said plate having a plurality of holes therein located substantially concentrically of and surrounding the longitudinal axis of said cross bar, a rod disposed within the channel in said cross bar and having portions projecting beyond the ends of said cross bar, a pair of substantially U-shaped supporting members projecting from the ends of said cross bar at substantially right angles to the longitudinal axis of said cross bar, each of said supporting members comprising a pair of leg elements and a cross piece connecting corresponding ends of said pair of leg elements, the other ends of each of said pair of leg elements having bearing apertures therein disposed to receive said projecting portions of said rod, the leg elements of one of said supporting members being laterally spaced apart a greater distance than the leg elements of the other of said supporting members and the cross piece of said one of said supporting members being spaced a greater distance from the longitudinal axis of said cross bar than the cross piece of said other of said supporting members to permit said members to nest together in the same plane when the stand is collapsed, one of said leg elements having a guide aperture therein adapted to register successively with said plate holes as said plate is rotated relative said one of said leg elements, and pin means adapted to be inserted through said guide aperture and one of said plate holes in alignment therewith whereby to lock said cross bar against rotation relative to said one leg element.

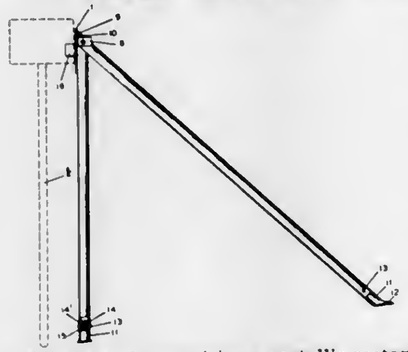
2,646,238
**RESILIENT TILTING LOCK FOR OUTBOARD MOTORS**
Ralph N. Kircher, West Bend, and Richard C. Heidner and Wilford B. Burkett, Hartford, Wis., assignors to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application June 8, 1950, Serial No. 166,808
11 Claims. (Cl. 248—4)



1. A mounting for an outboard motor comprising, a swivel bracket in which said outboard motor is pivotally mounted for the steering of a boat on which said motor is mounted, a stern bracket having means adapted for engagement with a boat, a pivotal connection between said swivel bracket and said stern bracket whereby with said stern bracket secured to a boat said swivel bracket and motor may be tilted rearwardly and upwardly, an anti-tilt mechanism including a member pivoted on said pivotal connection, disengageable means for locking said member against rotation with respect to said stern bracket, and resilient means acting between said member and said swivel bracket to resist rearward upward tilting of said stern bracket and said motor.

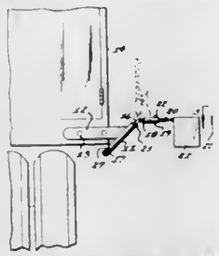


2,646,239
**HOD STAND**
Harry M. Young, Jr., Webster Groves, Mo.
Application March 17, 1947, Serial No. 735,208
3 Claims. (Cl. 248—166)



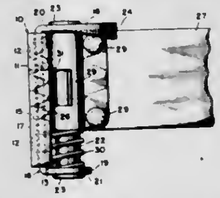
1. A hod stand comprising a metallic rectangular plate, two bolts extending through said plate, two laterally swingable leg members respectively mounted at their upper ends on said bolts, angle clips mounted on the other end of said bolts, a central leg member longer than said laterally swingable leg members swingably mounted in the central portion of the rear face of said plate, and an auxiliary plate slidably mounted between the angle clips and the rectangular plate and being provided along its upper edge with a notch for holding a hod trough.

2,646,240
**FLAG HOLDER**
Clarence N. Anderson, Northwood, Iowa
Application February 28, 1950, Serial No. 146,759
2 Claims. (Cl. 248—207)



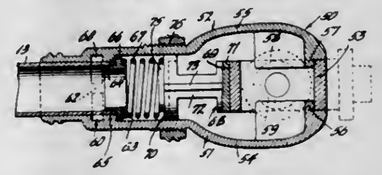
1. In a holder for holding a flag staff in a perpendicular or horizontal position relative to a support, a bracket arm having an end adapted to be secured to a support with the bracket arm extending laterally and horizontally therefrom, a tubular body fixed intermediate its ends on the other end of said arm, said tubular body extending at an upward and laterally outward angle relative to said arm, said tubular body having a depressed end and an elevated end, a shaft having a first shaft portion rotatably and slidably engaged in said tubular body, said first shaft portion being longer than said tubular body and having a depressed end reaching below the depressed end of said tubular body, a lateral pin on the elevated end of said first shaft portion bearing against the elevated end of said tubular body, spring means acting between the depressed end of the tubular body and a part of the depressed end of said first shaft portion and serving to urge said pin toward the elevated end of said tubular body, a second shaft portion on the elevated end of said first shaft portion, said second shaft portion extending at an obtuse angle to the axis of said first shaft portion, said second shaft portion being formed with means for securing a flag staff thereto with the axis of the flag staff parallel to the axis of said second shaft portion, said shaft being rotatable relative to said tubular body to position the flag staff in an erect perpendicular position or in a horizontal position.

2,646,241
**TAKEDOWN TYPE SWINGABLE WALL BRACKET**
Robert E. McLean, Columbus, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee
Application April 19, 1948, Serial No. 21,916
11 Claims. (Cl. 248—289)



1. A supporting bracket of the character described comprising a plate designed to be mounted on a support, spaced ears carried by the plate, a pivot pin connected at its ends to and extending between the ears, said pin being secured to the ears against axial movement relative thereto, an arm member having a hinge sleeve at one end, the sleeve being between the ears and having the pin extending therethrough whereby the arm may be swung around the pin as a center, means connected with the plate and having the arm detachably coupled thereto to maintain the arm in a predetermined working position relative to the plate, and spring means for yieldingly maintaining the arm and the plate connected means in coupled relation.

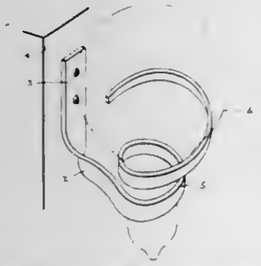
2,646,242
**UNIVERSAL JOINT**
Leon Boltuch, Wallingford, Conn.
Application January 18, 1952, Serial No. 267,063
6 Claims. (Cl. 248—292)



1. A support providing variable adjustment of a load unit thereon, comprising a load carrier including an annulus, an elongated longitudinally split housing comprising a pair of mating elements having a tubular section at one end and cut-away portions having means rotatably holding said annulus between said elements at the other end, at least one of said elements being recessed adjacent said annulus to provide a passage between said tubular section and the interior of said annulus, a brake shoe disposed in said housing having an arcuate surface bearing against said annulus and providing constant

braking surface contact during movement of said annulus, and a spring disposed in said tubular section and bearing against said brake shoe to press the same against the annulus, thereby providing for movement of the load unit about the axis of the annulus and holding the same in its adjusted position.

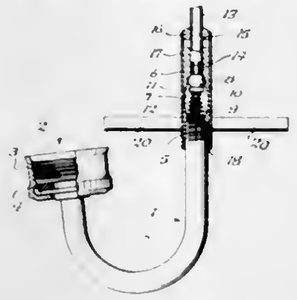
**2,646,243**
**SUPPORT FOR FIRE EXTINGUISHERS**
**Robert William Rycroft, El Monte, Calif., assignor to Ontario Fire Prevention & Service, Toronto, Ontario, Canada**
**Application November 21, 1947, Serial No. 787,304**
**In Canada November 28, 1946**
**3 Claims. (Cl. 248—314)**



1. A fire extinguisher bomb support comprising a flat thermoplastic strip of rectangular cross section rigid at normal ambient temperatures but pliable upon an excessive rise of ambient temperature and formed to provide a back portion adapted to be secured to a wall with the strip against the wall, and an outwardly extending fusible cantilever portion forming a gravity release under weight of a bomb on excessive rise of temperature and connected to the back portion by a strip portion twisted through 90° substantially at the plane of the back portion providing maximum resistance to bending under moment forces at the juncture of the cantilever and back portions without increasing strip dimensions requiring minimum heat absorption for fusing, and a bomb-retaining means supported solely from said cantilever portion at the end thereof and adapted to load said cantilever with the moment of a bomb supported thereby, said bomb-retaining means comprising a spiral formation extending above said cantilever section and having a vertical axis lying substantially in the plane thereof with the upwardly spiralling convolutions progressively increasing in radius and terminating in a curved upwardly extending free end portion offset from vertical alignment with said outwardly extending cantilever portion in a direction transversely of said cantilever portion.

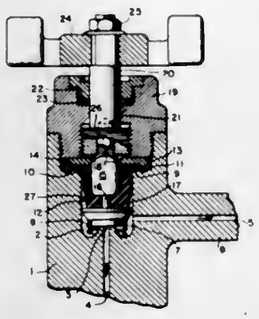
**2,646,244**
**VALVE FOR CONTAINER WASHERS**
**Walter H. Sohn, Rochester, N. Y.**
**Application October 14, 1947, Serial No. 779,752**
**4 Claims. (Cl. 251—8)**

4. An improved valve comprising a tube having an open, free end, a sleeve screwed over the end of the tube and having a fully cylindrical periphery, the passage of said sleeve having between its ends an annular, imperforate seat facing the end of the tube, a valve element in said passage movable into and out of engagement with said seat, a tubular pin sliding in and closing the outer end of said passage open at both ends and extending outwardly beyond the sleeve, a cylindrical metal shell uniform in thickness from end to end, sliding and fitting over said sleeve upon the ends thereof, extending in both directions beyond the ends of the sleeve, and having its inner end turned inwardly to engage against the inner end of said sleeve to limit outward movement of the shell, an annular plug fitting and



closing the outer end of said shell with the tubular pin passing through and fixed to said plug so as to be an integral part thereof and extending in both directions therefrom, said shell having diametrically aligned arms extending laterally from opposite sides of the shell adjacent its inner end.

**2,646,245**
**HIGH-PRESSURE FLUID CONTROL VALVE**
**Nerino Bedini, Milan, Italy, assignor to Pirelli Societa per Azioni, Milan, Italy**
**Application December 8, 1947, Serial No. 790,284**
**In Italy October 18, 1945**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires October 18, 1965**
**9 Claims. (Cl. 251—31)**



2. A high pressure fluid control valve comprising a valve body, a valve chamber within said body having a fluid inlet orifice and a fluid outlet orifice, a rigid valve head slidably mounted in said chamber and adapted to seat directly on said inlet orifice, means movable separately from said valve head for applying a thrust to said valve head lengthwise of its direction of slide, and an expansion diaphragm mounted within said chamber and having a portion fixed with respect to said valve body and said diaphragm encircling said means and adapted to be expanded thereby transversely of the movement of said means, whereby the space between said means and said diaphragm is sealed and leakage of fluid from said chamber around said means is prevented at such times when said inlet orifice is opened.

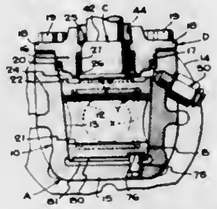


**2,646,246**
**WATER FAUCET**
**Anthony G. Tucci, Cleveland, Ohio**
**Application December 7, 1949, Serial No. 131,526**
**1 Claim. (Cl. 251—46)**



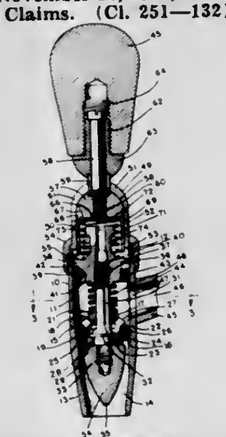
A washer replacement means for a faucet valve of the standard type wherein an annular metallic valve seat surrounds the low pressure end of the valve port and a countersunk inner end of the valve stem carries a disk shaped valve closing washer which bears upon the valve seat, consisting of a valve port sealing washer replacement plug of coniform shape loosely retained upon a cylindrical part of a flanged screw member adapted to be fitted into the threaded end bore of the standard valve stem, said screw member having a rigid flange formation located intermediate its threaded portion and the cylindrical formation thereof and having a flat radial face engaging a flat radial face formed on the upper end surface of the coniform plug whereby a water seal is formed between the upper end surface of the plug and the flange of the screw member when the stem is turned relative to the plug upon seating of the coniform surface of the plug upon the valve seat, and said screw member having a shoulder on the outer end thereof for loosely retaining the valve plug upon the cylindrical formation of the screw member.

**2,646,247**
**SEALING CONSTRUCTION FOR PLUG VALVES**
**Leland S. Hamer, Long Beach, Calif., assignor of one-fourth to Paul A. Dewhirst, Los Angeles, Calif.**
**Application February 28, 1947, Serial No. 731,522**
**2 Claims. (Cl. 251—93)**



1. A plug valve including, two elements, one a body having an elongate portion with a flow passage extending longitudinally therethrough and having a lateral projection on said portion, there being an opening through said projection and intersecting the passage, the other element being a plug in the said opening and rotatably engaged with the portion of the first mentioned element where the said passage and said opening intersect, the plug having a transverse hole through it adapted to be moved into and out of register with the passage by rotation of the plug relative to the body and having a stem projecting through the said opening to the exterior of the body, a unitary cap on said lateral projection and surrounding the stem, the cap having an upper portion with an aperture passing the stem, the stem being rotatably engaged in the portion of the cap defining the said aperture therein, the cap having a lower portion with an annular chamber surrounding the stem and in communication at the bottom of the cap with the said opening, fluid pressure actuated sealing means supported by the cap in the said annular chamber and having sealing engagement with the stem and cap and adapted to be operated by fluid entering said chamber from the said opening, there being channels in one of said elements located between said elements and around the passage where the passage and opening in the body intersect when the said hole is out of register with the passage and adapted to carry sealing material to engage and seal between the body and plug, the channels being in communication with the annular chamber, and a supply means connected with the chamber and adapted to supply sealing fluid thereto.

**2,646,248**
**FAUCET**
**Richard Thomas Cornelius, Minneapolis, Minn.**
**Application November 12, 1948, Serial No. 59,476**
**8 Claims. (Cl. 251—132)**

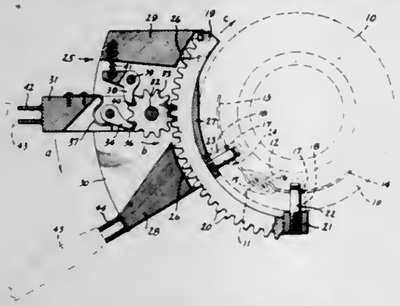


1. In a faucet, an elongated body having a bore therein open at one end, an outlet at the other end of said body and having a passageway communicating with said bore, said passageway being of lesser cross sectional area than said bore to form therewith a shoulder, an insert received within said bore and having a portion seated against said shoulder, said insert having a passageway adapted to bring said bore into communication with said outlet, a valve seat on said insert encircling said passageway, a guide on said insert and concentric with said valve seat, a valve head adapted to seat against said seat, a valve stem attached to said valve head and guided for movement in said guide, said insert having an annular groove facing said bore, a flexible ring within said groove and engaging said insert and the surface of the bore of said body to form a tight connection therebetween, a plunger secured to said stem and having an annular groove facing said bore, a flexible ring within said groove and engaging said plunger and the surface of the bore of said body, an inlet in said body disposed between said rings and operating means for moving said valve stem.

**2,646,249**
**INSTALLATION TOOL FOR CASING PROTECTORS**
**James F. Medearis, Ventura, Calif.**
**Application September 18, 1948, Serial No. 49,972**
**6 Claims. (Cl. 254—66)**

5. An installing tool for applying a tubular cylindrical casing protector to a drill pipe, said

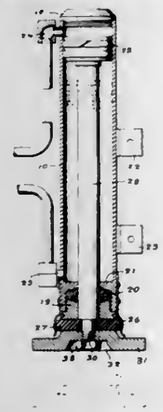
protector being split longitudinally at a given point throughout its length and being formed with pockets in its contiguous edges, said tool including: an arcuate element; an arcuate bearing in which said arcuate element is adapted to slide; pins on said element and said bearing which are adapted to be extended into said pockets when said tool is shifted into operative relation with



said casing protector and said pipe, the curvature of said element and said bearing being so formed as to be substantially concentric with said pipe when said tool is so positioned; and power means for causing relative rotation between said element and said bearing concentric with said protector, with the tool so positioned, to exert a pull on the contiguous edges of said protector to contract the latter about said pipe.

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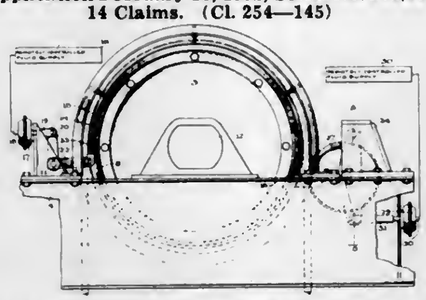
**2,646,250**
**PERMANENTLY MOUNTED MOTOR VEHICLE JACK**
**Antonio L. Fuster, Delano, Calif.**
**Application November 16, 1949, Serial No. 127,654**
**2 Claims. (Cl. 254—86)**



1. In a motor vehicle jack, the combination which comprises a vertically disposed cylinder having mounting clips extended therefrom for attaching the cylinder to an axle of a motor vehicle, a piston positioned in the cylinder, a piston rod extended from the piston and extended from the lower end of the cylinder, a packing gland in the lower end of the cylinder through which the piston rod extends, said piston rod having a threaded stud of a diameter less than that of the piston rod extended from the lower end and positioned to provide a shoulder at the lower end of the piston rod, a friction disc positioned on the said threaded stud, a base plate having a recess in the under surface positioned on the said threaded stud, a nut on the said threaded stud retaining the base plate in position and clamping the said friction disc against the shoulder of the piston rod, spring clips extended from the cylinder and positioned to snap over the peripheral edge of the said friction disc for retaining the piston, piston rod and base plate in elevated positions, a fluid pressure tank, supply and return connections from the fluid pressure tank to upper and lower ends of the cylinder, and a pump connected to the said pressure tank.

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**2,646,251**
**CROWN BLOCK BRAKE ASSEMBLY**
**Claude McInnis Roberson, Shreveport, La.**
**Application February 18, 1952, Serial No. 272,091**
**14 Claims. (Cl. 254—145)**



1. A crown block for guiding the drilling line of oil well drilling apparatus comprising a plurality of sheaves, including a fast-line sheave, said sheaves being freely rotatable with respect to one another, the fast-line sheave having a brake flange mounted thereon, a brake band positioned about the brake flange and movable into gripping engagement therewith, a fluid-operable diaphragm, means linking the fluid-operable diaphragm to said brake band, means for supplying fluid under pressure to said fluid-operable diaphragm to move it in such direction that the brake band is moved into gripping engagement with the brake flange, whereby rotational movement of the fast-line sheave may be opposed, a pressure roller positioned opposite the drill-line-carrying surface of the fast-line sheave and movable toward the fast-line sheave to urge the drilling line against the fast-line sheave, a second fluid-operable diaphragm, means linking the second diaphragm to the pressure roller, and means for supplying fluid under pressure to said second diaphragm to move it in such direction that the pressure roller is moved toward the fast-line sheave and the drilling line, whereby relative movement between the fast-line sheave and the drilling line may be opposed.

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**2,646,252**
**WELL CASING SOIL SAMPLER**
**Harley E. Hylbak, Richland, Wash., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**Application April 11, 1950, Serial No. 155,327**
**8 Claims. (Cl. 255—1.4)**

1. A device for obtaining soil samples from the side walls of wells encased in pipe comprising a drill bit for boring a hole in the pipe, an auger bit for extracting soil specimens through the hole, a ram for plugging the hole, mounting means including a turret on which said bits and ram are mounted radially thereon, a supporting unit including a housing having an aperture at the level of turret and motive means operatively connected to the bits for rotating them about their respective axes, motive means operatively



connected to the turret for reciprocating it to and from the aperture, and motive means operatively connected to the turret for successively actuating the drill bit, the auger bit and the ram in alignment with the aperture.

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**2,646,253**
**DIRECTIONAL DRILLING**
**Daniel S. Johnston, Rolling Hills, Calif., assignor to Signal Oil and Gas Company, Los Angeles, Calif., a corporation of Delaware**
**Application January 3, 1950, Serial No. 136,533**
**4 Claims. (Cl. 255—1.6)**



1. A method of drilling deviated bore holes which comprises advancing a drill string, which includes a drill pipe and a drill, in an inclined bore hole, fulcruming said drill string in said bore hole at a zone in said drill string above said drill, placing an axial stress in said drill string adjacent to and above said fulcrum zone, and placing said drill string below said zone and adjacent said drill in compression, rotating said drill string and advancing said drill in one azimuthal direction and reversing the direction of said rotation and thereby altering the azimuthal direction of said drill.



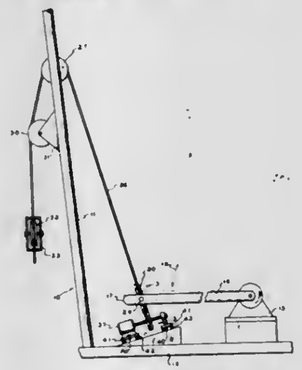
**2,646,254**
**METHOD FOR CONTROLLING DEVIATION IN DRILLING**
**Daniel S. Johnston, Rolling Hills, Calif., assignor to Signal Oil and Gas Company, Los Angeles, Calif., a corporation of Delaware**
**Application September 2, 1950, Serial No. 183,000**
**6 Claims. (Cl. 255—1.6)**



2. A method of rotary drilling of deviated bore holes downward into the earth which comprises rotating, in one direction, a drill string carrying a rotary drill at the end thereof, placing the end of said drill string above said drill in compression and placing the portion of said drill string above said compressed end in axial tension, thereby fulcruming said drill string at a point above said drill and thereby generating a force component in a vertical direction in a vertical plane passing through the axis of the bore hole adjacent said drill, and thereby also generating a force component in the direction perpendicular to said plane to cause the drill to travel in a direction having upward and azimuthal components, and reversing the direction of rotation of said drill string thereby reversing the direction of said force component perpendicular to said plane and causing the drill to travel in an altered azimuthal direction.

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**2,646,255**
**REVOLVING SPUD LINE**
**Benjamin F. Bowman, Clarksburg, W. Va.**
**Application August 29, 1951, Serial No. 244,124**
**8 Claims. (Cl. 255—11)**

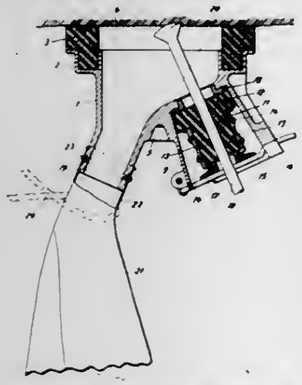


1. In the spudding mechanism of a cable tool drill, a revolving endless looped spud line con-

necting the reciprocating spudder to the reciprocating spud, the reciprocating spudder and the reciprocating spud each having a rotatable sheave about which said spud line is looped, and a rotating member making contact with said endless looped spud line to thereby revolve said spud line and distribute the wear thereover.

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**2,646,256**
**DEVICE FOR DUSTLESS DRILLING IN THE ROCK OF MINES**
**Anton Löbbert, Utfort uber Moers, Germany**
**Application August 17, 1949, Serial No. 110,688**
**In France September 26, 1946**
**2 Claims. (Cl. 255—50)**

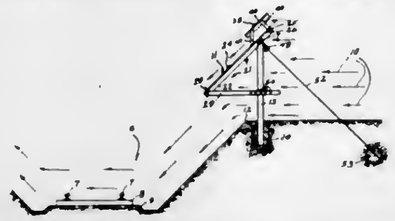


1. In a device for dustless drilling in the rock of mines, a dust-collecting housing including a rigid portion supported by a standard and provided with elastic sealing means adapted to snugly fit around the drill-hole; an opening in said housing defining a shoulder externally of said housing; a tubular portion projecting from and connected to said dust-collecting housing and surrounding said opening thereof; a cross-member extending across and secured to the free end of said tubular portion; a drill extending through said cross-member and said tubular portion and said opening into said dust-collecting housing; elastic packing means arranged in said tubular portion and adapted to snugly surround said drill; a helical spring arranged in said tubular portion between said packing means and said cross-member and adapted to press said packing means against said shoulder while bearing against said cross-member; and a tubular stub for the drill-dust connected to said dust-collecting housing, said cross-member being bifurcated and at one end hingedly secured to said tubular portion, and said tubular portion being provided with locking means adapted to releasably secure the free end of said cross-member in locked position.

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**2,646,257**
**AIR CURRENT DEFLECTOR**
**Elbert C. Krume, Opportunity, Wash.**
**Application September 21, 1951, Serial No. 247,721**
**3 Claims. (Cl. 256—12.5)**

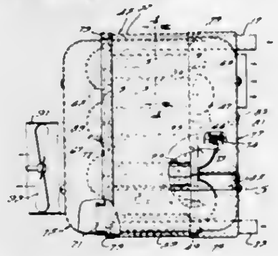
1. An air current deflector comprising spaced supporting posts flattened at their upper end portions and adapted to be anchored with their lower ends positioned in the ground at the brow of a cut, said upper ends being drilled and journal pins carried thereby, angle bars having depending flanges pivotally secured on said journal pins for tilting movement of said angles, an elongated deflector plate having its marginal side edge portions secured upon said angles, said plate extending at a downward incline from an upper leading edge to a lower trailing edge and having corrugations forming ribs extending transversely thereof from its upper leading edge to its lower trailing edge, a stiffener bar secured longitudinally of said plate on its upper face, a brace consisting of a strip secured to the bottom face of said plate along its leading edge and extending longitudinally the full length thereof with its ends secured to said angles, angle ad-



justing braces pivotally secured to lower ends of the depending flanges of the angle bars adjacent the trailing edge of said deflector plate, multiple apertures in said second named braces and spaced longitudinally thereof, stub bolts carried by said posts and provided with clamping nuts, said stub bolts passing through selected ones of said apertures whereby the deflector plate may be tilted to selected angularly adjusted positions, and an auxiliary deflector carried by said deflector plate in upwardly spaced relation thereto for directing air currents downwardly against the upper face of said deflector plate.

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**2,646,258**
**AUTOMOBILE HEATER**
**Phelps M. Freer, Detroit, Mich.**
**Application October 27, 1949, Serial No. 123,841**
**6 Claims. (Cl. 257—137)**



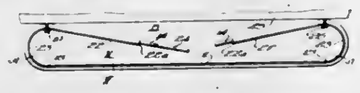
1. A heat exchanger comprising spaced superposed sheets sealingly secured together at their side edges and of sinuous form providing a sinuous coil for heating fluid, said sheets having outward turbulence-provoking bosses thereon, said sheets having inward bosses thereon, portions of the side edges of said sheets being inclined to the plane of the sheets to form radiation and turbulence-provoking fins, an inlet pipe for the coil communicatively secured to one end of the sheets, an outlet pipe for the coil communicatively secured to the other end of the sheets, a box having outward bulges in a pair of opposite sides that conform to and receive and support the recurvities of the sinuous coil, said box sides having inward projections therein engaging the surface of the coil, said box having an opening in a side normal to the sides which support the



sinuous coil whereby the coil may be inserted in the box, a cover for said opening, means yieldably pressing the cover against the secured side edges of the sheets and forcing opposite secured side edges of the sheets against the side of the box opposite the cover, said cover, box and coil defining a core, means providing inlet and outlet openings in the walls of the core, bulges in the cover and the side opposite the cover for directing fluid to be heated from the inlet to the outlet in a sinuous path over the coil back and forth between the cover and the side opposite, flow divider plates having turbulence-provoking ribs thereon located between adjacent sections of the coil, manifold cover means fitting the box over the inlet and outlet openings for the fluid to be heated, spring means associated with the manifold cover means applying yieldable pressure to the cover for the box, said manifold cover means having inlet and outlet openings in communication with the inlet and outlet openings in the core, and impeller means for actuating flow of fluid to be heated, said impeller means being located at the outlet of the core to establish negative pressure in the core, said impeller means being supported upon the manifold cover means.

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**2,646,259**
**CONDENSER**
**Burnet J. Powell, North Chicago, Ill., assignor to Houdaille-Hershey Corporation, North Chicago, Ill., a corporation of Michigan**
**Application February 2, 1950, Serial No. 142,021**
**2 Claims. (Cl. 257—256)**

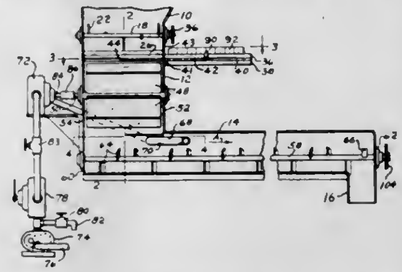


2. In combination, a heat exchanger and a supporting surface therefor, said heat exchanger comprising a backing plate having an elongated central web portion, outturned arcuate portions extending from opposite lateral margins of said central web portion, and elongated marginal flanges extending from the outer margins of said arcuate portions obliquely inwardly toward said central web portion, said backing plate being secured to said supporting surface adjacent the junctures between said arcuate portions and said marginal flanges to define with the supporting surface a coolant flow passage having opposite end walls defined by said arcuate portions and having side walls defined by the central web portion and the supporting surface, said marginal flanges extending in spaced relation to said supporting surface and said central web portion and together traversing a substantial proportion of the extent of said coolant flow passage between the opposite end walls thereof, and a sinuous tube joined to said web portion, said flanges and said arcuate portions.

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**2,646,260**
**FEED MIXING APPARATUS**
**Stanford C. Bates, Rome, N. Y.**
**Application February 15, 1951, Serial No. 211,169**
**3 Claims. (Cl. 259—9)**

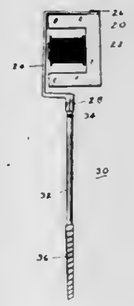
1. A feed mixing apparatus comprising, a feed supply hopper having a bottom wall provided with an elongated rectangular discharge opening, means for fluffing feed within said hopper to continuously supply a quantity of feed for discharge through said opening, a measuring chamber located beneath said hopper and having end walls extending downwardly from the hopper and arranged transversely of the opening at either end thereof, a revolving gate journaled in said end walls on a shaft extending parallel with the longitudinal dimension of said opening and spaced below said opening, said gate comprising rectangular radial vanes uniformly angularly spaced on said shaft of a radial width to sweep close to said opening, and of an axial length commensurate with the length of said opening, plate means slidably mounted between said hopper and measuring chamber and immediately adjacent said bottom wall for regulating the length of said



opening, a mixer chamber beneath said gate having conduit means for supplying a liquid medium to be mixed with feed in said chamber, means for supplying a liquid medium through said conduit means under pressure, a liquid flow motor in said conduit means having a rotary shaft rotatable exactly in proportion to the flow of liquid through said motor and conduit means, and means connecting said shaft with said gate entirely independent of said pressure supply means, whereby said gate is driven or retarded by said shaft, and rotated in direct proportion to the flow of liquid medium through said motor and conduit means.

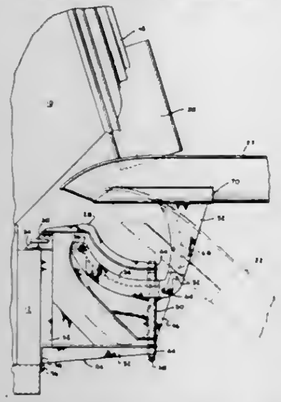
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**2,646,261**
**DEVICE WHICH AERATES WATER**
**Eugene M. Poirot, Golden City, Mo.**
**Application June 23, 1950, Serial No. 169,857**
**5 Claims. (Cl. 259—128)**



1. An agitator that can respond to oscillations to cause aeration of liquids and that comprises a strip of metal that is wound in helical fashion to form a hollow tube, said strip being narrower adjacent the lower end of said tube than it is adjacent the upper end of said tube, whereby said lower end of said tube is more flexible than the upper end of said tube, all of said tube being flexible.

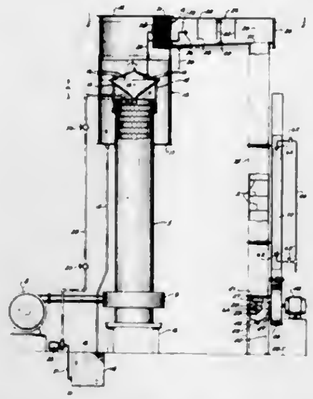
2,646,262
**DISCHARGE CHUTE MOUNTING FOR CONCRETE MIXERS**
**Chris Gerst, Detroit, Mich., assignor to The Transmission & Gear Company, Dearborn, Mich., a corporation of Michigan**
**Application November 21, 1951, Serial No. 257,486**
**6 Claims. (Cl. 259—172)**



1. In a concrete mixer having a mixing drum provided with an opening through which the contents of said drum may be discharged, a chute arranged below the opening in said drum and adapted to receive and distribute the material discharged through said opening, means for supporting said chute for pivotal movement about a vertical and a horizontal axis comprising a frame attached to the mixer, a supporting arm pivotally mounted on said frame for pivotal movement about a vertical axis, a bracket arm secured to said chute, one of said arms having a laterally extending inclined slot therein, a pin secured to the other of said arms and arranged in said slot for sliding movement therein so as to permit longitudinal shifting of said chute relative to said supporting arm, said pin being horizontally disposed and providing an axis about which sad chute is pivotally supported for raising and lowering the discharge end of said chute, stop means on said supporting arm, and means on said bracket engageable with said stop means in a plurality of positions relative thereto for maintaining said chute in a selected elevated position, said means being disengageable from said stop means by shifting movement of said chute relative to said supporting arm so as to permit pivotal movement of said chute about said pin.

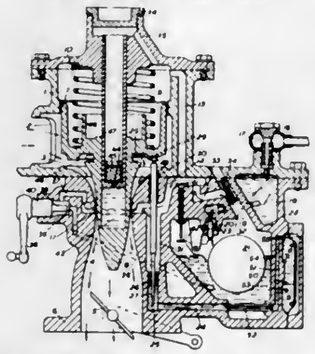
2,646,263
**SMOKE AND SPARK ARRESTER FOR CUPOLAS**
**Max W. Goldberg, West Bend, Wis., assignor to Modern Equipment Company, Port Washington, Wis., a corporation of Wisconsin**
**Application December 27, 1949, Serial No. 135,170**
**3 Claims. (Cl. 261—10)**

1. In a smoke and spark arrester for a cupola wherein said cupola has an open upper end: an enclosure surrounding said upper end of the cupola and having an exhaust opening covered with a screen; an enclosed receptacle mounted within said enclosure at the upper end of the cupola and in a position to be wiped by the flue gases emitted from the cupola; means for introducing a liquid into said receptacle; at least one nozzle for discharging fluid from said receptacle into said enclosure after the liquid therein has been heated by said flue gases: an exhaust chamber communicating at one end with the exhaust opening of said enclosure and having its own exhaust opening at the opposite end thereof; nozzles connected to said receptacle and positioned to discharge heated fluid from said receptacle



against said exhaust opening screen and into said exhaust chamber; means for draining said exhaust chamber; a plurality of spaced transversely extending screens mounted in said exhaust chamber; and an exhaust blower having its inlet communicating with the interior of said exhaust chamber through the exhaust opening of the latter.

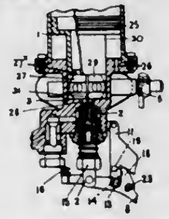
2,646,264
**SELF-FEEDING CARBURETOR FOR INTERNAL-COMBUSTION ENGINES**
**John N. Morris, Birmingham, England, assignor to The S. U. Carburetter Company Limited, Birmingham, England**
**Application June 1, 1950, Serial No. 165,408**
**In Great Britain September 7, 1949**
**6 Claims. (Cl. 261—44)**



6. In a self-feeding carburetor having an air inlet and an outlet, a fuel chamber, a float in said fuel chamber, pressure responsive means in communication with said air inlet, a variable venturi in said outlet, a suction passage system to transfer the pressure at said venturi to said pressure responsive means and to said fuel chamber, means whereby said pressure responsive means controls the effective cross-sectional area of and consequently the pressure in said venturi, valve means in said suction passage system for restricting said transfer of pressure to reduce the ratio of the depression acting upon the pressure responsive means to that obtaining in the venturi so that said reduction in ratio initiates a reduction in said effective cross-sectional area, and a consequent decrease in the pressure in said venturi, at the pressure responsive means and in the fuel chamber, and means for transferring the movement of said float to said valve means after said float has fallen below a predetermined level.



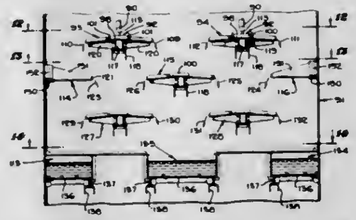
2,646,265
**CARBURETOR**
**Eric G. Bareham, Shirley, Birmingham, and William Layland, Kings Heath, Birmingham, England, assignors to The Austin Motor Company Limited, Birmingham, England**
**Application January 30, 1950, Serial No. 141,212**
**In Great Britain February 21, 1949**
**3 Claims. (Cl. 261—51)**



1. In a carburetor of the constant suction type having a movable jet tube and a throttle operating lever, jet tube operating means comprising a spring loaded actuating lever fulcrumed on the jet tube, a link connected to the actuating lever and engaging the throttle operating lever, a second fulcrum which is fixed, a lost-motion connection between said actuating lever and said second fulcrum, a fixed supporting abutment, and means on said actuating lever adapted to engage said supporting abutment during a portion of the movement of said actuating lever, whereby movement of the actuating lever in one direction takes place first about its fulcrum on the jet tube to effect partial opening of the throttle without moving the jet tube, and then about the second fulcrum to move the jet tube and the throttle operating lever simultaneously to increase the fuel supply and throttle opening proportionately and engage said means on the actuating lever with the supporting abutment, and subsequent movement of the actuating lever in the opposite direction takes place first about the second fulcrum so as to move the jet tube and throttle operating lever simultaneously to reduce the throttle opening and fuel supply proportionately until the jet tube is restored to normal position and said means on the actuating lever is disengaged from the supporting abutment, and then about the fulcrum on the jet tube so as to move the throttle to its normal slow idling position.

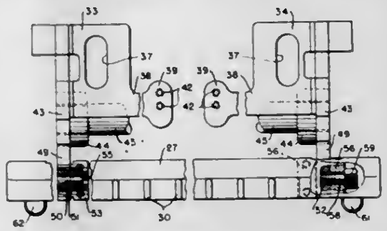
2,646,266
**MULTIPLE FLOW COLUMN**
**Daniel C. Lockwood, South Pasadena, Calif., assignor to C. F. Braun & Co., Alhambra, Calif., a corporation of California**
**Application March 22, 1948, Serial No. 16,302**
**1 Claim. (Cl. 261—114)**

In a vessel of the class described for contacting an ascending column of vapor with a descending stream of liquid, the combination of: a shell, a first transverse splash deck including a horizontal beam extending transversely across the shell and being removably fastened to the walls thereof, a distributor trough mounted along the upper face of said beam, cantilever support plates fastened to and extending laterally from both sides of said beam at spaced intervals therealong, said cantilever plates being tapered with the widest end fastened to said beam, a pair of oppositely inclined deck plates carried on and overlying said cantilever plates and sloping downwardly away from said beam, inner edges of said deck plates underlying the outer edges of said trough, the deck plates each being provided with an upturned lip along its lower edge, a second transverse splash deck similar to said first splash deck positioned below said first splash deck and spaced laterally therefrom so that one of said lips of the



upper splash deck overlies one of the deck plates of said second splash deck, a third transverse splash deck similar to said first splash deck positioned similarly to said second splash deck so that the other of said lips of said first splash deck overlies one of the deck plates of said third splash deck, said one of the lips on said first splash deck cooperating with the lip on said one deck plate of said second splash deck to define the edges of a first passageway for ascending vapor, the other of said lips on said first splash deck cooperating with the lip on said one deck plate on said third splash deck to define the edges of a second passageway for ascending vapor, said beam associated with said first splash deck being remote from the edges of both the first and second passageways to provide maximum unobstructed passage area for ascending vapor.

2,646,267
**RETORT FOR HEATING THE EDGE OF SKELP IN THE MANUFACTURE OF WELDED PIPE OR TUBING**
**Wellington W. Kuntz, Jr., Westfield, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York**
**Application June 25, 1948, Serial No. 35,263**
**2 Claims. (Cl. 263—3)**



1. In a retort for heating the edges of skelp as it moves longitudinally through the retort, a skelp guide support having portions spaced apart longitudinally of the retort, one of said portions having a pin projecting toward the other portion.

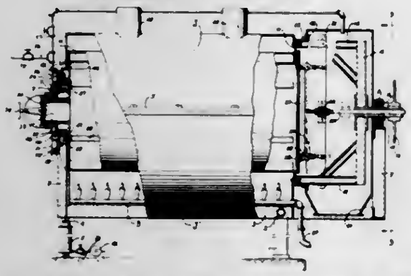
a skelp guide for supporting an edge portion of the skelp spanning said portions of the skelp guide support and having at one end a part provided with an opening adapted to be slipped over the projecting end of said pin, means for detachably and fixedly connecting the other end of the skelp guide to the other portion of the skelp guide support, and a burner block supported on and connected to other portions of the skelp support and related to the skelp guide so that the flames or jets from the burner block are directed against the edge of the skelp as the skelp moves through the retort and is supported and guided by the skelp guide.

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**2,646,268**

## COTTONSEED DELINTING APPARATUS

**Robert L. Jackson, Lubbock, Tex.**
**Application May 28, 1949, Serial No. 95,909**
**4 Claims. (Cl. 263—34)**



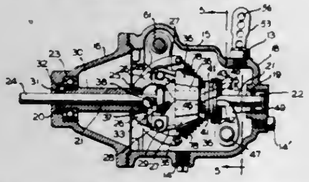
3. In a device for delinting cottonseed, a base, a drum pivotally connected to the base and having a conical end portion, an opening formed in said conical end for passage of cottonseed, closure means for closing said opening in said drum in pressure tight relation, means journalling said drum for rotation, power means connected to said drum in driving relation, a jacket mounted about said drum and forming a furnace chamber, heating means in the chamber positioned beneath said drum so as to position it in a longitudinally separated relation to the opening in said conical end of said drum, conduit means for introducing a halogen gas into said drum while said drum is rotating, and means for tilting said drum relative to said base while said drum is rotating in order to discharge the delinted seed and the combustible lint therefrom to a point exterior of said furnace chamber.

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**2,646,269**

## VARIABLE SPEED CENTRIFUGAL GOVERNOR FOR INTERNAL-COMBUSTION ENGINES AND THE LIKE

**Jarvis S. Jennings, Chicago, Ill., assignor to Hoof Products Company, Chicago, Ill., a corporation of Illinois**
**Application June 29, 1951, Serial No. 234,222**
**11 Claims. (Cl. 264—3)**



1. In a centrifugal governor, a housing, a governor shaft rotatably mounted in the housing, centrifugal means connected to said shaft so as to be operable by the speeds thereof, a spring assembly for resisting the thrust resultants of the centrifugal operation of the governor at various speeds, said spring assembly including a supporting shaft mounted in the housing, at least one pair of springs disposed on opposite sides and at an angle relative to the governor shaft, said springs having inner and outer ends, a yoke member axially slidable on the governor shaft, the inner ends of said springs being connected to said yoke member, means pivotally connecting the outer ends of the springs to said supporting shaft, and yieldable means for normally urging the thrust member axially toward the centrifugal means.

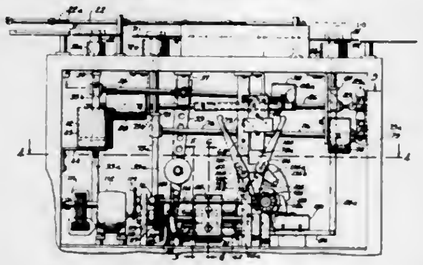
8. A spring assembly for variable speed centrifugal governors having a governor shaft, said assembly including an actuating rock shaft having spaced arms pivotally connected thereto and disposed transversely of the governor shaft, a yoke member axially slidable on the governor shaft, and inclined springs connected to said arms and said yoke member, said springs being disposed on opposite sides of the governor shaft and arranged to assume decreasing angles with respect to the governor shaft axis upon axial displacement of the yoke member.

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**2,646,270**

## WEIGHING MACHINE

**Josephus J. Thayer, Middlebury, Conn.**
**Application August 13, 1949, Serial No. 110,131**
**14 Claims. (Cl. 265—27)**



2. In a machine of the class described, means for registering mechanical impressions of the tare weights of a plurality of containers and for storing such impressions independently of any scale, said means having a base portion and a plurality of rods slidably mounted therein, actuating means for sliding said rods in said base portion to positions determined by a tare weight indicating device, an adjustable tare weight compensating device for association with a gross weight scale, and means successively responsive to the position of said rods for adjusting said compensating device in accordance with the respective positions of said rods to compensate such gross weight scale for the tare weight of containers being weighed thereby.

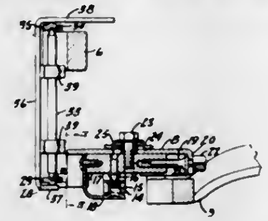
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**2,646,271**

## BALL AND SOCKET STRUT

**Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey**
**Application May 10, 1950, Serial No. 161,195**
**4 Claims. (Cl. 265—27)**

4. In a device for operatively connecting levers of a weighing scale, in combination, a first and a second lever to be operatively connected, a strut, the strut having pointed ends terminating in small spherical sections, each of said levers having a thin portion incorporating a generally conical depression, the minimum radius of curvature at the bottom of the depressions being



less than the radius of the spherical sections of the strut, and a yoke supported on the strut, the yoke having portions juxtaposed to the thin lever portions opposite the ends of the strut to prevent disengagement of the strut and lever portions.

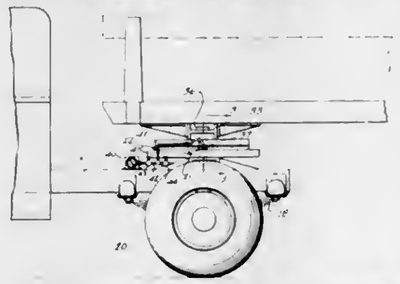


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**2,646,272**

## VEHICLE MOUNTED HYDRAULIC SCALE FOR LOAD CARRYING VEHICLES

**Harley M. Swift, Oregon City, Oreg.**
**Application January 29, 1952, Serial No. 268,723**
**2 Claims. (Cl. 265—40)**



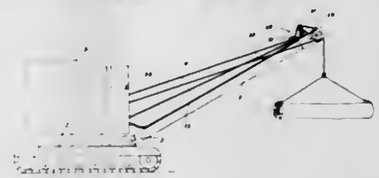
1. In combination with a load carrying vehicle, a weighing scale comprising a disc shaped body of resilient material having flat and substantially parallel side surfaces mounted at one side on said vehicle and having a centrally disposed aperture extending therethrough and a flat annular chamber therein circumspatially surrounding said aperture, an air bleed valve mounted on said body and communicating with said chamber, a tube fitting mounted on said body at a location spaced from said air bleed valve and communicating with said chamber, a fluid pressure gauge mounted on said vehicle, a tubular conduit connecting said tube fitting to said pressure gauge, a body of hydraulic fluid filling said chamber and said conduit, a first pressure plate of annular shape, secured on said body at the side of the latter remote from said vehicle and circumspatially surrounding the aperture in said body, a collar disposed in the opening in said first pressure plate and secured to the latter, said collar having a central aperture therein and projecting from the side of said first pressure plate remote from said body with its surface adjacent said body spaced from the latter, a second pressure plate of annular shape rotatably mounted on said first pressure plate in surrounding relationship to said collar, a work supporting structure secured on said second pressure plate and having an aperture therein registering with the apertures in said collar and said body, and a kingpin extending through said registering apertures to couple said work supporting structure to said vehicle.

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**2,646,273**

## LOAD WEIGHT INDICATOR FOR CRANES

**Cecil L. Wetsel, Sacramento, Calif.**
**Application October 21, 1949, Serial No. 122,740**
**1 Claim. (Cl. 265—47)**



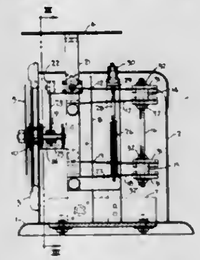
A load-weight indicator for a crane, said crane including a boom, a sheave at the outer end of the boom and a lift cable extending along the boom to and depending about the sheave; the indicator comprising, in combination with said sheave, a pulley on the boom relatively close to but spaced along the boom from the sheave and under which the cable passes, a fluid pressure unit mounted on the boom between the pulley and sheave and including a fluid contacting plunger movable laterally of the cable and a pulley on the plunger engaging and deflecting the cable from a normal straight line of pull between the first named pulley and the sheave; increased tension on the cable acting to shift the plunger in a direction to increase the fluid pressure in the unit, there being a weight indicating gauge actuated by such pressure increase.

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**2,646,274**

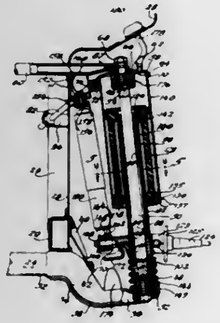
## SPRING WEIGHING SCALES

**Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey**
**Application September 4, 1947, Serial No. 772,075**
**2 Claims. (Cl. 265—68)**



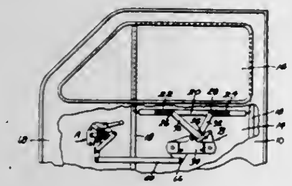
1. In a force measuring device, in combination, a base, a member subjected to the force to be measured, at least two sets of cantilever springs for supporting and guiding the member with respect to the base, each set of springs comprising two connected springs having generally similar deflection characteristics extending in the same general direction and connected one to the member and one to the base, a strut interconnecting the junctions of the sets of springs, said strut being fixed in the springs against movement lengthwise of the springs, and adjustable clamp means operatively connected to the strut and springs for varying the active length of the springs.

**2,646,275**
**SPRING MEANS**
**Nils Erik Wahlberg, Chicago, Ill., and Gustav V. Hedstrom, Kenosha, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland**
**Original application January 22, 1942, Serial No. 427,706, now Patent No. 2,437,844, dated March 16, 1948. Divided and this application July 8, 1947, Serial No. 759,484**
**5 Claims. (Cl. 267—63)**



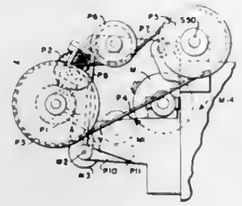
1. A spring for a wheel suspension system comprising a cylinder of deformable material, an annular plate having a flange about its outer rim, and an annular ring of channel shaped cross section secured to said plate and spaced inwardly from said flange, the end of said cylinder being integrally bonded about the outer portions of said plate and said ring.

**2,646,276**
**WINDOW REGULATOR**
**Chester T. Fezzey, Detroit, Mich., assignor to Accessory Makers, Detroit, Mich., a partnership**
**Application July 10, 1952, Serial No. 298,083**
**2 Claims. (Cl. 268—126)**



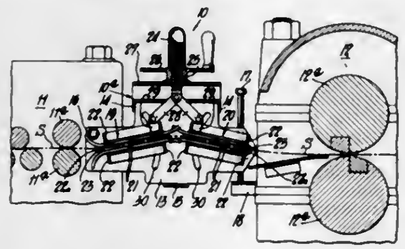
1. A regulator mechanism for a vehicle window comprising, an actuating mechanism, a lifting mechanism, an actuating bar connecting said actuating mechanism for imparting movement from said actuating mechanism to said lifting mechanism, said lifting mechanism including a supporting plate, a pair of bell crank levers each having a relatively long free end portion and a relatively short angular end portion, the long free end portions being adapted for window movement engagement, said arms being pivotally connected to said supporting plate and arranged in cross relation for movement of each arm past the pivotal connection of said other arm, and a link interconnecting the short end portions of said arms.

**2,646,277**
**APPARATUS FOR DELIVERING WELDED WIRE FABRIC**
**William S. Southwick, East Lynn, Mass., assignor to Thomson Electric Welder Company, Lynn, Mass., a corporation of Massachusetts**
**Application June 14, 1949, Serial No. 98,982**
**2 Claims. (Cl. 271—2.3)**



1. An apparatus for delivering and controlling the tension and speed of welded wire fabric drawn from a supply thereof comprising a pair of pinch rolls between which said fabric is delivered and by means of which said fabric is drawn from said supply, a support structure, an axle for one of said rolls journalled in said support structure, a driven pulley mounted on said axle, a driving shaft and pulley mounted on said support structure, a driving belt passing around said pulleys, an arm pivoted on said support structure, an idler pulley mounted on said arm normally pressing against a reach of said belt to tension said belt about said pulleys, a supporting arm pivoted on said support structure, a shaft and guide roll mounted on said supporting arm, said guide roll normally pressing against said fabric between said supply and said pinch rolls and movable toward and away from said fabric, and a link pivotally connected at each end to each of said arms whereby said guide roll moves said idler pulley in a direction away from said reach of said belt to relax the tension in said belt whenever the feeding speed of the fabric in contact with the guide roll is slower than its delivery speed from said pinch rolls.

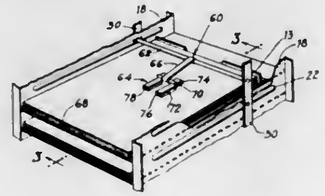
**2,646,278**
**PASS-LINE STABILIZER FOR STRIP APPROACHING A SHEAR**
**Lawrence R. Partridge, Wainut Creek, Calif., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application January 19, 1951, Serial No. 206,805**
**11 Claims. (Cl. 271—2.3)**



1. Apparatus for stabilizing the excess strip between a shear and a pair of feed rolls spaced therefrom comprising a pair of guide frames disposed side-by-side and lying generally in the plane of the pass line through the rolls and shear, each frame including spaced upper and lower guide members defining a clear space therebetween through which the strip travels, means pivotally mounting the edges of the frames adjacent the rolls and shear, respectively, and common means for tilting both frames out of the pass line to substantially the same degree, whereby the frames are effective to confine the strip passing therethrough to a predetermined path bowing away from said pass line.

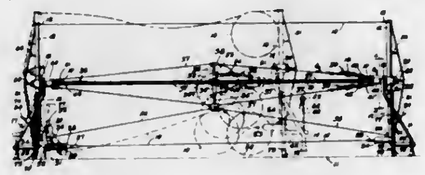


**2,646,279**
**MECHANICAL COLLATOR**
**Wilbur E. Thomas, Cranford, N. J.**
**Application September 17, 1947, Serial No. 774,584**
**1 Claim. (Cl. 271—42)**



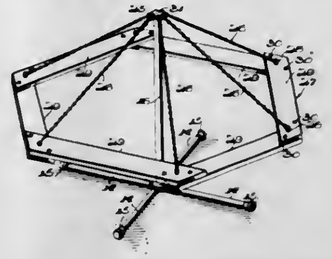
In a collator or the like, a sheet-ejector device comprising a reciprocating element, an arm pivotally mounted thereon for rocking movement, a finger pivotally mounted on said arm, said finger including a section extending rearwardly of said pivot, a return bend and a section extending forwardly therefrom, said forwardly extending section carrying a flat traction element.

**2,646,280**
**TIGHT WIRE RIGGING**
**Frank P. Evers, Los Angeles, Calif.**
**Application December 8, 1951, Serial No. 260,648**
**10 Claims. (Cl. 272—21)**



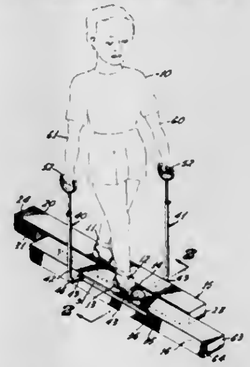
1. In a self-contained tight wire apparatus, a pair of vertical masts, a horizontal boom to the respective ends of which said masts are pivotally connected for pivoting movements in a common vertical plane coincident with the axis of said boom, a tight wire attached to the respective upper ends of said masts and adapted to be stretched therebetween as the result of application of a tension load between the lower ends of said masts, tensioning means attached to and connecting the lower ends of said masts, said tensioning means including a flexible tension element and means for imposing thereon a tension load selected to provide the desired tension in the tight wire, and supporting means upon which said masts are carried, said supporting means comprising individual supports for the respective masts.

**2,646,281**
**UNDULATORY MERRY-GO-ROUND**
**Clay E. Hurst, Chincoteague, Va.**
**Application April 16, 1951, Serial No. 221,262**
**1 Claim. (Cl. 272—33)**



A portable, knockdown, undulatory merry-go-round capable of rotating motion, see-saw motion, and a combination thereof constructed of parts which in knockdown condition form a small package, comprising a vertical center post, a bearing in the top of said center post, a horizontally disposed cross member rigidly secured to the bottom of said center post, horizontal pipe legs detachably secured to said cross member, a head piece having a bearing pin rotatably positioned in said bearing and an upper horizontally disposed supporting disc positioned above said center post, six flexible seat supporting members pivotally connected to said head piece for vertical movement with respect thereto, and a hexagonal seat structure having straight seat elements joined together at their ends in overlapped relationship to provide alternate high and low seats annularly of said center post, said seat structure being connected at the junctions of said straight seat elements to the lower ends of said flexible seat supporting members and vertically positioned about half way between the ends of said vertical center post, said supporting members being of a length to form an angle between diametrically opposed supporting members of about 90° to 120° to enable one of the occupants to rise to a position above the top of the center post.

**2,646,282**
**COORDINATION AID FOR WALKING**
**Bernice Ringman, Los Angeles, Calif.**
**Application July 30, 1949, Serial No. 107,774**
**5 Claims. (Cl. 272—70)**

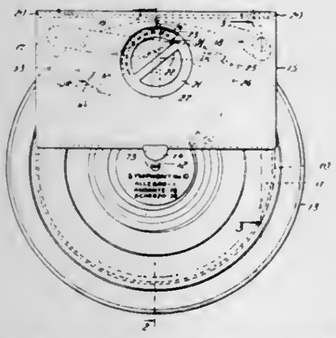


3. In a walking aid comprising a pair of movable foot support means, each having a front

end, a back end, and inner and outer side edges including foot securement means thereon, means on said foot support means for guiding forward and backward reciprocal movement of said respective foot support means relative to one another, said guiding means including hand-hold means extending upwardly relative to said respective foot support means, the improvement comprising each of said foot support means having a longitudinally extending horizontal slot means therethrough from side to side thereof, said slot means being relatively vertically spaced, said guiding means including said hand-hold means extending from corresponding of said foot support means through said respective slot means to a position alongside and outwardly of the outer side edge of the other of said foot support means and alongside the outside of the foot securement means on said other foot support means.

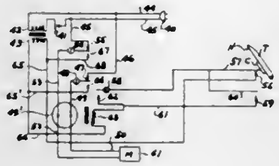
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**2,646,283**
**RECORD PLAYER**
**Daniel P. Doncaster, Long Island City, N. Y., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York**
**Application April 9, 1948, Serial No. 19,924**
**7 Claims. (Cl. 274—2)**



1. In a phonograph, the combination which comprises a support mounting a turntable adapted to receive a record, a cover hinged to said support and extending over at least a portion of said turntable, a reproducer arm pivotally mounted on the under side of said cover and adapted to engage a record on said turntable when the cover is lowered, the pivot point of said arm being located so that the arm drops by gravity from its record-finishing position to its record-starting position when the cover is raised, a starting position setting device having a locating member positioned to limit the fall of said reproducer arm when the cover is raised and thereby establish the starting position thereof on said record, said setting device having adjustable means for setting the position of the locating member, an electric motor coupled to drive said turntable, a control switch and actuating mechanism therefor mounted on said cover, said control switch being in circuit with said motor, biasing means associated with said actuating mechanism biasing said switch toward the "off" position when the cover is in closed position and toward the "on" position when the cover is in raised position, and releasable detent means mounted on said cover for retaining said actuating mechanism in the "on" position, said detent means having an element positioned to be actuated by said reproducer arm to release said actuating mechanism when the arm reaches the end of a record.

**2,646,284**
**RECORD ADAPTER AND AUTOMATIC SPEED CHANGER**
**Herbert B. Weingarden, Detroit, Mich.**
**Application September 23, 1950, Serial No. 186,369**
**2 Claims. (Cl. 274—9)**



1. In combination with an automatic record changer and a playing machine having a turntable, a driving motor therefor and a needle carrying tone arm; an electrical circuit joined to a power source and connected to said motor to energize the same for driving said turn-table at a pre-determined speed, a second electrical circuit including a step-down transformer with the primary connected to said power source, a double pole double throw relay switch including stationary switch contacts in said first and second circuits and movable contacts for alternately closing said first and second circuits, the secondary of said transformer being connected through a pair of said stationary switch contacts to said motor, a magnetic control coil in said second circuit adapted to operate said movable contacts for switching energization of said motor from said first circuit to said second circuit whereby said motor driven turn-table is rotated at a reduced speed, a stationary contact connected with said coil, and a contactor on said tone arm connected through said second circuit with said secondary, said contactor being momentarily engageable with said coil contact for energizing said magnetic control coil, said coil rendering said relay switch self-energizing for maintaining said second circuit closed.

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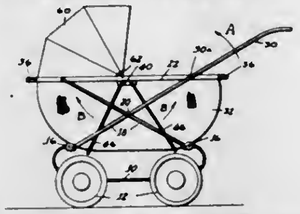
**2,646,285**
**SKID FOR PORTABLE BUILDINGS**
**Harold V. Snyder, Iowa Falls, Iowa**
**Application April 23, 1951, Serial No. 222,361**
**1 Claim. (Cl. 280—27)**



In a skid for portable buildings wherein a runner is formed of a plurality of units placed end to end, a plurality of downwardly opening channel sections astride said runner units whereby the depending flanges thereof engage the sides of the runner units, each joint of the runner having one of said plurality of channel sections centered thereover, and each of said channel sections further having a plurality of transverse channel sections fixedly secured to the back face thereof in spaced relation and opening upwardly whereby the transverse channel sections may engage adjacent floor joists of a portable building to which the skid is applied.



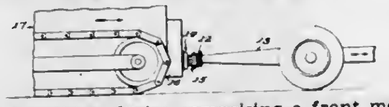
**2,646,286**
**BABY CARRIAGE CONVERTIBLE TO A BASSINET**
**William C. Troendle, Gardner, Mass., assignor to Thayer Company, Gardner, Mass., a corporation of Massachusetts**
**Application October 11, 1948, Serial No. 53,982**
**3 Claims. (Cl. 280—31)**



1. A convertible baby carriage comprising a wheeled frame, a separable carriage body frame, means to suspend detachably the carriage body frame from the wheeled frame, a folding carriage body on the carriage body frame, supports for the carriage body frame to provide for holding the folding carriage body in extended condition when the carriage body and body frame are separate from the wheeled frame, said supports comprising a pair of arms, latch plates on the carriage body frame, each arm being pivoted on a separate pin on each latch plate, means providing for a slight rectilinear motion for said arms on the latch plates, interengaging means on the latch plates and their respective arms to latch the arms selectively in either of two pivoted positions, springs to draw the arms rectilinearly into the latched positions thereof, one of the positions of the arms being along the sides of the carriage frame so that the folding carriage body may be folded, and the other position being an extended position of the arms to provide for extension of the carriage body when the extended arms support the carriage body frame in raised condition.

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**2,646,287**
**VEHICLE PUSH BLOCK ATTACHMENT**
**Aimo J. Kytola, Park River, N. Dak.**
**Application October 12, 1951, Serial No. 251,012**
**9 Claims. (Cl. 280—33.13)**



1. A pushing device comprising a front member, a rear member, one of said members being adapted for attachment to one mobile machine, the other of said members being adapted to abut another mobile machine, a coupling block between said members, upper and lower flanges projecting from one of said members and disposed over and under said block respectively, vertical-axis pivot means connecting said upper and lower flanges with said block, laterally spaced flanges projecting from the other of said members and straddling said block, and horizontal-axis pivot means connecting said laterally spaced flanges with said blocks, said upper and lower flanges having curved thrust edges concentric with said vertical-axis pivot means, said laterally spaced flanges having curved thrust edges concentric with said horizontal-axis pivot means, said block having arcuate thrust shoulders abutting said thrust edges, whereby all of said pivot means are relieved of pushing strain.

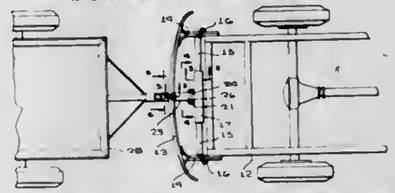
**2,646,288**
**WAGON HITCH WITH AUTOMATIC UNIT AND LEVER RELEASING GEAR**
**Raymond P. Grigsby, Aurora, Nebr.**
**Application January 2, 1951, Serial No. 203,855**
**3 Claims. (Cl. 280—33.15)**



3. In a farm implement having a rear transverse portion and a rearwardly extending tongue fixed to and extending rearwardly from said transverse portion, a wagon hitch with automatic coupling unit and lever releasing gear comprising a draft bar having forward and rear portions, a clamp engaging said transverse portion adjacent said tongue, a rigid attaching arm fixed at one end to the clamp, the other end of said arm overlying said tongue, a vertical pin extending downwardly through the forward portion of said bar and also extending downwardly through the arm and the tongue, the rear portion of said bar being provided with a V-shaped pin seat, a cam surfaced hook member pivoted to said bar forwardly of said pin seat and adapted to engage about a pin seated in said seat, means urging said hook member toward the apex of said seat with the cam surface of said hook member extending across the pin seat to be engaged by a pin entering the seat, a horizontally swingable member centrally pivoted to the arm, a pitman having a rear end pivoted to the hook member and a vertical pivot securing the forward end of the pitman to one end of the horizontally swingable member, said pivot being vertically aligned with the pin, whereby said hook member may be pivoted by movement of said arm regardless of the angular relation of said bar to said transverse portion, a plate secured to the undersurface of said bar and including a rear offset end portion that underlies the bar and which terminates in a V-shaped end that underlies said seat, said hook member being pivotally mounted between said bar and said offset end portion.

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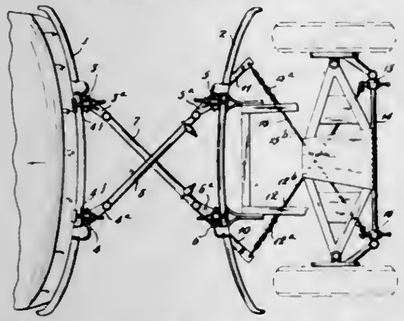
**2,646,289**
**MOUNT FOR TRAILER HITCHES**
**Arthur F. Smith, Trenton, N. J.**
**Application July 25, 1952, Serial No. 300,818**
**2 Claims. (Cl. 280—33.44)**



1. A mount for a trailer hitch for an automobile having a rear bumper and laterally spaced bumper brackets connecting said bumper thereto in rearwardly spaced relation, said mount comprising a pair of bar members adapted to extend between said brackets, means detachably connecting said bar members to said brackets, a sleeve element slidably receiving said bar members, clamping means on said sleeve element lockingly engageable with said bar members, a rear-

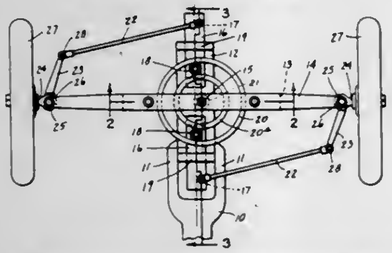
wardly directed hitch member, a transverse head element rigidly secured to said hitch member, a vertical guide on said sleeve element slidably receiving said head element for vertical adjustment in said guide, a clamping member on said head element lockingly engageable with said guide to secure the hitch member in vertically adjusted position, said hitch member being adapted to underlie said rear bumper, and a clamping member secured to said hitch member and being formed to lockingly engage the top edge of the bumper.

**2,646,290**
**TOWING DEVICE WITH STEERING ATTACHMENT**
**Rodney S. Cox, Marion, Ohio**
**Application August 25, 1950, Serial No. 181,504**
**8 Claims. (Cl. 280—33.55)**



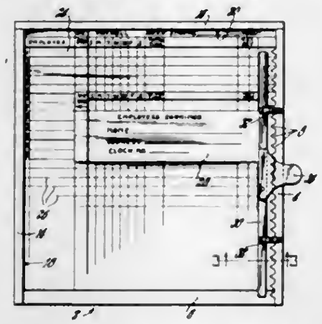
1. A vehicle towing mechanism comprising a pair of crossed bars, a vehicle attaching bracket pivotally attached at each end of each bar, an arm rigidly carried by each bar adjacent one end of each bar, each arm forming an extension of the bar to which it is attached, a pair of flexible members, one end of each of said members attached to an arm and the other end of each flexible member having means for attachment to the steering mechanism of a vehicle.

**2,646,291**
**VEHICLE SHORT TURN STEERING APPARATUS**
**Don C. Chambers, Bloomington, and Wilburn D. Chambers, Indianapolis, Ind.**
**Application February 18, 1950, Serial No. 144,956**
**4 Claims. (Cl. 280—103)**



2. A vehicle steering construction comprising a tongue, an axle having a pair of wheels mounted thereon, a pair of annular members connected to said axle and being concentrically disposed relative to each other, a longitudinally disposed guideway secured to said tongue and extending transversely of said axle, a pair of slidable elements, each element of the pair being disposed in said guideway on opposite sides of said axle and having a roller interposed between said members and engageable therewith, the axis of said concentric members being disposed in off center relation to the axes of said rollers and to the longitudinal center line of said vehicle, whereby each of said elements is moved longitudinally in opposite directions respectively relative to said guideway as said tongue is laterally swung in opposite directions, and independent means connecting each of said wheels to a corresponding element on opposite sides of said axle.

**2,646,292**
**MULTIPLE RECORDING OF INFORMATION**
**Leo Perkel, Hartford, Conn.**
**Application August 6, 1952, Serial No. 302,920**
**1 Claim. (Cl. 282—29)**

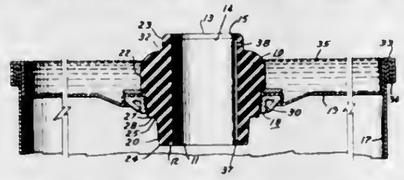


A structure for supporting superposed sheets having longitudinally spaced lines and notches aligned with said lines in edges thereof and for releasably holding said sheets with the notches thereof in register comprising, a rigid support having an upper flat sheet supporting face for superposed sheets and an elongated relatively narrow strip portion along an edge thereof provided with an inner longitudinal edge adjacent said flat face and extending upwardly from said face, said inner edge of the strip portion provided with keys extending towards said supporting face and spaced longitudinally thereof in accordance with the spacing of the notches of sheets to be placed on said face and being receivable in said notches, an elongated rigid hold-down member having a manually engageable portion, and resilient hinge means connected to said hold-down member and to said strip portion arranged to locate said hold-down closely adjacent said keys and over the notched edges of sheets on said face and adapted to urge said hold-down downwardly into sheet holding position and to yield for removal of sheets therebelow, said support provided in the supporting face thereof with depressions disposed below said keys and said keys being displaced downwardly whereby lower portions thereof depend into said depressions.

**2,646,293**
**BUNGHOLE ADAPTER**
**Russell J. Gray, Meadeville, Minn.**
**Application October 11, 1949, Serial No. 120,643**
**2 Claims. (Cl. 285—30)**

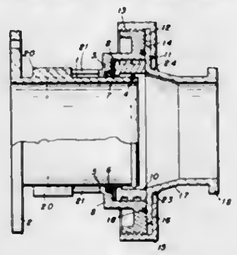
1. A flexible, resilient, generally tubular bunghole adapter for sealingly positioning a riser pipe in the bung-hole of a drum or barrel, said adapter being moulded of an oil-resistant synthetic rubber or like plastic and having a bore therethrough, a resilient sealing ring formed near the upper end of said bore and having an inner diameter slightly less than the diameter of said bore, said adapter having a plurality of successive stepped bung-hole engaging bushing portions of successively larger outer diameters surrounding said bore, with the smallest diametered bushing portion at the bottom of the adapter and the largest diametered bushing portion being the uppermost of said bushing portions, a cap portion above the largest diametered bushing portion, said cap portion having an outer diameter larger than that of the uppermost bushing portion, and a small-diametered neck portion above said cap portion, said neck portion carrying the aforesaid sealing ring, a vent groove





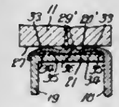
formed in said bore, longitudinally thereof from a point near the lower end of said adapter to a point near the upper end of said adapter but below said sealing ring, and a vent hole communicating with said vent groove; said bung-hole engaging bushing portions having tapered outer surfaces with the small end of each tapered surface at the lower end thereof, and a transverse shoulder intermediate the successive bushing portions and a transverse shoulder intermediate the uppermost bushing portion and said cap portion; the vertical distance between said vent hole and the transverse shoulder intermediate the cap portion and the uppermost bushing portion being greater than the effective depth of the drumhead on which said adapter is to be used.

**2,646,294**
**DISCONNECT COUPLING**
**Gordon H. Anderson, Inglewood, Calif., assignor to North American Aviation, Inc.**
**Application December 27, 1949, Serial No. 135,069**
**1 Claim. (Cl. 285—127)**



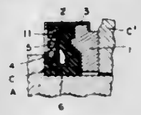
A coupling comprising a first tubular member; an annular body member around an end portion of said first tubular member, said body member having a rounded inner edge adjacent said first tubular member whereby said tubular member is tiltable about said edge and axially movable relative thereto, said body member having a portion spaced from said tubular member thereby defining a circumferential recess, and further having a flat radial face portion; a second tubular member, said second tubular member having a flat radial end flange adapted to abuttingly engage said body member face with freedom for radial movement relative thereto; releasable means for holding said flange in engagement with said face in any relative radial position; a first sealing means interposed between said flat radial face portion and said second tubular member end flange; a second sealing means interposed between said body member and said first tubular member; spacer means in said circumferential recess interposed between said second tubular member end flange and said second sealing means for urging said second sealing means against said first tubular member and said body member when said second tubular member is held against said body member flange; and lock means at the end of said first tubular member for preventing removal of said body member therefrom.

**2,646,295**
**OIL SEAL CONSTRUCTION**
**John H. Victor, Wilmette, Ill., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill., a corporation of Illinois**
**Application August 26, 1950, Serial No. 181,604**
**2 Claims. (Cl. 286—5)**



1. A sealing device for forming a fluid tight seal between a bore in a housing and a shaft that projects through that bore, comprising: a metallic cuplike shell consisting of a wave-shaped outer wall the crests of which are adjacent its ends and a valley of which lies between the crests, and a planar wall projecting radially inwardly from one end of said outer wall; a flexible sealing element fixed to said planar wall and projecting inwardly therefrom to engage the shaft and form a seal therewith; a plurality of ridges rising out of the valley in said outer wall and projecting radially outwardly beyond the apexes of the crests therein and adapted to be deformed by engagement with the bore in said housing to form a fluid tight seal therewith; and a reinforcing member comprising a cylindrical portion snugly engaging the inner surface of said outer wall and a radial portion extending inwardly from the end of the cylindrical portion away from said planar wall for strengthening the outer wall against distortion by the pressure placed thereupon by said ridges.

**2,646,296**
**PACKING FOR USE BETWEEN ROTATABLE AND FIXED PARTS**
**Paul Destoumieux, Neuilly-sur-Seine, and Maxime Amirault, Anthony, France**
**Application February 18, 1949, Serial No. 77,236**
**In France June 14, 1944**
**1 Claim. (Cl. 286—11)**

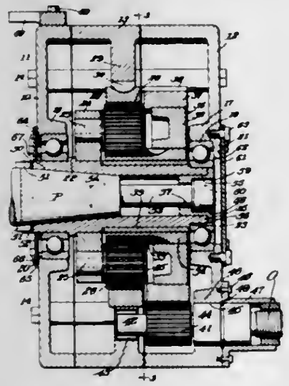


A packing seal to be interposed in fluid-tight relationship between a rotary shaft and a fixed casing having a radial surface at about right angles to an axis surface and surrounding said shaft, comprising an elastic sleeve about the shaft within the casing which is provided with a radially projecting portion extending outwardly from said shaft and an axially extending portion surround-

ing said shaft at about a right angle to said radially projecting portion, said axially projecting portion having a raised shoulder at its end opposite the radially projecting portion, a friction ring within said casing laterally abutting the upper radially projecting portion of said sleeve and the inner radially projecting surface of said casing, a clamping ring between the inner axial surface of said casing and the upper radial portions of said friction ring and said sleeve, said clamping ring provided with return bend portions to secure said sleeve and said friction ring at the top and at opposing sides of said sleeve and ring in fluid-tight relationship to permit the assembly to slide on said shaft, said friction ring cut back at its upper radial and upper axial surfaces to form a recess which permits the interfitting engagement of the clamping ring and friction ring, said clamping ring having a holding portion projecting radially towards said shaft and terminating adjacent the inner edge of said shoulder, an inner ring fitting radially below said clamping ring and enclosing said shoulder, a conical spiral spring disposed radially towards said shaft held between said clamping ring and said terminating end of said inner ring and said shoulder, said spring pressing said friction ring in fluid-tight engagement with the inner radial surface of said casing and an annular concentric distance ring secured to said clamping ring between said return bend portion and said shaft which rotates with said clamping ring, said clamping ring connected to said assembling ring by means of an interlocking annular joint.

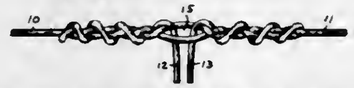
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**2,646,297**
**COUPLING**
**Andrew B. Crichton, Jr., Johnstown, Pa., and Carl G. Wennerstrom, Chicago, Ill.; said Wennerstrom assignor to The Crichton Company, Johnstown, Pa., a corporation of Delaware**
**Application October 11, 1948, Serial No. 53,904**
**4 Claims. (Cl. 287—53)**



1. A device of the class described comprising an input shaft, a hollow power receiving shaft for coupling engagement with said input shaft insertable from one end of the hollow shaft into the hollow thereof, a saddle fitted in one end of the hollow shaft having a portion extending into said hollow and a portion abutting against the adjacent end wall of said hollow shaft, and a draw device mounted by said saddle for co-action with the input shaft.

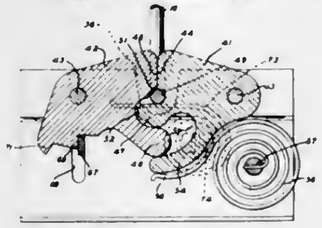
**2,646,298**
**METHOD OF KNOT TYING**
**Joseph C. Leary, Greenfield, Ind.**
**Application July 15, 1952, Serial No. 298,935**
**6 Claims. (Cl. 289—1.5)**



3. A method of tying together a pair of cord ends comprising the steps of arranging end lengths of said cords in overlapping, substantially parallel juxtaposition, holding the distal portions of said cords stationary relative to said cord lengths, inserting the end of a rod between said cord lengths substantially midway between said distal portions, rotating the rod end-for-end in a plane substantially normal to the axes of said cord lengths to form a series of twists in said cord lengths on each side of said plane, bringing the distal portions of said cords to positions near said rod and holding them stationary relative to the cord lengths, again rotating said rod end-for-end in the same direction as first rotated to form a series of wraps about the series of twists first formed, removing said rod from between said cord lengths, and thereafter inserting the extremities of said distal portions of said cords between the cord lengths at the point from which said rod was removed.

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**2,646,299**
**HOOD LATCH**
**Clarence F. Kramer, Birmingham, Mich., assignor to Ford Motor Company, Detroit, Mich., a corporation of Delaware**
**Application August 17, 1950, Serial No. 179,985**
**1 Claim. (Cl. 292—44)**

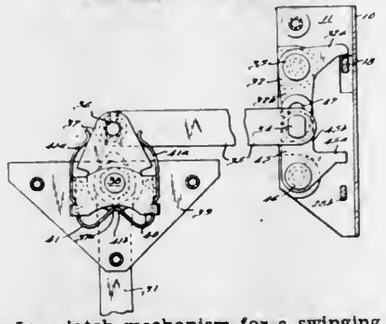


In a motor vehicle having a pivotally mounted hood with a U-shaped striker depending therefrom and a body member beneath the forward end of said hood having an opening for the striker to pass through, a latch device comprising a U-shaped bracket having front and rear walls positioned beneath said body member and extending transversely of said vehicle in a vertical plane, horizontal attaching flanges on the front and rear walls of said bracket attached to said body member, a pair of interlocked cam members pivotally mounted between the front and rear walls of said bracket about laterally spaced horizontal axes, jaw portions on said cam members engageable with said striker, a spring urged pawl pivotally mounted on one of the walls of said bracket and projecting through an elongated slot in said last-mentioned wall into the space between said walls, a ratchet tooth on one of said cam members engaged by said pawl to hold said cam members in striker retaining position, spring means acting upon the other of said members to simultaneously move said cam members toward their open unlatched position upon release of said pawl from said ratchet tooth, and a second tooth on said first mentioned cam member engaged by said pawl in the unlocked position of said cam members to limit their movement, said elongated slot permitting movement of said pawl between positions engaging said first and second teeth but preventing movement of said pawl to a point out of engagement with both of said teeth.



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**2,646,300**
**DOOR LOCK**
**John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan**
**Application November 15, 1951, Serial No. 256,553**
**10 Claims. (Cl. 292—280)**

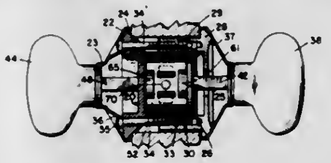


1. In a latch mechanism for a swinging door, a support having a plate portion for disposition at the free edge wall of the door and having a flange extending from the inner edge thereof, a rotatable latch device pivotally mounted on said plate portion, detent means pivotally mounted on said plate portion and engageable with said latch device for holding the same in door latching position, outer manually operable means including a lever pivotally mounted on said plate portion for pivotally actuating said detent means thereby to disengage the latter from said latch device, a member mounted for swinging movement on said plate portion, and inner manually operable means comprising an actuator shiftable in opposite directions, two bell crank levers pivotally mounted on said flange for swinging movement about spaced axes, means pivotally connecting said actuator to said bell crank levers, one of said bell crank levers having a part thereof in opposing relation to a part of said detent means and the other of said bell crank levers having a part thereof in opposing relation to a part of said member, said actuator upon being shifted in one direction causing said one bell crank lever part to abut said detent means thereby to disengage the same from said latch device and said actuator upon being shifted in the opposite direction causing said other bell crank lever part to abut said member part and swing said member into a position in which a portion thereof will block pivotal movement of said first mentioned lever thereby to render said outer manually operable means ineffective to effect disengagement of the detent means from said latch device.

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**2,646,301**
**MOUNTING MEANS FOR DOOR LATCHES**
**Robert C. Cerf, Jr., Los Angeles, Calif., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif., a corporation of California**
**Application February 8, 1951, Serial No. 210,064**
**2 Claims. (Cl. 292—337)**

1. In a knob-actuated door latch a retractor housing adapted to be mounted in a cylindrical hole bored through a door in axial alignment with the knob spindles comprising a cylindrical body having aligning grooves in the exterior cylindrical surface disposed parallel to the axis of said cylindrical body, a fixed clamping rim attached at one end of said housing, said fixed clamping rim being adapted to abut the margin of the hole in said door and to extend into and align itself with the cylindrical wall of said hole, a separable



clamping plate at the end of said housing opposite said fixed clamping rim, said separable clamping plate being provided with inwardly extending studs disposed to slide in and fit into said aligning grooves, and screw means for extensibly connecting the ends of said studs to said fixed clamping rim, said grooves and said studs coacting to maintain the axial alignment of said cylindrical body and said separable clamping plate.

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**2,646,302**
**EXTENSION KEEPER PLATE**
**Baldassare Viola, Detroit, Mich.**
**Application March 27, 1951, Serial No. 217,779**
**4 Claims. (Cl. 292—340)**



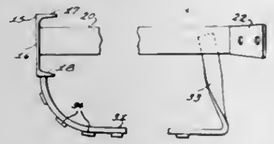
1. An extension keeper arrangement for automobile trunk locks, including a mounting plate adapted to be secured in a trunk and having a hinge portion thereon, a pivot plate having a corresponding hinge portion thereon, means pivotally connecting the two hinge portions, said pivot plate being offset intermediately of its length and adapted to bear against a keeper and to project upwardly thereover, and means on the pivot plate for engaging a latching means on the lid of the trunk for locking said lid in a partially open position.

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**2,646,303**
**TRACTOR BUMPER**
**Harold A. Ferrell, Halifax, Va.**
**Application June 16, 1950, Serial No. 168,509**
**4 Claims. (Cl. 293—64)**

1. In combination with a tractor having a front axle and a grille structure extending above and below said front axle adjacent thereto, a bumper and grille protector comprising an elongated bumper bar disposed in substantially horizontal position in front of said grille structure and substantially at right angles to the longitudinal center line of said tractor, elongated bracket arms secured to said bumper bar one near each end of the bumper bar, each of said bracket arms being

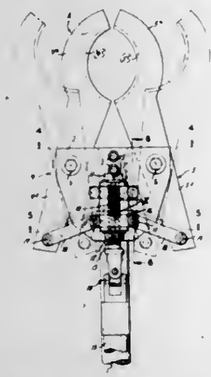
secured at one end to said bumper bar and projecting from the same side thereof substantially symmetrically of a plane perpendicularly bisecting said bumper bar, fasteners connecting said bracket arms at their ends remote from said bumper bar to said front axle, runner shaped braces disposed respectively below said bracket



arms and each secured at its front end to said bumper bar and at its rear end to the corresponding bracket arm at a location spaced rearwardly along the corresponding bracket arm from said bumper bar, and slats extending across the space between said braces in spaced apart relationship to each other and secured at their respectively opposite ends to said braces.

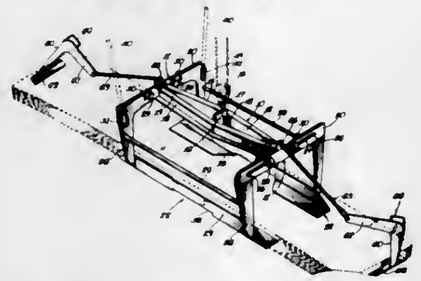
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**2,646,304**
**INSULATED ELECTRICAL TOOL**
**Wellington S. Chadwick, Bucyrus, Ohio**
**Application March 22, 1948, Serial No. 16,217**
**3 Claims. (Cl. 294—19)**



1. An insulator handling tool comprising a pole, a pair of jaws having insulator gripping portions, means for mounting said jaws relative to said pole for pivotal movement, and means for subjecting said jaws to such pivotal movement as to move said insulator gripping portions thereof toward and from each other, said jaw moving means comprising a screwthreaded operating element, bracket means fixed on said pole for supporting said screwthreaded operating element for rotation about its axis, a nut mounted on said screwthreaded operating element for movement in response to axial rotation of said screwthreaded operating elements, said bracket means having a portion which limits movement of said nut links for operatively connecting said jaws to said nut for transmitting movement from said nut to said jaws, and means for subjecting said screwthreaded operating element to axial rotation, the last-mentioned means comprising an operating stick spaced outwardly from said pole and which is normally disposed in substantial parallelism with respect to said pole and is connected to said screwthreaded operating element.

**2,646,305**
**FULCRUM GRAB**
**Christian Andreas Sonderstrup, Maywood, Ill., assignor to Rada Products Company, a corporation of Illinois**
**Application December 8, 1949, Serial No. 131,853**
**8 Claims. (Cl. 294—67)**



1. A material handling device comprising, a frame symmetrical about a longitudinal axis and having a center supporting channel and a tie bar attached to each end thereof normal thereto, said tie bars each having a pair of spaced pivot apertures connected by a slot smaller in width than the diameter of said apertures, a pair of grab hooks each mounted on an opposite side of said frame each comprising, a pair of bell-crank shaped arms, a material lifting member extending between and attached to the lower end of the arms, a pivot pin attached to the upper end of each arm and extending through one of said pivot apertures for pivotally mounting each arm respectively to a tie bar, said pivot pins having a flat side permitting said pin to be moved through said slot between said pivot apertures.

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**2,646,306**
**LIFTING HOOK**
**Ferdinand H. H. Foss, Chicago, Ill., assignor to S. G. Taylor Chain Company, Hammond, Ind., a corporation of Illinois**
**Application December 28, 1950, Serial No. 203,062**
**1 Claim. (Cl. 294—82)**



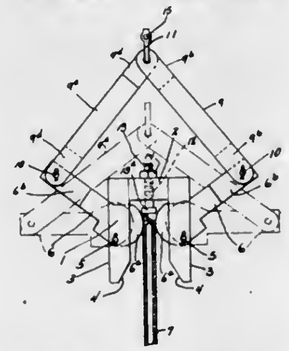
A lifting hook, having an upper apertured end, a generally vertical shank portion, a laterally-extending load-engaging portion, and an upwardly-inclined point, said point and load-engaging portion being substantially solid in cross-section and said shank portion being longitudinally recessed centrally on both sides to form a structure which is substantially H-shaped in cross-section and which tapers generally from the front thereof toward the rear, the channels on both sides



having substantially straight side walls and extending downwardly toward the bottom of the hook and terminating in a pocket pointed downwardly toward the bottom of the hook and in a direction away from the upper surface of the load-engaging portion, said downwardly-directed pocket of each of said channels being spaced from the upper surface of the load-engaging portion by a solid throat which widens progressively as it approaches said point portion of the hook.

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**2,646,307**
**MATERIAL HANDLING DEVICE**
**Harry O. Phalin, Port Allegany, Pa., assignor, by mesne assignments, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 21, 1950, Serial No. 185,959**
**2 Claims. (Cl. 294—114)**

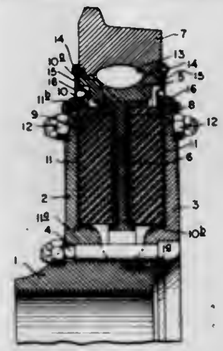


1. In a material handling device, in combination, an open ended head portion comprising a top member and depending side members, a material engaging member pivotally mounted intermediate its ends upon each depending head portion side member, each material engaging member having a cam shaped end portion for engagement with the material and an extension projecting outwardly from the pivotal mounting, an operating member pivotally connected with each extension, a pivotal connection for each operating member above said head portion, and an adjustable stop member mounted upon the head portion top member to gage the points of contact between the material to be handled and the cam faces of the material engaging members.

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**2,646,308**
**RESILIENT WHEEL FOR VEHICLES ROLLING ON RAILS**
**Antonio Boschi, Milan, Italy, assignor to Pirelli Societa per Azioni, Milan, Italy, a corporation of Italy**
**Application February 19, 1948, Serial No. 9,604**
**In Italy April 5, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires April 5, 1963**
**6 Claims. (Cl. 295—11)**

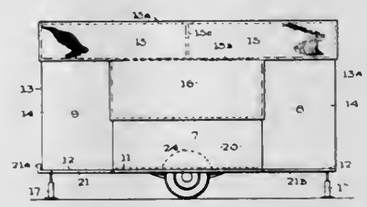
1. A resilient wheel for rail vehicles comprising a hub having a plurality of radially-extending annular flanges, a rim having an inwardly extending annular web member between said flanges, a plurality of rubber cushions interposed between said flanges and said web member and adapted to transmit a load from said hub to said rim by shear-flexon stress, and means for progressively reducing the deformability of said cushions as said load increases; said means comprising a plurality of similarly but oppositely contoured metal surfaces, arranged to progressively contact diagonally opposite inner and



outer circumferential surfaces of said rubber cushions, as said load increases, whereby the axial space between said metal surfaces in which said rubber cushions are free to deform, is correspondingly reduced as said load increases.

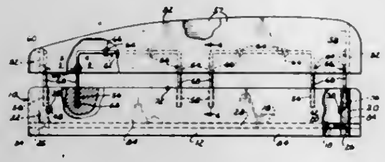
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**2,646,309**
**COLLAPSIBLE TRAILER CARAVAN**
**Edwin Theo Tuson, Wahroonga, New South Wales, Australia**
**Application June 30, 1949, Serial No. 102,321**
**In Australia July 13, 1948**
**1 Claim. (Cl. 296—23)**



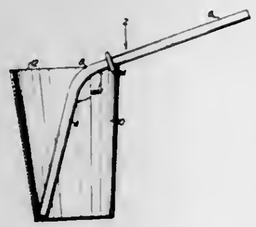
A collapsible caravan comprising a wheeled vehicle having supporting wheels one on each side thereof and including a central section having side walls outside of said wheels, and two rigid end sections each with a floor, and as housing elements rigid side walls and end walls, said housing end sections being hinged at ends of the floor of said central section being of lengths to overlap one another more than half their lengths when folded over one another and being foldable intact one inside and the other outside of the side walls of said central section, the overall height of the vehicle and the parts thereon when folded being slightly more than the height of said central section side walls, the arrangement being such that, when said housing end sections are swung on their hinges to erect position, they constitute complete housing ends over which a cover roof may be disposed, and the over-all width of the housing is greater than the over-all width of the supporting wheels, while the total height of the whole structure is reduced by approximately one half when the elements thereof are folded, and mudguards for said vehicle wheels inside of said central section side walls and spaced therefrom to permit one of said housing end sections to fold down between said mudguards and adjacent side wall.

**2,646,310**
## STAKE BODY
**Benjamin F. Leber, Chicago, Ill.**
**Application June 17, 1949, Serial No. 99,773**
**1 Claim. (Cl. 296—28)**



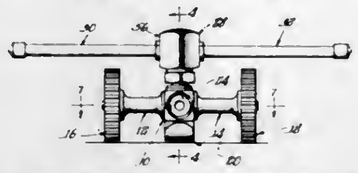
A stake body comprising a box having side and end panels, tie members passing through two opposite panels and embedded in the inner faces of the other two panels, all of said panels having longitudinally spaced pairs of vertically elongated upper sockets between the inner and outer faces thereof, said two opposite panels having vertical inner notches in which the ends of the other panels are seated, all of said panels having together a continuous horizontal groove, a floor board marginally seated in said continuous groove, a slat associated with each panel, planar inverted U-shaped rods of circular cross-section and having spaced flat portions, fastening means passing through said flat portions and securing said rods to the inner sides of said slats, said fastening means being disposed entirely within the confines of said rods and slats, said rods serving as stakes projecting below said slats and removably slidably engaged snugly in said pairs of sockets, said flat portions being in flatwise engagement with said inner faces of said slats, said stakes being of greater length than said sockets, whereby, when said stakes are fully projected into said sockets, said slats are spaced above said panels.

**2,646,311**
## DRINKING TUBE
**Troy L. Jones, Columbia, S. C.**
**Application April 10, 1950, Serial No. 154,962**
**3 Claims. (Cl. 299—17)**



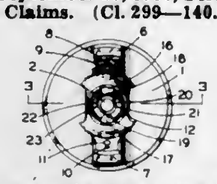
1. A drinking tube for the use of invalids and children, comprising a tube bent at an obtuse angle, said obtuse angle being adapted to be positioned within the glass with which it is used, and an abutment integral therewith, said abutment, considered from the lower end of the tube, being positioned beyond the obtuse bend in the tube and extending outwardly from the tube a sufficient distance to engage the inside of the upper rim of a drinking glass, whereby the tube is prevented from sliding out of the glass even if the glass is tipped at a sharp angle.

**2,646,312**
## SPRINKLER
**Gordon K. Ware and George J. Filetz, Chicago, Ill., assignors to Chicago Roller Skate Company, Chicago, Ill., a corporation of Arizona**
**Application October 12, 1949, Serial No. 120,868**
**5 Claims. (Cl. 299—47)**



1. A lawn sprinkler of the type supplied with water by a hose and usable on a fixed surface, said sprinkler comprising a body portion, valve means carried by said body portion and operable by relative movement of said hose and said supporting surface, an upstanding shaft on said body portion, a substantially radial annular flange on said shaft, a rotatable sprinkler head fitting over said shaft and extending downwardly beyond said flange, means carried by said shaft below said flange and secured to said rotatable sprinkler head for rotation therewith, anti-friction bearing means disposed between said last named means and said flange and holding said head on said shaft, and anti-friction bearing means disposed directly between said flange and said rotatable sprinkler head and supporting the weight of said head.

**2,646,313**
## SPRAY NOZZLE
**Donald J. Peeps, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio**
**Application September 13, 1950, Serial No. 184,538**
**4 Claims. (Cl. 299—140.1)**



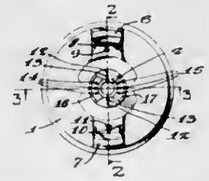
1. A spray nozzle having a central port for the discharge of an expanding conical stream of material and air, pairs of atomizing air ports on opposite sides of but adjacent to the central port symmetrically arranged for directing against the stream of material and air near its source from each side a pair of jets along parallel paths which are in straddling relation to the axis of the central orifice, and two sets of larger ports, farther from the central port and on opposite sides 90° about the axis of the central port from the position of the atomizing air ports, for discharging opposed sets of converging air jets to strike the stream simultaneously from opposite sides to form it into its final fan shape.

**2,646,314**
## SPRAY NOZZLE
**Donald J. Peeps, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio**
**Application October 19, 1950, Serial No. 190,952**
**7 Claims. (Cl. 299—140.1)**

1. A spray nozzle of the type having a center orifice for the discharge of an expanding conical

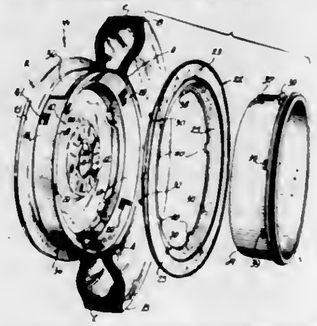


stream of material and air, primary port means for impinging atomizing air jets against opposite sides of the stream and secondary port means in a plane diametric of the axis of the center orifice and ninety degrees about the axis from the primary port means for impinging air jets against opposite sides of the stream, subsequent to the impingement of the atomizing air jets, to form the stream into its final fan shape, said spray nozzle characterized by having said primary port means include a separate distinct set of closely adjacent circumferentially spaced



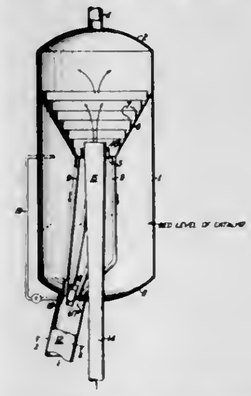
ports on each of opposite sides of the center orifice with said ports formed and positioned to discharge air jets against opposite sides of the stream along paths angled relative to each other with each jet impinging the stream at an angle to the axis thereof of at least thirty degrees and at a point circumferentially spaced from the point of impingement of an adjacent jet, whereby the stream is indented at a plurality of points on each side and is flattened and spread laterally in the diametric plane in which the secondary port means are positioned and on opposite sides of which the sets of primary port means are positioned.

**2,646,315**
## AUTOMOTIVE TIRE WHEEL
**Alphonse Richard, St. Thecle, Quebec, Canada, assignor of thirty-five per cent to Richard J. Veillet and fifteen per cent to Robert Cloutier, both of St. Thecle, Quebec, Canada**
**Application August 3, 1951, Serial No. 240,122**
**4 Claims. (Cl. 301—6)**



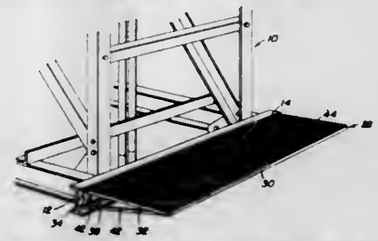
1. In combination with a brake drum, an automotive tire wheel adapted to be removably secured to said brake drum, comprising a circular web, a rim secured to said web having a cylindrical outer peripheral portion substantially continuous transversely of the same, a flange projecting outwardly from said rim, a removable ring including an inner circular portion securable to said rim and an outer portion defining the other flange of said rim, and cooperating locking means on said brake drum and on said ring to prevent rotation of said ring relatively to said drum and to said wheel when the latter is secured to said drum and said ring secured to said rim, said cooperating locking means including a key secured longitudinally on said brake drum and a registering U-shaped lug projecting inwardly from the inner periphery of said ring.

**2,646,316**
## SOLIDS LIFT DISENGAGER
**Reyner Koligaard, Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware**
**Application July 19, 1951, Serial No. 237,573**
**8 Claims. (Cl. 302—59)**



1. Apparatus for lifting granular particles comprising a substantially vertically disposed substantially cylindrical housing, a lift pipe disposed concentrically of said substantially cylindrical housing and extending into the latter, said lift pipe being adapted to receive an upwardly moving gas stream and entrained granular particles, the upper end of said lift pipe being of un-reduced diameter, an inverted frusto-conical partition plate disposed within said substantially cylindrical housing, the lower end of said inverted frusto-conical partition plate being disposed below the upper end of said lift pipe, the upper surface of said inverted frusto-conical partition plate being provided with a series of dams to thereby provide a temporary repository for downwardly falling granular particles, and a series of down pipes communicating with the lower end of said inverted frusto-conical partition plate, the upper portion of said substantially cylindrical housing having a gas outlet positioned above said partition plate.

**2,646,317**
## DRILL RIG CATWALK
**Thomas I. Holley, Webb City, Mo.**
**Application December 24, 1948, Serial No. 67,112**
**5 Claims. (Cl. 304—14)**

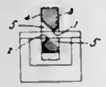


1. A drill rig catwalk comprising a horizontally disposed supporting beam, a plurality of longitu-

dinally spaced vertically disposed anchor plates fixed to and projecting laterally from said beam, a foot platform, a longitudinal bar fixed to said platform, said anchor plates having recesses receiving said bar, and a vertically inclined brace carried by said platform and including an elongated member paralleling the bar and abutting the beam and preventing downward swinging movement of said platform relative to said beam, said anchor plates overlying said member and functioning as stops preventing accidental raising of the member.

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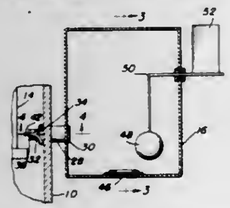
**2,646,318**
**SHORT FULCRUM FOR WEIGHING SCALE LEVERS**
**Homer F. Rice, Birmingham, Ala.**
**Application May 16, 1949, Serial No. 93,580**
**2 Claims. (Cl. 308—2)**



2. A weighing scale lever fulcrum comprising, a piece of flat metal, said piece having an elongated slot formed therein, the long side edges of the slot terminating as knife-edges, said knife-edges being spaced apart and parallel with each other.

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**2,646,319**
**JOURNAL BOX**
**Ewell F. Wideman, Wetumpka, Ala.**
**Application October 25, 1951, Serial No. 253,089**
**3 Claims. (Cl. 308—79)**

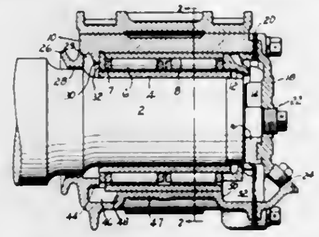


1. The combination of a journal box having a side wall provided with an aperture, a lubricant reservoir disposed adjacent said box and having a side wall provideo with an aperture coaxial with the first mentioned aperture, a hollow and externally screw-threaded connector member extending through said apertures and having an enlarged head in abutment with the inner surface of the reservoir side wall, a spacer sleeve positioned on said member between said box and the reservoir, a nut on said member in abutment with the inner surface of the box side wall, said member affording a duct connecting the interior of said box with the reservoir, and a fusible closure plug provided at the end of said duct in said box.

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**2,646,320**
**RAILROAD JOURNAL BOX**
**Ralph Altson, Elmhurst, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application December 17, 1949, Serial No. 133,601**
**12 Claims. (Cl. 308—180)**

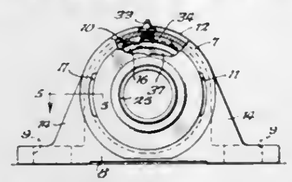
1. In a journal box having a shaft journalled in a bearing, the box having an oil reservoir provided with a transversely extending passage connected at its ends respectively with passages extending longitudinally along the sides of the box, a rear end box wall having an opening closely surrounding the shaft, the lower portion of the end wall having a projection extending beyond



the end wall into the box over the transversely extending passage and sloping downwardly in opposite directions from the middle and connecting with the sides of the box, and end portions of said projection extending forwardly of the box over the passages along the sides of the box.

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**2,646,321**
**BEARING ASSEMBLY**
**Carl A. Geist, Buffalo, N. Y.**
**Application August 23, 1949, Serial No. 111,810**
**6 Claims. (Cl. 308—187)**

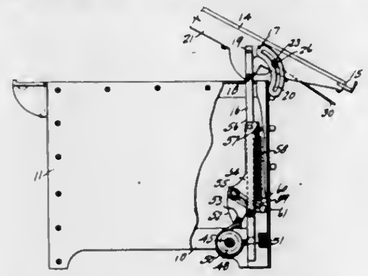


1. In a bearing assembly comprising a base having an annular rigid one-piece wall, and an anti-friction bearing including inner and outer races with rolling members between said races, that improvement which includes a one-piece sleeve formed to receive the part to be supported by said bearing and on which said inner race is removably secured by a press fit, and a pair of retainer rings each having a press fit with the outer surface of said outer race and extending into dust-tight relation to said sleeve, the portions of said sleeve extending between said retainer rings and said inner race being imperforate, said annular wall having an inner partly spherical surface and said rings having their outer surfaces of partly spherical form to fit within said inner spherical surface of said annular wall.

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**2,646,322**
**VERTICALLY ADJUSTABLE DRAFTING BOARD TABLE**
**Ed Laxo, Oakland, Calif.**
**Application January 10, 1949, Serial No. 70,089**
**4 Claims. (Cl. 311—36)**

1. Equalizing means for vertically adjustable drawing board, comprising a frame; spaced standards vertically slidable in said frame for adjustable support of said drawing board; an upper and a lower sprocket for each standard and a shaft for the upper sprockets and a second shaft for the lower sprockets and supported by said frame; a bracket fixed on each standard; a chain for each standard and each having its respective ends fixed to the bracket and each including adjusting means for one end of the



chain, with the chains passing about the respective upper and lower sprockets.

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**2,646,323**
**EXTENSION TABLE SLIDE MECHANISM**
**Philip Snyder, Baltimore, Md.**
**Application April 10, 1951, Serial No. 220,270**
**2 Claims. (Cl. 311—73)**

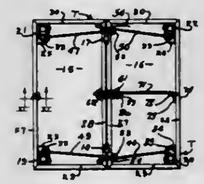


1. In an extension table slide mechanism, a support engaging center rail disposed horizontally in a vertical plane, said rail being formed with a center opening and with an opening near each end, top engaging side rails disposed horizontally against opposite side faces of the center rail and having inner and outer end portions formed with longitudinally extending slots, the slot in the inner end portion of one side rail having rack teeth along its upper edge and the slot in the outer end portion of the other side rail having rack teeth along its lower edge, pins mounted through the openings near ends of said center rail and projecting laterally from opposite sides of the center rail and passing through the slots in outer end portions of the side rails and limiting sliding movements of the side rails longitudinally of the center rail, a shaft mounted through the center opening of the center rail and having portions projecting laterally from opposite sides of the center rail and passing through the slots in inner end portions of the side rails and provided with heads engaging outer side faces of the side rails, and gears rigidly carried by said shaft withing the said slots in the inner end portions of the side rails and meshing with the rack teeth whereby when either side rail is moved longitudinally the other side rail will move longitudinally in an opposite direction.

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**2,646,324**
**FOLDING TABLE WITH SECTIONAL TOP**
**John W. Bereman, Bentonville, Ark.**
**Application February 9, 1948, Serial No. 7,156**
**3 Claims. (Cl. 311—90)**

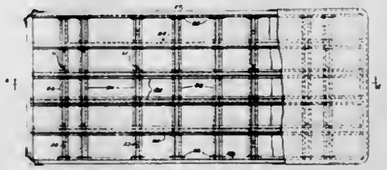
1. In a folding table device of the kind described; said table device having two table top sections each having depending rails around each side and end thereof and being rigidly attached thereto, one similar rail of each section being hingedly attached each to the other to form a smooth table top of the two sections when in an opened position, table leg supporting elements, one for and rigidly fixed in each corner of the table sections opposite the hinge connections of the table top sections, table legs, one for and pivotally mounted in each of said leg supporting elements and being foldably swingable toward the other leg of its respective table top section, each of said table leg supporting elements having a plate and a guide slot therein, said plate lying in a plane parallel to the table top, actuator rods, one for each plate, one end of each actuator rod being travelably received in the guide slot of its respective leg support element plate, the other end of each actuator rod being hinged-



ly attached to the hinged rail of its adjoining table top section, table leg actuator links, one for each table leg, said links being pivotally connected, one end to their respective table leg at a point spaced away from the pivotal mounting point of the leg and the other end of each actuator link being workably connected to the travelable end of said actuating rods in said guide slots, said guide slots being tortuous in shape to push and pull said leg actuator links to unfold to an open position and to fold to a closed position each of said table legs simultaneously as the travelable actuator ends are moved in said guide slots as the folding and unfolding movements of the table top sections impart longitudinal movement to said actuator rods.

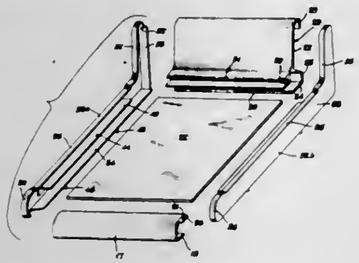
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**2,646,325**
**DESK TOP CONSTRUCTION**
**Charles M. Abrahamson, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois**
**Original application September 18, 1946, Serial No. 697,760, now Patent No. 2,560,400, dated July 10, 1951. Divided and this application January 29, 1948, Serial No. 5,102**
**3 Claims. (Cl. 311—106)**



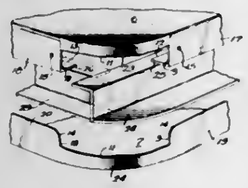
1. A desk top comprising a sub-top having downwardly extending marginal flanges, a filler top having upwardly extending marginal flanges overlapping the marginal flanges of the sub-top, fastening means securing said overlapping flanges together, reinforcing members between said tops extending between opposed portions of said marginal flanges, and means for securing at least some of said reinforcing members to the under side of said sub-top.

**2,646,326**
**KNOCKDOWN TABLE TOP AND BACK SPLASH CONSTRUCTION**
**Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York**
**Application February 12, 1951, Serial No. 210,547**
**8 Claims. (Cl. 311—106)**



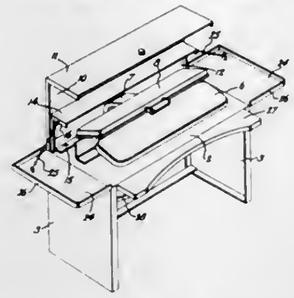
1. Knock-down table top construction including a sheet of plastic material forming the top work surface, a front nosing trim member having groove means slidably receiving and supporting the front marginal edge of said plastic sheet, a back splash trim member having groove means slidably receiving and supporting that marginal edge of said plastic sheet opposite the front edge thereof, cap members having front and back portions conforming to and slidably fitting over said front and back trim members, and the intermediate portions of said cap members having groove means receiving and supporting the side marginal edges of said plastic sheet, said sheet being self-supporting within its marginal edges.

**2,646,327**
**DESK OR TABLE TOP CONSTRUCTION**
**Fritz A. Saaf, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois**
**Application December 6, 1949, Serial No. 131,429**
**4 Claims. (Cl. 311—107)**



1. A desk or table top comprising a pair of sheet metal plates each of which has the four corners cut away along angularly disposed lines, extending transversely inward from the respective edges which normally meet to form the corners of said plates, and along an arc between said angularly disposed cuts, said plates having the perimetrical portions thereof between said corners bent at right angles to the plane of said plates to form transversely disposed flanges and having the perimetrical portion of said plates intermediate said cuts also formed to provide transversely disposed arcuate flanges connecting and continuous with said first-mentioned flanges, said flanged plates being superimposed with the flanges on one plate nesting within the flanges on the other plate.

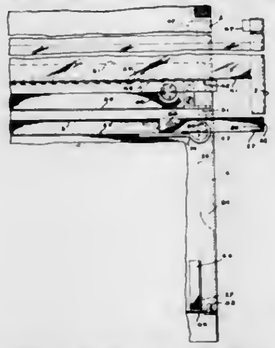
**2,646,328**
**COVER CONSTRUCTION FOR WORKTABLES**
**Carl S. Dayton, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**
**Application December 21, 1949, Serial No. 134,237**
**2 Claims. (Cl. 312—289)**



1. In combination with a table, a foldable cover construction comprising a first cover member fixed to said table at the rear thereof and extending upwardly and forwardly, the upwardly extending portion providing a rear wall and the forwardly extending portion lying above said table surface to provide shelf space when said table is uncovered, vertically extending guide rails fixed to said upwardly extending portion, a second cover member having a wall covering the top area of said table and a wall extending angularly into contact with the table surface to provide the front closure wall of said cover, and roller members secured to said second cover member at the rear edge thereof and riding within said rails, said rollers providing pivots about which said second cover member may be swung through an angle bringing its first-named wall into alignment with said guide rails and then dropped downwardly to support said cover member in raised position with a wall portion extending upwardly from the shelf-forming portion of the first cover member to provide a guard wall at the rear thereof said construction making it necessary that said second cover member be sequentially swung and dropped rather than being concurrently swung and dropped.

**2,646,329**
**VALVE SHOP CABINET**
**Glenn C. Wilhide, Towson, Md., assignor to The Black and Decker Manufacturing Company, a corporation of Maryland**
**Application November 12, 1947, Serial No. 785,466**
**6 Claims. (Cl. 312—310)**

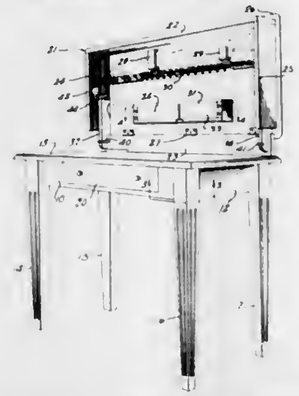
5. In a cabinet, a drawer slidable into said cabinet having a front panel projecting below the bottom of the drawer, a swinging sliding panel door below said drawer constituting with said front panel, a substantially continuous part of an outer wall of the cabinet, ways for said door on which the door may slide into the cabinet, interengaging hooks at the forward ends of said ways and on the adjacent edge of the door forming a hinge structure for the door to retain the door in the cabinet at all times, said door being bodily slidable into the cabinet on the ways upon swinging open on said hooks, vertically extending interlocking means on said cabinet and on the door, adjacent the edge opposite the hooks, the door being vertically movable on said hooks with the drawer partially open to lock said interlocking means, the front panel of the drawer, when the drawer is closed being in close proximity to the upper edge of the door to prevent vertical movement of the door, said inter-



locking means preventing hinging movement of said door and said drawer front panel in closed position preventing disengagement of said interlocking means.

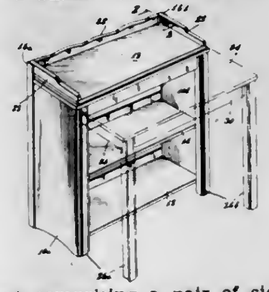


**2,646,330**
**COMBINATION WORKBENCH AND DRAWING TABLE**
**James A. Swainbank, Flushing, N. Y.**
**Application April 20, 1951, Serial No. 222,040**
**3 Claims. (Cl. 312—316)**



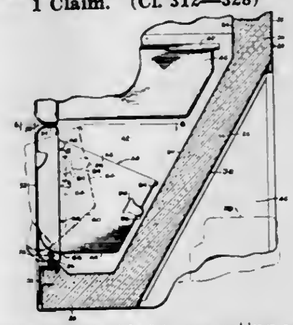
3. An article of combination furniture comprising a table having a flat top, a flat box structure including spaced apart and substantially parallel side members one of which is secured along one edge to said table top along one edge of the latter and upstands substantially perpendicularly from the table top, end members rigidly secured each at one end to the other side member at respectively opposite ends of the latter and extending perpendicularly from said other toward said one side member, and a box top rigidly secured along one side edge and its end edges to said other side and said end members and hinged along its other side edge to said one side member along the edge of the latter remote from said table top, said side and end members all being disposed at the same side of, and said other side and end members extending perpendicularly from, said box top, hooks secured to said one side member one near each end thereof, stays pivotally secured each at one end one to each of said end members intermediate the length of the latter, said stays having their distal ends receivable one in each of said hooks and having notches in their distal ends receiving said one side member to support said box structure in upstanding position substantially perpendicular to said table top, said stays being also adapted to rest at their distal ends on said table top at locations spaced from said one side member, eccentric cams pivotally mounted one on each of said end members and respectively engaging said stays to adjustably support said box structure at selected angles of inclination relative to said table top, and tool supports secured to said box top at the side thereof at which said side and end members are disposed.

**2,646,331**
**COMBINED CABINET AND DESK**
**Patrick V. Gallo, Brooklyn, N. Y.**
**Application August 16, 1950, Serial No. 179,805**
**1 Claim. (Cl. 312—317)**



A cabinet comprising a pair of side walls, a plurality of cross members extending between said side walls and adapted to maintain said side walls in fixed space relation, a first top member and a second top member, means hinging said first top member to said side walls, a pair of legs secured to said second top member, a pair of oppositely disposed inverted T channels formed on the inside of said respective side walls, a pair of projections secured to opposite sides of said second top member and slideably mounted within said channels respectively, said first and second top members forming a continuous surface in extended position, and said first member stacked above said second member in closed position.

**2,646,332**
**TILTABLE BIN**
**Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland**
**Application April 9, 1948, Serial No. 19,910**
**1 Claim. (Cl. 312—328)**

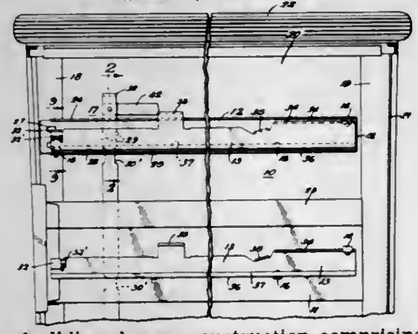


A sheet metal tiltable bin mounting comprising, a base portion, a seat portion for the bin overly-

ing and spaced above said base portion, a rounded fulcrum edge for the bin formed by bending the seat back over said base joining said base and seat portions together at the front of the mounting, an upstanding pintle formed out of said seat portion in the form of an inverted V having one leg joining said seat portion adjacent said fulcrum and the other leg extending downwardly and rearwardly of said seat portion and a downwardly directed stop member formed out of said other leg extending rearwardly and downwardly to limit tilting of the bin.

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**2,646,333**
**SLIDING DRAWER CONSTRUCTION**
**Charles M. Abrahamson and Karl P. Grube, Aurora, Ill., assignors to All-Steel Equipment Inc., a corporation of Illinois**
**Application December 6, 1949, Serial No. 131,400**
**9 Claims. (Cl. 312—346)**

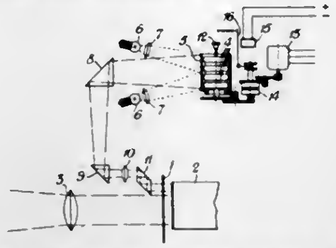


1. A sliding drawer construction comprising, a housing having a drawer compartment, a drawer shiftable in said compartment, horizontally-disposed guide channels fixed on the sides of said housing, a slide longitudinally disposed along each side of said drawer and having a horizontal flange extending into the respective guide channels, buttons of lubric material secured at the inner ends of said slides to bear upon the underfaces of the upper flanges of each of said guide channels, and other buttons of lubric material secured to the upper faces of the lower flanges of said guide channels adjacent the forward ends thereof, said buttons providing the sliding contact between said guide channels and slides for the shifting of said drawer, said buttons each having a vertical flange portion, a horizontal body portion and a vertical stud portion, said first-mentioned buttons each having their stud portion passing through an opening in said horizontal flange of the slide, with the body portion resting on said horizontal flange and with the vertical flange portion overhanging the edge thereof, whereby said overhanging vertical flange portion of the button prevents the slide from making contact with the adjacent portion of the guide channel and also prevents rotation of the button about the stud portion within said opening.

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**2,646,334**
**TIME RECORDING DEVICE**
**André Marchand, Bern, Switzerland, assignor to The Race Finish Recording Company Limited, London, England**
**Application June 5, 1950, Serial No. 166,231**
**In Switzerland June 10, 1949**
**2 Claims. (Cl. 346—107)**

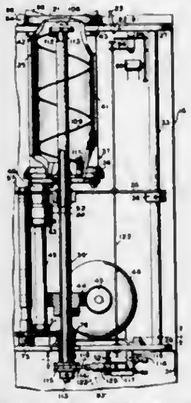
1. A time-recording device comprising a camera having means to move a film continuously, an optical projection system including a slit aperture component projecting uninterruptedly on to the film as it is moving, a rotatable multi-element disc counter having time-notation markings, a constantly acting source of illumination, a hollow cylindrical mask shrouding the counter elements from the source of illumination, the mask having a series of exposure openings regularly spaced about its periphery, a single electric motor to rotate continuously the first element of the counter and the mask to cause the time nota-



tion markings on the counter elements to be intermittently illuminated, fixed ratio drive means to connect the said first element, the counter, and the mask positively for rotation in unison whereby the time notation markings are intermittently illuminated at regular intervals through the successive exposure openings, and an optical system to project the intermittently illuminated markings of the counter elements on to the film.

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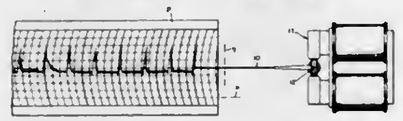
**2,646,335**
**FACSIMILE APPARATUS**
**Raleigh J. Wise, Arlington, and Robert D. Parrott, West New York, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York**
**Original application August 14, 1942, Serial No. 454,768, now Patent No. 2,469,423, dated May 10, 1949. Divided and this application March 11, 1948, Serial No. 14,293**
**7 Claims. (Cl. 346—138)**



1. In facsimile apparatus, a rotatable hollow transparent cylinder to support interiorly thereof a sheet for scanning purposes, a helically formed spring disposed within said cylinder substantially coaxially therewith, said spring being biased to expand normal to the axis of said cylinder whereby to press a sheet against the inside of said cylinder wall, and means controlled by the rotation of said cylinder to contract said spring whereby to release said sheet.



**2,646,336**
**DIRECT WRITING ELECTROCARDIOGRAPH**
**Murray W. Edinburg, Worcester, Mass.**
**Application April 21, 1948, Serial No. 22,321**
**2 Claims. (Cl. 346—140)**

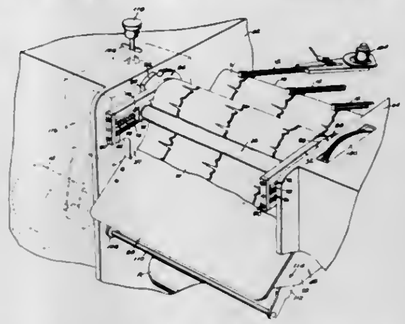


1. In an electrocardiograph of the type having a graph paper, means for moving said graph paper in a linear $x$ axis direction, an electromagnetically actuated pen, means for moving said pen in a generally $y$ axis direction at right angles to said $x$ axis in response to variations in heart currents, said pen having a passage therethrough for the feeding of ink from an ink supply, said passage terminating in a narrow elongated writing opening in writing relation to the graph paper and with the axis of the narrow elongated opening aligned substantially parallel to the $y$ axis of the graph paper when the pen is in a neutral position, whereby the width of the line made by said pen will vary with the speed of movement of said pen in the $y$ axis relatively to the speed of movement of the paper.

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**2,646,337**
**RECORDER WITH RETRACTABLE WEB-SUPPORTING MEANS**
**George Gorham, New York, N. Y., assignor to Technicon Cardiograph Corporation, New York, N. Y., a corporation**
**Application June 21, 1949, Serial No. 100,449**
**15 Claims. (Cl. 346—145)**

1. In a recorder provided with means for marking a record on a web of sheet material, means including a driven feed roller and a companion pressure roller for moving said web in the direction of its length in relation to said marking means, a frame mounted for turning movement about the axis of said feed roller, means carried by said frame and having an edge for supporting the web for the action thereon of said marking means when said frame is in a predetermined position thereof, said frame being movable about said axis to a retracted position to facilitate the insertion of the leading end of the web between said feed roller and said pressure roller, a stationary web-guide mounted independently of said



frame, and a companion web-guide carried by and movable with said frame, said web-guides being disposed so as to be positioned below and at opposite sides of said edge of said web supporting means, when said frame is in said predetermined position, for directing the web upwardly to and downwardly from said edge during the travel of said web over said edge, said independently mounted web-guide being retained against rotation and having a marginal edge portion in frictional engagement with said web whereby the latter is delivered from said recorder in substantially flat condition.

**2,646,338**

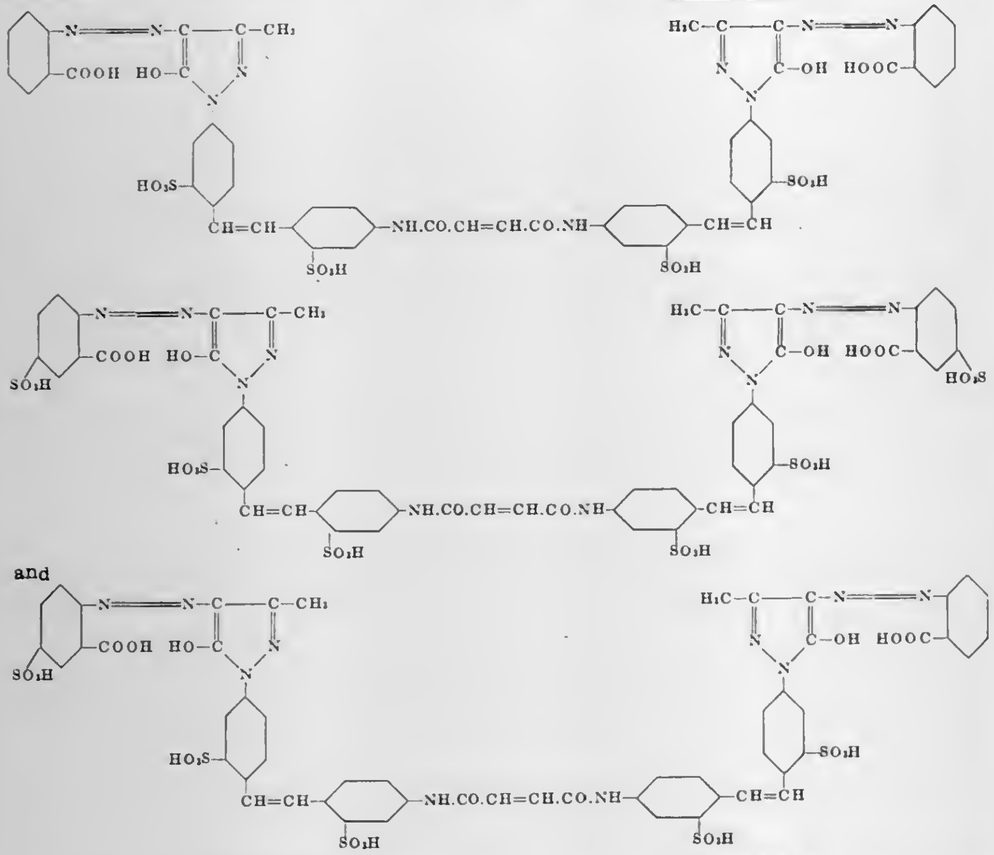
## DISAZO DYESTUFFS

**Markus Kappeler, Willy Steinemann, and Walter Wehrli, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland**

**No Drawing. Application October 3, 1951, Serial No. 249,634. In Switzerland October 4, 1950**

**6 Claims. (Cl. 8—26)**

6. A substantive yellow disazo dyestuff which is a mixture comprising the dyestuffs of the formulae



and



**2,646,339**

## DYEING OF CELLULOSE DERIVATIVE TEXTILE MATERIALS

**George C. Ward and William T. Haggerty, Jr., Cumberland, Md., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware**

**No Drawing. Application December 27, 1950, Serial No. 203,036**

**3 Claims. (Cl. 8—36)**

1. Process for dyeing organic acid ester of cellulose textile materials with a vat dye, which comprises treating said organic acid ester of cellulose textile materials with an aqueous dyebath containing a leuco vat dye, from about 0.1 to 1 part by weight of an alkali metal carbonate, from about 0.5 to 10 parts by weight of an alkylolamine and from about 3 to 25 parts by weight of a water-miscible organic liquid capable of swelling the organic acid ester of cellulose textile materials for each 100 parts by weight of water at a temperature between about 40 and 60° C. for a period of between about 15 and 30 minutes and then at a temperature between about 70 and 90° C. for a period of between about 30 and 90 minutes, and then oxidizing the leuco vat dye.

**2,646,340**

## PROCESS OF TREATING NATURAL CELLULOSE TEXTILES TO PARTIALLY ESTERIFY THEM AND THEN TREATING WITH A RESIN CONDENSATION PRODUCT AND PRODUCTS RESULTING THEREFROM

**Ralph F. Nickerson, Marblehead, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application October 1, 1948, Serial No. 52,399**

**8 Claims. (Cl. 8—115.6)**

1. The method of preparing improved wrinkle or crease resistant cellulosic textile materials which comprises treating a natural cellulose textile material with an 80 to 100% formic acid solution until from 1 to 10% of the hydroxyl groups





of the cellulose are esterified; removing substantially all of the unreacted formic acid from said material; impregnating said material with an aqueous solution comprising a latent curing catalyst and from about 6 to 20% by weight of a substantially unpolymerized ureaformaldehyde condensation product; extracting said material to deposit from about 6 to 16% by weight, based on the dry material, of said condensation product; and then insolubilizing said condensation product by heating said material at a temperature between about 275 and 350° F.

5. A wrinkle and crease resistant cellulosic textile material consisting of partially esterified natural cellulose textile fibers selected from the group consisting of partial formyl, partial acetyl and partial propionyl esters of natural cellulose, in which from 1 to 10% of the hydroxyl groups of the natural cellulose have been esterified, impregnated with from about 6 to 16% by weight, based on the dry material, of an insolubilized condensation product selected from the group consisting of urea-formaldehyde, melamine-formaldehyde, methylated urea-formaldehyde and methylated melamine-formaldehyde condensation products and mixtures thereof, said fibers being characterized by a tensile strength which is substantially the same as the untreated natural cellulose textile fibers from which they were prepared.

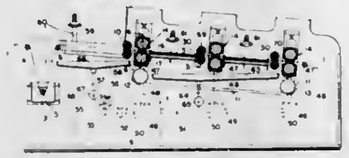
**2,646,341**

## METHOD OF OBTAINING LUSTER IN COTTON FABRIC BY MERCERIZING AND CALENDERING THE FABRIC

**Charles Fetscher, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York**

**Application November 23, 1948, Serial No. 61,546**

**4 Claims. (Cl. 8—125)**



1. The method of treating a fabric formed largely of cotton fibers to impart thereto an increased lustre that is permanent to multiple laundry washes, which comprises wetting the fabric with an aqueous caustic soda solution of mercerizing strength until the cotton fibers thereof have approximately maximum swelling and plasticity, then immediately, while the cotton fibers are still swelled and plastic, successively rinsing the fabric with water to progressively remove the caustic soda from the fibers, and after the rinsing has begun and shortly before the caustic has been fully removed, permanently flattening the swelled fibers.

**2,646,342**

## LOOSENING RAYON YARN PACKAGES BY SIMULTANEOUS SOAKING AND DEFORMATION

**Charles D. Vandenburgh, Charlestown, Md., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**

**Application June 29, 1948, Serial No. 35,944**

**1 Claim. (Cl. 8—155.2)**

The method of loosening an annular wound package of rayon which has no internal supporting core which comprises continuously rolling the package with its axis extending generally horizontally through an aqueous liquid bath having a level between the opposed upper and lower portions of the inner wall of the package while progressively reducing the vertical diameter of the



package by continuously pressing the package during the rolling across its entire width at diametrically opposite upper and lower peripheral areas between two juxtaposed, converging, smooth, and continuous surfaces.

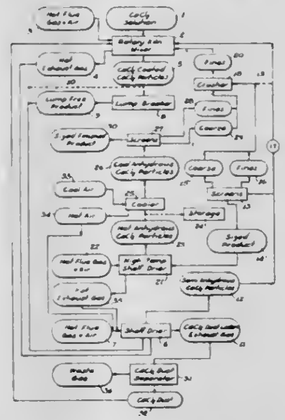
**2,646,343**

## METHOD OF PRODUCING CALCIUM CHLORIDE PELLETS

**Wallis R. Bennett, Midland, and Louis N. Carmouche, Ludington, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**Application November 24, 1950, Serial No. 197,222**

**3 Claims. (Cl. 23—90)**



1. In a method of producing a substantially anhydrous calcium chloride product in continuous manner in the form of dense hard pellets from an aqueous solution of calcium chloride, said solution containing not less than 50 per cent of calcium chloride, the steps which consist in maintaining at a temperature between 150° and 190° C. in a mixing zone a mass of semi-anhydrous particles of the said chloride derived from later steps in the method; spraying the solution at a temperature within 25 centigrade degrees of its atmospheric boiling point onto the said mass of semi-anhydrous particles while subjecting them to a tumbling rolling motion in the presence of a drying gas having a temperature between 200° and 500° C. and being capable of abstracting moisture from the said mass, said mass having a weight between about 0.07 and 0.4 of the weight of the daily input of the calcium chloride in the calcium chloride solution; introducing into the mixing zone semi-anhydrous calcium chloride particles derived from later steps in the method at a rate between about 8 and 30 times that of the calcium chloride in the solution; subjecting the resulting mixture at a temperature

between 150° and 190° C. to the drying action of a heated drying gas capable of abstracting moisture therefrom so as to produce a semi-anhydrous product containing from 3 to 13 per cent of water; subjecting a portion of the semi-anhydrous product to the drying action of a drying gas having a temperature of 250° to 500° C. so as to render the product anhydrous, the portion so-dried being substantially the amount of the calcium chloride content of the incoming calcium chloride solution; and returning the remainder of the semi-anhydrous product to the mixing zone.

2,646,344

## MANUFACTURE OF BORON PHOSPHATE

**Jonas Kamlet, Easton, Conn., assignor to American Potash & Chemical Corporation, Trona, Calif., a corporation of Delaware**

**No Drawing. Application September 27, 1952, Serial No. 311,943**
**1 Claim. (Cl. 23—203)**

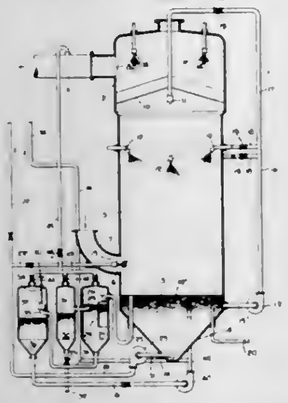
A process for the manufacture of boron phosphate which comprises reacting equimolecular proportions of boric anhydride and phosphorus pentoxide at a temperature between 577° C. and 1000° C.

2,646,345

## AMMONIA SATURATOR AND TAR REMOVAL APPARATUS

**Carl Otto, Manhasset, N. Y.**

**Application February 2, 1950, Serial No. 141,963**
**3 Claims. (Cl. 23—260)**



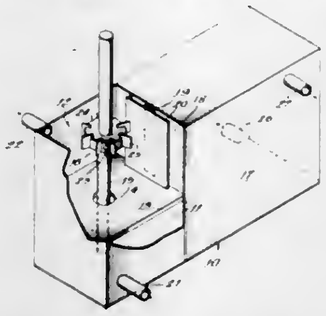
1. In spray saturator and tar eliminating apparatus for the production of ammonium sulphate from distillation gas having a small ammonia content and comprising a vertically disposed tank structure enclosing a chamber including an upper substantially unobstructed gas scrubbing space and a liquor desupersaturating and crystallizing bath space below said scrubbing space and arranged to receive liquor, tar and crystals from the latter, an overflow conduit connected to said structure and having its inlet end open to said chamber at a level intermediate the upper and lower ends of said chamber and operative to discharge bath liquor and tar at said level, said structure having a gas inlet and a gas outlet respectively opening to lower and upper portions of said scrubbing space, spray nozzles mounted in said structure to discharge into said scrubbing space, pumping and conduit means connected to said structure to withdraw liquor and crystals from said bath space, and to pass liquor and crystals through said spray nozzles into said scrubbing space through said spray nozzles and having an outlet for passing liquor and crystals to crystal separating apparatus, and means for adding make-up acid to the liquor passed into said scrubbing space, the improvement comprising conduit means for connecting said gas inlet to a source of distillation gas under pressure to maintain a gas pressure in said scrubbing space substantially above the pressure of the atmosphere, a first closed tar tank connected to said overflow conduit to receive liquor and tar overflowing from said bath space, said overflow conduit having its outlet end opening into said tar tank at a second level below the first mentioned level and below the top of said tar tank, the latter having an overflow outlet open to said tar tank at a third level below said second level, a second closed tar tank into which said second overflow conduit discharges at a fourth level below said second level and below the top of said second tar tank, a gas pressure equalizing connection between said gas scrubbing space and the upper end portion of each of said tar tanks, said second tar tank having a tar outlet opening to the tank at a level below said second level, and means for regulating flow through the last mentioned outlet.

2,646,346

## MULTISTAGE MIXER-SETTLER APPARATUS

**Burton V. Coplan, Troy, and Edwin L. Zebroski, Albany, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission**

**Application February 27, 1950, Serial No. 146,422**
**3 Claims. (Cl. 23—270.5)**



1. A mixer-settler unit for contacting a light and a heavy liquid phase comprising a plurality of horizontally arranged stages, each stage comprising an inlet section for the heavy phase, an inlet for said section, a mixing section above the inlet section, inlet means in the mixing section for admitting the light phase, a horizontal plate separating said inlet section and said mixing section, combined stirring and pumping means in said mixing section comprising a shaft at least the lower portion thereof being hollow, a disc fixed perpendicularly to the axis of the shaft, a plurality of vertically arranged turbine blades secured to the periphery of the disc, means defining radial passages in said disc and communicating with the hollow lower portion of said shaft, said portion of said shaft extending through said plate and into said inlet section whereby the liquid level in the inlet section is maintainable at a predetermined level, a settling section communicating with said mixing section, and outlets in said settling section adjacent the top and bottom thereof for removal of the light and heavy phases respectively.

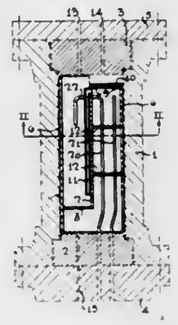


2,646,347

## TWO-PASS HIGH-PRESSURE REACTOR

**Robert L. Jacks and Gipson L. Carter, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware**

**Application May 21, 1952, Serial No. 289,228**
**5 Claims. (Cl. 23—289)**



1. A two-pass, uni-directional flow, high pressure reactor comprising in combination: a tubular pressure resistant shell having top and bottom closure members, a thin-walled sleeve member fitting within said shell in close fitting relation, a partition member extending parallel to the principal axis of the sleeve and intersecting the walls thereof in fluid-tight relation, terminating at a spaced distance from both the top and bottom of the sleeve, a first sealing member extending from one side of the partition to the sleeve at the bottom thereof, and a second sealing member extending from the opposite side of the partition to the sleeve at the top thereof, and a conduit member extending through the partition adjacent one of said sealing members to a point adjacent the other of said sealing members.

2,646,348

## GASOLINE FUELS CONTAINING DIMETHYL CARBINOL AND SOLVENT OIL

**Joseph E. Neudeck, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**

**Application December 15, 1951, Serial No. 261,785**
**4 Claims. (Cl. 44—56)**

1. Novel composition consisting essentially of 30% to 19% by volume of a solvent oil consisting of a liquid hydrocarbon mixture having a kauri-butanol solvent power above about 20, a 50% distillation point above 350° F., a 10 mm. mercury pressure, a Saybolt viscosity at 100° F., not above 450 seconds, and an API gravity of about 18° to 28°, and from 70% to 81% by volume of dimethyl carbinol.

2,646,349

## LIGHT DISTILLATE COMPOSITIONS

**Don A. Wagner, Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application July 26, 1949, Serial No. 106,982**
**5 Claims. (Cl. 44—62)**

4. A composition of matter comprising predominantly a light oil product and containing 1 to 50 pounds of sulfurized tall oil per 1,000 barrels of the light oil produced.

2,646,350

## PETROLEUM HERBICIDE EMULSIONS

**Fritz S. Rostler, Bakersfield, Calif., assignor to Golden Bear Oil Co., Los Angeles, Calif., a corporation of California**

**No Drawing. Application June 17, 1950, Serial No. 168,864**
**8 Claims. (Cl. 71—2.3)**

1. As a herbicidal composition of matter, an emulsion comprising water as the continuous phase and as dispersed phase, a crude oil component, said component being a resinous petroleum fraction having a flash point above 250° C. substantially free of asphaltenes, containing saturated components in amount not greater than about 25% of the resinous fraction, and having a gravity of at least one, and a herbicide dissolved in said resinous petroleum fraction.

2,646,351

## PROCESS OF MANUFACTURING BASIC STEEL

**Karl Heimberg, Mulheim (Ruhr), Germany, assignor to Compagnie Generale des Conduites d'Eau, Les Vennes-Liege, Belgium**

**No Drawing. Application July 27, 1951, Serial No. 238,998. In Germany July 31, 1950**
**6 Claims. (Cl. 75—46)**

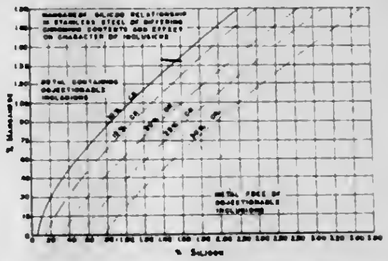
1. A process of producing high quality basic Thomas steel, comprising the steps of introducing into a cupola furnace an iron-containing material having a high sulfur content with an excess of carbon; passing a heated fluid containing oxygen into the thus charged cupola furnace while maintaining a reducing atmosphere in the same due to said excess of carbon, thereby melting said iron-containing material having said high sulfur content in a reducing atmosphere in said cupola furnace while preventing formation of iron oxides; passing said molten iron through a molten basic slag in said cupola furnace, said molten basic slag having a temperature exceeding 1400° C. so as to de-sulfurize said iron, thereby obtaining molten basic pig iron having a low sulfur content and being at a temperature exceeding 1400° C.; charging a Thomas converter with said molten basic pig iron having said low sulfur content and being at a temperature exceeding 1400° C.; and subjecting the thus charged molten basic pig iron to treatment in said Thomas converter and recovering a high grade basic Thomas steel.

2,646,352

## ALLOY STEEL PRODUCTS

**Harry Tanczyn, Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio**

**Application April 8, 1947, Serial No. 740,120**
**3 Claims. (Cl. 75—126)**



1. In manufactures of the class described, wrought and polished straight chromium stainless steel sheet, strip, wire, and like products containing large amounts of chromium and small

amounts of manganese and silicon which products are substantially free of surface-defacing complex silicate inclusions and comprise 10% to 27% chromium, up to about 0.2% manganese and from incidental amounts up to about 1% silicon with said manganese content restricted to amounts beneath the curve in the accompanying diagram corresponding to the specific amount of said chromium, and the remainder substantially all iron.

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2,646,353

## REMOVAL OF VOLATILE PRODUCTS FROM PHOTOGRAPHIC EMULSIONS

**George D. Hill and Rudolph E. Damschroder, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application December 31, 1948, Serial No. 68,744**

**3 Claims. (Cl. 95—7)**

1. The method of making a photographic silver halide emulsion which comprises reacting in an excess of aqueous ammoniacal solution in the presence of a peptizing hydrophilic colloid for silver halide, substantially equivalent quantities of silver nitrate and a water-soluble halide salt selected from the group consisting of alkali metal halides, ammonium halides and methylamine halides, to yield silver halide, a volatile nitrogenous product and a water-soluble non-volatile salt product, removing said volatile nitrogenous product from said emulsion only by passing the emulsion as a thin film of liquid through a chamber maintained at a pressure of from about 20–90 mm. of mercury and a temperature of from about 40–80° C. until the molecular equivalent amount of the nitrogenous product remaining in the emulsion is equal to less than about 22 grams of ammonia per kilogram of silver nitrate originally used in making the emulsion and converted to silver halide, and digesting the emulsion, the removal of nitrogenous product and digestion being effected within less than two hours.

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2,646,354

## THERAPEUTIC FAT PRODUCT

**Louis W. Wachtel and Curtis E. Meyer, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**

**No Drawing. Application February 9, 1951, Serial No. 210,295**

**5 Claims. (Cl. 99—123)**

1. A stable, free flowing, edible, concentrated, therapeutic source of calories having acceptable palatability and being suitable for repeated oral administration comprising: particles of a low-melting, non-drying, edible vegetable oil having an average diameter of about 0.5 micron stably suspended in a vehicle comprising a fifteen to twenty-five percent solution of a sugar in water and a suspension stabilizer, the amounts of vegetable oil and the sugar solution being such that between 35 percent and 45 percent of the total weight of the product is vegetable oil and between about 64 percent and about 54 percent of the total weight of the product is the sugar solution and at least 1.2 percent by weight of the product is suspension stabilizer, said suspension stabilizer consisting of a mixture of phosphatides and polyethylene glycol ether, the ratio of phosphatides to polyethylene glycol ether being such that

$$\%\ \text{phosphatide} + (\%\ \text{polyethylene glycol ether}) \times 10 = \text{at least } 3$$

the percentages being based on the total weight of the product, said product being characterized by being free flowing at room temperatures, showing no appreciable separation on standing at room temperatures for at least nine months or at forty-seven degrees centigrade for at least six weeks, being capable of dilution with at least an equal volume of water or other bland edible liquid without separation and being readily assimilable by the digestive tract of man and tolerated by those wherein the oral administration of therapeutic quantities of dietary fat is required.

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2,646,355

## PROCESS FOR BRIGHTENING FOODSTUFFS CONTAINING CARBOHYDRATES

**Hans-Heini Zweifel and Franz Ackermann, Binningen, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm**

**No Drawing. Application November 28, 1949, Serial No. 129,872. In Switzerland December 1, 1948**

**22 Claims. (Cl. 99—148)**

1. A foodstuff composition of enhanced whiteness which consists essentially of a carbohydrate selected from the group consisting of water-soluble saccharides and flours and 0.001 to 0.5 per cent, by weight of an odorless substance which is free from groups imparting dyestuff characteristics to the compound and when dissolved shows a blue to violet fluorescence in ultraviolet light, which is non-toxic to man when applied in the concentrations indicated above, and which is selected from the group consisting of compounds of the coumarin series substituted in the 7-position by a basic amino group, compounds of the coumarin series substituted in the 7-position by a hydroxy group, glucosides of compounds of the coumarin series substituted in the 7-position by a hydroxy group, esters of dihydrocollidine dicarboxylic acid, and alkali metal salts of dibenzofurane-3-hydroxy-4-carboxylic acid, said foodstuff composition appearing to be whiter in color than the carbohydrate per se.

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2,646,356

## WINTER VEGETABLE OILS AND PROCESS OF PREPARING THE SAME

**Harvey D. Royce, Savannah, Ga., assignor to The Southern Cotton Oil Company, Savannah, Ga., a corporation of New Jersey**

**No Drawing. Application July 28, 1951, Serial No. 239,187**

**6 Claims. (Cl. 99—163)**

1. A vegetable salad oil in which the resistance to clouding and solidification at freezing temperature has been enhanced by the incorporation therein of a small percentage of one or more materials selected from the group consisting of zirconium and zirconyl soaps of solid saturated fatty acids.

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2,646,357

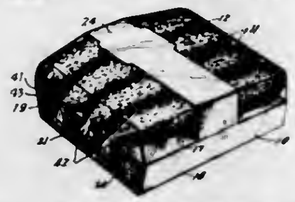
## PACKAGE

**Oscar E. Seiferth, Madison, Wis., assignor to Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois**

**Application April 12, 1950, Serial No. 155,512**

**14 Claims. (Cl. 99—174)**

1. A package of connected link sausages comprising a backing member formed of paperboard and having a central portion on opposite faces of which a plurality of sausage links are arranged in side-by-side row forming relation, integral side wall forming members extending along the end sausages in the one row of said sausages, bottom forming flaps extending along the outer face of said one row of sausages, a top strap member of substantially less width than said central portion of said backing member extending over the row of sausages on the opposite face of said central portion and connected at opposite ends to the side edges of said central portion, said central portion of said backing member being provided with spaced, relatively shallow, inwardly extending slots along the end edges thereof adapted to accommodate the connecting casing areas between said sausages, and an outer wrapping member enclosing said backing member and said sausages.



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2,646,358

## COATING FOR FOOD CONTAINERS

**Albert C. Edgar, Palos Heights, Ill., assignor to Wilson & Co., Inc., a corporation of Delaware**

**No Drawing. Application April 23, 1947, Serial No. 743,474**

**4 Claims. (Cl. 99—187)**

1. The process of preventing the adhesion of proteinaceous meaty material to the interior surfaces of a container therefor after the said material has been cooked therein, said method comprising cooking the said meaty material in a container having its interior surfaces covered with an exposed film of a material selected from the group consisting of rosin, hydrogenated rosin, abietic acid and mixtures thereof, while the said meaty material is in contact with said film.

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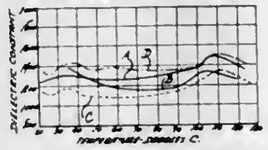
2,646,359

## MODIFIED BARIUM TITANATE CERAMIC MATERIALS

**Eugene Wainer, Cleveland, Ohio, assignor, by mesne assignments, to Radio Corporation of America, a corporation of Delaware**

**Application April 10, 1951, Serial No. 220,162**

**8 Claims. (Cl. 106—39)**




1. A vitreous ceramic material comprising barium titanate and a substance from the class consisting of sodium and potassium columbates and tantalates, the percentage by weight of said sodium or potassium compounds being within the range of about 0.5 and about 50.

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2,646,360

## LOW-WATER-LOSS CEMENT SLURRY

**Peggy J. Lea, Kansas City, Mo., assignor to Phillips Petroleum Company, a corporation of Delaware**

**No Drawing. Application August 29, 1949, Serial No. 113,031**

**2 Claims. (Cl. 106—90)**

1. A cement capable of forming a fluid aqueous slurry when mixed with water consisting of hydraulic cement mixed with from 0.1 to 3 weight per cent of a lignin sulfonate selected from the group consisting of alkali metal, alkaline earth metal, magnesium and ammonium lignin sulfonates, and from 0.05 to 3 weight per cent of an ionizable alkali metal compound selected from the group consisting of alkali metal salts of inorganic acids and alkali metal hydroxides, said percentages being percentages of the weight of the dry hydraulic cement.

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2,646,361

## DUST-LAYING EMULSION

**Fritz S. Rostler, Bakersfield, Calif., assignor to Golden Bear Oil Co., Los Angeles, Calif., a corporation of California**

**No Drawing. Application June 26, 1950, Serial No. 170,487**

**8 Claims. (Cl. 106—238)**

1. As a composition of matter, a water emulsion of an agglomerant and adhesive material suitable for agglomeration and binding of earths and solid particles comprising water as the continuous phase and a dispersed phase comprising a resinous petroleum fraction substantially free of asphaltenes and containing saturated components in amount not substantially greater than about 25% of the said resinous petroleum fraction.

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2,646,362

## PARAFFIN WAX COMPOSITION

**Robert G. Capell, William P. Ridenour, and John A. Stewart, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware**

**No Drawing. Application June 30, 1950, Serial No. 171,528**

**6 Claims. (Cl. 106—270)**

1. An improved wax composition comprising a major amount of a paraffin wax and a minor amount, sufficient to inhibit oxidative deterioration, of hydroquinone monobenzyl ether.

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2,646,363

## SEALING COMPOSITION FOR TRANSPARENTIZED PAPER

**Robert R. Parmentier, Upper Darby, Pa.**

**No Drawing. Original application April 12, 1950, Serial No. 155,565. Divided and this application October 18, 1950, Serial No. 190,882**

**3 Claims. (Cl. 106—271)**

1. A sealing composition for transparentized paper, comprising 2–6 vol. % petroleum wax having a melting point of from 115° F. to 200° F., from 31–47 vol. % of a gasoline hydrocarbon fraction, and from 47–67 vol. % carbon tetrachloride.

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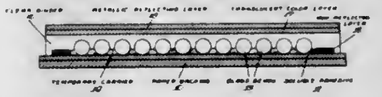
2,646,364

## METHOD OF PRODUCING REFLECTING FILMS, DECALCOMANIAS, AND SIGNS

**Frank L. Porth, Hillside, Ill., assignor to The Meyercord Company, Chicago, Ill., a corporation of Illinois**

**Application July 15, 1949, Serial No. 104,952**

**8 Claims. (Cl. 117—3.5)**



7. The method of forming a reflecting decalcomania containing a multiplicity of small trans-

parent glass beads which comprises squeegeeing through a stencil screen onto a releasable backing a mixture of a temporary removable carrier material in liquid form and a multiplicity of small transparent glass beads of substantially uniform diameter, the thickness of said screen being only slightly greater than the diameter of the glass beads whereby to permit substantially only a single layer of beads to enter the interstices of the screen and said carrier material containing a relatively large quantity of an evaporable solvent such that the viscosity of the carrier material permits said glass beads to settle therethrough into contact with said backing and said carrier material being capable of drying to a removable film of reduced thickness for exposing the upper portions of said glass beads, drying the mixture to form said film of reduced thickness whereby to expose the upper portions of said beads, applying a layer of a permanent binder material in liquid form over and between the exposed upper portions of the beads, said binder material being strongly adherent to the beads but readily releasable from said carrier material, and drying the binder layer to permanently embed the beads therein.

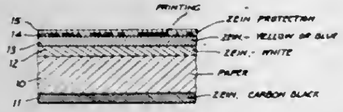
2,646,365

## BACKING PAPER FOR ROLL PHOTOGRAPHIC FILM

**Ernest L. Baxter, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**Application September 27, 1950, Serial No. 187,124**

**2 Claims. (Cl. 117—14)**




1. Photographic backing paper comprising a single sheet of black kraft paper as contrasted to a multiple sheet duplex paper of a thickness within the range of 0.0026 to 0.0030 inch which will permit passage of substantial amounts of actinic light, having a coating on one surface of carbon black in a binder, a composite lighter colored coating on the opposite surface comprising a first coating of zein containing titanium dioxide and a second coating thereover comprising zein containing a yellow pigment, printing on said composite lighter colored coating, and a clear zein protective coating thereover, the complete backing paper having a thickness less than 0.0040 inch and being sufficiently opaque to prevent actinic light rays from passing therethrough.

2,646,366

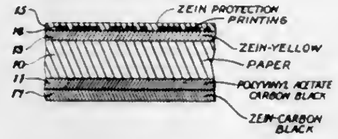
## BACKING PAPER FOR ROLL PHOTOGRAPHIC FILM

**Ernest L. Baxter, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**Application December 8, 1951, Serial No. 260,714**

**2 Claims. (Cl. 117—14)**

1. Photographic backing paper having an overall thickness less than 0.0040 inch comprising a single sheet of kraft paper, as contrasted to a multiple sheet of duplex paper, of a thickness of approximately 0.0026 inch which will permit passage of substantial amounts of actinic light, having on one side an opaquing coating comprising carbon black in a polyvinyl acetate binder which is overcoated with a second opaquing coating comprising carbon black in a zein binder, a lighter colored pigmented coating on the opposite surface of the paper comprising a




yellow pigment in a zein binder, printing on said lighter colored coating, and a clear zein protective coating thereover, the complete backing paper being sufficiently opaque to prevent actinic light from passing therethrough.

2,646,367

## TRANSFER PAPER

**Chester Davis and Ned A. Thacker, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**

**No Drawing. Application June 28, 1951, Serial No. 234,161**

**2 Claims. (Cl. 117—36)**

1. A manifold sheet for use in conjunction with a copy-receiving sheet sensitized on the copy-receiving surface thereof with particles of inorganic clay-like material, said particles having acid-like adsorbent surfaces, including a base web; and a film on said web of a substantially colorless hydrophobic low polarity wax having mixed therein a substantially colorless atmospherically stable hydrophobic oil containing a substantially colorless hydrophobic double bond aromatic atmospherically stable adsorbate compound, which organic compound is converted to a more highly polar conjugated form accompanied by the appearance of a distinctive color therein when adsorbed on particles of inorganic clay-like material which acts as an electron acceptor with respect to said organic compound on adsorption contact therewith, and the oil and adsorbate compound being 25% to 75% of the total weight of the film.

2,646,368

## WATER-REPELLENT NONFIBROUS CELLULOSIC MATERIAL AND PROCESS OF PREPARING SAME

**William M. Wooding, Springdale, and Tzeng Jiueq Suen, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Continuation of abandoned application Serial No. 160,386, May 5, 1950. This application July 1, 1952, Serial No. 296,708**

**10 Claims. (Cl. 117—76)**

1. A process for treating non-fibrous regenerated cellulosic films comprising the steps of impregnating the surface of said films with a water soluble urea-formaldehyde resin modified by reaction with a compound having the general formula: $NH_2(CH_2)_nOSO_3X$, wherein $n$ is a whole number between 1 and 6, inclusive, and X is a member of the group consisting of H, Li, Na, $NH_4$, K and hydrogen in combination with a water soluble tertiary amine, wherein the mol ratios of urea, formaldehyde and aforementioned compound are within the range 1:1.5:0.015 and 1:3.0:0.25, respectively, introducing a plasticizing agent into the film, drying the film, thereby partially polymerizing said resin and applying a water repellent coating thereto.



2,646,369

## PROCESS OF TRANSPARENTIZING PAPER

**Robert R. Parmentier, Upper Darby, Pa.**

**No Drawing. Original application April 12, 1950, Serial No. 155,565. Divided and this application October 18, 1950, Serial No. 190,883**

**8 Claims. (Cl. 117—92)**

1. Process for transparentizing paper which comprises applying a solution consisting of 10–35 vol.% mineral oil boiling in the lubricating oil range, from 4–10 vol.% of a material selected from the group consisting of benzene, toluene, and xylene, and from 55–80 vol.% carbon tetrachloride to paper and then applying a sealing solution consisting of from 2–6 vol.% petroleum wax having a melting point of from 115° F. to 200° F., from 31–47 vol.% gasoline hydrocarbon fraction, and from 47–67 vol.% carbon tetrachloride to said paper.

2,646,370

## METHOD OF MAKING LOW-TEMPERATURE METEOROLOGICAL BALLOONS

**Eric Nelson, Madison, N. J., assignor to the United States of America as represented by the Secretary of the Army**

**No Drawing. Application July 26, 1951, Serial No. 238,767**

**2 Claims. (Cl. 117—94)**

1. A method of improving the freeze resistance of meteorological neoprene balloons which comprises applying to the surfaces of the fully cured and deflated neoprene balloon a solution of a plasticizer, compatible with neoprene, in an organic liquid medium which is a non-solvent for vulcanized neoprene, inflating said balloon and allowing the balloon to dry until said organic liquid medium has evaporated and the plasticizer has been absorbed by the neoprene film.

2,646,371

## ADHESIVE SHEETS

**James A. McGarry, New Brunswick, N. J., assignor to Permacel Tape Corporation, a corporation of New Jersey**

**No Drawing. Application April 29, 1949, Serial No. 90,544**

**5 Claims. (Cl. 117—122)**

1. An adhesive sheet comprising a backing having hydrophilic characteristics and a coating of a normally tacky and pressure-sensitive adhesive mass united to said backing; said adhesive mass including a major portion of at least one elastomeric base selected from the group consisting of: natural rubber; synthetic polyisoprene; the vulcanizable elastomeric polymers and interpolymers of from about 40 to about 90 per cent butadiene and from about 10 to about 60 per cent styrene; polyacrylate copolymers and interpolymers; and the lower vinyl ether polymers; and a minor proportion, not more than five per cent by weight, of one or more specific mass deactivators having the property of reducing the adhesion of said adhesive mass to materials having hydrophilic characteristics relatively much more than they reduce the adhesion of said adhesion mass to materials having hydrophobic characteristics, which deactivators are: 1. surface active; 2. water-insoluble and oil-soluble emulsifiers of the water-in-oil type; 3. materials having a solidification point in excess of −10° C.; 4. dispersible in said adhesive mass comprising phospholipid material.

2,646,372

## IMPREGNATING CELLULOSE FIBERS AND COMPOSITION THEREFOR

**Thomas C. Whitner, Elizabeth, N. J.**

**No Drawing. Application May 16, 1947, Serial No. 748,674**

**14 Claims. (Cl. 117—143)**

1. The process for treating cellulose fibers which comprises impregnating said fibers with an aqueous solution of a tetra-alkylol ammonium hydroxide-copper complex and a tetra-alkylol ammonium hydroxide and in which solution are dissolved silk fibers, washing said impregnated fibers with an aqueous solution of an acidic agent yielding water-soluble salts with said copper complex and with said tetra-alkylol ammonium hydroxide, and removing substantially all of said water-soluble salts from said cellulose fibers.

2,646,373

## TREATMENT OF PAPERMAKING FIBERS WITH ORGANOSILICON COMPOUNDS

**Clinton W. MacMullen, Fayetteville, and Richard C. Shaver and Robert L. Titus, Syracuse, N. Y., assignors to Cowles Chemical Company, Cleveland, Ohio, a corporation of Ohio**

**No Drawing. Application January 20, 1950, Serial No. 139,788**

**5 Claims. (Cl. 117—155)**

1. A method of sizing paper to improve such properties as wet strength and water resistance thereof which comprises contacting an organotrihalosilane wherein the organo substituent is selected from the group consisting of n-butyl, mixed amyl, and benzyl radicals with an aqueous alkali while maintaining the concentration of alkali at a sufficiently high value to provide a stable solution of the alkaline hydrolysis products of the organohalosilane, adding an acid to the resulting solution to reduce the pH thereof to about 7, treating said paper with said solution to deposit an insoluble organosilicon compound on the fibers thereof, and drying and heating said paper to an elevated temperature to complete polymerization of said deposited compound.

2,646,374

## TEXTILE INTERLINER FABRIC FOR GARMENTS AND METHOD OF MAKING THE SAME

**Robert H. Gillespie, Walpole, Mass., assignor to The Kendall Company, Boston, Mass., a corporation of Massachusetts**

**No Drawing. Application February 14, 1950, Serial No. 144,203**

**7 Claims. (Cl. 117—161)**

1. An interliner fabric adapted to be bonded by heat and pressure to a face fabric to form washable wrinkle-resistant articles of apparel such as collars, cuffs, shirt bosoms and the like characterized by a desirable initial softness and flexibility persisting substantially throughout the life of the article of apparel, comprising a fabric coated with a mixture of separately-polymerized synthetic organic resins comprising 1 to 6 parts of a high-molecular-weight emulsion-polymerized vinyl chloride polymer having an average molecular weight above about 20,000 and a combined vinyl chloride content in excess of 90% by weight of the polymer, dispersed as a distinct undissolved solid phase in 1 part of a low-molecular-weight vinyl chloride polymer having an average molecular weight between about 5000 and 16000 and a combined vinyl chloride content in excess of about 60% by weight of the polymer, and a plasticizer in an amount between about 37% and 58% by weight of the total polymer content.

2,646,375
**PROCESS FOR HARDENING ALLOY GRAY CAST IRON**
**Frederick George Sefing, Cranford, N. J., assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware**
**No Drawing. Application November 20, 1950, Serial No. 196,716**
**6 Claims. (Cl. 148—21.7)**

1. The process for producing a hardened alloy cast iron casting which comprises heating within the range of about 1600° F. to about 1800° F. a casting comprised of an alloy gray cast iron containing about 2.25% to about 3.25% total carbon, about 7% to 9% nickel, about 3% to about 4.5% copper, the sum of the nickel and copper contents being about 10% to 12%, about 1% to 4% chromium, about 1.5% to 3% silicon, about 0.3% to 1% manganese and the balance essentially iron, and thereafter slowly cooling said casting from within said temperature range to below about 900° F. at an average rate not exceeding about 50° F. per hour to impart to said casting a hardness of at least about 450 Brinell.

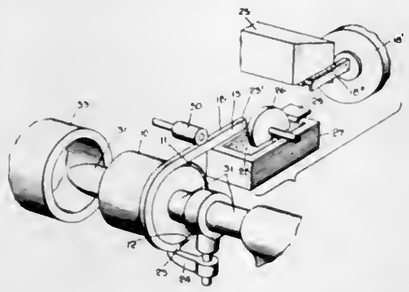
2,646,376
**FUEL BURNER LINER**
**David Meyer, Canton, Ohio, assignor to Meyer-Baizer Fuel Unit, Incorporated, Dover, Ohio, a corporation of Ohio**
**No Drawing. Application May 2, 1951, Serial No. 224,253**
**11 Claims. (Cl. 154—44)**

6. A porous refractory fuel burner combustion tunnel liner material consisting of relatively thick layers of a body of crushed high fusion ceramic material selected from the class consisting of firebrick and silicon-carbide mixed with binder material selected from the class of high fusion clays and dolomite, and paper thin layers of a mixture of about one part by weight each of powdered alum, permanganate of potash and salicyclic acid, and sixteen parts of plaster of Paris, the amount of the mixture being approximately .8% by weight of the body material.

2,646,377
**METHOD OF MAKING AND BONDING BRAKE FRICTION MATERIAL TO A BRAKE SHOE**
**Sydney G. Tilden, Jr., Stewart Manor, N. Y., assignor to The Permafuse Corp., a corporation of New York**
**No Drawing. Application January 3, 1949, Serial No. 69,039**
**2 Claims. (Cl. 154—81)**

1. The method of bonding a brake friction material segment to a brake shoe by a bonding tape, which consists in subjecting a sheet of indiscriminately disposed asbestos fibers to a soaking and coating with an adhesive composition comprising 35 to 45% thermosetting resinoid of the phenol aldehyde type in a mixed solution of 45 to 60% anhydrous denatured ethyl alcohol and 3 to 10% isophorone, drying said sheet under heat to evaporate the anhydrous denatured ethyl alcohol to the extent that substantially only the isophorone and resinoid remain in the resulting tape, and subjecting said tape to heat and pressure bonding between the brake friction material and the brake shoe, at which time the isophorone produces a flow of the resinoid and the resinoid is completely polymerized, and the isophorone is completely evaporated, said completely polymerized resinoid being free from all solvents, whereby the time element from the date of manufacture of the tape to its latest date of usefulness for said bonding has been increased by the presence of the isophorone.

2,646,378
**METHOD OF PRODUCING PLASTIC RIMMED SPOOLS**
**Louis H. Morin, Bronx, N. Y., assignor to Coats & Clark Inc., a corporation of Delaware**
**Application March 5, 1951, Serial No. 213,967**
**9 Claims. (Cl. 154—81)**



5. The herein described method of applying extruded plastic strip material onto a body fixed to a rotatable mandrel, which comprises severing said strip to length, delivering one end of a severed strip onto said body, gripping said end of the strip on the body, then rotating the body with the gripped strip thereon in winding the strip on the body, and then ejecting the body from said mandrel.

2,646,379
**METHOD OF DECORATING AN UNCURED RUBBER ARTICLE**
**Alfred B. Poschel, Chicago, Ill., assignor to The Meyercord Co., Chicago, Ill., a corporation of Illinois**
**Application November 8, 1949, Serial No. 126,114**
**6 Claims. (Cl. 154—95)**



1. A method of decorating an uncured rubber article by means of a decalcomania transfer including a thin uncured rubber design film supported on a releasable backing having a coating of a varnish-resistant sealer thereon, said film being sufficiently thin so as to be non-self-sustaining in the absence of said backing, said method comprising the steps of pressing said design film against the tacky surface of the uncured rubber article with the backing outermost, applying a gloss-imparting varnish to the article and to the exposed outer surface of the backing, said sealer coating preventing penetration of the varnish through said backing to said design film, and vulcanizing the article whereby to integrate the thin design film with the surface of the article for providing a substantially smooth uniform coplanar decorated surface and whereby simultaneously to effect substantially complete release of said backing from the decorated surface.



2,646,380
**METHOD OF MOLDING THERMOSETTING SYNTHETIC RESIN MATERIALS**
**Alfred Charles Barlow, Parkway, Hillingdon, William George David Carpenter, Hayes, James Brisbane Cameron, Hounslow, and John Matthias Griffith, Isleworth, England, assignors to The Fairey Aviation Company Limited, Hayes, England**
**Application August 28, 1950, Serial No. 181,916**
**In Great Britain July 12, 1950**
**5 Claims. (Cl. 154—100)**



1. A method of applying a design to an article during the moulding of the article from a thermosetting moulding powder, comprising, applying the required design to absorbent paper of a thickness of 1.5 to 7.0 thousandths of an inch, impregnating the decorated paper with a synthetic resin varnish of the same group as the thermosetting moulding powder, passing the impregnated paper between rolls and thereby removing excess resin, drying the impregnated paper, moulding the article, opening the mould before curing is completed, applying the impregnated sheet to the surface to be decorated with the decorated side of said sheet toward the moulded article, completing the curing of the article, and removing the moulding.

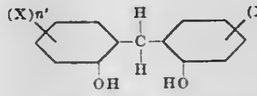
2,646,381
**METHOD FOR DISPERSING AND FELTING FIBERS AND MILL**
**Thure C. Duvall, Cloquet, Minn., assignor to Wood Conversion Company, St. Paul, Minn., a corporation of Delaware**
**Application December 1, 1949, Serial No. 130,549**
**12 Claims. (Cl. 154—101)**



8. The method which comprises distributing substantially individualized fibers into a moving stream of air over a fiber-distributing area extending substantially crosswise of the stream, collecting the fiber-laden air moving from said area and conducting it to a discharge nozzle of substantially uniform cross-sectional area and simultaneously increasing the velocity of the fiber-laden air on all the lines of travel from said area to said nozzle by gradually constricting the cross-section of the stream as it moves from said area to said nozzle, whereby the increased velocity minimizes tendencies of the fibers to clot, discharging the fiber-laden stream from said nozzle and simultaneously expanding said stream at the point of discharge from said nozzle, whereby to lessen the velocity of the moving fiber from the other fibers, dispersing an aqueous mist of liquid containing adhesive into the separated fibers whereby to wet the fibers with said adhesive-containing liquid, collecting and felting the wet adhesive bearing separated fibers in the form of a felted fiber body by allowing the fibers to settle by gravity onto a collecting area, and drying the resulting felted body to set the adhesive.

2,646,382
**ANTHELMINTIC COMPOSITIONS**
**Arthur Henry Craige, Jr., Riverdale, Md., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware**
**No Drawing. Application March 28, 1951, Serial No. 218,070**
**6 Claims. (Cl. 167—53)**

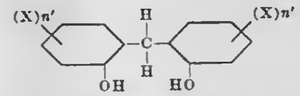
1. A veterinary anthelmintic composition comprising an aqueous liquid preparation containing suspended therein as the essential active ingredient an effective amount and at least about 2% of a solid substance represented by the following formula:




in which X represents a halogen selected from the group consisting of chlorine and bromine wherein said halogen substituents are arranged symmetrically and $n'$ is a small whole number from 1 to 4.

2,646,383
**ANTHELMINTIC COMPOSITIONS**
**Arthur Henry Craige, Jr., Plainfield, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware**
**No Drawing. Application May 28, 1952, Serial No. 290,566**
**11 Claims. (Cl. 167—53)**

1. A veterinary anthelmintic composition containing as one of the essential active ingredients, a diphenylmethane substance represented by the following formula:




in which X represents a halogen selected from the group consisting of chlorine and bromine and $n'$ is a small whole number of from 1 to 4, and wherein one of the halogens on each of the rings is in the 5 position and wherein any additional halogen substituents are arranged symmetrically, and as another essential active ingredient, at least one other substance having an anthelmintic action, said ingredients being present in the ratio of about one part of the diphenylmethane substance to said other substance falling within the range of from about 0.01 to about 10.0 parts.

2,646,384
**THERAPEUTIC WATER-SOLUBLE CHLOROPHYLL-CONTAINING FEED**
**Morris L. Rakieten, Islip, N. Y., assignor to Rystan Company, Inc., Mount Vernon, N. Y., a corporation of New York**
**No Drawing. Application August 3, 1950, Serial No. 177,571**
**7 Claims. (Cl. 167—53.1)**

2. Duck feed comprising edible matter in a finely divided state and a minor proportion of water-soluble chlorophyll substantially uniformly distributed therethrough.

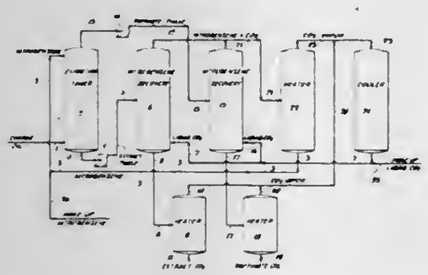
**2,646,385**
**PHARMACEUTICAL PRODUCT FOR DYSMENORRHEA**
**Mozes J. Lewenstein, Richmond Hill, N. Y.**
**No Drawing. Application June 1, 1951, Serial No. 229,538**
**9 Claims. (Cl. 167—55)**

1. As a new pharamaceutical product, a composition comprising the following active ingredients: a simple salt of dihydrohydroxycodeinone with a non-toxic acid, used in an amount equivalent to 2 to 10 parts of dihydrohydroxycodeinone hydrochloride; a double salt of dihydrohydroxycodeinone and homatropine with a non-toxic acid, used in an amount equivalent to 0.25 part to 1.50 parts of dihydrohydroxycodeinone homatropine terephthalate; at least one substance selected from the group of acetophenetidine and acetylsalicylic acid, the acetophenetidine being used in an amount of 80 to 350 parts and the acetylsalicylic acid being used in an amount of 100 to 600 parts; and 150 to 1000 parts of alpha-mono-brom-iso-valerianyl-urea.

**2,646,386**
**PROCESS OF PREPARING VITAMIN $B_{12}$-ACTIVE PRODUCT FROM SEWAGE SLUDGE**
**Carl Shelley Miner, Jr., Winnetka, and Bernard Wolnak, Chicago, Ill., assignors to Sewerage Commission of the City of Milwaukee, Milwaukee, Wis., a corporation of Wisconsin**
**No Drawing. Application March 3, 1951, Serial No. 213,794**
**5 Claims. (Cl. 167—81)**

1. A process of preparing a product having a high vitamin $B_{12}$ potency which comprises extracting with a solvent for vitamin $B_{12}$ a water-soluble fraction from a solid sludge resulting from the microbiological treatment of sewage comprising a mass of microbial cells having disorganized cell walls whereby to produce a solution having said water-soluble fraction dissolved therein, separating undissolved solid sludge from said solution, and concentrating said fraction in said solution whereby to produce said product.

**2,646,387**
**SOLVENT RECOVERY WITH LIQUID CARBON DIOXIDE**
**Alfred W. Francis, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**Application May 17, 1950, Serial No. 162,587**
**10 Claims. (Cl. 196—14.15)**



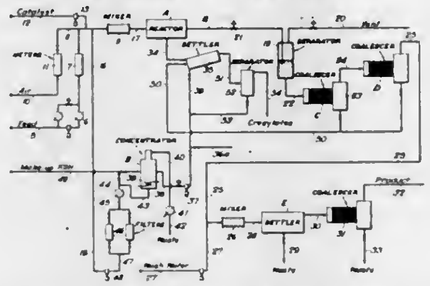
1. In a solvent recovery following a solvent extraction treatment of a mixture selected from the group consisting of hydrocarbon mixtures ranging from gas oils to lubricating oil stocks, with a solvent identified hereinbelow, and in which solvent extraction treatment a phase comprising raffinate comprising solvent and a phase comprising solvent containing extract are formed, said solvent extraction treatment being conducted in the absence of liquid carbon dioxide, the improvement which comprises: extracting a solvent-extraction phase with liquid carbon dioxide under pressure sufficient to maintain a carbon dioxide-rich phase in the liquid state, whereupon a solvent-liquid carbon dioxide phase and a hydrocarbon phase are formed; separating said solvent-liquid carbon dioxide phase and said hydrocarbon phase; and removing carbon dioxide from said solvent-liquid carbon dioxide phase, whereby said solvent is recovered substantially free from components of said mixture; the solvent being selected from the group consisting of: acetic anhydride, acetonitrile, acetonyl acetone, acetophenone, benzaldehyde, benzoic anhydride, benzonitrile, butyl phthalate, Carbitol (diethylene glycol monoethyl ether), chloracetic acid, $\beta$-chloroethanol (ethylene chlorohydrin), $\beta$-chloroethyl acetate, Chlorex ($\beta,\beta'$-dichlorodiethyl ether), o-chlorophenol, cinnamaldehyde, cinnamyl alcohol, diacetone alcohol, dimethyl formamide, dipropylene glycol, ethyl acetoacetate, ethylchloroacetate, ethylene diformate, ethyl lactate, ethyl maleate, ethyl oxalate, $\beta$-ethoxyethanol, ethyl succinate, ethyl sulfate, furfural, furfuryl alcohol, hydrocinnamaldehyde, $\beta$-methoxyethanol, methyl phthalate, methyl salicylate, methyl sulfate, nitrobenzene, o-nitrochlorobenzene, nitroethane, nitromethane, o-nitrophenol, 1-nitropropane, p-nitrotoluene, phenol, phenylacetonitrile, phenylethanol, phenylethanolamine, phenyl salicylate, pinacol, salicylaldehyde, tetrahydrofurfuryl alcohol, triacetin, and triethylene glycol.

**2,646,388**
**HYDRODESULFURIZATION PROCESS**
**Vincent L. Crawford, Fox Chapel, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware**
**No Drawing. Application April 20, 1951, Serial No. 222,150**
**4 Claims. (Cl. 196—28)**

1. The process for sulfurizing a hydrocarbon which comprises contacting vapors of a sulfur-containing hydrocarbon at elevated pressure and at a temperature between about 820° and 875° F. with hydrogen and a nickeliferous agent comprising between about 15 and 25 per cent nickel calculated as oxide deposited upon a porous support, a substantial portion of said nickel being in the metallic form, terminating contact between the vapors, hydrogen, and nickeliferous agent when regeneration is required, depressurizing, regenerating the nickeliferous agent by combustion, at least partially reducing the regenerated nickeliferous agent by treating said agent at an initial reduction temperature between about 750° and 800° F. and at a pressure approximately equal to the reaction pressure with steam and simultaneously treating said agent with a reducing gas, the mol ratio of steam to reducing gas being between about 4.5:1 and 28:1 and being such as to give said agent a final temperature after reduction at least about 40° F. higher than the initial reduction temperature but between about 820° and 875° F., terminating the flow of steam and immediately contacting vapors of the sulfur-containing hydrocarbon with hydrogen and the regenerated and at least partially reduced nickeliferous agent while still at approximately said final temperature and reaction pressure.

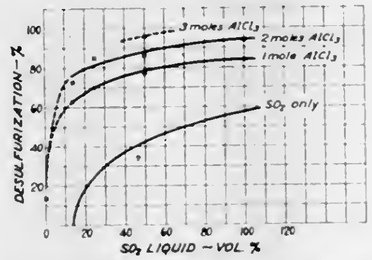


**2,646,389**
**SWEETENING HYDROCARBON DISTILLATES**
**Gert H. Weisemann, Hobart, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application March 8, 1950, Serial No. 148,303**
**9 Claims. (Cl. 196—29)**



1. The process of removing mercaptans from sour hydrocarbon distillate which is higher boiling than gasoline without formation of excessive color therein, which comprises dispersing a copper catalyst in the distillate, intimately contacting said catalyst-containing distillate with about 1 to 15 per cent by volume of an aqueous solution of KOH having a concentration of about 50 to 60 per cent, said copper catalyst, which ranges from about 0.004 to 0.1 per cent by weight of copper based on the caustic solution, forming a catalytically active copper compound when contacted with the caustic solution, introducing a gas containing an amount of free oxygen about stoichiometrically equivalent to the amount of mercaptans present in said distillate into the mixture of catalyst-containing distillate and KOH, maintaining the temperature of contacting at about 80 to 125° F. until a substantial reduction in mercaptan content has been obtained and separating spent KOH solution and associated reaction products from the treated oil.

**2,646,390**
**DESULFURIZATION OF DISTILLATE FUELS**
**Robert C. Arnold, Park Forest, Ill., and Arthur P. Lien, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Application December 16, 1950, Serial No. 201,174**
**3 Claims. (Cl. 196—30)**




1. A process for refining a high-sulfur virgin petroleum distillate fuel, which process comprises contacting said distillate, at a temperature of between about —20° and about —40° C., with between about 0.5 and 3 gram mols of substantially anhydrous aluminum chloride per gram atom of sulfur in said distillate in the presence of at least sufficient liquid sulfur dioxide to form distinct raffinate and extract phases, separating said phases and recovering from said raffinate phase a product oil characterized by a sulfur content lower than that of said distillate, a Saybolt color not more than about that of said distillate, and improved burning quality.

**2,646,391**
**METHOD OF AND APPARATUS FOR CONVERTING HYDROCARBONS**
**Eugene Jules Houdry, Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware**
**Application October 25, 1947, Serial No. 782,165**
**14 Claims. (Cl. 196—52)**

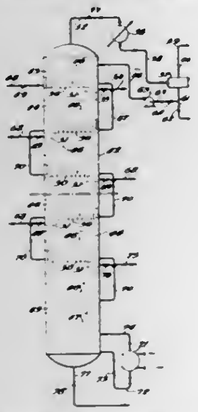


1. In a hydrocarbon cracking process comprising a cracking period and a regeneration period; during which cracking period hydrocarbons contact successively a plurality of beds of static granular catalytic contact material under endothermic cracking conditions and thereby concomitantly deposit coke on each bed in an amount such that subsequent combustion of said coke under the regeneration conditions described hereafter generates an amount of heat such that each of said beds contains, at the close of the regeneration period, stored heat considerably in excess of the endothermic heat of cracking; during which regeneration period oxygen containing gas contacts each of said beds comprising said amounts of coke and effects combustion of the coke on each bed under conditions such that, at the termination of the regeneration period, all portions of each bed are at least at cracking temperature and a portion of each bed intermediate to the locations at which gas enters and leaves said bed is at a higher temperature than the remainder of said bed: the improvement which comprises passing said hydrocarbons through a plurality of annular cracking zones, each cracking zone containing one of said beds of static granular catalytic contact material, solely in a direction normal to the axes of said cracking zones; removing a portion of the heat stored in the catalytic contact material in each bed as sensible heat in the hydrocarbon vapors emerging therefrom, whereby the temperature of the effluent hydrocarbon vapors from each of said beds is higher than the temperature of the entering hydrocarbon vapors; passing hot hydrocarbon vapors immediately after emergence from an annular cracking zone and prior to introduction to the next successive annular cracking zone through a central vapor-liquid mixing zone; injecting into said central vapor-liquid mixing zone,

at one end thereof, liquid vaporizable hydrocarbon material at a temperature lower than the temperature of the hot hydrocarbon vapors entering said zone; vaporizing substantially all of said hydrocarbon material by contact with said hot hydrocarbon vapors and producing a mixture of said hot hydrocarbon vapors and vapor from said hydrocarbon material, said mixture having a substantially lower temperature than that of the hot hydrocarbon vapors entering the central mixing zone; and introducing said mixture to the periphery of said next successive cracking zone.

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**2,646,392**
**APPARATUS FOR FRACTIONATING MULTI-COMPONENT STREAMS**
**Clarence G. Gerhold, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application April 29, 1949, Serial No. 90,486**
**6 Claims. (Cl. 196—139)**

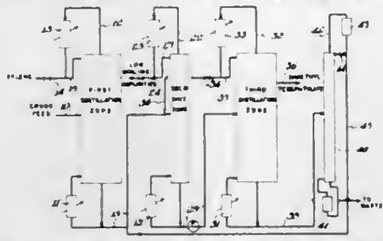


1. In a fractionating column, the combination of a bubble tray and a partition therebelow extending across the column, a heat exchange tray on said partition and spaced from the walls of the column, thereby providing a liquid well at each end of the heat exchange tray, a downspout depending from said bubble tray into one of said wells, said heat exchange tray being constructed and arranged to form with said partition a plurality of alternating liquid and vapor channels, means for passing liquid from the last-mentioned well through said liquid channels to the other of said wells, means for removing liquid from said other well and from the column, a condensate collecting trough depending from said partition and a condensate outlet therefrom, and a vapor passageway through said trough communicating with said vapor channels.

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**2,646,393**
**PROCESS FOR THE PURIFICATION OF DIMETHYL TEREPHTHALATE BY DISTILLATION**
**Jesse Edward Hughes, Bridgeport, N. J., Harold Steen Kemp, Elsmere, and Cyrus Pyle, New Castle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application June 21, 1952, Serial No. 294,824**
**3 Claims. (Cl. 202—40)**

1. A continuous process for the distillation purification of dimethyl terephthalate contaminated with xylene, methyl hydrogen terephthalate and low-boiling impurities, including methyl benzoate and other low boilers, comprising introducing the impure material into a first distillation zone, distilling said impure material in said first distillation zone and removing substantially all of said xylene as a first vaporous overhead product, condensing said first vaporous overhead product and returning a portion thereof to said first distillation zone as reflux, withdrawing a first bottom product from said first distillation zone and introducing said first bottom product into a second distillation zone, distilling said first bottom product in said second distillation zone and removing a substantial amount of said low-boiling impurities together with remaining xylene as a second vaporous overhead product from said second distillation zone, condensing said second vaporous overhead product and returning a portion thereof as reflux to said second distillation zone, withdrawing a second



bottom product from said second distillation zone and introducing said second bottom product into a third distillation zone consisting of a plate type column, distilling said second bottom product in said third distillation zone and removing substantially all of the remainder of said low boiling impurities as a third vaporous overhead product, condensing said third vaporous overhead product and returning a portion thereof as reflux to said third distillation zone, withdrawing as a third bottom product from said third distillation zone a mixture containing substantially all of said methyl hydrogen terephthalate both introduced and produced and some dimethyl terephthalate, and withdrawing as a liquid side cut from a point intermediate the point of introduction of said second bottom product into said third distillation zone and the point of withdrawal of said third vaporous overhead product from said third distillation zone substantially pure dimethyl terephthalate.

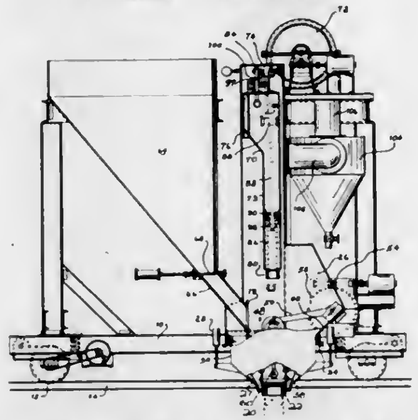
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**2,646,394**
**REFINING OF LONG CHAIN ALIPHATIC ALCOHOLS**
**Ralph V. Green and Ernest P. Jensen, Charleston, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application December 27, 1950, Serial No. 203,020**
**7 Claims. (Cl. 202—57)**

1. In a process for the recovery of long chain aliphatic alcohols from the reaction mixture obtained by the hydrogenation of compounds of the group consisting of corresponding long chain aliphatic acids and their esters in the presence of a metal hydrogenation catalyst, the steps which comprise separating by filtration the solid catalyst from the reaction mixture and thereafter precipitating dissolved metals from the solid catalyst-free reaction mixture from hydrogenation to give less than 50 p. p. m. of dissolved metal prior to recovering the long chain aliphatic alcohols therefrom by distillation.



**2,646,395**
**CHARGING CAR**
**Grady Padgett, Beaver, Pa.**
**Application April 5, 1946, Serial No. 659,814**
**11 Claims. (Cl. 202—263)**



7. A charging car for use with coking ovens carrying thereon a gas-tight enclosure having at its lower extremity a vertically movable member for coupling said enclosure around an oven door opening in gas-tight relation, means positioned within said enclosure for loosening the fastenings of an oven door, and means for swinging the loosened door into said enclosure, whereby gases rising from the oven will pass into said enclosure.

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**2,646,396**
**METHOD OF MAKING ELECTROFORMED ARTICLES**
**Reginald S. Dean, Washington, D. C.**
**No Drawing. Application March 17, 1949, Serial No. 81,999**
**4 Claims. (Cl. 204—12)**

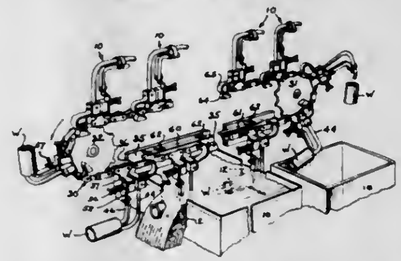
1. The cyclical process of electrolytically depositing a metal on a cathode surface selected from the group consisting of titanium and zirconium of at least 90% purity, which comprises initially preparing the cathode surface by cleaning and washing the same and passivating it by exposure to air, and thereafter at least once executing the sequence of steps consisting in depositing said metal from an aqueous solution of a salt thereof onto said cathode surface, removing the cathode and its attached deposit from the electrolyte, mechanically stripping the deposit from the cathode surface, exposing the cathode to air and replacing the cathode in said solution, and then at least once repeating said sequence of steps.

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**2,646,397**
**ELECTROPLATING ZINC USING TITANIUM CONTAINING ELECTROLYTE**
**Raymond J. Wean, Warren, Ohio, assignor to The Wean Engineering Company, Inc., Warren, Ohio, a corporation of Ohio**
**No Drawing. Application November 18, 1950, Serial No. 196,523**
**11 Claims. (Cl. 204—43)**

1. A method of electroplating a lustrous ductile coating of zinc on basis metal comprising passing an electroplating current from an anode to the basis metal as a cathode through an acid zinc electrolyte containing between about .005 and about .2 ounce of titanium per gallon of electrolyte.

**2,646,398**
**ELECTROPROCESSING APPARATUS**
**Harry P. Henderson, North Woodbury, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application October 8, 1948, Serial No. 53,466**
**7 Claims. (Cl. 204—203)**



1. In an electroprocessing apparatus, a tank for a treatment solution, a pair of weirs respectively located at the opposite ends of the tank for receiving the flow of solution from the tank, pump mechanism for receiving the solution flowing from the weirs and forcing the solution back up into the bottom of said tank to maintain the solution in the tank at a predetermined level, a work holder for removably supporting a work piece, and work holder transporting means for feeding the work piece in a substantially straight horizontally disposed path through one weir into submersion within the tank solution and out of said solution through the other weir.

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**2,646,399**
**METHOD OF INHIBITING CORROSION OF METALS**
**William B. Hughes, Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application December 28, 1950, Serial No. 203,200**
**8 Claims. (Cl. 252—8.55)**

1. The method of protecting metal equipment which is subject to the corrosive action of oil well fluids which comprises adding to such fluids the product obtained by reacting one mol of a dibasic acid having more than seven carbon atoms with two mols of a polyethylene amine, and heating the reaction mixture to drive off water overhead in an amount nearly equal to that which would be produced if all the carboxyl oxygen were converted to water, whereby to produce a bis-imidazoline, the quantity of such product being effective to substantially inhibit the corrosion of the metal equipment, and thereafter causing the well fluids to come in contact with the metal to be protected.

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**2,646,400**
**METHOD OF INHIBITING CORROSION OF METALS**
**William B. Hughes, Bartlesville, Okla., assignor to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application February 24, 1951, Serial No. 212,681**
**4 Claims. (Cl. 252—8.55)**

1. The process of reducing corrosion of metals when exposed to corrosive oil well brines which comprises incorporating in corrosive oil well fluids a small but sufficient quantity of a compound pre-

pared by reacting approximately equimolar quantities of a polyethyleneamine selected from the group consisting of triethylenetetramine and tetraethylenepentamine with an aldehyde containing more than one carbon atom, at temperatures below the boiling point of the reactants, and thereafter heating the reaction mixture at temperatures above 100° C. to drive off water formed in the reaction and thereafter causing the well fluids to flow in contact with the metal to be protected.

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2,646,401

## FIBROUS LUBRICATING GREASE

**Rosemary O'Halloran, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application April 28, 1950, Serial No. 158,933**

**6 Claims. (Cl. 252—40)**

1. A process for the manufacture of an improved lubricating composition which comprises admixing with a lubricating oil the desired amount of a soap of a non-conjungated unsaturated fatty acid having an iodine number above about 75 selected from the class consisting of lithium soaps, mixtures of lithium and strontium soaps, and mixtures of lithium and calcium soaps of unsaturated fatty acids, heating the mixture to the melting point of the soap, cooling the heated soap mixture to its transition temperature with agitation, and cooling the agitated grease mixture without agitation to a safe handling temperature.

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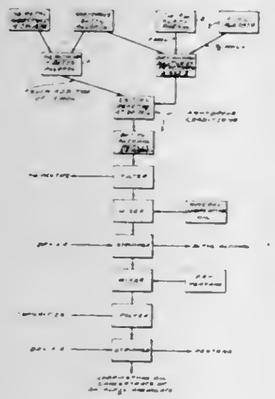
2,646,402

## MANUFACTURE OF ZINC SALTS OF HIGH MOLECULAR WEIGHT ALKYLATED HYDROXY AROMATIC COMPOUNDS

**John W. Hutcheson, Beacon, and Edwin C. Knowles, Glenham, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware**

**Application February 11, 1950, Serial No. 143,762**

**4 Claims. (Cl. 252—42.7)**



1. In the manufacture of a zinc salt of an alkyl substituted hydroxy aromatic hydrocarbon consisting of carbon, hydrogen and oxygen, wherein the alkyl substituent on the ring contains from 15 to 30 carbon atoms, the improvement to obtain a zinc salt of at least 1% by weight solubility in a residual mineral lubricating oil of the airplane engine oil type and which has effective engine cleanliness properties, which comprises mixing under substantially anhydrous conditions and in the proportion of substantially one molar amount of an alkyl substituted hydroxy aromatic hydrocarbon consisting of carbon, hydrogen and oxygen, one molar amount of an alkali metal alcoholate of an aliphatic alcohol containing 4 to 6 carbon atoms in the molecule and boiling above the boiling point of water, said alkali metal alcoholate being in solution in an excess of the said anhydrous alcohol, and slightly more than one-half molar amount of a soluble zinc salt whose acidic portion forms an alkali metal salt which is insoluble in the said anhydrous alcohol, reacting the said mixture under refluxing conditions of the said $C_4$ to $C_5$ aliphatic alcohol for a period of time in excess of 20 hours to produce an anhydrous alcohol solution of the zinc salt of the alkyl substituted hydroxy aromatic hydrocarbon in which the alkali metal salt is precipitated, filtering to remove the precipitated alkali metal salt, adding to the filtrate a dry mineral lubricating oil, and stripping to remove the alcohol under anhydrous conditions to recover an anhydrous mineral lubricating oil concentrate of the said zinc salt having the aforementioned properties.

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2,646,403

## HALOGENATED AROMATIC HYDROCARBON DIELECTRIC CONTAINING DIPHENYL TIN DIETHYLATE AS A SCAVENGER

**Russell L. Jenkins, Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**Application December 27, 1948, Serial No. 67,388**

**11 Claims. (Cl. 252—63.5)**

1. A composition of matter consisting essentially of a halogenated aromatic compound and as a scavenger therefor a sufficient amount of diphenyl tin diethylate to render the decomposition products of said halogenated compound substantially innocuous.

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2,646,404

## PROCESS FOR BREAKING PETROLEUM WATER-IN-OIL EMULSIONS

**William B. Hughes and Everett B. Fisher, Bartlesville, Okla., assignors to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey**

**No Drawing. Application December 2, 1950, Serial No. 198,915**

**6 Claims. (Cl. 252—338)**

1. The process of resolving emulsions including subjecting a petroleum water-in-oil emulsion to the action of an emulsion breaker obtained by mixing together one mol of a carbonyl selected from the group consisting of aldehydes and ketones and two mols of an amine selected from the group consisting of nontertiary alkyl amines, alkanol amines, and heterocyclic amines, heating the mixture at a temperature sufficiently high and for a period sufficiently long to cause a reaction between the carbonyl and amine whereby to obtain water formed by the reaction of the carbonyl oxygen with amine hydrogen, together with a non-oxygenated carbonyl-amine reaction product, separating water from the reaction product, and neutralizing the reaction product with propylated naphthalene sulfonic acid whereby to obtain the desired emulsion breaker, and thereafter separating the oil and water phases of the emulsion.



2,646,405

## SURFACE ACTIVE COMPOUNDS

**William B. Hughes, Bartlesville, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware**

**No Drawing. Application January 31, 1950, Serial No. 141,597**

**2 Claims. (Cl. 252—341)**

1. The process of resolving emulsions including subjecting a petroleum water-in-oil emulsion to the action of a composition consisting essentially of from about 90 to about 99 per cent of a chemical effective to break a petroleum water-in-oil emulsion and from about 1 per cent to about 10 per cent of the reaction product obtained by reacting one mol of a glyceride of a hydroxy acid having more than 11 carbon atoms with from about 2 to about 3 mols of triethanol amine at a temperature of about 180° C., and neutralizing the resulting product to a methyl orange end point with a hydroxy acid having more than 11 carbon atoms.

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2,646,406

## SURFACE ACTIVE COMPOUNDS

**William B. Hughes, Bartlesville, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware**

**No Drawing. Application February 16, 1950, Serial No. 144,595**

**7 Claims. (Cl. 252—341)**

1. The process of resolving emulsions comprising subjecting a petroleum water-in-oil emulsion to the action of a small but sufficient quantity of a heat-polymerized basic hydroxy mono amine neutralized to a methyl orange end point with a higher molecular weight aliphatic hydroxy acid.

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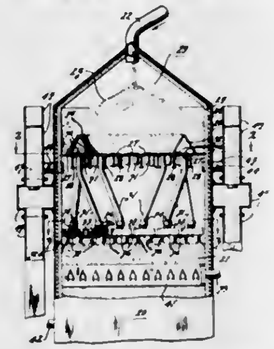
2,646,407

## ART OF HANDLING FLUENT PARTICLES

**Raymond C. Lassiat, Swarthmore, and Reuben T. Savage, Ridley Park, Pa., assignors to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware**

**Application April 30, 1948, Serial No. 24,238**

**11 Claims. (Cl. 252—411)**



1. The process for the introduction into a fluid contacting zone of fluent solid particles varying in size over a range such that flowing a mass of said particles down an inclined path results in a non-uniform distribution of particles of the same size over the cross section of said mass normal to the direction of flow which comprises supplying said particles to a relatively small laterally-fixed zone of deposit at the top of a body of said particles located a substantial distance above said contacting zone and having a free upper surface inclined downwardly from said zone of deposit at the free angle of repose of said particles, discharging said particles from the bottom of said body simultaneously as a multiplicity of solid streams of said particles whose inlets are located on a circular locus about the vertical central axis of said body, directing at least the major portion of said solid streams of discharged solid particles downwardly and laterally to a multiplicity of points uniformly distributed over the upwardly projected horizontal cross-sectional area of the contacting zone, discharging each of said solid streams at the top of a relatively small body of said particles in a zone small in relation to said contacting zone, each of said relatively small bodies being supported in lateral confinement above the contacting zone and having a free upper surface, and discharging particles from each of said relatively small bodies solely as a plurality of vertical solid streams of said particles at points uniformly distributed along a circumference whose center is on a vertical axis through the center of said relatively small body whereby approximately constant simultaneous distribution of particles of the same size is effected over said horizontal cross-sectional area of said contacting zone.

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2,646,408

## COTTONSEED MEAL GLUES OF LOW ALKALINITY

**Jett C. Arthur, Jr., and Joseph T. Hogan, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture**

**No Drawing. Application May 3, 1951, Serial No. 224,439**

**2 Claims. (Cl. 260—6)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A process for the production of a cottonseed meal glue which comprises: reacting cottonseed meal with urea by suspending an oil-free cottonseed meal in an aqueous solution containing from about 1 to 2 parts urea and from about 1 to 2 parts water per part of meal and maintaining the suspension at from about 20 to 40° C. for from about 20 to 40 minutes; and reacting the reaction product so produced with formaldehyde by mixing it with formaldehyde in the form of an aqueous solution introducing from about 0.3 to 0.5 parts formaldehyde and from about 1 to 1.5 parts water per part of said reaction product and maintaining the resultant mixture at from about 20 to 40° C. for from about 40 to 80 minutes until said mixture has a viscosity of from about 200 to 250 poises.

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2,646,409

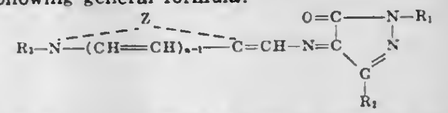
## AZAMEROCARBOCYANINE DYES

**Leslie G. S. Brooker and Frank L. White, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application July 22, 1949, Serial No. 106,314**

**12 Claims. (Cl. 260—240.1)**

1. A dye selected from those represented by the following general formula:



wherein $R_1$ represents a member selected from the group consisting of a primary alkyl group of

pared by reacting approximately equimolar quantities of a polyethyleneamine selected from the group consisting of triethylenetetramine and tetraethylenepentamine with an aldehyde containing more than one carbon atom, at temperatures below the boiling point of the reactants, and thereafter heating the reaction mixture at temperatures above 100° C. to drive off water formed in the reaction and thereafter causing the well fluids to flow in contact with the metal to be protected.

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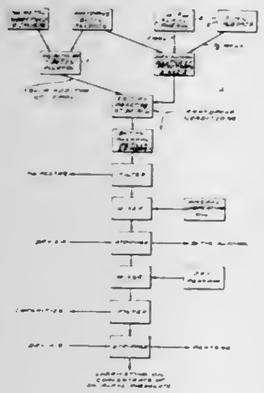
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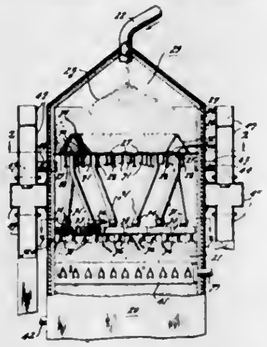
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2,646,407

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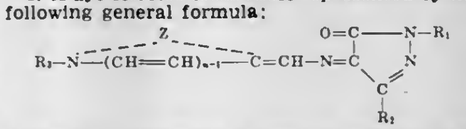
2,646,409

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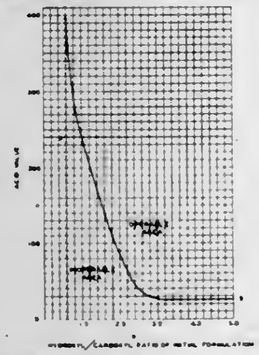
the formula $C_mH_{2m+1}$ wherein $m$ represents a positive integer from 1 to 4, an aryl group of the benzene series, an aryl group of the naphthalene series and a benzothiazolyl group, $R_2$ represents a member selected from the group consisting of a primary alkyl group of the formula $C_mH_{2m+1}$ wherein $m$ represents a positive integer from 1 to 4, an aryl group, of the benzene series and an aryl group of the naphthalene series, $n$ represents a positive integer from 1 to 2, $R_3$ represents a primary alkyl group of the formula $C_mH_{2m+1}$ wherein $m$ represents a positive integer from 1 to 4, and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the thionaphtheno-7',6',4,5-thiazole series, those of the oxazole series, those of the benzoxazole series, those of the naphthoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3-isoquinoline series, those of the 3,3-dialkylindolenine series and those of the pyridine series.

### 2,646,410
### MALEIC POLYESTER COMPOSITIONS

**Joseph Wayne Kneisley, Marshallton, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**Application May 3, 1949, Serial No. 91,062**

**10 Claims. (Cl. 260—29.2)**



1. A composition suitable for coating and impregnating applications comprising an aqueous solution of a heat-convertible reaction product of a polyhydric alcohol and an $\alpha,\beta$-unsaturated dicarboxylic acid, said polyhydric alcohol being selected from the class consisting of polyhydric alcohols of from 2 to 6 hydroxyl groups per molecule and mixtures thereof, said polyhydric alcohol containing no functional groups other than OH groups, containing no oxygen except in the form of OH groups and having an OH/C ratio of from 0.6 to 1.0, said $\alpha,\beta$-unsaturated dicarboxylic acid being selected from the class consisting of maleic acid and maleic anhydride, said reaction product being one having at least half of the COOH groups originally presented by the reactants esterified as evidenced by the acid value of the reaction product but at the same time having an acid value of at least the minimum value for the particular OH/COOH ratio employed as defined by line AB of the figure, said reaction product being soluble in water without the aid of any alkaline solubilizing agent, said composition combining the properties of dilutability with water to at least 15% concentration of the reaction product in water and the ability to provide insoluble, infusible films by heat-conversion.

### 2,646,411
### POLYVINYL ALCOHOL GELS

**Donald E. Sargent, Easton, and William F. Amon, Jr., Riegelsville, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application December 23, 1948, Serial No. 67,096**

**1 Claim. (Cl. 260—29.6)**

A thermally reversible gel having a melting point in the range of 40 to 60° C. composed of a 7 to 10% by weight dispersion of polyvinyl alcohol in water, and from about 1 to 5% based on the weight of the polyvinyl alcohol of the beta-keto amide, 4,4'-bis(beta-acetoacetamido)-N,N'-diphenylurea-3,3'-dicarboxylic acid.

### 2,646,412
### TEXTILE SIZE COMPRISING AN AQUEOUS SOLUTION OF UREA AND A POLY ALPHA-ALKYL ACRYLIC ACID OR A PARTIAL SALT THEREOF

**Walter M. Bruner and James C. Lehr, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application October 30, 1950, Serial No. 193,034**

**9 Claims. (Cl. 260—29.6)**

1. A textile size comprising an aqueous solution containing from 2 to 20% by weight of a compound of the group consisting of a poly alpha-alkyl acrylic acid, a partially neutralized poly alpha-alkyl acrylic acid and mixtures thereof and 25 to 55% by weight of urea based on the weight of the polymeric compound of the group.

### 2,646,413
### POLYAMIDE INTERPOLYMER PLASTICIZED WITH DIACETIN

**Charles W. Taylor, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

**No Drawing. Application June 24, 1946, Serial No. 678,881**

**1 Claim. (Cl. 260—31.6)**

A polyamide interpolymer resulting from the condensation of 19 percent by weight of hexamethylene diamine, 25 percent of adipic acid and 56 percent of epsilon caprolactam containing, as a plasticizer, 5 to 20 percent by weight of diacetin.

### 2,646,414
### POLYVINYL CHLORIDE POLYMER DISPERSION

**Robert H. Gillespie, Walpole, Mass., assignor to The Kendall Company, Boston, Mass., a corporation of Massachusetts**

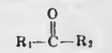
**No Drawing. Application March 13, 1952, Serial No. 276,439**

**5 Claims. (Cl. 260—32.8)**

1. A stable liquid organosol coating composition consisting essentially of a disperse solid phase comprising 1 to 50 parts by weight of at least one finely-divided high-molecular-weight emulsion-polymerized vinyl chloride polymer having an average molecular weight above 20,000 and a combined vinyl chloride content in excess of 90%



by weight of the polymer in a continuous phase of a solution of 1 part of at least one relatively low-molecular-weight vinyl chloride polymer having an average molecular weight between 5,000 and 16,000 and a combined vinyl chloride content in excess of about 60% by weight of the polymer, and a plasticizer in a volatile organic liquid consisting essentially of an alkyl ketone having the general formula



wherein $R_1$ and $R_2$ are alkyl groups selected from the class consisting of methyl, ethyl, n-propyl, isopropyl and isobutyl.

### 2,646,415
### COPOLYMERS OF POLYTHIOLS, PHENOLS, AND ALDEHYDES

**Joseph C. Patrick, St. Petersburg, Fla., and Harry R. Ferguson, Trenton, N. J., assignors, by mesne assignments, to Reconstruction Finance Corporation, Washington, D. C., a corporation of the United States**

**No Drawing. Application February 11, 1948, Serial No. 7,708**

**2 Claims. (Cl. 260—43)**

2. The resinous reaction product of phenol, formaldehyde and a polythiol having a molecular weight of 1200 to 5000 and the formula $H(SCH_2CH_2OCH_2OCH_2CH_2S)_pH$ where $p$ indicates the degree of polymerization, said polythiol being used in the proportion of about 5–70% by weight of the sum total of the phenol, formaldehyde and polythiol, and the phenol and formaldehyde being used in proportions, in relation to each other, sufficient to form a phenol-formaldehyde resin.

### 2,646,416
### INHIBITION OF GELATION IN UNSATURATED POLYESTERS WITH SALTS OF AMINES

**Earl E. Parker, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania**

**No Drawing. Application October 20, 1950, Serial No. 191,307**

**19 Claims. (Cl. 260—45.4)**

9. A polymerizable mixture comprising (A) a polymerizable polyester of a dihydric alcohol and a dicarboxylic ethenically unsaturated acid and (B) a small gelation inhibiting amount of a salt of a monoamine and an acid which is no stronger as an oxidizing agent than sulfuric acid and at least as strong in acid value as acetic acid, said salt being non-alkaline and soluble in the polyester.

### 2,646,417
### RIGID THERMOPLASTIC COMPOSITIONS COMPRISING VINYL HALIDE POLYMERS WITH INTERPOLYMERS OF STYRENE AND ACRYLONITRILE

**Garland B. Jennings, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**

**No Drawing. Application February 20, 1951, Serial No. 211,984**

**11 Claims. (Cl. 260—45.5)**

9. A thermoplastic resinous composition comprising a homogeneous mixture of a vinyl halide polymer of a monomeric material in which each constituent contains a single olefinic double bond and in which the predominant monomer is a vinyl halide, with a hard tough interpolymer of a monoolefinic monomeric mixture comprising 50 to 90% by weight of a monomer selected from the class consisting of styrene, chloro-, alkyl- and alkoxy-substituted styrenes and 10 to 50% by weight of an acrylic nitrile selected from the class consisting of acrylonitrile, methacrylonitrile, ethacrylonitrile and chloroacrylonitrile copolymerizable with styrene, said hard tough interpolymer containing not to exceed 20% by weight of other polymerized monoolefinic monomers, said composition containing from 1 to 40% by weight of hard tough interpolymer based on the weight of vinyl halide polymer.

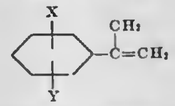
### 2,646,418
### PROCESS FOR POLYMERIZING MONOVINYL AROMATIC COMPOUNDS WITH RUBBER

**John L. Lang, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 25, 1951, Serial No. 228,355**

**7 Claims. (Cl. 260—45.5)**

1. The method of making a resinous composition which comprises, polymerizing a solution of from 85 to 98 per cent by weight of an organic liquid composed of at least one monomeric polymerizable monoalkenyl aromatic compound of the benzene series having an alkenyl radical selected from the group consisting of the vinyl and isopropenyl radicals as the sole polymerizable group directly attached to a carbon atom of the aromatic nucleus, wherein the aromatic polymerizable portion of said liquid consists of at least 75 per cent by weight of a monovinyl aromatic compound selected from the group consisting of the monovinyl aromatic hydrocarbons of the benzene series and nuclear halogenated derivatives thereof, and from 15 to 2 per cent of an unsaturated rubber selected from the group consisting of natural rubber, rubbery copolymers of from 20 to 60 per cent by weight of styrene and from 80 to 40 per cent of butadiene, rubbery copolymers of from 18 to 35 per cent by weight of acrylonitrile and from 82 to 65 per cent of butadiene, and homopolymers of butadiene, in the presence of from 0.005 to 0.75 per cent by weight, based on the weight of the solution, of a polymerization modifying agent which is an unsaturated dimer of a monomeric alpha-alkyl styrene having the general formula:



wherein X and Y each represents a member of the group consisting of hydrogen, halogens, and lower alkyl radicals containing not more than three carbon atoms by heating the solution together with said agent at a polymerization temperature between 65° and 150° C.

### 2,646,419
### AMINOALKANE SULFURIC ACID MODIFIED UREA-FORMALDEHYDE RESINS AND PROCESS OF PREPARING SAME

**Tzeng Jiueq Suen, Stamford, Conn., and Arthur M. Schiller, Astoria, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application November 2, 1949, Serial No. 125,152**

**12 Claims. (Cl. 260—70)**

1. A process for preparing a water soluble urea-formaldehyde resin comprising reacting at ele-

vated temperatures under alkaline conditions urea, formaldehyde and a compound having the general formula: $NH_2(CH_2)nOSO_3X$, wherein $n$ is a whole number between 1 and 6 inclusive, and X is a member of the group consisting of H, Li, K, Na, $NH_4$, and hydrogen in combination with a water soluble tertiary amine and wherein the mol ratios are 1:1.5:0.015 to 1:3:0.25, respectively, and then reacting the mixture under acid conditions until a viscosity of 45% solids solution in water is at least B on the Gardner-Holdt scale.

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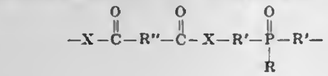
**2,646,420**

## SYNTHETIC LINEAR CONDENSATION POLYMERS CONTAINING PHOSPHORUS

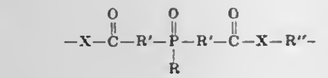
**Paul W. Morgan, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application July 22, 1949, Serial No. 106,331**
**12 Claims. (Cl. 260—75)**

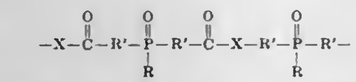
1. A synthetic linear condensation polymer containing phosphorus atoms as a part of the polymer chain, and having a recurring structural unit selected from the group consisting of



and



and



wherein R may be any monovalent hydrocarbon radical, R′ is a divalent hydrocarbon radical from the group consisting of divalent aromatic and cycloaliphatic hydrocarbon radicals, R′′ may be any divalent hydrocarbon radical, and X is selected from the group consisting of nitrogen and oxygen.

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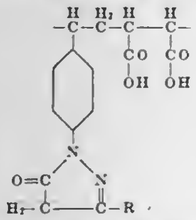
**2,646,421**

## POLYMERIC PYRAZOLONE COUPLERS

**Charles F. H. Allen and Thomas T. M. Laakso, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application March 14, 1952, Serial No. 276,677**
**9 Claims. (Cl. 260—78.5)**

1. A polymeric pyrazolone coupler having the recurring structural formula



R being selected from the group consisting of methyl, carboxy, p-methoxyphenyl, amino and benzamido.

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**2,646,422**

## CURED CHLOROSULFONATED INTERPOLYMERS OF THE DIOLEFINS

**Daniel E. Strain, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application March 16, 1951, Serial No. 216,105**
**10 Claims. (Cl. 260—79.3)**

1. A synthetic elastomer comprising a hydrogenated and chlorosulfonated polymer of the group consisting of conjugated diolefin polymers and halogenated products thereof, the order of processes used in producing the elastomer being hydrogenation followed by chlorosulfonation, the chlorosulfonation reaction being conducted until the product contains on a weight basis 20 to 45% chlorine and 0.25 to 3.0% sulfur.

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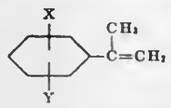
**2,646,423**

## POLYMERS OF ALKENYL AROMATIC COMPOUNDS AND ACRYLONITRILE AND METHOD OF MAKING THE SAME

**Henry W. Wehr and Floyd B. Nagle, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 25, 1951, Serial No. 228,352**
**7 Claims. (Cl. 260—80.5)**

1. In a process for polymerizing a mixture of at least one monoalkenyl aromatic hydrocarbon having a single olefinic radical selected from the group consisting of the vinyl and isopropenyl radicals directly attached to a carbon atom of the aromatic nucleus, and acrylonitrile wherein the polymerizable portion is from 20 to 37.5 per cent by weight acrylonitrile, the improvement which consists in carrying out the polymerization in the presence of from 0.01 to 2 per cent by weight based on the polymerizable materials, of an unsaturated dimer of a monomeric alpha-alkyl styrene having the formula:



wherein X and Y each represents a member of the group consisting of hydrogen, halogens, and lower alkyl radicals containing not more than three carbon atoms.

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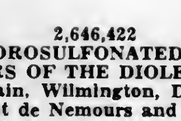
**2,646,424**

## ACRYLONITRILE COMPOSITIONS AND PROCESS FOR MAKING THE SAME

**Henry W. Wehr and Floyd B. Nagle, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 25, 1951, Serial No. 228,353**
**7 Claims. (Cl. 260—85.5)**

1. In a process for making a polymer of acrylnitrile by polymerizing an acrylonitrile composition wherein the polymizerable portion is composed of at least one monoethylenically unsaturated organic compound and is at least 70 per cent by weight acrylonitrile, the improvement which consists in carrying out the polymerization in the presence of from 0.1 to 2 per cent by weight of the polymerizable materials, of an unsaturated dimer of a monomeric alpha-alkyl styrene having the formula:



wherein X and Y each represents a member of the group consisting of hydrogen, halogens and lower alkyl radicals containing not more than three carbon atoms.

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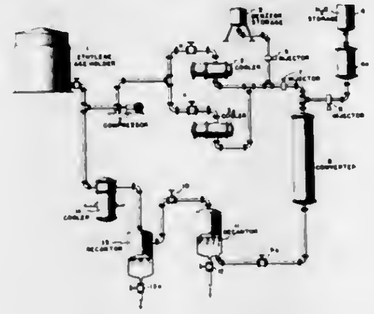


**2,646,425**

## PREPARATION OF ETHYLENE POLYMERS

**Arthur W. Barry, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**Application March 23, 1951, Serial No. 217,122**
**10 Claims. (Cl. 260—94.9)**



1. In an improved process for the preparation of high molecular weight ethylene polymers under pressures between 50 and 3000 atmospheres and temperatures up to 400° C. in the presence of a free radical producing catalyst and water, the steps which comprise carrying out the separation of the water from the unreacted ethylene and the polymer in two stages, separating the water from the unreacted ethylene and polymer in the first stage, operating the first stage at substantially the pressure and temperature of the reaction, passing the mixture of unreacted ethylene and polymer from the first stage to a second stage and therein separating the polymer from the ethylene under a pressure and temperature sufficient to maintain the polymer in a molten state and removing from the second stage a relatively high density ethylene polymer substantially ethylene- and water-free.

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**2,646,426**

## PREPARATION OF PHOTOGRAPHIC EMULSIONS

**Rudolph E. Damschroder, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application December 31, 1948, Serial No. 68,743**
**3 Claims. (Cl. 95—7)**

1. A method of making a photographic silver halide emulsion which comprises reacting in an excess of aqueous ammoniacal solution substantially free of nitrate ion in the presence of a peptizing hydrophilic colloid for silver halide, substantially equivalent molar quantities of a compound selected from the group consisting of silver oxide and silver carbonate with at least one of the amine halides having the formula



wherein X represents a halogen atom, R, $R_1$ and $R_2$ each represents a member selected from the group consisting of a hydrogen atom and an alkyl group having from 1 to 3 carbon atoms, the sum total of the carbon atoms in R, $R_1$ and $R_2$ being from 0 to 3, to yield a silver halide emulsion containing silver halide, a volatile nitrogen compound and substantially no other non-volatile product, removing said volatile nitrogen compound from said emulsion only by passing the emulsion as a thin film of liquid through a chamber maintained at a pressure of from about 20–90 mm. of mercury and a temperature of from about 40–80° C. until the molecular equivalent amount of the nitrogen compound remaining in the emulsion is equal to less than about 22 grams of ammonia per 2.95 mols of said silver compound selected from the group consisting of silver oxide and silver carbonate used in making the emulsion and converted to silver halide, and digesting the emulsion, the removal of nitrogen compound and digestion being effected within less than two hours.

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**2,646,427**

## STREPTOMYCIN 2-HYDROXY-4-AMINO BENZOATE

**Ray A. Patelski, Manhasset, N. Y., and Peter P. Regna, West New York, N. J., assignors to Chas. Pfizer & Co., Inc., a corporation of Delaware**

**No Drawing. Application May 14, 1949, Serial No. 93,424**
**2 Claims. (Cl. 260—210)**

2. Streptomycin tri-(p-aminosalicylate).

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**2,646,428**

## RUTIN DERIVATIVES AND PRODUCTION THEREOF

**Pierre Chabrier, Paris, Pierre R. L. Giudicelli, Fontenay-sous-Bois, and Charles H. Génot, Paris, France, assignors to Les Laboratoires Dausse (Societe Anonyme), Paris, France, a company of France**

**No Drawing. Application September 11, 1950, Serial No. 184,348. In France September 20, 1949**
**4 Claims. (Cl. 260—210)**

1. A mono β-morpholinyl ethyl ether of rutin.

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**2,646,429**

## MANUFACTURE OF CELLULOSE ACETATE WITH SULFOACETIC PRETREATMENT

**Carl J. Malm and Loring W. Blanchard, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application June 8, 1951, Serial No. 230,698**
**11 Claims. (Cl. 260—229)**

1. A method of preparing cellulose esters of fatty acids of 2–4 carbon atoms which comprises activating the cellulose with acetic acid whereby the same is swollen and then treating the cellulose with a mixture of a lower fatty acid and a sulfo-lower fatty acid at 70°–120° F., cooling to 60°–65° F., adding acetic anhydride to the mass, whereby the water therein is destroyed, cooling the mass to 10°–60° F., and adding sulfuric acid esterification catalyst and allowing

the reaction so induced to go to completion, the maximum temperature during the reaction not exceeding 100° F.

2. A method of preparing cellulose esters of fatty acids of 2–4 carbon atoms which comprises soaking cellulose in fibrous form with water and then replacing the water therein with acetic acid, treating the cellulose with a mixture of acetic acid and a sulfo-lower fatty acid at 70°–120° F., cooling the mass to 60°–65° F., adding acetic anhydride to the mass, whereby the water therein is destroyed, cooling the mass to 10°–60° F., adding sulfuric acid esterification catalyst and allowing the reaction so induced to go to completion at a temperature not exceeding 100° F.

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**2,646,430**

## QUINOLINE DYES OF THE POLYMETHINE SERIES AND PROCESS OF PREPARATION

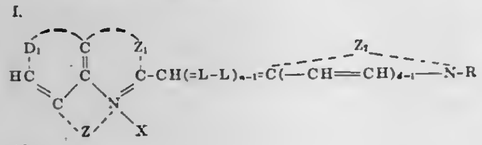
**Leslie G. S. Brooker and Donald W. Heseltine, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application April 8, 1950, Serial No. 154,883**

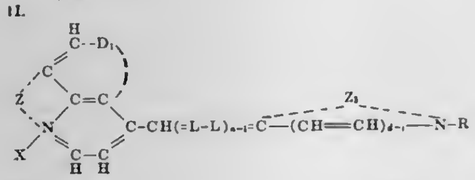
**11 Claims. (Cl. 260—240.6)**

1. A polymethine dye selected from the group consisting of those represented by the following four general formulas:

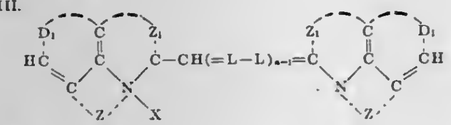
I.



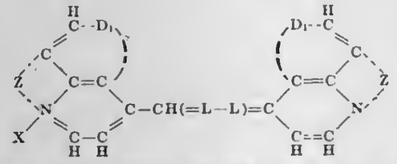
II.



III.



IV.



wherein R represents an alkyl group, Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the pyrrole series, those of the pyridine series, and those of the thiazine series, $Z_1$ represents the non-metallic atoms necessary to complete a heterocyclic nucleus of the pyridine series, $Z_2$ represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of those of the thiazole series, those of the benzothiazole series, those of the naphthothiazole series, those of the oxazole series, those of the benzoxazole series, those of the naphthoxazole series, those of the selenazole series, those of the benzoselenazole series, those of the naphthoselenazole series, those of the thiazoline series, those of the 2-quinoline series, those of the 4-quinoline series, those of the 1-isoquinoline series, those of the 3-isoquinoline series, and those of the 3,3-dialkylindolenine series, $D_1$ represents the non-metallic atoms necessary to complete a mononuclear aryl group of the benzene series, L represents a methine group, $n$ and $d$ each represents a positive integer of from 1 to 2, and X represents an acid radical.

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**2,646,431**

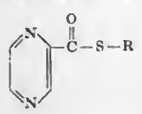
## PYRAZINE DERIVATIVES AND METHODS OF PREPARING THE SAME

**Harry P. Dalalian, Rutherford, N. J., and Samuel Kushner, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application September 26, 1951, Serial No. 248,454**

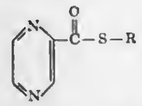
**14 Claims. (Cl. 260—250)**

1. Compounds having the general formula:



in which R is a member of the group consisting of a lower alkyl, phenyl, monocarboxyphenyl, monohalophenyl, benzyl and lower carboxyalkyl radicals.

8. A method of preparing compounds having the general formula:



in which R is a member of the group consisting of lower alkyl, phenyl, monocarboxyphenyl, monohalophenyl, benzyl and lower carboxyalkyl radicals, which comprises reacting pyrazinoyl chloride with a mercaptan having the formula:

X—S—R

wherein X is a member of the group consisting of hydrogen, alkali metal and lead radicals and R is as defined above and recovering said compound therefrom.

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**2,646,432**

## METHOD OF PREPARING 2,6-DIKETOPURINES

**August H. Homeyer, Webster Groves, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri**

**No Drawing. Application January 13, 1947, Serial No. 721,883**

**6 Claims. (Cl. 260—256)**

6. The method which comprises reacting a 4-amino-5-nitrosouracil with hydrogen at a temperature not substantially in excess of 85° C. and in the presence of a catalyst selected from the group consisting of nickel, palladium and platinum to form a 4,5-diaminouracil, formylating the product by reaction with formic acid, and cyclizing the formylated compound with an alkali to form a purine, said formylation and cyclizing being carried out without isolation of intermediates.



**2,646,433**

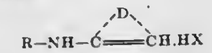
## SYNTHESIS OF QUINALDINIUM SALTS

**Donald W. Heseltine, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Original application April 8, 1950, Serial No. 154,881. Divided and this application May 19, 1951, Serial No. 227,273**

**8 Claims. (Cl. 260—286)**

1. A process for preparing quinaldinium quaternary salts comprising condensing a compound selected from those represented by the following general formula:



wherein R represents a member selected from the group consisting of an alkyl group and an aryl group, D represents the non-metallic atoms necessary to complete an aromatic nucleus, and X represents an acid radical, with a compound selected from the group consisting of acetaldehyde, paraldehyde, aldol, and crotonaldehyde, in the presence of an oxidizing agent.

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**2,646,434**

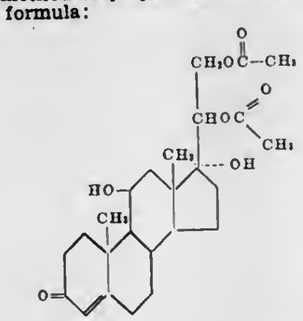
## METHOD OF PREPARING $\Delta^4$-PREGNENES

**Seymour Bernstein, Pearl River, and Milton D. Heller, Monsey, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application April 3, 1952, Serial No. 280,382**

**4 Claims. (Cl. 260—397.4)**

1. A method of preparing the compound having the formula:



which comprises reacting $\Delta^5$-pregnene-17α,21-diol-3,11,20-trione-3-ethylene ketal-21-acetate in solution with lithium aluminum hydride in a solvent and subsequently with acetic anhydride in a solvent and recovering said compound therefrom.

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**2,646,435**

## MAKING WHITE SOAP

**Frank L. Jackson, Cincinnati, and John C. Bayer, Sharonville, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio**

**No Drawing. Application November 16, 1949, Serial No. 127,756**

**13 Claims. (Cl. 260—409)**

1. The process of treating hydrogenated vegetable fatty materials containing substantially colorless color precursors, which comprises the steps of treating said materials with about 0.1% of a compound of the group consisting of chlorites of alkali metals and alkaline earth metals in water solution in the presence of about 0.025% of sulfuric acid at a temperature in the range of 100 to 140° C. thereby converting the color precursors into colored materials, and thereafter admixing with the treated fatty matter an alkaline material in amount at least sufficient to neutralize the remaining acid, and bleaching the fatty matter with from 0.5 to 6% of a bleaching earth at a temperature in the range of 100 to 140° C., and filtering the oil.

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**2,646,436**

## HARDENED MONTAN WAX DERIVATIVES

**Frederick W. Breuer, Lititz, and David T. Zentmyer, Lancaster Township, Lancaster County, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**

**No Drawing. Application February 10, 1951, Serial No. 210,437**

**2 Claims. (Cl. 260—410.6)**

1. A process of producing a montan wax derivative of increased hardness comprising heating said wax in the presence of dihydric alcohol at a temperature between about 140° C. and about 190° C. and in an inert atmosphere to esterify the acid content of said wax, including the dicarboxylic acid content thereof, and thereafter heating the resulting esterification product at a temperature of about 210° C. to about 220° C. at a subatmospheric pressure of less than 5 mms. of mercury until dihydric alcohol ceases to be split off.

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**2,646,437**

## PROCESS FOR PREPARING ISOPROPENYL ESTERS

**Joseph B. Dickey and Theodore E. Stanin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application March 23, 1950, Serial No. 151,544**

**6 Claims. (Cl. 260—410.9)**

5. A process for preparing isopropenyl esters from fatty monocarboxylic acids containing from 3 to 18 carbon atoms comprising reacting isopropenyl acetate with the said carboxylic acid, at a temperature of from 20° to 100° C., in the presence of a mercury compound selected from the group consisting of mercuric oxide and a mercuric salt of a saturated fatty acid and in the presence of a mineral acid selected from the group consisting of sulfuric acid and phosphoric acid, and separating the isopropenyl ester which forms.

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**2,646,438**

## PROCESS OF PRODUCING REFINED FATS AND OILS

**Edward M. Frankel, Nyack, N. Y.**

**Application February 24, 1949, Serial No. 78,081**

**4 Claims. (Cl. 260—426)**

1. A process of producing a purified oil from miscella, which comprises: treating said miscella with sodium sulfite whereby a sludge is formed; separating the sludge formed upon treatment with the sodium sulfite; treating the miscella, after removal of the sludge, with a dilute solution of caustic alkali stripping the solution from the miscella after treatment with the dilute solution of caustic alkali, to obtain the oil; and effecting deodorization of the oil while removing the last traces of solvent.

2,646,439

## PROCESS OF LIQUID-LIQUID FRACTIONATION OF GLYCERIDE OILS

Stewart W. Gloyer, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Co., Allegheny County, Pa., a corporation of Pennsylvania

Application September 24, 1948, Serial No. 51,026
14 Claims. (Cl. 260—428.5)

1. A process of treating a glyceride oil comprising relatively highly saturated and relatively unsaturated components to separate it into fractions, one of which is enriched in the first mentioned component and the other of which is enriched in the second, the steps which comprise rotating a body of oil and a polar solvent about an axis to provide a zone of centrifugal force while feeding additional oil continuously into the body substantially at the perimeter of the zone and continuously feeding polar solvent having a higher affinity for the unsaturated glycerides than for the saturated glycerides, but being only partially miscible with the oil, substantially at the axis of the zone, drawing off an extract solution of oil and polar solvent substantially at the perimeter of the zone, passing the extract solution into a second rotating extraction zone at substantially the axis thereof, passing naphtha into the same zone substantially at the perimeter thereof, returning the oil taken out of the polar solvent in the second zone to the first zone with the oil feed, continuously drawing off the solution of polar solvent and more highly unsaturated oil substantially at the perimeter of the second zone, passing it to a third zone of centrifugal force near the outer perimeter thereof and feeding in naphtha near the axis of the third zone, the naphtha fed to the third zone being in a proportion of 1 to 5 volumes per volume of original oil, the temperature being in a range of 10 to 60° below that in the first zone, whereby at least 97% of the oil in solution in the polar solvent is extracted out in the naphtha, drawing off the naphtha solution substantially at the axis of the third zone and drawing off the polar solvent and a by-product of fatty acids and unsaponifiable matter at the outer perimeter of the third zone and evaporating the naphtha from the naphtha solution and returning a portion of the oil recovered to the second zone with the naphtha feed.

2,646,440

## ORGANIC ARSENO POLYSULFIDES

Roland M. Kary, Metuchen, N. J., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 20, 1951, Serial No. 257,427
21 Claims. (Cl. 260—444)

1. Compounds of the formula



in which As represents arsenic, S represents sulphur and R and $R_1$ are organic substituents selected from the group consisting of neutral and acidic univalent saturated aliphatic radicals with the free valence belonging to a carbon atom having at least one hydrogen atom attached thereto, neutral and acidic univalent aromatic radicals with the free valence belonging to a benzene ring, and neutral and acidic univalent aromatic radicals with the free valence belonging to a carbon atom outside the ring structure and which carbon has at least one hydrogen atom attached thereto.

2,646,441

## PROCESS FOR DEHALOGENATING HALOGENOSILANES

John Joseph Duane, Buffalo, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application December 17, 1949, Serial No. 133,689
8 Claims. (Cl. 260—448.2)

3. Process of converting an organo halogenosilane taken from the group consisting of hydrocarbon and hydrocarbonoxy halogenosilanes to an organosilicon compound substantially free from halogen which comprises reacting the halogenosilane with a metal salt of the group consisting of sodium bicarbonate, sodium bisulphite, potassium bicarbonate, and potassium bisulphite under substantially anhydrous conditions.

2,646,442

## HYDROCARBON SYNTHESIS

Marcus T. Kendall, Long Beach, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application June 4, 1948, Serial No. 31,225
12 Claims. (Cl. 260—449.6)

1. In the process of catalytically converting a synthesis gas comprising essentially hydrogen and carbon monoxide into desired products of the class consisting of hydrocarbons, oxygenated hydrocarbons and mixtures thereof, the improvement which comprises substantially increasing the yield of desired, normally liquid products by passing such synthesis gas through a reaction zone in contact with a powdered, solid particle, iron-containing synthesis catalyst effective for the production of desired liquid products, the major portion of which comprises particles larger than 80 microns, continuing passage of said synthesis gas in contact with the catalyst at an elevated conditioning temperature above 700° F. and not above about 800° F., at which the catalyst particles experience a selective decrease in density and alteration of the particle size distribution toward the range of from 10 to 80 microns and an increase in surface adsorptivity, continuing passage of the said synthesis gas at said temperature of disintegration for a substantial period of time until the average density of said catalyst falls in the range of from about 2.5 to about 4.5 density, and a particle size distribution has been established such that about 60 to 85 per cent of the particles falls within the size range of from about 10 to 80 microns, and the surface adsorptivity increases into a range of 20 to 45 milliliters of ammonia per gram of catalyst said conditions being accompanied by a substantially increased yield of said desired products of reaction, thereafter substantially lowering the reaction temperature at a rate at which the yield of desired liquid products is substantially unaffected to a continuous operating temperature in the range of about 640–690° F., and thereafter continually recovering liquid products of reaction from the effluent reaction products.

2,646,443

## METHOD OF PRODUCING 1,4-DICYANO-2-BUTENE

Gerald Clayton Bassler, Pittsburgh, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application May 15, 1951, Serial No. 226,535
1 Claim. (Cl. 260—465.8)

A method of producing 1,4-dicyano-2-butene in improved yields that comprises reacting 2-butene-1,4-diol and hydrogen cyanide in the presence of cuprous bromide.



2,646,444

## PRODUCTION OF ACRYLONITRILE BY CATALYTIC DEHYDRATION OF ETHYLENE CYANOHYDRIN

Erwin L. Carpenter, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 7, 1951, Serial No. 235,668
12 Claims. (Cl. 260—465.9)

1. A method of producing acrylonitrile which includes feeding a liquid ethylene cyanohydrin to a dehydrating zone heated to a temperature within the range from about 170° C. to about 210° C., said zone containing sodium formate as an ethylene cyanohydrin dehydration catalyst and ethylene glycol, removing acrylonitrile and water from said zone, and recovering the acrylonitrile.

2,646,445

## RESOLUTION PROCESS AND COMPOUNDS PRODUCED THEREIN

Robert L. Clark, Woodbridge, and William H. Jones, Elizabeth, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 1, 1950, Serial No. 198,758
11 Claims. (Cl. 260—472)

1. The process that comprises hydrogenating the product obtained by reacting together an organic solvent solution of 1-amino-2-propanol and benzaldehyde to form 1-benzylamino-2-propanol, reacting the same with a hydrohalic acid selected from the class consisting of hydrochloric acid and hydrobromic acid, acylating the hydrohalide thus obtained by reacting with the corresponding p-nitrobenzoyl-halide to form the 2-(1 - benzylamino-propyl) - p - nitrobenzoate hydrohalide, reacting said hydrohalide with alkali and dissolving the free base thus obtained in ether, adding said ether solution under anhydrous conditions to an ethanol-ether solution of d-tartaric acid, and extracting the diastereoisomeric mixture of 2-(1-benzylaminopropyl)-p-nitrobenzoate d-acid tartrates thus obtained with acetone to separate an acetone solution of the L(+) isomer from residual D(—) isomer.

5. A compound selected from the group consisting of 2-(1-benzylaminopropyl)-p-nitrobenzoate and acid addition salts thereof.

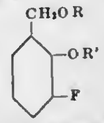
2,646,446

## PRODUCTION OF SALIGENIN DERIVATIVES

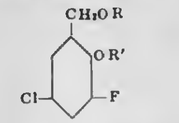
Edgar C. Britton and James D. Head, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 23, 1949, Serial No. 134,835
5 Claims. (Cl. 260—479)

1. A method of producing a compound having the general formula



in which each of the radicals R and R' is of the class consisting of hydrogen and acetyl which method comprises dechlorinating a saligenin derivative having the general formula



in which R and R' have the meanings hereinbefore set forth, by the action of one mol of gaseous hydrogen per mol of the saligenin derivative at a pressure of from about 10 to about 40 pounds per square inch gauge, and in the presence of a palladium catalyst and a hydrogen ion acceptor.

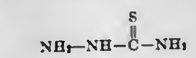
2,646,447

## PREPARATION OF THIOSEMICARBAZIDE

John Christie Paterson, Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 8, 1951, Serial No. 214,631
1 Claim. (Cl. 260—552)

A process for obtaining thiosemicarbazide of the formula



which comprises rearranging the thiocyanic acid salt of hydrazine in the substantial absence of any solvent by heating to a temperature between 90° C. and 105° C. at reduced pressure.

2,646,448

## PROCESS FOR PREPARING OXAMIDE

Jack Daniel Joffe, Hopewell, and Leland James Beckham, Bermuda District, Va., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application February 21, 1950, Serial No. 145,596
13 Claims. (Cl. 260—561)

1. In a process for preparing oxamide by the pyrolysis of ammonium oxalate, the step which comprises heating solid ammonium oxalate in the presence of a catalytic quantity of an inorganic acidic phosphorus-containing compound selected from the group consisting of phosphorus acids, anhydrides of phosphorus acids and alkali metal and ammonium acid salts of phosphorus acids at a temperature between about 155° C. and about 220° C.

2,646,449

## FLUOROCARBON COMPOUNDS AND PREPARATION OF SAME

James Elliot Carnahan, Wilmington Manor, New Castle, Del., and Herman Julian Sampson, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 29, 1950, Serial No. 171,244
3 Claims. (Cl. 260—583)

1. A fluorocarbon compound from the group consisting of the primary polyfluoroalkyl amines having the formula $H(CF_2)_nCH_2NH_2$ wherein $n$ is an even integer from 6 to 12, inclusive, and the water-soluble acid salts thereof.

2,646,450

## PROCESS FOR MAKING UNSATURATED DIMERS OF ALPHA-ALKYL STYRENES.

William S. Thurber, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application May 25, 1951, Serial No. 228,360
14 Claims. (Cl. 260—669)

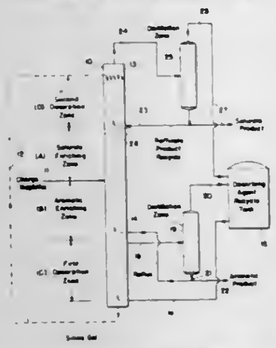
1. A process, for making the unsaturated dimers of an alpha-alkyl styrene, which comprises reacting together two molecules of at least one alpha-alkyl styrene at a temperature between 0° and 130° C. in the presence of from 0.05 to 5 per cent by weight of a catalyst mixture containing as the essential ingredients from 80 to 98 per cent by weight of a phosphorus oxyhalide selected from the group consisting of phosphorus oxychloride and phosphorus oxybromide, and from 20 to 2 per cent of a strong mineral acid and separating the unsaturated dimers from the reaction mixture.

2,646,451

## CONTINUOUS ADSORPTION PROCESS

Richard H. Rommel, Wilmington, Del., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application November 1, 1949, Serial No. 124,828
14 Claims. (Cl. 260—674)



1. Continuous process for separating a liquid mixture of organic compounds of different adsorbabilities by means of a selective adsorbent which comprises feeding particulate adsorbent to an adsorption zone, feeding a liquid stream of the charge mixture into the adsorption zone and flowing it countercurrent to the adsorbent to selectively remove the more adsorbable charge component and yield a raffinate stream rich in the less adsorbable charge component, introducing the used adsorbent, carrying the more adsorbable charge component as adsorbate, into a first desorption zone and therein passing it countercurrent to a liquid desorbing agent to displace said adsorbate from the adsorbent, said desorbing agent boiling outside of the boiling range of the charge mixture and being more highly adsorbable than the less adsorbable charge component, then passing the adsorbent through a second desorption zone countercurrent to a liquid stream comprising raffinate product to displace desorbing agent from the adsorbent, withdrawing from said second desorption zone a mixture of desorbing agent and the less adsorbable charge component, passing said mixture to a distillation zone and therein distilling it to separate desorbing agent and yield raffinate product essentially free of desorbing agent, and maintaining in said second desorption zone a flow ratio of raffinate product to adsorbent higher than such ratio in the adsorption zone by recycling liquid raffinate product from said distillation zone to said second adsorption zone.

2,646,452

## ALKYLATION BY MODIFIED ALUMINUM HALIDE CATALYST

Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 20, 1949, Serial No. 94,523
2 Claims. (Cl. 260—683.4)

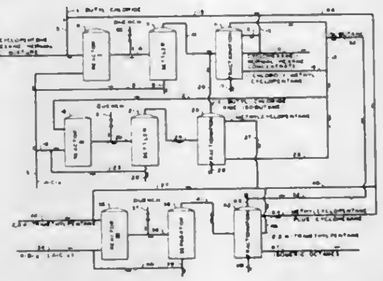
1. A conversion process which comprises alkylating a hydrocarbon in the presence of catalyst comprising the product resulting from the reaction of one mole of a phosphorus oxyhalide with from one to two moles of an anhydrous aluminum halide selected from the group consisting of aluminum chloride and aluminum bromide at a temperature of from about —30° to about 150° C.

2,646,453

## CONCENTRATION AND USE OF METHYLCYCLOPENTANE IN 2,2,4-TRIMETHYLPENTANE ISOMERIZATION

Francis E. Condon, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 30, 1949, Serial No. 102,394
3 Claims. (Cl. 260—683.5)



1. A process which comprises subjecting a hydrocarbon mixture partially derived from an extraneous source and partially derived from a recycle stream hereinafter described, said mixture comprising methylcyclopentane and cyclohexane, to reaction with a halide selected from the group consisting of secondary and tertiary alkyl and cycloalkyl halides under conditions effecting halogen-hydrogen exchange reaction to form 1-halo-1-methylcyclopentane, separating from the reaction mixture by fractional distillation 1-halo-1-methylcyclopentane so produced, reacting same with a low-boiling saturated hydrocarbon having a tertiary carbon atom and at least partially derived as hereinafter described under conditions effecting halogen-hydrogen exchange reaction re-forming methylcyclopentane, subjecting 2,2,4-trimethylpentane in admixture with thus-formed methylcyclopentane to isomerization in the presence of an aluminum halide isomerization catalyst selected from the group consisting of aluminum chloride and aluminum bromide under conditions forming isomeric octanes and low-boiling saturated paraffin hydrocarbon having a tertiary carbon atom, said methylcyclopentane inhibiting side reactions during said isomerization, recovering isomeric octanes so produced as a product of the process, passing at least a portion of said low-boiling saturated paraffin hydrocarbon having a tertiary carbon atom to halogen-hydrogen exchange reaction with said 1-halo-1-methylcyclopentane as hereinbefore described, recovering from effluents of said isomerization a fraction comprising unreacted methylcyclopentane containing in admixture therewith cyclohexane formed by isomerization of methylcyclopentane, recycling a portion of said fraction to said isomerization, and passing a portion of said fraction as part of said hydrocarbon mixture to halogen-hydrogen exchange reaction with said halide to separate from cyclohexane the methylcyclopentane content thereof as hereinbefore described.



# ELECTRICAL

2,646,454

## PROCESS FOR THE MANUFACTURE OF BATTERY ELECTRODES AND THE RESULTING ELECTRODES

Victor Herold, Paris, France, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France, a French body corporate

No Drawing. Application August 31, 1950, Serial No. 182,635. In France February 28, 1950
9 Claims. (Cl. 136—24)

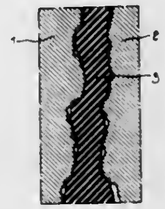
1. An electrode for an electric battery having alkaline electrolyte comprising an electrolytically inactive electro-conductive support impregnated with precipitates consisting of ternary mixtures of hydroxides of iron, of cadmium and of a metal selected from the group consisting of mercury and titanium.

2,646,455

## ELECTROLYTIC CELL AND BATTERY

Robert A. A. Jeannin, Paris, France, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France, a French body corporate

Application October 23, 1951, Serial No. 252,645
In France December 9, 1950
16 Claims. (Cl. 136—24)



14. A cell operating without substantial gas evolution, comprising an electrolyte, at least one positive electrode and one negative electrode located opposite one another, each electrode comprising consolidated finely-divided particles of a metal substantially unaffected by the electrolyte, a thin, distortable diaphragm of non-conducting matter substantially unaffected by the electrolyte and contacting and separating the adjacent faces of the opposite electrodes, said diaphragm being closely compressed between the adjacent faces of the electrodes, and each face of the diaphragm being substantially in the configuration of a compression-matrix of the face of the adjacent electrode, said electrodes and said diaphragms being permeated by said electrolyte.

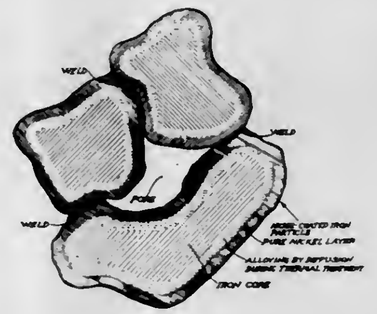


2,646,458

## FABRICATION OF STORAGE BATTERY PLATES

Pierre A. C. Jacquier, Paris, France, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France, a French body corporate

Application July 10, 1951, Serial No. 236,069
9 Claims. (Cl. 136—28)




1. The method of making highly porous metallic plates for use as electrodes for alkaline storage batteries comprising reducing iron oxides to produce non-pyrophoric, finely-divided porous iron powder, immersing determined quantities of said powder for a determined time in a solution of nickel salts for chemical exchange between the iron of the iron powder and the nickel of the solution so that the metallic nickel of the solution replaces iron forming nickel-coated iron particles, separating the nickel-coated iron particles from the solution, molding the latter particles with a minimum of compacting into the configuration of a storage battery plate and thereafter sintering the molded particles to form a porous storage battery plate.

2,646,457

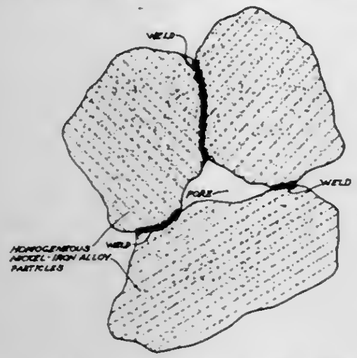
## ELECTRODE FOR ALKALINE BATTERIES

Pierre A. C. Jacquier, Paris, France, assignor to Societe des Accumulateurs Fixes & de Traction, Romainville, France, a French body corporate

Application July 10, 1951, Serial No. 236,070
In France June 30, 1950
12 Claims. (Cl. 136—28)

1. A process for the production of a porous carrier body for an electrode for an alkaline storage battery, comprising the steps of molding without compression into the form of an electrode and then sintering without compression at a temperature between about 800° C. and about 1050° C. homogeneous powdery metallic

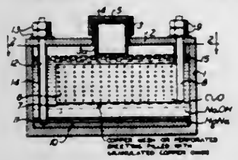
products whose physical texture and composition is such that after sintering the metal con-




stituting the porous body is a homogeneous alloy of iron-nickel containing at least 20% nickel.

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**2,646,458**
**GALVANIC CELL**
**Heinz Paul Hermann Walz, Heidelberg, Germany**
**Application August 26, 1949, Serial No. 112,537**
**In Great Britain July 30, 1948**
**7 Claims. (Cl. 136—100)**

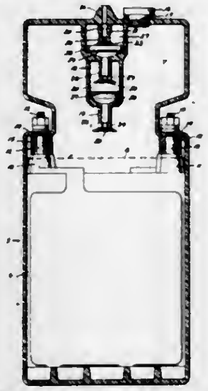


1. A galvanic cell comprising an alkali-amalgam electrode as a negative electrode, an alkali lye electrolyte, and a positive electrode consisting of a metal oxide which is practically insoluble in the electrolyte and the metal oxide being selected from the group consisting of CuO, $Ag_2O$ and $NiO_2$, the alkali-amalgam electrode being a fluid and in all its parts having a concentration not in excess of 3% of the alkali metal.

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**2,646,459**
**ELECTRIC STORAGE BATTERY VENTING SYSTEM**
**Walter L. Gili, Redlands, Calif.**
**Application October 9, 1951, Serial No. 250,416**
**5 Claims. (Cl. 136—177)**

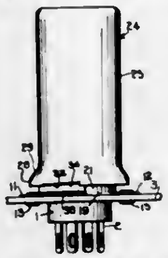
2. An invertible storage battery consisting of a closed battery jar comprising a lower conventional plate and electrolyte receiving chamber and a superimposed auxiliary chamber of a capacity to receive all of the electrolyte when the battery jar is inverted, a venting element depending from the top of the jar into said auxiliary chamber, said venting element comprising a first compartment depending from the top of the battery jar into said jar, a second compartment depending from the bottom of the first compartment, a tubular member depending from the top of the jar into the first compartment and vented at its top to the atmosphere, a second tubular member depending from the bottom of the first compartment into the second compartment, a third tubular member depending from the bottom of the second compartment into said battery jar, baffle plates closing the bottoms of the respective tubular members, ports through the walls of said tubular members above the baffle plates, and a freely floating loose baffle disc in each of said compartments located below the



respective baffle plates therein each disc having a multiplicity of holes therethrough and each of said discs being of a diameter to substantially span the entire width of its compartment.

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**2,646,460**
**TUBE SHIELD AND SOCKET MOUNTING ASSEMBLY**
**Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois**
**Application May 26, 1950, Serial No. 164,543**
**5 Claims. (Cl. 174—35)**

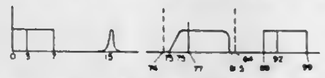


3. A tube shield and socket mounting assembly comprising a socket mounting member having a projecting locking element, means for attaching said socket mounting member to a support, a tube shield adapted to be assembled with said mounting member comprising a tubular member having a cam flange integrally joined to its lower end and extending inwardly therefrom, a leg element extending from said cam flange for engagement with a support, said cam flange being engageable with the under surface of said locking element upon rotation of the tube shield to urge said shield toward said support, and one of said elements being resilient so that said shield tensionally engages said support.

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**2,646,461**
**TELEVISION TEST SYSTEM**
**Francis C. Grace, New York, and Robert G. Artman, Roslyn, N. Y., assignors to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware**
**Application September 16, 1950, Serial No. 185,248**
**4 Claims. (Cl. 178—5)**

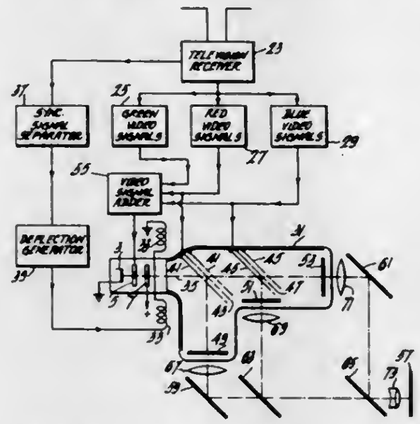
1. Television transmitter testing apparatus comprising a heterodyne receiver having a tunable local oscillator, a second oscillator, a first mixer connected to both said oscillators to mix the signals therefrom, means to select the low frequency components of the mixed signals and modulate said transmitter therewith, pickup means to extract the modulated signals from said transmitter and apply said signals to said re-



ceiver, a second mixer in said receiver connected to said pickup means and to said local oscillator to mix the output thereof with said modulated signals, and an indicator device connected to the output of said second mixer to measure the amplitude of the instantaneous output signal voltage thereof.

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**2,646,462**
**COLOR TELEVISION IMAGE REPRODUCING SYSTEM**
**George C. Szikiai and Francis J. Darke, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application June 17, 1950, Serial No. 168,816**
**22 Claims. (Cl. 178—5.4)**

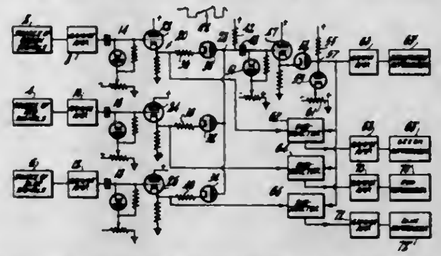



1. In a television system for reproducing an image substantially in its component colors from received video signals, a cathode ray tube including two luminescent screens capable respectively of producing light corresponding in color to two of said component image colors, said screens being disposed in different planes, means to produce a single electron beam with which to scan and selectively excite said screen, and electron-optical means to derive from said scanning beam, and to direct respectively to said screens, substantially simultaneous separate beam components having relative intensities corresponding to the relative intensities of said component image colors.

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**2,646,463**
**APPARATUS FOR REPRODUCING IMAGES IN COLOR**
**Alfred C. Schroeder, Southampton, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application July 18, 1951, Serial No. 237,362**
**2 Claims. (Cl. 178—5.4)**

1. Apparatus for reproducing images in color comprising in combination a plurality of sources of color signals, means for selecting the smallest color signal coupled to said sources, a plurality of subtractors, said subtractors being coupled to said sources, and a limiter coupled between the output of said selecting means and each of said subtractors in such manner that the smallest of



said color signals is subtracted from each of the color signals, a brightness image reproducer coupled so as to have the intensity of its light controlled by the output of said limiter, and a reproducer of differently colored images coupled to the output of each of said subtractors.

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**2,646,464**
**POLAR RELAY BIASING CIRCUIT**
**William B. Callaway, Hackensack, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application June 23, 1950, Serial No. 170,009**
**5 Claims. (Cl. 178—69)**



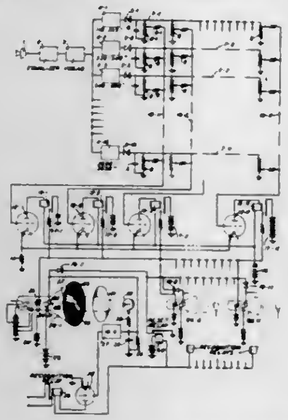
4. A central station and an outlying station, a polar relay at said central station, an operating winding and a biasing winding on said relay, an impulse transmitter at said outlying station, a circuit path connecting said transmitter and said operating winding, a thermistor having a heating element connected to said operating winding and a heat responsive variable resistance connected to said biasing winding, the magnitude of said variable resistance decreasing in response to an increase in heat.

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**2,646,465**
**VOICE-OPERATED SYSTEM**
**Kingsbury H. Davis, Bernardsville, and Andrew C. Norwine, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application March 7, 1951, Serial No. 214,368**
**8 Claims. (Cl. 179—16)**

1. Apparatus for selecting that one of a restricted plurality of reference signals which most nearly resembles an incoming signal, which comprises means for analyzing said incoming signal into a plurality of individually identified components, means for analyzing each of said reference signals into a like plurality of similarly identified components, means for effectively multiplying each of said incoming signal components by the similarity identified component of each one of said reference signals to form a product for each multiplication, means for grouping said products by reference signal groups, means for adding together all of the products of each group to form, for each group, a product sum, and

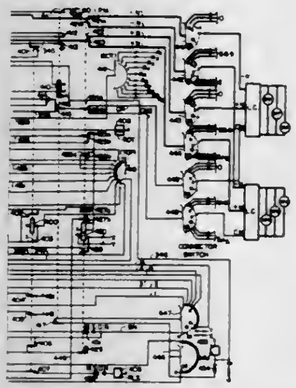
means for selecting the greatest among said product sums, thereby to identify said incom-



ing signal as having the characteristics of a particular one of said reference signals.

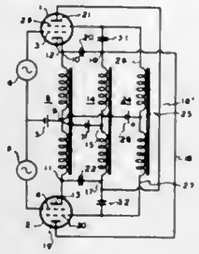
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**2,646,466**
**CONNECTOR SWITCH**
**Pier Bakker, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application October 1, 1949, Serial No. 119,082**
**10 Claims. (Cl. 179—18)**



1. In a telephone system, a plurality of groups of subscriber lines, a connector switch having access to said plurality of groups of lines for extending connections, an auxiliary switch having a plurality of bank contacts and a wiper therefor, means including an operating circuit to step said auxiliary switch responsive to a group of impulses transmitted thereto for positioning said wiper on the contact corresponding to the number of impulses transmitted; a plurality of marking relays each associated with certain of said contacts, operating circuits responsive to the positioning of said wiper on different ones of said contacts for operating said marking relays associated with said different ones of said contacts, a group of connector bank terminals for each group of lines, and means controlled by said marking relays so operated for marking all said connector bank terminals preceding the group of subscriber lines into which said connection is to terminate.

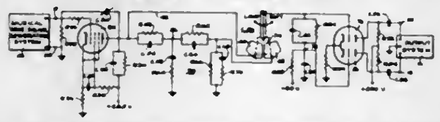
**2,646,467**
**WIDE BAND AMPLIFIER**
**Frank H. McIntosh, Chevy Chase, Md.**
**Application July 13, 1949, Serial No. 104,450**
**17 Claims. (Cl. 179—171)**



1. A push-pull wide band amplifier, comprising, a first electronic amplifier tube having a first anode, cathode and control electrode, a second electronic amplifier tube having a second anode, cathode and control electrode, a negative voltage terminal, a positive anode voltage terminal, a first impedance directly connected between said negative terminal and said first cathode, a second impedance directly connected between said negative voltage terminal and said second cathode, said first and second impedances being the sole elements between said negative voltage terminal and said cathodes, a third impedance directly connected between said positive anode terminal and said second anode, a fourth impedance directly connected between said positive anode terminal and said first anode, a condenser of substantially zero impedance at the lowest frequency for which said amplifier is designed directly coupling said first cathode to said second anode, and a condenser of substantially zero impedance at the lowest frequency for which said amplifier is designed directly coupling said first anode to said second cathode, means for applying input signals in push-pull relation to said control electrodes, and means for biasing said control electrodes to provide anode current flow in at least one of said tubes in response to any finite signal, said first, second, third and fourth impedances being equal to each other for all frequencies of said wide band.

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**2,646,468**
**EAR RESPONSE COMPENSATED VOLUME CONTROL APPARATUS**
**John M. Hanert, Park Ridge, Ill., assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware**
**Application February 1, 1950, Serial No. 141,692**
**7 Claims. (Cl. 179—171)**

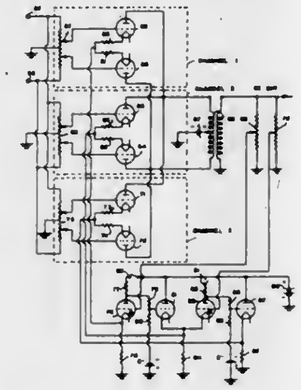


7. In an electrical musical instrument, a source of a plurality of tone signals including voice frequency range signals as well as lower bass frequency signals and higher treble frequency signals, an output system, a high volume path coupling said source with said output system, a low volume path coupling said source with said output system, an ear response compensated attenuator forming a part of said low volume path for compensating for the nonuniform response characteristics of the ear by attenuating medium voice frequencies to a greater extent than the higher treble and lower bass frequencies are attenuated, and a variable capacitor forming a part of said high volume path to vary the transmission of signals through said high volume path relative to said low volume path, whereby the balance among tone signals of various frequencies is changed as the output volume is changed by adjusting said capacitor in order to compensate for the nonuniform response characteristics of the human ear.



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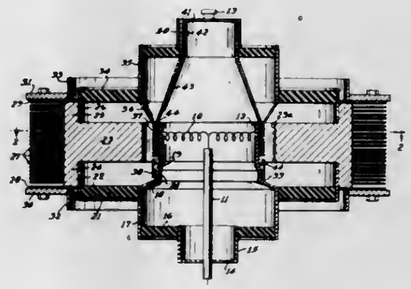
**2,646,469**
**BALANCED MULTICHANNEL AMPLIFIER FOR WIDE AMPLITUDE RANGE**
**John H. Long, Flushing, N. Y., assignor to the United States of America as represented by the Secretary of the Navy**
**Original application March 6, 1946, Serial No. 652,909. Divided and this application February 21, 1950, Serial No. 145,336**
**4 Claims. (Cl. 179—171)**



1. The combination comprising first, second and third amplifier channels having different respective gains; a common input and a common output circuit for said amplifier channels; a control circuit for said amplifier channels comprising: a first, second, third and fourth discharge device each including control, anode and cathode electrodes; a source of direct current energizing voltage for said discharge devices; a first impedance between the anode of said first discharge device and the positive terminal of said source of direct current energizing voltage, and a second impedance between the cathode of said first discharge device and the negative terminal of said energizing voltage source; means coupling the control electrode of said first electron tube discharge device to the said common output circuit of said amplifier channels for rendering said first discharge device conductive when the amplitude of the signal in said common output circuit exceeds a first amplitude level, means coupling the voltage developed across said second impedance to said first amplifier channel to render said first amplifier channel inoperative only upon conduction of said first electron tube discharge device; direct current coupling means for coupling the voltage at the anode electrode of first discharge device to the control electrode of said second discharge device to render the latter said device conductive only when said first discharge device is non-conductive; a third impedance coupled between the cathode electrode of both said second and third electron discharge devices and the negative terminal of said source of energizing voltage; means coupling the anode electrode of said second discharge device to the positive terminal of said source of energizing voltage; a fourth impedance coupled between the anode electrode of said third discharge device and the positive terminal of said source of energizing voltage; means coupling the voltage developed across said third impedance to said second amplifier channel to render same inoperative upon conduction of either said second or third discharge devices; means coupling the control grid of said third discharge device to the said common output of said amplifier channels for rendering said third discharge device conductive when the amplitude of the signal in said common output exceeds a second amplitude level which is higher than said first amplitude level; direct current coupling means for coupling the voltage at the anode electrode of said third discharge device to the control electrode of said fourth discharge device to render the latter said device conductive only when the said third discharge device is non-conductive; a fifth impedance connected in series circuit relation between said cathode of said fourth discharge device and the negative terminal of the source of energizing voltage; and means coupling the voltage developed across said fifth impedance to the said third amplifier channel for rendering same inoperative upon conduction of said fourth discharge device.

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**2,646,470**
**ULTRAHIGH-FREQUENCY TETRODE**
**Howard D. Doolittle, Stamford, Conn., assignor to Machlett Laboratories, Incorporated**
**Application March 25, 1950, Serial No. 151,955**
**25 Claims. (Cl. 179—171)**



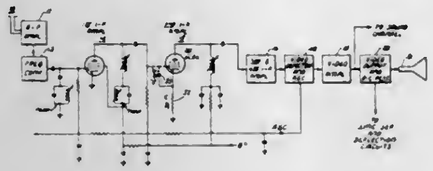
23. An electron discharge device comprising an evacuated chamber, a cylindrical cathode electrode and cooperating coaxial cylindrical control grid, screen grid and anode electrodes mounted in said chamber and spaced apart in the order named, coaxial tubular connections extending from respective adjacent ends of the active portions of said screen grid and control grid electrodes to the exterior of said chamber, an internal coaxial annular radio frequency coupling means between closely spaced cylindrical surfaces at the other ends of said active portions of said screen grid and cathode respectively for maintaining the screen grid and cathode electrodes at substantially the same radio frequency potential, and a coaxial tubular connection from one end of said cathode electrode to the exterior of said chamber.

2,646,471

## FREQUENCY RESPONSE CONTROL MEANS FOR HIGH-FREQUENCY AMPLIFIERS

Oliver F. Cheney, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application September 6, 1950, Serial No. 183,359
3 Claims. (Cl. 179—171)



1. In a high-frequency amplifier stage; a tube having at least cathode, control grid and anode electrodes and a tuned network which includes as a component the inherent input capacitance of said tube, said input capacitance being subject to variation as a function of control-grid bias whereby the frequency response of said stage tends to decrease at the higher frequencies as said bias is made less negative; and means responsive automatically to variations in control-grid bias for varying the frequency response in a direction opposite to, and to an extent greater than is necessary to compensate for, the variations which tend to occur in said frequency response with changes in said bias, said means comprising, in combination, a cathode load resistor connected in the cathode-to-anode circuit of said tube, and a capacitor connected between the cathode end of said resistor and the control grid of said tube, said capacitor having a value which will satisfy the relation—

$$R(C_1+C_{gk})>\frac{\Delta C}{g_m}$$

where

$R$=the resistance (in ohms) of the cathode load resistor,
$C_1$=the capacitance (in farads) of the external grid-cathode capacitor,
$C_{gk}$=the grid-cathode interelectrode capacitance (in farads) when the tube is cut off,
$g_m$=the transconductance (in mhos) of the tube for a particular operating point,
$\Delta C$=the change (in farads) in grid-cathode interelectrode capacitance when the transconductance is $g_m$ as compared with the capacitance when the tube is cut off,

and R having a value substantially equal to that which will satisfy the relation—

$$R=\frac{\Delta C}{C_{gk}g_m}$$

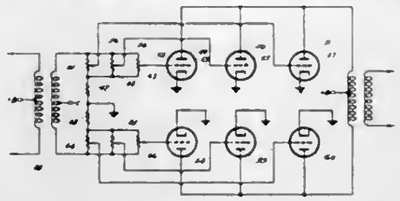
2,646,472

## AMPLIFIER CONTROL SYSTEM

Ronald J. Rockwell, Cincinnati, Ohio, assignor to Crosley Broadcasting Corporation, Cincinnati, Ohio, a corporation of Ohio

Application September 6, 1950, Serial No. 183,439
3 Claims. (Cl. 179—171)

1. In an amplifier the combination comprising a plurality of tubes having $e_g/i_p$ characteristics, such that substantially the same ratio exists in each tube between the bias potential and the peak signal potential necessary to cause a given plate current to flow, each tube having at least an anode, a cathode and a control grid, means connecting the anodes of said tubes directly in parallel, means connecting the cathodes of said tubes to a common equipotential plane, an output circuit coupled between said parallel connected anodes and said equipotential plane, a first terminal and a second terminal, said second terminal being D.-C. coupled to said equipotential plane, a separately associated potentiometer for each tube, each potentiometer having a resistor element connected between said first and said second terminals and



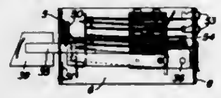
a resistor-element variable contact arm, means for D.-C. coupling the control grid of each of said tubes to its associated potentiometer variable contact arm, a source of signal voltage coupled across said first and second terminals, and a source of bias voltage having a positive terminal D.-C. coupled to said second terminal and a negative terminal D.-C. coupled to said first terminal, whereby the amplifiers are adjusted for dynamic load current division by adjusting the potentiometers so as to balance the idle current among the tubes.

2,646,473

## MANUALLY OPERATED SELECTING AND CONTROLLING SWITCH APPARATUS

Andrew W. Vincent, Rochester, N. Y., assignor to Talk-O Products, Inc., Rochester, N. Y., a corporation of New York

Application April 25, 1950, Serial No. 157,956
7 Claims. (Cl. 200—1)



3. In a switching unit, a group of contact spring stacks, a rocking key lever individual to each stack, a shaft on which said levers rock, a member common to said key levers and arranged to rock in the same direction on said shaft to two different positions by the operation of any one of said keys, means including a yieldable detent for indicating the first position, a first stack of contact springs common to said group of contact spring stacks, a second stack of contacts common to said group of stacks, and means including said member for operating one of said common stacks in the first position of said member and for operating the other common stack in the second position of said member.

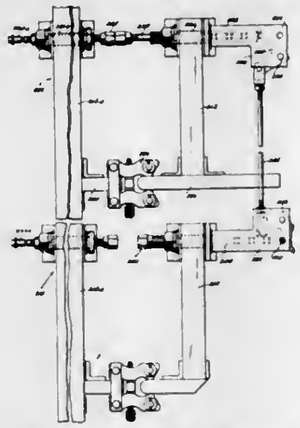
2,646,474

## UNIVERSAL INTERLOCK

Robert L. Stratton, Folcroft, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

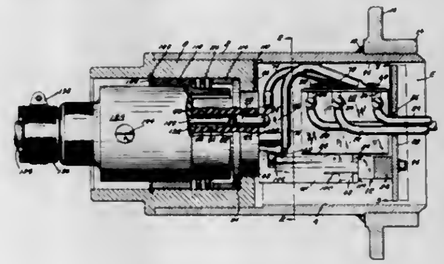
Application December 7, 1949, Serial No. 131,524
4 Claims. (Cl. 200—50)

1. In combination, a first circuit breaker, a second circuit breaker, each of said circuit breakers having a fixed contact and a movable arm carrying a movable contact engaging and disengaging with its associated fixed contact, a panel, a movable disconnect contact, a stationary disconnect contact mounted on said panel and engageable with its associated movable disconnect contact when the circuit breaker is racked into position therefor, a push rod slidably mounted on said panel, a bell crank, one arm of said bell crank being engageable by one end of its associated push rod, a connecting link connecting the other arm of the bell crank for adjacent circuit breakers, a bracket secured to said panel, said push rod extending through said bracket, said bell crank being pivotally mounted on said bracket for movement about its pivot when operated by its associated push rod, means for supporting said bracket on its associated panel, a coaxial rod for said push rod, one end of said auxiliary rod engaging said push rod and the other end being engageable with the movable arm of the associated circuit breaker, the push rod, its auxiliary rod, and its bell crank having one position for the circuit closed position of its associated circuit breaker and having a second position for the circuit open position of its associated circuit breaker, means for locking the bell crank in the position corresponding to the circuit open position of the circuit breaker, the end of the auxiliary rod engaging its associated push rod when it is in the position corresponding to the closed position of its associated circuit breaker before the associated movable disconnect contact engages the associated fixed disconnect contact to prevent further racking of said circuit breaker while said circuit breaker is closed, the push rod of one of said circuit breakers being operated by the closing of its associated movable arm to rotate its associated bell crank about its pivot and moving through said connecting rod the other of said bell cranks and the push rod of the other of said circuit breakers to the position corresponding to the circuit open position of the movable arm of said other circuit breaker.





which is adapted to form part of an explosion-proof chamber, a secondary housing adapted to fit in the other end of the bore and having an end wall defining one end of the explosion-proof chamber, the end wall having an opening therethrough, a support carried by the end wall and extending into said chamber, a switch mounted on the support and having an operating element movable into a plurality of operating positions and a plurality of terminals, a socket support rotatably mounted in the opening in the end wall and forming a seal for that opening, a socket member carried by the socket support and having a socket opening into the secondary housing



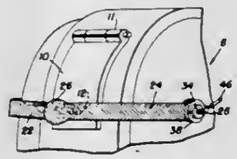
and a terminal extending into the explosion-proof chamber, an electrical conductor connected at one end to the socket terminal and at its other end to a switch terminal, a switch actuator carried by the socket support and having an arm in operating engagement with the operating element of the switch and adapted to move said element into its plurality of operating positions upon rotation of the socket support, a plug carrier insertable in the secondary housing, an electrically conductive plug carried by the plug carrier and cooperable with the socket member, and means including the cooperating plug and socket member to rotate the socket support by rotating the plug carrier.

2,646,476

## SWITCH FOR SIGNALING DEVICE FOR STOKERS AND THE LIKE

Horace G. Landry, Oneonta, N. Y.

Application April 9, 1951, Serial No. 220,079
3 Claims. (Cl. 200—54)



2,646,475

## ELECTRIC SWITCH AND POWER TAKE-OFF DEVICE

Ross H. Goodrich and Neal W. Densmore, Claremont, N. H., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 29, 1951, Serial No. 218,124
19 Claims. (Cl. 200—51.09)

1. An electrical circuit controlling device comprising a main housing having a bore one end of

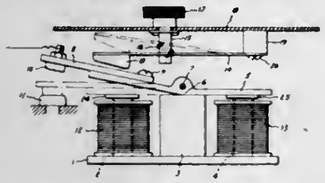
1. A circuit make and break attachment for an ash receiver door comprising an elongated flexibly resilient arcuate strap member, first bolt and nut means for mounting one end of said member on a receiver, second bolt and nut means for mounting the opposite end of said member on a swingable door, a complemental elongated flexibly resilient arcuate strap member, and additional bolt and nut means on one end of the latter for anchoring same on said receiver.

2,646,477
**LIGHT AND SWITCH COMBINATION**
Vincent R. Herterick, Sturgis, Mich., assignor to Wade Electric Products Co., Sturgis, Mich., a corporation of Michigan
Application October 21, 1949, Serial No. 122,831
9 Claims. (Cl. 200—51.13)



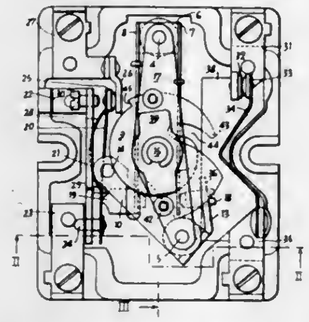
1. In a light and switch combination adapted to be inserted within and resiliently carried within a drilled hole in a current conducting member, a non-conductive tubular supporting member of a dimension which will slip through said hole, a conductive bulb retainer carried within said tubular member and opening outwardly through one end wall thereof, a switch mechanism within said tubular member and having a pair of relatively movable contacts and a non-conductive actuator, said actuator extending outwardly of the opposite end wall of said tubular member and operable to control the relative position of said contacts, a resilient conductive securement carried by said opposite end wall and electrically connected with one of said contacts and adapted upon insertion into said hole to releasably secure said tubular member to and to electrically connect said one contact to said conducting member and means electrically connecting the other of said contacts to said retainer.

2,646,478
**SWITCH CLOSING MECHANISM**
George M. Euler and Eli A. Desautels, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 24, 1949, Serial No. 101,056
13 Claims. (Cl. 200—87)



1. In an electric switch having a pivoted contact operating member, an insulated movable contact positioned on said member, a fixed contact for engaging said movable contact when said switch is in the closed position, means for moving said member to open said contacts, and a separate reclosing mechanism comprising a cantilever spring having one end fixed, a portion of relatively large mass at the opposite free end of said spring, said spring being normally in an intermediate neutral position with the said free end positioned adjacent said switch operating member, and means for flexing said spring from said neutral position away from said member and releasing it whereby it passes through said neutral portion and the free end of said spring strikes said member and causes it to move said movable contact into engagement with said fixed contact, said means being constructed and arranged so that said spring returns to the said neutral position after striking said member whereby said member may be immediately retracted to open said contacts again.

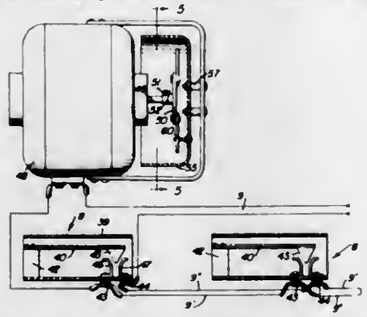
2,646,479
**ELECTRICAL ENERGY REGULATOR**
Thomas Stuart Ashe, Timperley, Altrincham, England, assignor to Sunvic Controls Limited, London, England, a company of Great Britain
Application December 18, 1950, Serial No. 201,302
In Great Britain December 29, 1949
15 Claims. (Cl. 200—122)



1. An electric energy regulator, comprising a snap-action switch, first and second bimetal strips rigidly secured together at adjacent ends and to common pivotal means on which said adjacent ends are mounted with the free end of the said first bimetal strip engageable with said snap-action switch for actuation of said switch by pivotal movement of said strips, a base member of block form on which the snap-action switch is mounted, a bridge member supported from the base member and extending over the bimetal strips, a rotary cam carried by said bridge member, an operating shaft for said cam extending from said bridge member on the side thereof remote from the base member, a cam-follower lever extending between said cam and a pivotal mounting on the base member on an axis substantially parallel with the pivotal axis of the bimetal strips, and located adjacent the free end of the second said bimetal strip, an abutment on said cam-follower lever located at a first radius thereon from the pivotal axis thereof and co-operating with the cam, a second abutment carried by said lever at a radius thereon from said pivotal axis less than said first radius and engageable with the free end of said second bimetal strip to position said strips in accordance with the position of said shaft, and a heating circuit for one of said strips including the contacts of said switch and cooperative with said strip alternately to open and close the switch, while the other of said strips provides compensation for variation of ambient temperature.

2,646,480
**FIRE ALARM SWITCH**
Ira F. Pyles, Fairview, Ill.
Application August 29, 1950, Serial No. 182,080
1 Claim. (Cl. 200—138)

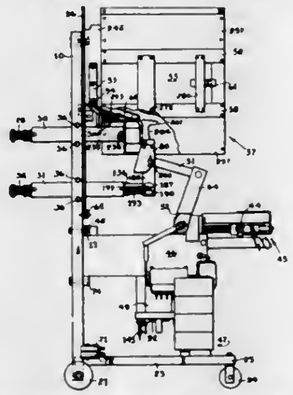
An alarm device comprising an elongated casing with parallel walls, an elongated substantially flat bimetallic strip arranged in substantial parallelism to the wall of the casing, a fixed support for said strip near one end of the casing, the other end being free and near the other end of the casing, a wedge shaped prismatic bridge contact of substantially triangular cross section carried by said bimetallic strip and fastened with its base at right angles to the bimetallic strip, the edge of the wedge running in substantial parallelism to the flat bimetallic strip, two elastic upstanding alarm circuit contacts insulated from each other and mounted on said insulating casing at a distance from each other on a wall of the casing parallel to and facing the bimetallic strip, contact surfaces arranged at the ends of the elastic upstanding alarm contact substantially parallel to the wedge surfaces, said alarm circuit contacts being placed close to each other, the



contact surfaces of both alarm circuit contacts forming a wedge like structure having substantially the same cross section as the wedge shaped contact carried by the bimetallic strip, the latter when bent by unequal dilation pressing the wedge shaped prismatic contact into the wedge formed by the contact surfaces of the alarm circuit contacts.



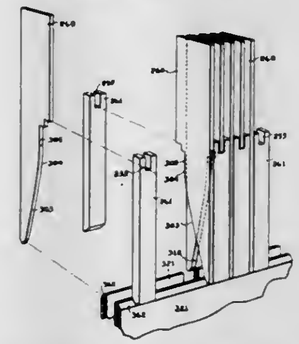
2,646,481
**HIGH-VOLTAGE CIRCUIT BREAKER**
Joseph D. Wood, Upper Darby, and Arthur S. Caswell, Philadelphia, Pa., assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application January 11, 1947, Serial No. 721,648, now Patent No. 2,613,299, dated October 7, 1952. Divided and this application May 7, 1947, Serial No. 746,554
6 Claims. (Cl. 200—147)



3. In a circuit breaker, a fixed contact, a back connecting stud connected to said fixed contact, a blow-out coil, an arc chute, said blow-out coil having a disconnect contact secured to one terminal thereof, the opposite terminal of said blow-out coil being electrically connected to said back connecting stud, and a conductor connected to said arc chute and arranged to engage said disconnect contact when said arc chute is mounted in place on said circuit breaker, said arc chute being removable from said circuit breaker, the removal of said arc chute disengaging said conductor from said disconnect contact.



2,646,482
**HIGH-VOLTAGE CIRCUIT BREAKER**
Joseph D. Wood, Upper Darby, and Arthur S. Caswell, Philadelphia, Pa., assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application January 11, 1947, Serial No. 721,648, now Patent No. 2,613,299, dated October 7, 1952. Divided and this application June 4, 1947, Serial No. 752,426
12 Claims. (Cl. 200—147)

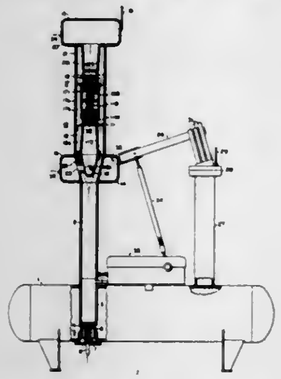


1. An arc chute for circuit breakers having engaging and disengaging contacts comprising insulation side walls, front and back arc runners and a plurality of insulation plates mounted in spaced relation, means for generating a strong magnetic blow-out field for forcing the arc formed on interruption of said contacts into the arc chute, the circuit breaker plates being rectangular in shape at the top and having long tapered lower edges extending from the center of one side of the plate to the lower corner of the opposite side of the plate, and a ceramic spacer interposed between adjacent plates to said supported plate for supporting each plate and spacing said supported plate with respect to said adjacent plates, said ceramic spacer forming with the tapered surface of said supported plates a triangular opening.

2,646,483
**PNEUMATIC OPERATING ASSEMBLY FOR AIR-BLAST CIRCUIT INTERRUPTERS**
Benjamin P. Baker, Turtle Creek, and Howard M. Wilcox, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1949, Serial No. 73,516
5 Claims. (Cl. 200—148)

1. A compressed-air circuit-breaker assembly comprising: a compressed-air tank; an air-blast interrupter-assembly; a blast-tube for at times supplying said interrupter-assembly with an air-blast from said tank; said blast-tube extending away from a wall of the tank, the entrance-end of said blast-tube being hermetically connected with said wall of the tank and being open to the interior of said tank; a normally closed blast-valve within said tank, said blast-valve comprising a closure-member which is movable toward and away from the entrance-end of said blast-tube, and means for providing a valve-chamber back of said closure-member for at times pressing said closure-member into its closed position; a valve-controlling tripping-means operating, in its deenergized condition, to apply a valve-closing air-pressure to said valve-chamber back of said closure-member, said tripping-means operating, in its energized condition, to dump air-pressure

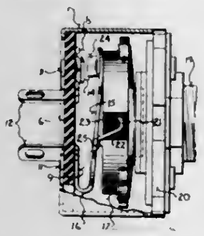
from said valve-chamber, thereby causing said blast-valve to open; an isolating-switch; means for electrically connecting the isolating-switch in series-circuit relation to the air-blast interrupter-assembly; an operating-mechanism for said isolating-switch; means for energizing said



tripping-means; means for operating the operating-mechanism so as to cause said isolating-switch to open and to become locked in its open position when the interrupter-assembly has completed its circuit-interrupting operation; and means responsive to an opening movement of said operating-mechanism for deenergizing said tripping-means.

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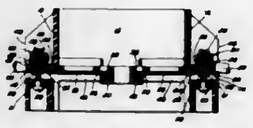
**2,646,484**
**SEQUENTIAL DOUBLE CONTACT SWITCH**
**Adrian J. Vaksvik, Elkhart, Ind., assignor to Chicago Telephone Supply Corporation, Elkhart, Ind., a corporation of Indiana**
**Application October 14, 1950, Serial No. 190,158**
**7 Claims. (Cl. 200—164)**



6. In an electric switch: a base; a stationary contact on the base having two contact portions both of which face upwardly from the top of the base, one of said portions projecting farther from the base than the other; a movable contact in the form of a spring blade having a reverse bend at one end thereof to provide a short anchoring portion and a long resilient free end portion; means rigidly securing the mounting portion to the base with the free end portion of the spring blade overlying the stationary contact but spaced therefrom by the resilience of the blade, the free end portion of the spring blade having a contact portion at its extremity overlying and engageable with the contact portion of the stationary contact nearest the base to thus provide one set of contacts and having another contact portion overlying and engageable with the contact portion of the stationary contact farthest from the base to provide a second set of contacts, the relative elevations of the contact portions above the base and with respect to each other being such that upon flatwise flexure of the spring blade toward the base the first and second designated sets of contacts are sequentially engaged in said order and upon continued flatwise flexure of the spring blade toward the base by a force applied thereto medially of its ends, the blade rocks about the point of contact between the second engaged set of contacts to lift the contact at the extremity of the blade off its companion stationary contact portion; an actuator spaced above the base and the stationary contact thereon and constrained to movement in a fixed plane parallel to the base and generally lengthwise of the spring blade; and cooperating driving abutments on the actuator and the medial portion of the resilient free end portion of the spring blade engageable with a camming action during switch closing movement of the actuator to apply a downward flexing force upon said medial portion of the spring blade and thereby effect the aforesaid sequential engagement of the two sets of contacts, the reverse bend at the anchored end of the spring blade providing for some endwise displacement of its resilient end portion with respect to the anchorage of the blade to give the blade endwise as well as flatwise resiliency so that the camming action of the cooperating driving abutments to effect closure of the switch imposes an endwise thrust upon the blade to slightly displace the same in the direction of the thrust and thereby cause the contact at the extremity of the blade to engage its companion stationary contact with a wiping action.

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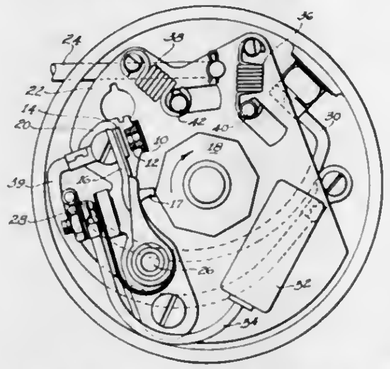
**2,646,485**
**COMBINED CONTACT AND TERMINAL MEMBER FOR ELECTRIC SWITCHES**
**Herbert M. Cole, Teaneck, N. J., assignor to Federal Electric Products Company, Newark, N. J., a corporation**
**Application February 8, 1950, Serial No. 143,121**
**3 Claims. (Cl. 200—166)**



1. A combined switch contact and cable-terminal member for an electric switch having a housing, comprising a one-piece structure having an elongated flat switch contact part, provided with an opening extending therethrough to receive a companion movable contact of the switch, and a terminal part having one side wall bent up from said contact part at one end thereof, a top part, an opposite side wall bent down from said top part and a bottom part bent inwardly from the lower end of said opposite side wall and lying in the plane of said contact part forming a substantially rectangular member, said side walls having registering openings extending therethrough to receive the terminal end of a cable or wire and said top part having a threaded opening, a clamping screw engaged in said threaded opening for clamping the terminal end of the cable against lower edges of said openings of said side walls, and said bottom wall having a screw-threaded opening for engagement by a screw for securing said combined contact and terminal member in position in the switch housing.



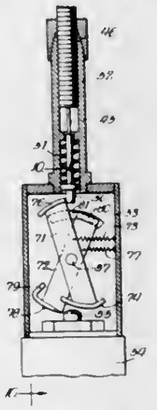
**2,646,486**
**CONTACT FOR IGNITION SYSTEMS**
**Stanley M. Udale, Detroit, Mich., assignor to Holley Carburetor Company, Detroit, Mich., a corporation of Michigan**
**Application October 12, 1951, Serial No. 251,077**
**6 Claims. (Cl. 200—166)**



1. In an ignition system for internal combustion engines having stationary and a moveable contact, a first metallic and a second non-metallic contact member with substantially flat opposed contact surfaces, the first contact member having an opening in the center, through which air may pass and having an area of approximately one-third that of the non-metallic contact which is imperforate.

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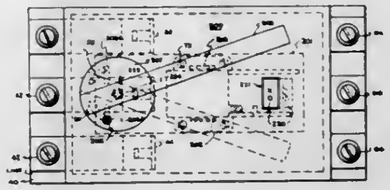
**2,646,487**
**CONTROL DEVICE**
**Frederick O. Johnson, Chicago, Ill.**
**Application February 1, 1949, Serial No. 74,008**
**8 Claims. (Cl. 200—169)**



7. In a control device of the character described, the combination of a switch having a push button, a pair of rotary members each having cam surfaces adapted to depress said button, spring means tending to rotate said members, shiftable means for normally holding one of said members against rotation with its cam surface out of engagement with said button, the other of said members being normally held by said spring means with its cam surface out of engagement with said button, means on said other member for engaging said one member to rotate the latter in response to rotation of said other member, and a handle on said other member for manually rotating the same whereby to reset said one member, said other member upon release thereof being returned to its normal position by the action of said spring means.

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**2,646,488**
**CIRCUIT BREAKER ACTUATOR ARRANGEMENT**
**Elwood T. Platz, Detroit, Mich., assignor to BullDog Electric Products Company, Detroit, Mich., a corporation of West Virginia**
**Application March 10, 1949, Serial No. 80,710**
**10 Claims. (Cl. 200—172)**



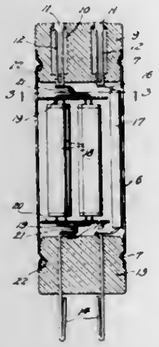
5. An actuator arrangement adapted to be operatively connected to an encased circuit breaker having a contactor and an operating mechanism, comprising a casing cover, a slider plate having means for connecting it to said mechanism, said plate being under said cover, a handle above said cover, and a pin means passing thru said cover and connecting said handle and plate for detachably and operatively connecting said handle and plate thru said cover, said handle and said plate having duplicate formations for selectively receiving said pin means and enabling the handle to be selectively connected to said plate in either of two different positions relative to said plate, and to move in either of two different directions selectively for moving said plate in one specific direction, the formations of the plate being in the form of notches receiving said pin means, and those of the handle being in the form of threaded holes receiving a threaded portion of the pin means, the latter having a head exposed to the front of the breaker.

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**2,646,489**
**VARIABLE RESISTANCE AUXILIARY ELECTRICAL RECEPTACLE FOR ELECTRICAL LIGHTING APPLIANCES**
**Roger A. McArron, Somerset, Ohio**
**Application July 17, 1951, Serial No. 237,234**
**3 Claims. (Cl. 201—63)**

1. An auxiliary receptacle for electrical lighting appliances comprising a receptacle frame provided at one end with a dielectric member defining socket means for the reception of the male terminals of an electrical lighting appliance; a pair of electrical contacts positioned in said socket means for circuit-making engagement with the male terminals of an electrical appliance received in said socket means; a pair of male terminals carried by and projecting outwardly from the opposite end of said frame for insertion within a female current-supplying receptacle; an electrical conductor connecting one of said electrical contacts with one of said male terminals; and an electrical resistance element having a negative temperature - resistance coefficient electrically connected between the other of said pair of electrical contacts and the other of said pair of male

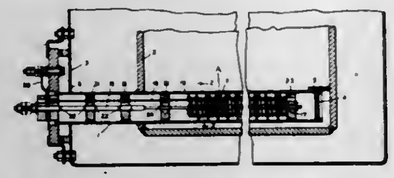
terminals, said resistance element serving to initially decrease the voltage passing through said receptacle to a lighting appliance connected



therewith and thereafter to progressively increase said voltage to cause the lighting appliance to progressively increase in illumination following energization thereof.

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**2,646,490**
**CORE FOR IMMERSION HEATERS**
**Oscar C. Trautman, Parma, Ohio, assignor to The Trauwood Engineering Company, Cleveland, Ohio, a corporation of Ohio**
**Application July 25, 1951, Serial No. 238,440**
**7 Claims. (Cl. 201—67)**

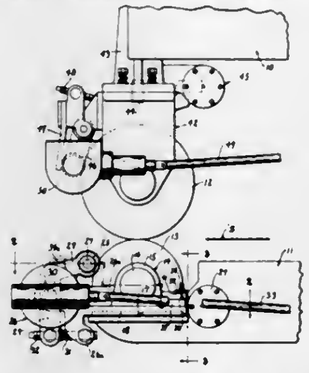


1. A refractory core for a helical resistance element comprising a number of individual parts, arranged in end-to-end relationship, said parts including one or more pieces each constituting a section of a cylinder having helical ends and radially projecting fins on its outer arcuate surface disposed in circumferentially spaced, helical arrangement thereabout, whereby to separate the convolutions of such resistance element, said parts also including one or more pieces each constituting a section of said cylinder having helical ends adapted to radially abut the helical ends of said first-mentioned pieces and being provided with a continuous, radially projecting helical rib thereon extending radially beyond said fins, whereby to support said core in a predetermined position within an enclosing member and also to separate the convolutions of such resistance element.

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**2,646,491**
**SEAM-WELDING APPARATUS**
**Clyde E. Coates and Arthur L. Williams, Warren, Ohio, assignors to Federal Machine & Welder Company, Warren, Ohio, a corporation of Ohio**
**Application February 1, 1952, Serial No. 269,514**
**8 Claims. (Cl. 219—4)**

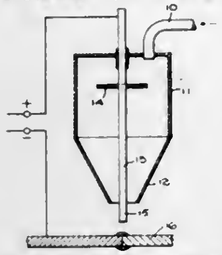
1. Apparatus for joining contiguous edges of sheet material comprising joining means rotatable about an axis and also shiftable longitudinally of said axis, said joining means being engageable with said contiguous edges in seam-forming relation and rotatable therealong to form said



seam, and means for turning the plane of rotation of said joining means.

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**2,646,492**
**CONTROL OF ELECTRIC ARCS USED IN WELDING OR METAL SPRAYING PROCESSES**
**William Edward Ballard, Harborne, Birmingham, England**
**Application July 8, 1950, Serial No. 172,638**
**In Great Britain July 13, 1949**
**3 Claims. (Cl. 219—8)**



1. In an apparatus for the deposition of molten metal of the kind comprising a chamber having an inlet port for gas and a discharge orifice for the gas, electrode-supporting means, and at least one electrode supported thereby having an arc-forming extremity positioned in the locality of said orifice; the provision of a body of radioactive material supported within said chamber in the path of gas passing through said chamber between said inlet and said orifice and at a distance from said electrode extremity corresponding to the ion-pair forming range of said material.

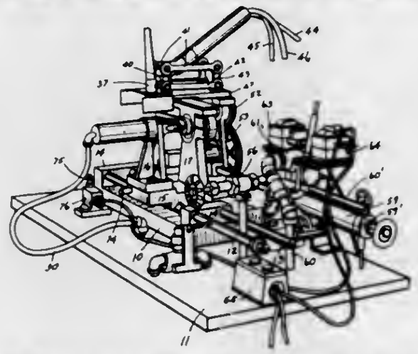
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**2,646,493**
**ARC WELDING MACHINE**
**Charles R. Moon, Muncie, Ind., assignor to Ontario Manufacturing Company, Muncie, Ind., a corporation**
**Application March 26, 1951, Serial No. 217,578**
**17 Claims. (Cl. 219—8)**

1. In a welding device for welding a linear and curvilinear joint between the edges of two juxtaposed pieces of material having relatively thin walls, the combination with an electric arc welder having a welding electrode, of means for movably supporting said electrode to maintain it at a fixed angle with respect to said joint, means for holding the pieces of material with their edges juxta-



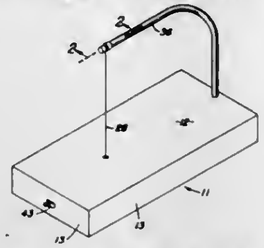
posed to present said joint to the welding electrode, means for linearly and curvilinearly feeding said holding means past the welding electrode and means operatively associated with said elec-



trode supporting means and said feeding means for moving said electrode supporting means to maintain constant the spacing between the electrode and the joint irrespective of variations in the contour of the joint.

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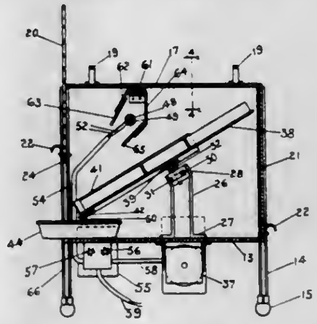
**2,646,494**
**UNIT FOR CUTTING MATERIALS BY HEAT**
**Robert W. Fegan, Kenmore, N. Y., assignor to George B. Hart, Inc., Rochester, N. Y., a corporation of New York**
**Application June 21, 1950, Serial No. 169,499**
**1 Claim. (Cl. 219—29)**



Apparatus for cutting materials comprising, in combination, a grounded box-like frame having a planar top surface upon which the materials to be cut are placed, said top surface having an opening toward the front thereof, a gooseneck shaped conducting member carried by and in conducting relation with the platform adjacent the rear thereof and extending forwardly to a position with its free end above the opening, a high resistance conducting wire connected to the end of said member, a terminal insulated from the frame below the top surface thereof, said resistance wire extending downward through said opening and being connected to said terminal, said top surface affording a planar area over which the articles to be cut may be moved in cutting relation to said wire which planar area is normal to said wire and unobstructed except for the lower end of said gooseneck, and means including a switch and a transformer located below said planar surface for completing the circuit through the resistance wire, said gooseneck shaped member being sufficiently resilient that the end of the member to which the wire is attached tends to move away from the terminal beneath the top surface to maintain the wire taut when it lengthens due to heat.

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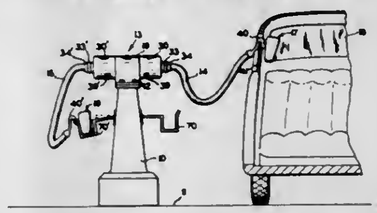
**2,646,495**
**BROILING DEVICE**
**Edward Dornbush, Miami Beach, Fla.**
**Application March 19, 1952, Serial No. 277,497**
**3 Claims. (Cl. 219—35)**



3. A device of the class described comprising a housing, a substantially circular tray mounted in said housing, support means mounting said tray at an angle inclined from the horizontal, a plurality of substantially U-shaped upstanding members mounted on said tray with leg portions of said members extending radially to the periphery of said tray, said members being joined at their inner end portions to form a centrally disposed enclosed compartment and a plurality of radially disposed open ended compartments, a guard mounted along the periphery of substantially the lower half of said tray, said guard extending above said tray and having a flanged portion extending beneath said tray, an opening contained in said guard at substantially the lowermost portion of said tray, heating means mounted in said housing above said tray, heat deflector means mounted in said housing above said heating means, further heat deflector means mounted in said housing between said heating means and said tray constructed and arranged to deflect heat emitted in the direction of said enclosed compartment on said tray, and means for rotating said tray.

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**2,646,496**
**COMBINATION SPEAKER AND HEATER FOR OUTDOOR THEATERS**
**Sigmund Takach, Youngstown, Ohio**
**Application January 10, 1951, Serial No. 205,319**
**3 Claims. (Cl. 219—39)**

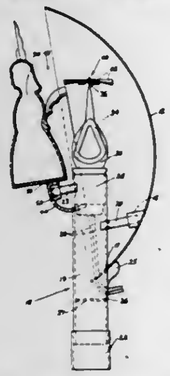


3. In apparatus for supplying conditioned air to parked automobiles the combination with a pair of adjacent parking stalls for automobiles of a motor positioned between said stalls, blower means mounted adjacent said motor and arranged to be operated thereby, separate duct means leading from said blower means to said adjacent stalls, said duct means each including an outlet box adapted to be positioned within the interior of an automobile, separate electri-

cally energized heating elements positioned in each of said separate duct means closely adjacent said blower means, first control means on each of said outlet boxes for regulating the energization of said heating elements from within said automobiles, and second control means on said outlet boxes for regulating the flow of air therethrough.

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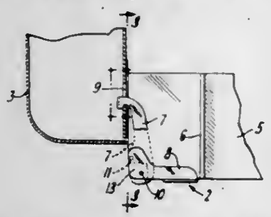
**2,646,497**
**ILLUMINATED DECORATION WITH REFLECTOR**
**Jack Burnbaum, Watertown, Mass., assignor to Bradford Novelty Co., Inc., Cambridge, Mass., a corporation**
**Application December 2, 1950, Serial No. 198,859**
**3 Claims. (Cl. 240—10)**



1. An illuminable decoration comprising a reflector embodying two sockets extending forwardly and diagonally downward in position of use, a supporting member embodying two legs extending rearwardly and diagonally upward in position of use and adapted to enter said sockets, said supporting member embodying two additional legs above and extending forwardly of the first two said legs, lighting means supported by said supporting member, and decorative means embodying two sockets extending rearwardly in position of use and into which said two additional legs are adapted to enter.

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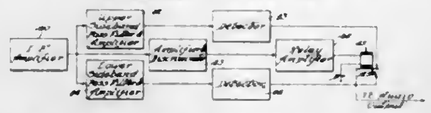
**2,646,498**
**SUPPORTING LATCH FOR LIGHTING FIXTURES**
**Robert G. Marchisio, Wenham, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**
**Application June 30, 1950, Serial No. 171,298**
**1 Claim. (Cl. 240—51.11)**



A lighting fixture comprising an end plate having an aperture therein, a light-controlling member having a longitudinal louver substantially perpendicular to the end plate, and means for securing the longitudinal louver of said light-controlling member to said end plate, said means comprising a lever having a channeled portion and a bifurcated portion, said bifurcated portion being pivotally mounted on the longitudinal louver of said light-controlling member and the longitudinal louver of said light-controlling member being seated in said channeled portion, and a hook having a channeled portion and a bifurcated portion, said channeled portion lying within the aperture in said end plate and interlocking with said end plate and said bifurcated portion enclosing the bifurcated portion of said lever and pivotally mounted thereon.

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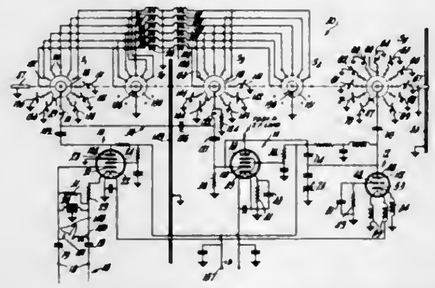
**2,646,499**
**SINGLE-SIDEBAND RADIO EQUIPMENT**
**James L. A. McLaughlin, La Jolla, Calif.**
**Application February 28, 1948, Serial No. 11,925**
**2 Claims. (Cl. 250—20)**



1. Single sideband radio apparatus of the character described, including: a first circuit, including tuning means, for providing a signal which varies in frequency as a function of the operation of said tuning means and which has upper and lower sidebands; and a second circuit coupled to said first circuit for determining the selection of one of said sidebands by, and as a function of, the operation of said tuning means, said last mentioned circuit including two sideband selecting differently tuned band-pass circuit portions and apparatus for converting frequency variations into voltage amplitude variations providing a substantially straight line sloping frequency against voltage characteristic curve throughout a frequency band from substantially the mid-frequency of one sideband selector band-pass circuit to substantially the mid-frequency of the other and going through zero substantially midway therebetween and a switch operated by variations in amplitude of said voltage for switching between said sideband selecting circuit portions.

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**2,646,500**
**HIGH-FREQUENCY TUNER**
**Robert F. Romero, Cos Cob, Conn., assignor to Radio Corporation of America, a corporation of Delaware**
**Application March 15, 1947, Serial No. 735,003**
**3 Claims. (Cl. 250—20)**

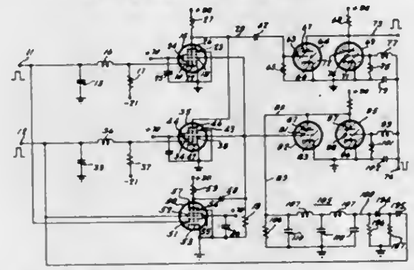


1. In a high frequency system, a transmission line, means to supply signals to said transmission line, a vacuum tube comprising a cathode, an anode and a control grid, one leg of said transmission line being connected to said control grid, the other leg of said transmission line being connected to said cathode, said last named connection including a resistor, means comprising an inductance separate from said first named means for connecting both legs of said transmission line to a common voltage reference point in said system in balanced relationship, and an output connection from said anode which is unbalanced with respect to said voltage point.



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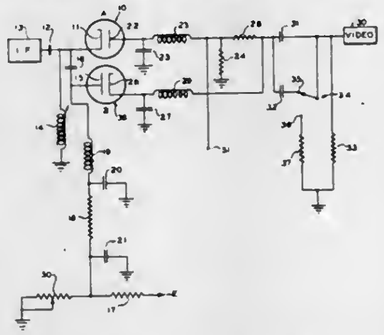
**2,646,501**
**SIGNAL RESPONSIVE DEVICE**
**John Presper Eckert, Jr., Gladwyne, and John W. Mauchly, Ambler, Pa., assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania**
**Application October 21, 1950, Serial No. 191,402**
**9 Claims. (Cl. 250—27)**



1. In an impulse responsive network, a circuit comprising first and second input conductors adapted to receive stimuli and first and second output conductors, said first output conductor being energized upon the occurrence of stimuli on only one of said input conductors, said second output conductor being energized at a predetermined time after the concurrence of stimuli upon both of said input conductors, and an additional connection between said second output conductor and said second input conductor of said circuit.

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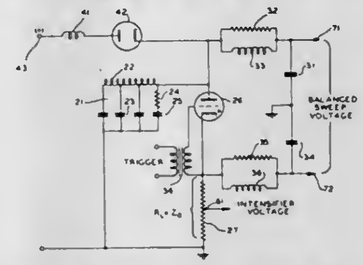
**2,646,502**
**NOISE LIMITING CIRCUIT**
**Persa R. Bell, Jr., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**
**Application August 30, 1945, Serial No. 613,606**
**1 Claim. (Cl. 250—27)**



An automatic radio noise silencer circuit for use with a source of pulse-modulated alternating signals of variable amplitude, comprising a first and second diode, each of said diodes having a plate and a cathode, means for connecting said source of pulse-modulated alternating signals to the cathode of said first diode, a first capacitor having a negligible reactance at the frequency of said pulse-modulated alternating signals for connecting the cathode of said first diode to the plate of said second diode, a variable source of negative voltage, means for connecting said voltage to the plate of said second diode, first means for returning the plate of said first diode to said pulse-modulated alternating signal source, said first returning means including a first resistor, second means for returning the cathode of said second diode to said pulse-modulated alternating signal source, said second returning means including a second resistor in series with said first resistor, and coupling means for a signal translator including a third resistor connected in parallel with the input circuit of said signal translator, a second capacitor connected in series with said third resistor, means for connecting said serially connected third resistor and second capacitor across said serially connected first and second resistors, a switching means, a third capacitor, a four resistor, means for connecting said third capacitor in parallel with said second capacitor in a first position of said switching means, and means for connecting said fourth resistor in parallel with said third resistor in a second position of said switching means, said second capacitor and said third and fourth resistors forming a network having a time constant which is short relative to the duration of pulse signals applied thereto, and said second and third capacitors and third resistor forming a network having a time constant which is long relative to the duration of pulse signals applied thereto.

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**2,646,503**
**BALANCED SWEEP CIRCUIT**
**David F. Winter, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application November 29, 1945, Serial No. 631,754**
**7 Claims. (Cl. 250—27)**




1. In an oscilloscope circuit means for simultaneously generating substantially linear, balanced sweep voltages and a substantially rectangular intensifier pulse voltage, comprising in combination a pulse forming network, a switch tube, means operative upon the denergization of said switch tube for charging said pulse forming network, means operative upon the energization of said switch tube for discharging said pulse forming network into a load impedance, said impedance being matched to the impedance of said pulse forming network, a first capacitor substantially linearly chargeable to the voltage across said pulse forming network, a second capacitor substantially linearly chargeable to the

voltage across said load impedance, said sweep voltages being taken from said first and second capacitors, said intensifier pulse being taken from said load impedance.

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2,646,504

## EXTENSIBLE ANTENNA WITH TWO-WAY ACTING FLUID DRIVING MEANS

**Frederick V. Gosline, Detroit, Mich., assignor, by mesne assignments, to Pioneer Specialty Company, a corporation of Michigan**

**Application December 1, 1950, Serial No. 198,626**
**4 Claims. (Cl. 250—33)**



1. An antenna of the extensible type comprising a section secured to a stationary support, said section comprising concentric inner and outer spaced cylinders forming an annular chamber therebetween, a movable section slidably mounted within said stationary section, said movable section having a piston slidable within the inner cylinder of said stationary section and dividing said inner cylinder into upper and lower chambers, said movable section further comprising a pair of concentric inner and outer spaced cylinders forming an annular chamber therebetween, an upper section slidable within said movable section, said upper section having a piston within the inner cylinder of said movable section and dividing said cylinder into upper and lower chambers, a fluid connection between the lower chambers of said stationary and movable sections, additional fluid connections leading from the upper chamber of said stationary section to the annular chambers of said stationary and movable sections, an apertured portion forming a passage connecting the annular and upper chambers of said movable section, and means for connecting a source of fluid pressure to the lower and annular chambers of said stationary section, whereby fluid pressure may be selectively applied to either the upper or lower sides of said pistons.

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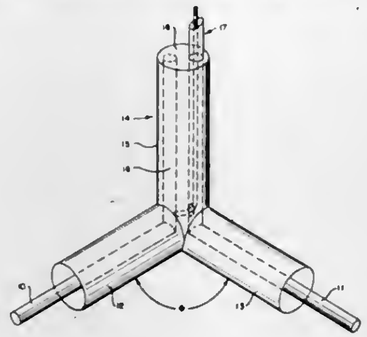
2,646,505

## BROAD BAND BIDIRECTIONAL ANTENNA

**Andrew Alford, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War**

**Application March 1, 1946, Serial No. 651,316**
**2 Claims. (Cl. 250—33.51)**

1. A broad band plane polarized generally bidirectional bent sleeved dipole antenna for producing two main lobes of radiation in opposite directions with some radiation to the sides including a first radiator having a cylindrical shape with a length substantially equal to one fourth of a wavelength corresponding to the midpoint of the operating frequency band, a second radiator physically similar to said first radiator oriented with respect to said first radiator so that the longitudinal axes of said first and second radiators intersect to form a V, the included angle of said V being substantially 100 degrees, a first tubular sleeve having a length substantially equal to one eighth of a wavelength corresponding to the midpoint of the operating frequency band enclosing a portion of and insulated from said first radiator, a second tubular sleeve physically similar to said first sleeve enclosing a portion of and insulated from said second radiator, an impedance balancing system oriented perpendicular to a plane formed



by said radiators comprising a tubular metallic sheath having an end plate at one end with its open end electrically connected to said sleeves, an impedance balancing conductor enclosed by said sheath electrically connected to an end of said first radiator with its other end electrically connected to said end plate, said impedance balancing conductor having a length substantially equal to one quarter of a wavelength corresponding to the midpoint of the operating frequency band, a coaxial transmission line inserted in said sheath through a hole in said end plate with its outer conductor shorted to said end plate and terminated in contact with an end of said second radiator and with the inner conductor of said coaxial transmission line terminated in contact with the juncture of said impedance balancing conductor and said first radiator.

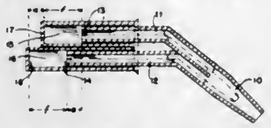
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2,646,506

## ELECTROMAGNETIC WAVEGUIDE RADIATOR

**Lan Jen Chu, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**

**Application July 9, 1945, Serial No. 604,024**
**6 Claims. (Cl. 250—33.65)**



4. In an apparatus for transmitting electromagnetic energy, the combination including two antennas in close juxtaposition terminating in a



common plane of radiation and having given focal lines and principal axes, said two antennas including means to individually radiate substantially identical beams of electromagnetic energy in substantially the same phase and the same directions in space, and two transmission lines, each of which transmits electromagnetic energy from a common source to a point near the feed points of each antenna in a direction generally toward said antennas, the electrical distances from said source to said two antennas and back to said source through said transmission lines differing by a half wavelength of said energy so that reflections from said two antennas arrive at said common source in phase opposition, said two antennas being displaced from one another by an amount such that their focal lines are displaced from one another in the direction of the principal axes of said antennas by a distance substantially equal to a quarter wavelength of said energy, whereby energy from said two transmission lines upon being radiated by said two antennas arrives at said plane of radiation in phase.

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2,646,507

## ANTENNA

**Ernest A. Martinelli, Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**

**Application August 1, 1945, Serial No. 608,293**
**7 Claims. (Cl. 250—33.65)**



3. In an antenna system: a reflecting element having a plurality of reflecting surfaces; said reflecting surfaces having focal points which are displaced with respect to each other; and a directional radiating element disposed relatively closer to a selected one of said focal points than to the others, and having its radiation pattern overlapping said reflecting surfaces and illuminating one more intensely than the others.

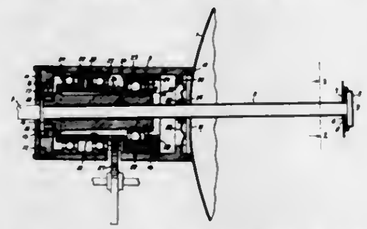
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2,646,508

## NUTATING ANTENNA

**Benjamin J. Fisher, Jr., Utica, N. Y., assignor to General Electric Company, a corporation of New York**

**Application October 26, 1945, Serial No. 624,779**
**6 Claims. (Cl. 250—33.65)**



1. In an antenna of the type having a stationary reflector having an axis, a section of wave guide extending through said reflector, and means for nutating said section about said axis comprising, means for maintaining one end of said guide substantially stationary with respect to said axis, means for preventing rotation of said one end about said axis, means eccentric to said axis surrounding said guide at a point spaced from said one end, means for rotating said last means, and rotatable means supporting said guide within said eccentric means.

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2,646,509

## PIEZOELECTRIC CRYSTAL OSCILLATOR

**Wilfrid Sinden Mortley, Great Baddow, Chelmsford, England, assignor to Marconi's Wireless Telegraph Company Limited, London, England, a company of Great Britain**

**Application May 1, 1950, Serial No. 159,210**
**In Great Britain March 30, 1949**
**6 Claims. (Cl. 250—36)**



1. In a piezoelectric crystal oscillator arrangement, a piezoelectric crystal, a maintaining valve therefor including at least a cathode, a grid and an anode electrode, a line having an electrical length of three-quarters of the operating wave length, means coupling said crystal to one end of said line, a connecting point on said line at the other end thereof, a connecting point on said line at a quarter of a wave length from said crystal and means coupling the anode of the valve to one of said connecting points and means coupling the grid of said valve to the other of said connecting points.

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2,646,510

## SYSTEM FOR SYNCHRONIZING SERIES OF RECURRING PULSE EMISSIONS

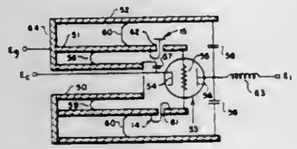
**Glenn H. Musselman, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Original application June 13, 1945, Serial No. 599,163. Divided and this application September 18, 1945, Serial No. 617,146**
**10 Claims. (Cl. 250—36)**



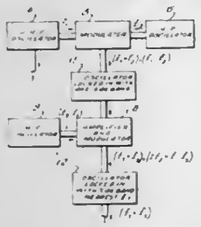
1. A means for maintaining a recurring series of pulse emissions from a first radio transmitter in a known time relation with a similarly recurrent series of pulse emissions from a second radio transmitter comprising, means for generating a timing wave to control the recurrence rate of said first series of pulse emissions, means for producing a series of pairs of pulses of the same recurrence rate as said first pulse emissions, each pair of pulses leading the corresponding pulse of said first series of pulse emissions by said known time interval, and means responsive to the deviation of said pair of pulses from coincidence with the corresponding pulse of said second series of pulse emissions to control the frequency of said timing wave generating means to reduce said deviation.

2,646,511
**ELECTRICAL COUPLING STRUCTURE**
George E. Hulstede, Belmont, Calif., assignor to the United States of America as represented by the Secretary of War
Application March 4, 1946, Serial No. 651,940
5 Claims. (Cl. 250—36)



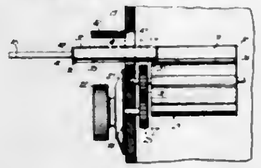
1. In a coaxial line oscillator for generating radio frequency energy and including two coaxial resonant lines having a common metallic member, a plurality of inductive probes spaced symmetrically around the circumference of said metallic member and each extending through said metallic member to form a loop on each side thereof, and a plurality of capacitive probes spaced symmetrically around the circumference of said metallic member and each extending through said metallic member to form a loop on one side thereof, each of said capacitive probes being terminated by a metallic disc on the opposite side of said member, said probes serving to provide feedback between said lines.

2,646,512
**OSCILLATION GENERATOR**
Russell H. Varian, Cupertino, William W. Hansen, Stanford University, and John R. Woodyard, Berkeley, Calif., assignors to The Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif., a corporation of California
Original application September 30, 1941, Serial No. 412,918. Divided and this application December 18, 1947, Serial No. 792,402
5 Claims. (Cl. 250—36)



1. Apparatus for generating two high frequency voltages having fixed stabilized frequency difference therebetween comprising means for generating an ultra high frequency voltage, means for mixing said frequency voltage with a lower stabilized frequency, means for selecting a desired side band of the resulting modulation product comprising an oscillator locked in which said side band, means for mixing said selected side band with another frequency voltage that is slightly different from one of the former frequency voltages, and means connected to said mixing means for selecting a desired side band of the output of said second mixing means.

2,646,513
**TELEVISION TUNER**
Frederick J. Marco, Des Plaines, Ill.
Application January 24, 1950, Serial No. 140,332
2 Claims. (Cl. 250—40)



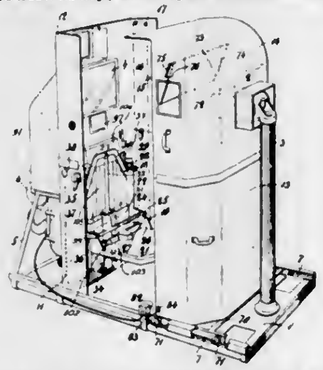
1. In a television receiver having an enclosing housing, the combination of a channel selecting tuning apparatus in said housing comprising a rotatable turret having a plurality of sockets spaced around its periphery, said sockets having entrance openings in one end of said turret, channel selecting tuning cartridges of long, narrow form adapted to be inserted endwise into said sockets through said entrance openings, the rotary step-by-step motion of said turret carrying each of said sockets into a cartridge receiving position where a cartridge can be inserted into that socket, and also into a channel selecting position where the cartridge in that socket is operative to effect and complete a channel selection, each of said tuning cartridges having enclosed tuning inductances and terminal contacts therefor arranged longitudinally along an exterior surface of the tuning cartridge, coacting keying surfaces in said sockets and on said cartridges for locking said cartridges in proper position in said sockets with said terminal contacts projecting substantially peripherally from the turret, a tuning knob operable from the exterior of said housing for rotating said turret to carry each of its sockets into said cartridge receiving position and into said channel selecting position, relatively stationary circuit completing contacts in said housing adapted to be engaged by the terminal contacts of said tuning cartridges for completing channel selecting circuits when each tuning cartridge is moved into the channel selecting position by rotation of said turret, and an access opening in said housing aligned with said cartridge receiving position of said turret and with the socket entrance opening in the end of said turret then in registry with said cartridge receiving position, through which access opening said tuning cartridges can be inserted endwise into and removed from said sockets, said access opening being relatively small and serving to guide the inserted cartridge endwise into the socket in said cartridge receiving position, said cartridge receiving position being separate from said channel selecting position so that when the cartridges are being inserted into said sockets they will not at that time encounter said stationary contacts.

2,646,514
**ROENTGEN APPARATUS**
Kaj Wilhelm Walter Noschis, Stockholm, Sweden, assignor to Georg Schonander, Grondal, Sweden, a company of Sweden
Application May 12, 1948, Serial No. 26,698
In Finland May 12, 1947
12 Claims. (Cl. 250—50)

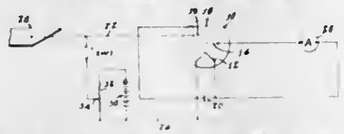
1. A patient-supporting device for roentgenography comprising a vertically-movable platform for supporting and adjusting the vertical position of the patient to be roentgenographed, a counterweight connected with said platform and arranged normally to move said platform upwardly



but to permit downward movement of the platform under the weight of the patient, a speed controlling member, and means for arresting the platform at a desired level when the platform moves downwardly, said speed controlling member comprising a piston connected to said platform and a cylinder to receive said piston, there being an enclosure in said cylinder limited at one side by said piston, and an outlet in communication with said enclosure.



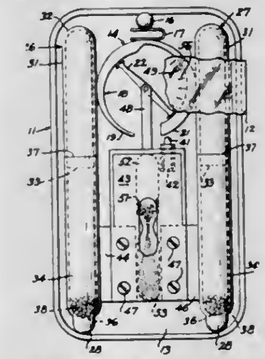
2,646,515
**DIRECT CURRENT AMPLIFIER**
Leslie Lynch, Bell, Calif., assignor, by direct and mesne assignments, of twenty-one per cent to Ralph E. Bletcher, three per cent to Pearl Bletcher, sixteen per cent to Hazel E. Skinner, twenty-two and one-half per cent to William G. Porter, and seven and one-half per cent to Irving A. Ward
Application April 20, 1950, Serial No. 157,006
22 Claims. (Cl. 250—83.6)



4. In a direct current amplifier, a vacuum tube having a cathode, a first grid, a second grid and a third grid, said second grid being positioned in an electrically balanced position between said first and third grids, a battery connected in parallel with said cathode for heating the cathode, an output circuit connected between the positive terminal of the said battery and the said first grid, said output circuit being of low direct current impedance, a connection between the said third grid and the negative terminal of the said battery, means for applying an initial voltage to said second grid whereby the current flow through the said output circuit is initially controlled and additional means for varying the voltage on the said second grid.

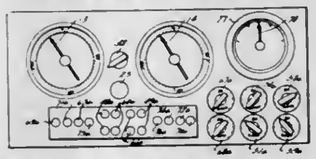
2,646,516
**IONIZATION RESPONSIVE INSTRUMENT**
Rudolf Futterknecht, Stuttgart, Germany, assignor to Nassau Distributing Co., Inc., New York, N. Y., a corporation of New York
Application August 13, 1951, Serial No. 241,620
In Germany August 25, 1950
20 Claims. (Cl. 250—83.6)

1. In an ionization-responsive instrument, in combination, an indicating device having a pair of electrodes separated by an ionizable medium, said device including means for indicating a charge present in said electrodes, a charge generator conductively connected to one of said electrodes, said generator being adapted to assume two different positions and to apply a respective one of two different potentials to said one electrode in each of said positions, and



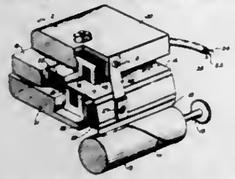
short-circuiting means coupled with said generator and conductively interconnecting said two electrodes in one but not in the other of said positions, whereby the difference between said two potentials will be developed across said electrodes upon return of said generator from said one to said other position.

2,646,517
**LOW-FREQUENCY OSCILLATOR AND PHASE METER**
Walter J. Hirtreiter, Buffalo, N. Y., assignor to the United States of America as represented by the Secretary of the Air Force
Application August 12, 1952, Serial No. 304,027
12 Claims. (Cl. 307—106)



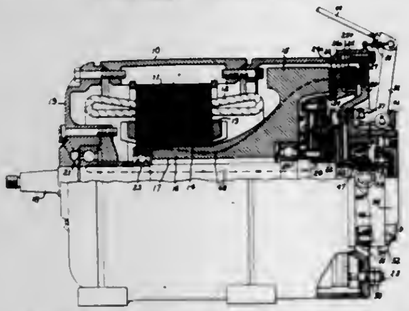
1. Test apparatus comprising first and second test signal generators, each of said generators having an input circuit, an output circuit and a rotatable shaft and operating upon application of an alternating voltage of constant amplitude and frequency to said input circuit and a constant speed of rotation to said shaft to generate in said output circuit an alternating test voltage of the same frequency as said input voltage and the amplitude of which cyclically varies at a period equal to the period of shaft rotation and long relative to the period of said alternating voltage, means for energizing the input circuits of said generators with a common alternating voltage, means for rotating the shaft of the first generator at a constant relatively low speed, a one to one coupling between the shaft of said first generator and the shaft of said second generator, said coupling containing means for adjusting the relative angular positions of the two shafts, means for applying the output of said first generator to the input of an electrical network to be tested, means for adjusting the amplitude of the output of the second generator, and means for indicating the difference between the output of network and said adjusted output.

2,646,518
**FACSIMILE RECORDING APPARATUS**
Russell G. Thompson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 28, 1948, Serial No. 12,077
4 Claims. (Cl. 310—21)



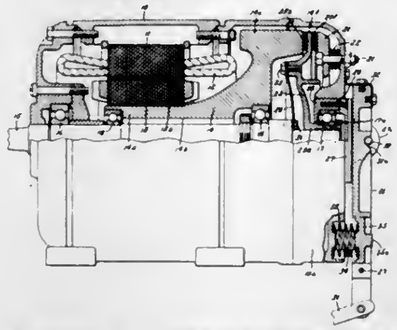
4. An electromagnetic driver for facsimile apparatus comprising a frame including a pair of magnetizable yoke members and a permanent magnet arranged therebetween, a pair of opposed pole pieces arranged on each yoke member for forming an air gap, and for dividing and directing the magnetic flux through the air gap, a magnetizable armature arranged in the air gap and coextensive therewith, said armature being tapered along its length to provide a cross section approaching the shape of a cantilever beam of uniform strength and being mounted at its thicker end in cantilever fashion, a pair of coils poled to have opposite magnetic effect surrounding the armature parallel to the width thereof and between the pole pieces, and a printing bar oscillatably mounted at one end on one of the yoke members and operatively connected at its other end to the thinner end of the armature for movement thereby.

2,646,519
**DYNAMOELECTRIC MACHINE CLUTCH AND BRAKE**
Irving Kalikow, Swampscott, and Lee E. Hildebrand and Alan F. Lukens, Marblehead, Mass., assignors to General Electric Company, a corporation of New York
Application September 30, 1950, Serial No. 187,808
6 Claims. (Cl. 310—76)



1. A dynamoelectric machine clutch and brake device comprising a dynamoelectric machine, a rotatable member connected to be directly driven by said dynamoelectric machine and having a radially extending face, an outer housing for said device, a ring member having a radially extending face axially spaced from said rotatable member face and secured to said housing to be torsionally stationary with respect thereto, a drive shaft extending through said dynamoelectric machine and said rotatable member and loosely journalled therein and also journalled in said housing, a brake wheel having a clutch facing arranged adjacent said rotatable member face and having a brake facing arranged adjacent said ring member face, at least one flexible diaphragm member secured adjacent its outer periphery to said brake wheel and secured adjacent its inner periphery to be rotatable with said drive shaft for mounting said wheel rigid torsionally while movable axially with respect to said shaft, spring means for moving said brake wheel axially to engage one of said facings with one of said faces, hook means opposed by said spring means and for moving said wheel axially to engage the other of said facings with the other of said faces, and lever means for operating said hook means.

2,646,520
**CLUTCH AND BRAKE MECHANISM FOR DYNAMOELECTRIC MACHINES**
Albert H. Labastie, West Medford, Mass., assignor to General Electric Company, a corporation of New York
Application November 2, 1951, Serial No. 254,523
2 Claims. (Cl. 310—76)



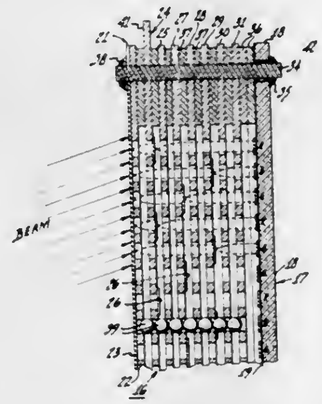
1. A clutch and brake mechanism for a dynamoelectric machine having a housing, a stator core, a rotor core, and a flywheel having a portion within said rotor core and a portion extending outwardly therefrom and presenting a radially extending annular face axially spaced from a radially extending annular face of said housing, said mechanism having an axially stationary rotatable output shaft journaled within said housing and within said flywheel, an annular brake wheel slidable upon a portion of said output shaft, said brake wheel having a portion disposed between said radially extending annular faces on flywheel and housing to selectively engage one or the other for selectively effecting clutch action and brake action, a dished washer type spring material member secured adjacent one of its peripheries to said brake wheel and secured adjacent another of its peripheries to said shaft for rotatably driving said axially stationary shaft from said brake wheel and simultaneously exerting axial thrust on said wheel with respect to said axially stationary shaft to provide one of said actions, and lever means for pulling said wheel axially against the force of said dished washer spring for effecting the other of said actions.

2,646,521
**COLOR TELEVISION PICTURE TUBE**
Jan A. Rajchman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 23, 1950, Serial No. 151,397
17 Claims. (Cl. 313—68)

1. A color-television tube comprising an image surface consisting, effectively, of a multiplicity

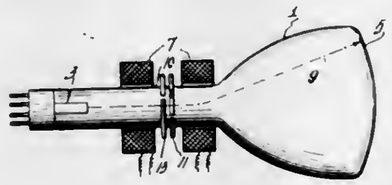


of duplicate groups of sub-elemental areas of different color-response characteristics, a source of beam-electrons directed toward said surface, a control assembly including at least two apertured plates mounted in successive array adjacent to said surface with the apertures of said plates in register with individual ones of said



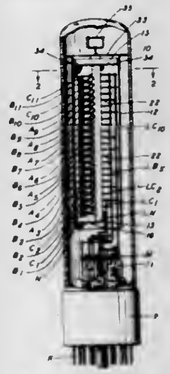

sub-elemental color-areas, means including one of said apertured plates for dividing said beam into a plurality of sets of electron-jets, each set individual to surface areas of a particular color-response characteristic, and means including another of said apertured plates for controlling a predetermined one of said sets of jets.

2,646,522
**CATHODE-RAY CENTERING**
Hubert R. Shaw, Drexel Hill, Pa., and Maximilian J. Obert, North Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 29, 1948, Serial No. 35,828
3 Claims. (Cl. 313—77)



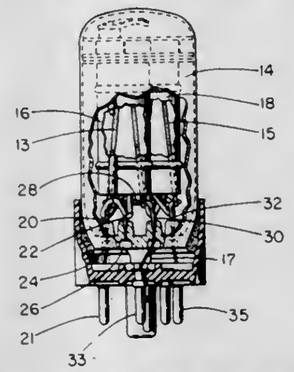
1. A cathode ray deflecting beam centering device for employment with a cathode ray tube and wherein said cathode ray tube includes an electron gun, cathode ray beam deflecting means, and a screen, said cathode ray beam centering device comprising in combination a pair of similar and substantially complete ring magnets of approximately equal magnetic strength, each positioned closely adjacent to each other side by side and having only two different magnetic poles, said magnets rotatable with respect to said cathode ray tube and with respect to each other, each of said ring magnets circling said cathode ray beam path.

2,646,523
**MULTICATHODE GASEOUS DISCHARGE DEVICE**
Hans L. von Gugelberg, Murray Hill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 28, 1950, Serial No. 141,123
15 Claims. (Cl. 313—196)



1. A gaseous discharge pulse stepping device comprising a plurality of cathodes, an insulator support, means supporting said cathodes adjacent one face of said support, said means extending through said support, a plurality of leads extending adjacent the opposite face of said support and connected to said means, and an anode encompassing said cathodes, support and leads, said anode being closed at its one end and partially closed at its other end.

2,646,524
**ELECTRON TUBE**
David A. Sokolov, Lynn, Mass., assignor to Hytron Radio & Electronics Co., Salem, Mass., a division of Columbia Broadcasting System, Inc., a corporation of New York
Application July 5, 1952, Serial No. 297,217
7 Claims. (Cl. 313—245)

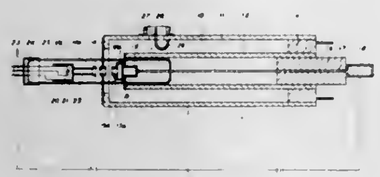



7. An electron tube comprising, an evacuated glass envelope having a button forming one end thereof, said button stem including a plurality of leads sealed through a glass disk, an external cavity being formed in said glass disk about each of said leads, a first group of said plurality of leads extending beyond the external surface of said disk, the remainder of said leads being terminated

substantially at the bottom surface of their respective cavities, a tube base attached to said envelope and having a plurality of connecting pins arrayed thereabout, said first group of leads being arranged in said stem and connected to those of said pins in a manner providing optimum spacing between each of said first group of leads and each of those of said remainder.

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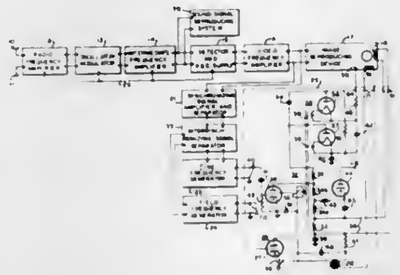
**2,646,525**
**OSCILLATOR**
**George E. Hulstede, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War**
**Application August 1, 1945, Serial No. 608,320**
**2 Claims. (Cl. 315—5)**



1. A reflex velocity-modulated electron oscillator having first and second component units adapted to be engaged together, said first unit comprising: a cylindrical evacuated envelope containing, in spaced axial succession, an electron gun for generating a beam of electrons, a first apertured disc, a second apertured disc, the distance between said first and second discs being less than one-half the wavelength corresponding to the highest frequency within the range of operation of said reflex electron oscillator, said first and second discs being circular in shape and radially extending without said envelope, the diameter of said first disc being larger than that of said second disc, said second disc comprising a cylindrical element of a given diameter axially aligned with said electron gun, said cylindrical element having an outwardly extending flange at one end and a base at the opposite end with an opening whose diameter is less than said given diameter, an electron repeller, said repeller being disposed within said cylindrical element and having the shape of a hollow cylinder with a central aperture therein, the diameter of said repeller being less than said given diameter, said repeller providing a maximum concentration of returning electrons, and an axial central conductor having one end attached to said repeller within said envelope and having its other end extending axially without said envelope; a dielectric member surrounding said other end of said central conductor; a terminal cap connected to said other end of said conductor and to said dielectric member for providing a connection to which a potential that is negative with respect to said dises may be applied to said repeller; and a hollow cylinder coaxial with said central conductor and forming an integral part with the flange of said second disc, said cylinder having a uniform cross-section with a diameter substantially equal to that of said second disc; and said second unit comprising: a hollow cylinder coaxial with and disposed about the first-named cylinder, having a uniform cross-section with a diameter substantially equal to that of said first disc, and being in contact with said first disc, said cylinders forming a single cavity resonator therebetween such that the effective axial length of said resonator with respect to the remaining resonator dimensions is large and is the main determinant of the frequency of oscillation of said reflex oscillator; a loop probe inserted within the second-named cylinder to extract energy from said cavity resonator; and an annular plunger slidably engaging both said cylinders within said resonator, said plunger serving to linearly vary the effective axial length of said cavity resonator and thus similarly vary the frequency of said reflex oscillator.

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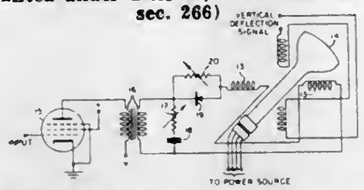
**2,646,526**
**SYSTEM FOR GENERATING SCANNING CURRENTS**
**Alan Hazeltine, Maplewood, N. J., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois**
**Application March 8, 1952, Serial No. 275,602**
**15 Claims. (Cl. 315—20)**



1. A system for generating a periodic scanning current for a scanning winding of a cathode-ray tube comprising: an essentially inductive load circuit including an autotransformer having a continuous winding comprising a plurality of winding portions and including a circuit for coupling a scanning winding to one of said winding portions; a tetrode having input electrodes, output electrodes effectively coupled to said load circuit, and an electrode intermediate said output electrodes; a condenser of low impedance connected to said output electrodes through said continuous winding; a circuit for applying to said input electrodes a periodic voltage to develop said scanning current in the scanning winding when it is coupled to said load circuit; a unidirectional voltage source and a diode connected to said output electrodes through one of said winding portions remote from said condenser; a voltage-generating circuit including said source, said diode, one of said winding portions, and said condenser for developing thereacross during normal operation of said system a unidirectional voltage substantially higher than that of said source; and a circuit, including an electron-tube repeater having anode-cathode electrodes in one signal-translating path and serially connected in said last-mentioned circuit and normally requiring across said anode-cathode electrodes a voltage exceeding that of said source, connecting said condenser to said intermediate electrode for applying thereto a portion of said developed voltage representative of the normal voltage of said intermediate electrode, whereby, upon failure of said system to generate a normal scanning current, the voltage of said intermediate electrode drops to an abnormally low value.



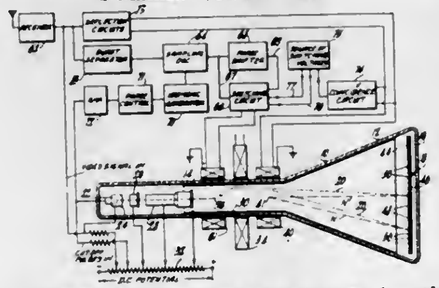
**2,646,527**
**SYMMETRICAL SWEEP CENTERING CONTROL**
**Robert H. Mathes, Washington, D. C.**
**Application September 23, 1949, Serial No. 117,321**
**9 Claims. (Cl. 315—24)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A magnetic deflection circuit for an electron beam tube comprising, a deflection coil, current supply means providing a cyclic sweep current signal of variable amplitude, and a non-linear impedance path including a unilateral impedance element and a linear impedance element, said path serially connected between the current supply means and the deflection coil to supply the sweep current signal to the deflection coil through different impedance magnitude for opposing half cycles of the sweep current.

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**2,646,528**
**APPARATUS FOR REPRODUCING IMAGES IN COLOR**
**Peter H. Werenfels, Lawrenceville, and James E. Eckert, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application October 11, 1951, Serial No. 250,868**
**2 Claims. (Cl. 315—24)**

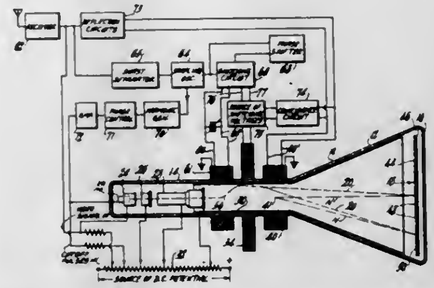


1. Apparatus for reproducing images in color comprising in combination an electron gun adapted to project a beam of electrons, a target positioned so as to intercept said electrons, said target also being adapted to reproduce one of several different primary colors depending on the direction of approach of the beam at any point of the target, means adapted to cause said beam to rotate in a given direction about its normal position so as to continuously change the direction of approach to any part of said target, and means for reversing the direction of rotation of said beam during desired intervals, and means adapted to cause said rotating beam to scan a raster on said target.

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**2,646,529**
**APPARATUS FOR REPRODUCING IMAGES IN COLOR**
**Peter H. Werenfels, Lawrenceville, and James E. Eckert, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application October 11, 1951, Serial No. 250,870**
**3 Claims. (Cl. 315—24)**

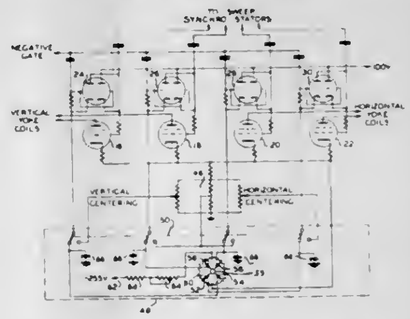
1. Apparatus adapted to establish a rotating magnetic field comprising in combination an input terminal to which a desired alternating voltage may be applied, a first pair of coils having one end coupled to said input terminal, and the other end grounded, a condenser in parallel with said first pair of coils, a second pair of coils having one end grounded, a condenser in parallel with said second pair of coils, said condensers



having such capacitance that the parallel circuits formed by them and the coils are resonant at substantially the frequency of the alternating voltage applied to the input terminal, a phase shifter coupled between said input terminal and the ungrounded end of said second pair of coils, said coils being critically coupled together.

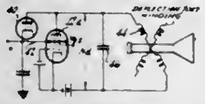
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**2,646,530**
**PLAN POSITION INDICATOR SYSTEM**
**Warren F. Goodell, Jr., Urbana, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application September 14, 1945, Serial No. 616,398**
**7 Claims. (Cl. 315—24)**



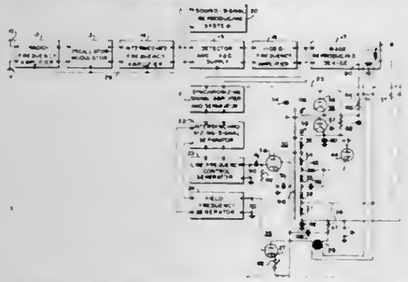
1. An auxiliary polar-coordinate offset center control for a plan position indication system including a cathode ray tube, stationary deflection coils, a sweep wave generator, a synchro, driver tubes energized from the synchro and connected to the deflection coils, clamping circuits, and a centering network, said auxiliary offset center control comprising a sine potentiometer with movable arms connected to the clamping circuits, a source of potential for the potentiometer, a control handle for adjusting the angle of rotation of the potentiometer and consequently the angular direction of offset, means for varying the aforesaid potential and consequently the distance of center offset, and switch means to connect the plan position indication circuits to either the auxiliary offset center control or to said centering network.

2,646,531
**ELECTRON OSCILLATOR CIRCUIT**
**Lawrence Joseph Giacoletto, Eatontown, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application February 13, 1951, Serial No. 210,709**
**50 Claims. (Cl. 315—27)**



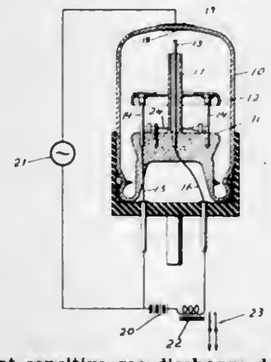
1. In an electronic oscillator circuit the combination of, a dynatron type vacuum tube having at least a dynode, collector electrode, control electrode and cathode, an input circuit connected between said control electrode and said cathode, an output circuit connected between said dynode and said cathode, means for applying operating potentials to said dynode and said control electrode such that said dynatron characteristic represents a predetermined value of negative resistance reflected in said output circuit, a load impedance serially connected in said output circuit between said dynode and said cathode said load impedance having a value in ohms at least three times greater than said predetermined negative resistance value of said dynatron.

2,646,532
**SYSTEM FOR GENERATING A PERIODIC SCANNING CURRENT**
**Alan Hazeltine, Maplewood, N. J., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois**
**Application March 8, 1952, Serial No. 275,601**
**21 Claims. (Cl. 315—27)**



1. A system for generating a periodic scanning current for a scanning winding of a cathode-ray tube comprising: a primarily inductive load circuit including an autotransformer having a magnetic core and a plurality of winding portions and including a circuit for coupling a scanning winding thereto; an energy-storage device; an electron tube having control electrode-cathode input electrodes and having anode-cathode output electrodes coupled to said load circuit through a series circuit including a first of said winding portions and said energy-storage device; a circuit for applying to said input electrodes a control voltage for periodically rendering said tube conductive to develop said scanning current in a scanning winding coupled thereto; a voltage-generating circuit including said energy-storage device, a unidirectional voltage source, a rectifier device, a low-impedance condenser, and a second of said winding portions and cooperating with said tube to carry at least a portion of said scanning current and to develop across said energy-storage device a unidirectional voltage substantially higher than that of said source; a direct-current output circuit connected to said energy-storage device; and a circuit including said unidirectional voltage source, said rectifier device, an inductor, and a third of said winding portions having a greater number of turns than said second winding portion for supplying a direct component of current which includes the direct component of current of said output electrodes; said first winding portion being at least in part distinct from said third winding portion and the product of the effective number of turns of said third winding portion and said first-mentioned direct component of current being approximately equal to the product of the effective number of turns of said first winding portion and said direct component of output electrode current, and said third winding portion being wound and connected in such sense relative to said first winding portion that said direct components of current have opposite directions relative to said magnetic core.

2,646,533
**LIGHT SENSITIVE GASEOUS ELECTRON DISCHARGE DEVICE AND CIRCUIT THEREFOR**
**Gerald Glen Carne, Rockaway, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application July 27, 1949, Serial No. 107,044**
**4 Claims. (Cl. 315—150)**

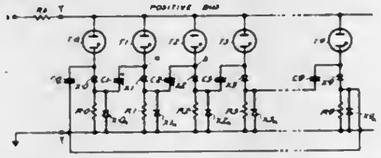


1. A light sensitive gas discharge device, comprising a cold cathode and an anode mounted therein and remote from said cathode, a dielectric member having at least a portion thereof extending adjacent said anode, a photo emissive member on the surface of said dielectric member disposed toward and close to said anode, and a conductive member on the opposite surface of said member.

2,646,534
**ELECTRONIC COUNTER**
**John C. Manley, Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States**
**Application October 20, 1950, Serial No. 191,306**
**15 Claims. (Cl. 315—166)**

1. In an impulse controlled counting device or the like, a source of electrical potential, a chain of similar discharge circuits, each said circuit including a discharge device having one electrode connected to one side of the source, a connection from the opposite electrode of the discharge device to the other side of the source, said connection including a unidirectional device having low forward and high inverse impedance, means for producing a change in the potential applied to said discharge circuits for each control impulse, and an impulse transferring means linking each discharge circuit to the adjacent discharge circuit, said impulse transferring means including a capacitor connected to opposite sides of the respective unidirectional devices of the adjacent discharge circuits.



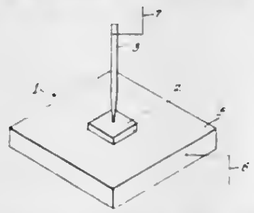


2,646,535
**ELECTRICAL COIL**
**Almy D. Coggeshall, Schenectady, and Andrew H. Caldwell, Ballston Lake, N. Y., assignors to General Electric Company, a corporation of New York**
**Application September 28, 1949, Serial No. 118,224**
**5 Claims. (Cl. 317—226)**



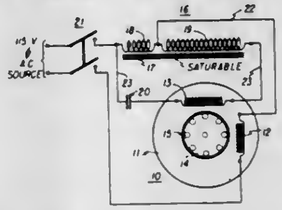
2. A plastic enclosed electrical coil comprising a plurality of turns of an electrical conductor forming an elongated coil, a mat of fibrous glass reinforcing material perimetrically positioned around said turns, and a slightly flexible mass of material comprising the product of polymerization of a mixture of diethylene glycol maleate, methyl methacrylate, diallyl phthalate and styrene embedding said conductor and said reinforcing material and substantially filling all interstices in said reinforcing material whereby a unitary structure substantially free of voids is formed.

2,646,536
**RECTIFIER**
**Seymour Benzer, West Lafayette, and Karl Lark-Horovitz, Lafayette, Ind., assignors to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana**
**Application November 14, 1946, Serial No. 709,742**
**29 Claims. (Cl. 317—236)**



1. A rectifier comprising a semi-conductor and a pair of metal electrode elements in electrical contact therewith, one of said electrode elements contacting said semi-conductor in substantially punctiform fashion for producing a rectifying contact and being welded to said semi-conductor.

2,646,537
**INDUCTION MOTOR OF THE CAPACITOR TYPE**
**Alexander J. Lewus, Cicero, Ill.**
**Application September 13, 1951, Serial No. 246,483**
**8 Claims. (Cl. 318—221)**

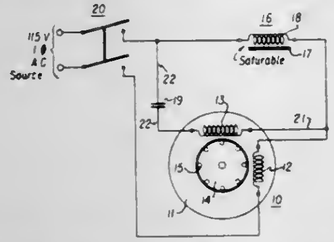



1. In combination, an induction motor including a stator provided with angularly displaced main and auxiliary windings and a rotor provided with a squirrel-cage winding, a transformer including a saturable magnetic core provided with primary and secondary windings, a common connection between one terminal of said primary winding and one terminal of said secondary winding and one terminal of said main winding, a capacitor, and a fixed connection bridging said capacitor and said auxiliary winding in series relation across the other terminal of said primary winding and the other terminal of said secondary winding, said other terminal of said primary winding and the other terminal of said main winding being connectible to a source of single phase alternating current supply having a substantially sinusoidal wave form to effect starting and running of said rotor, the starting and running impedances of said main winding being respectively low and high with respect to each other so that said magnetic core is respectively saturated and unsaturated by the starting and running currents traversing said primary winding, said starting and running currents traversing said primary winding respectively inducing peaked starting and substantially sinusoidal running voltages in said secondary winding, the starting and running voltages induced in said secondary winding being respectively high and low with respect to each other and the starting and running impedances of said auxiliary winding being respectively low and high with respect to each other so that the starting and running currents traversing said capacitor and said auxiliary winding are respectively high and low with respect to each other, said capacitor effecting a substantial dephasing of the starting current traversing said auxiliary winding with respect to the starting current traversing said main winding so as to produce a substantial starting torque between said stator and said rotor.

2,646,538
**INDUCTION MOTOR OF THE CAPACITOR TYPE**
**Alexander J. Lewus, Cicero, Ill.**
**Application September 28, 1951, Serial No. 248,730**
**8 Claims. (Cl. 318—221)**

1. In combination, an induction motor including a stator provided with angularly displaced main and auxiliary windings and a rotor provided with a squirrel-cage winding, a reactor including a saturable magnetic core provided with a winding, a common connection between one terminal of said reactor winding and one terminal of said auxiliary winding and one terminal of said main winding, a capacitor, and a fixed connection including said capacitor between the other

terminal of said auxiliary winding and the other terminal of said reactor winding, said other terminal of said reactor winding and the other terminal of said main winding being connectible to a source of single phase alternating current supply having a substantially sinusoidal wave form to effect starting and running of said rotor, the starting and running impedances of said main winding being respectively low and high with respect to each other so that said magnetic core is respectively saturated and unsaturated by the starting and running currents traversing said reactor winding, said starting and running currents traversing said reactor winding respectively




producing peaked starting and substantially sinusoidal running voltage drops thereacross that are respectively high and low with respect to each other and the starting and running impedances of said auxiliary winding being respectively low and high with respect to each other so that the starting and running currents traversing said capacitor and said auxiliary winding are respectively high and low with respect to each other, said capacitor effecting a substantially dephasing of the starting current traversing said auxiliary winding with respect to the starting current traversing said main winding so as to produce a substantial starting torque between said stator and said rotor.

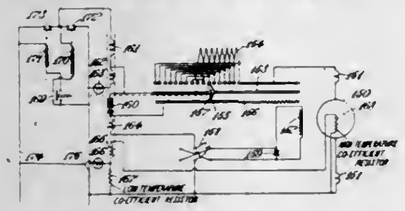
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**2,646,539**

## ELECTRIC MOTOR CONTROL SYSTEM

**Alfred Erwin Reginald Arnot, Basingstoke, England, assignor to Emmanuel Kaye and John Reginald Sharp, both of Basingstoke, Hampshire, England**

**Application April 14, 1949, Serial No. 87,530**
**In Great Britain April 16, 1948**
**13 Claims. (Cl. 318—259)**



1. A traction motor control installation comprising in combination with a traction motor having a shunt field winding, automatic regulating means for the shunt field of the motor to vary automatically the field strength of the shunt field winding as the load on the motor varies, a variable starting resistance in series with the motor armature, a main switch for connecting the motor and starting resistance to a source of electric current, manually operated control means having an initial movement to cause the main switch to be closed and further movement to determine the rate of cutting out of the variable starting resistance, and a variable field resistance connected in parallel with the automatic regulating means for the shunt field for reducing the shunt field current and operatively connected to the manually operated control means to be actuated thereby to prevent the automatic regulating means for the shunt field winding from decreasing the field strength of the shunt field winding until the starting resistance has been substantially cut out and to increase said field resistance by further movement of said control means after the starting resistance has been cut out.

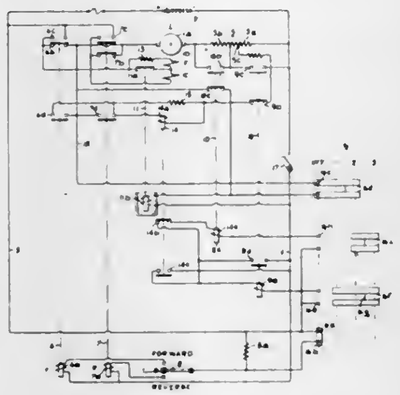
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**2,646,540**

## MOTOR CONTROL SYSTEM

**Robert B. Taylor, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application May 15, 1951, Serial No. 226,471**
**7 Claims. (Cl. 318—262)**



2. A control system comprising in combination a pair of supply conductors, a direct current electric motor, a directional switch having forward and reverse operating positions, forward and reverse directional contactors selectively operable in response to selective operation of said directional switch to said operating positions to connect said motor to said supply conductors for rotation in a selected direction, a current limiting resistor connected in the armature circuit, first and second accelerating contactors for sequentially rendering portions of said resistor ineffective, a relay having an armature operated to a first position in response to the voltage drop across a portion of said armature circuit for effecting operation of said first accelerating contactor and operable to a second position in response to said operation of said first accelerating contactor to effect operation of said second accelerating contactor, and operated to said first position in response to the combined reverse polarity counter-voltage of said motor and voltage drop across said resistor at a predetermined low speed of said motor produced during deceleration in response to operation of said directional switch from one of said operating positions to the other to reverse said motor, and a time delay device on said relay responsive to operation of said first accelerating contactor for interposing a predetermined time interval between the operations of said relay armature to said first and second positions.

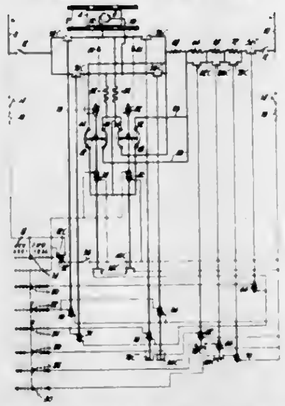


**2,646,541**

## TWO-DIRECTIONAL DYNAMIC BRAKING CIRCUIT

**Stanley J. Lesniak, Chicago, Ill.**

**Application April 11, 1952, Serial No. 281,839**
**4 Claims. (Cl. 318—368)**



1. In a dynamic braking circuit for a reversible direct current motor having an armature and a series field winding, a first relay having an opening coil, a closing coil and two sets of contacts, a second relay having an opening coil, a closing coil and two sets of contacts, a first circuit connected in parallel with said armature, said first circuit including in series a first rectifier and the closing coil of said first relay, a second circuit connected in parallel with said armature, said second circuit including in series a second rectifier and the closing coil of said second relay, said rectifiers being oppositely poled with respect to the voltage across said armature, a first closed series circuit including said first named contacts, a resistance, said armature and said field winding, and a second closed series circuit including said second named contacts, said resistance, said armature and said field winding.

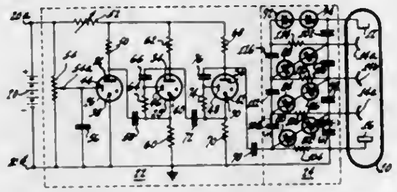
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**2,646,542**

## HIGH-VOLTAGE SYSTEM

**Kenneth Walter Robinson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application March 22, 1951, Serial No. 216,905**
**17 Claims. (Cl. 321—2)**



1. A power supply system comprising a unidirectional voltage source, a pulse generator connected to said source to convert unidirectional voltage from said source into voltage pulses, a network having a ladder-like configuration, said network including side members each comprising a plurality of serially connected capacitors, lateral members connecting said side members and comprising a plurality of resistors connected one between the junctions of each adjacent pair of capacitors in each said side member and one between the ends of said side members, bilaterally-conductive gas-filled tubes connected diagonally between the opposite ends of each adjacent pair of said resistors, and a circuit connecting said pulse generator to said network to apply pulses from said generator to said network to charge each capacitor in one of said sets to a voltage equal to the difference between the amplitude of the pulses from said source and the conduction voltage of said tubes.

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**2,646,543**

## SATURABLE REACTOR VOLTAGE REGULATION

**Albert D. Gilchrist, Lyndhurst, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio**

**Application September 30, 1950, Serial No. 187,740**
**12 Claims. (Cl. 321—16)**



1. In an electrical generating system for use on motor vehicles, an alternator having a field winding, a main rectifier, an external direct current load circuit connected with said alternator through said main rectifier, a field circuit connected with said alternator and including an auxiliary rectifier for supplying rectified curent to said field winding, a saturable reactor comprising a core having thereon a' magnetizing coil and an impedance coil, said impedance coil being located in the alternating current portion of said field circuit, a voltage regulator of the relay type having magnet coil means responsive to the operation of said alternator and also having vibratory switch contact means, a circuit for energization of said magnet coil means and said magnetizing coil from said direct current load circuit and controlled by said contact means, and a voltage divider in the last-mentioned circuit for selecting the voltage of the current supplied to said magnet coil means.

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**2,646,544**

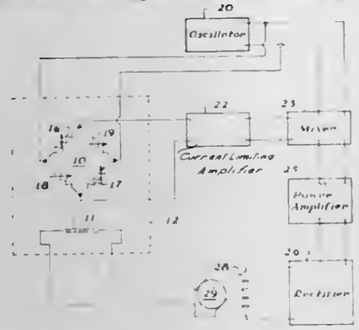
## AUTOMATIC TEMPERATURE REGULATOR

**Matthew L. Sands, Pasadena, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission**

**Application September 1, 1950, Serial No. 182,844**
**1 Claim. (Cl. 322—37)**

In a temperature control system, a Wheatstone bridge circuit having an opposed pair of high-temperature equal coefficient elements connected in series with an opposed pair of low-temperature equal coefficient elements, a source of alternating potential, means electrically connecting the source of alternating potential to two opposed junctions of the bridge, means for balancing the bridge for zero potential difference between the remaining opposed junctions of the bridge at a selected temperature, a voltage amplifier including automatic amplitude limiting means, means electrically connecting the input of said voltage amplifier across the said remaining opposed junctions of the bridge, a mixer circuit, means connecting the input of the mixer circuit to the output of said voltage amplifier and to said source of alternating potential, a power amplifier, means

connecting the input of the power amplifier to the output of the mixer circuit, rectifier means electrically connected to the output of said power amplifier, an electrical generator having a field excitation winding; means electrically connecting in series the output of said power amplifier,




said rectifying means, and said generator field excitation winding whereby said generator excitation winding causes said generator to deliver more or less current corresponding to a decrease or increase of temperature from said selected value of temperature.

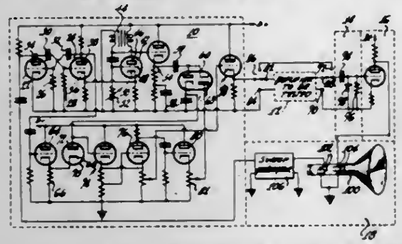
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**2,646,545**

**AMPLITUDE LINEARITY MEASUREMENT**

**Barry C. King, Jr., Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application June 26, 1951, Serial No. 233,658**
**6 Claims. (Cl. 324—57)**



2. Apparatus for determining the amplitude response characteristics of a signal transfer circuit having an input and an output section, said apparatus comprising a source of varying voltage of recurring stepwave form, means to apply recurring stepwaves from said source to said circuit input section, a differentiating network, means to connect said differentiating network to said circuit output section, a cathode ray tube having two pairs of orthogonally related beam deflection plates, an amplifier connecting said network to one of said pairs of plates, and a source of voltage connected to the other pair of plates to apply to said other plate pair a recurring beam deflection voltage of recurrence rate equal to that of said stepwave.

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**2,646,546**

**GALVANOMETER HAVING BALANCED COIL ASSEMBLY**

**Marvin E. Morrow, Tulsa, Okla.**

**Application March 30, 1951, Serial No. 218,411**
**3 Claims. (Cl. 324—97)**

1. In a vibratory assembly for galvanometers, a pair of spaced supports each having an arcuate outermost face and a flat innermost face; an elongated coil wound about the supports and engaging the arcuate faces; and an elongated, flat suspension ribbon looped about each support respectively through the coil in intersecting rela-



tionship thereto and in engagement with the flat faces, the width of said ribbons being less than the innermost width of the coil for rendering the ribbons shiftable with respect to the supports on the transverse axes of the ribbons and transversely of the longitudinal axis of the coil.

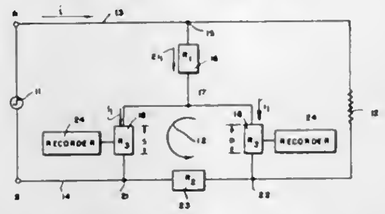
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**2,646,547**

**RECORDING WATTMETER**

**Earle C. Gregg, Jr., East Cleveland, Ohio, assignor to the United States of America as represented by the Secretary of the Navy**

**Application July 6, 1950, Serial No. 172,259**
**6 Claims. (Cl. 324—142)**




1. In combination with a power circuit, a transformer having a pair of secondary windings connected to a load, a first impedance in series connection between the secondary windings, a second impedance and two first small impedances in series relation connected across the series connected secondary windings, said second impedance being positioned between said small impedances, switching means connecting the first and second impedances in parallel, and a second small impedance in each of the leads connecting the switching means and the second impedance.

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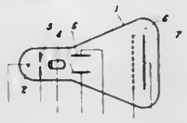
**2,646,548**

**ELECTRON TUBE CODER DEVICE**

**Jean André Ville and André Paul Pages, Paris, and Pierre Alphonse Herreng, Montrouge, France, assignors to Societe Alsacienne de Constructions Mecaniques, a corporation of France**

**Application July 9, 1949, Serial No. 103,904**
**In France July 21, 1948**
**3 Claims. (Cl. 332—11)**

1. An electron tube for use in a coder for translating an intelligence wave represented by a variable electric voltage occurring at recurring time intervals into groups of code signals, each group comprising an integer number $n$ of pulses, each pulse being of one or the other of two possible signalling conditions; said electron tube comprising a cathode emitting electrons, an electron gun for the production of an electronic beam, a control electrode for establishing or interrupting said beam, deflecting electrodes for deflecting said beam in a given direction under



the action of an external voltage, an apertured electrode disposed in the path of said beam and having a single row of solid and cut out portions extending along said given direction and numbering $2^n+(n-1)$, said solid and cut out portions being arranged in such an order that each group of $n$ consecutive solid and cut out portions is different from any other such group, and an anode for collecting the electrons of said beam which pass through the cut out portions of said apertured electrode.

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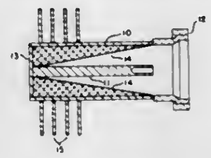


**2,646,549**

**COAXIAL LINE TERMINATING DEVICE**

**George L. Ragan, Cambridge, and John Reed, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War**

**Application January 7, 1946, Serial No. 639,640**
**1 Claim. (Cl. 333—22)**



A device for terminating a coaxial line, comprising a coaxial section having inner and outer conductors, means for short circuiting said outer conductor to said inner conductor at one end of said conductors, the other end of said conductors being adapted to be connected to said coaxial line, an energy dissipative tapered plug composed of powdered iron disposed in a binder, said plug being disposed between said outer and inner conductors with its entire outer surface secured to the inner surface of said outer conductor, said plug having one end thereof disposed at said one end of said conductors with its inner surface at its one end having a diameter equal to the outer diameter of said inner conductor, the inner surface of said plug at its other end having a diameter substantially equal to the inner diameter of said outer conductor, the thickness of said energy dissipative means varying from a maximum at said one end thereof to a minimum at said other end thereof, said plug having a length that is long relative to the wavelength of the energy to be conducted by said coaxial line, and cooling fins radially secured to said outer conductor for dissipating the heat energy generated in said energy dissipative plug.

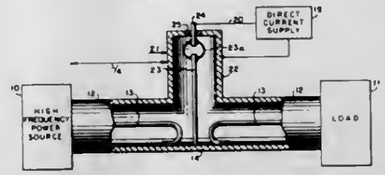
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**2,646,550**

**CONTROLLED IMPEDANCE GAS DISCHARGE DEVICE FOR MECHANICAL TRANSMISSION MEDIUMS**

**Arthur A. Varela, Alexandria, Va.**

**Application January 9, 1948, Serial No. 1,423**
**2 Claims. (Cl. 333—81)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**




1. An apparatus for controlling the transfer of electromagnetic energy through a transmission line comprising, a source of electromagnetic energy feeding one end of said line, a two electrode voltage discharge device having one electrode directly connected to one side of said line, and a variable direct current source connected between said other electrode and the other side of said line to bias said other electrode with respect to said other side of the line.

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**2,646,551**

**WAVE GUIDE VARIABLE ATTENUATOR**

**Shepard Roberts, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**

**Application February 25, 1944, Serial No. 523,885**
**7 Claims. (Cl. 333—81)**



1. An attenuator for use in a wave guide in which high frequency electric waves are progagated comprising a wave guide portion having a mode of propagation in which the maximum intensity electric vector lies in a flat plane symmetrically through and longitudinal of said guide portion, a thin, flat resistance member carried by said guide at a region where the electric vector is substantially zero, and lying generally in a plane parallel to that of the maximum intensity electric vector, and means for moving at least part of said member in a direction generally perpendicular to the maximum intensity electric vector from a region of minimum field intensity to a region of maximum field intensity

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**2,646,552**

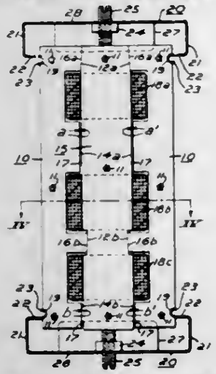
**VARIABLE TRANSFORMER**

**Guy M. Shingledecker, Tarentum, and Gene C. Catulle, Natrona Heights, Pa., assignors to Allegheny Ludlum Steel Corporation, Brackenridge, Pa., a corporation of Pennsylvania**

**Application January 27, 1950, Serial No. 140,872**
**12 Claims. (Cl. 336—133)**

1. An electrical apparatus such as a transformer which comprises, a longitudinally-extending core part having a pair of coils mounted in a spaced relationship therealong, a pair of wedge portions and a pair of planar portions on opposite sides of said core part, a pair of pole pieces adapted to be positioned on opposite sides of said core part, said pole pieces having offset

portions providing windows to receive projecting portions of said coils, each of said pole pieces having a wedge portion engaging one of the opposed wedge portions of said core part, each of said pole pieces having a planar portion constructed and arranged to be positioned by its own wedge portion and the engaging wedge portion



of said core part in a spaced relationship with respect to one of the planar portions of said core part to define an air gap therewith, and adjustable means operably connected between said pole pieces and core part and constructed and arranged to move said core part with respect to said pole pieces along the opposed wedge portions of said core part.

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**2,646,553**
**ADJUSTABLE INDUCTANCE**
**Fred W. Schmidt, Jr., Cedar Grove, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware**
**Application June 20, 1951, Serial No. 232,536**
**4 Claims. (Cl. 336—138)**



1. An adjustable inductance comprising a plurality of elongated inductive members, a bridging member supporting said inductive members in parallel spaced relationship, and a conductive member threaded through said bridging member and axially between a portion of said elongated inductive members in electrical contact therewith, said threaded member acting by axial movement when turned to change the inductance of said elongated members.

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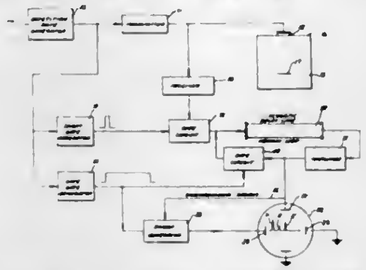
**2,646,554**
**LAMP SOCKET**
**S. Wilson Pollock, Camp Hill, Pa., assignor to Aircraft-Marine Products Inc., Harrisburg, Pa., a corporation of New Jersey**
**Application October 6, 1951, Serial No. 250,077**
**1 Claim. (Cl. 339—97)**



A lamp socket comprising a generally cylindrical metal receptacle adapted to receive the base of a lamp bulb therein, said member having extending therefrom a ferrule member connected at its bottom portion to the receptacle thereof, an insulated wire engaged in the ferrule, said ferrule member having at least one inwardly directed prong piercing the insulation and making electrical contact with the wire, a second insulated wire clamped beside said first wire in the ferrule and having a central conductor exposed at its end near the axis of said cylindrical member but with the insulation of the wire insulating said conductor from the ferrule.

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**2,646,555**
**MEANS FOR INCREASING THE BRIGHTNESS OF A CATHODE TUBE DISPLAY**
**Robert N. Strachl, Danbury, Conn., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York**
**Application August 3, 1950, Serial No. 177,357**
**1 Claim. (Cl. 340—16)**

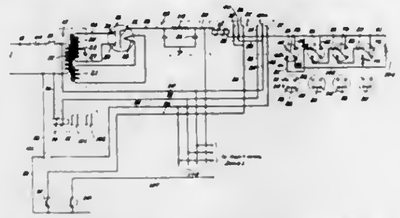


In a device of the type described, means for transmitting successive ultrasonic pulses into an object at relatively long time intervals between pulses, means for receiving reflections of each transmitted pulse, means for rendering the receiving means ineffective a relatively short time interval after the transmission of each pulse, a memory loop circuit including a time delay mechanism for introducing a delay at least equal to the length of time that said receiving means is effective, means for discharging the output of said receiver into the memory circuit whereby said output will be repeated as long as said loop circuit is effective, and means for indicating the signal voltages passing through said circuit, said last-named means comprising a cathode ray tube having vertical and horizontal plates, a free-running sweep circuit for establishing a sweep between the horizontal plates, means for rendering the sweep circuit effective in synchronism with the transmission of each pulse, means for synchronizing the sweep with the signal voltages passing through said memory circuit, the voltages in said memory circuit being applied to the vertical plates, and means for rendering the memory circuit ineffective after a predetermined time interval and before the transmission of the succeeding pulse.

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**2,646,556**
**SUPERVISED ALARM SYSTEM**
**Frank B. Allen, Towaco, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware**
**Application June 17, 1950, Serial No. 168,706**
**4 Claims. (Cl. 340—213)**

1. An electrically actuated alarm system comprising an alarm signal to indicate a predetermined condition, a trouble signal to indicate malfunctioning of the system, single relay means to close a circuit to the trouble signal for a current flow below a minimum amount and to open the trouble circuit for a current flow above the minimum amount and to close a circuit to the alarm signal for a current flow of the same polarity above a predetermined amount, a resistor in series with the relay means to provide a current flow above the minimum amount to open the trouble signal circuit, a detector connected in parallel with the resistor and responsive to a



predetermined condition to provide a current flow above the predetermined amount to close the alarm circuit, a mounting bracket for the detector carrying a pair of contacts connected in series, a base for the detector, and a second pair of contacts connected in series and carried by the base, whereby when the detector is in position on the mounting block the two pairs of contacts are in series.

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**2,646,557**
**ALARM AND ANNUNCIATOR DEVICE**
**Eric D. Smith, Chicago, Ill.**
**Application August 17, 1950, Serial No. 180,049**
**12 Claims. (Cl. 340—213)**

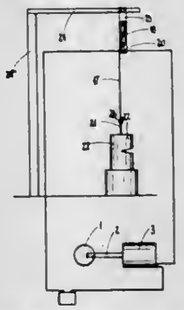



1. An electric alarm device comprising a spring loaded rotatable member, latch means for latching said member in either of two positions, electromagnetic latch means, means effective upon actuation of the latch means for stopping restoration of the member under its spring loading in either of two different positions depending upon the position in which the member had last been latched, and a removable key fitting said rotatable member for turning it and being also turned by said member so that the position of the key indicates the position of the rotatable member.

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**2,646,558**
**MEANS FOR RECORDING THE ORDER OF FINISHING IN CONTESTS**
**Stephen James Samuels, Nelson, New Zealand**
**Application July 19, 1950, Serial No. 174,707**
**In New Zealand July 28, 1949**
**2 Claims. (Cl. 340—223)**

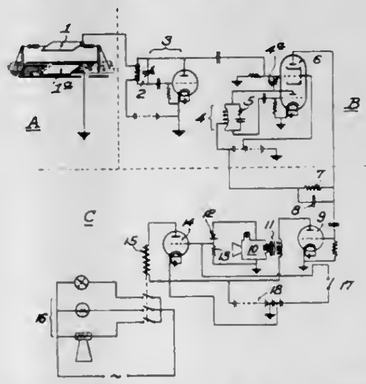
1. In a device for use in indicating the order of finishing a contest in which balls are released by contestants upon actuating mechanical and electrical means, solenoids having cores supporting the balls in compartments, said solenoids being in electric circuits closed mechanically by the contestants tauting tapes as a contest is finished, a suspended arm, elongated hooks depending from said arm, a switch on the end of each hook, a said tape from each switch connected to a spike adapted for insertion in the heads of chopping blocks, and means actuated by



said tape to close said switches for actuating said solenoids for releasing said balls.

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**2,646,559**
**APPROACH DETECTION BY HIGH-FREQUENCY RADIATION**
**Paul Gustav Adolf Nutzler, Sao Paulo, Brazil**
**Application June 6, 1950, Serial No. 166,468**
**In Brazil June 9, 1949**
**4 Claims. (Cl. 340—258)**



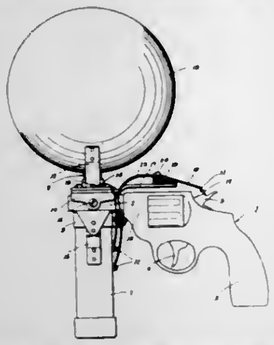

1. A device for warning of an intrusion of a body into a "watched place," comprising propagating means for setting up a field of radio frequency in said watched place; an oscillator for generating said radio frequency, the frequency having a normal value which becomes altered from said normal by intrusion of said body within the field; a control oscillator providing a fixed control-frequency equal to said normal value; adjustable coupling means between said oscillators providing an adjustable pull-in effect which maintains said first frequency normally locked-in with respect to said control-frequency and provides an adjustable threshold below which minor disturbances of said field will be insufficient to alter said first frequency; means to detect a beat-frequency between said frequencies; and alarm means adapted to be set off by the presence of said beat-frequency.

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**2,646,560**
**FLASH UNIT FOR STARTERS' GUNS**
**Wilbur E. Kroeger, Davis, Calif.**
**Application June 8, 1951, Serial No. 230,480**
**7 Claims. (Cl. 340—321)**

7. In combination, a starter's gun, a flash unit having an upstanding flash globe, means to

mount the unit on the gun, and a horizontal-axis reflector mounted behind the globe and



facing laterally of the barrel of the gun when the unit is mounted thereon.

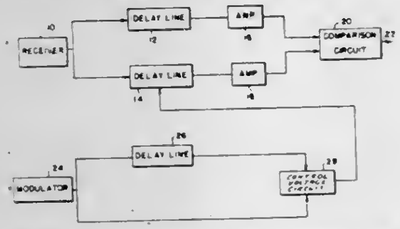
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**2,646,561**

**MOVING OBJECT PULSE ECHO SELECTION CIRCUIT FOR RADAR SYSTEMS**

**Alfred G. Emslie, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**

**Application April 30, 1946, Serial No. 665,993**
**13 Claims. (Cl. 343—7.7)**




2. A device for obtaining coincidence of signals in the receiver channel of a moving target radio locating system utilizing variably spaced exploratory pulses, said device including means for delaying given signals in the output of said receiver by a fixed amount, and means for delaying signals, succeeding said given signals in the output of said receiver, by a variable amount determined by the time interval between the successive exploratory pulses corresponding to said given and succeeding signals transmitted by said system so that said given signals correspond in time to said succeeding signals.

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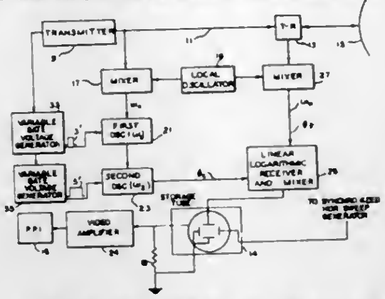
**2,646,562**

**RADIO OBJECT-LOCATION SYSTEM FOR MOVING TARGET INDICATION**

**Alfred G. Emslie, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War**

**Application May 17, 1945, Serial No. 594,265**
**10 Claims. (Cl. 343—9)**

1. A radio object-location system including means for transmitting short duration, high carrier-frequency exploratory pulses of radiant energy, means for reducing the carrier-frequency of a portion of each exploratory pulse to obtain a locking pulse, a first oscillator, means for applying said locking pulse to said first oscillator, means for generating a gate voltage having a variable lagging edge, means for applying said gate voltage to said first oscillator to obtain a gated output, a second oscillator, means for generating a second gate voltage having a leading edge determined by the lagging edge of said first gate voltage, means for applying said second gate voltage to said second oscillator and means for applying said gated output of said first oscillator to said second oscillator as a phasing voltage, means for varying the lagging edge of said first gate voltage in a predetermined periodic manner, a mixer, and means for applying to said mixer the output of said second oscillator as reference oscillations, means for receiving echo-pulses, means for reducing the carrier-frequency of said echo-pulses to a frequency substantially the same as the carrier-frequency of the locking pulse applied to said first oscillator, means for applying said reduced carrier-frequency echo-pulses to said mixer, means for algebraically combining said reference oscillations and said reduced carrier frequency echo-pulses, and means for detecting the resulting combination to obtain video pulses, a video indicator which is responsive only to video pulses of varying amplitude, and means for applying said video pulses thereto.



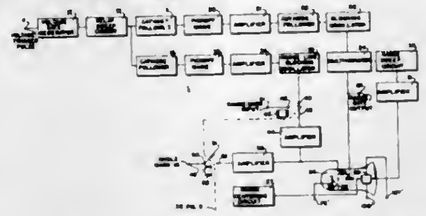

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**2,646,563**

**V-BEAM HEIGHT INDICATOR**

**Howard P. Stabler, Williamstown, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application September 24, 1946, Serial No. 699,044**
**12 Claims. (Cl. 343—11)**



1. An auxiliary indicator system for azimuth angle determination in a radar system for determining target height by the utilization of a vertical and slant beam comprising, a cathode ray tube, a source of voltage trigger pulses, means operated by said voltage trigger pulses to generate delayed voltage pulses, means to vary the delay between said voltage trigger pulses and said delayed voltage pulses, a range sweep circuit triggered by said delayed voltage pulses, the output from said range sweep circuit being applied to one of the horizontal deflection plates of said cathode ray tube to produce an expanded range sweep adjustable over the range of said radar system, centering means connected to the other horizontal deflection plate of said cathode ray tube, means to produce an azimuth sweep voltage synchronized with the motion of the antenna of said radar system, means to produce a voltage square wave adjustable in average value and peak to peak value, first switching means to apply either said azimuth sweep voltage or said square wave voltage to the vertical deflection plates of said cathode ray tube, said square wave voltage when applied to said vertical deflection plates of said cathode ray tube producing two azimuth markers, said markers serving to measure azimuth angle between video signals appearing on the presentation of said cathode ray tube, a source of video signals from the vertical beam of said radar system, a source of video signals from the slant beam of said radar system, and second switching means to apply to the cathode of said cathode ray tube video signals from either of said sources.



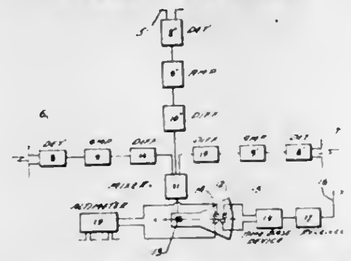
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**2,646,564**

**RADIO NAVIGATION SYSTEM**

**Pierre Périlhou, Clamart, France, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France, a French company**

**Application February 17, 1949, Serial No. 76,984**
**In France February 19, 1948**
**18 Claims. (Cl. 343—106)**




1. A system for determining and indicating the angle formed at every instant by the longitudinal axis of a craft and the path followed thereby more particularly toward a fixed point on the ground comprising means at said fixed point for transmitting in relation to a predetermined direction passing through said point signal energy radiations presenting a variable characteristic in azimuth, means for receiving said radiations on the craft at two spaced points on the longitudinal axis of said craft and means for comparing the effects of reception of said radiations at said points for producing the indication of said angle correlated with an indication of said path.

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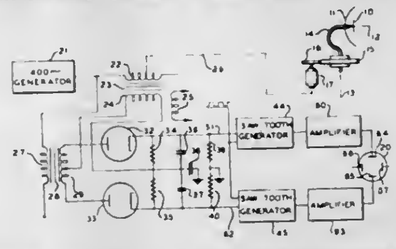
**2,646,565**

**CATHODE-RAY TUBE SWEEP CIRCUIT**

**Volney C. Wilson, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application September 18, 1945, Serial No. 617,138**
**11 Claims. (Cl. 343—115)**

1. In a system for producing a substantially straightline sweep of the electron beam in a cathode ray tube and for causing said sweep to rotate about a predetermined point on the face of said tube, first and second saw-tooth wave form generators, means for producing first and second sinusoidally varying voltages which are 180° out of phase, means for applying said first and second voltages to said first and second saw-tooth wave form generators, respectively, means for applying synchronizing pulses to said saw-tooth wave




form generators to determine the recurrence rate of the outputs thereof, and means for applying said outputs to said cathode ray tube.

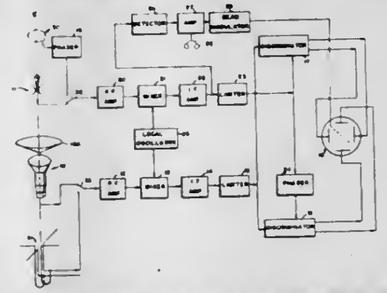
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**2,646,566**

**PHASE-TYPE DIRECTION FINDER SYSTEM**

**William D. McGuigan, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War**

**Application March 1, 1946, Serial No. 651,312**
**4 Claims. (Cl. 343—123)**

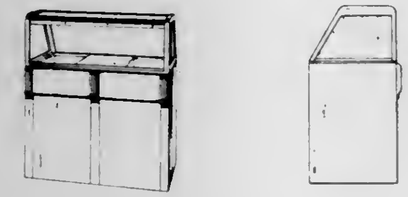


1. A phase-type instantaneous direction finding system including a circularly polarized horn-type antenna oriented in a vertical position, a vertically polarized reference antenna aligned along the vertical axis of said horn-type antenna, amplifying means connected to said antennas comprising a dual channel superheterodyne-type receiver having a common local oscillator for tuning said channels, limiter means in the output of each of said receiver channels for maintaining equal and constant output voltages from said receiver channels, a cathode ray oscilloscope having an intensity control grid, phase discriminator means connecting the output of said limiters to the deflection plates of said cathode ray oscilloscope comprising a first phase discriminator fed by each of said limiters for supplying a voltage to the vertical deflection plates of said cathode ray oscilloscope and a second phase discriminator having one of said limiters connected directly to its input and a 90 electrical-degree phase shifting network connecting the output of the other of said limiters to its input and an auxiliary channel circuit connected to one of said receiver channels comprising a detector and means for deriving a beam modulating voltage from said detector for application to said intensity grid, whereby signals received by said antennas are compared and produce a deflection on said cathode ray oscilloscope, the angular position of which is proportional to the phase difference between said signals.

# DESIGNS

JULY 21, 1953

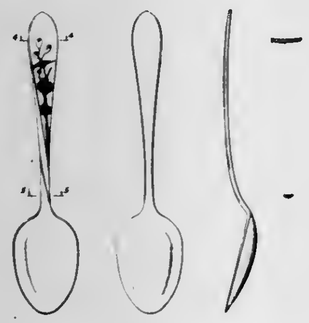
**170,040**
**COMBINATION POPCORN WARMING AND DISPLAY CABINET**
**Arthur D. Altemiller, Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio, a corporation of Delaware**
**Application March 19, 1953, Serial No. 24,127**
**Term of patent 14 years**
**(Cl. D81—10)**



The ornamental design for a combination popcorn warming and display cabinet, substantially as shown and described.

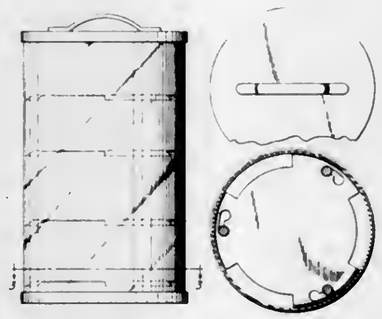
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**170,041**
**SPOON OR SIMILAR ARTICLE**
**Percy B. Ball, North Attleboro, Mass., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut**
**Application March 23, 1953, Serial No. 24,170**
**Term of patent 14 years**
**(Cl. D54—12)**



The ornamental design for a spoon or similar article, substantially as shown.

**170,042**
**HAT BOX**
**Melvin A. Bard and Ia Lene Bard, Mountain View, Calif.**
**Application November 8, 1952, Serial No. 22,211**
**Term of patent 14 years**
**(Cl. D58—11)**



The ornamental design for a hat box, substantially as shown and described.

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**170,043**
**TEXTILE FABRIC**
**Louis Bluhm, New York, N. Y.**
**Application November 14, 1952, Serial No. 22,292**
**Term of patent 3½ years**
**(Cl. D92—1)**

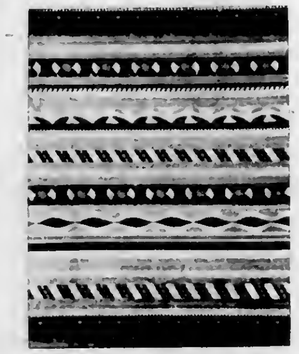


The ornamental design for a textile fabric, substantially as shown and described.





**170,044**
**TEXTILE FABRIC**
**Louis Bluhm, New York, N. Y.**
**Application November 18, 1952, Serial No. 22,361**
**Term of patent 3½ years**
**(Cl. D92—1)**



The ornamental design for a textile fabric, substantially as shown and described.

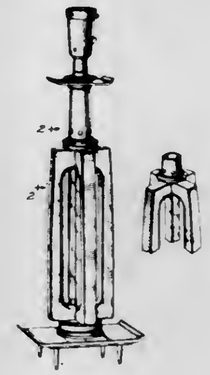
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**170,045**
**ELECTRIC LAMP BASE**
**David Borowitz, Chicago, Ill.**
**Application February 12, 1953, Serial No. 23,573**
**Term of patent 3½ years**
**(Cl. D48—20)**



The ornamental design for an electric lamp base, substantially as shown and described.

**170,046**
**BASE FOR TABLE LAMPS**
**Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois**
**Application February 25, 1953, Serial No. 23,790**
**Term of patent 7 years**
**(Cl. D48—20)**



The ornamental design for a base for table lamps, as shown.

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**170,047**
**BASE FOR TABLE LAMPS**
**Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois**
**Application February 25, 1953, Serial No. 23,792**
**Term of patent 7 years**
**(Cl. D48—20)**



The ornamental design for a base for table lamps, as shown.

170,048
**BASE FOR TABLE LAMPS**
Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois
Application February 25, 1953, Serial No. 23,794
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a base for table lamps, as shown and described.

170,049
**BASE FOR TABLE LAMPS**
Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois
Application February 25, 1953, Serial No. 23,795
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a base for table lamps, as shown.

170,050
**TEETHING RING OR SIMILAR ARTICLE**
Jack Colm, New York, N. Y.
Application October 22, 1952, Serial No. 21,941
Term of patent 7 years
(Cl. D83—1)



The ornamental design for a teething ring or similar article, substantially as shown and described.

170,051
**TEETHING RING OR SIMILAR ARTICLE**
Jack Colm, New York, N. Y.
Application October 22, 1952, Serial No. 21,942
Term of patent 7 years
(Cl. D83—1)



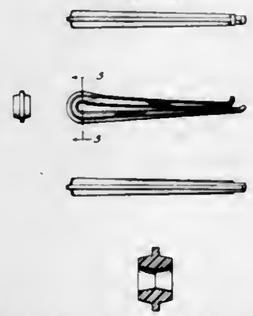
The ornamental design for a teething ring or similar article, substantially as shown and described.

170,052
**ROCKING HORSE**
Isabel Goss, Lawndale, Calif.
Application October 1, 1951, Serial No. 16,799
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a rocking horse, as shown and described.

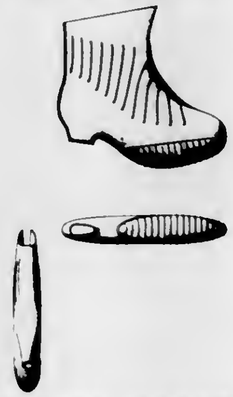
170,053
**HAIRPIN**
Frank G. Hall, Chicago, Ill.
Application January 26, 1953, Serial No. 23,292
Term of patent 3½ years
(Cl. D88—10)



The ornamental design for a hairpin, as shown.

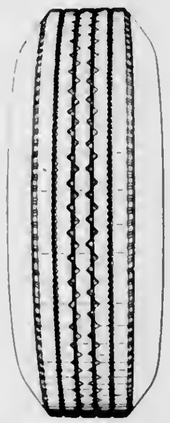


170,054
**WOMAN'S OVERSHOE**
Betty A. Hausfeld, Loveland, and Evelyn M. Marx and Joe J. Marx, Cincinnati, Ohio, assignors to So-Lo Works Incorporated, Loveland, Ohio, a corporation of Ohio
Application February 9, 1953, Serial No. 23,499
Term of patent 14 years
(Cl. D7—4)



The ornamental design for a woman's overshoe, substantially as shown.

170,055
**TIRE**
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application June 19, 1952, Serial No. 20,269
Term of patent 14 years
(Cl. D90—20)



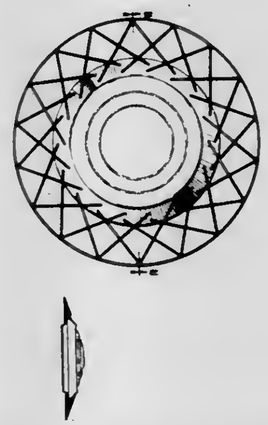
The ornamental design for a tire, as shown.

170,056
**SPOON OR OTHER ARTICLE OF FLATWARE**
Lillian V. M. Helander, Meriden, Conn., assignor to The International Silver Company, Meriden, Conn., a corporation of Connecticut
Application February 16, 1953, Serial No. 23,635
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or other article of flatware, substantially as shown and described.

170,057
**WHEEL COVER**
Howard M. Jenkins, Jr., Detroit, Mich., assignor to Van Auken, Inc., Detroit, Mich., a corporation of Michigan
Application June 9, 1952, Serial No. 20,104
Term of patent 14 years
(Cl. D14—30)



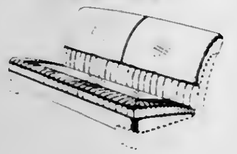
The ornamental design for a wheel cover, as shown and described.

170,058
**LIGHTNING DEMONSTRATOR**
Sidney D. Kretzer, St. Louis, Mo.
Application March 11, 1953, Serial No. 23,985
Term of patent 7 years
(Cl. D25—1)



The ornamental design for a lightning demonstrator, substantially as shown and described.

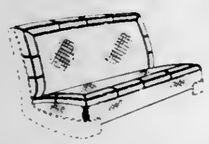
170,059
**VEHICLE SEAT**
John H. Lang, Detroit, Mich.
Application June 17, 1952, Serial No. 20,228
Term of patent 3½ years
(Cl. D14—6)

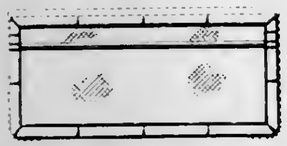




The ornamental design for a vehicle seat, substantially as shown and described.

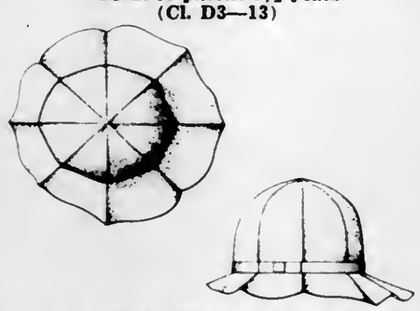
170,060
**VEHICLE SEAT**
John H. Lang, Detroit, Mich.
Application June 17, 1952, Serial No. 20,230
Term of patent 3½ years
(Cl. D14—6)





The ornamental design for a vehicle seat, substantially as shown and described.

170,061
**HAT**
Paul M. Maxwell, Milton, and Klari M. Wlach, New York, N. Y., assignors to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application February 27, 1953, Serial No. 23,819
Term of patent 3½ years
(Cl. D3—13)



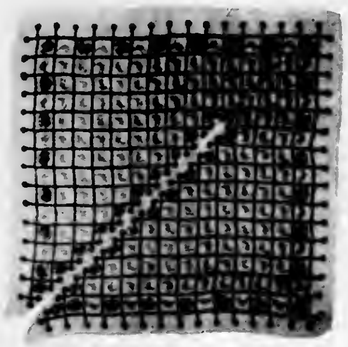
The ornamental design for a hat, as shown.

170,062
**DOUGHNUT**
Herbert E. Meilstrup, Los Angeles, Calif.
Application September 29, 1951, Serial No. 16,783
Term of patent 14 years
(Cl. D8—1)



The ornamental design for a doughnut, as shown.

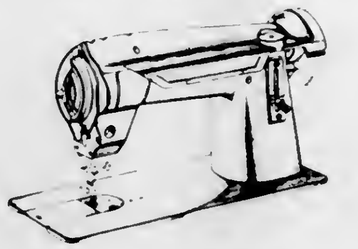
170,063
**SCARF**
Vera Neumann, Ossining, N. Y.
Application October 6, 1952, Serial No. 21,714
Term of patent 7 years
(Cl. D3—16)

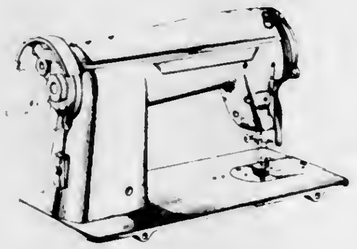


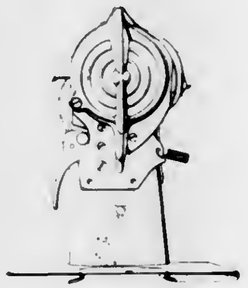
The ornamental design for a scarf, substantially as shown and described.

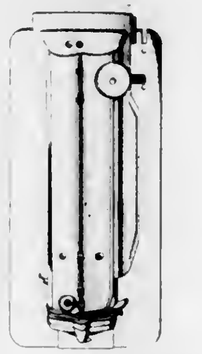


170,064
**SEWING-MACHINE FRAME**
Malcolm S. Park, Mount Kisco, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 7, 1953, Serial No. 23,053
Term of patent 14 years
(Cl. D70—1)



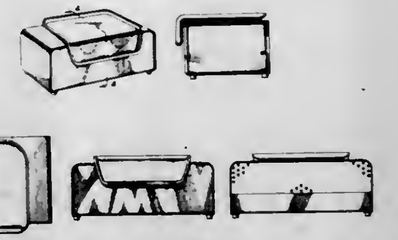






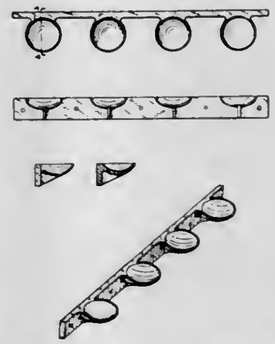
The ornamental design for a sewing-machine frame, substantially as shown and described.

170,065
**HOUSING FOR SCIENTIFIC INSTRUMENTS**
Thorleif H. Petterson, Pasadena, Calif., assignor to Beckman Instruments, Inc., South Pasadena, Calif., a corporation of California
Application December 6, 1952, Serial No. 22,585
Term of patent 14 years
(Cl. D83—1)



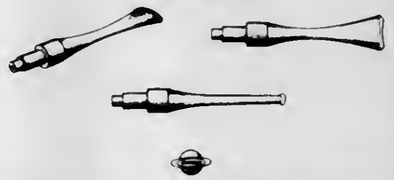
The ornamental design for a housing for scientific instruments, substantially as shown.

170,066
**SHUFFLEBOARD ATTACHMENT**
Arthur Raymond, Seattle, Wash., assignor of one-half to K. E. Schultz, Seattle, Wash.
Application February 26, 1953, Serial No. 23,800
Term of patent 7 years
(Cl. D34—5)



The ornamental design for a shuffleboard attachment, as shown.

170,067
**PIPE STEM**
Abraham A. Sasieni, Edgware, England, assignor to Sasieni Ltd., London, England, a corporation of Great Britain
Application November 25, 1952, Serial No. 22,444
In Great Britain July 20, 1952
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a pipe stem, substantially as shown.

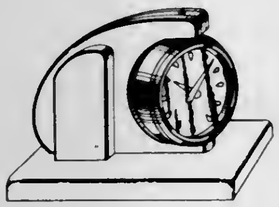
**170,068**
**SHAPED TEXTILE FABRIC**
**Madalyn Miller Schimmel, Los Angeles, Calif.**
**Application September 15, 1952, Serial No. 21,460**
**Term of patent 7 years**
**(Cl. D92—1)**



The ornamental design for a shaped textile fabric, as shown.

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**170,069**
**DESK CLOCK**
**Charles W. Sheldon, Lancaster County, Pa.**
**Application March 29, 1952, Serial No. 19,102**
**Term of patent 3½ years**
**(Cl. D42—7)**



The ornamental design for a desk clock, as shown and described.

**170,070**
**TELEVISION BROADCAST TRANSMITTER**
**Martin Silver and Ervin M. Bradburd, Fairlawn, and Raymond B. Lewthwaite, River Edge, N. J., assignors to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware**
**Application March 3, 1953, Serial No. 23,871**
**Term of patent 14 years**
**(Cl. D56—4)**



The ornamental design for a television broadcast transmitter, as shown and described.

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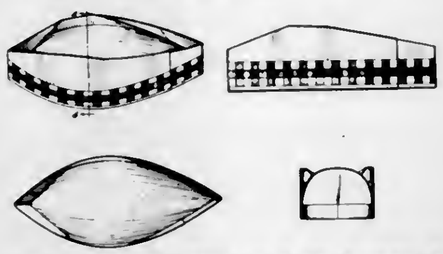
**170,071**
**NAPKIN OR SIMILAR ARTICLE**
**Roy J. Vernon, Minneapolis, Minn.**
**Application December 10, 1952, Serial No. 22,610**
**Term of patent 7 years**
**(Cl. D59—2)**



The ornamental design for a napkin or similar article, substantially as shown.

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**170,072**
**CAP**
**Grabel B. Weber, Chicago, Ill., assignor to White Castle System, Inc., Columbus, Ohio, a corporation of Delaware**
**Application September 29, 1952, Serial No. 21,631**
**Term of patent 14 years**
**(Cl. D3—13)**



The ornamental design for a cap, substantially as shown and described.

July 28, 1953 Volume 672 Number 4

# Official Gazette

## UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

# Condition of Applications Under Examination at Close of Business July 10, 1953

Total number of patent applications awaiting action, 100,121. Date of oldest new application, October 2, 1952; date of oldest amended application, October 1, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| *(C. E. D.) KEELY, J. E. | | | |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 10-3-52 | 10-1-52 | 1476 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 10-28-52 | 10-15-52 | 1228 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 11-21-52 | 11-15-52 | 1888 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 10-20-52 | 10-21-52 | 1462 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Oates. | 11-3-52 | 11-1-52 | 999 |
| 6. SURLE, H., Carbon Chemistry (part) | 10-2-52 | 10-1-52 | 2647 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 10-25-52 | 10-31-52 | 1629 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 11-3-52 | 11-1-52 | 1653 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 10-21-52 | 10-20-52 | 1241 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 11-12-52 | 11-12-52 | 1345 |
| 11. BENHAM, E. V., Boots, Shoes and Leggins; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 10-18-52 | 10-14-52 | 1165 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 10-31-52 | 10-23-52 | 1181 |
| 13. REALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 10-10-52 | 10-16-52 | 1271 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 10-28-52 | 10-31-52 | 1449 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 10-14-52 | 10-11-52 | 1652 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 10-11-52 | 10-14-52 | 1683 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 10-21-52 | 10-20-52 | 1534 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 10-17-52 | 10-18-52 | 726 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 10-8-52 | 10-8-52 | 1196 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 11-12-52 | 11-5-52 | 1309 |
| 21. MADER, R. C., Textiles | 10-13-52 | 10-11-52 | 1331 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 11-3-52 | 10-29-52 | 1036 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 10-11-52 | 10-13-52 | 872 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 12-18-52 | 12-9-52 | 1043 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 10-7-52 | 10-6-52 | 1325 |
| 26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 11-12-52 | 11-12-52 | 1900 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 10-20-52 | 10-21-52 | 1217 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 11-4-52 | 10-7-52 | 1092 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 10-11-52 | 10-14-52 | 1141 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 12-15-52 | 12-15-52 | 1329 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 10-11-52 | 10-10-52 | 2443 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-13-52 | 11-8-52 | 1234 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 10-24-52 | 10-24-52 | 1862 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 10-11-52 | 10-10-52 | 1297 |
| 35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles | 12-10-52 | 12-2-52 | 1202 |
| 36. McFADYEN, A. D., Measuring and Testing | 11-6-52 | 10-27-52 | 1086 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 10-30-52 | 11-14-52 | 1681 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 10-25-52 | 10-31-52 | 1536 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 12-20-52 | 12-18-52 | 1642 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 1-29-53 | 1-12-53 | 950 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | 11-10-52 | 11-6-52 | 1558 |

*Commissioner's Examiners' Division

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 10-16-52 | 10-11-52 | 1969 |
| 43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-15-52 | 10-15-52 | 1801 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 11-5-52 | 11-3-52 | 1353 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 10-14-52 | 10-14-52 | 1122 |
| 47. KONOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 10-17-52 | 10-18-52 | 1609 |
| 48. BERNSTEIN, S., Electrcity, General Applications; Conversion Systems; Electric Igniters; Card and Pictnre Exhibiting. | 10-16-52 | 10-16-52 | 1989 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 11-6-52 | 11-3-52 | 1385 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 12-22-52 | 1-2-53 | 1559 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 10-22-52 | 10-22-52 | 1593 |
| 52. WHITNEY, F. L., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 11-19-52 | 11-25-52 | 1882 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 11-10-52 | 11-14-52 | 985 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications | 10-15-52 | 10-13-52 | 1856 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 11-8-52 | 10-24-52 | 946 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 11-26-52 | 11-24-52 | 1297 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 11-6-52 | 10-16-52 | 1734 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons. | 10-21-52 | 10-13-52 | 1397 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminatiog | 11-10-52 | 11-4-52 | 1418 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 11-8-52 | 11-7-52 | 965 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 11-14-52 | 11-10-52 | 1199 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 10-13-52 | 10-16-52 | 1874 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 10-14-52 | 10-15-52 | 1798 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43. (671 O. G. 316). | 10-29-52 | 11-12-52 | 809 |
| 66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales | | | |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 11-6-52 | 11-6-52 | 1722 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 12-5-52 | 12-2-52 | 1414 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 10-22-52 | 10-24-52 | 1707 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 10-7-52 | 10-1-52 | 3404 |
| DESIGNS: A—BREHM, G. L., Industrial Arts | 3-11-53 | 3-13-53 | 956 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 3-12-53 | 3-17-53 | 867 |

Number of new applications received week ending June 19, 1953

PATENTS 1,533 DESIGNS 107 REISSUES 6 TOTAL 1,646

Total number of trade-mark applications awaiting action (including renewals and republications), 11,033. Date of oldest new application, Feb. 13, 1953; date of oldest amended application, Feb. 13, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 2-13-53 | 2-13-53 | 2695 |
| II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 2-17-53 | 2-24-53 | 2652 |
| Renewals (All Classes) | 5-6-53 | 6-15-53 | 499 |
| Republications (All Classes) | 5-13-53 | 5-27-53 | 203 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 3-1-53 | 2-21-53 | 2582 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 2-17-53 | 2-16-53 | 2402 |

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Disposable venoclysis set. Serial No. 646,093, July 28. Class 44.

Ace Reid Cartoons, Kerrville, Tex. Cartoons. Serial No. 642,792, July 28. Class 38.

Adele Apron Co.: *See*—
Stirton, Marguerite A.

Aerofall Mills Limited, Toronto, Ontario, Canada. Mineral crushing and screening plant. Serial No. 629,070, July 28. Class 23.

Aircraft Transformer Corporation, Matawan, N. J. Insulatory fitted coverings for use on transformers and related electrical units. Serial No. 625,384, July 28. Class 21.

Airex Corporation, New York, N. Y. Fishing and spinning reels, fishing and spinning rods, fishing plugs, etc. Serial No. 616,715, July 28. Class 22.

Aktiebolaget Rörstrands Porslinsfabriker, Lidkoping, Sweden. Kitchenware and ovenware, tableware, etc. Serial Nos. 619,731-2, July 28. Class 30.

Alcon Laboratories, Inc., Fort Worth, Tex. Ophthalmic solutions. Serial No. 607,468, July 28. Class 18.

Aldor, George, Co., Inc., New York, N. Y. Hosiery. Serial No. 635,016, July 28. Class 39.

Allied Chemical & Dye Corporation, New York, N. Y. Organic chemical. Serial No. 630,563, July 28. Class 6.

Allied Drugs, Inc., Hackensack, N. J. Anti-histamine medicine. Serial No. 627,919, July 28. Class 18.

American Chain & Cable Company, Inc., Bridgeport, Conn. Water soluble compound for use as a coolant. Serial No. 628,988, July 28. Class 6.

American Cyanamid Company, New York, N. Y. Pigment. Serial No. 638,890, July 28. Class 6.

American Cystoscope Makers, Inc., New York, N. Y. Endoscopic instruments. Serial No. 628,899, July 28. Class 44

American Hoist & Derrick Co., St. Paul, Minn. Single and multiple drum hoists and drums therefor. Serial No. 540,957, July 28. Class 23.

American Viscose Corporation, Philadelphia, Pa. Colored photographic film. Serial No. 624,380, July 28. Class 26.

Amida S. A., Grenchen, Switzerland. Watches and parts of watches. Serial No. 644,710, July 28. Class 27.

Ameslite Company, Chicago, Ill. Extruded thermoplastic products. Serial No. 627,030, July 28. Class 1.

Architectural Tiling Company, Inc., Keyport, N. J., and New York, N. Y. Ceramic and clay tiles. Serial No. 631,776, July 28. Class 12.

Arena Publishing Corp., New York, N. Y. Publication. Serial No. 641,889, July 28. Class 38.

Armour and Company, Chicago, Ill. Oxytocin preparation used as a veterinary medicine. Serial No. 641,537, July 28. Class 18.

Arnold, Schwinn & Co., Chicago, Ill. Bicycles. Serial No. 632,069, July 28. Class 49.

Arwell, Inc., Waukegan, Ill. Poison feed boxes. Serial No. 632,711, July 28. Class 2.

Ashland Paper Mills, Inc., Ashland, N. H. Paper napkins. Serial No. 618,201, July 28. Class 37.

Autosphere Corporation, New York, N. Y. Apparatus for testing the operating characteristics including acceleration and deceleration of a vehicle. Serial No. 638,466, July 28. Class 26.

Avonshire Knitting Mills, Inc., Philadelphia, Pa. Sweaters. Serial No. 636,194, July 28. Class 39.

B & L Laboratories: *See*
Thompson, Harold J.

B & W Rainbow Stamp Company, Killeen, Tex. Trading stamps. Serial No. 642,457, July 28. Class 38.

Bari, Jean, & Co. Inc. Import-Export, Cliffside Park, N. J. Canned tomatoes, canned tomato paste, cheese, etc. Serial No 639,407, July 28. Class 46.

Beacon Plastics Corporation, Newton Highlands, Mass. Plastic trays. Serial No. 628,518, July 28. Class 2.

Bear Brand Hosiery Co., Chicago, Ill. Men's hosiery. Serial No. 641,000, July 28. Class 39.

Bear Manufacturing Company, Rock Island, Ill. Device comprising essentially a platform, an aligning mechanism and a viewing screen for testing and checking wheel alignment of automotive and other vehicles propelled on wheels. Serial No. 623,868, July 28. Class 26

Bernstein, Ted, Associates: *See*
Bernstein, Theodore H.

Bernstein, Theodore H., doing business under the name and style of Ted Bernstein Associates, New York, N. Y. Dental products. Serial No. 639,080, July 28. Class 44.

Better Brushes, Incorporated, Palmer, Mass. Household deodorizing preparations and moth crystals. Serial No. 639,411, July 28. Class 6.

Bird Provision Co., Pekin, Ill. Pork sausage. Serial No. 638,347, July 28. Class 46.

Blatch, Adolph, Incorporated, San Francisco, Calif. Fishing equipment, archery equipment, badminton equipment, etc. Serial No. 638,038, July 28. Class 22.

Blake, Moffitt & Towne, San Francisco, Calif. Waxed paper. Serial No. 562,441, July 28. Class 37.

Blancard & Company, Inc., New York, N. Y. Finger rings. Serial No. 643,205, July 28. Class 28.

Bloom, Charles, New York, N. Y. Fabrics. Serial No. 640,666, July 28. Class 42.

Borgfeldt, Geo., Corporation, New York, N. Y. Porcelain and earthenware. Serial No. 640,906, July 28. Class 30.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin preparation. Serial No. 630,311, July 28. Class 18.

Bristol Manufacturing Corporation, Bristol, R. I. Men's, women's, and children's shoes. Serial 638,060, July 28. Class 39.

Brooklyn Mills, Inc., Englewood, N. J. Hair nets. Serial No. 634,296, July 28. Class 39.

Brown, H. H., Shoe Co. Inc., Worcester, Mass. Men's, women's and children's boots and shoes. Serial No. 635,870, July 28. Class 39.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 644,278, July 28. Class 27.

Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 644,280, July 28. Class 27.

Butler Brothers, Chicago, Ill. Inside and outside ready mixed house paint and varnish, polish and wax. Serial No. 567,493, July 28. Class 4.

Cabot, Godfrey L., Inc., Boston, Mass. Reinforcing agent for rubbers and plastics, a suspending agent and thickening in various oils and water solutions. Serial No. 644,282, July 28. Class 6.

Cantrell & Cochrane Corporation, assignee: *See*—
Neglick's, Inc.

Carbona Products Company, Long Island City, N. Y. Dry-cleaning preparations and grease solvent. Serial No. 629,352, July 28. Class 52.

Casement Hardware Company, The, Chicago, Ill. Window and door units. Serial No. 637,478, July 28. Class 12.

Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Corrosion remover and brightener, aluminum alloy surface cleaner and fast acting brightener. Serial No. 629,836, July 28. Class 4.

Cela Landwirtschaftliche Chemikalien G. m. b. H., Ingelheim am Rhein, Germany. Insecticides. Serial No. 639,099, July 28. Class 6.

Cenol Company, Inc., Chicago, Ill. Moth destroyer and preventative. Serial No. 631,466, July 28. Class 6.

Champ Hats, Inc., Philadelphia, Pa. Hats. Serial No. 625,888, July 28. Class 39.

Chapman Chemical Company, Memphis, Tenn. Agricultural chemicals. Serial No. 644,288, July 28. Class 6.

Cheneweth, James E., National City, Calif. Therapeutic chest pads. Serial No. 637,816, July 28. Class 44.

Chism Ice Cream Co.: *See*—
Chism Ice Cream Co., Inc.

Chism Ice Cream Co., Inc., doing business as Chism Ice Cream Co., Reno, Nev. Ice cream and sherbet. Serial No. 641,125, July 28. Class 46.

Clemente Jacques y Cia, S. A., Mexico City, Mexico. Canned chiles, pickles, and canned fruits. Serial No. 638,193, July 28. Class 46.

Cleveland Heater Company, The, Cleveland, Ohio. Gas, oil, vapor burning water heaters and their structural parts. Serial No. 626,932, July 28. Class 34.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. Serial No. 637,479, July 28. Class 52.

Columbia Engineering Service Co.: *See*—
Stem, Donald E.

Comer Produce Company, Phoenix, Ariz. Fresh vegetables and melons. Serial No. 642,948, July 28. Class 46.

Commercial Solvents Corporation, New York, N. Y. Vitamin concentrates. Serial No. 640,818, July 28. Class 18.

Cone, Frederick H., & Company Incorporated, New York, N. Y. Synthetic brush filaments. Serial No. 640,915, July 28. Class 1.

Consolidated Products Company, Danville, Ill. Prepared animal feed. Serial No. 643,537, July 28. Class 46.

Contina Bureax-und Rechenmaschinenfabrik Aktiengesellschaft, Mauren, Liechtenstein. Calculating machines, go and no-go O. D. (outside diameter) gauges, cross gauges, etc. Serial No. 603,713, July 28. Class 26.

Continental Aluminum Corporation, South Kearny, N. J. Sidings of aluminum. Serial No. 592,074, July 28. Class 12.

Coon, W. B., Company, Rochester, N. Y. Women's shoes. Serial No. 639,873, July 28. Class 39.

Craftshire Sports, Inc., New York, N. Y. Women's and misses' suits and coats. Serial No. 638,636, July 28. Class 39.

Crawford Fitting Company, Cleveland, Ohio. Tube couplings. Serial No. 612,890, July 28. Class 13.
Cudahy Brothers Co., Cudahy, Wis. Bacon. Serial Nos. 639,982–3, July 28. Class 46.
Cyma Watch Co., Inc., New York, N. Y. Watches and clocks. Serial No. 644,544, July 28. Class 27.
Dahl, George W., Company, Inc., Bristol, R. I. Single actuator multiple valve units. Serial No. 640,550, July 28. Class 13.
Dan River Mills, Incorporated, Danville, Va. Textile fabrics. Serial No. 623,953, July 28. Class 42.
Dan River Mills, Incorporated, Danville, Va. Reactive organic chemicals. Serial No. 632,158, July 28. Class 6.
Daniel, Jack, Distillery, Lem Motlow, Prop., Inc., Lynchburg, Tenn. Whiskey. Serial No. 634,575, July 28. Class 49.
Davis Plywood Corporation, The, Cleveland, Ohio. Plywood sheet material. Serial No. 631,405, July 28. Class 12.
Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 624,476, July 28. Class 42.
Delano Corporation of America, New York, N. Y. Porter or malt liquor. Serial No. 602,894, July 28. Class 48.
Densco, Incorporated, Denver, Colo. Dental handpieces. Serial No. 643,662, July 28. Class 44.
Denver Equipment Company, Denver, Colo. Mining and mill machinery and equipment, amalgamation equipment, etc. Serial No. 538,105, July 28. Class 23.
Diamond Hosiery Corp., High Point, N. C., and New York, N. Y. Women's and girls' hosiery. Serial No. 624,634, July 28. Class 39.
Dick, A. B., Company, Niles, Ill. Materials used in lithographic printing—namely, inks, etc. Serial No. 610,422, July 28. Class 11.
Dimaria, Joseph F., Palo Alto, Calif. Bedding clamps. Serial No. 632,201, July 28. Class 32.
Doho Chemical Corporation, New York, N. Y. Preparation for the relief of throat ailments. Serial No. 641,278, July 28. Class 18.
Doulton & Co., Limited, Burslem and London, England. Earthenware articles. Serial No. 643,824, July 28. Class 30.
Dow Chemical Company, The, Midland, Mich. Dry cleaning solvent. Serial No. 613,870, July 28. Class 52.
Dow Chemical Company, The, Midland, Mich. Aralkyl - phenol mixture. Serial No. 632,355, July 28. Class 6.
Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. Serial Nos. 642,528–9, July 28. Class 18.
Drug Specialties, Inc., Winston-Salem, N. C. Medical preparation. Serial No. 642,531, July 28. Class 18.
Duofold Inc., Mohawk, N. Y. Men's underwear. Serial No. 636,413, July 28. Class 39.
Durowe Deutsche Uhrenrohwerke L. Hummel & Co.: *See*— Hummel, Ludwig.
Earnest, Henry J., Chicago, Ill. Fireproof moldable substance and for construction blocks and sheets. Serial No. 593,337, July 28. Class 12.
Eastern Art Products, Chicago, Ill. Casings and frames for clocks. Serial No. 614,292, July 28. Class 27.
Eastern Art Products, Chicago, Ill. Stock glass. Serial No. 614,293, July 28. Class 33.
Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo. Electrical lighting fixtures. Serial No. 634,683, July 28. Class 21.
Ekco Products Company, Chicago, Ill. Kitchen and table knives, forks, and spoons. Serial No. 551,703, July 28. Class 23.
Electric Steel Foundry, Portland, Oreg. Periodical. Serial No. 642,629, July 28. Class 38.
Ellmore Silver Co., Inc., The, Meriden, Conn. Sterling silver hollowware. Serial No. 644,021, July 28. Class 28.
Empire Manufacturing Company, Denver, Colo. Girls' and dolls' lingerie. Serial No. 607,803, July 28. Class 39.
Emrich, George J., Columbus, Ohio. Gas, oil, and coal fired stoves and space heaters. Serial No. 642,130, July 28. Class 34.
Enzrust Co.: *See*— Price, Burton S.
Epstein Garment Co. Inc., New York, N. Y. Ladies', misses', and girls' two-piece dresses and suits. Serial No. 639,363, July 28. Class 39.
Eureka Williams Corporation, Bloomington, Ill. Electric vacuum cleaners. Serial No. 640,447, July 28. Class 21.
Faith Co., The: *See*— Levy, Morris.
Federated Department Stores, Inc., Cincinnati, Ohio. Men's suits and coats. Serial No. 64,071, July 28. Class 39.
Fellows Medical Manufacturing Company, Inc., New York, N. Y. Preparation of chloral hydrate. Serial No. 630,422, July 28. Class 18.
Ferrersflex Limited, Higham Ferrers, England. Stiffeners, being parts of boots and shoes. Serial No. 641,035, July 28. Class 39.
Fine, George, Tucson, Ariz. Dresses, blouses, skirts, etc. Serial No. 640,071, July 28. Class 39.
Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic food flavors. Serial No. 603,052, July 28. Class 46.
Firmenich, Incorporated, assignee: *See*— Firmenich & Co.
Florida Tissue Manufacturing Company, Opa Locka, Fla. Paper towels. Serial No. 633,355, July 28. Class 37.
Fluorescent Fabricators: *See*— Easy-Eye Lighting, Inc.
Ford Motor Company Limited, London, England. Transportation vehicles. Serial No. 635,641, July 28. Class 19.
Foremost Dairies, Inc., Jacksonville, Fla. Orangeade. Serial No. 640,929, July 28. Class 45.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 642,345, July 28. Class 42.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 642,538, July 28. Class 42.
Foster Metal Products Incorporated, Attleboro, Mass. Jewelry. Serial No. 639,031, July 28. Class 28.
Fowler, Owen P., doing business as Zero Soap, assignor to Zero Manufacturing Co., Ltd., Victoria, British Columbia, Canada. Powdered soap. Serial No. 628,480, July 28. Class 52.
Frederics, E., Inc., Brooklyn, N. Y. Hair lacquer, creme cold wave, creme vitalizer, etc. Serial No. 629,104, July 28. Class 51.
Fruit Products Corporation, New York, N. Y. Empty bags. Serial No. 631,413, July 28. Class 2.
Fuertes, Luis R., doing business under the name of Sharktoon Boats Manufacturing Co., San Juan, Puerto Rico. Pleasure boats. Serial No. 612,535, July 28. Class 19.
Galvanic Products Corporation, Valley Stream, N. Y. Rectifier testers. Serial No. 633,614, July 28. Class 20.
Garland, George, doing business as Garland Publications, New York, N. Y. Periodical. Serial No. 633,765, July 28. Class 38.
Garland Publications: *See*— Garland, George.
Garlock Packing Company, The, Palmyra, N. Y. Mechanical packings and mechanical packing materials. Serial No. 642,541, July 28. Class 35.
Gate City Sash and Door Company, Fort Lauderdale, Fla. Window units. Serial No. 629,012, July 28. Class 12.
Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 644,169, July 28. Class 28.
General Motors Corporation, Detroit, Mich. Automobile engines. Serial No. 632,423, July 28. Class 23.
General Tire & Rubber Company, The, Akron, Ohio. Chemicals and chemical mixtures, solutions, and dispersions. Serial No. 644,232, July 28. Class 6.
Germain's, Inc., Los Angeles, Calif. Lawn grass seed. Serial Nos. 640,678–9, July 28. Class 1.
Gershenow, Robt. K., Company, Inc., New York, N. Y. Women's and girls' dresses. Serial No. 639,880, July 28. Class 39.
Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Floor wax. Serial No. 634,252, July 28. Class 4.
Gilbert, A. C., Company, The, New Haven, Conn. Hand held electrical appliances. Serial Nos. 565,770–1, July 28. Class 21.
Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Shampoo. Serial No. 634,589, July 28. Class 52.
Gladding, B. F., & Company, Inc., South Otselic, N. Y. Fishing lines. Serial No. 645,978, July 28. Class 22.
Goldman, Mortimer D., New York, N. Y. Ladies' and misses' sportswear. Serial No. 641,552, July 28. Class 39.
Gould-National Batteries, Inc., St. Paul, Minn. Separators for storage batteries. Serial No. 632,783, July 28. Class 21.
Graham-Field Surgical Co., New York, N. Y. Therapeutic thermometers, crutches, etc. Serial No. 589,442, July 28. Class 44.
Granitize Products Co.: *See*— Groves, Harold L.
Green, M. D., Rice Milling Co.: *See*— Green, Monroe D.
Green, Monroe D., trading as M. D. Green Rice Milling Co., San Francisco, Calif. Rice. Serial No. 607,546, July 28. Class 46.
Greenberg, Joseph B., Co., and also doing business as Joe Workman's Dept. Stores, Greensburg, Pa. Men's and boys' clothing. Serial No. 619,545, July 28. Class 39.
Greenebaum, Sam, doing business as San Vall6 Tile Kilns, Los Angeles, Calif. Pottery. Serial No. 627,261, July 28. Class 30.
Griffith Laboratories, Inc., The, Chicago, Ill. Canned ham. Serial No. 632,030, July 28. Class 46.
Grills, Leo. J., Broward County Air Port, Fla., assignor to United Specialties Company, Chicago, Ill. Hair driers. Serial No. 640,513, July 28. Class 44.
Groves, Harold L., doing business as Granitize Products Co., South Gate, Calif. Polishing compound. Serial No. 636,593, July 28. Class 4.
Gusmer, A., Inc., Hoboken, N. J. Beerstone remover for use in cleaning tanks, or the like, etc. Serial No. 637,179, July 28. Class 52.
Guy, Joseph, Quincy, Mass. Plastic foot pads. Serial No. 641,723, July 28. Class 44.
Hair Do Company, The, Chicago, Ill. Hair lacquer. Serial No. 642,543, July 28. Class 51.



Hampden Watch Company, Chicago, Ill. Watches. Serial No. 645,647, July 28. Class 27.
Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Metal anodes for electroplating. Serial No. 635,830, July 28. Class 14.
Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Apparatus for electroplating, anodically treating, electrocleaning, etc. Serial No. 635,831, July 28. Class 21.
Hardtmuth, L. & C., Inc., Bloomsbury, N. J. Pencils. Serial No. 634,405, July 28. Class 37.
Hargreaves, Dorothy M. New York, N. Y. Liquid dandruff remover. Serial No. 638,080, July 28. Class 51.
Haver, Gabriel D., Chula Vista, Calif. Locking devices. Serial No. 569,971, July 28. Class 25.
Herb-Shelly, Inc., Farmington, Minn. Plastic food bag. Serial No. 621,147, July 28. Class 2.
Hettler, Herman H., Lumber Co., Chicago, Ill. Lumber, millwork, and fabricated lumber. Serial No. 616,319, July 28. Class 12.
Hillyard Chemical Company, St. Joseph, Mo. Liquid detergent. Serial No. 641,778, July 28. Class 52.
Hilton, Norman, Linden, N. J. Men's jackets and sport jackets. Serial No. 641,680, July 28. Class 39.
Hofman, Leo C., West Hyattsville, Md. Hosiery. Serial No. 632,937, July 28. Class 39.
Honey Bear Farm: *See*— Krafft, Julia S.
House of Lowell, Inc., Piqua, Ohio. Cosmetics. Serial No. 623,191, July 28. Class 51.
House of Swansdown, Inc., The, New York, N. Y. Woolen and worsted fabrics. Serial No. 641,302, July 28. Class 42.
Householder, Wilfred N., doing business as Householder's Prescription Pharmacy, Portland, Oreg. Hygienic powder. Serial No. 631,867, July 28. Class 18.
Householder's Prescription Pharmacy: *See*— Householder, Wilfred N.
Hummel, Ludwig, doing business as Durowe Deutsche Uhrenrohwerke L. Hummel & Co., Pforzheim, Germany. Clocks, watches, watch movements, and parts thereof. Serial No. 644,033, July 28. Class 27.
Imperial Chemical Industries Limited, London and Millbank, England. Yarns and threads. Serial No. 638,383, July 28. Class 43.
Industrial Electrical Works: *See*— Stahmer, Bernhardt.
Industrial Rubber Products, Inc., Des Moines, Iowa. Natural and synthetic air-curing liquid rubber. Serial No. 639,473, July 28. Class 1.
Industrial Soap Company, St. Louis, Mo. Cleaning composition. Serial No. 635,418, July 28. Class 52.
Joe Workman's Dept. Stores: *See*— Greenberg, Joseph B., Co.
Johnnor Company, The, Linden, N. J. Men's jackets and sport jackets. Serial No. 641,682, July 28. Class 39.
Jordan Lumber Co., Memphis, Tenn. Chemical treatment of lumber. Serial No. 639,474, July 28. Class 106.
Kahn's, E., Sons Company, The, Cincinnati, Ohio. Sausage. Serial No. 607,172, July 28. Class 46.
Kalart Company Inc., The, Plainville, Conn. Camera attachments and accessories. Serial No. 609,864, July 28. Class 26.
Kaye Thermometer Corporation, Brooklyn, N. Y. Clinical thermometers. Serial No. 639,885, July 28. Class 44.
Kaylon Incorporated, New York, N. Y. Ladies' and girls' pajamas, pajama coats, beach coats, etc. Serial No. 631,354, July 28. Class 39.
Kempel, George P., doing business under the name of Shush Mfg. Co., Akron, Ohio. Combination package containing disposable syringe, etc., and douche chemical preparations for use in same. Serial No. 636,787, July 28. Class 44.
Kendall Company, The, Boston, Mass. Play nurse first aid kit. Serial No. 644,237, July 28. Class 22.
Kingston Products Corporation, Kokomo, Ind. Automobile heaters. Serial No. 620,508, July 28. Class 19.
Koch Supplies: *See*— Starr, Raymond H.
Kops Bros. Inc., New York, N. Y. Foundation garments. Serial No. 630,136, July 28. Class 39.
Kozak: *See*— Walker, Edward C.
Krafft, Julia S., doing business as Honey Bear Farm, Genoa City, Wis. Cups and mugs made of China or ceramic ware. Serial Nos. 637,450–1, July 28. Class 30.
Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Wrist watch bands. Serial No. 615,391, July 28. Class 28.
Kremers-Urban Company, Milwaukee, Wis. Vasodilator designed for use in treatment of Raynaud's disease, etc. Serial No. 625,741, July 28. Class 18.
Kress, S. H., and Company, New York, N. Y. Kid hair curlers. Serial No. 642,444, July 28. Class 40.
Lambert Company, The, doing business as John Hudson Moore Co., Jersey City, N. J., and New York, N. Y. Solidified after shaving lotion, cologne and deodorant. Serial No. 630,137, July 28. Class 51.
Lancer Shirt Company, Los Angeles, Calif. Men's sport and dress outer shirts. Serial No. 633,110, July 28. Class 39.
Lane, Arthur F., Ridgewood, N. J. Chlorophyll toothpaste and ammoniated chlorophyll tooth-paste. Serial No. 641,785, July 28. Class 51.
La Resista Corset Company, The, Bridgeport, Conn. Brassières, ladies' foundation undergarments, and ladies' bathing suits. Serial No. 642,147, July 28. Class 39.
Leichter, Emil, Watch Company Inc., New York, N. Y. Watches, watch springs, and parts thereof. Serial No. 642,960, July 28. Class 27.
Lelong, Lucien, Inc., Chicago, Ill. Perfumes and colognes. Serial No. 634,793, July 28. Class 51.
Levy, Morris, doing business as The Faith Co., Philadelphia, Pa. Electrical fire alarm signal stations. Serial No. 627,072, July 28. Class 21.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial No. 638,728, July 28. Class 18.
Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Electric ranges, and electric water heaters. Serial No. 627,585, July 28. Class 21.
Liquid Veneer Corporation, Buffalo, N. Y. Glazed china containers. Serial No. 620,426, July 28. Class 30.
Little America Frozen Foods, Inc., Pittsburgh, Pa. Frozen vegetables. Serial No. 621,474, July 28. Class 46.
Lowenstein, M., & Sons, Inc., New York, N. Y. Piece goods. Serial No. 640,749, July 28. Class 42.
Magic Pantry Co., Los Angeles, Calif. Deep freezers. Serial No. 623,610, July 28. Class 31.
Magikist Service Corporation, Chicago, Ill. Cleaning, dyeing, renovating of carpets, rugs and the like. Serial No. 583,542, July 28. Class 103.
Magnet Cove Barium Corporation, Bellaire, Tex. Cellophane flakes for use in drilling mud. Serial No. 629,904, July 28. Class 1.
Mallon Chemical Corp., New York, N. Y. Medicines for the treatment of rectal and vaginal disorders. Serial No. 641,313, July 28. Class 18.
Marathon Corporation, Menasha, Wis. Modified carbohydrate compounds. Serial No. 644,675, July 28. Class 6.
Markel, L. Frank, & Sons, Norristown, Pa. Extruded plastic tubings, used as electrical insulation. Serial No. 581,199, July 28. Class 21.
Mason City Tent and Awning Co., Mason City, Iowa. Fitted canvas cover for tractors. Serial No. 586,293, July 28. Class 23.
Master Builders Company, The, Cleveland, Ohio. Composition to be used as an ingredient for cement mixes and masonry mortar mixes. Serial No. 639,381, July 28. Class 12.
Master Builders Company, The, Cleveland, Ohio. Asphalt composition. Serial No. 640,465, July 28. Class 12.
Mathieson Chemical Corporation, assignee: *See*— Squibb, E. R., & Sons.
Mathieson Chemical Corporation, New York, N. Y. Preparation for the prevention and treatment of animal scours. Serial No. 641,561, July 28. Class 18.
Mathieson Chemical Corporation, Baltimore, Md. Ethylene oxide, ethylene glycol, diethylene glycol, etc. Serial No. 644,678, July 28. Class 6.
Maureen Manufacturing Company, Chicago, Ill. Collapsible hats. Serial No. 622,161, July 28. Class 39.
Mayer Co. Inc., The: *See*— Mayer Company, Inc., The.
Mayer Company, Inc., The, also known as The Mayer Co. Inc., New York, N. Y. Women's and misses' hosiery. Serial No. 639,432, July 28. Class 39.
McNeil Laboratories, Incorporated, Philadelphia, Pa. Vitamin preparation. Serial No. 625,285, July 28. Class 18.
Merck & Co., Inc.: *See*— Sharp & Dohme Incorporated.
Merrick Medicine Co., The: *See*— Merrick Medicine Company.
Merrick Medicine Company, also doing business as The Merrick Medicine Co., Waco, Tex. Astringent for sour stomach, heartburn, acid eructations, etc. Serial No. 638,428, July 28. Class 18.
Metropolitan Laboratories, Inc., Oyster Bay, N. Y. Injectable medicament. Serial No. 615,845, July 28. Class 18.
Miami Daily News, Inc., The, Miami, Fla. Weekly newspaper feature. Serial No. 628,548, July 28. Class 38.
Michigan Bean Company, Saginaw, Mich. Lentils, dried peas and dried beans. Serial No. 617,047, July 28. Class 46.
Midwest Dental Manufacturing Co.: *See*— Staunt, Martin.
Midwest Processing Company, Pampa, Tex. Paraffin solvent. Serial No. 644,431, July 28. Class 6.
Miller & Co., Denver, Colo. Men's, women's and children's outer shirts, pants, belts, etc. Serial No. 629,446, July 28. Class 39.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Adhesive. Serial No. 641,854, July 28. Class 5.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Chemical composition. Serial No. 644,185, July 28. Class 6.
Minnesota Rubber and Gasket Co., St. Louis Park, Minn. Seal rings. Serial No. 644,561, July 28. Class 35.
Moore, John Hudson, Co.: *See*— Lambert Company, The.

Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Cotton duck, cotton piece goods, rayon piece goods, etc. Serial No. 642,083, July 28. Class 42.

Moussalli, Alexis, Paris (Seine), France. Ampules, tablets and drops for oral use in the treatment of heart disease, etc. Serial No. 619,208, July 28. Class 18.

Nashua Corporation: *See*—
Nashua Gummed and Coated Paper Company.

Nashua Gummed and Coated Paper Company, Nashua, N. H., now by change of name, Nashua Corporation. Electric-motor driven and electrically controlled machines. Serial No. 626,402 July 28. Class 21.

National Mattress Company, Huntington, W. Va. Cots. Serial No. 580,496, July 28. Class 32.

National Plastic Products Company, The, Odenton, Md. Chair leg tips. Serial No. 640,575, July 28. Class 32.

National Poultry Equipment Company, Seattle, Wash. Electrically driven egg cleaners, and egg candling lights. Serial No. 599,384, July 28. Class 21.

National Rural Electric Cooperative Association, Washington, D. C. Magazine column. Serial No. 628,640, July 28. Class 38.

National Silk Company, Incorporated, The, South Coventry, Conn. Threads, yarns and novelty yarns. Serial Nos. 643,175–7, July 28. Class 43.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. Serial No. 642,156, July 28. Class 42.

Nedick's, Inc., New York, N. Y., assignor to Cantrell & Cochrane Corporation. Non-alcoholic, maltless, cola flavored beverage. Serial No. 631,216, July 28. Class 45.

Neusterer Co., The, Denver, Colo. Dresses, wraps, jackets, coats, etc. Serial No. 632,952, July 28. Class 39.

New York Herald Tribune Inc., New York, N. Y. Newspaper column. Serial No. 642,684, July 28. Class 38.

Nopco Chemical Company, Harrison, N. J. Calcium pantothenate. Serial No. 623,672, July 28. Class 18.

Norris Inc., Atlanta, Ga. Candy. Serial No. 636,145, July 28. Class 46.

North American Aviation, Inc., Los Angeles, Calif. Aircraft. Serial No. 642,364, July 28. Class 19.

Northern Milling Company, Wausau, Wis. Dairy, cattle, stock, swine, pigeon and horse feeds; cornmeal, etc. Serial No. 627,760, July 28. Class 46.

Nuclear Products Company, Costa Mesa, Calif. Probes and brushes with ionizing means for causing the dissipation of static electric charges. Serial No. 625,862, July 28. Class 21.

Nuodex Products Co., Inc., Elizabeth, N. J. Catalyzer. Serial No. 635,426 July 28. Class 6.

Nyhan, Vince B., doing business as Vince B. Nyhan Co., Chicago, Ill. Chemical. Serial No. 635,846, July 28. Class 6.

Nyhan, Vince B., Co.: *See*—
Nyhan, Vince B.

Oakley, Annie, Enterprises, Inc., Los Angeles, Calif. Umbrellas. Serial No. 637,742, July 28. Class 41.

Oldbury Electro-Chemical Company, Niagara Falls, N. Y. Phosphorus compounds, chlorates, perchlorates, etc. Serial No. 644,056, July 28. Class 6.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverware or tableware storage chests. Serial No. 632,486, July 28. Class 2.

Park Adams Incorporated, Plainfield, N. J. Nose drops. Serial No. 631,393, July 28. Class 18.

Park Green & Company Limited, London, England. Domestic table pepper mills. Serial No. 627,596, July 28. Class 23.

Pearl-Preview Shoe Co., Philadelphia, Pa. Women's shoes. Serial No. 639,187, July 28. Class 39.

Peiron Corporation, Lyons, Ill. Cutting compounds, nonabrasive grinding compounds and drawing compounds, quenching oils, etc. Serial No. 634,752, July 28. Class 15.

Pennsylvania Refining Company, Butler, Pa. Self emulsifying highly refined petroleum oil used to eliminate and inhibit the growth of secondary leaves on tobacco plants. Serial No. 635,052, July 28. Class 6.

Penny Spot Company, Midland, Mich. Spot removing preparations. Serial No. 631,889, July 28. Class 52.

Peters & Russell, Inc., Springfield, Ohio. Automobile headlight shields. Serial No. 630,613, July 28. Class 21.

Photoptic Import Corp., New York, N. Y. Photographic cameras and accessories. Serial Nos. 640,959–60, July 28. Class 26.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 641,570, July 28. Class 18.

Pierce Laboratory, Inc., Raritan, N. J. Thermostats. Serial No. 609,312, July 28. Class 26.

Piggly Wiggly Corporation, Jacksonville, Fla. Coffee, tea, fresh eggs, etc. Serial No. 617,729, July 28. Class 46.

Pipeline Protection Company, Denver, Colo. Corrosion inhibiting impregnated fabric tapes for wrap-around application to pipes or the like. Serial Nos. 570,883–4, July 28. Class 12.

Plycrete Builders, Inc., Portland, Oreg. Concrete slabs; concrete rings and caps, concrete building blocks, etc. Serial No. 633,072, July 28. Class 12.

Polaroid Corporation, Cambridge, Mass. Photographic albums and picture mounts. Serial No. 631,568, July 28. Class 37.

Polaroid Corporation, Cambridge, Mass. Photographic albums and picture mounts. Serial No. 631,573, July 28. Class 37.

Poupko, Morris, doing business under the name and style of Williamstown Hosiery Mills, Williamstown, N. J. Hosiery and slips, panties, underwear, etc. Serial No. 636,733, July 28. Class 39.

Price, Burton S., doing business as Enzrust Co., Newton, Mass. Engine fuel additive. Serial No. 638,312, July 28. Class 15.

Procter & Gamble Company, The, Cincinnati, Ohio. Shortening. Serial No. 636,950, July 28. Class 46.

Propper Manufacturing Company, Inc., Long Island City, N. Y. Wound clips. Serial No. 639,657, July 28. Class 44.

Protective Treatments, Inc., Dayton, Ohio. Liquid plastic bandage. Serial No. 642,162, July 28. Class 18.

Protective Treatments, Inc., Dayton, Ohio. Liquid surgical dressing. Serial No. 642,163, July 28. Class 18.

Pure Oil Company, The, Chicago, Ill. Chemically treated polishing cloth, chrome polish, and cleaner and polish, etc. Serial No. 604,227, July 28. Class 4.

Quaker Pacific Rubber Company, San Francisco, Calif. Fire hose, water hose, packing material. Serial No. 642,303, July 28. Class 35.

R-J Enclosures, Inc., New York, N. Y. Acoustical loudspeaker enclosure cabinets. Serial No. 641,087, July 28. Class 32.

Raroltel Chemical Co. Inc., Raritan, N. J. Resin adhesives. Serial No. 634,340, July 28. Class 5.

Rassenfoss Bag Company, Glenview, Ill. Plastic garment storage bag. Serial No. 643,186, July 28. Class 2.

Republic Oil Refining Company, Pittsburgh, Pa. Gasoline and lubricating oil. Serial No. 642,571, July 28. Class 15.

Richmond Engineering Co., Inc., Richmond, Va. Metal tanks. Serial No. 631,999, July 28. Class 2.

Ric-Wil Company, The, Cleveland, Ohio. Ceramic tile, ceramic sewer and drain pipe, ceramic culvert pipe, etc. Serial No. 633,075, July 28. Class 12.

Riki of California, Inc., Jersey City, N. J. Men's top coats, overcoats, storm coats, etc. Serial No. 638,313, July 28. Class 39.

Robbin, Meyer, doing business as Robbin Products Los Angeles, Calif. Wrist watches. Serial No. 633,467, July 28. Class 27.

Robbin Products: *See*—
Robbin, Meyer.

Robbins, Allen, New York, N. Y. Cut flowers, foliage, and natural flowers. Serial No. 638,779, July 28. Class 1.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Metal valves and cocks. Serial No. 624,850, July 28. Class 13.

Rotareed Corporation, The, Bronxville, N. Y. De-aeration apparatus. Serial No. 634,658, July 28. Class 23.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Asbestos-cement siding. Serial No. 638,105, July 28. Class 12.

Safeway Stores, Incorporated, Oakland, Calif. Cookies. Serial No. 641,410, July 28. Class 46.

Sales Affiliates, Inc., New York, N. Y. Hair waving lotion. Serial No. 623,259, July 28. Class 51.

San Yalle Tile Kilns: *See*—
Greenebaum, Sam.

Sau-Sea Foods, Inc., Yonkers, N. Y. Frozen cooked shrimp; canned shrimp cocktail; shrimp cocktail sauce. Serial No. 636,610, July 28. Class 46.

Schenley Distillers, Inc., New York, N. Y. Whiskey. Serial No. 642,050, July 28. Class 49.

Seamprufe Incorporated, New York, N. Y. Women's and misses' hosiery. Serial No. 607,644, July 28. Class 39.

Senco Products, Inc., Cincinnati, Ohio. Staples. Serial No. 642,092, July 28. Class 13.

Senco Products, Inc., Cincinnati, Ohio. Staplers and pneumatic tackers. Serial No. 642,093, July 28. Class 23.

Sharktoon Boats Manufacturing Co.: *See*—
Fuertes, Luis R.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Antibiotic containing preparation. Serial No. 641,210, July 28. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Medicinal preparation. Serial No. 641,211, July 28. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Hematinic preparation. Serial No. 641,212, July 28. Class 18.

Sheiden-Cole, Inc., Rockford, Ill. Synthetic resinous soil conditioning agents. Serial No. 633,334, July 28. Class 10.

Shush Mfg. Co.: *See*—
Kempel, George P.

Singer Manufacturing Company, The, Elizabeth, N. J. Room heaters and fans. Serial No. 630,162, July 28. Class 34.

Singer Manufacturing Company, The, Elizabeth, N. J. Thermoplastic material. Serial No. 640,133, July 28. Class 1.



Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Men's, women's, misses' and children's caps; hats, shoes; gloves, etc. Serial No. 638,320, July 28. Class 39.

Skrebba-Werk, Kommanditgesellschaft, Lahr/Schwarzwald, Germany. Stapling machines, staplers, tacking hammers, etc. Serial No. 623,524, July 28. Class 23.

Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Dental cement. Serial No. 638,874, July 28. Class 44.

Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Dental impression material. Serial No. 638,876, July 28. Class 44.

Smith, Robert E., Hollywood, Calif. Liquid lanolin compound. Serial No. 642,426, July 28. Class 51.

Smith, T. J., & Nephew, Limited, Hull, England. Medicated dressings. Serial No. 634,809, July 28. Class 18.

Smoler, Boris, & Sons, Inc., Chicago, Ill. Women's dresses. Serial No. 638,445, July 28. Class 39.

Societe Anonyme de la Vieille Cure de Cenon, Cenon, France. Alcoholic cordials and liqueurs. Serial No. 546,244, July 28. Class 49.

Societe Anonyme Societe Universelle de Produits Chimiques et d'Explosifs, The, Paris, France. Products and compositions which will emit and liberate oxygen. Serial No. 632,699, July 28. Class 6.

Societe d'Exploitation Verriere Beauce Bourgogne, Paris, France. Glassware. Serial No. 617,558, July 28. Class 33.

Societe Le Carbone Lorraine, Paris, France. Carbon gland rings, carbon linings and inserts, and carbon packing rings. Serial No. 638,331, July 28. Class 35.

Soil-Tone Corporation, Plymouth, N. C. Fertilizer. Serial No. 642,701, July 28. Class 10.

Southern Biscuit Company: *See*—
Weston Biscuit Company Inc.

Southern Cotton Oil Company, The, New Orleans, La. Vegetable shortening or fat. Serial No. 642,909, July 28. Class 46.

Southwestern Portland Cement Company, Los Angeles, Calif. Cements. Serial No. 634,612, July 28. Class 12.

Sporting Goods Publishing Company, The, St. Louis, Mo. Annual publication. Serial No. 640,055, July 28. Class 38.

Sporting News Publishing Company, Inc., The, St. Louis, Mo. Newspaper column. Serial No. 640,054, July 28. Class 38.

Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Hormonal preparations. Serial No. 608,259, July 28. Class 18.

Stahmer, Bernhardt, doing business under the trade name of Industrial Electrical works, Omaha, Nebr. Potato chips. Serial No. 596,813, July 28. Class 46.

Stahmer, Bernhardt, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Potato chips. Serial No. 596,877, July 28. Class 46.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Starting fuel. Serial No. 641,578, July 28. Class 15.

Stanley Home Products, Inc., Westfield, Mass. Liquid material for cleansing the pores of the body. Serial No. 630,454, July 28. Class 52.

Stanley Home Products, Inc., Westfield, Mass. Cosmetics. Serial Nos. 638,555–6, July 28. Class 51.

Starr, Raymond H., doing business as Koch Supplies, Kansas City, Mo. Preparation to kill rats. Serial No. 642,245, July 28. Class 6.

Startime, Inc., New York, N. Y. Women's and misses' dresses and evening gowns. Serial No. 642,175, July 28. Class 39.

Staunt, Martin, doing business as Midwest Dental Manufacturing Co., Chicago, Ill. Dental hand pieces. Serial No. 640,709, July 28. Class 44.

Stein, Donald E., doing business under the name of Columbia Engineering Service Co., San Francisco, Calif. Magnets, permanent magnets and magnetic traps, etc. Serial No. 619,315, July 28. Class 21.

Stenor Limited, Richmond, England. Electrically heated vulcanizing machines, apparatus and parts therefor. Serial No. 632,452, July 28. Class 21.

Stensgaard, W. L., and Associates, Inc., Chicago, Ill. Mental stands. Serial No. 632,453, July 28. Class 32.

Stern Brothers, New York, N. Y. Shoe racks and hat racks. Serial No. 639,494, July 28. Class 13.

Stetson, John B., Company, Philadelphia, Pa. Purses, bill folds, wallets and ladies' handbags. Serial No. 642,176, July 28. Class 3.

Stirton, Marguerite A., doing business under the name and style of Adele Apron Co., Oak Park, Ill. Aprons. Serial No. 636,576, July 28. Class 39.

Stolz Freres, S. A., Fabrique D'Horlogerie Angelus, Le Locle, Switzerland. Watches, chronometers with automatic calendar. Serial No. 634,499, July 28. Class 27.

Stone, Bob, Cordage Company, The, Charlton, Iowa. Binder twine and baler twine. Serial No. 642,317, July 28. Class 7.

Storkline Furniture Corporation, Chicago, Ill. Infants' nursery, and juvenile furniture. Serial No. 638,168, July 28. Class 32.

Strawsine, Fern A., doing business as Strawsine Manufacturing Company, Corunna, Mich. Trailer coach all weather roof ventilators. Serial No. 613,200, July 28. Class 19.

Strawsine Manufacturing Company: *See*—
Strawsine, Fern A.

Strohmeyer & Arpe Company, New York, N. Y. Japan wax. Serial No. 641,807, July 28. Class 6.

Studio Guild Products Company, Chicago, Ill. Strips of sponge rubber. Serial No. 618,517, July 28. Class 50.

Style Supplies Manufacturers, Inc., New York, N. Y. Belt backing. Serial No. 643,004, July 28. Class 40.

Supplee-Biddle-Steltz Company, Philadelphia, Pa. Catalogues. Serial No. 642,848, July 28. Class 38.

Surpass Leather Company, Philadelphia, Pa. Leather. Serial No. 632,540, July 28. Class 1.

Surveyor's Service Company, Los Angeles, Calif. Surveying instruments. Serial No. 623,780, July 28. Class 26.

Suzanne Laboratories, Inc., Paterson, N. J. Perfume. Serial No. 631,899, July 28. Class 51.

Suzanne's Parisian Furs, Inc., Jamaica, N. Y. Fur coats. Serial No. 631,384, July 28. Class 39.

Swartwout Company, The, Cleveland, Ohio. Pump control valves and governors, feed water regulating valves, differential valves, etc. Serial No. 621,233, July 28. Class 13.

Swiveller Company, Inc., New York, N. Y. Electrical lighting fixtures and parts thereof. Serial No. 639,596, July 28. Class 21.

Tailortex Blouse, Inc., Newburgh, N. Y. Women's, misses', and children's blouses, nightgowns, slips, etc. Serial No. 641,399, July 28. Class 39.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 641,989, July 28. Class 42.

Techno Efficiency Council, Inc., Brooklyn, N. Y. Men's, women's, and children's footwear. Serial No. 638,742, July 28. Class 39.

Tec-Imports, Van Nuys, Calif. Open-ended, ratchet, plug, torque and pipe wrenches. Serial No. 640,477, July 28. Class 23.

Tenny Pharmacy, Inc., New York, N. Y. Preparation for the treatment of athlete's foot. Serial No. 625,374, July 28. Class 18.

Thermoid Chemical Co., Trenton, N. J. Reaction product of sulfur and a mixture of phenanthrenic and vegetable fatty acids. Serial No. 640,822, July 28. Class 6.

Thomas & Co., Inc., Seattle, Wash. Beads, pearl jewelry, and pearls. Serial No. 644,883, July 28. Class 28.

Thompson, Harold J., doing business as B. & L. Laboratories, Minneapolis, Minn. Dental articulators. Serial No. 629,755, July 28. Class 44.

Thornton, Maude M., Buffalo, N. Y. Catamenial napkins. Serial No. 640,242, July 28. Class 44.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil. Serial No. 633,005, July 28. Class 15.

Times-Picayune Publishing Company, The, New Orleans, La. Newspaper magazine section. Serial No. 599,463, July 28. Class 38.

Toni Company, The: *See*—
Gillette Company, The.

Treo Company, Inc., Jamaica, N. Y. Corsets, girdles and foundation garments. Serial No. 639,675, July 28. Class 39.

Trilla's Products, Inc., Chicago, Ill. Additives for lubricating oils. Serial No. 604,238, July 28. Class 15.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Union Metal Manufacturing Company, The, Canton, Ohio. Vertical multi-tray rotary stand. Serial No. 632,805, July 28. Class 32.

Union Sand and Supply Corporation, The, Painesville, Ohio. Prepared lightweight concrete building blocks. Serial No. 599,868, July 28. Class 12.

United Elastic Corporation, Easthampton, Mass. Woven elastic webbing. Serial No. 634,387, July 28. Class 42.

United Hosiery Mills Corporation, Chattanooga, Tenn. Polo shirts, cardigans, shorts, etc. Serial No. 642,055, July 28. Class 39.

United Specialties Company, assignee: *See*—
Grills, Leo J.

United States Gypsum Company, Chicago, Ill. Basement sash, metal arches, steel roof deck, etc. Serial No. 621,040, July 28. Class 12.

United States Radium Corporation, New York, N. Y. Self-luminous material. Serial No. 637,802, July 28. Class 6.

United States Rubber Company, New York, N. Y. Mattresa cores. Serial No. 635,796, July 28. Class 32.

United States Rubber Company, New York, N. Y. Molded or dipped women's gaiters. Serial No. 640,536, July 28. Class 39.

United Wallpaper Inc., Chicago, Ill. Moisture proof paper cartons and cups. Serial No. 624,619, July 28. Class 2.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 641,533, July 28. Class 18.

Vendome Watch Yve M. Gurtner, Corcelles, Switzerland. Watches and parts of watches. Serial No. 641,404, July 28. Class 27.

Vitro Corporation of America, New York, N. Y. Magnetic induction flowmeters. Serial No. 640,825, July 28. Class 26.

Walker, Edward C., doing business under the name and style of Kozak, Batavia, N. Y. Cellulose sponges. Serial No. 638,457, July 28. Class 1.

Wallace & Tiernan Products, Inc., Belleville, N. J. Anesthetic. Serial No. 641,753, July 28. Class 18.

Wander Company, The, Chicago, Ill. Analgesic preparation. Serial No. 623,775, July 28. Class 18.
Ward Leonard Electric Company, Mount Vernon, N. Y. Electrical resistors. Serial No. 634,503, July 28. Class 21.
Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, The, London, England. Silver wares. Serial No. 631,081, July 28. Class 28.
Weatherwood Manufacturing Co., Orange, Tex. Furniture. Serial No. 642,057, July 28. Class 32.
Wella Corporation, The, New York, N. Y. Electrical hair waving machines and clamps, etc. Serial No. 627,414, July 28. Class 44.
Wembley, Inc., New Orleans, La. Men's necktles and scarfs. Serial No. 636,620, July 28. Class 39.
Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cakes, cookies, and crackers. Serial No. 636,263, July 28. Class 46.
Weyerhaeuser Timber Company, Tacoma, Wash. Transportation of general cargo by steamship. Serial No. 638,114, July 28. Class 105.
Wild, Henry, Surveying Instruments Supply Company of America, Inc., Brooklyn, N. Y. Microscopes, telescopes, chronographs, etc. Serial No. 620,705, July 28. Class 26.
Wilke Laboratories, West Plains, Mo. Veterinary preparations. Serial No. 630,824, July 28. Class 18.
Williamstown Hosiery Mills: *See*—
Poupko, Morris.
Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.
Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. Serial No. 476,589, July 28. Class 19.
Wilson Rubber Company, The, Canton, Ohio. Household and industrial gloves. Serial No. 617,566, July 28. Class 39.
Wilson Rubber Company, The, Canton, Ohio. Household and industrial gloves. Serial No. 617,508, July 28. Class 39.
Wolff Appliance Corp., Long Island City, N. Y. Tissue dispensing boxes, hampers; baskets; etc. Serial No. 579,463, July 28. Class 2.
Wolter, Hubert, doing business as Wolter & Sons, Chicago, Ill. Forgings in the form of flower stands, plant stands, vase stands, etc. Serial No. 582,454, July 28. Class 32.
Wolter & Sons: *See*—
Wolter, Hubert.
Wolverine Knitting Mills, Bay City, Mich. Blouses, underwear and sleeping garments. Serial No. 634,131, July 28. Class 39.
Wood, G. H., and Company Limited, Etobiocoke and Toronto, Ontario, Canada. Silver cleaner. Serial No. 636,826, July 28. Class 52.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Acidity stabilizing compound. Serial No. 643,990, July 28. Class 6.
Yardley & Company Limited, London and Stratford, London, England. Toilet water. Serial No. 641,879, July 28. Class 51.
Zenith Radio Corporation, Chicago, Ill. Electrical hearing aids and parts thereof. Serial No. 644,705, July 28. Class 44.
Zero Manufacturing Co., Ltd., assignee: *See*—
Fowler, Owen P.
Zero Soap: *See*—
Fowler, Owen P.
Zonolite Company, Chicago, Ill. Construction insulation compound. Serial No. 623,696, July 28. Class 12.

# LIST OF REGISTRANTS OF TRADE-MARKS

AP Parts Corporation, The, Toledo, Ohio. Halogenated hydrocarbon liquid carriers. 578,008, July 28, Serial No. 634,957, published May 12, 1953. Class 6.
Abbott Laboratories, North Chicago, Ill. Disposable, ready-to-use unit for the intravenous administration or withdrawal of fluids, etc. 578,009, July 28; Serial No. 634,958, published Apr. 28, 1953. Class 44.
Acme Chemical Company, Milwaukee, Wis. Flour dressing. 306,627, renewed Sept. 26, 1953. O. G. July 28. Class 52.
Aldens, Inc., Chicago, Ill. Bicycles, motor scooters, and motorcycles. 578,110, July 28; Serial No. 611,609. Class 19.
Aluminum Building Products, Incorporated, Jacksonville, Fla. Roofing materials. 577,848, July 28; Serial No. 598,821, published Apr. 28, 1953. Class 12.
Alvin Corporation, The, Providence, R. I. Sterling silver hollowware and sterling silver flatware. 577,953, July 28; Serial No. 631,034, published Oct. 21, 1952. Class 28.
American Air Filter Company, Inc., Louisville, Ky. Self-cleaning mechanical dust collectors. 578,052, July 28; Serial No. 637,811, published May 5, 1953. Class 31.
American Air Filter Company, Inc., Louisville, Ky. Rolls of fiber glass and cotton wadding. 578,120, July 28; Serial No. 631,841. Class 1.
American Enka Corporation, Enka, N. C. Rayon yarns. 337,651, Aug. 18, 1936. Republished July 28. Class 43.
American Hard Rubber Company, Hempstead and New York, N. Y. Soft vinyl chloride tubing. 578,020, July 28; Serial No. 635,340, published Apr. 21, 1953. Class 1.
American Home Products Corporation: *See*—
S. M. A. Corporation.
American Plastics Corporation, New York, N. Y. Phenol formaldehyde, casein formaldehyde, urea formaldehyde, etc. 303,857, renewed June 13, 1953. O. G. July 28. Class 6.
American Pulley Company, The, Philadelphia, Pa. Rubber lagging. 578,100, July 28; Serial No. 642,724, published May 12, 1953. Class 35.
American Ribbon & Carbon Co., Inc., Rochester, N. Y. Typewriter ribbons and carbon paper. 577,988, July 28; Serial No. 634,231, published May 5, 1953. Class 11.
American Ribbon & Carbon Co., Inc., Rochester, N. Y. Duplicating inks, carbon paper, and typewriter ribbons. 578,002, July 28; Serial No. 634,725, published May 5, 1953. Class 11.
American Rolex Watch Corporation, The, New York, N. Y. Watch crystals. 577,931, July 28; Serial No. 627,859, published Apr. 21, 1953. Class 33.
American Snuff Company, Memphis, Tenn. Snuff. 577,827–9, July 28; Serial Nos. 566,524–6, published Apr. 1, 1952. Class 17.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, Pittsburgh, Pa., Chicago, Ill., New York, N. Y., Worcester, Mass., and Hoboken, N. J., to United States Steel Corporation, Pittsburgh, Pa. Wire. 304,160, renewed June 20, 1953. O. G. July 28. Class 14.
Anchor Rubber Company, assignor to The Anchor Rubber Company, Dayon, Ohio. Belting and hose. 577,905, July 28; Serial No. 623,703, published May 12, 1953. Class 35.
Anchor Rubber Company, The, assignee: *See*—
Anchor Rubber Company.
Archer Mills, Inc., Columbus, Ga. Ladies' hosiery. 578,037, July 28; Serial No. 636,580, published May 5, 1953. Class 39.
Armour and Company, Chicago, Ill. Shortening. 577,927, July 28; Serial No. 627,165, published Apr. 21, 1953. Class 46.
Armstrong Products Corporation, Huntington, W. Va. Electric ironing machines. 578,017, July 28; Serial No. 635,168, published Apr. 28, 1953. Class 24.
Arnold, S. M., Inc., St. Louis, Mo. Car wash mitts. 578,119, July 28; Serial No. 628,389. Class 29.
Aspegren & Co., New York, N. Y., to The Procter & Gamble Company, Cincinnati, Ohio. Cotton-seed oil. 91,449, re-renewed May 6, 1953. O. G. July 28. Class 46.
Attorney General of the United States, vested in: *See*—
Deutsche Gold- & Silber-Scheideanstalt.
Austam Manufacturing Corporation, New York, N. Y. Cigarette lighters. 578,038, July 28; Serial No. 636,624, published May 5, 1953. Class 8.
Avco Manufacturing Corporation: *See*—
Crosley Radio Corporation, The.
Baker Oil Tools, Inc., Los Angeles, Calif. Well drilling tools and equipment. 367,436, May 16, 1939. Republished July 28. Class 23.
Baltimore Belting Company, by Baltimore Belting Company, Baltimore, Md. Leather belting. 302,351, Apr. 11, 1933. Republished July 28. Class 35.
Barfield Groves, The: *See*—
Barfield, Mrs. Blanche R.
Barfield, Mrs. Blanche R., doing business as The Barfield Groves, Polk City, Fla. Fresh grapefruit and oranges. 578,118, July 28; Serial No. 628,087. Class 46.
Barry Laboratories, Inc., Detroit, Mich. Bulb type dispenser for dispensing medicaments. 577,990, July 28; Serial No. 634,302, published Apr. 28, 1953. Class 44.
Battenfeld Grease & Oil Corp., The, Kansas City, Mo. Caulking compound. 344,132, Mar. 16, 1937. Republished July 28. Class 12.
Baudecroux, Paul, by rescindment of vesting order from L'Administration de L'Enregistrement des Domaines et du Timbre, Paris and Vichy, France. Lipsticks. 577,834, July 28; Serial No. 580,728, published Aug. 26, 1952. Class 51.
Beach Soap Company, Lawrence, Mass. Material for use in connection with the washing of textiles. 577,961, July 28; Serial No. 631,646, published May 12, 1953. Class 6.
Beauty Lift Company: *See*—
Courtney, William F.
Becker, Hermann, G. m. b. H., Pforzheim, Germany. Wrist watches. 578,084, July 28; Serial No. 639,549, published Apr. 28, 1953. Class 27.



Beckerman, George, Great Neck, N. Y. Women's and misses' nightgowns, and negligee and nightgown ensembles. 577,902, July 28; Serial No. 631,781, published May 5, 1953. Class 39.
Berkshire Knitting Mills, Wyomissing and Reading, Pa. Women's full-fashioned hosiery. 577,907, July 28; Serial No. 623,869, published May 5, 1953. Class 39.
Berlinger, Max H., doing business as Traxam Products Co., Seattle, Wash., to W. A. Betterly, Fall River, Mass. Face conditioner. 305,895, renewed Aug. 29, 1953. O. G. July 28. Class 51.
Betterly, Warren A.: *See*—
Berlinger, Max H.
Betterly, Warren A., doing business as The M. A. E. Co., Fall River, Mass. Chemical composition. 577,972, July 28; Serial No. 633,031, published May 12, 1953. Class 6.
Billings & Spencer Company, The: *See*—
Coes Wrench Company.
Billings & Spencer Company, The, Hartford, Conn. Golf clubs. 290,638, Jan. 12, 1932. Republished July 28. Class 22.
Billings & Spencer Company, The, Hartford, Conn. Golf clubs. 290,507, Aug. 9, 1932. Republished July 28. Class 22.
Bisceglia Bros., San Jose, to Bisceglia Brothers Wine Co., Fresno, Calif. Still wines, sparkling wines, fermented wines, etc. 306,516, renewed Sept. 19, 1953. O. G. July 28. Class 47.
Bisceglia Brothers Wine Co.: *See*—
Bisceglia Bros.
Bishop, G. H., Company, Chicago, Ill. Liquid soap making unit comprising a tank equipped with a steam-operated circulator. 577,833, July 28; Serial No. 604,352, published Apr. 21, 1953. Class 34.
Blake Manufacturing Co., Springfield, to Blake Manufacturing Corporation, Clinton, Mass. Flash lights. 250,797, renewed Dec. 18, 1948. O. G. July 28. Class 21.
Blake Manufacturing Corporation: *See*—
Blake Manufacturing Co.
Blue Rock Quarry, Cumberland Mills, Maine. Road building mixes. 578,108, July 28; Serial No. 585,782. Class 12.
Bodegas Franco-Espanolas, Logrono, Spain. Wines. 303,760, renewed June 6, 1953. O. G. July 28. Class 47.
Bodegas Franco-Espanolas, Logrono, Spain. Wines. 306,036, renewed Sept. 5, 1953. O. G. July 28. Class 47.
Bolta Products Sales, Inc., Lawrence, Mass. Plastic coated wallboard. 578,050, July 28; Serial No. 637,746, published Apr. 28, 1953. Class 12.
Bonnet-Brown Corporation, The, Chicago, Ill., to NEA Service, Inc., Cleveland, Ohio. Comic strips. 307,241, renewed Oct. 17, 1953. O. G. July 28. Class 38.
Boone Valley Farm, Defiance, Mo. Field grains. 577,863, July 28; Serial No. 609,160, published May 5, 1953. Class 46.
Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Anhydrous sodium tetraborate. 577,959, July 28; Serial No. 631,534, published May 12, 1953. Class 6.
Borax Consolidated, Limited, London, England, and Los Angeles, Calif. Sodium tetrahorate pentahydrate 577,960, July 28; Serial No. 631,535, published May 12, 1953. Class 6.
Boston Cooler Co., The: *See*—
Boyer, Ralph B.
Boyer, Ralph B., doing business as The Boston Cooler Co., Paris, Ill. Maltless non-alcoholic soft drink beverages. 578,114, July 28; Serial No. 617,483. Class 45.
Boyles, Truman, Mattress Company, Alexandria, Va. Mattresses and box springs. 578,011, July 28; Serial No. 635,007, published May 12, 1953. Class 32.
Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes. 577,852, July 28; Serial No. 603,759, published May 12, 1953. Class 17.
Buck Engineering Company, Inc., Freehold, N. J. Racks, stands and tables. 577,854, July 28; Serial No. 604,354, published May 5, 1953. Class 32.
Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Typewriter ribbons, carbon paper, carbonized rolls. 577,861, July 28; Serial No. 608,743, published May 5, 1953. Class 11.
Bulletin Company, Philadelphia, Pa. Newspaper articles. 302,574, renewed Apr. 25, 1953. O. G. July 28. Class 38.
Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. 578,045, July 28; Serial No. 637,360, published May 5, 1953. Class 39.
Burn-Strauss, Inc., Los Angeles, Calif. Supports in the form of tripods. 577,970, July 28; Serial No. 633,709, published May 12, 1953. Class 32.
Butterfield, Fred, & Co., Inc., New York, N. Y., by Merrimack Manufacturing Company (1952), Lowell, Mass. Cotton, linen, silk, etc., in the piece. 269,073, Mar. 25, 1930. Republished July 28. Class 42.
Calbest Milk Co.: *See*—
Meyenberg Laboratories, Inc.
California Chemical Corporation, San Bernardino, Calif. Chemical ingredients. 577,873, July 28; Serial No. 611,559, published May 12, 1953. Class 6.
California Raisin Company, Fresno, Calif. Raisins. 577,894 July 28; Serial No. 620,300, published Apr. 21, 1953. Class 46.
Cardinal China Co., Carteret, N. J. China dishes. 578,136, July 28; Serial No. 646,202. Class 30.
Cardinal Products Corp., Hollywood, Fla. Fungistatic composition for eliminating mildew in closets, and the like. 578,133, July 28; Serial No. 640,390. Class 6.
Carolina Metal Products, Inc., Charlotte, N. C. Folding chairs. 578,083, July 28; Serial No. 639,464, published May 12, 1953. Class 32.
Carpenter, Geo. B., & Co., to Geo. B. Carpenter & Co., Chicago, Ill. Cotton duck. 86,380, re-renewed May 7, 1952. O. G. July 28. Class 42.
Carter Carburetor Corporation, St. Louis, Mo. Internal combustion engine and automotive accessories and parts. 577,838, July 28; Serial No. 580,956, published Apr. 21, 1953. Class 23
Caryl Leslie Creations, Philadelphia, Pa. Pantie girdles. 577,888, July 28; Serial No. 619,248, published May 5, 1953. Class 39.
Champion Textile Finishing Co., Chicago, Ill. Liquid inhibitant for treating fabric. 577,915, July 28; Serial No. 624,999, published May 12, 1953. Class 6.
Chase, Sallie, Incorporated, Newtown, Conn. Fruit cake, stuffed dates, pfeffernuesse cookies, etc. 578,089, July 28; Serial No. 639,807, published May 5, 1953. Class 46.
Chem Products, Inc., Hartford, Conn. Coating material. 577,858, July 28; Serial No. 606,698, published May 5, 1953. Class 16.
Chicago Automatic Fire Control, Great Falls, Mont. Fire-extinguishers. 578,043, July 28; Serial No. 637,241, published Apr. 21, 1953. Class 23
Chicago Musical Instrument Co., Chicago, Ill. String instruments. 303,312, renewed May 23, 1953. O. G. July 28. Class 36.
Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Rennet preparations for making rennet desserts. 577,886, July 28; Serial No. 619,083, published Apr. 21, 1953. Class 46.
Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Rennet preparations for making rennet desserts. 577,887, July 28; Serial No. 619,085, published Apr. 21, 1953. Class 46.
Ciba Limited, Basel, Switzerland. Chemical products, flame proofing agents. 578,097, July 28; Serial No. 642,016, published May 12, 1953. Class 6.
Coes Wrench Company, Worcester, Mass., by The Billings & Spencer Company, Hartford, Conn. Wrenches. 88,616, Oct. 8, 1912. Republished July 28. Class 23.
Cohen, Edward, Pittsburgh, Pa. Mattresses, bed springs, beds, etc. 577,989, July 28; Serial No. 634,299, published May 5, 1953. Class 32.
Collord, Incorporated, Detroit, Mich. Dipped rubber weatherproofing boots to cover shafts of electrical devices, etc. 578,122, July 28; Serial No. 629,088. Class 21.
Collord, Incorporated, Detroit, Mich. Dipped rubber weatherproofing boots to cover shafts, levers, links and springs, etc. 578,123, July 28; Serial No. 629,089. Class 23.
Colonial Knife Company, Inc., Providence, R. I. Table knives, paring knives, bread knives, etc. 577,846, July 28; Serial No. 596,983, published Jan. 20, 1953. Class 23.
Comet Envelope & Paper Co., Inc., New York, N. Y. Pliofilm bags. 578,116, July 28; Serial No. 620,592. Class 2.
Comfort Spring Corporation, Baltimore, Md. Mattresses. 578,073, July 28; Serial No. 638,900, published May 12, 1953. Class 32.
Con-Cor Paint Company, Kansas City, Mo. Oil-base, exterior wall coating. 577,974, July 28; Serial No. 633,301, published May 5, 1953. Class 16.
Congoleum-Nairn Inc., Kearny, N. J. Flexible floor and wall coverings. 577,941, July 28; Serial No. 629,652, published May 5, 1953. Class 20.
Congost, Juan Molifulleda, to Destillerias Molifulleda, S. A., Arenys de Mar, Barcelona, Spain. Ethyl alcohol, brandies, whiskeys, rum, etc. 299,890, renewed Dec. 27, 1952. O. G. July 28. Class 49.
Continental-Caoutchouc- und Gutta-Percha-Compagnie, to Continental Gummiwerke Aktiengesellschaft, Hannover, Germany. Sheetings of rubber-proofed fabrics. 88,065, re-renewed Aug. 27, 1952. O. G. July 28. Class 42.
Continental Gummiwerke Aktiengesellschaft: *See*—
Continental-Caoutchouc- und Gutta-Percha-Compagnie
Cook Chemical Company, Kansas City, Mo. Insecticides, fungicides. 577,975, July 28; Serial No. 633,448, published May 12, 1953. Class 6.
Corhart Refractories Company, Louisville, Ky. Refractory blocks, bricks, and bodies of special shape for furnaces. 577,910, July 28; Serial No. 623,951, published Apr. 28, 1953. Class 12.
Corhart Refractories Company, Louisville, Ky. Crushed refractory grains; mortars; and cements. 577,912, July 28; Serial No. 624,395, published Apr. 28, 1953. Class 12.

Courtney, William F., doing business under the name of Beauty Lift Company, New York, N. Y. Rectangular, slanted, body-supporting board having therapeutical value. 577,859, July 28; Serial No. 607,244, published Apr. 28, 1953. Class 44.

Creed, Daniel P., Co., Darby, Pa. Chemical Preparations designed to dissolve stoppage in drain pipes, etc. 577,825, July 28; Serial No. 557,008, published Feb. 6, 1951. Class 52.

Crosley Radio Corporation, The, to Avco Manufacturing Corporation, Cincinnati, Ohio. Electrical refrigerators. 304,471, renewed July 11, 1953. O. G. July 28. Class 31.

Crown Willamette Paper Company, to Crown Zellerbach Corporation, San Francisco, Calif. Wrapping paper. 307,191, renewed Oct. 17, 1953. O. G. July 28. Class 37.

Crown Zellerbach Corporation: *See*—
Crown Willamette Paper Company

Cuesta, Rey & Co., Tampa, Fla. Cigars. 578,060, July 28; Serial No. 638,135, published May 12, 1953. Class 17.

Curtis Lighting, Inc., Chicago, Ill. Glass reflectors. 304,049, renewed June 20, 1953. O. G. July 28. Class 33.

Cyclo Gear Company Limited, Birmingham, Warwickshire, England. Variable speed gears. 577,839, July 28; Serial No. 589,710, published Jan. 13, 1953. Class 23.

D W G Cigar Corporation: *See*—
Deisel-Wemmer Gilbert Corp., The.

David Woodcraft Co.: *See*—
Ostrow, Nathan.

Dayton Rubber Company, The, Dayton, Ohio. Rubber and fabric vehicle tires. 577,860, July 28; Serial No. 608,700, published May 12, 1953. Class 35.

Deisel-Wemmer Gilbert Corp., The, to D W G Cigar Corporation, Detroit, Mich. Cigars. 305,407, renewed Aug 15, 1953. O. G. July 28. Class 17.

Destilerias Molifulleda, S. A., Arenys de Mar: *See*—
Congost, Juan M.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Nails, chains, band and mechanically operated bells, etc. 301,126, renewed Feb. 21, 1953. O. G. July 28. Class 13.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Paper. 301,127, renewed Feb. 21, 1953. O. G. July 28. Class 37.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Printed sign boards, printed advertising signs and reproductions. 301,128, renewed Feb. 21, 1953. O. G. July 28. Class 38.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Combs, toilet sets comprising combs, mirrors, etc. 301,129, renewed Feb. 21, 1953. O. G. July 28. Class 40.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Umbrellas and canes. 301,130, renewed Feb. 21, 1953. O. G. July 28. Class 41.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Embroideries, draperies, ribbons and laces. 301,131, renewed Feb. 21, 1953. O. G. July 28. Class 42.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Spun yarn fibers. 301,132, renewed Feb. 21, 1953. O. G. July 28. Class 43.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Surgical plasters, adhesive tape, plasters, etc. 301,133, renewed Feb. 21, 1953. O. G. July 28. Class 44.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Mineral waters, non-alcoholic, maltless beverages. 301,134, renewed Feb. 21, 1953. O. G. July 28. Class 45.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, Vested in Attorney General of the United States, Washington, D. C. Rubber bath mats, rubber blankets, rubber binding, etc. 301,135, renewed Feb. 21, 1953. O. G. July 28. Class 50.

De Vry Corporation, Chicago, Ill. Moving-picture and film slide projectors, cameras, etc. 577,904, July 28; Serial No. 623,500, published Mar. 17, 1953. Class 26.

Diamanti, Alphonse, doing business under the name Godi Products Co., East Williston, N. Y. Preparation for making pasta e. faggioli (macaroni and bean soup, Italian style). 578,127, July 28; Serial No. 631,474. Class 46.

Dietz, R. E., Company, Syracuse, N. Y. Oil burning lamps and lanterns, parts thereof, and globes therefor. 577,938, July 28; Serial No. 629,479, published Apr. 28, 1953. Class 34.

Dog Life Corporation, assignee: *See*—
Ottawa Foods.

Dow Corning Corporation, Midland, Mich. High temperature paints, weather resistant paints, resins for formulating paints, etc. 577,889, July 28; Serial No. 619,817, published May 5, 1953. Class 16.

Drexel Furniture Company, Drexel, N. C. Serving cart. 577,964, July 28; Serial No. 632,419, published May 12, 1953. Class 32.

Drexel Furniture Company, Drexel, N. C. Bedroom and dining room furniture. 577,980, July 28; Serial No. 633,722, published May 12, 1953. Class 32.

Dual-Art Products Co.: *See*—
Marlowe, Alfred V.

Dubrow-Zieff, Inc., Boston, Mass. Children's dresses, and blouses. 578,024, July 28; Serial No. 635,748, published Apr. 21, 1953. Class 39.

Duffy, Mary E., Miami, Fla. Ceramic trays and urns. 577,864, July 28; Serial No. 609,235, published May 12, 1953. Class 30.

Dupli-Color Products Co., Inc., Chicago, Ill. Plastic coating sprays. 577,890, July 28; Serial No. 619,930, published May 5, 1953. Class 16.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Sodium cyanide. 578,096, July 28; Serial No. 641,372, published May 12, 1953. Class 6.

Eagle Roller Mill Co., New Ulm, Minn. Wheat flour, cream farina; and pure buckwheat flour, etc. 577,818, July 28; Serial No. 527,025, published Jan. 31, 1950. Class 46.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic electric flash lighting apparatus and parts thereof, etc. 577,857, July 28; Serial No. 606,212, published Mar. 24, 1953. Class 26.

Eastman Kodak Company, Flemington, N. J. and Rochester, N. Y. Synthetic staple fiber. 577,997, July 28; Serial No. 634,525, published Apr. 14, 1953. Class 1.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Sensitized photographic film. 578,062, July 28; Serial No. 638,409, published May 12, 1953. Class 26.

Economics Laboratory, Inc., St. Paul, Minn., assignor to Simoniz Company, Chicago, Ill. Dishwashing compound. 577,826, July 28; Serial No. 559,592, published Sept. 23, 1952. Class 52.

Efef Trading Company: *See*—
Friedman, Salom.

Electric Storage Battery Company, The, Philadelphia, Pa. Electric storage battery separators and retainers. 302,823, renewed May 2, 1953. O. G. July 28. Class 21.

Emporia Wholesale Coffee Company, The, Emporia, Kans. Coffee. 578,120, July 28; Serial No. 628,749. Class 46.

Emulso Corporation, Buffalo, N. Y. Preparation for restoring the original lustre of varnished and other surfaces. 305,412, renewed Aug. 15, 1953. O. G. July 28. Class 6.

Engis Equipment Company, Chicago, Ill. Abrasive. 429,024, Apr. 15, 1947. Republished July 28. Class 4.

Essential Chemicals Co., Inc., The, assignee: *See*—
Ottawa Chemical Company, The.

Faber, Eberhard Pencil Company, Brooklyn, N. Y. Lead pencils. 307,230, renewed Oct. 17, 1953. O. G. July 28. Class 37.

Feleh & Co Inc., Providence, R. I. Brooches, bracelets, earrings, etc. 577,935, July 28; Serial No. 628,853, published Apr. 28, 1953. Class 28.

Fir Door Institute, Tacoma, Wash. Fir doors. 578,102–4, July 28; Serial No. 632,778–80, published Apr. 28, 1953. Class 12.

Flex-O-Laters, Inc., Carthage, Mo. Metal spring wire pads used in articles of furniture. 577,835, July 28; Serial No. 580,779, published May 5, 1953. Class 32.

Flour Mills of America, Inc.: *See*—
Kansas Flour Mills Corporation, The.
Valier & Spies Milling Co.

Food Machinery and Chemical Corporation, San Jose, Calif. Spraying and dusting machines. 577,833, July 28; Serial No. 579,088, published Apr. 1, 1952. Class 23.

Fooderaft Products: *See*—
United Buyers Corporation.

Fox, John A., doing business as Pathon Manufacturing Company, Cincinnati, Ohio. Fluid pressure operated cylinders. 577,882, July 28; Serial No. 617,284, published Jan 6, 1953. Class 23.

Frager, A. M., & Co.: *See*—
Frager, Alfred M.

Frager, Alfred M., doing business as A. M. Frager & Co., St. Louis, Mo. Ladies' hosiery. 578,032, July 28; Serial No. 636,228, published May 5, 1953. Class 39.

Franklin Furniture Company, The, Columbiana, Ohio. Household furniture. 577,881, July 28; Serial No. 617,144, published May 5, 1953. Class 32.

Freeman Chemical Corporation, Saukville, Wis. Varnishes and synthetic resins. 577,900, July 28; Serial No. 622,493, published May 5, 1953. Class 16.

Freeman, H., & Son, Inc., Philadelphia, Pa. Men's suits, sportcoats, and outercoats. 578,021, July 28; Serial No. 635,644, published Apr. 21, 1953. Class 39.

Friedlander, Thomas A., Baltimore, Md. Seating furniture and seating furniture frames. 577,992–4, July 28; Serial No. 634,461–3, published May 5, 1953. Class 32.



Friedman, Salom, doing business under the name of Efef Trading Company, New York, N. Y. Ladies' hosiery. 578,039, July 28; Serial No. 630,699, published May 5, 1953. Class 39.

Galax Knitting Company, Inc., Galax, Va. Men's hosiery. 578,025, July 28; Serial No. 635,759, published Apr. 28, 1953. Class 39.

Galef, J. L., and Son, Inc., New York, N. Y. Handcuffs. 577,918, July 28; Serial No. 625,731, published Apr. 28, 1953. Class 25.

Galvanic Products Corporation, Valley Stream, N. Y. Rechargeable batteries, battery chargers, rectifiers. 578,124, July 28; Serial No. 629,106. Class 21.

Gamble-Skogmo, Inc., Minneapolis, Minn. Men's suits, topcoats, overcoats, etc. 577,836, July 28; Serial No. 582,040, published Oct. 24, 1950. Class 39.

Gates Rubber Company, The, Denver, Colo. Radiator hose. 577,940, July 28; Serial No. 629,565, published May 12, 1953. Class 35.

Geigy Company, Inc., New York, N. Y. Preparation for destroying insects and vermin. 577,875, July 28; Serial No. 612,736, published May 12, 1953. Class 6.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 578,065, July 28; Serial No. 638,644, published Apr. 21, 1953. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 578,066–9, July 28; Serial Nos. 638,711–14, published Apr. 21, 1953. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 578,077, July 28; Serial No. 639,032, published Apr. 28, 1953. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 578,092–3, July 28; Serial Nos. 640,117–18, published Apr. 28, 1953. Class 28.

General Electric Company, Schenectady, N. Y. Organosiloxane resin paint ingredients; organosiloxane fluids for use in paints, etc. 577,949, July 28; Serial No. 630,886, published May 5, 1953. Class 16.

General Electric Company, Schenectady, N. Y. Organosiloxane resin paint ingredients; organosiloxane fluids for use in paints, etc. 577,950, July 28; Serial No. 630,888, published May 5, 1953. Class 16.

General Machinery Corporation, Sheboygan, Wis. Machines for cutting and slicing loaf-like edible commodities and parts thereof. 577,921, July 28; Serial No. 626,374, published Apr. 21, 1953. Class 23.

Girard Paint and Varnish Mfg. Co., Philadelphia, Pa. Flat wall paints, exterior house paints, exterior house paint primers, etc. 578,022, July 28; Serial No. 635,648, published May 5, 1953. Class 16.

Giurlani, A., & Bro., San Francisco, Calif. Olive oil. 327,989, Sept. 10, 1935. Republished July 28. Class 46.

Giurlani, A., & Bro., San Francisco, Calif. Olive oil. 377,096, Apr. 16, 1940. Republished July 28. Class 46.

Globe Auto Glass Co., Chicago, Ill. Safety glass. 577,924, July 28; Serial No. 626,873, published Apr. 28, 1953. Class 33.

Globe Auto Glass Co., Chicago, Ill. Safety glass. 577,925, July 28; Serial No. 626,874, published May 12, 1953. Class 33.

Gluck, Daniel, Woodmere, N. Y. Hypodermic syringes. 578,035, July 28; Serial No. 636,475, published May 12, 1953. Class 44.

Godi Products Co: *See*—
Diamanti, Alphonse.

Golden State Brush Company, North Hollywood, Calif. Paint brushes. 577,943, July 28; Serial No. 630,265, published May 5, 1953. Class 29.

Gorham Manufacturing Company, Providence, R. I. Sterling silver flatware and table cutlery. 578,063, July 28; Serial No. 638,578, published Apr. 21, 1953. Class 28.

Gothé, David E., New York, N. Y. Perfume, toilet water, eau de cologne. 578,128, July 28; Serial No. 631,661. Class 51.

Gradex, Inc., Rochester, N. Y. Photographic apparatus. 577,902, July 28; Serial No. 622,934, published Mar. 17, 1953. Class 26.

Grant, W. T., Company, New York, N. Y. Women's and misses' blouses, dresses, sweaters, etc. 578,029, July 28; Serial No. 635,915, published May 5, 1953. Class 39.

Greenview Manufacturing Company, Chicago, Ill. Window cleaners of the squeegee type and parts thereof. 305,534, renewed Aug. 22, 1953. O. G. July 28. Class 29.

Gritton, Blanche, Chicago, Ill. Women's and children's wearing apparel. 577,862, July 28; Serial No. 609,128, published May 5, 1953. Class 39.

Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. 578,004, July 28; Serial No. 634,783, published May 12, 1953. Class 27.

H & S Sales Company, Eureka, Ill. Protective spray coating. 577,901, July 28; Serial No. 622,594, published May 5, 1953. Class 16.

Haas, Charles J., Incorporated, Philadelphia, Pa. Chemical preparation. 578,006, July 28; Serial No. 634,846, published May 12, 1953. Class 6.

Haggar Company, Dallas, Tex. Men's slacks. 578,019, July 28; Serial No. 635,262, published Mar. 31, 1953. Class 39.

Halold Company, The, Rochester, N. Y. Electrophotographic copying machines, cameras, etc. 578,091, July 28; Serial No. 638,142, published May 12, 1953. Class 26.

Hammermill Paper Company, Erie, Pa. Paper pulp. 577,998, July 28; Serial No. 634,591, published Apr. 21, 1953. Class 1.

Hancock, John, Manufacturing Company, San Diego, Calif. Indoor and outdoor furniture. 577,908, July 28; Serial No. 623,886, published May 5, 1953. Class 32.

Hardy, Robert P., Miami, Fla. Skin lotion. 578,115, July 28; Serial No. 618,394. Class 51.

Hart & Cooley Manufacturing Co., Holland, Mich. Air conditioning and furnace accessories. 577,914, July 28; Serial No. 624,828, published Apr. 28, 1953. Class 34.

Hebb Leather Co., Inc., Boston, Mass. Leather. 578,131, July 28; Serial No. 636,566. Class 1.

Highland Hereford Breeder's Association, Marfa, Tex. Live calves and yearlings. 578,105, July 28; Serial No. 633,582, published Apr. 21, 1953. Class 1.

Holmes, Robert, & Bros. Inc., Danville, Ill. Dryers. 577,872, July 28; Serial No. 611,359, published Apr. 21, 1953. Class 34.

Hoover Limited, Perivale, Greenford, England. Washing machines and parts therefor. 578,094, July 28; Serial No. 640,158, published Apr. 28, 1953. Class 24.

Horowitz & Efron, Inc., New York, N. Y. Children's slacks, pants, and leggings. 577,851, July 28; Serial No. 603,616, published Apr. 21, 1953. Class 39.

Hosiery Sales Company, New York, N. Y. Ladies' and misses' hosiery. 577,995 July 28; Serial No. 634,469, published May 5, 1953. Class 39.

Howard Rose Company, Hemet, Calif. Rose bushes. 578,126, July 28; Serial No. 630,732. Class 1.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Spray hose, valve and plunger leathers. 578,099, July 28; Serial No. 642,649, published May 12, 1953. Class 35.

Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. 578,090, July 28; Serial No. 639,822, published May 5, 1953. Class 19.

Hudson Motor Car Company, Detroit, Mich. Automobiles and automobile bodies. 578,091, July 28; Serial No. 639,824, published May 5, 1953. Class 19.

Hurlbut Paper Company, South Lee, Mass. Writing and printing paper. 285,681, Aug. 4, 1931. Republished July 28. Class 37.

Indestructible Pearl Bead Makers, Inc., New York, N. Y. Artificial pearls. 577,958, July 28; Serial No. 631,422, published May 12, 1953. Class 28.

International Cellucotton Products Company, Chicago, Ill. Wrapping material for use principally as outer covering for sanitary pads. 577,982, July 28; Serial No. 633,936, published Apr. 28, 1953. Class 44.

International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros. Sofas, chairs and living-room suites. 577,822, July 28; Serial No. 546,145, published May 12, 1953. Class 32.

International Telephone and Telegraph Corporation, New York, N. Y. Telephone switching systems and apparatus therefor, telephone subscribers station-apparatus, etc. 577,874, July 28; Serial No. 612,077, published May 12, 1953. Class 21.

Interwoven Stocking Co., assignee: *See*—
Milwaukee Knitting Mills, Inc.

Interwoven Stocking Company: *See*—
Milwaukee Knitting Mills, Inc.

Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. 578,085, July 28; Serial No. 639,641, published May 12, 1953. Class 28.

Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. 578,086, July 28; Serial No. 639,643, published Apr. 28, 1953. Class 28.

Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. 578,087, July 28; Serial No. 639,644, published May 12, 1953. Class 28.

Jacoby-Bender, Inc., New York, N. Y. Watch bracelets. 578,088, July 28; Serial No. 639,645, published Apr. 28, 1953. Class 28.

James Manufacturing Company, Independence, Kans. Dishwashing machines. 577,955, July 28; Serial No. 631,162, published Jan. 6, 1953. Class 23.

Jäschke, Alfred, Holzminden a. d. Weser, Germany. Filter funnels. 577,870, July 28; Serial No. 610,726, published Mar. 31, 1953. Class 31.

Jay Gee Hat Co., Inc., New York, N. Y. Ladies' hats. 307,413, renewed Oct. 24, 1953. O. G. July 28. Class 39.

Jenner, Myron S., doing business as Jen-Products Company, New York, N. Y. Camera attachments and accessories. 577,837, July 28; Serial No. 582,918, published Mar. 17, 1953. Class 26.

Jen-Products Company: *See*—
Jenner, Myron S.

Johnson, Gordon, Company, Kansas City, Mo. Poultry washing machines. 577,945, July 28; Serial No. 630,536, published Dec. 30, 1952. Class 23.

Johnson, Gordon, Company, Kansas City, Mo. Poultry plucking machines and parts thereof. 577,967, July 28; Serial No. 632,615, published Apr. 21, 1953. Class 23.

Justi, H. D., & Son, Inc., Philadelphia, Pa. Artificial teeth. 578,121, July 28; Serial No. 628,946. Class 44.

Kansas Flour Mills Corporation, The, Kansas City, Mo., doing business as The Pratt Mills, Pratt, Kans., by Flour Mills of America, Inc., Kansas City, Mo. Wheat flour. 225,972, Mar. 29, 1927. Republished July 28. Class 46.

Karpen, S., & Bros.: *See*—
International Furniture Company.

Kay-Ess Lighter Corporation, New York, N. Y. Pocket and table cigarette lighters. 577,897, July 28; Serial No. 621,318, published May 5, 1953. Class 8.

Keeley, Muriel R., New York, N. Y. Sprays to raise the nap of suede, etc. 577,906, July 28; Serial No. 623,838, published May 12, 1953. Class 6.

Keiser Manufacturing Company, Reading, Pa. Grass shears. 577,965, July 28; Serial No. 632,431, published Feb. 10, 1953. Class 23.

KeyStone-Fleming, Inc., Lubbock, Tex. Low pressure gas fuel system. 577,840, July 28; Serial No. 593,225, published Apr. 21, 1953. Class 34.

King Research, Inc., Brooklyn, N. Y. Disinfectant. 578,074, July 28; Serial No. 638,910, published May 12, 1953. Class 6.

Klauber Wangenheim Co., San Diego, Calif. Canned vegetables, canned fruits, canned meats, etc. 93,731, renewed Oct. 14, 1953. O. G. July 28. Class 46.

Knoten Company, The, Memphis, Tenn. Synthetic detergent powder. 577,991, July 28; Serial No. 634,413, published May 5, 1953. Class 52.

Knox, Charles B., Company, to Charles B. Knox Gelatin Company, Inc., Johnstown, N. Y. Gelatin. 93,868, re-renewed Oct. 21, 1953. O. G. July 28. Class 46.

Knox, Charles B., Company, to Charles B. Knox Gelatin Company, Inc., Johnstown, N. Y. Gelatin. 94,004, re-renewed Oct. 28, 1953. O. G. July 28. Class 46.

Knox, Charles B., Gelatin Company, Inc.: *See*
Knox, Charles B., Company.

Kramer Bros., Inc.: *See*
Kramer Brothers.

Kramer Brothers, to Kramer Bros., Inc., New York, N. Y. Hosiery. 307,114, renewed Oct. 17, 1953. O. G. July 28. Class 39.

Kres-Kno Oil Burner Manufacturing Company, Inc., assignor to Kresno Stamm Manufacturing Company (America) Inc., Palisades Park, N. J. Oil burners. 444,784, July 28; Serial No. 520,633, published Apr. 6, 1948. Class 34.

Kresno Stamm Manufacturing Company (America) Inc., assignee: *See*—
Kres-Kno Oil Burner Manufacturing Company, Inc.

Krohn, Abraham Z., Brooklyn, N. Y. Surgical circumcising instruments. 578,034, July 28; Serial No. 636,295, published May 12, 1953. Class 44.

L'Administration de L'Enregistrement des Domaines et du Timbre: *See*—
Baudecroux, Paul.

Landau, Abraham, New York, N. Y. Women's and girls' hosiery. 577,987, July 28; Serial No. 634,201, published May 5, 1953. Class 39.

La Resista Corset Company, The, Bridgeport, Conn. Brassières. 578,070, July 28; Serial No. 638,723, published May 5, 1953. Class 39.

Latrobe Electrical Steel Company, by Latrobe Steel Company, Latrobe, Pa. Tool steel. 434,744, Dec. 2, 1947. Republished July 28. Class 14.

Latrobe Steel Company: *See*
Latrobe Electric Steel Company.

Lawrence, A. C., Leather Company, Peabody, Mass., to Swift & Company, Chicago, Ill. Leather. 301,791, Mar. 14, 1933. New certificate. O. G. July 28. Class 1.

Lawter Chemicals, Inc., Chicago, Ill. Fluorescent paint. 577,850, July 28; Serial No. 602,810, published May 5, 1953. Class 16.

Leonards, Fort Worth, Tex. Men's suits, sport coats, and top coats. 577,911, July 28; Serial No. 624,038, published Apr. 28, 1953. Class 39.

Lincoln Manufacturing Company, Inc., New Windsor, Md. Step-ladder. 578,014–15, July 28; Serial Nos. 635,090–1, published Apr. 28, 1953. Class 50.

Lloyd Meter Manufacturing Company, Chicago, Ill. Coin operated time measuring and time controlling switches. 578,023, July 28; Serial No. 635,658, published May 12, 1953. Class 26.

Loamium Co. of America, Harrison, N. J. Chemical preparation. 578,040, July 28; Serial No. 637,066, published May 12, 1953. Class 6.

Lowe, Joe, Corporation, Brooklyn, to Joe Lowe Corporation, New York, N. Y. Stabilizing compound for dough. 305,399, renewed Aug. 15, 1953. O. G. July 28. Class 46.

Lubin-Wecker Co., Inc., New York, N. Y. Pajamas. 307,311, renewed Oct. 24, 1953. O. G. July 28. Class 39.

M. A. E. Co., The: *See*—
Betterly, Warren A.

M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Women's hosiery. 577,884, July 28; Serial No. 617,761, published Apr. 28, 1953. Class 39.

Maintenance Inc., Wooster, Ohio. Corrosion control composition comprising a paint. 577,832, July 28; Serial No. 578,457, published May 5, 1953. Class 16.

Malt-A-Plenty, Inc., Tulsa, Okla. Paper drinking straws. 577,917, July 28; Serial No. 625,482, published May 5, 1953. Class 50.

Manchester Hosiery Mills, Boston, Mass. Ladies' stockings. 577,855, July 28; Serial No. 604,374, published May 5, 1953. Class 39.

Mandl, Sigmund, Milwaukee, Wis., by The New Britain Machine Company, New Britain, Conn. Socket wrenches and socket-wrench sets. 186,808, July 22, 1924. Republished July 28. Class 23.

Mangels, Arthur C., Industries, Philadelphia, Pa. Flat paints. 577,849, July 28; Serial No. 601,329, published May 5, 1953. Class 16.

Manhattan Shirt Company, The, New York, N. Y. Pull overs, or sweaters. 307,165, renewed Oct. 17, 1953. O. G. July 28. Class 39.

Margo Laboratories: *See*—
Syce, Albert A.

Marietta Company: *See*—
Marietta, Michael T.

Marietta, Michael T., doing business as Marietta Company, Dallas, Tex. Football players' plastic masks. 578,132, July 28; Serial No. 638,426. Class 22.

Markson Bros., Boston, Mass. Watches. 578,072, July 28; Serial No. 638,804, published Apr. 28, 1953. Class 27.

Marlowe, Alfred V., doing business under the style of Dual-Art Products Co., Denver, Colo. Denture stain remover. 578,113, July 28; Serial No. 616,859. Class 51.

Martin & Schwartz, Inc., Salisbury, Md., assignor to The Wayne Pump Company. Internal combustion engine fuel and lubricant dispensing pumps. 577,896, July 28; Serial No. 621,155, published Mar. 17, 1953. Class 26.

Maurer, F. W., & Sons Co., Philadelphia, Pa. Shade tassels, shade pulls, shade fringe, etc. 92,093, renewed June 17, 1953. O. G. July 28. Class 40.

McBee Company, The, Athens, Ohio. Machine for segregating notched cards. 577,821, July 28; Serial No. 543,620, published May 5, 1953. Class 26.

Merit Clothing Company, Mayfield, Ky. Men's suits. 577,999, July 28; Serial No. 634,602, published Apr. 7, 1953. Class 39.

Merrimack Manufacturing Company, by Merrimack Manufacturing Company (1952), Lowell, Mass. Printed and dyed calicoes, cloth made from carded and combed cotton yarns, printed and dyed flannels, corduroys, etc. 76,889, Feb. 10, 1910. Republished July 28. Class 42.

Merrimack Manufacturing Company (1952): *See*—
Butterfield, Fred, & Co., Inc.
Merrimack Manufacturing Company.

Meyenberg Laboratories, Inc., doing business as Calbest Milk Co., Salinas, to Meyenberg Milk Products Co., San Francisco, Calif. Canned evaporated milk. 306,368, renewed Sept. 19, 1953. O. G. July 28. Class 46.

Meyenberg Milk Products Co.: *See*—
Meyenberg Laboratories, Inc.

Meyer, Joseph H., Bros., Brooklyn, N. Y. Watches. 578,005, July 28; Serial No. 634,707, published Feb. 10, 1953. Class 27.

Michaels, Stern & Company, Incorporated, Rochester, N. Y. Men's suits and coats. 577,802, July 28; Serial No. 620,163, published Mar. 31, 1953. Class 39.

Micro-Poise Engineering & Sales Company, Detroit, Mich. Machines for testing balance of tires, etc., and also machines for testing and correcting such balance. 577,956, July 28; Serial No. 631,248, published Mar. 24, 1953. Class 26.

Midland Plastic Molding Co., Sandusky, Ohio. Wall tile. 577,942, July 28; Serial No. 629,807, published Apr. 28, 1953. Class 12.

Midwest Metal Stamping Company, The: *See*—
One Minute Washer Company.

Miller and Rhoads, Incorporated, Richmond, Va. Rubber sink mats; carpet pads, cushions, and underlays. 577,903, July 28; Serial No. 623,119, published May 5, 1953. Class 50.

Milwaukee Knitting Mills, Inc., Milwaukee, Wis., assignor to Interwoven Stocking Co., to Interwoven Stocking Company, New Brunswick, N. J. Hosiery. 306,503, renewed Sept. 19, 1953. O. G. July 28. Class 39.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Electrically operated machine employing infrared light source. 577,845, July 28; Serial No. 596,859, published Mar. 17, 1953. Class 26.

Mitchell Rand Mfg. Corp., New York, N. Y. Thermosetting and encapsulating plastic compounds. 578,079, July 28; Serial No. 639,284, published May 12, 1953. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Oil well drilling and mud adjuvants. 577,926, July 28; Serial No. 626,898, published Oct. 14, 1952. Class 6.

Moores Lime Company, The, Springfield, Ohio. Lime. 91,979, re-renewed June 10, 1953. O. G. July 28. Class 12.

Morell Novelty Co., Inc., New York, N. Y. Knitting yarns. 578,033, July 28; Serial No. 630,244, published May 5, 1953. Class 43.

Morrell, John, & Co., Ottumwa, Iowa. Pork sausage. 306,379, renewed Sept. 19, 1953. O. G. July 28. Class 46.



Morrison, Willard L., Lake Forest, Ill. Food storage refrigerators. 577,877, July 28; Serial No. 613,881, published May 5, 1953. Class 31.

NEA Service, Inc.: *See*—
Bonnet-Brown Corporation, The.

Naranjo Packing House Company, Woodlake, Calif. Fresh citrus fruits. 577,820, July 28; Serial No. 540,440, published Apr. 21, 1953. Class 46.

National Automotive Parts Association, Detroit, Mich. Rubber splash guards and rubber automobile mats. 578,106, July 28; Serial No. 634,418, published May 5, 1953. Class 19.

National Electric Instrument Co., Inc., Elmhurst, N. Y. Endoscopic instruments. 577,971, July 28; Serial No. 632,950, published Apr. 28, 1953. Class 44.

National Filter Corporation, New York, N. Y. Filter apparatus and parts thereof. 577,920, July 28; Serial No. 625,994, published May 5, 1953. Class 31.

National Leather Products, Newark, N. J. Glazed saddle leather. 578,018, July 28; Serial No. 635,194, published Apr. 21, 1953. Class 1.

National Spectrographic Laboratories, Inc., Cleveland, Ohio. Excitation apparatus for spectrographs. 578,028, July 28; Serial No. 635,843, published May 12, 1953. Class 26.

National Waterproof Papers, Inc., Camden, N. J. Crinkled or creped multiwall bags and sacks. 578,117, July 28; Serial No. 624,697. Class 2.

New Britain Machine Company, The: *See*—
Mandl, Sigmund.

New Britain Machine Company, The, New Britain, Conn. Socket-wrench sets. 185,962, July 1, 1924. Republished July 28. Class 23.

New Britain Machine Company, The, New Britain, Conn. Automatic and semi-automatic screw and chucking machines. 200,815, July 14, 1925. Republished July 28. Class 23.

New Britain Machine Company, The, New Britain, Conn. Chucking and screw machines. 202,790, Sept. 1, 1925. Republished July 28. Class 23.

Newday Seeds, Inc., to Newday Seedsmen, Inc., Fargo, N. Dak. All types of farm seeds. 302,321, renewed Apr. 11, 1953. O. G. July 28. Class 1.

Newday Seedsmen, Inc.: *See*—
Newday Seeds, Inc.

Newton Washer Co.: *See*—
One Minute Washer Company.

New York Technical Institute, Cincinnati, Ohio. Miniature receivers. 578,051, July 28; Serial No. 637,786, published May 12, 1953. Class 21.

Niagara Apparel Co., Inc.: *See*—
Niagara Overall & Pants Co.

Niagara Overall & Pants Co., to Niagara Apparel Co., Inc., Buffalo, N. Y. Overalls, trousers and shirts. 93,894, re-renewed Oct. 21, 1953. O. G. July 28. Class 39.

Nissen, John P., Jr., Company, Glenside, Pa. Textile ink. 578,042, July 28; Serial No. 637,204, published May 5, 1953. Class 11.

Nopco Chemical Company, Harrison, N. J. Anti-stripping agent for bituminous mixes. 577,867, July 28; Serial No. 609,692, published May 12, 1953. Class 6.

Nopco Chemical Company, Harrison, N. J. Metallic soaps as additives to bituminous compositions. 577,868, July 28; Serial No. 609,693, published May 12, 1953. Class 6.

Nopco Chemical Company, Harrison, N. J. Textile finishing compounds. 578,081, July 28; Serial No. 639,439, published May 12, 1953. Class 6.

Northern Industries, Inc., Milwaukee, Wis. Plastic combination comb holder set and bobby pin trays. 578,109, July 28; Serial No. 587,967. Class 2.

Norwich Pharmacal Company, The, Norwich, N. Y. Antiseptics and germicides. 305,377, renewed Aug. 15, 1953. O. G. July 28. Class 18.

Norwich Pharmacal Company, The, Norwich, N. Y. Antiseptics, germicides and a preparation for oral hygiene. 305,378, renewed Aug. 15, 1953. O. G. July 28. Class 18.

Oertling, L., Limited, London and Orpington, England. Weighing balances. 577,966, July 28; Serial No. 632,485, published Apr. 28, 1953. Class 26.

Omega Louis Brandt & Frère, S. A., Bienne, Switzerland. Watches, clocks, chronometers, etc. 578,041, July 28; Serial No. 637,074, published Apr. 21, 1953. Class 27.

One Minute Washer Company, doing business as Newton Washer Co., Newton, to The Midwest Metal Stamping Company, Kellogg, Iowa. Laundry washing machines. 305,578, renewed Aug. 22, 1953. O. G. July 28. Class 24.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverplated flat and hollow tableware. 577,843, July 28; Serial No. 594,981, published July 1, 1952. Class 28.

Osco Motors Corporation, Philadelphia, Pa. Marine engines and parts thereof, accessories therefor. 577,824, July 28; Serial No. 551,193, published Dec. 30, 1952. Class 23.

Oshkosh Brewing Company: *See*—
Oshkosh Brewing Company, The.

Oshkosh Brewing Company, The, to Oshkosh Brewing Company, Oshkosh, Wis. Beer. 40,988, re-renewed Aug. 25, 1953. O. G. July 28. Class 48.

Ostrow, Nathan, doing business as David Woodcraft Co., New York, N. Y. Wall shelf units. 577,944, July 28; Serial No. 630,511, published May 5, 1953. Class 32.

Ottawa Chemical Company, The, Toledo, Ohio, assignor to The Essential Chemicals Co., Inc., Milwaukee, Wis. Parachlorometaxylenol (3-5-dimethyl-4-chloro-hydroxy benzene or 3,5-dimethyl-4-chlorophenol). 577,936, July 28; Serial No. 628,866, published May 12, 1953. Class 6.

Ottawa Foods, Hamilton, Mich., assignor to Dog Life Corporation, Chicago, Ill. Kibbled dog food, dog biscuits and dog meal. 577,878, July 28; Serial No. 615,282, published May 5, 1953. Class 46.

Overseas Export Corporation, New York, N. Y. Automotive engine parts. 577,879, July 28; Serial No. 615,655, published Feb. 3, 1953. Class 23.

Pahlmann, William C., New York, N. Y. Household furniture. 578,101, July 28; Serial No. 579,829, published Apr. 28, 1953. Class 32.

Palmer, Solon, New York, N. Y., to Solon Palmer, Newark, N. J. Perfume, toilet water, sachet and complexion powder. 92,573, re-renewed July 15, 1953. O. G. July 28. Class 51.

Paragon-Revolute Corporation, Rochester, N. Y. Machines for exposing and developing white prints, etc. 578,049, July 28; Serial No. 637,668, published May 5, 1953. Class 26.

Parfumerie St. Denis, New York, N. Y., to Shulton, Inc., Clifton, N. J. Beauty creams, cold creams, cleansing creams, etc. 307,327, renewed Oct. 24, 1953. O. G. July 28. Class 51.

Parke, Davis & Company, Detroit, Mich. Laxative. 305,326, renewed Aug. 15, 1953. O. G. July 28. Class 18.

Parke, Davis & Company, Detroit, Mich. Antiseptic and germicide. 305,545, renewed Aug. 22, 1953. O. G. July 28. Class 18.

Parke, Davis & Company, Detroit, Mich. Vaporizing device to facilitate inhalation of liquid medicaments. 578,003, July 28; Serial No. 634,750, published Apr. 28, 1953. Class 44.

Pathon Manufacturing Company: *See*—
Fox, John A.

PerfeKtum Products Co.: *See*—
Popper & Sons, Inc.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Organic acid. 578,075, July 28; Serial No. 638,972, published May 12, 1953. Class 6.

Phillips Petroleum Company, Bartlesville, Okla. Top dressing for vehicles, trunks, etc.; dust cloths (chemically treated); and for dry cleaning fluid. 305,395, renewed Aug. 15, 1953. O. G. July 28. Class 52.

Phillips Petroleum Company, Bartlesville, Okla. Storage batteries. 305,466, renewed Aug. 15, 1953. O. G. July 28. Class 21.

Phillips Petroleum Company, Bartlesville, Okla. Radiator cleaner, radiator stop leak, and radiator anti-freeze. 305,656, renewed Aug. 22, 1953. O. G. July 28. Class 52.

Pinaud, Ed., Inc.: *See*—
Pinaud, Incorporated.

Pinaud, Incorporated, to Ed. Pinaud, Inc., New York, N. Y. Hair tonic, toilet water, bath salts, etc. 307,485, renewed Oct. 24, 1953. O. G. July 28. Class 51.

Pine Bros. Inc., Philadelphia, Pa. Glycerine tablets. 578,134, July 28; Serial No. 641,800. Class 18.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Fungicide. 578,056–9, July 28; Serial Nos. 637,945–8, published May 12, 1953. Class 6.

Placematters, Inc., New York, N. Y. Plastic place mats. 578,053, July 28; Serial No. 637,837, published Apr. 21, 1953. Class 50.

Popell Brothers, Inc., Chicago, Ill. Cutlery. 577,929, July 28; Serial No. 627,405, published Apr. 21, 1953. Class 23.

Popper & Sons, Inc., doing business under the name PerfeKtum Products Co., New York, N. Y. Counting machines. 577,932, July 28; Serial No. 628,292, published Mar. 17, 1953. Class 26.

Portable Machinery Company Incorporated, Clifton, N. J. Exercise apparatus. 577,869, July 28; Serial No. 610,096, published Apr. 28, 1953. Class 44.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnish. 79,446, Sept. 6, 1910. Republished July 28. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnish. 79,520, Sept. 13, 1910. Republished July 28. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Liquid drier. 79,522, Sept. 13, 1910. Republished July 28. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Varnish. 80,196, Nov. 15, 1910. Republished July 28. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Enamels, varnishes, stains, fillers. 85,177, Jan. 30, 1912. Republished July 28. Class 16.

Pratt & Lambert, Inc., Buffalo, N. Y. Primer, surfacer, glazing putty, lacquer enamel, etc. 212,182, Apr. 27, 1926. Republished July 28. Classes 12 and 16.

Pratt Mills, The: *See*—
Kansas Flour Mills Corporation, The.

Precision Thermometer & Instrument Company, Philadelphia, Pa. Plummet-type density measuring, density indicating, and density controlling instruments and parts thereof. 577,847, July 28; Serial No. 598,322, published Mar. 17, 1953. Class 26.

Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Conjugated estrogenic substances. 577,939, July 28; Serial No. 629,514, published May 12, 1953. Class 18.

Prescott, J. L., & Co., New York, N. Y., to J. L. Prescott Company, Passaic, N. J. Stove-polish. 41,375, renewed Oct. 27, 1953. O. G. July 28. Class 4.

Prescott, J. L., Company: *See*—
Prescott, J. L., & Co.

Pre-Vest, Inc., Cleveland, Ohio. Investment refractory powder for casting metals. 577,880, July 28; Serial No. 616,336, published Apr. 21, 1953. Class 1.

Procter & Gamble Company, The: *See*—
Aspegren & Co.

Procter & Gamble Company, The, Cincinnati, Ohio. Shortenings. 304,824, renewed July 18, 1953. O. G. July 28. Class 46.

Products Engineering Laboratories Co., Inc., assignee: *See*—
Utilitron Incorporated.

Pulverizing Machinery Company, Summit, N. J. Air filter bags. 577,947, July 28; Serial No. 630,791, published May 5, 1953. Class 31.

Purity Pretzel Company, Harrisburg, Pa. Pretzels and pretzel sticks. 578,064, July 28; Serial No. 638,604, published May 5, 1953. Class 46.

Quigley Company, Inc., New York, N. Y. Plastic neutral base for monolithic construction. 301,895, renewed Mar. 21, 1953. O. G. July 28. Class 12.

Quigley Company, Inc., New York, N. Y. Refractory cement. 303,008, renewed May 9, 1953. O. G. July 28. Class 12.

R. G. D. Corporation, The, New York, N. Y. Table tops, table legs, table bases, etc. 577,909, July 28; Serial No. 623,909, published Apr. 28, 1953. Class 32.

Radiant Manufacturing Corp., Chicago, Ill. Projection screens. 578,044, July 28; Serial No. 637,329, published Apr. 28, 1953. Class 26.

Raytheon Manufacturing Company, Newton, Mass. Apparatus for mensuring distances. 578,048, July 28; Serial No. 637,719, published May 5, 1953. Class 26.

Reardon Company, The, St. Louis, Mo. Paint colors and tints. 577,922, July 28; Serial No. 626,748, published May 5, 1953. Class 16.

Reynolds Electric Co.: *See*—
Reynolds Electric Company.

Reynolds Electric Company, Chicago, to Reynolds Electric Co., River Grove, Ill. Electrical flashers and flasher controls. 302,936, renewed May 2, 1953. O. G. July 28. Class 21.

Richter & Phillips Company, The, Cincinnati, Ohio. Watches. 578,125, July 28; Serial No. 630,439. Class 27.

Rising, B. D., Paper Company, by Rising Paper Company, Housatonic, Mass. Index, pasted, and wedding bristols, bond, ledger, and wedding papers. 239,561, Mar. 6, 1928. Republished July 28. Class 37.

Rising Paper Company: *See*
Rising, B. D., Paper Company.

Ritter Company, Inc.: *See*
Ritter Dental Manufacturing Company, Inc.

Ritter Dental Manufacturing Company, Inc., by Ritter Company, Inc., Rochester, N. Y. Dental and surgical operating lights. 306,340, Sept. 19, 1933. Republished July 28. Class 44.

River Plate Corporation, The, New York, N. Y. Quebracho extract. 578,078, July 28; Serial No. 639,077, published May 12, 1953. Class 6.

Roberts-Jerome Associates, Brooklyn, N. Y. Decorative wall plaques. 577,933, July 28; Serial No. 628,780, published Apr. 21, 1953. Class 50.

Roll Packing House, Chula Vista, Calif. Fresh vegetables. 578,135, July 28; Serial No. 642,692. Class 46.

Rolley: *See*—
Rolley, Inc.

Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Fac. cream. 577,951, July 28; Serial No. 630,958, published Apr. 28, 1953. Class 51.

Ross, Will, Inc., Milwaukee, Wis. Surgical dressing goods. 577,948, July 28; Serial No. 630,796, published Apr. 28, 1953. Class 44.

Russell Manufacturing Company, The, Alexander City, Ala. Ladies' dresses, outer shirts and blouses, and jackets. 577,885, July 28; Serial No. 618,100, published Apr. 28, 1953. Class 39.

S & C Electric Company, Chicago, Ill. Electrical fuses, fuse mountings, bus supports, etc. 577,876, July 28; Serial No. 613,193, published May 12, 1953. Class 21.

S. M. A. Corporation, Cleveland, Ohio, to American Home Products Corporation, doing business as Wyeth Laboratories, Philadelphia, Pa. Protein free maltose and dextrins. 304,095, renewed June 20, 1953. O. G. July 28. Class 18.

Sales Affiliates, Inc., New York, N. Y. Neutralizer in cold wave process of waving hair. 578,111, July 28; Serial No. 613,194. Class 51.

Salvador Rodriguez, Inc., Tampa, Fla. Cigars. 577,981, July 28; Serial No. 633,877, published May 5, 1953. Class 17.

Scharmann, Gustav, to P. G. Scharmann, doing business as Gustav Scharmann, New York, N. Y. Dental burs. 40,918, re-renewed Aug. 11, 1953. O. G. July 28. Class 44.

Scharmann, Paul G.: *See*—
Scharmann, Gustav.

Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical product. 577,952, July 28; Serial No. 631,025, published May 12, 1953. Class 18.

Schneider, Ruth M., Denver, Colo. Combination apron, baby bath towel and child's hooded cape or robe. 578,030, July 28; Serial No. 635,932, published Apr. 21, 1953. Class 39.

Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, knickerbockers, etc. 578,036, July 28; Serial No. 636,543, published Apr. 28, 1953. Class 39.

Schueler & Co., New York, N. Y. Hæmostatic, thumb, tissue, splinter and sponge forceps gauze and bandage scissors, specula, etc. 577,978, July 28; Serial No. 633,633, published Apr. 28, 1953. Class 44.

Schultz, Peter P., Tacoma, Wash. Police clubs. 577,957, July 28; Serial No. 631,314, published Jan. 13, 1953. Class 23.

Scientific Oil Compounding Co. (1952), The: *See*—
Scientific Oil Compounding Co., The.

Scientific Oil Compounding Co., The, by The Scientific Oil Compounding Co. (1952), Chicago, Ill. Compound or composition of bodied officica oil for use in paints and varnishes. 395,072, May 12, 1942. Republished July 28. Class 16.

Scientific Oil Compounding Co., The, by The Scientific Oil Compounding Co. (1952), Chicago, Ill. Compound or composition of bodied officica oil for use in paints and varnishes. 394,552, Apr. 14, 1952. Republished July 28. Class 16.

Scull, William S., Company, Camden, N. J. Blended coffee. 93,247, re-renewed Aug. 26, 1953. O. G. July 28. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Watches, watch movements, watch cases, etc. 577,898, July 28; Serial No. 622,038, published Apr. 28, 1953. Class 27.

Selas Corporation of America, Philadelphia, Pa. Meters for measuring and indicating the flow of fluids, and fluid filters. 577,865, July 28; Serial No. 609,346, published Mar. 24, 1953. Class 26.

Selmix Dispenser Corporation, Long Island City, N. Y., assignor, by mesne assignments, to Selmix Dispensers, Inc. Refrigerated beverage dispensing apparatus and parts thereof. 577,823, July 28; Serial No. 548,537, published May 5, 1953. Class 31.

Selmix Dispensers, Inc., assignee: *See*—
Selmix Dispenser Corporation

Seydel Chemical Company, Nitro, West Va., and Jersey City, N. J., to Seydel Chemical Company, Jersey City, N. J. Medicinal compound. 303,460, renewed May 23, 1953. O. G. July 28. Class 18.

Shatterproof Glass Corporation, Detroit, Mich. Sheet and plate glass. 578,076, July 28; Serial No. 638,979, published Apr. 28, 1953. Class 33.

Shellmar Products Company, to Shellmar Products Corporation, Chicago, Ill. Labels. 303,021, renewed May 9, 1953. O. G. July 28. Class 37.

Shellmar Products Company, to Shellmar Products Corporation, Chicago, Ill. Wrappers, bags, and cartons. 304,495, renewed July 11, 1953. O. G. July 28. Class 2.

Shellmar Products Corporation: *See*—
Shellmar Products Company.

Shulton, Inc.: *See*—
Parfumerie St. Denis.

Silk Screen Supplies, Inc., Brooklyn, N. Y. Screen process materials—namely, silk screen process paints, weatherproof enamel, etc. 577,831, July 28; Serial No. 577,616, published May 5, 1953. Class 16.

Simmons Company, New York, N. Y. Mattresses and box springs. 578,082, July 28; Serial No. 639,444, published May 12, 1953. Class 32.

Simoniz Company, assignee: *See*—
Economics Laboratory, Inc.

Simplicity Manufacturing Company, Port Washington, Wis. Tractors, plows, cultivators, etc. 577,919, July 28; Serial No. 625,869, published Apr. 21, 1953. Class 23.

Slumberland Products Co., Waltham, Mass. Mattresses, box springs, and headboard bed combinations. 578,054–5, July 28; Serial No. 637,890–1, published May 12, 1953. Class 32.

Smith, Alexander, Incorporated, Yonkers, N. Y. Processed land fowl feathers. 578,001, July 28; Serial No. 634,714, published Apr. 21, 1953. Class 1.

Societa Generale delle Conserve Alimentari Cirio, San Giovanni a Teduccio, near Naples, Italy. Canned fruits and canned vegetables. 577,923, July 28; Serial No. 626,756, published Apr. 21, 1953. Class 46.

Society Brand Clothes, Inc., Chicago, Ill. Men's suits. 578,026 July 28; Serial No. 635,703, published Apr. 21, 1953. Class 39.

Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Ready-mixed paint, varnish, enamel, etc. 578,012–13, July 28; Serial Nos. 635,063–4, published May 5, 1953. Class 16.

Sondheim, Herbert, Inc., New York, N. Y. Ladies' and misses' dresses and suits. 577,830, July 28; Serial No. 564,909, published May 5, 1953. Class 39.



Speed Queen Corporation, Ripon, Wis. Laundry equipment. 578,095, July 28; Serial No. 641,217, published Apr. 28, 1953. Class 24.

Spletter, Albert, Washington, D. C. Lubricant. 302,901, renewed May 2, 1953. O. G. July 28. Class 15.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Kerosene. 302,875, renewed May 2, 1953. O. G. July 28. Class 15.

Standard Pressed Steel Co., Jenkintown, Pa. Workdesks, stools, work chairs, etc. 578,031, July 28; Serial No. 635,939, published May 5, 1953. Class 32.

Stein, S., & Co., to S. Stein & Co., Inc., New York, N. Y. Woolen goods in the piece and in cut lengths. 306,556, renewed Sept. 26, 1953. O. G. July 28. Class 42.

Stein, S., & Co., Inc.: *See*—
Stein, S., & Co.

Stephano Brothers, Philadelphia, Pa. Cigarettes. 577,977, July 28; Serial No. 633,594, published May 12, 1953. Class 17.

Stern Brothers, New York, N. Y. Men's suits and coats. 577,976, July 28; Serial No. 633,515, published Mar. 31, 1953. Class 39.

Stone-Tarlow Co., Inc., Brockton, Mass. Leather shoes. 307,001, renewed Oct. 10, 1953. O. G. July 28. Class 39.

Strathmore Paper Company, West Springfield, Mass. All kinds of writing and printing paper. 237,351, Jan. 10, 1928. Republished July 28. Class 37.

Strathmore Paper Company, West Springfield, Mass. All kinds of writing and printing paper. 248,580, Oct. 23, 1928. Republished July 28. Class 37.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 297,916, Oct. 4, 1932. Republished July 28. Class 37.

Stuart, C. W., & Company, Newark, N. Y. China dishes. 577,801, July 28; Serial No. 620,038, published May 12, 1953. Class 30.

Sturgis Posture Chair Company, Sturgis, Mich. Chairs. 578,010, July 28; Serial No. 635,001, published Apr. 28, 1953. Class 32.

Surface Engineering Company, Inc., Wichita, Kans. Clear or pigmented liquid plastic protective and decorative coating composition. 577,968, July 28; Serial No. 632,635, published May 5, 1953. Class 16.

Swift & Company: *See*—
Lawrence, A. C., Leather Company.
Swift Fertilizer Works.

Swift Fertilizer Works, Chicago, Ill., and Atlanta, Ga., to Swift & Company, Chicago, Ill. Prepared or manufactured fertilizers of commerce. 40,330, re-renewed May 12, 1953. O. G. July 28. Class 10.

Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. 577,984–5, July 28; Serial Nos. 634,169–70, published May 5, 1953. Class 17.

Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. 577,986, July 28; Serial No. 634,172, published May 5, 1953. Class 17.

Syre, Albert A., doing business as Margo Laboratories, Oakland, Calif. Preparations for cleaning and polishing furniture. 577,928, July 28; Serial No. 627,361, published May 5, 1953. Class 4.

Table Art Mat Corp., Brooklyn, N. Y. Plastic-coated fabric in the nature of oiled cloth. 577,916, July 28; Serial No. 625,049, published May 12, 1953. Class 20.

Talon, Inc., Meadville, Pa. Fictional doll-like characters. 577,899, July 28; Serial No. 622,180, published May 5, 1953. Class 22.

Tavannes Watch Co., Tavannes, Switzerland. Watches, parts of watches, alarm clocks. 578,000, July 28; Serial No. 634,665, published May 12, 1953. Class 27.

Ten Garden Products Co., San Francisco, Calif. Imitation maple flavor syrup. 577,819, July 28; Serial No. 534,620, published Feb. 10, 1953. Class 46.

Television Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Printed periodicals and magazines. 518,551, Dec. 6, 1949. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in printed periodicals and magazines. 547,252–3, Aug. 28, 1951. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Printed periodicals. 561,686, July 15, 1952. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in printed periodicals and magazines. 565,084, Oct. 7, 1952. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in a periodical. 566,461, Nov. 4, 1952. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in printed periodicals and magazines. 568,058–9, Dec. 16, 1952. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in a periodical. 568,060, Dec. 16, 1952. New certificate. O. G. July 28. Class 38.

TeleVision Guide, Inc., New York, N. Y., to Triangle Publications, Inc., Philadelphia, Pa. Column in a periodical. 568,062, Dec. 16, 1952. New certificate. O. G. July 28. Class 38.

Tennessee Corporation: *See*—
U. S. Phosphoric Products Corporation.

Tennessee Hosiery Mills Co., Nicta, Tenn. Men's, women's, and children's hosiery. 577,954, July 28; Serial No. 631,074, published Apr. 28, 1953. Class 39.

Tennessee Products & Chemical Corporation, Nashville, Tenn. Chemical products and technical preparations. 577,866, July 28; Serial No. 609,571, published May 12, 1953. Class 6.

Titan Metal Manufacturing Company, Bellefonte, Pa. High tensile brass and bronze lavatory handles, bathroom soap dishes, flush valve handles and escutcheons. 304,975–6, renewed July 25, 1953. O. G. July 28. Class 13.

Traxam Products Co.: *See*—
Berlinger, Max H.

Triangle Publications, Inc.: *See*—
TeleVision Guide Inc.

Tuco Work Shops, Incorporated, The, Lockport, N. Y. Picture puzzle games. 391,150, Oct. 28, 1941. Republished July 28. Class 22.

Tuco Work Shops, Incorporated, The, Lockport, N. Y. Picture puzzle games. 393,479, Feb. 17, 1942. Republished July 28. Class 22.

UBC Distributors, Incorporated: *See*—
United Buyers Corporation.

Ullman Company, Inc., The, Brooklyn, N. Y. Plastic place mats. 577,913, July 28; Serial No. 624,617, published Apr. 28, 1953. Class 50.

Ultra Chemical Works Inc., Paterson, N. J. Floor waxes. 578,130, July 28; Serial No. 634,874. Class 4.

United Buyers Corporation, doing business as Foodcraft Products, by UBC Distributors, Incorporated, Chicago, Ill. Canned apricots, pitted red cherries, etc. 344,949, Apr. 13, 1937. Republished July 28. Class 46.

United Buyers Corporation, by UBC Distributors, Incorporated, Chicago, Ill. Canned salmon, coffee, food flavoring extracts, etc. 348,136, July 20, 1937. Republished July 28. Class 46.

United Buyers Corporation, by UBC Distributors, Incorporated, Chicago, Ill. Brooms, mops, scrubbing brushes, and dusters. 380,483, Aug. 20, 1940. Republished July 28. Class 29.

United Sash & Door Company, Wichita, Kans. Linseed oil and turpentine, painters' thinner and solvent, naphtha, etc. 577,844, July 28; Serial No. 595,629, published May 5, 1953. Class 16.

United States Gypsum Company, Chicago, Ill. Metallic clips for attaching building boards. 578,107, July 28; Serial No. 559,123. Class 12.

U. S. Phosphoric Products Corporation, to Tennessee Corporation, New York, N. Y. Insecticides. 306,737, renewed Sept. 26, 1953. O. G. July 28. Class 6.

United States Rubber Company, New York, N. Y. Hose made of rubber, etc. 578,098, July 28; Serial No. 642,499, published May 12, 1953. Class 35.

United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Pump liners and barrels, water tubes for swivels, and plunger pumps. 577,930, July 28; Serial No. 627,472, published Apr. 28, 1953. Class 23.

United States Steel Corporation: *See*—
American Steel and Wire Company of New Jersey, The.
United States Steel Company.

United States Testing Company, Inc., Hoboken, N. J. Water dispersible sheet used in effectuating dyeing or detergent operations. 577,937, July 28; Serial No. 629,400, published May 12, 1953. Class 6.

United States Time Corporation, The, Waterbury and Middlebury, Conn. Watches and watch parts. 578,046, July 28; Serial No. 637,625, published Apr. 21, 1953. Class 27.

Usines de L'Allondon S. A., Le Plaine, Switzerland. Artificial and synthetical perfumes, essential oils. 304,783, renewed July 18, 1953. O. G. July 28. Class 51.

Utilitron Incorporated, New York, N. Y., assignor to Products Engineering Laboratories Co., Inc., Newark, N. J. Combined range coupled flash calculator, exposure meter, and range finder. 577,842, July 28; Serial No. 594,930, published Mar. 17, 1953. Class 26.

Valerie Jewelry, Inc., New York, N. Y. Pearls and costume jewelry. 577,973, July 28; Serial No. 633,130, published May 12, 1953. Class 28.

Valier & Spies Milling Co., St. Louis, to Flour Mills of America, Inc., Kansas City, Mo. Wheat-flour. 91,822, re-renewed May 27, 1953. O. G. July 28. Class 46.

Victor Wood Products Co., Bangor, Mich. Hollywood bed legs. 578,071, July 28; Serial No. 638,747, published May 12, 1953. Class 32.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Preparation in powder form to be added to other ingredients in the preparation of icings, toppings, and the like. 286,104, Aug. 18, 1931. Republished July 28. Class 46.

Vitro Corporation of America, New York, N. Y. Gas-analyzing apparatus. 578,027, July 27; Serial No. 635,798, published May 12, 1953. Class 26.

Vogel Luminescence Corporation, San Francisco, Calif. Egg candler. 578,047, July 28; Serial No. 637,628, published May 5, 1953. Class 26.

Wallace, R., & Sons Manfg. Co., The, Wallingford, Conn. Silver plated hollowware. 577,850, July 28; Serial No. 604,502, published May 12, 1953. Class 28.

Ward Baking Company, New York, N. Y. Bread, rolls, biscuits, cakes, etc. 91,625, re-renewed May 13, 1953. O. G. July 28. Class 46.

Warren Belting Company, Inc., Worcester, Mass. Dressings for power and transmission belting. 577,983, July 28; Serial No. 633,953, published May 12, 1953. Class 6.

Waterman-White, New York, N. Y. Semi-porcelain salad bowls. 578,016, July 28; Serial No. 635,162, published Apr. 28, 1953. Class 30.

Waukesha Motor Company, Waukesha, Wis. Laboratory test engines and parts thereof, fuel testing dynamometer units and parts thereof, etc. 577,871, July 28; Serial No. 610,933, published Mar. 17, 1953. Class 26.

Wayne Pump Company, The, assignee: *See*— Martin & Schwartz, Inc.

Webber Gage Company, Cleveland, Ohio. Gage blocks. 577,970, July 28; Serial No. 632,809, published May 5, 1953. Class 26.

Weevil-Cide Company, The, Kansas City, Mo. Rodenticide. 577,963, July 28; Serial No. 632,187, published May 12, 1953. Class 6.

Wen-Mac Corporation, Beverly Hills, Calif. Glow plug engine fuel. 578,080, July 28; Serial No. 639,352, published May 12, 1953. Class 6.

Wesco Waterpaints, Inc., Berkeley, Calif. Waterpaints. 577,841, July 28; Serial No. 593,509, published May 5, 1953. Class 16.

West Virginia Pulp and Paper Company, New York, N. Y. Fiber board for elertrical insulation. 305,340, renewed Aug. 15, 1953. O. G. July 28. Class 21.

Western Coating Company, Pasadena, Calif. Thermoplastic, rubber-like protective coating composition. 577,883, July 28; Serial No. 617,425, published May 5, 1953. Class 16.

Western Fence & Wire Works, Oreg. Ltd., Portland, Oreg. Pre-cut screens used in gyrating, vibrating and rotating machines. 577,934, July 28; Serial No. 628,835, published Apr. 21, 1953. Class 23.

Westphal, Paul, to Paul Westphal, Inc., New York, N. Y. Perfumes. 40,892, re-renewed Aug. 11, 1953. O. G. July 28. Class 51.

Westphal, Paul, Inc.: *See*— Westphal, Paul.

White, David, Company, Milwaukee, Wis. Stereoscopic cameras and related equipment and accessories, etc. 578,007, July 28; Serial No. 634,875, published Apr. 28, 1953. Class 26.

Whitney Bros. Inc., Boston, Mass. Insulated bags. 578,112, July 28; Serial No. 616,001. Class 2.

Wigder, Bernard, doing business as The Wigder Manufacturing Co., to The Wigder Manufacturing Co., Newark, N. J. Manicure implements. 302,313, renewed Apr. 11, 1953. O. G. July 28. Class 44.

Wigder Manufacturing Co., The: *See*— Wigder, Bernard.

Wilson, Joseph Harvey, Sr., trustee, Murphy, N. C. Hosiery. 577,996, July 28; Serial No. 634,511, published May 5, 1953. Class 39.

Wright, Jesse T., Bountiful, Utah. Noise-free tappet push rod for automobiles. 577,969, July 28; Serial No. 632,765, published Apr. 21, 1953. Class 23.

Wrightwear Limited, Sutton-in-Ashfield, England. Brassières, bodices, garments comprising camisoles and knickers, etc. 577,893, July 28; Serial No. 620,182, published May 5, 1953. Class 39.

Wyeth Laboratories: *See*— S. M. A. Corporation.

Yale & Towne Manufacturing Company, The, Stamford, Conn. Battery chargers. 577,895, July 28; Serial No. 620,983, published May 12, 1953. Class 21.

Zimmach, Wm. F., Inc., Milwaukee, Wis. Oil base flat wall paint. 577,946, July 28; Serial No. 630,561, published May 5, 1953. Class 16.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Investment refractory powder for casting metals. Pro-Vest, Inc. 577,880, July 28; Serial No. 616,336, published Apr. 21, 1953.

Leather. Hebb Leather Co., Inc. 578,131, July 28; Serial No. 636,566.

Leather. A. C. Lawrence Leather Company. 301,791. Mar. 14, 1933. New certificate. O. G. July 28.

Leather, Glazed saddle. National Leather Products. 578,018, July 28; Serial No. 635,194, published Apr. 21, 1953.

Live calves and yearlings. Highland Hereford Breeder's Association. 578,105, July 28; Serial No. 633,582, published Apr. 21, 1953.

Paper pulp. Hammermill Paper Company. 577,998, July 28; Serial No. 634,591, published Apr. 21, 1953.

Processed (and fowl feathers. Alexander Smith, Incorporated. 578,001, July 28; Serial No. 634,714, published Apr. 21, 1953.

Rolls of fiber glass and cotton wadding. American Air Filter Company, Inc. 578,129, July 28; Serial No. 631,841.

Rose bushes. Howard Rose Company. 578,126, July 28; Serial No. 630,732.

Seeds, All types of farm. Newday Seeds, Inc. 302,321, renewed Apr. 11, 1953. O. G. July 28.

Soft vinyl chloride tubing. American Hard Rubber Company. 578,020, July 28; Serial No. 635,340, published Apr. 21, 1953.

Synthetic staple fiber. Eastman Kodak Company. 577,997, July 28; Serial No. 634,525, published Apr. 14, 1953.

## CLASS 2

Bags and sacks, Crinkled or creped multiwall. National Waterproof Papers, Inc. 578,117, July 28; Serial No. 624,697.

Bags, Insulated. Whitney Bros., Inc. 578,112, July 28; Serial No. 616,001.

Bags, Pliofilm. Comet Envelope & Paper Co., Inc. 578,116, July 28; Serial No. 620,592.

Comb holder set and bobby pin trays, Plastic combination. Northern Industries, Inc. 578,109, July 28; Serial No. 587,967.

Wrappers, bags, and cartons. Shellmar Products Company. 304,495, renewed July 11, 1953. O. G. July 28.

## CLASS 4

Abrasive. Engis Equipment Company. 429,024, Apr. 15, 1947. Republished July 28, 1953.

Preparations for cleaning and polishing furniture. A. A. Syce. 577,928, July 28; Serial No. 627,361, published May 5, 1953.

Stove-polish. J. L. Prescott & Co. 41,375, re-renewed Oct. 27, 1953. O. G. July 28.

Waxes, Floor. Ultra Chemical Works Inc. 578,130, July 28; Serial No. 634,874.

## CLASS 6

Anhydrous sodium tetraborate. Borax Consolidated, Limited. 577,959, July 28; Serial No. 631,534, published May 12, 1953.

Anti-stripping agent for bituminous mixes. Nopco Chemical Company. 577,867, July 28; Serial No. 609,692, published May 12, 1953.

Chemical composition. W. A. Betterly. 577,972, July 28; Serial No. 633,031, published May 12, 1953.

Chemical ingredients. California Chemical Corporation. 577,873, July 28; Serial No. 611,559, published May 12, 1953.

Chemical preparation. Charles J. Hana, Incorporated. 578,006, July 28; Serial No. 634,846, published May 12, 1953.

Chemical preparation. Loamium Co. of America. 578,040, July 28; Serial No. 637,006, published May 12, 1953.

Chemical products and technical preparations. Tennessee Products & Chemical Corporation. 577,860, July 28; Serial No. 609,571, published May 12, 1953.

Chemical products flame proofing agents. Ciba Limited. 578,007, July 28; Serial No. 642,016, published May 12, 1953.

Disinfectant. King Research, Inc. 578,074, July 28; Serial No. 638,910, published May 12, 1953.

Dressings for power and transmission belting. Warren Belting Company, Inc. 577,983, July 28; Serial No. 633,953, published May 12, 1953.

Fungicide. Pittsburgh Plate Glass Company. 578,056–9, July 28; Serial Nos. 637,945–8, published May 12, 1953.

Fungistatic composition for eliminating mildew in closets, and the like. Cardinal Products Corp. 578,133, July 28; Serial No. 640,390.

Glow plug engine fuel. Wen-Mac Corporation. 578,080, July 28; Serial No. 639,352, published May 12, 1953.

Halogenated hydrocarbon liquid carriers. The Al Parts Corporation. 578,008, July 28; Serial No. 634,057, published May 12, 1953.

Insecticides. U. S. Phosphoric Products Corporation. 306,737, renewed Sept. 26, 1953. O. G. July 28.

Insertirides, fungicides. Cook Chemical Company. 577,975, July 28; Serial No. 633,448, published May 12, 1953.

Liquid inhibitant for treating fabric. Champion Textile Finishing Co. 577,915, July 28; Serial No. 624,999, published May 12, 1953.

Material for use in connection with the washing of textiles. Beach Soap Company. 577,961, July 28; Serial No. 631,646 published May 12, 1953.

Metallic soaps as additives to bituminous compositions. Nopco Chemical Company. 577,868, July 28; Serial No. 609,693, published May 12, 1953.

Oil well drilling mud adjuvants. Monsanto Chemical Company. 577,926, July 28; Serial No. 626,898, published Oct. 14, 1952.

Organic acid. Chas. Pfizer & Co., Inc. 578,075, July 28; Serial No. 638,072, published May 12, 1953.



Parachlorometaxylenol (3-5 - dimethyl - 4 - chloro-hydroxy benzene or 3,5-dimethyl-4-chlorophenol). The Ottawa Chemical Company. 577,936, July 28; Serial No. 628,866, published May 12, 1953.

Phenol formaldehyde, casein formaldehyde, urea formaldehyde, etc. American Plastics Corporation. 303,857, renewed June 13, 1953. O. G. July 28.

Preparation for destroying insects and vermin. Geigy Company, Inc. 577,875, July 28; Serial No. 612,736, published May 12, 1953.

Preparation for restoring the original lustre of varnished and other surfaces. Emulso Corporation. 305,412, renewed Aug. 15, 1953. O. G. July 28.

Quebracho extract. The River Plate Corporation. 578,078, July 28; Serial No. 639,077, published May 12, 1953.

Rodenticide. The Weevil-Cide Company. 577,963, July 28; Serial No. 632,187, published May 12, 1953.

Sodium cyanide. E. I. du Pont, de Nemours and Company. 578,096, July 28; Serial No. 641,372, published May 12, 1953.

Sodium tetraborate pentahydrate. Borax Consolidated, Limited. 577,960, July 28; Serial No. 631,535, published May 12, 1953.

Sprays to raise the nap of suede, etc. M. R. Keeley. 577,906, July 28; Serial No. 623,838, published May 12, 1953.

Textile finishing compounds. Nopco Chemical Company. 578,081, July 28; Serial No. 639,439, published May 12, 1953.

Thermosetting and encapsulating plastic compounds. Mitchell Hand Mfg. Corp. 578,079, July 28; Serial No. 639,284, published May 12, 1953.

Water dispersible sheet used in effectuating dyeing or detergent operations. United States Testing Company, Inc. 577,937, July 28; Serial No. 629,400, published May 12, 1953.

## CLASS 8

Lighters, Cigarette. Austam Manufacturing Corporation. 578,038, July 28; Serial No. 636,624, published May 5, 1953.

Lighters, Pocket and table cigarette. Kay-Ess Lighter Corporation. 577,897, July 28; Serial No. 621,318, published May 5, 1953.

## CLASS 10

Fertilizers of commerce, Prepared or manufactured. Swift Fertilizer Works. 40,330, re-renewed May 12, 1953. O. G. July 28.

## CLASS 11

Ink, Textile. John P. Nissen, Jr., Company. 578,042 July 28; Serial No. 637,204, published May 5, 1953.

Inks, Duplicating, carbon paper, and typewriter ribbons. American Ribbon & Carbon Co., Inc. 578,002, July 28; Serial No. 634,725, published May 5, 1953.

Typewriter ribbons and carbon paper. American Ribbon & Carbon Co., Inc. 577,988, July 28; Serial No. 634,231, published May 5, 1953.

Typewriter ribbons, carbon paper, carbonized rolls. The Buckeye Ribbon & Carbon Co. 577,861, July 28; Serial No. 608,743, published May 5, 1953.

## CLASS 12

Building mixes, Road. Blue Rock Quarry. 578,108, July 28; Serial No. 585,782.

Caulking compound. The Battenfeld Grease & Oil Corp. 344,132, Mar. 16, 1937. Republished July 28.

Cement, Refractory. Quigley Company, Inc. 303,008 renewed May 9, 1953. O. G. July 28.

Crushed refractory grains; mortars; and cements. Corhart Refractories Company. 577,912, July 28; Serial No. 624,395, published Apr. 28, 1953.

Doors, Fir. Fir Door Institute. 578,102–4, July 28; Serial No. 632,778–80, published Apr. 28, 1953.

Lime. The Moores Lime Company. 01,979, re-renewed June 10, 1953. O. G. July 28.

Metallic clips for attaching building boards. United States Gypsum Company. 578,107, July 28; Serial No. 559,123.

Plastic neutral base for monolithic construction. Quigley Company, Inc. 301,895, renewed Mar. 21, 1953. O. G. July 28.

Primer, surfacer, glazing putty, lacquer enamel, etc. Pratt & Lambert, Inc. 212,182, Apr. 27, 1926. Republished July 28.

Refractory blocks, bricks, and bodies of special shape for furnaces. Corhart Refractories Company. 577,910, July 28; Serial No. 623,951, published Apr. 28, 1953.

Roofing materials. Aluminum Building Products, Incorporated. 577,848, July 28; Serial No. 598,821, published Apr. 28, 1953.

Tile, Wall. Midland Plastic Molding Co. 577,942, July 28; Serial No. 629,807, published Apr. 28, 1953.

Wallboard, Plastic coated. Bolta Products Sales, Inc. 578,050, July 28; Serial No. 637,746, published Apr. 28, 1953.

## CLASS 13

Lavatory handles, High tensile brass and bronze, bathroom soap dishes, flush valve handles and escutcheons. Titan Metal Manufacturing Company. 304,075–6, renewed July 25, 1953. O. G. July 28.

Nails, chains, hand and mechanically operated bells, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,126, renewed Feb. 21, 1953. O. G. July 28.

## CLASS 14

Steel, Tool. Latrobe Electric Steel Company. 434,744, Dec. 2, 1947. Republished July 28.

Wire. The American Steel and Wire Company of New Jersey. 304,160, renewed June 20, 1953. O. G. July 28.

## CLASS 15

Kerosene. Standard Oil Company of California. 302,875, renewed May 2, 1953. O. G. July 28.

Lubricant. A. Spletter. 302,901, renewed May 2, 1953. O. G. July 28.

## CLASS 16

Coating composition, Clear or pigmented liquid plastic protective and decorative. Surface Engineering Company, Inc. 577,968, July 28; Serial No. 632,635, published May 5, 1953.

Coating composition, Thermoplastic, rubber-like protective. Western Coating Company. 577,883, July 28; Serial No. 617,425, published May 5, 1953.

Coating material. Chem Products, Inc. 577,858, July 28; Serial No. 606,698, published May 5, 1953.

Coating, Oil-base, exterior wall. Con-Cor Paint Company. 577,974, July 28; Serial No. 633,301, published May 5, 1953.

Coating, Protective spray. H & S Sales Company. 577,901, July 28; Serial No. 622,594, published May 5, 1953.

Coating sprays, Plastic. Dupli-Color Products Co., Inc. 577,890, July 28; Serial No. 619,030, published May 5, 1953.

Compound or composition of bodied oiticica oil for use in paints and varnishes. The Scientific Oil Compounding Co. 394,552, Apr. 14, 1942. Republished July 28.

Compound or composition of bodied oiticica oil for use in paints and varnishes. The Scientific Oil Compounding Co. 395,072, May 12, 1942. Republished July 28.

Corrosion control composition comprising a paint. Maintenance Inc. 577,832, July 28; Serial No. 578,457, published May 5, 1953.

Enamels, varnishes, stains, fillers. Pratt & Lambert, Inc. 85,177, Jan. 30, 1912. Republished July 28.

Linseed oil and turpentine, painters' thinner and solvent, naphtha, etc. United Sash & Door Company. 577,844, July 28; Serial No. 595,629, published May 5, 1953.

Liquid drier. Pratt & Lambert, Inc. 79,522, Sept. 13, 1910. Republished July 28.

Paint colors and tints. The Reardon Company. 577,922, July 28; Serial No. 626 748, published May 5, 1953.

Paint, Fluorescent. Lawter Chemicals, Inc. 577,850, July 28; Serial No. 602,810, published May 5, 1953.

Paint ingredients; Organosiloxane resin, organosiloxane fluids for use in paints, etc. General Electric Company. 577,949, July 28; Serial No. 630,886, published May 5, 1953.

Paint ingredients; Organosiloxane resin, organosiloxane fluids for use in paints, etc. General Electric Company. 577,950, July 28; Serial No. 630,888, published May 5, 1953.

Paint, Oil base flat wall. Wm. F. Zummach, Inc. 577,946, July 28; Serial No. 630,561, published May 5, 1953.

Paint, Ready-mixed, varnish, enamel, etc. Socony Paint Products Company. 578,012–13, July 28; Serial No. 635,063–4, published May 5, 1953.

Paints, Flat. Arthur C. Mangels, Industries. 577,849, July 28; Serial No. 601,329, published May 5, 1953.

Paints, Flat wall, exterior house paints, exterior house paint primers, etc. Girard Paint and Varnish Mfg. Co. 578,022, July 28; Serial No. 635,648, published May 5, 1953.

Paints, High temperature, weather resistant paints, resins for formulating paints, etc. Dow Corning Corporation. 577,889, July 28; Serial No. 619,817, published May 5, 1953.

Primer, surfacer, glazing putty, lacquer enamel, etc. Pratt & Lambert, Inc. 212,182, Apr. 27, 1926. Republished July 28.

Screen process materials—Namely silk screen process paints, weather-proof enamel, etc. Silk Screen Supplies, Inc. 577,831, July 28; Serial No. 577,616, published May 5, 1953.

Varnish. Pratt & Lambert, Inc. 79,446, Sept. 6, 1910. Republished July 28.

Varnish. Pratt & Lambert, Inc. 79,520, Sept. 13, 1910. Republished July 28.

Varnish. Pratt & Lambert, Inc. 80,196, Nov. 15, 1910. Republished July 28.

Varnishes and synthetic resins. Freeman Chemical Corporation. 577,900, July 28; Serial No. 622,493, published May 5, 1953.

Waterpaints. Wesco Waterpaints, Inc. 577,841, July 28; Serial No. 593,509, published May 5, 1953.

### CLASS 17

Cigarettes. Brown & Williamson Tobacco Corporation. 577,852, July 28; Serial No. 603,759, published May 12, 1953.

Cigarettes. Stephano Brothers. 577,977, July 28; Serial No. 633,594, published May 12, 1953.

Cigars. Cuesta, Rey & Co. 578,090, July 28; Serial No. 638,135, published May 12, 1953.

Cigars. The Deisel-Wemmer Gilbert Corp. 395,407, renewed Aug. 15, 1953. O. G. July 28.

Cigars. Salvador Rodriguez, Inc. 577,981, July 28; Serial No. 633,877, published May 5, 1953.

Cigars. Jno. H. Swisher & Son, Inc. 577,984–5, July 28; Serial Nos. 634,169–70, published May 5, 1953.

Cigars. Jno. H. Swisher & Son, Inc. 577,986, July 28; Serial No. 634,172, published May 5, 1953.

Snuff. American Snuff Company. 577,827–9, July 28; Serial Nos. 560,524–6, published Apr. 1, 1953.

### CLASS 18

Antiseptic and germicide. Parke, Davis & Company. 305,545, renewed Aug. 22, 1953. O. G. July 28.

Antiseptics and germicides. The Norwich Pharmacal Company. 305,377, renewed Aug. 15, 1953. O. G. July 28.

Antiseptics, germicides and a preparation for oral hygiene. The Norwich Pharmacal Company. 305,378, renewed Aug. 15, 1953. O. G. July 28.

Estrogenic substances, Conjugated. Premo Pharmaceutical Laboratories, Inc. 577,939, July 28; Serial No. 629,514, published May 12, 1953.

Glycerine tablets. Pine Bros. Inc. 578,134, July 28; Serial No. 641,800.

Laxative. Parke, Davis & Company. 305,326, renewed Aug. 15, 1953. O. G. July 28.

Medicinal compound. Seydel Chemical Company. 303,460, renewed May 23, 1953. O. G. July 28.

Pharmaceutical product. Schenley Laboratories, Inc. 577,952, July 28; Serial No. 631,025, published May 12, 1953.

Protein free maltose and dextrins. S. M. A. Corporation. 304,095, renewed June 20, 1953. O. G. July 28.

### CLASS 19

Automobiles and automobile bodies. Hudson Motor Car Company. 578,090, July 28; Serial No. 639,822, published May 5, 1953.

Automobiles and automobile bodies. Hudson Motor Car Company. 578,091, July 28; Serial No. 639,824, published May 5, 1953.

Bicycles, motor scooters, and motorcycles. Aldens, Inc. 578,110, July 28; Serial No. 611,009.

Splash guards, Rubber, and rubber automobile mats. National Automotive Parts Association. 578,106, July 28. Serial No. 634,418, published May 5, 1953.

### CLASS 20

Floor and wall coverings, Flexible, Congoleum-Nairn Inc. 577,941, July 28; Serial No. 629,652, published May 5, 1953.

Plastic-coated fabric in the nature of oiled cloth. Table Art Mat Corp. 577,916, July 28; Serial No. 625,049, published May 12, 1953.

### CLASS 21

Batteries, Rechargeable, battery chargers, rectifiers. Galvanic Products Corporation. 578,124, July 28; Serial No. 629,106.

Batteries, Storage. Phillips Petroleum Company. 305,466, renewed Aug. 15, 1953. O. G. July 28.

Battery chargers. The Yale & Towne Manufacturing Company. 577,895, July 28; Serial No. 620,983, published May 12, 1953.

Battery separators and retainers, Electric storage. The Electric Storage Battery Company. 302,823, renewed May 2, 1953. O. G. July 28.

Dipped rubber weatherproofing boots to cover shafts of electrical devices, etc. Collord, Incorporated. 578,122, July 28; Serial No. 629,088.

Electrical flashers and flasher controls. Reynolds Electric Company. 302,936, renewed May 2, 1953. O. G. July 28.

Filler board for electrical insulation. West Virginia Pulp and Paper Company. 305,340, renewed Aug. 15, 1953. O. G. July 28.

Flash lights. Blake Manufacturing Co. 250,797, renewed Dec. 18, 1948. O. G. July 28.

Fuses, Electrical, fuse mountings, bus supports etc. S & C Electric Company. 577,876, July 28; Serial No. 613,193, published May 12, 1953.

Miniature receivers. New York Technical Institute. 578,051, July 28; Serial No. 637,786, published May 12, 1953.

Telephone switching systems and apparatus therefor, telephone subscribers station-apparatus, etc. International Telephone and Telegraph Corporation. 577,874, July 28; Serial No. 612,077, published May 12, 1953.

### CLASS 22

Doll-like characters, fictional. Taton, Inc. 577,890, July 28; Serial No. 622,180, published May 5, 1953.

Foot ball players' plastic masks. M. T. Marietta. 578,132, July 28; Serial No. 638,420.

Games, Picture puzzle. The Tuco Work Shops, Incorporated. 391,150, Oct. 28, 1941. Republished July 28.

Games, Picture puzzle. The Tuco Work Shops, Incorporated. 393,479, Feb. 17, 1942. Republished July 28.

Golf clubs. The Billings & Spencer Company. 290,638, Jan. 12, 1932. Republished July 28.

Golf clubs. The Billings & Spencer Company. 296,507, Aug. 9, 1932. Republished July 28.

### CLASS 23

Automotive engine parts. Overseas Export Corporation. 577,879, July 28; Serial No. 615,655, published Feb. 3, 1953.

Chucking and screw machines. The New Britain Machine Company. 202,796, Sept. 1, 1925. Republished July 28.

Cutlery. Popeil Brothers, Inc. 577,929, July 28; Serial No. 627,405, published Apr. 21, 1953.

Cylinders, Fluid pressure operated. J. A. Fox. 577,882, July 28; Serial No. 617,284, published Jan. 6, 1953.

Dipped rubber weatherproofing boots to cover shafts, levers, links and springs, etc. Collord, Incorporated. 578,123, July 28; Serial No. 629,089.

Dishwashing machines. James Manufacturing Company. 577,955, July 28; Serial No. 631,162, published Jan. 6, 1953.

Fire-extinguishers. Chicago Automatic Fire Control. 578,043, July 28; Serial No. 637,241, published Apr. 21, 1953.

Internal combustion engine and automotive accessories and parts. Carter Carburetor Corporation. 577,838, July 28; Serial No. 586,956, published Apr. 21, 1953.

Knives, Table, paring knives, bread knives, etc. Colonial Knife Company, Inc. 577,846, July 28; Serial No. 596,983, published Jan. 20, 1953.

Machines for cutting and slicing loaf-like edible commodities and parts thereof. General Machinery Corporation. 577,921, July 28; Serial No. 626,374, published Apr. 21, 1953.

Marine engines and parts thereof, accessories therefor. Osco Motors Corporation. 577,824, July 28; Serial No. 551,193, published Dec. 30, 1952.

Police clubs. P. P. Schultz. 577,957, July 28; Serial No. 631,314, published Jan. 13, 1953.

Poultry plucking machines and parts thereof. Gordon Johnson Company. 577,967, July 28; Serial No. 632,615, published Apr. 21, 1953.

Poultry washing machines. Gordon Johnson Company. 577,945, July 28; Serial No. 630,536, published Dec. 30, 1952.

Precut screens used in gyrating, vibrating and rotating machines. Western Fence & Wire Works. 577,934, July 28; Serial No. 628,835, published Apr. 21, 1953.

Pump liners and barrels, water tubes for swivels, and plunger pumps. United States Steel Company. 577,930, July 28; Serial No. 627,472, published Apr. 28, 1953.

Screw and chucking machines, Automatic and semi-automatic. The New Britain Machine Company. 200,815, July 14, 1925. Republished July 28.

Shears, Grass. Keiser Manufarturing Company. 577,965, July 28; Serial No. 632,431, published Feb. 10, 1953.

Socket-wrench sets. The New Britain Machine Company. 185,962, July 1, 1924. Republished July 28.

Socket wrenches and socket-wrench sets. S. Maadl. 180,808, July 22, 1924. Republished July 28.

Spraying and dusting machines. Food Machinery and Chemical Corporation. 577,833, July 28; Serial No. 579,088, published Apr. 1, 1952.

Tappet push rod for automobiles, Noise-free. J. T. Wright. 577,969, July 28; Serial No. 632,765, published Apr. 21, 1953.

Tools and equipment, Well drilling. Baker Oil Tools, Inc. 367,436, May 16, 1939. Republished July 28.

Tractors, plows, cultivators, etc. Simplicity Manufacturing Company. 577,919, July 28; Serial No. 625,869, published Apr. 21, 1953.

Variable speed gears. Cyclo Gear Company Limited. 577,839, July 28; Serial No. 589,710, published Jan. 13, 1953.

Wrenches. Coes Wrench Company. 88,616, Oct. 8, 1912. Republished July 28.

### CLASS 24

Ironing machines, Electric. Armstrong Products Corporation. 578,017, July 28; Serial No. 635,168, published Apr. 28, 1953.

Laundry equipment. Speed Queen Corporation. 578,095, July 28; Serial No. 641,217, published Apr. 28, 1953.

Washing machines and parts therefor. Hoover Limited. 578,094, July 28; Serial No. 640,158, published Apr. 28, 1953.

Washing machines, Laundry. One Minute Washer Company. 305,578, renewed Aug. 22, 1953. O. G. July 28.

### CLASS 25

Handcuffs. J. L. Galef and Son, Inc. 577,918, July 28; Serial No. 625,731, published Apr. 28, 1953.

### CLASS 26

Apparatus for measuring distances. Raytheon Manufacturing Company. 578,048, July 28; Serial No. 637,719, published May 5, 1953.



Camera attachments and accessories. M. S. Jenner. 577,837, July 28; Serial No. 582,018, published Mar. 17, 1953.

Cameras and related equipment and accessories, etc., Stereoscopic. David White Company. 578,097, July 28; Serial No. 634,875, published Apr. 28, 1953.

Counting machines. Popper & Sons, Inc. 577,932, July 28; Serial No. 628,292, published Mar. 17, 1953.

Egg candler. Vogel Luminescence Corporation. 578,047, July 28; Serial No. 637,628, published May 5, 1953.

Electrically operated machine employing infrared light source. Minnesota Mining & Manufacturing Company. 577,845, July 28; Serial No. 596,859, published Mar. 17, 1953.

Electrophotographic copying machines, cameras, etc. The Haloid Company. 578,061, July 28; Serial No. 638,142, published May 12, 1953.

Excitation apparatus for spectrographs. National Spectrographic Laboratories, Inc. 578,028, July 28; Serial No. 635,843, published May 12, 1953.

Gage blocks. Webber Gage Company. 577,970, July 28; Serial No. 632,809, published May 5, 1953.

Gas-analyzing apparatus. Vitro Corporation of America. 578,027, July 28; Serial No. 635,798, published May 12, 1953.

Internal combustion engine fuel and lubricant dispensing pumps. Martin & Schwartz, Inc. 577,896, July 28; Serial No. 621,155, published Mar. 17, 1953.

Laboratory test engines and parts thereof, fuel testing dynamometer units and parts thereof, etc. Waukesha Motor Company. 577,871, July 28; Serial No. 610,933, published Mar. 17, 1953.

Machine for segregating notched cards. The McBee Company. 577,821, July 28; Serial No. 543,620, published May 5, 1953.

Machines for exposing and developing white prints, etc. Paragon-Revolute Corporation. 578,049, July 28; Serial No. 637,668, published May 5, 1953.

Machines for testing balance of tires, etc., and also machines for testing and correcting such balance. Micro-Poise Engineering & Sales Company. 577,956, July 28; Serial No. 631,248, published Mar. 24, 1953.

Meters for measuring and indicating the flow of fluids, and fluid filters. Seiss Corporation of America. 577,865, July 28; Serial No. 609,346, published Mar. 24, 1953.

Moving-picture and film slide projectors, cameras, etc. De Vry Corporation. 577,904, July 28; Serial No. 623,500, published Mar. 17, 1953.

Photographic apparatus. Gratlex, Inc. 577,902, July 28; Serial No. 622,934, published Mar. 17, 1953.

Photographic electric flash lighting apparatus and parts thereof, etc. Eastman Kodak Company. 577,857, July 28; Serial No. 606,212, published Mar. 24, 1953.

Photographic film, Sensitized. Eastman Kodak Company. 578,062, July 28; Serial No. 638,409, published May 12, 1953.

Plummel-type density measuring, density indicating, and density controlling instruments and parts thereof. Precision Thermometer & Instrument Company. 577,847, July 28; Serial No. 598,322, published Mar. 17, 1953.

Projection screens. Radiant Manufacturing Corp. 578,044, July 28; Serial No. 637,329, published Apr. 28, 1953.

Range coupled flash calculator, exposure meter, and range finder, Combined. Utilitron Incorporated. 577,842, July 28; Serial No. 594,930, published Mar. 17, 1953.

Time measuring and time controlling switches, Coin operated. Lloyd Meter Manufacturing Company. 578,023, July 28; Serial No. 635,658, published May 12, 1953.

### CLASS 27

Weighing balances. L. Oertling Limited. 577,966, July 28; Serial No. 632,485, published Apr. 28, 1953.

Watches, Marksoo Bros. 578,072, July 28; Serial No. 638,804, published Apr. 28, 1953.

Watches, Joseph H. Meyer Bros. 578,005, July 28; Serial No. 634,797, published Feb. 10, 1953.

Watches, The Richter & Phillips Company. 578,125, July 28; Serial No. 630,439.

Watches and watch parts. The United States Time Corporation. 578,040, July 28; Serial No. 637,625, published Apr. 21, 1953.

Watches, clocks, chronometers, etc. Omega Louis Brandt & Frère, S. A. 578,041, July 28; Serial No. 637,074, published Apr. 21, 1953.

Watches, parts of watches, alarm clocks. Tavannes Watch Co., 578,000, July 28; Serial No. 634,665, published May 12, 1953.

Watches, watch cases, and watch movements. The Gruen Watch Company. 578,004, July 28; Serial No. 634,783, published May 12, 1953.

Watches, watch movements, watch cases, etc. Sears, Roebuck and Co. 577,898, July 28; Serial No. 622,038, published Apr. 28, 1953.

Watches, Wrist. Hermann Becker, G. m. b. H. 578,084, July 28; Serial No. 639,549, published Apr. 28, 1953.

### CLASS 28

Bracelets and watch bracelets and watch straps. Gemex Company. 578,065, July 28; Serial No. 638,644, published Apr. 21, 1953.

Bracelets and watch bracelets and watch straps. Gemex Company. 578,066–9, July 28; Serial Nos. 638,711–14, published Apr. 21, 1953.

Bracelets and watch bracelets and watch straps. Gemex Company. 578,077, July 28; Serial No. 639,032, published Apr. 28, 1953.

Bracelets and watch bracelets and watch straps. Gemex Company. 578,092–3, July 28; Serial Nos. 640,117–18, published Apr. 28, 1953.

Bracelets, Watch. Jacoby-Bender, Inc. 578,085, July 28; Serial No. 639,641, published May 12, 1953.

Bracelets, Watch. Jacoby-Bender, Inc. 578,086, July 28; Serial No. 639,643, published Apr. 28, 1953.

Bracelets, Watch. Jacoby-Bender, Inc. 578,087, July 28; Serial No. 639,644, published May 12, 1953.

Bracelets, Watch. Jacoby-Bender, Inc. 578,088, July 28; Serial No. 639,645, published Apr. 28, 1953.

Brooches, bracelets, earrings, etc. Felch & Co. Inc. 577,935, July 28; Serial No. 628,853, published Apr. 28, 1953.

Pearls and costume jewelry. Valerie Jewelry, Inc. 577,973, July 28; Serial No. 633,130, published May 12, 1953.

Pearls, Artificial. Indestructible Pearl Bead Makers, Inc. 577,958, July 28; Serial No. 631,422, published May 12, 1953.

Silverplated flat and hollow tableware. Oneida Ltd. 577,843, July 28; Serial No. 594,984, published July 1, 1952.

Silver plated hollowware. The R. Wallace & Sons Manfg. Co. 577,856, July 28; Serial No. 604,502, published May 12, 1953.

Sterling silver flatware and table cutlery. Gorham Manufacturing Company. 578,063, July 28; Serial No. 638,578, published Apr. 21, 1953.

Sterling silver hollowware and sterling silver flatware. The Alvin Corporation. 577,953, July 28; Serial No. 631,034, published Oct. 21, 1952.

### CLASS 29

Brooms, mops, scrubbing brushes, and dusters. United Buyers Corporation. 380,483, Aug. 20, 1940. Republished July 28.

Brushes, Paint. Golden State Brush Company. 577,943, July 28; Serial No. 630,265, published May 5, 1953.

Car wash mitts. S. M. Arnold, Inc. 578,119, July 28; Serial No. 628,389.

Window cleaners of the squeegee type and parts thereof. Greenview Manufacturing Company. 305,534, renewed Aug. 22, 1953. O. G. July 28.

### CLASS 30

Ceramic trays and urns. M. E. Duffy. 577,864, July 28; Serial No. 609,235, published May 12, 1953.

China dishes. Cardinal China Co. 578,136, July 28; Serial No. 646,202.

China dishes. C. W. Stuart & Company. 577,891, July 28; Serial No. 620,038, published May 12, 1953.

Semi-porcelain salad bowls. Waterman-White. 578,016, July 28; Serial No. 635,162, published Apr. 28, 1953.

### CLASS 31

Filter apparatus and parts thereof. National Filter Corporation. 577,920, July 28; Serial No. 625,994, published May 5, 1953.

Filter bags. Air Pulverizing Machinery Company. 577,947, July 28; Serial No. 630,791, published May 5, 1953.

Filter funnels. A. Jäschke. 577,870, July 28; Serial No. 610,726, published Mar. 31, 1953.

Refrigerated beverage dispensing apparatus and parts thereof. Seimix Dispenser Corporation. 577,823, July 28; Serial No. 548,537, published May 5, 1953.

Refrigerators, Electrical. The Crosley Radio Corporation. 304,471, renewed July 11, 1953. O. G. July 28.

Refrigerators, Food storage. W. L. Morrison. 577,877, July 28; Serial No. 613,881, published May 5, 1953.

Self-cleaning mechanical dust collectors. American Air Filter Company, Inc. 578,052, July 28; Serial No. 637,811, published May 5, 1953.

### CLASS 32

Bed legs, Hollywood. Victor Wood Products Co. 578,071, July 28; Serial No. 638,747, published May 12, 1953.

Chairs. Sturgis Posture Chair Company. 578,010, July 28; Serial No. 635,001, published Apr. 28, 1953.

Chairs, Folding. Carolina Metal Products, Inc. 578,083, July 28; Serial No. 639,464, published May 12, 1953.

Furniture, Bedroom and dining room. Drexel Furniture Company. 577,980, July 28; Serial No. 633,722, published May 12, 1953.

Furniture, Household. The Franklin Furniture Company. 577,881, July 28; Serial No. 617,144, published May 5, 1953.

Furniture, Household. W. C. Pahlmann. 578,101, July 28; Serial No. 579,829, published Apr. 28, 1953.

Furniture, Indoor and outdoor. John Hancock Manufacturing Company. 577,908, July 28; Serial No. 623,886, published May 5, 1953.

Furniture, Seating, and seating furniture frames. T. A. Friedlander. 577,992–4, July 28; Serial Nos. 634,461–3, published May 5, 1953.
Mattresses. Comfort Spring Corporation. 578,073, July 28; Serial No. 638,900, published May 12, 1953.
Mattresses and box springs. Truman Boyles Mattress Company. 578,011, July 28; Serial No. 635,007, published May 12, 1953.
Mattresses and box springs. Simmons Company. 578,082, July 28; Serial No. 639,444, published May 12, 1953.
Mattresses, bed springs, beds, etc. E. Cohen. 577,989, July 28; Serial No. 634,299, published May 5, 1953.
Mattresses, box springs, and headboard bed combinations. Slumberland Products Co. 578,054–5, July 28; Serial No. 637,890–1, published May 12, 1953.
Metal spring wire pads used in articles of furniture. Flex-O-Lators, Inc. 577,835, July 28; Serial No. 580,779, published May 5, 1953.
Racks, stands and tables. Buck Engineering Company, Inc. 577,854, July 28; Serial No. 604,354, published May 5, 1953.
Serving cart. Drexel Furiture Company. 577,964, July 28; Serial No. 632,419, published May 12, 1953.
Shelf units, Wall. N. Ostrow. 577,944, July 28; Serial No. 630,511, published May 5, 1953.
Sofas, chairs and living-room suites. International Furniture Company. 577,822, July 28; Serial No. 546,145, published May 12, 1953.
Supports in the form of tripods. Burn-Strauss, Inc. 577,979, July 28; Serial No. 633,700, published May 12, 1953.
Table tops, table legs, table bases, etc. The R. G. D. Corporation. 577,909, July 28; Serial No. 623,909, published Apr. 28, 1953.
Workdesks, stools, work chairs, etc. Standard Pressed Steel Co. 578,031, July 28; Serial No. 635,939, published May 5, 1953.

CLASS 33

Glass reflectors. Curtis Lighting, Inc. 304,049, renewed June 20, 1953. O. G. July 28.
Glass, Safety. Globe Auto Glass Co. 577,924, July 28; Serial No. 626,873, published Apr. 28, 1953.
Glass, Safety. Globe Auto Glass Co. 577,925, July 28; Serial No. 626,874, published May 12, 1953.
Glass, Sheet and plate. Shatterproof Glass Corporation. 578,076, July 28; Serial No. 638,979, published Apr. 28, 1953.
Watch crystals. The American Rolex Watch Corporation. 577,931, July 28; Serial No. 627,859, published Apr. 21, 1953.

CLASS 34

Air conditioning and furnace accessories. Hart & Cooley Manufacturing Co. 577,914, July 28; Serial No. 624,828, published Apr. 28, 1953.
Dryers. Robert Holmes & Bros, Inc. 577,872, July 28; Serial No. 611,359, published Apr. 21, 1953.
Lamps and lanterns, Oil burning parts thereof, and globes therefor. R. E. Dietz Company. 577,938, July 28; Serial No. 629,479, published Apr. 28, 1953.
Liquid soap making unit comprising a tank equipped with a steam-operated circulator. G. H. Bishop Company. 577,853, July 28; Serial No. 604,352, published Apr. 21, 1953.
Low pressure gas fuel system. KeyStone-Fleming, Inc. 577,840, July 28; Serial No. 593,225, published Apr. 21, 1953.
Oil burners. Kres-Kno Oil Burner Manufacturing Company, Inc. 444,784, July 28; Serial No. 520,633, published Apr. 6, 1948.

CLASS 35

Belting and hose. Anchor Rubber Company. 577,905, July 28; Serial No. 623,703, published May 12, 1953.
Belting, Leather. Baltimore Belting Company. 302,351, Apr. 11, 1933. Republished July 28.
Hose made of rubber, etc. United States Rubber Company. 578,098, July 28; Serial No. 642,499, published May 12, 1953.
Hose, Radiator. The Gates Rubber Company. 577,940, July 28; Serial No. 629,565, published May 12, 1953.
Rubber lagging. The American Pulley Company. 578,100, July 28; Serial No. 642,724, published May 12, 1953.
Spray hose, valve and plunger leathers. H. D. Hudson Manufacturing Company. 578,099, July 28; Serial No. 642,649, published May 12, 1953.
Tires, Rubber and fabric vehicle. The Dayton Rubber Company. 577,860, July 28; Serial No. 608,700, published May 12, 1953.

CLASS 36

String instruments. Chicago Musical Instrument Co. 303,312, renewed May 23, 1953. O. G. July 28.

CLASS 37

Labels. Shellmar Products Company. 303,021, renewed May 9, 1953. O. G. July 28.
Paper. Deutsche Gold- & Silber-Scheideanstalt. 301,127, renewed Feb. 21, 1953. O. G. July 28.
Paper, All kinds of writing and printing. Strathmore Paper Company. 237,351, Jan 10, 1928. Republished July 28.
Paper, All kinds of writing and printing. Strathmore Paper Company. 248,580, Oct. 23, 1928. Republished July 28.
Paper, Wrapping. Crown Willamette Paper Company. 307,191, renewed Oct. 17, 1953. O. G. July 28.
Paper, Writing and printing. Hurlbut Paper Company. 285,681, Aug. 4, 1931. Republished July 28.
Paper, Writing and printing. Strathmore Paper Company. 297,916, Oct. 4, 1932. Republished July 28.
Papers, Index, pasted, and wedding bristols, bond, ledger, and wedding. B. D. Rising Paper Company. 239,561, Mar. 6, 1928. Republished July 28.
Pencils, Lead. Eberhard Faber Pencil Company. 307,230, renewed Oct. 17, 1953. O. G. July 28.

CLASS 38

Column in a periodical. TeleVision Guide, Inc. 566,461, Nov. 4, 1952. New certificate. O. G. July 28.
Column in a periodical. TeleVision Guide, Inc. 568,060, Dec. 16, 1952. New certificate. O. G. July 28.
Column in a periodical. TeleVision Guide, Inc. 568,062, Dec. 16, 1952. New certificate. O. G. July 28.
Column in printed periodicals and magazines. TeleVision Guide, Inc. 547,252–3, Aug. 28, 1951. New certificate. O. G. July 28.
Column in printed periodicals and magazines. TeleVision Guide, Inc. 565,084, Oct. 7, 1952. New certificate. O. G. July 28.
Column in printed periodicals and magazines. TeleVision Guide, Inc. 568,058–9, Dec. 16, 1952. New certificate. O. G. July 28.
Comic strips. The Bonnet-Brown Corporation. 307,241, renewed Oct. 17, 1953. O. G. July 28.
Newspaper articles. Bulletin Company. 302,574, renewed Apr. 25, 1953. O. G. July 28.
Periodicals and magazines, Printed. Television Guide, Inc. 518,551, Dec. 6, 1949. New certificate. O. G. July 28.
Periodicals, Printed. TeleVision Guide, Inc. 561,686, July 15, 1952. New certificate. O. G. July 28.
Printed sign boards, printed advertising signs and reproductions. Deutsche Gold- & Silber-Scheideanstalt. 301,128, renewed Feb. 21, 1953. O. G. July 28.

CLASS 39

Apron, baby bath towel and child's hooded cape or robe, Combination. Ruth M. Schneider. 578,030, July 28; Serial No. 635,932, published Apr. 21, 1953.
Blouses, dresses, sweaters, etc., Women's and misses'. W. T. Grant Company. 578,029, July 28; Serial No. 635,915, published May 5, 1953.
Brassières. The La Resista Corset Company. 578,070, July 28; Serial No. 638,723, published May 5, 1953.
Brassières, hosiery, garments comprising camisoles and knickers, etc. Wrightwear Limited. 577,893, July 28; Serial No. 620,182, published May 5, 1953.
Coats, vests, trousers, knickerbockers, etc. J. Schoeneman, Inc. 578,036, July 28; Serial No. 636,543, published Apr. 28, 1953.
Dresses, and blouses, Children's. Dubrow-Zieff, Inc. 578,024, July 28; Serial No. 635,748, published Apr. 21, 1953.
Dresses and suits, Ladies' and misses'. Herbert Sondheim, Inc. 577,830, July 28; Serial No. 564,909, published May 5, 1953.
Dresses, outer shirts and blouses, and jackets, Ladies'. The Russell Manufacturing Company. 577,885, July 28; Serial No. 618,100, published Apr. 28, 1953.
Girdles, Pantie. Caryl Leslie Creations. 577,888, July 28; Serial No. 619,248, published May 5, 1953.
Hats, Ladies'. Jay Gee Hat Co., Inc. 307,413, renewed Oct. 24, 1953. O. G. July 28.
Hosiery. Kramer Brothers. 307,114, renewed Oct. 17, 1953. O. G. July 28.
Hosiery. Milwaukee Knitting Mills, Inc. 306,503, renewed Sept. 19, 1953. O. G. July 28.
Hosiery. Joseph H. Wilson, Sr. 577,996, July 28; Serial No. 634,511, published May 5, 1953.
Hosiery, Ladies'. Archer Mills, Inc. 578,037, July 28; Serial No. 636,580, published May 5, 1953.
Hosiery, Ladies'. A. M. Frager. 578,032, July 28; Serial No. 636,228, published May 5, 1953.
Hosiery, Ladies'. S. Friedman. 578,039, July 28; Serial No. 636,699, published May 5, 1953.
Hosiery, Ladies' and misses'. Hosiery Sales Company. 577,995, July 28; Serial No. 634,469, published May 5, 1953.
Hosiery, Mens'. Galax Knitting Company, Inc. 578,025, July 28; Serial No. 635,759, published Apr. 28, 1953.
Hosiery, Men's, women's and children's. Tennessee Hosiery Mills Co. 577,954, July 28; Serial No. 631,074, published Apr. 28, 1953.
Hosiery, Women's. Burlington Mills Corporation. 578,045, July 28; Serial No. 637,360, published May 5, 1953.
Hosiery, Women's. M. K. M. Hosiery Mills, Inc. 577,884, July 28; Serial No. 617,761, published Apr. 28, 1953.
Hosiery, Women's and girls'. A. Landau. 577,987, July 28; Serial No. 634,201, published May 5, 1953.



Hosiery, Women's full-fashioned. Berkshire Knitting Mills. 577,907, July 28; Serial No. 623,869, published May 5, 1953.
Nightgowns, and negligee and nightgown ensembles, Women's and misses'. G. Beckerman. 577,962, July 28; Serial No. 631,781, published May 5, 1953.
Overalls, trousers and shirts. Niagara Overall & Pants Co. 93,894, re-renewed Oct. 21, 1953. O. G. July 28.
Pajamas. Lubin-Wreker Co., Inc. 307,311, renewed Oct. 24, 1953. O. G. July 28.
Pull-overs, or sweaters. The Manhattan Shirt Company. 307,105, renewed Oct. 17, 1953. O. G. July 28.
Shoes, Leather. Stone-Tarlow Co., Inc. 307,061, renewed Oct. 10, 1953. O. G. July 28.
Slacks, Men's. Haggar Company. 578,019, July 28; Serial No. 635,262, published Mar. 31, 1953.
Slacks, pants, and leggings, Children's. Horowitz & Efron, Inc. 577,851, July 28; Serial No. 603,616, published Apr. 21, 1953.
Stockings, Ladies'. Manchester Hosiery Mills. 577,855, July 28; Serial No. 604,374, published May 5, 1953.
Suits, and coats, Men's. Michaels, Stern & Company, Incorporated. 577,892, July 28; Serial No. 620,163, published Mar. 31, 1953.
Suits and coats, Men's. Stern Brothers. 577,976, July 28; Serial No. 633,515, published Mar. 31, 1953.
Suits, Men's. Merit Clothing Company. 577,999, July 28; Serial No. 634,602, published Apr. 7, 1953.
Suits, Men's. Society Brand Clothes, Inc. 578,026, July 28; Serial No. 635,793, published Apr. 21, 1953.
Suits, sportcoats, and outercoats, Men's. H. Freeman & Son, Inc. 578,021, July 28; Serial No. 635,044, published Apr. 21, 1953.
Suits, sport coats, and top coats, Men's. Leonards. 577,911, July 28; Serial No. 624,038, published Apr. 28, 1953.
Suits, topcoats, overcoats, etc, Men's. Gamble-Skogmo, Inc. 577,836, July 28; Serial No. 582,040, published Oct. 24, 1950.
Wearing apparel, Women's and children's. B. Gritton. 577,862, July 28; Serial No. 609,128, published May 5, 1953.

CLASS 40

Combs, toilet sets comprising combs, mirrors, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,129, renewed Feb. 21, 1953. O. G. July 28.
Shade tassels, shade pulls, shade fringe, etc. F. W. Maurer & Sons Co. 92,093, re-renewed June 17, 1953. O. G. July 28.

CLASS 41

Umbrellas and canes. Deutsche Gold- & Silber-Scheideanstalt. 301,130, renewed Feb. 21, 1953. O. G. July 28.

CLASS 42

Calicoes, Printed and dyed, cloth made from carded and combed cotton yarns, printed and dyed flannels, corduroys, etc. Merrimack Manufacturing Company. 76,889, Feb. 22, 1910. Republished July 28.
Cotton duck. Geo. B. Carpenter & Co. 80,380, re-renewed May 7, 1952. O. G. July 28.
Cotton, linen, silk, etc., in the piece. Fred Butterfield & Co., Inc. 269,073, Mar. 25, 1930. Republished July 28.
Embroideries, draperies, ribbons and laces. Deutsche Gold- & Silber-Scheideanstalt. 301,131, renewed Feb. 21, 1953. O. G. July 28.
Sheetings of rubber-proofed fabrics. Continental-Caoutchouc- and Gutta-Percha Compagnie. 88,065, re-renewed Aug. 27, 1952. O. G. July 28.
Woolen goods in the piece and in cut lengths. S. Stein & Co. 306,556, renewed Sept. 26, 1953. O. G. July 28.

CLASS 43

Yarn fibres, Spun. Deutsche Gold- & Silber-Scheideanstalt. 301,132, renewed Feb. 21, 1953. O. G. July 28.
Yarns, Knitting. Morell Novelty Co., Inc. 578,033, July 28; Serial No. 636,244, published May 5, 1953.
Yarns, Rayon. American Enka Corporation. 337,651, Aug. 18, 1936. Republished July 28.

CLASS 44

Artificial teeth. H. D. Justi & Son, Inc. 578,121, July 28; Serial No. 628,946.
Dental and surgical operating lights. Ritter Dental Manufacturing Company, Inc. 306,340, Sept. 19, 1933. Republished July 28.
Dental burs. G. Scharmann. 40,918, re-renewed Aug. 11, 1953. O. G. July 28.
Dispenser for dispensing medicaments, Bulb type. Barry Laboratories, Inc. 577,990, July 28; Serial No. 634,392, published Apr. 28, 1953.
Endoscopic instruments. National Electric Instrument Co., Inc. 577,971, July 28; Serial No. 632,950, published Apr. 28, 1953.
Exercise apparatus. Portable Machinery Company Incorporated. 577,869, July 28; Serial No. 619,090, published Apr. 28, 1953.
Haemostatic, thumb, tissue, splinter and sponge forceps, gauze and bandage scissors, specula, etc. Schueler & Co. 577,978, July 28; Serial No. 633,633, published Apr. 28, 1953.
Manicure implements. B. Wigder. 302,313, renewed Apr. 11, 1953. O. G. July 28.
Rectangular, slanted, body-supporting board having therapeutical value. W. F. Courtney. 577,859, July 28; Serial No. 607,244, published Apr. 28, 1953.
Surgical circumcising instruments. A. Z. Krohn. 578,034, July 28; Serial No. 636,295, published May 12, 1953.
Surgical dressing goods. Will Ross, Inc. 577,948, July 28; Serial No. 630,796, published Apr. 28, 1953.
Surgical plasters, adhesive tape, plasters, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,133, renewed Feb. 21, 1953. O. G. July 28.
Syringes, Hypodermic. D. Gluck. 578,035, July 28; Serial No. 630,475, published May 12, 1953.
Unit for the intravenous administration or withdrawal of fluids, etc., Disposable ready-to-use. Abbott Laboratories. 578,009, July 28; Serial No. 634,958, published Apr. 28.
Vaporizing device to facilitate inhalation of liquid medicaments. Parke, Davis & Company. 578,003, July 28; Serial No. 634,750, published Apr. 28, 1953.
Wrapping material for use principally as an outer covering for sanitary pads. International Cellucotton Products Company. 577,982, July 28; Serial No. 633,936, published Apr. 28, 1953.

CLASS 45

Beverages, Maltless non-alcoholic soft drink. R. B. Boyer. 578,114, July 28; Serial No. 617,483.
Mineral waters, non-alcoholic, maltless beverages. Deutsche Gold- & Silber-Scheideanstalt. 301,134, renewed Feb. 21, 1953. O. G. July 28.

CLASS 46

Bread, rolls, biscuits, cakes, etc. Ward Baking Company. 91,625, re-renewed May 13, 1953. O. G. July 28.
Cake, Fruit, stuffed dates, pfeffernuesse cookies, etc. Saille Chase, Incorporated. 578,089, July 28; Serial No. 639,807, published May 5, 1953.
Canned apricots, pitted red cherries, etc. United Buyers Corporation. 344,949, Apr. 13, 1937. Republished July 28.
Canned evaporated milk. Meyenberg Laboratories, Inc. 306,368, renewed Sept. 19, 1953. O. G. July 28.
Canned fruits and canned vegetables. Societa Generale delle Conserve Alimentari Cirio. 577,923, July 28; Serial No. 626,756, published Apr. 21, 1953.
Canned salmon, coffee, food flavoring extracts, etc. United Buyers Corporation. 348,136, July 20, 1937. Republished July 28.
Canned vegetables, canned fruits, canned meats, etc. Klauber Wangenheim Co. 93,731, re-renewed Oct. 14, 1953. O. G. July 28.
Coffee. The Emporia Wholesale Coffee Company. 578,120 July 28; Serial No. 628,749.
Coffee, Blended. William S. Scull Company. 93,247, re-renewed Aug. 26, 1953. O. G. July 28.
Cotton-seed oil. Aspegren & Co. 91,449, re-renewed May 6, 1953. O. G. July 28.
Dog food, Kibbled, dog biscuits, and dog meal. Ottawa Foods. 577,878, July 28; Serial No. 615,282, published May 5, 1953.
Field grains. Boone Valley Farm. 577,863, July 28; Serial No. 609,160, published May 5, 1953.
Flour, Wheat. The Kansas Flour Mills Corporation. 225,972, Mar. 29, 1927. Republished July 28.
Flour, Wheat, cream farina; and pure buckwheat flour, etc. Eagle Roller Mill Co. 577,818, July 28; Serial No. 527,025, published Jan. 31, 1950.
Fruits, Fresh citrus. Naranjo Packing House Company. 577,820, July 28; Serial No. 540,440, published Apr. 21, 1953.
Gelatin. Charles B. Knox Company. 93,868, re-renewed Oct. 21, 1953. O. G. July 28.
Gelatin. Charles B. Knox Company. 94,004, re-renewed Oct. 28, 1953. O. G. July 28.
Grapefruit and oranges, Fresh. Mrs. B. R. Barfield. 578,118, July 28; Serial No. 628,087.
Olive oil. A. Giuliani & Bro. 327,989, Sept. 10, 1935. Republished July 28.
Olive oil. A. Giuliani & Bro. 377,096, Apr. 16, 1940. Republished July 28.
Pork sausage. John Morrell & Co. 306,379, renewed Sept. 19, 1953. O. G. July 28.
Preparation for making pasta e fagioli (macaroni and bean soup, Italian style). A. Diamanti. 578,127, July 28; Serial No. 631,474.
Preparation in powder form to be added to other ingredients in the preparation of icings, toppings, and the like. Virginia Dare Extract Company, Inc. 286,104, Aug. 18, 1931. Republished July 28.
Pretzels and pretzel sticks. Purity Pretzel Company. 578,064, July 28; Serial No. 638,604, published May 5, 1953.
Raisins. California Raisin Company. 577,894, July 28; Serial No. 620,300, published Apr. 21, 1953.
Rennet preparations for making rennet desserts. Chr. Hansen's Laboratory, Inc. 577,886, July 28; Serial No. 619,083, published Apr. 21, 1953.
Rennet preparations for making rennet desserts. Chr. Hansen's Laboratory, Inc. 577,887, July 28; Serial No. 619,085, published Apr. 21, 1953.
Shortening. Armour and Company. 577,927, July 28; Serial No. 627,165, published Apr. 21, 1953.

Shortenings. The Procter & Gamble Company. 304,824, renewed July 18, 1953. O. G. July 28.
Stabilizing compound for dough. Joe Lowe Corporation. 305,399, renewed Aug. 15, 1953. O. G. July 28.
Syrup, Imitation maple flavor. Tea Garden Products Co. 577,819, July 28; Serial No. 534,620, published Feb. 10, 1953.
Vegetables, Fresh. Roll Packing House. 578,135, July 28; Serial No. 642,692.
Wheat-flour. Valier & Spies Milling Co. 91,822, re-renewed May 27, 1953. O. G. July 28.

CLASS 47

Wines. Bodegas Franco-Espanolas. 303,766, renewed June 6, 1953. O. G. July 28.
Wines. Bodegas Franco-Espanolas. 306,036, renewed Sept. 5, 1953. O. G. July 28.
Wines, Still, sparkling wines, fermented wines, etc. Bisceglia Bros. 306,516, renewed Sept. 19, 1953. O. G. July 28.

CLASS 48

Beer. The Oshkosh Brewing Company. 40,988, re-renewed Aug. 25, 1953. O. G. July 28.

CLASS 49

Ethyl alcohol, brandies, whiskeys, rum, etc. Juan Mollfulleda Congost. 299,899, renewed Dec. 27, 1952. O. G. July 28.

CLASS 50

Drinking straws, Paper. Malt-A-Plenty, Inc. 577,917, July 28; Serial No. 625,482, published May 5, 1953.
Place mats, Plastic. Placematters, Inc. 578,053, July 28; Serial No. 637,837, published Apr. 21, 1953.
Place mats, Plastic. The Ulman Company, Inc. 577,913, July 28; Serial No. 624,617, published Apr. 28, 1953.
Rubber bath mats, rubber blankets, rubber binding, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,135, re-newed Feb. 21, 1953. O. G. July 28.
Sink mats, Rubber; carpet pads, cushions, and underlays. Miller and Rhoads, Incorporated. 577,903, July 28; Serial No. 623,119, published May 5, 1953.
Step-ladder. Lincoln Manufacturing Company, Inc. 578,014–15, July 28; Serial Nos. 635,090–1, published Apr. 28, 1953.
Wall plaques, Decorative. Roberts-Jerome Associates. 577,933, July 28; Serial No. 628,730, published Apr. 21, 1953.

CLASS 51

Beauty creams, cold creams, cleansing creams, etc. Parfumerie St. Denis. 307,327, renewed Oct. 24, 1953. O. G. July 28.
Denture stain remover. A. V. Marlowe. 578,113, July 28; Serial No. 610,859.
Face conditioner. M. H. Berlinger. 305,895, renewed Aug. 29, 1953. O. G. July 28.
Face cream. Rolley, Inc. 577,951, July 28; Serial No. 630,958, published Apr. 28, 1953.
Hair-tonic, toilet water, bath salts, etc. Pinaud, Incorporated. 307,485, renewed Oct. 24, 1953. O. G. July 28.
Lipsticks. P. Baudecroux. 577,834, July 28; Serial No. 580,728, published Aug. 26, 1952.
Lotion, Skin. R. P. Hardy. 578,115, July 28; Serial No. 618,394.
Neutralizer in cold wave process of waving hair. Sales Affiliates, Inc. 578,111, July 28; Serial No. 613,194.
Perfume, toilet water, eau de cologne. D. E. Gothé. 578,128, July 28; Serial No. 631,661.
Perfume, toilet water, sachet and complexion powder. S. Palmer. 92,573, re-renewed July 15, 1953. O. G. July 28.
Perfumes. P. Westphal. 40,892, re-renewed Aug. 11, 1953. O. G. July 28.
Perfumes, Artificial and synthetical, essential oils. Usines de L'Allendon S. A. 304,783, renewed July 18, 1953. O. G. July 28.

CLASS 52

Chemical preparations designed to dissolve stoppages in drain pipes, etc. Daniel P. Creed Co. 577,825, July 28; Serial No. 557,908, published Feb. 6, 1951.
Cleaner, Radiator, radiator stop leak, and radiator anti-freeze. Phillips Petroleum Company. 305,656, re-newed Aug. 22, 1953. O. G. July 28.
Detergent powder, Synthetic. The Knoten Company. 577,991, July 28; Serial No. 634,413, published May 5, 1953.
Dishwashing compound. Economics Laboratory, Inc. 577,826, July 28; Serial No. 559,592, published Sept. 23, 1952.
Floor dressing. Acme Chemical Company. 306,627, re-newed Sept. 26, 1953. O. G. July 28.
Top dressing for vehicles, trunks, etc.; dust cloths (chemically treated); and for dry cleaning fluid. Phillips Petroleum Company. 305,395, renewed Aug. 15, 1953. O. G. July 28.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 28TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Crooker, David E., Ontonagon, Mich., assignor of one-half to L. L. Felker, Marshfield, Wis. Nonskid rubber traction members. Re. 23,689, July 28.
Diamond Alkali Company, assignee: *See*—
Dunning, Clayton L.
Dunning, Clayton L., Fairport Harbor, assignor to Diamond Alkali Company, Cleveland, Ohio. Obtaining dry chlorine gas from a gaseous mixture comprising elemental chlorine as a principal component thereof. Re. 23,690, July 28.
Felker, Lloyd L., assignee: *See*—
Crooker, David E.
Randol, Glenn T., Mountain Lake Park, Md. Automotive transmission control. Re. 23,691, July 28.

# LIST OF PLANT PATENTEES

Ecke, Paul, Encinitas, Calif. Poinsettia plant. 1,207. July 28.
Tiret, Horace M., San Francisco, Calif. Fuchsia plant. 1,206, July 28.

# LIST OF DESIGN PATENTEES

Art Metal Company, The, assignee: *See*—
Glatthar, George E., and Matteson.
Associated Plastic Companies, Inc., assignee: *See*—
Zabel, William C. P., and Young.
Autoyre Company, The, assignee: *See*—
Simpson, Paul F.
Beaudette, Romeo A., Mankato, Minn. Rocker chair. 170,073, July 28.
Blanke, Edward C., San Gabriel, Calif. Ash tray. 170,074, July 28.
Borowitz, David, Chicago, Ill. Electric lamp base. 170,075, July 28.
Brenner, Elizabeth A., Wallingford, Conn. Devotional desk. 170,076, July 28.
Brown, Walter E., North Wilbraham, assignor to The Indian Company, Springfield, Mass. Cowling for motorcycle engines. 170,077, July 28.
Budlane, Stanley J., Palatine, and R. Dusek, Cicero, assignors to Dulane, Inc., River Grove, Ill. Ash tray or similar article. 170,078, July 28.
Burckes, Elizabeth H., Sudbury, Mass. Game board. 170,079, July 28.
Burroughs Adding Machine Company, assignee: *See*—
Walker, George W.
Codish, Rajean M., New York, N. Y. Bag. 170,080, July 28.
Dare Products, Incorporated, assignee: *See*—
Wilson, Robert M.
Dulane, Inc., assignee: *See*—
Budlane, Stanley J., and Dusek.
Dusek, Robert: *See*—
Budlane, Stanley J., and Dusek.
Gay Fad Studios Company, assignee: *See*—
Taylor, Fran.
Gelardin, Benjamin, New York, N. Y. Figure toy. 170,081, July 28.
Gelardin, Benjamin, New York, N. Y. Figure toy. 170,082, July 28.
Gelardin, Benjamin, New York, N. Y. Figure toy. 170,083, July 28.
Glatthar, George E., University Heights, and A. W. Matteson, Lakewood, assignors to The Art Metal Company, Cleveland, Ohio. Lighting fixture. 170,084, July 28.
Grant, Max L., Providence, R. I. Fare box. 170,085, July 28.
Harmon, Sydney E., Evanston, Ill. Telephone shoulder rest. 170,086, July 28.
Harper, Fred C., deceased, Waterville; H. H. Harper, executrix, assignor to Keyes Fibre Company, Portland, Maine. Box for cylindrical articles. 170,087, July 28.
Harper, Hazel H., executrix: *See*—
Harper, Fred C.
Hoffman, Melvin J., Newton, assignor to Parkway Furniture Manufacturing Company, Lawrence, Mass. Combination sofa and couch. 170,088, July 28.
Holan Engineering Co., Inc., assignee: *See*—
Poole, Myron C.
Hoyle, Walter W., Syracuse, N. Y. Panel for a laundry appliance or the like. 170,089, July 28.
Indian Company, The, assignee: *See*—
Brown, Walter E.
Keyes Fibre Company, assignee: *See*—
Harper, Fred C.
Lippisch, Alexander M., Cedar Rapids, Iowa. Airplane. 170,090, July 28.
Matteson, Arthur W.: *See*—
Glatthar, George E., and Matteson.
Maywald, Frederick J., assignor to The J. & E. Stevens Sales Company, New York, N. Y. Toy cap pistol or similar article. 170,091, July 28.
Mojud Hosiery Co., Inc., assignee: *See*—
Voehringer, John K., Jr.
Murphy, Joseph E., Hicksville, and M. Schnall, Brooklyn, assignors to See-Qual Package Corp., New York, N. Y. Tray for a wrapped fruit container. 170,092, July 28.
Parkway Furniture Manufacturing Company, assignee: *See*—
Hoffman, Melvin J.
Poole, Myron C., assignor to Holan Engineering Co., Inc., Elwood, Ind. Trailer coach. 170,093, July 28.
Schmitt, Edward W., Cincinnati, Ohio. Combination sink and cabinet unit. 170,094, July 28.
Schnall, Murray: *See*—
Murphy, Joseph E., and Schnall.
Schotland, Murray, New York, N. Y. Combination tooth brush and casing therefor. 170,095, July 28.
See-Qual Package Corp., assignee: *See*—
Murphy, Joseph E., and Schnall.
Selden, Herman L., Chicago, Ill. Combined light bar and camera mount. 170,096, July 28.
Simpson, Paul F., Washington, assignor to The Autoyre Company, Oakville, Conn. Bracket for toilet tissue holders. 170,097, July 28.
Stevens, J. & E., Sales Company, The, assignee: *See*—
Maywald, Frederick J.
Swanson, Keith N., Santa Barbara, Calif. Magazine rack. 170,098, July 28.
Taylor, Fran, Canal Winchester, assignor to Gay Fad Studios Company, Lancaster, Ohio. Tumbler or similar article. 170,099, July 28.
Torsak, Francis, Los Angeles, Calif. Convertible ottoman and back rest unit. 170,100, July 28.
Voehringer, John K., Jr., Greensboro, N. C., assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y. Lady's stocking. 170,101, July 28.
Walker, George W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding machine. 170,102, July 28.
Wilson, Robert M., assignor to Dare Products, Incorporated, Battle Creek, Mich., Electric fence tester. 170,103, July 28.
Young, Paul: *See*—
Zabel, William C. P., and Young.
Zabel, William C. P., Chicago, Ill., and P. Young, Midland, Mich., assignors to Associated Plastic Companies, Inc., Chicago, Ill. Box cover. 170,104, July 28.
Zampini, Arthur, Flushing, N. Y. Portable tilt-table. 170,105, July 28.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 28TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrams, Herman, Philadelphia, Pa. Collapsible crib construction. 2,646,576, July 28.

Ackerman, Howard B., Rockville Centre, N. Y. Record-actuated photocomposing machine. 2,646,733, July 28.

Adam, Frank, Electric Company, assignee: *See*—
Stieglitz, Henry M.

Adams, Ernest C., Jr.: *See*—
Calandra, Joseph C., and Adams.

Adams, James S., Long Beach, and P. E. Wilson, Tujunga, Calif. Device for separating oil from water. 2,646,921, July 28.

Adamson, Frank M.: *See*—
Cadwell, Clarence J., and Adamson.

Addicks, Mentor C., Minneapolis, Minn. Device for handling granular material. 2,646,965, July 28.

Adler, Jules M., Yonkers, N. Y. Protective cover for baby carriage contents. 2,646,843, July 28.

Admiral Corporation, assignee: *See*—
Hinz, Henry E., and Fletcher.

Alleman, Carl E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Destructive distillation. 2,647,077, July 28.

Allen, Archie T., Hickman, Calif. Slidable side jaw wrench. 2,646,710, July 28.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Bimpson, Henry S.
Kenney, Clarence E.
Rheingans, William J., and Nichols.
Strehlow, Walter F.

Allmänna Svenska, Elektriska Aktiebolaget, assignee: *See*—
Arvidsson, Algot.

Ambelang, Joseph C., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Age resisting nonstaining rubber composition and producing same. 2,647,102, July 28.

American Baler Company, The, assignee: *See*—
Seltzer, Robert E.

American Car and Foundry Company, assignee: *See*—
Ericson, George R.

American Cyanamid Company, assignee: *See*—
Hardy, William B. and E. M.
Long, Robert S., and Sears.

American Locomotive Company, assignee: *See*—
Berlyn, Martin J.

American Machine and Foundry Company, assignee: *See*—
Fitz Patrick, James L. G.
Patterson, Morehead.

American Optical Company, assignee: *See*—
Tillyer, Edgar D., and Eves.

American Steel Foundries, assignee: *See*—
Weisberger, Arthur A.

American Viscose Corporation, assignee: *See*—
Borges, Frank R., Jr.
Heffelfinger, Robert D.
Shearer, Howard E.

Ammi-I-Dent, Inc., assignee: *See*—
Singer, Arnold J.

Andersen, Chris S.: *See*—
Williams, Charles R., and Andersen.

Anderson, Arthur W., and B. V. Moeller, assignors to The Dow Chemical Company, Midland, Mich. Improving the cold-water solubility of a fibrous cellulose ether. 2,647,064, July 28.

Anderson, Charles F., Decorah, Iowa. Article sorting device. 2,646,805, July 28.

Andersson, Karl E., Enskede, Sweden. Fishing rod. 2,647,001, July 28.

Andrews, Albert, Grand Junction, Colo. Escape unit. 2,646,964, July 28.

Andrews, John S., Los Angeles, Calif. Combination heater outlet and air circulator. 2,646,744, July 28.

Anglo-Iranian Oil Company Limited, assignee: *See*—
Haresnape, John N., and Porter.

Anxionnaz, Rene, assignee: *See*—
Sédille, Marcel H. L.

Arbeit, Pierre, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Tank for the manufacture of glass. 2,646,648, July 28.

Archer, Sydney, and A. W. Ruddy, Albany, N. Y., assignors to Sterling Drug Inc., Wilmington, Del. Tertiary amines and preparing them. 2,647,122, July 28.

Archibald, William F., Johannesburg, Transvaal, Union of South Africa, assignor to The Distillers Company Limited, Edinburgh, Scotland. Level indicator. 2,647,251, July 28.

Armstrong, William N. B., and H. S. Kredentser, assignors to Ontario Research Foundation, Toronto, Ontario, Canada. Nonsmudging duplicating ink. 2,647,060, July 28.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Whittington, Paul E.

Arterest Manufacturing Corporation, assignee: *See*—
Meagher, William D.

Arthur, Paul, Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of diprimary diamines. 2,647,146, July 28.

Arvidsson, Algot, Ludvika, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Dry rectifier valve plate. 2,647,226, July 28.

Askevold, Robert J., Skokie, assignor to The Pure Oil Company, Chicago, Ill. Separation of alcohols from mercaptans. 2,647,150, July 28.

Atlanta Paper Company, assignee: *See*—
Forrer, Homer W.

Austin Motor Company Limited, The, assignee: *See*—
Weaving, John H., Dangerfield, and Garrett.

Autelca A. G., Gnemlikon, assignee: *See*—
Moser, Otto.

Autocar Company, The, assignee: *See*—
Hillman, Ross H.

Automatic Electric Laboratories, Inc., assignee: *See*—
Herrick, Roswell H.
Lomax, Clarence E.
Molnar, Imre.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Mackenzie, John F., and Horrocks.

Avakian, Souren: *See*—
Martin, Gustav J., Beller, and Avakian, and Moss.

Ayerst, McKenna & Harrison, Limited, assignee: *See*—
Hald, Jens G., Gad, and Deans.

Backman, Erik G., assignee: *See*—
Sjöblom, Eric A.

Baer, Adrian D., Seattle, Wash. Adjustable surgical finger splint. 2,646,794, July 28.

Bailey, Christopher E. G., London, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Telephonic pulse-code-modulation system. 2,647,238, July 28.

Baker & Co., Inc., assignee: *See*—
Stumbock, Max J., and Perrine.

Ballantine, P., & Sons, assignee: *See*—
Wahl, Eugene A., and Boehl.

Bamford, William P., Maumee, and J. E. Jendrisak and G. White, Rossford, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Process and apparatus for bending and tempering glass. 2,646,647, July 28.

Barbier, Henri B. R., Givry, par Jonet-sur-l'Aubois, France. Universal joint. 2,646,669, July 28.

Barden, Carl G., Woodland, Calif. Side rack for vehicles. 2,646,909, July 28.

Barford, Norman C.: *See*—
Broadway, Leonard F., Barford, and Pearce.

Barnes, Arthur W., Tewin, England assignor to Imperial Chemical Industries Limited. Iodoform as modifier in vinyl chloride polymerization. 2,647,107, July 28.

Barnes, Randolph C., assignor to Caterpillar Tractor Co., Peoria, Ill. Centrifugal governor having weights successively supported by spaced pivots. 2,646,978, July 28.

Barnsteiner, Alfons: *See*—
Ingraham, James W., and Barnsteiner.

Barrett, Harry B., St. Louis, Mo. Brake lining clamp. 2,646,836, July 28.

Barske, Ulrich M. W., Farnborough, assignor to Filton Limited, Leamington Spa, Warwickshire, England. Fluid seal. 2,646,999, July 28.

Bartholomew, Jess M., Michigan City, Ind., assignor to Joy Manufacturing Company. Compressor control system. 2,646,919, July 28.

Bashour, Joseph T., New York, N. Y., assignor to Stauffer Chemical Company. Ethers and making the same. 2,647,129, July 28.

Bassett, Cyrus W., Monmouth County, J. H. Vander Veer, Union County, and A. E. Welgele, Essex County, N. J., assignors, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass. Automatic door operator having automatic means for manual operation. 2,646,981, July 28.





Bauer, Oliver F., East Rochester, assignor to Gleason Works, Rochester, N. Y. Gear cutter. 2,646,611, July 28.

Beaumont Birch Company, assignee: *See*—
Hampton, John H.

Beblinger, Charles N., New Philadelphia, Ohio, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Reinforced flexible conveyor strip. 2,646,867, July 28.

Beesch, Samuel C., and R. W. Fraser, assignors to Publicker Industries Inc., Philadelphia, Pa. Production of riboflavin by microbiological fermentation. 2,647,074, July 28.

Beller, Jay M.: *See*—
Martin, Gustav J., Beller, Avakian, and Moss.

Bell Aircraft Corporation, assignee: *See*—
Young, Arthur M.

Bell Punch Company Limited, assignee: *See*—
Webb, Christopher F.

Bell, Richmond T., Grays Lake, assignor to The Pure Oil Company, Chicago, Ill. Production of methanethiol. 2,647,151, July 28.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Feldman, Carl B. H.

Belpedio, Jobby, Bridgeport, Conn. Lever type vacuum cap lifter. 2,646,705, July 28.

Bemiss-Jason Company, assignee: *See*—
Meller, Reginald B.
Pagendarm, Edward J.

Bendix Aviation Corporation, assignee: *See*—
Cooper, Irving B., Jr.
Nelson, Donald O., and Geddes.

Benjamin, Fred: *See*—
Ransom, David H., and Benjamin.

Berkelhamer, Louis H., Chicago, assignor to D. T. Siegel, Glencoe, Ill. Electrical element. 2,647,192, July 28.

Berliner, Walter M., assignee: *See*—
Morgenstern, David.

Berlyn, Martin J., Suffield, Conn., assignor to American Locomotive Company, New York, N. Y. Fuel injector. 2,647,015, July 28.

Berlyn, Martin J., Suffield, Conn., assignor to American Locomotive Company, New York, N. Y. Fuel injector. 2,647,016, July 28.

Berry, Geoffrey: *See*—
Miller, Andrew C., Kamper, and Berry.

Bethke, Harvey R., assignor to E. A. Kwiecinski, Milwaukee, Wis. Valve tappet adjusting screw. 2,646,780, July 28.

Beurtheret, Charles A. E., Paris, France, assignor to General Electric Company. Multiple feedback system. 2,647,173, July 28.

Bevis, Murray, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Electrical integrator. 2,646,925, July 28.

Bierne Associates, Inc., assignee: *See*—
Nieset, Robert T.

Bimpson, Henry S., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Protecting device for tubular conduits and the like. 2,646,818, July 28.

Bishop, H. Russell, administrator: *See*—
Patai, Imre.

Blancy, Arthur C., Los Angeles, and K. Singer, North Hollywood, Calif., assignors to Radio Corporation of America. Direct positive sound recording. 2,647,169, July 28.

Blaw-Knox Company, assignee: *See*—
Wilson, Bert A.

Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Internal grinding machine. 2,646,652, July 28.

Boal, Edgar D., assignee: *See*—
Prizer, Eugene L.

Bockmann, Arthur, Chicago, Ill. Folding box. 2,646,915, July 28.

Boehl, Wilhelm: *See*—
Wahl, Eugene A., and Boehl.

Boeke, Jan, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Manufacturing a magnetic material. 2,646,608, July 28.

Boelens, Willem W., and P. Zijp, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit-arrangement for frequency transformation of high-frequency oscillations. 2,647,205, July 28.

Boggs, Wilburn: *See*—
Pitt, Harold M., and Boggs.

Bogue Electric Manufacturing Co., assignee: *See*—
Herbst, John A.
Ransom, David H., and Benjamin.

Boles, Ted R., Toledo, Ohio. Motorboat. 2,646,765, July 28.

Booth, Frank, assignor to Oldham & Son Limited, Denton, near Manchester, England. Electrical storage battery. 2,647,157, July 28.

Booth, Frank, Denton, near Manchester, England. Making acid resisting microporous material for storage battery separators. 2,647,158, July 28.

Borges, Frank R., Jr., Fall River, Mass., assignor to American Viscose Corporation, Wilmington, Del. Self-threading, self-cleaning tension device. 2,646,941, July 28.

Bottemiller, Merton M.: *See*—
Christie, Donald R., and Bottemiller.

Bowen, Oliver G., assignor to Presan Corporation, Los Angeles, Calif. Method and apparatus for analyzing shape and bending stresses in structural elements. 2,646,716, July 28.

Bower, Bruce O., Lorain, Ohio. Automatic alarm reset mechanism. 2,646,659, July 28.

Bowne, M. S., trustee, assignee: *See*—
Webb, Cecil E.

Bows, Harry L., Los Angeles, Calif. Bedding supporting apron. 2,646,579, July 28.

Boyce, Leonard D., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Automatic carburetor choke control. 2,646,933, July 28.

Boyer, Oscar A., Cleveland, Ohio, assignor to General Electric Company. Weighing and sorting apparatus. 2,646,881, July 28.

Brandenburg, Lester L., Oakland, and G. W. Orem, Vallejo, Calif., said Orem assignor to said Brandenburg. Hermetic package sealing machine. 2,646,837, July 28.

Brink, Richard E., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Device for dressing coated abrasive belts. 2,646,654, July 28.

British Oxygen Company Limited, The, assignee: *See*—
Haworth, John W., and Cooper.

Broadway, Leonard F., Ickenham, N. C. Barford, Southend, and A. F. Pearce, Hampton Hill, assignors to Electric & Musical Industries Limited, Hayes, England. Electron tube structure for the production of annular beams of electrons. 2,647,220, July 28.

Bröhl, August: *See*—
Wagner, Adam, Bröhl, and Jung.

Brouillard, Robert E., Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing metal phthalocyanines. 2,647,127, July 28.

Brouillard, Robert E., Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing metal phthalocyanines. 2,647,128, July 28.

Brown, Barrelmore B., Lancaster, Pa., assignor to Radio Corporation of America. Dispenser cathode. 2,647,216, July 28.

Brown & Bigelow, assignee: *See*—
Vierling, John A.

Brown, Charles H., Breckenridge, Tex. Power steering and centering means for trailer wheels. 2,646,850, July 28.

Brown, Frank E., Burbank, Calif. Cartridge syringe. 2,646,798, July 28.

Brown, George T., Jr., assignor to The National Cash Register Company, Dayton, Ohio. Hand stamp typesetting device. 2,646,748, July 28.

Brown, Roy W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Aircraft undercarriage. 2,646,948, July 28.

Brownell, Clifford E., assignor to Lisk-Savory Corporation, Buffalo, N. Y. Galvanizing machine extracting mechanism. 2,646,772, July 28.

Broyles, Neva L., Cashmere, Wash. Sleeper toy. 2,647,195, July 28.

Bruck, George G., assignor to Specialties, Inc., Syosset, N. Y. Means and method for assembling electric circuit components. 2,647,224, July 28.

Brummer, Olin, Chicago Heights, Ill. Oil seal means or the like. 2,647,002, July 28.

Brunnhoelzl, William, Deep River, Conn. Combined flashlight and emergency light. 2,647,254, July 28.

Brush Development Company, The, assignee: *See*—
Williams, Alfred L. W.

Brussel, Sophia L., co-executor, assignee: *See*—
McLeod, Roy D.

Brynildsrud, Finn, Moss, Norway. Three-dimensional duplicating engraving or milling machine. 2,646,725, July 28.

Buccanero, Celeste F., Wakefield, Mich. Water tube for fluid operated cock drills. 2,646,967, July 28.

Buchner, Robert B., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Apparatus for breaking contact resistance in a marker-controlled selector. 2,647,165, July 28.

Buker, Charles B., Birmingham, Mich., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Device for bend testing sheets. 2,646,679, July 28.

Burnham, John, Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Production of insulated condenser electrodes. 2,647,079, July 28.

Burnham, Marston, assignee: *See*—
Prizer, Eugene L.

Burton, J. Kent, Lancaster, Pa., assignor to Radio Corporation of America. Apparatus for forming settled coatings. 2,646,773, July 28.

Burton, William P., Orange, assignor to The M. W. Kellogg Company, Jersey City, N. J. Separation of organic compounds. 2,647,139, July 28.

Butcher, Edgar M., Blaby, assignor to Power Jets (Research and Development) Limited, London, England. Rotary bladed or like assembly. 2,646,920, July 28.

Butler, Ernest L., Lynn, and O. M. Holmes, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping stitch-down uppers over lasts. 2,646,583, July 28.

Cable-Link Corporation, assignee: *See*—
Daigle, Leo T.

Cadwell, Clarence J., Carpinteria, and F. M. Adamson, Los Angeles, assignors to The Cadwell Corporation, Beverly Hills, Calif. Tripod. 2,646,956, July 28.

Cadwell Corporation, The, assignee: *See*— Cadwell, Clarence J., and Adamson.

Calandra, Joseph C., Chicago, Ill., and E. C. Adams, Jr., Elkhart, Ind., assignors to Research Corporation, New York, N. Y. N-(2-pyridyl) 2-chloro-3-amino-1,4-naphthoquinones. 2,647,123, July 28.

Caldecourt, Victor J.: *See*— Saunderson, Jason L., Caldecourt and Peterson.

California Research Corporation, assignee: *See*— Condit, Paul C., and Spence. Standing, Marshall B., and Chittum.

Campbell, Charles R., Jr., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Selective staking machine. 2,646,676, July 28.

Canadian Refractories Limited, assignee: *See*— Lathe, Frank E.

Carls, William, co-executor, assignee: *See*— McLeod, Roy D.

Carpenter, Clayton A., Wilmington, and R. S. Crog, assignors to Union Oil Company of California, Los Angeles, Calif. Apparatus for heating oil wells. 2,647,196, July 28.

Carrau, Mario J., Montevideo, Uruguay. Method of and device for saving shaving soap. 2,646,878, July 28.

Carstensen, Sue B., Redondo Beach, Calif. Glue dispensing article. 2,646,879, July 28.

Carter Carburetor Corporation, assignee: *See*— Boyce, Leonard D.

Carver, Fred S., Short Hills, assignor to Fred S. Carver, Inc., Summit, N. J. Valve for controlling high pressure fluids. 2,646,959, July 28.

Carver, Fred S., Inc., assignee: *See*— Carver, Fred S.

Castle, Vernon D., assignor to Titus Manufacturing Corporation, Waterloo, Iowa. Grille structure. 2,646,741, July 28.

Catanese, Paul, Norristown, Pa. Thorn-removing device and stem cutter. 2,646,621, July 28.

Caterpillar Tractor Co., assignee: *See*— Barnes, Randolph C. Deffenbaugh, John L.

Cavanaugh, Robert M., C. B. Flack, and R. H. Weir, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of isophthalic acid. 2,647,141, July 28.

Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Filling stop motion for narrow ware looms. 2,646,827, July 28.

Celanese Corporation of America, assignee: *See*— Cramer, William J., Jr., and Fritz, Johnson, Elmer L., and Delagrange.

Cementation Company Limited, The, assignee: *See*— Godenir, Albert.

Chamberlin, Coleman R., Thompson Ridge, N. Y. Filing unit. 2,646,801, July 28.

Chambers, James H., Fresno, Calif. Nursery bottle holder. 2,646,952, July 28.

Chambers, John M., Winchester, assignor by mesne assignments, to Stone & Webster Engineering Corporation, Boston, Mass. Alcohol distillation process. 2,647,078, July 28.

Chapman, Roger, and R. H. Trier, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Loud-speaker baffle with elongated aperture for the egress of sound. 2,646,851, July 28.

Chase National Bank of the City of New York, The, executor: *See*— Gilbert, Charles E.

Chaussee, Fred, Rapid City, S. Dak. Fence wire stretcher. 2,646,970, July 28.

Check, Alex J., Struthers, Ohio. Electronic static discharge apparatus. 2,647,223, July 28.

Cherry-Burrell Corporation, assignee: *See*— Lippold, Adolph J.

Chiksan Company, assignee: *See*— Parmesan, Daniel J.

Chittum, Joseph F.: *See*— Standing, Marshall B., and Chittum.

Chodziesner, Georg F., Rondi, near Sydney, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Weighing device with electrical valve control means. 2,646,904, July 28.

Christensen, Paul M.: *See*— Cole, Thomas M., and Christensen.

Christie, Donald R., and M. M. Bottemiller, Wadena, Minn. Dental matrix apparatus. 2,646,622, July 28.

Cinami, Armando R., Hoxsie, R. I., assignor to The Mason Box Company, Attleboro Falls, Mass. Holder for articles of jewelry and the like. 2,646,953, July 28.

Claff, Chester E., and C. A. Moeller, assignors to Norfolk Paper Company, Inc., Randolph, Mass. Reinforced tray. 2,646,914, July 28.

Clark Controller Company, The, assignee: *See*— Cortelli, John A.

Clark, John C., Marshall, Tex. Socket for plug-in type electric meters. 2,647,243, July 28.

Clawsey, Eva and J. D., New York, N. Y. Dress form. 2,646,907, July 28.

Clawsey, John D.: *See*— Clawsey, Eva and J. D.

Clemens, George S., Evanston, assignor to National Dryer Manufacturing Corporation, Chicago, Ill. Forced air drier. 2,646,629, July 28.

Cleveland Crane & Engineering Company, The, assignee: *See*— Dehn, Roy F.

Clikpleet, Inc., assignee: *See*— Terry, Mildred B.

Coates, Clyde E., and A. L. Williams, assignors to Federal Machine & Welder Company, Warren, Ohio. Apparatus for producing tubular members. 2,647,193, July 28.

Coates, Norman, executor: *See*— Gilbert, Charles E.

Conts, Jesse C., Pocatello, Idaho. Ellipsograph. 2,646,623, July 28.

Coghill, James T., Fairport, N. Y., and H. S. Hill, Kenogami, Quebec, Canada, assignors, by mesne assignments, to Curlator Corporation, Rochester, N. Y. Apparatus for treating wood pulp. 2,646,728, July 28.

Cole, Thomas M., New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J. Circuit breaker. 2,647,186, July 28.

Cole, Thomas M., New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J. Calibration of automatic circuit breakers. 2,647,187, July 28.

Cole, Thomas M., New York, N. Y., and P. M. Christensen, West Orange, assignors to Federal Electric Products Company, Newark, N. J. Terminal panel assembly. 2,647,225, July 28.

Colley, Russell S., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Angular tubular joint assembly. 2,647,000, July 28.

Commonwealth Engineering Company of Ohio, The, assignee: *See*— Wenzelberger, Elwood P.

Communication Engineering Pty. Limited, assignee: *See*— Chodziesner, Georg F.

Compagnie Francaise des Matieres Colorantes, assignee: *See*— Lantz, Robert, and Mingasson.

Condit, Paul C., Berkeley, and J. A. Spence, Richmond, assignors to California Research Corporation, San Francisco, Calif. Production of oxygen-containing carbon compounds. 2,647,149, July 28.

Contento, Joseph A., Albany, N. Y. Lady's lighted handbag. 2,647,201, July 28.

Continental Elastic Corporation, The, assignee: *See*— O'Neill, Harry T.

Coon, Harold R., Sr., and E. J. Rapp, Toledo, Ohio, assignors to Lynch Corporation, Anderson, Ind. Stacking and elevating device. 2,646,898, July 28.

Cooper, Irving R., Jr., Maywood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Control system. 2,647,229, July 28.

Cooper, Morris G.: *See*— Haworth, John W., and Cooper.

Cortelli, John A., Cleveland Heights, assignor to The Clark Controller Company, Cleveland, Ohio. Automatic starter for induction motors. 2,647,231, July 28.

Coughlin, Leo, Toronto, Ontario, Canada. Spark plug. 2,646,783, July 28.

Couillette, James H., assignor to Industrial Research Institute of the University of Chattanooga, Chattanooga, Tenn. Nozzle. 2,647,017, July 28.

Courtaulds Limited, assignee: *See*— Waters, David J., and Wilson.

Couts, Tony R., Long Beach, and E. R. Rankin, deceased (V. M. Rankin, executrix), South Gate, Calif., said V. M. Rankin assignor to said Couts. Delayed action circuit breaker for vehicles. 2,647,181, July 28.

Cox, Thomas O., Burbank, H. C. Rankin, North Hollywood, and S. A. Trott, Long Beach, assignors to Sheffield Instrument Company, Burbank, Calif. Automatic shutoff for tank filling. 2,646,817, July 28.

Coykendall, William E., Jr., Riverside, assignor to Machlett Laboratories Incorporated, Springdale, Conn. Shockproof mounting. 2,646,958, July 28.

Coyle, Irving B., Portland, Oreg. Tongs. 2,647,006, July 28.

Cramer, William J., Jr., and H. W. Fritz, Jr., Cumberland, Md., assignors to Celanese Corporation of America, New York, N. Y. Dyeing of textile materials using alkylamine alginate thickeners. 2,647,035, July 28.

Crane Co., assignee: *See*— Magos, John P., Schmidt, and De Craene.

Crog, Richard S.: *See*— Carpenter, Clayton A., and Crog.

Crompton & Knowles Loom Works, assignee: *See*— Cederlund, Albert.

Crowther, Bernard, Harden, near Bingley, assignor to Flexicon Cord Services, Limited, Bradford, England. Power-transmission adjusting device. 2,646,690, July 28.

Cucksey, Morris W.: *See*— Lange, Richard F., and Cucksey.

Cuervo, Joseph, Woodside, N. Y. Toy airplane and track. 2,646,645, July 28.

Curlator Corporation, assignee: *See*— Coghill, James T., and Hill.

Curtis, John C., Claremont, N. H., assignor to Joy Manufacturing Company. Mobile drilling apparatus. 2,646,968, July 28.





Cutforth, Howard G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well cementing materials and their application. 2,646,846, July 28.

Daigle, Leo T., assignor to Cable-Link Corporation, Detroit, Mich. Trolley conveyer. 2,646,872, July 28.

Daly, Charles T., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric amplifier with automatic gain control. 2,647,176, July 28.

Danciart, Theodore T., Alhambra, assignor to State Mfg. Co., Los Angeles, Calif. Canopy construction. 2,646,810, July 28.

Dangerfield, Kenneth J.: *See*— Weaving, John H., Dangerfield, and Garrett.

Daniels, Charles D., Mountainair, N. Mex. Pivoted jaw wrench. 2,646,709, July 28.

Darnell, Gerard D.: *See*— Stuart, Jasper C., and Darnell.

Darnell, Rex C., Dexter, assignor to King-Seeley Corporation, Ann Arbor, Mich. Interval timer. 2,646,844, July 28.

Dart, Jack C.: *See*— Savage, Reuben T., and Dart.

Davies Laboratories, Inc., The, assignee: *See*— Pear, Charles B., Jr.

Davignon, Ermand H., assignor to Metals & Controls Corporation, Attleboro, Mass. Composite metal having precious metal surface and beryllium-copper base. 2,646,616, July 28.

Davis, Arthur C., Burbank, Calif. Sound recording and reproducing apparatus. 2,646,989, July 28.

Davis, Charles W., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J. Crystal cap and holder. 2,647,210, July 28.

Davis, Robert O., and N. B. Osborne, assignors to Stearns Manufacturing Company, Adrian, Mich. Means for preventing collapse of molded concrete products when core is withdrawn. 2,646,607, July 28.

Dean, Walter, Hempstead, assignor to The Sperry Corporation, Great Neck, N. Y. Nonambiguous cycle matching system. 2,647,257, July 28.

Deans, Sidney A. V.: *See*— Hald, Jens G., Gad, and Deans.

Dearborn Chemical Company, assignee: *See*— Gunderson, Lewis O.

Deatherage, William N., assignee: *See*— Simons, Lowell W.

De Craene, Edmond P.: *See*— Magos, John P., Schmidt, and De Craene.

Deffenbaugh, John L., assignor to Caterpillar Tractor Co., Peoria, Ill. Wheel structure. 2,647,025, July 28.

Dehn, Roy F., Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Crane cab. 2,646,892, July 28.

De Jager, Frank, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric circuit-arrangement. 2,647,208, July 28.

Delagrange, Carl R.: *See*— Johnson, Elmer L., and Delagrange.

Deland, Paul, Montreal, Quebec, Canada. Vending machine. 2,647,029, July 28.

Den Hertog, Martinus, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Voice-frequency code signaling system. 2,647,164, July 28.

Denning, Thomas J., Hudson, Colo. Cultivator. 2,646,738, July 28.

Dennison Manufacturing Company, assignee: *See*— Owen, Haddon S. Sloan, Donald D.

De Puy, Seymour M., Schenectady, N. Y., assignor to General Electric Company. Thermally actuated electric switch. 2,647,189, July 28.

De Tartas, Donald A.: *See*— Humfeld, George P., and de Tartas.

Detroit Trust Company, coexecutor, assignee: *See*— McLeod, Roy D.

De Wald, William E., Chicago, Ill. Helical shaft machine. 2,646,687, July 28.

Dewey, Chalmers B., Manhasset, and N. C. Zatsky, Valley Stream, assignors to Reeves Instrument Corporation, New York, N. Y. Prepatch connector bay. 2,647,244, July 28.

Dickert, Joseph J., Jr.: *See*— Hartongh, Howard D., Dickert, and Meisel.

Dickover, Marion W.: *See*— Rupp, John L., Dickover, Willihnganz, and Snyder.

Diels, Albert F. M., assignor to Poudreries Reunies de Belgique, Societe Anonyme, Brussels, Belgium. Grenade fuse. 2,646,750, July 28.

Dille & McGuire Mfg. Co., assignee: *See*— Knarzer, Herman C.

Dion, Amedee, assignor to Dion Freres Inc., Ste-Therese de Blainville, Quebec, Canada. Flow apron for threshers. 2,646,802, July 28.

Dion Freres Inc., assignee: *See*— Dion, Amedee.

Distillers Company Limited, The, assignee: *See*— Archibald, William F.

Dixie Mercerizing Company, assignee: *See*— Luther, William F.

Di Zazzo, Benedetti, Syracuse, N. Y. Fountain attachment for combs. 2,646,802, July 28.

Dobrolet, Michael: *See*— Robinson, John W., and Dobrolet.

Dodge, Adiel Y., Rockford, Ill. Air-cooled brake. 2,646,862, July 28.

Doering, William V., and L. H. Knox, Katonah, assignors to Research Corporation, New York, N. Y., Photochemical preparation of tropilidenes. 2,647,081, July 28.

Donohoe, Martin A., Gates, assignor to Gleason Works, Rochester, N. Y. Chuck and method of chucking. 2,646,723, July 28.

Doud, Edward, Richland, Wash., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Water soaking of rayon cakes before centrifugal washing. 2,647,038, July 28.

Dow Chemical Company, The, assignee: *See*— Anderson, Arthur W., and Moeller. Saunderson, Jason L., Caldecourt, and Peterson.

Downey, Richard M., North Judson, Ind., assignor to United States Gypsum Company, Chicago, Ill. Method and apparatus for fiberizing molten material. 2,646,593, July 28.

Doyen, Juan A., Los Alamos, N. Mex. Vacuum spark control. 2,646,781, July 28.

Draper, William H., Jr., Watertown, Mass. Adjustable holding device. 2,646,903, July 28.

Dresser Equipment Company, assignee: *See*— Slater, Willard R.

Drieschman, Donald F.: *See*— Sorg, Harold E., Eaves, and Drieschman.

Dryden, Horace W., Modesto, Calif. Incubator with automatic temperature and humidity control. 2,646,930, July 28.

Dulak, August, West, Tex. Swimming pool cleaning device. 2,646,889, July 28.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*— Maron, Meyer.

Dumousseau, Claude: *See*— Touraton, Emile, and Dumousseau.

Duncan, Robert K., Woodburn, Ind., assignor to Radio Corporation of America. Electroconstical signal transducer. 2,647,162, July 28.

Dunham, George W., Westport, Conn., assignor to Savage Arms Corporation, Utica, N. Y. Lawn mower construction. 2,646,658, July 28.

Dunham, Ronald R., Birmingham, Mich. Fish lure. 2,646,642, July 28.

Dupler, Paul E.: *See*— Willis, Hilary B., and Dupler.

Du Pont, E. I., de Nemours and Company, assignee: *See*— Arthur, Paul, Jr. Cavanaugh, Robert M., Flack, and Weir. Doud, Edward. Engelhardt, Vaughn A. Firestine, John C. Fogg, Robert E. Joyce, Robert M. Martin, Elmore L. Mighton, Harold R. Millhiser, Frederick R. O'Brien, William R., and Scantling. Shivers, Joseph C., Jr. Vinton, William H. Vinton, William H., and Firestine. Williamson, Thurmond A.

Durand & Huguenin A. G., assignee: *See*— Glenz, Karl.

Dyer, Clarence A., Glenside, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Primary electrolytic cell or group of cells. 2,647,155, July 28.

Eames, William F., Westfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Moving stairway handrail control. 2,646,868, July 28.

Easterday, Horace H., Thermal, Calif. Rubber core mold. 2,646,606, July 28.

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Device for disposing of ejected cartridge cases. 2,646,722, July 28.

Eaves, Hubert H.: *See*— Sorg, Harold E., Eaves, and Drieschman.

Eby, Hugh B., Inc., assignee: *See*— Ritter, Edwin E.

Eck, John R.: *See*— Thomas, Charles A., and Eck.

Edelmann, E., & Co., assignee: *See*— Edelmann, Robert B.

Edelmann, Robert B., assignor to E. Edelmann & Co., Chicago, Ill. Battery service kit. 2,646,873, July 28.

Edwards Company, Inc., assignee: *See*— Fish, George R.

Edwards, Raleigh M., Sacramento, Calif. Sprinkler head. 2,647,014, July 28.

Eggleston, Robert W., Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Space heating means for dynamo-electric machines. 2,647,215, July 28.

Eitel-McCullough, Inc., assignee: *See*— Sorg, Harold E., Eaves, and Drieschman. Williams, Paul D.

Electric & Musical Industries, Limited, assignee: *See*— Broadway, Leonard F., Barford, and Pearce.

Electric Storage Battery Company, The, assignee: *See*— Lighton, Lester E.

Ellern, Herbert, Ferguson, assignor to Universal Match Corporation, St. Louis, Mo. Composition for stiffening paper match splints. 2,647,048, July 28.

Elmer, William B., Boston, Mass. Luminaire for street lighting. 2,647,202, July 28.

Engelhardt, Vaughn A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkoxypentadienoate polymer compositions. 2,647,106, July 28.

Engelhardt, Vaughn A., Claymont, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparing 2,3-butadienylamines. 2,647,147, July 28.

Engineering Development Company, Incorporated. The, assignee: *See*—
Wagner, George P.

Enzler, Paul R., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Making switch contact. 2,646,613, July 28.

Erbe, George, Jersey City, N. J. Inserting tool for snap ties. 2,646,703, July 28.

Ericson, George R., Kirkwood, Mo., assignor to American Car and Foundry Company, New York, N. Y. Rotary plug with sealing sleeve. 2,646,960, July 28.

Erie Mining Company, assignee: *See*—
Sisco, Carl W.

Erikson, Carl F., White Plains, N. Y., assignor, by mesne assignments, to Nathan Manufacturing Corp. Control unit for steam generators. 2,646,751, July 28.

Eudy, Fluta H., Fairfield, Calif. Reinforced shorts. 2,646,572, July 28.

Evans, Charles S., Atherton, Calif. Bed clothing support. 2,646,578, July 28.

Everson, Roy B., Chicago, Ill. Means for direct feed automatically proportioning of chlorine gas. 2,647,083, July 28.

Eves, Joseph R.: *See*—
Tillyer, Edgar D., and Eves.

Fabrique d'Horlogerie de Fontainemelon S. A., assignee: *See*—
Von Aesch, Otto.

Fairbank, Murry N., Belmont, assignor to Polaroid Corporation, Cambridge, Mass. Photoflash gun. 2,646,672, July 28.

Fairfield, Hugh J., Winnipeg, Manitoba, Canada. Apparatus for oiling fabrics prior to reduction to fiber. 2,646,774, July 28.

Farbenfabriken Bayer, assignee: *See*—
Jonas, Heinz.

Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Spark stylus recording apparatus. 2,647,033, July 28.

Favre, Jules, Neuchatel, assignor to Paillard S. A., Sainte-Croix, Switzerland. Motion picture camera. 2,646,718, July 28.

Feder, Edgard, New York, N. Y. Display container. 2,646,875, July 28.

Federal Electric Products Company, assignee: *See*—
Cole, Thomas M.
Cole, Thomas M., and Christensen.
Humpage, Harold A.

Federal Machine & Welder Company, assignee: *See*—
Coates, Clyde E., and Williams.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Davis, Charles W.
Krause, Irving A.

Feldman, Carl B. H., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Antenna system. 2,647,212, July 28.

Ferguson, Murray, assignee: *See*—
Prizer, Eugene L.

Ferguson, William C., assignor to The Presstite Engineering Company, St. Louis, Mo. Plastic-coated pipe and pipe fittings. 2,646,822, July 28.

Field, Crosby, assignor to Flaklce Corporation, Brooklyn, N. Y. Extrusion apparatus and method. 2,646,594, July 28.

Filton Limited, assignee: *See*
Barske, Ulrich M. W.

Findley, John E., Springfield, Colo. Sediment bulb for carburetors. 2,646,884, July 28.

Finn, Robert S.: *See*—
Hawkins, James E., and Finn.

Firestine, John C.: *See*—
Vinton, William H., and Firestine.

Firestine, John C., South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic emulsions containing sensitizing dyes. 2,647,050, July 28.

Firestone Tire & Rubber Co., The, assignee: *See*—
Ambelang, Joseph C.
Brown, Roy W.
Griffith, John F., Lange, and Fisher.
Hensley, William A.
Humphrey, Bingham J., and Reid.
Kitchen, Leland J.
Kubaugh, Le Roy M.
Smith, George E. P., Jr.
Smith, Walter K.
Smith, William M., Jr.
Smith, William M., Jr., and Reid.
Wiseman, Park A.

Fischer, Arthur H.: *See*—
Vig, Bennie T., and Fischer.

Fiser, Harlan N., Pittsburgh, Pa. Sleeve valve means for two-cycle reciprocating engines. 2,646,779, July 28.

Fish, George R., assignor to Edwards Company, Inc., Norwalk, Conn. Gong construction and mounting. 2,646,768, July 28.

Fisher, Bernard C., Jersey City, N. J. Apparatus for controlling flame propagation in internal-combustion engines. 2,646,782, July 28.

Fisher, Donald H., and W. Jones, assignors to Pye Limited, Cambridge, England. Radio-frequency tuning device. 2,646,684, July 28.

Fisher, Thomas W., Jr.: *See*—
Griffith, John F., Lange, and Fisher.

Fitz Patrick, James L. G., New York, N. Y., assignor to American Machine and Foundry Company. Self-leveling storing and dispensing apparatus. 2,647,030, July 28.

Flack, Carl R.: *See*—
Cavanaugh, Robert M., Flack, and Weir.

Flaklce Corporation, assignee: *See*—
Field, Crosby.
Stover, Egbert C.

Fletcher, Henry C.: *See*—
Hinz, Henry E., and Fletcher.

Flexicon Cord Services, Limited, assignee: *See*—
Crowther, Bernard.

Florence Stove Company, assignee: *See*—
Reeves, Herbert M.

Florschutz, Fritz E., and C. G. Lentjes, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker mechanism. 2,647,182, July 28.

Fogg, Robert E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for trimming and notching signatures. 2,646,726, July 28.

Ford, George E.: *See*—
Ratcliffe, Fred A., Ryan, and Ford.

Forrer, Homer W., Atlanta, Ga., assignor to Atlanta Paper Company. Bottle carrier. 2,646,918, July 28.

Forrester, John, Burnside, Glasgow, Scotland. Loudspeaker cabinet. 2,646,852, July 28.

Fortney, David F., Towanda, Pa., assignor to Sylvania Electric Products Inc., Salem, Mass. Improved calcium fluorophosphate phosphor contalning aluminum. 2,647,087, July 28.

Foulke, Ted E., Highland Heights, Ohio, assignor to General Electric Company. Electric discharge lamp. 2,647,217, July 28.

Fontes, David A., Hannibal, Mo. Self-propelled automobile washing machine. 2,646,586, July 28.

Fowler, Shortle F., Warsaw, Ohio. Figure formed cycle. 2,646,990, July 28.

Fram Corporation, assignee: *See*—
James, William S.
Robinson, John W., and Dobrolet.

Francisco, Marshall E., San Jose, Calif. Handling apparatus. 2,646,897, July 28.

Frankel, Herbert, assignor of one-half to R. W. Gunson (Seeds) Limited, London, England. Photoelectric sorting of small articles. 2,646,880, July 28.

Franklin, Clarence W., Clarkesville, Ga. Picker stick check. 2,646,826, July 28.

Fraser, Byron W.: *See*—
Beesch, Samuel C., and Fraser.

Frisch, Kurt C., and P. D. Shroff, Pittsfield, Mass., assignors to General Electric Company. Triorganosilylbenzamides. 2,647,137, July 28.

Fritz, Harry W., Jr.: *See*—
Cramer, William J., Jr., and Fritz.

Fromme, Earl F., Kirksville, Mo. Circulating air heating furnace with internal air heating conduit. 2,646,791, July 28.

Frost, Hilldreth, Jr., Denver, Colo. Flotation machine. 2,646,882, July 28.

Frost, Robert C., assignor to Perfex Corporation, Milwaukee, Wis. Modulating gas control. 2,646,932, July 28.

Fučik, Karel and L. Lábler, assignors to Spofa, Spojene farmaceuticke zavody, narodni podnik Prague, Czechoslovakia. Manufacture of biologically active coumarine and product thereof. 2,647,131, July 28.

Fulton, Wilbur C., Pittsburgh, and R. S. Tusing, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Quick detachable connector for metal-enclosed switchgears. 2,647,247, July 28.

Fundingsland, Laurence O., Burlington, Colo. Bearing for weeder rods. 2,646,737, July 28.

Gabrielsen, Christian, assignor to Rowe Manufacturing Co., Inc., Whippany, N. J. Change device for electrical coin registers. 2,646,806, July 28.

Gad, Inger G.: *See*—
Hald, Jens G., Gad, and Deans.

Galkin, Joseph, New York, N. Y. Folder for blindstitch sewing machines. 2,646,759, July 28.

Galley, Andrew H., York Mills, Toronto, Ontario, Canada, assignor, by mesne assignments, to Luxene, Inc., New York, N. Y. Sink and drainboard assembly. 2,646,575, July 28.

Gandee, James W., Los Angeles, Calif. Transparency display device. 2,646,636, July 28.

Gardner, Edward M.: *See*—
Gmoser, Carl H., and Gardner.

Garduño, Felipe R., Mexico City, Mexico. Moving signal apparatus. 2,646,786, July 28.





Garnier, Paul, Lyon, assignor to Societe Pinguely, Ville-Gozet, Paris, France. Mechanical shovel for narrow underground galleries. 2,646,901, July 28.

Garrett, Thomas K.: *See*—
Weaving, John H., Dangerfield, and Garrett.

Geddes, Robert P., Jr.: *See*—
Nelson, Donald O., and Geddes.

Geddes, Walter H., Dayton, G. G. Karlson, Miamisburg, and M. Werensky, assignors to United Aircraft Products, Inc., Dayton, Ohio. Joining together the ends of thin-walled aluminum heat exchange tubes. 2,646,620, July 28.

Gelgy, J. R., A. G., assignee: *See*—
Pugin, André.

General Aniline & Film Corporation, assignee: *See*—
Brouillard, Robert E.

General Electric Company, assignee: *See*—
Beurtheret, Charles A. E.
Boyer, Oscar A.
De Puy, Seymour M.
Faus, Harold T.
Foulke, Ted E.
Frisch, Kurt C., and Shroff.
McCarty, Walter P.
Reek, Donald C.
Sauer, Robert O.

General Industries Company, The, assignee: *See*—
Slough, Frank M.

General Steel Castings Corporation, assignee: *See*—
Travilla, James C., Jr.

George, Henri, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Radiator. 2,647,197, July 28.

George, Oscar C., Bronson, Mich. Handle for fishing rods. 2,646,640, July 28.

George, Oscar C., Bronson, Mich. Fishing rod handle. 2,646,641, July 28.

Gilbert, Charles E., deceased, New York, N. Y.; M. D. Gilbert, N. Coates, and The Chase National Bank of the City of New York, executors. Readily attachable electrical connector. 2,647,245, July 28.

Gilbert, Charles E., deceased, New York, N. Y.; M. D. Gilbert, N. Coates, and The Chase National Bank of the City of New York, executors. Electric lamp socket with pin tap connecting means. 2,647,246, July 28.

Gilbert, Margaret D., executrix: *See*—
Gilbert, Charles E.

Gillespie, Elwyn R., San Pablo, Calif. Odorless urinal. 2,646,574, July 28.

Gillette Company, The, assignee: *See*—
Testi, Nicholas.

Gingold, Ell, assignee: *See*—
Just, John H.

Glass, Marvin I., Chicago, Ill. Hammer toy. 2,646,646, July 28.

Gleason Works, assignee: *See*—
Bauer, Oliver F.
Donohue, Martin A.

Glenz, Karl, assignor to Durand & Huguenin A. G., Basel, Switzerland. Stable water-soluble salts of sulfuric acid esters of leuco-anthraquinone azo-dyestuffs. 2,647,112, July 28.

Gmoser, Carl H., Maspeth, and E. M. Gardner, Brooklyn, assignors to Merrill Brothers, New York, N. Y. Adjustable lifting clamp. 2,647,007, July 28.

Godenir, Albert, assignor to The Cementation Company Limited, London, England. Tamping machine. 2,646,729, July 28.

Godsey, Jack M., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Jet combustion fuel. 2,647,046, July 28.

Goldberg, Herman, Bartlett, assignor to Snow Manufacturing Company, Bellwood, Ill. Machine tool. 2,646,700, July 28.

Goldberg, Max and R. J., New York, N. Y. Filling machine with endless belt conveyers for fibrous materials. 2,646,913, July 28.

Goldberg, Robert J.: *See*—
Goldberg, Max and R. J.

Goldman, Martin, Jackson Heights, N. Y. Ball throwing device. 2,646,785, July 28.

Good, Wayne W., assignor to Harter Corporation, Sturgis, Mich. Upholstered seat structure. 2,646,840, July 28.

Goodman Manufacturing Company, assignee: *See*—
Lundquist, Richard C.

Goodrich, B. F., Company, The, assignee: *See*—
Colley, Russell S.
Vincent, Walter R.

Gottesman, Herman, assignor to The Permaline Company, Clifton, N. J. Apparatus for effecting pin point lamination of plastic liners to carton board. 2,646,835, July 28.

Gourdon, Robert, assignor to Societe Anonyme dite "Centre d'Etudes M. B. A." (Mecanique, Ballistique, Armement), Paris, France. Independent actuator tens transfer device. 2,646,929, July 28.

Greemen, John G., Detroit, Mich. Incinerator with secondary combustion chamber for volatiles. 2,646,758, July 28.

Griffith, John F., Pottstown, R. W. Lange, Boyertown, T. W. Fisher, Jr., Elverson, Pa., assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Latex coagulation process. 2,647,103, July 28.

Griswold, Donald G., Alhambra, Calif. Backflow prevention device. 2,646,816, July 28.

Guerry, William R., Canton, assignor to Republic Steel Corporation, Cleveland, Ohio. Protector skid for thermocouples. 2,647,153, July 28.

Gunderson, Lewis O., Park Ridge, assignor to Dearborn Chemical Company, Chicago, Ill. Inhibiting foaming in water. 2,647,088, July 28.

Gunderson, Lewis O., Park Ridge, assignor to Dearborn Chemical Company, Chicago, Ill. Acylated imidazolines and preparing the same. 2,647,125, July 28.

Gunson, R. W., (Seeds) Limited, assignee: *See*—
Frankel, Herbert.

Günther, Ulrich, Zurich, Switzerland. Gear teeth for toothed gears. 2,646,692, July 28.

Guyennon, André: *See*—
Péguet, Georges H., and Guyennon.

Hackmann, Frank L., Rochester, Minn. Method and apparatus for making a variegated frozen confection. 2,646,757, July 28.

Hahn, Frank J., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Pigment pastes comprising a pigment and a salt of a copolymer of styrene and a maleic half-ester. 2,647,094, July 28.

Hald, Jens G., and I. G. Gad, Copenhagen, Denmark, and S. A. V. Deans, Rosemount, Montreal, assignors to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada. Tetraethylthiuram disulfide derivatives. 2,647,145, July 28.

Hampton, John H., Oaklyn, N. J., assignor to Beaumont Birch Company, Philadelphia, Pa. Apparatus for conveying dust, fly ash, and the like. 2,647,020, July 28.

Handley, Harold E., Jackson, Mich. Gas burner and secondary air supply means. 2,646,842, July 28.

Handy, Ralph L., Mishawaka, assignor to The Studebaker Corporation, South Bend, Ind. Starter switch apparatus. 2,647,178, July 28.

Hanf, Edward M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Looptaker mounting means for sewing machines. 2,646,760, July 28.

Hanson, John, Three Hills, Alberta, Canada. Valve position indicator. 2,646,767, July 28.

Hardgrove, Robert R.: *See*—
Lake, Ernest T., and Hardgrove.

Hardy, Elizabeth M.: *See*—
Hardy, William B. and E. M.

Hardy, Peter S., Bridgeport, Conn. Molder's sand treating and conveying apparatus. 2,646,602, July 28.

Hardy, William B. and E. M., Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparing sulfuric acid half esters of leuco anthraquinones in mildly alkaline aqueous medium. 2,647,124, July 28.

Haresnape, John N., and F. W. B. Porter, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Catalytic cracking of petroleum hydrocarbons with a clay treated catalyst. 2,647,075, July 28.

Haresnape, John N., and F. W. B. Porter, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Catalytic cracking of petroleum hydrocarbons with a clay treated catalyst. 2,647,076, July 28.

Harmon, Sydney E., Evanston, Ill. Telephone shoulder rest. 2,647,171, July 28.

Harter Corporation, assignee: *See*—
Good, Wayne W.

Hartford National Bank and Trust Company, trustee assignee: *See*—
Bailey, Christopher E. G.
Boeke, Jan.
Boelens, Willem W., and Zijp.
Buchner, Robert B.
De Jager, Frank.
Jansen, Pieter C., and Weehuizen.
Tellegen, Bernardus D. H.

Hartough, Howard D., Pitman, J. J. Dickert, Jr., Westville, and S. L. Meisel, West Deptford Township, Gloucester County, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Preparation of nitrogen-containing materials from olefins. 2,647,117, July 28.

Hartough, Howard D., Pitman, J. J. Dickert, Jr., Westville, and S. L. Meisel, West Deptford Township, Gloucester County, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Preparing bis-(substituted tetrahydro-1, 3-oxazino)-methanes. 2,647,118, July 28.

Harvey, Valentine P.: *See*—
Mullns, Desmond W., Ruru, Harvey, and Nichols.

Hatherell, George A., Roscoe, Calif. Scoring system for ball games. 2,646,987, July 28.

Hawkins, James E., and R. S. Finn, assignors to Seismograph Service Corporation, Tulsa, Okla. Rectifier balancing circuit. 2,647,207, July 28.

Haworth, John W., and M. G. Cooper, assignors to The British Oxygen Company Limited, London, England. Purification of melamine. 2,647,119, July 28.

Haworth, Lionel, assignor to Rolls-Royce Limited, Derby, England. Control for aircraft gas-turbine power plants having variable-pitch airscrews. 2,646,847, July 28.

Heald Machine Company, The, assignee: *See*—
Blood, Harold L.

Heffelfinger, Robert D., Lansdowne, assignor to American Viscose Corporation, Philadelphia, Pa. Strand tensioning device. 2,646,942, July 28.

Heffelfinger, Robert D., Lansdowne, assignor to American Viscose Corporation, Philadelphia, Pa. Strand tensioning device. 2,646,944, July 28.

Helfpern, Walter G., Zurich, and E. Vogt, Wallisellen, assignors to Societe Technique pour l'Industrie Nouvelle S. A. "Stin," Vevey, Switzerland. Radar system. 2,647,256, July 28.

Heins, Harold, Dorchester, assignor to Sylvania Electric Products Inc., Salem, Mass. Crystal amplifier. 2,646,609, July 28.

Heisler, Harry F., Hudson, Iowa. Gear assembly. 2,646,691, July 28.

Helmig, Willem H. T.: *See*—
Reumerman, Theodorus, and Helmig.

Hendrickson, Niels E., Laguna Beach, assignor to United States Spring & Bumper Co., Inc., Los Angeles, Calif. Highway guard. 2,646,969, July 28.

Hendrix, Joy, Kirkwood, Mo. Apparatus for folding cloth flatwork. 2,646,982, July 28.

Hennig, Charles, Freeport, assignor to Morse Boulger Destructor Company, New York, N. Y. Horizontally movable damper. 2,646,792, July 28.

Hensley, William A., Quincy, Ill., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Reclaiming rubber with reaction products of dialkylnaphthols with sulfur chloride. 2,647,089, July 28.

Herbst, John A., Pines Lake, assignor, by mesne assignments, to Bogue Electric Manufacturing Co., Paterson, N. J. Thermocouple testing system. 2,647,237, July 28.

Herlihy, William F., Haverhill, assignor to Lowell Counter Company, Lowell, Mass. Preparing vamps for shoes of the California or force-lasted type. 2,646,584, July 28.

Herrick, Roswell H., Lorain, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. All-relay selective calling system. 2,647,250, July 28.

Hesse, Richard, assignor to United Elastic Corporation, Easthampton, Mass. Elastic material. 2,646,828, July 28.

Heywood-Wakefield Company, assignee: *See*—
Sellers, Austin C.

Hill, Harold S.: *See*—
Coghill, James T., and Hill.

Hill, Marley G., assignor to Charles Ross & Son Company, Brooklyn, N. Y. Multiple roll mill with means for spacing the rolls while being rotatively driven. 2,646,935, July 28.

Hilliman, Ross H., Rosemont, assignor to The Autocar Company, Ardmore, Pa. Adjustable seat structure. 2,646,839, July 28.

Hinz, Henry E., Forest Park, and H. C. Fletcher, Woodlawn, assignors to Admiral Corporation, Chicago, Ill. Fastener device. 2,646,863, July 28.

Hirsch, Stephen G., assignor to Ocean City Mfg. Co., Philadelphia, Pa. Fishing reel construction. 2,646,939, July 28.

Hoe, R., & Co., Inc., assignee: *See*—
Wieking, William C.

Hogenbirk, Cornelius, East Orange, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermo-responsive measuring device. 2,647,235, July 28.

Hogg, John A., D. A. Lyttle, and A. H. Nathan, assignors to The Upjohn Company, Kalamazoo, Mich. Selective reduction of 3-keto group of polyketosteroids. 2,647,134, July 28.

Hogg & Mitchell Limited, assignee: *See*—
Wood, Ernest A.

Hoglan, Forest A., Glenview, Ill., assignor to International Minerals & Chemical Corporation. Production of glutamic acid. 2,647,142, July 28.

Holiday, Lloyd L. and N. M., Cheyenne, Wyo. Detecting device for fast-moving objects. 2,647,032, July 28.

Holiday, Nellie M.: *See*—
Holiday, Lloyd L. and N. M.

Holmberg, Lawrence O., Winnetka, Ill. Container carrier. 2,646,911, July 28.

Holmes, Otis M.: *See*—
Butler, Ernest L., and Holmes.

Homer, Horace H., Arlington, assignor to Sylvania Electric Products Inc., Salem, Mass. Phosphor suspension and applying. 2,647,066, July 28.

Homer, Horace H., Arlington, assignor to Sylvania Electric Products Inc., Salem, Mass. Phosphor manufacture. 2,647,086, July 28.

Hood, Lawrence D., Jefferson County, Colo. Insulating sheath with embedded electrical conductor. 2,647,160, July 28.

Horrocks, Theodore: *See*—
Mackenzie, John F., and Horrocks.

Houdry Process Corporation, assignee: *See*—
Mills, George A.
Savage, Reuben T., and Dart.

Huck, Alfred J., assignor to Knapp-Monarch Company, St. Louis, Mo. Double break switch. 2,647,177, July 28.

Huebshman, Paul J., Dearborn, assignor to Whitehead & Kales Company, River Rouge, Mich. Apparatus for motor transports. 2,647,009, July 28.

Huebshman, Paul J., Dearborn, assignor to Whitehead & Kales Company, River Rouge, Mich. Loading motor transports. 2,647,010, July 28.

Humber Limited, assignee: *See*—
Miller, Andrew C., Kamper, and Berry.

Humfeld, George P., and D. A. de Tartas, Indianapolis, Ind., assignors to Radio Corporation of America. Plastic molding compositions comprising a vinyl chloride polymer and a resinous terpenephenol reaction product. 2,647,097, July 28.

Humpage, Harold A., Bloomfield, assignor, by mesne assignments, to Federal Electric Products Company, Newark, N. J. Circuit breaker. 2,647,191, July 28.

Humphrey, Bingham J., Mount Carmel, Conn., and R. J. Reid, Canal Fulton, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Making transparent film from vinyl chloride based resins admixed with butadiene-acrylonitrile type copolymers. 2,647,101, July 28.

Hydro Power, Inc., assignee: *See*—
Zoll, Carl M.

Imber, Oscar, Silver Spring, Md. Crystal growing apparatus. 2,647,043, July 28.

Imperial Chemical Industries Limited, assignee: *See*—
Barnes, Arthur W.

Industrial Research Institute of the University of Chattanooga, assignee: *See*—
Coulliette, James H.

Ingraham, James W., and A. Barnsteiner, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Forming oven liners. 2,646,782, July 28.

Interchemical Corporation, assignee: *See*—
Opp, Carl J., and Werner.
Radi, Lino J.

International Minerals & Chemical Corporation, assignee: *See*—
Hoglan, Forest A.

International Standard Electric Corporation, assignee: *See*—
Chapman, Roger, and Trier.
Daly, Charles T.
Den Hertog, Martinus.
Lens, Georges X.
Pocock, Lyndall C.
Touraton, Emile, and Dumousseau.

Isler, William, assignee: *See*—
Newman, Albert.

Jacoby, Arthur L., deceased, Western Springs, Ill., by R. P. Jacoby, executrix, assignor to National Aluminate Corporation, Chicago, Ill. Diamine-bis-acetamides. 2,647,121, July 28.

Jacoby, George W., Jr., Wooster, Ohio. Blood lancet. 2,646,799, July 28.

Jacoby, Ruth P., executrix: *See*—
Jacoby, Arthur L.

Jaho, William L., Grand Forks, N. Dak. Shoulder shaping attachment for road working machines. 2,646,833, July 28.

James, William S., Birmingham, Mich., assignor to Fram Corporation. By-pass filter element. 2,646,885, July 28.

Jansen, Pieter C., and G. Weehuizen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Television receiver. 2,647,255, July 28.

Jeanlin, Pierre, assignor to Societe Le Teleampliphone, Paris, France. Electronic switch. 2,647,172, July 28.

Jeffrey Manufacturing Company, The, assignee: *See*—
Tolman, Samuel L.

Jelinek, Charles, Jr., Verona, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Sheet wrapper mechanism for facsimile machines. 2,647,034, July 28.

Jendrisak, Joseph E.: *See*—
Bamford, William P., Jendrisak, and White.

Jerome, Helen, assignee: *See*—
Jerome, Henry.

Jerome, Henry, Walsenburg, Colo., assignor by decree of distribution to H. Jerome. Wringer spacer. 2,646,675, July 28.

Jessee, Ralph D., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic relay. 2,647,185, July 28.

Johansson, Fredrik A., Nockeby, Stockholm, and A. Käll, Appelviken, Stockholm, Sweden. Mixing valve. 2,646,821, July 28.

Johns-Manville Corporation, assignee: *See*—
Leistensnider, George P.

Johnson, Elmer L., Pearlsburg, and C. R. Delagrange, Riplemead, Va., assignors to Celanese Corporation of America, New York, N. Y. Textile apparatus. 2,646,937, July 28.

Johnson, Emil C., Manchester, Conn., assignor to H. F. Livermore Corporation, Allston, Mass. Boss for dobby jacks. 2,646,824, July 28.

Jonas, Heinz, assignor to Farbenfabriken Bayer, Leverkusen, Germany. Production of dialkylthiophosphates. 2,647,140, July 28.

Jones & Laughlin Steel Corporation, assignee: *See*—
Buker, Charles B.

Jones, Lawrence C., University Heights, and G. H. Shirley, assignors to The Van Dorn Iron Works Company, Cleveland, Ohio. Caulking cartridge. 2,646,906, July 28.

Jones, William: *See*—
Fisher, Donald H., and Jones.





Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on shoes. 2,646,582, July 28.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Hydraulic mechanism. 2,646,755, July 28.

Joy Manufacturing Company, assignee: *See*—
Bartholomew, Jess M.
Bebinger, Charles N.
Curtis, John C.
Joy, Joseph F.

Joyce, Robert M., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Light-stabilized photopolymerization of acrylic esters. 2,647,080, July 28.

Jung, Albert H., Flushing, assignor to United American Metals Corporation, Brooklyn, N. Y. Heating and cooling backing pan. 2,646,601, July 28.

Jung, Walter: *See*—
Wagner, Adam, Bröhl, and Jung.

Just, John H., assignor, by mesne assignments, to E. Gingold, Syracuse, N. Y. Apparatus for controlling bird nuisance. 2,647,228, July 28.

Käll, Alfred: *See*—
Johansson, Fredrik A., and Käll.

Kamper, Andrew M.: *See*—
Miller, Andrew C., Kamper, and Berry.

Kane, John E., assignor to The Frank H. Lee Company, Danbury, Conn. Fur blowing and mixing. 2,646,598, July 28.

Karlson, Gunnar G.: *See*—
Geddes, Walter H., Karlson, and Werensky.

Kay, James A., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Apparatus for transferring and conveying articles. 2,646,869, July 28.

Kellogg, M. W., Company, The, assignee: *See*—
Burton, William P.

Kemp, Milton H., Michigan City, Ind., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Coating apparatus for making pressure-sensitive tape. 2,646,770, July 28.

Kennedy, Eugene P., Tulsa, Okla. Nut cracker with slidably mounted crank lever. 2,646,831, July 28.

Kennedy, Walter D., London, England. Means for feeding collapsible tubular members onto cores. 2,646,592, July 28.

Kenney, Clarence E., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Elastic fluid turbine. 2,646,811, July 28.

Kent, Donald W., Whitemarsh, Pa. Electrolytic cells of the tank type. 2,647,082, July 28.

Kepes, André, Saint-Mande, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Transmission. 2,646,696, July 28.

Kershaw, Knox, Birmingham, Ala. Ballast removing machine. 2,646,632, July 28.

King-Seeley Corporation, assignee: *See*—
Darnell, Rex. C.

Kitchen, Leland J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Terpenylalkylphenols and their preparation. 2,647,152, July 28.

Klares, John F.: *See*—
Nagy, Steve J., and Klares.

Klee, Jacob E., Webster Springs, W. Va. Window structure. 2,646,599, July 28.

Klomp, Alfred W., assignor to Process Gear and Machine Co., Detroit, Mich. Generating gears. 2,646,724, July 28.

Knapp-Monarch Company, assignee: *See*—
Huck, Alfred J.
Lauther, Max E.
Schmid, Edward C.

Knarzer, Herman C., assignor to Dille & McGuire Mfg. Co., Richmond, Ind. Three-piece tubular lawn mower handle and manufacturing same. 2,646,591, July 28.

Knobel, Max, Arlington, Mass., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa. Making ball-type writing tips. 2,646,761, July 28.

Knox, Lawrence H.: *See*—
Doering, William V., and Knox.

Kolthoff, Izaak M., Minneapolis, Minn., and A. I. Medalia, Brookhaven, N. Y., assignors to Phillips Petroleum Company. Emulsion polymerization in the presence an improved reducing composition. 2,647,109, July 28.

Kopecky, Eugene F., San Diego, Calif. Key receiver and time checking apparatus. 2,647,031, July 28.

Kraft, Charles H., Kansas City, Mo. Garment hanger. 2,646,890, July 28.

Kraft, Wheaton W., Scarsdale, assignor to The Lummus Company, New York, N. Y. Vapor liquid contact apparatus. 2,646,977, July 28.

Krause, Irving A., Jersey City, assignor to Federal Telecommunication Laboratories, Inc. Nutley, N. J. Video clipping circuit. 2,647,209, July 28.

Kredentser, Hyman S.: *See*—
Armstrong, William N. B., and Kredentser.

Kreis, Joseph D., Cleveland, Ohio. Coupling for offset shafts. 2,646,686, July 28.

Kromer, Wallace R., Cleveland Heights, Ohio. Method of and apparatus for storing, cooling, and dispensing beverages. 2,646,667, July 28.

Kubaugh, Le Roy M., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Means for sealing containers for pressure testing. 2,646,677, July 28.

Kubaugh, Le Roy M., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Track for track-laying vehicles. 2,647,023, July 28.

Kutcka, Charles, Los Angeles, Calif. Combination floor molding and electric conduit structure. 2,647,242, July 28.

Kutzler, Robert J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic steering apparatus. 2,647,233, July 28.

Kutzler, Robert J., Richfield, and D. G. Taylor, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic steering apparatus. 2,646,947, July 28.

Kwartler, Charles E., Albany, assignor to Winthrop-Stearns Inc., New York, N. Y. N-(n-tetradecyl)-N-(3,4 - methylenedioxybenzyl) - N,N dimethylammonium chloride and preparation thereof. 2,647,130, July 28.

Kwiecinski, Edmund A., assignee: *See*—
Bethke, Harvey R.

Labitska, Charles W.: *See*—
Spalding, John T., and Labitska.

Läbler, Ludvik: *See*—
Fučík, Karel, and Läbler.

Lacey, William M., Medford, Mass., assignor to Sylvania Electric Products Inc. Dry-plate rectifier. 2,647,227, July 28.

Laganis, Deno: *See*—
Meeske, Charles J., and Laganis.

Lake, Ernest T., and R. R. Hardgrove, Livingston, Mont. Adjustable peep sight for firearms. 2,646,625, July 28.

Lampert, Albert J., Walnut, assignor to Rheem Manufacturing Company, Richmond, Calif. Flashback prevention in gas burners. 2,646,789, July 28.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic element for color photography and producing multicolor pictures. 2,647,049, July 28.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic product and process for forming a white image viewable against a dark background. 2,647,055, July 28.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. One step photographic transfer process. 2,647,056, July 28.

Lang, Harry, St. Paul, Minn. Overall garment. 2,646,568, July 28.

Lange, Richard F., and M. W. Cucksey, Pontiac, Mich. Brush making machine. 2,647,018, July 28.

Lange, Robert W.: *See*—
Griffith, John F., Lange, and Fisher.

Lantz, Robert, and G. Mingasson, Paris, assignors to Compagnie Francaise des Matieres Colorantes, Saint-Denis, France. Azo dyestuff. 2,647,113, July 28.

Larson, Conrad N., San Francisco, Calif. Roll paper dispenser. 2,647,028, July 28.

Lascroux, Emile F. J., Le Soupicon, Presqu'ile de Giens, France. Ship's funnel with smoke-directing provisions. 2,646,764, July 28.

Lathe, Frank E., Ottawa, Ontario, assignor to Canadian Refractories Limited, Montreal, Quebec, Canada. Making refractory masses and batch. 2,647,062, July 28.

Latz, Anton, Koln-Hohenberg, Germany. Fastening sleeve for band strapping. 2,646,603, July 28.

Lautner, Max E., assignor to Knapp-Monarch Company, St. Louis, Mo. Control circuit for air fan heaters. 2,647,198, July 28.

Laverdisse, Edmond, assignor to Les Glaceries de la Sambre, Societe Anonyme, Auvelais, Belgium. Feeding of abrasives to glass surfacing tools. 2,646,655, July 28.

Lawrence Vane, Menlo Park, assignor to Pratt-Low Preserving Co., Santa Clara, Calif. Apparatus for loosening the pits of drupes. 2,646,830, July 28.

Lawyer's Co-Operative Publishing Company, The, assignee: *See*—
Ratcliffe, Fred A., Ryan, and Ford.

Lazar, Nathan, New York, N. Y. Combined abacus and counting rack. 2,646,631, July 28.

Le Clair, Camille C. S., Acton, London, assignor to Tecalemit Limited, Brentford, England. Liquid or oil filtration system. 2,646,886, July 28.

Lee, Frank H., Company, The, assignee: *See*—
Kane, John E.

Leftwich, Robert F., Greenwich, Conn. Sintering apparatus. 2,646,980, July 28.

Leistensnider, George P., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Molding O-ring gaskets. 2,646,595, July 28.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Wagner, Adam, Bröhl, and Jung.

Lens, Georges X., Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Switching mechanism. 2,647,166, July 28.

Lentjes, Carl G.: *See*—
Florschutz, Fritz E., and Lentjes.

Les Glaceries de la Sambre, Societe Anonyme, assignee *See*—
Laverdisse, Edmond.

Leskovec, Frank A.: *See*—
Smid, James, Smith, and Leskovec.

Letien, Peter A., Houston, Tex. Stepped edge cutting tool. 2,646,701, July 28.

Leventhal, Leon C., Ossining, N. Y. Vacuum breaker for water supply systems. 2,646,815, July 28.

Libby-Owens-Ford Glass Company, assignee: *See*— Bamford, William P., Jendrisak, and White.

Liebermann, John, assignor to Ranco, Inc., Columbus, Ohio. Control apparatus. 2,647,190, July 28.

Lighton, Lester E., Glenside, Pa., assignor to The Electric Storage Battery Company. Storage battery filling and venting structure. 2,647,159, July 28.

Lindberg, Glenn A., Cut Bank, Mont. Power-operated wrench. 2,646,966, July 28.

Lindsay, James B., Millburn, N. J., assignor to Radio Corporation of America. Apparatus for applying and settling coatings. 2,646,769, July 28.

Lindsay, Luther J., assignor of one-half to H. T. Overton, Knoxville, Tenn. Tension control device. 2,646,943, July 28.

Lippoid, Adolph J., Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Chicago, Ill. Float-controlled valve. 2,646,819, July 28.

Lisk-Savory Corporation, assignee: *See*— Brownell, Clifford E.

Litton, Charles V., Redwood City, Calif. Making metal-to-ceramic seals. 2,647,070, July 28.

Livermore, H. F., Corporation, assignee: *See*— Johnson, Emil C.

Locke, Louis P., Victor, N. Y. Rotary gas burner. 2,646,788, July 28.

Lomax, Clarence E., assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Conversation timing in telephone systems. 2,647,163, July 28.

Long, Robert S., Bound Brook, N. J., and C. A. Sears, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Coumarin derivatives. 2,647,132, July 28.

Long, Robert S., Bound Brook, N. J., and C. A. Sears, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Allyl derivatives of coumarin. 2,647,133, July 28.

Lovik, Carl H., Forest City, Iowa. Stand and holder for jacks. 2,646,957, July 28.

Lowe, Edwin C., Niagara Falls, Ontario, Canada, assignor to Norton Company, Worcester, Mass. Articles of calcium-carbon boride. 2,647,061, July 28.

Lowell Counter Company, assignee: *See*— Herlihy, William F.

Lummus Company, The, assignee: *See*— Kraft, Wheaton W.

Lundquist, Richard C., assignor to Goodman Manufacturing Company, Chicago, Ill. Articulated conveyer for mining machines. 2,646,871, July 28.

Luoma, Verner, Eveleth, Minn. Sod cutting attachment for garden tractors. 2,646,740, July 28.

Luther, William F., assignor to Dixie Mercerizing Company, Chattanooga, Tenn. Mercerization. 2,647,037, July 28.

Luxene, Inc., assignee: *See*— Galley, Andrew H.

Lyden, Frank J., Milwaukee, Wis. Multiple oiler. 2,646,856, July 28.

Lynch Corporation, assignee: *See*— Coon, Harold R., Sr., and Rapp.

Lyttle, Douglas A.: *See*— Hogg, John A., Lyttle, and Nathan.

Machlett Laboratories Incorporated, assignee: *See*— Coykendall, William E., Jr.

Mackenzie, John F., and T. Horrocks, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England. Electrical signaling system. 2,647,253, July 28.

Madan, Edward K., Maplewood, N. J. Sewing kit. 2,646,908, July 28.

Magos, John P., Wilmette, E. G. Schmidt, La Grange, and E. P. De Craene, Westchester, assignors to Crane Co., Chicago, Ill. Flanged pipe joint. 2,646,997, July 28.

Maher, George A., assignor, by mesne assignments, to G. I. McNeil, Detroit, Mich. Belt pulley. 2,646,689, July 28.

Maron, Meyer, Passaic, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Adjustable beam-trace-positioning amplifier. 2,647,174, July 28.

Marsico, Theodore W., Denison, Tex. Combination mattress and spring. 2,646,580, July 28.

Martin, Elmore L., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Photographic silver halide emulsion containing symmetrical carbocyanine dyes. 2,647,052, July 28.

Martin, Gustav J., and J. M. Beiler, Philadelphia, and S. Avakian, Oreland, and J. N. Moss, assignors to The National Drug Company, Philadelphia, Pa. 3,4-dihydrozy-4'-halogeno chalcones. 2,647,148, July 28.

Martin, Theodore L., Greenville, Ohio. Watch cleaning machine. 2,646,807, July 28.

Martin, Wilbert A., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Double-pole double-throw snap switch. 2,647,179, July 28.

Mason Box Company, The, assignee: *See*— Cinami, Armando R.

Maat, Kurt, assignor to Matth. Hohner A.-G., Trossingen, Wurtemberg, Germany. Harmonica. 2,646,712, July 28.

Mattaes, Werner: *See*— Torke, Erich, and Mattaes.

Matth. Hohner A.-G., assignee: *See*— Maat, Kurt.

Maynard, Charles E., assignor to Pro-phy-lac-tic Brush Company, Florence, Mass. Making filament briatle brushes. 2,647,019, July 28.

McCabe-Powers Auto Body Co., assignee: *See*— Smid, James, Smith, and Leskovec.

McCarty, Walter P., Oak Park, Ill., assignor to General Electric Company. Clothes-washing machine. 2,646,673, July 28.

McClung, Alfred R.: *See*— Wallace, James M., and McClung.

McColgan, John M., Los Angeles, Calif., assignor, by mesne assignments, to Stauffer Chemical Company. Making compositions for battery boxes. 2,647,090, July 28.

McColgan, John M., Los Angeles, Calif., assignor to Stauffer Chemical Company. Battery boxes. 2,647,091, July 28.

McCord, Hester E., Toccoa, Ga. Bushing remover tool. 2,646,619, July 28.

McCoy, Rawley D., Bronxville, N. Y., assignor to The Sperry Corporation. Automatic tracking system. 2,647,258, July 28.

McDonald, Louis, Inyokern, Calif. Decontamination of explosives contaminated materials. 2,647,084, July 28.

McDowell, Thomas E., assignor to The Pyle-National Company, Chicago, Ill. Twin sealed-beam type headlight with alignable and removable lamp units. 2,647,204, July 28.

McKeever, John E., Forsyth, Mont. Apparatus for extracting oil vapors from crankcases for use as a fuel. 2,646,784, July 28.

McLeod, Roy D., Detroit, assignor of two-thirds to W. Caris, Milford, Mich., and one-third to S. L. Brussel, and Detroit Trust Company, coexecutors of F. H. Brussel, deceased. Control valve. 2,646,820, July 28.

McNeil, Gordon I., assignee: *See*— Maher, George A.

Meagher, William D., Villa Park, assignor to Aircrest Manufacturing Corporation, Chicago, Ill. Drawer guide 2,647,024, July 28.

Medalia, Avrom I.: *See*— Kolthoff, Izaak M., and Medalia.

Meeske, Charles J., Ferndale, and D. Laganis, assignors to Reichhold Chemicals, Inc., Detroit, Mich. Styrene modified alkyds and producing the same. 2,647,092, July 28.

Meisel, Seymour L.: *See*— Hartough, Howard D., Dickert, and Meisel.

Meller, Reginald B., Oakland, assignor to Hemiss-Jason Company, San Francisco, Calif. Corner construction for folding boxes. 2,646,916, July 28.

Mentzer, Everett K., New Springfield, Ohio. Marble board dice game. 2,646,986, July 28.

Merrill Brothers, assignee: *See*— Gmoser, Carl H., and Gardner.

Merriman, Henry H., Jackson, Mich. Longitudinally shifted actuator rod with automatic locking action and rapid release. 2,646,694, July 28.

Meschino, Ronald G., Toronto, Ontario, assignor to A. V. Roe, Canada Limited, Ontario, Canada. Annular fuel vaporizer for gas turbine engines. 2,646,664, July 28.

Metals & Controls Corporation, assignee: *See*— Davignon, Ermand H.

Metzger, William J., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 2,646,896, July 28.

Meyers, Henry, Norwalk, Conn. Handbag. 2,646,833, July 28.

Mighton, Harold R., Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polymerizing epsilon-caprolactam. 2,647,105, July 28.

Miller, Andrew C., A. M. Kamper, and G. Berry, Coventry, assignors to Humber Limited, Stoke, Coventry, England. Motor vehicle power transmission system. 2,646,864, July 28.

Miller, Edna B., Camp Lejeune, N. C. Educational shoelace. 2,646,630, July 28.

Millhiser, Frederick R., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Soaking of rayon bucket cakes before centrifugal washing. 2,647,033, July 28.

Mills, George A., Ridley Park, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Production of hydrogen-rich gases. 2,647,042, July 28.

Milton, Robert H., La Jolla, Calif. Door controller. 2,646,590, July 28.

Mingasson, Georges: *See*— Lantz, Robert, and Mingasson.

Minneapolis-Honeywell Regulator Company, assignee: *See*— Dyer, Clarence A.
Eozier, Paul R.
Kutzler, Robert J.
Kutzler, Robert J., and Taylor.
Martin, Wilbert A.
Moore, Warren, Jr.
Schuck, Oscar H.

Minnesota Mining & Manufacturing Company, assignee: *See*— Brink, Richard E.
Peterson, Robert J.

Moeller, Bernhard V.: *See*— Anderson, Arthur W., and Moeller.

Moeller, Carl A.: *See*— Claff, Chester E., and Moeller.

Molins, Desmond W., F. F. Ruau, V. P. Harvey, and S. A. Nichols, Deptford, London, assignors to Molins Machine Company, London, England. Magnetic separator with stationary magnet. 2,646,883, July 28.

Molins Machine Company, assignee: *See*— Molins, Desmond W., Ruau, Harvey, and Nichols.

Molnar, Imre, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Space reservation system. 2,647,249, July 28.

Mongar, George, Missoula, Mont. Adjustable ironing board. 2,646,634, July 28.

Monroe Auto Equipment Company, assignee: *See*— Read, Charles E., and Whisler.

Monsanto Chemical Company, assignee: *See*— Hahn, Frank J.
Shusman, Tevis.

Moore, Warren, Jr., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,647,252, July 28.

Moorhouse, Courtney E.: *See*— Thomas, John B., and Moorhouse.

Morf, Ernest, La Chaux-de-Fonds, Switzerland. Flexible balance staff. 2,646,662, July 28.

Morgan, George P., West Asheville, N. C. Apparatus for supporting and displaying articles. 2,646,891, July 28.

Morgenstern, David, assignor to W. M. Berliner, New York, N. Y. Shoulder pad and construction thereof. 2,646,573, July 28.

Morin, Louis H., Bronx, N. Y. Safety automatic lock slider. 2,646,605, July 28.

Morse Boulger Destructor Company, assignee: *See*— Hennig, Charles.

Moser, Otto, Bern, Switzerland, assignor to Autelca A. G., Guemligen. Device in prepayment coin boxes for generating coin-released electrical impulses. 2,646,866, July 28.

Moss, Jack N.: *See*— Martin, Gustav J., Beiler, Avakian, and Moss.

Motorola, Inc., assignee: *See*— Schlesinger, Kurt.

Mueller Co., assignee: *See*— Mueller, Frank H., and Smith.

Mueller, Frank H., and J. J. Smith, assignors to Mueller Co., Decatur, Ill. Drilling machine. 2,646,699, July 28.

Mueller, Paul M., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Speed control for rotary motors. 2,646,813, July 28.

Mueller, Paul M., assignor to Niles-Bement-Pond Company, West Hartford, Conn. Speed governor for fluid operated rotary motors. 2,646,814, July 28.

Muller, Herman E., Sr., Swissvale, Pa., assignor to United States Steel Corporation. Control system for billet marking. 2,646,746, July 28.

Mungall, William: *See*— Nierenberg, Richard N., and Mungall.

Murchison, Bessie F., assignee: *See*— Murchison, Blackwell K.

Murchison, Blackwell K., assignor, by mesne assignments, to B. F. Murchison, Brooklyn, N. Y. Grinder with meshing teeth for knives, etc. 2,646,653, July 28.

Murray Corporation of America, The, assignee: *See*— Rhoden, Eugene E., and Scholts.

Nagy, Steve J., and J. F. Klares, Cleveland, Ohio. Finger grip insert for bowling balls. 2,646,985, July 28.

Nathan, Alan H.: *See*— Hogg, John A., Lyttle, and Nathan.

Nathan, Alan H., assignor to The Upjohn Company, Kalamazoo, Mich. 11-alpha-hydroxy-3,20-diketopregnanes. 2,647,135, July 28.

Nathan Manufacturing Corp., assignee: *See*— Erikson, Carl F.

National Aluminate Corporation, assignee: *See*— Jacoby, Arthur L.

National Battery Company, assignee: *See*— Rupp, John L., Dickover, Willihnganz, and Snyder.

National Blank Book Company, assignee: *See*— Schade, Frank S.

National Cash Register Company, The, assignee: *See*— Brown, George T., Jr.
Sime, Mazwell E.

National Drug Company, The, assignee: *See*— Martin, Gustav J., Beiler, Avakian, and Moss.

National Dryer Manufacturing Corporation, assignee: *See*— Clemens, George S.

National Malleable and Steel Castings Company, assignee: *See*— Metzger, William J.

National Pneumatic Co., Inc., assignee: *See*— Bassett, Cyrus W., Vander Veer, and Weigele.

National Store Fixture Co., Inc., assignee: *See*— Turoff, Nicholas L.

Nelson, Donald O., Los Angeles, and R. P. Geddes, Jr., Sherman Oaks, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Outboard transducer assembly. 2,646,950, July 28.

Nelson, Milton A., Rockford, Ill. Cleaning implement. 2,646,581, July 28.

Newman, Albert, Cleveland Heights, assignor of twenty-five per cent to W. Isler, Cleveland, Ohio. Disposable sheath for hair combs. 2,646,804, July 28.

Newman, Joseph, Philadelphia, Pa. Bullion fringe. 2,646,671, July 28.

Newton, John C., Roslyn Heights, N. Y., assignor to The Sperry Corporation. Autopilot. 2,646,946, July 28.

New York Air Brake Company, The, assignee: *See*— Pickert, Mark.

Nichols, Beverly R.: *See*— Rheingans, William J., and Nichols.

Nichols, Sydney A.: *See*— Molins, Desmond W., Ruau, Harvey, and Nichols.

Nickas, Chris, Jr., Farmington, W. Va. Vise jaw combination. 2,646,708, July 28.

Nierenberg, Richard N., and W. Mungall, Dayton, Ohio. Device for trans-illuminating transparencies. 2,646,637, July 28.

Nieset, Robert T., assignor to Bierne Associates, Inc., New Orleans, La. Toy. 2,647,222, July 28.

Niles-Bement-Pond Company, assignee: *See*— Mueller, Paul M.

Nolan, William E.: *See*— Steele, Bernard R., and Nolan.

Nordlund, Per A., Stuvsta, Sweden. Fishing float. 2,646,643, July 28.

Norfolk Paper Company, Inc., assignee: *See*— Claff, Chester E., and Moeller.

Northrop Aircraft, Inc., assignee: *See*— Williams, Charles R., and Andersen.

Norton Company, assignee: *See*— Lowe, Edwin C.

Notz, Chauncey E., Englewood, assignor to Notz-Sweney, Inc., Denver, Colo. Repairing punctures in pneumatic tires and tubes. 2,646,707, July 28.

Notz-Sweeney, Inc., assignee: *See*— Notz, Chauncey E.

Nussberger, René, and J. Pellat-Finet, Lyons, assignors to Societe Sovel Vehicules Electriques Industriels, Villeurbanne, France. Hoisting and dumping means for trucks carrying dirt. 2,646,902, July 28.

O'Brien, William R., and G. R. Scantling, Chesterfield County, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of rayon cake size before centrifugal washing. 2,647,040, July 28.

Ocean City Mfg. Co., assignee: *See*— Hirsch, Stephen G.

O-Cedar Corp'n, assignee: *See*— Wagner, Franz.

Odin Corporation, assignee: *See*— Parry, Wallace M.

Offeman, Richard E., Bellflower, Calif. Automatic weather map plotter. 2,646,732, July 28.

Ogg, Alvin W.: *See*— Wallace, James M., and Ogg.

Oldham & Son Limited, assignee: *See*— Booth, Frank.

O'Neill, Harry T., Jr., New Bedford, Mass., assignor to The Continental Elastic Corporation. Thread end release and cutting mechanism. 2,646,936, July 28.

Ontario Research Foundation, assignee: *See*— Armstrong, William N. B., and Kredentser.

Opp, Carl J., and R. E. Werner, Cincinnati, Ohio, assignors to Interchemical Corporation, New York, N. Y. Methyl methacrylate-modified oil alkyd. 2,647,093, July 28.

Opp, Carl J., and R. E. Werner, Cincinnati, Ohio, assignors to Interchemical Corporation, New York, N. Y. Alkyd resin. 2,647,095, July 28.

Orem, George W.: *See*— Brandenburg, Lester L., and Orem.

Osborne, Noel B.: *See*— Davis, Robert O., and Osborne.

Otis Elevator Company, assignee: *See*— Sahlin, Eric A.

Overbeke, John W., Cleveland, Ohio. Hydraulic fluid mechanism. 2,646,754, July 28.

Overton, Hugh T., assignee: *See*— Lindsay, Luther J.

Ovtschinnikoff, Alexandre, Villeparisis, France. Apparatus for determining external pressure and elevations. 2,646,682, July 28.

Owen, Haddon S., assignor to Dennison Manufacturing Company, Framingham, Mass. Garment tag and method of and apparatus for applying same. 2,646,635, July 28.

Owen, Willard B.: *See*— Ruby, Elmo F., and Owen.

Padevco, Inc., assignee: *See*— Young, Larry L., and Wilmotte.

Pagendarm, Edward J., San Mateo, Calif., assignor to Bemiss-Jason Company. Feeder for carton blanks. 2,646,983, July 28.

Paillard S. A., assignee: *See*— Favre, Jules.

Pailn, Abraham, New York, N. Y. Stamp layout device. 2,646,626, July 28.

Palmer, William J., Portland, Oreg. Tool for straightening sheet metal such as in vehicle bodies and the like. 2,646,706, July 28.

Papendick, Clarence A., Normandy, Mo. Cube cutting machine and cutter therefor. 2,646,832, July 28.

Parker, Charles A., assignor to Rainey Accounting Machine Company, Inc., Knoxville, Tenn. Tens transfer mechanism. 2,646,928, July 28.

Parkins, William E., Los Angeles, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Isotope separating apparatus. 2,647,213, July 28.

Parmesan, Daniel J., Houston, Tex., assignor, by mesne assignments, to Chiksan Company, Brea, Calif. Union. 2,646,996, July 28.

Parry, Wallace M., Rockford, assignor to Odin Corporation, Chicago, Ill. Article handling machine. 2,646,870, July 28.

Parsons, Lloyd V., Seattle, Wash. Chimney block. 2,646,742, July 28.

Patal, Imre, deceased, Washington, D. C.; H. R. Bishop, administrator. Treating vitreous materials. 2,647,068, July 28.

Patterson, Morehead, New York, N. Y., assignor, to American Machine & Foundry Company. Pinfall signaling mechanism. 2,646,984, July 28.

Pavelle Color Incorporated, assignee: *See*—
Seary, Eugene, and Salerno.

Pear, Charles R., Jr., College Park, assignor to The Davies Laboratories, Inc., Riverdale, Md. Cloud detecting system. 2,647,234, July 28.

Pearce, Albert F.: *See*—
Broadway, Leonard F., Barford, and Pearce.

Péguet, Georges H., and A. Guyennon, Montpellier, France. Rotary machine adapted to operate as a pump, compressor, or motor. 2,646,756, July 28.

Pellat-Finet, Jean: *See*—
Nussberger, René, and Pellat-Finet.

Penney, Gayford W., Pittsburgh, Pa., and H. A. Thomas, College Station, Tex., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Inspecting apparatus. 2,647,214, July 28.

Perfex Corporation, assignee: *See*—
Frost, Robert C.

Permaline Company, The, assignee: *See*—
Gottesman, Herman.

Perrine, William L.: *See*—
Stumbock, Max J., and Perrine.

Perry, J. Nell, San Jose, Calif. Nonsegregating conveyer chute. 2,646,865, July 28.

Perry, John A., Phoenix, Ariz. Airplane wing structure. 2,646,945, July 28.

Peterson, Arthur F., North Arlington, N. J. Awning. 2,646,600, July 28.

Peterson, Eugene W.: *See*—
Saunderson, Jason L., Caldecourt, and Peterson.

Peterson, Robert J., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Traffic warning and directing signal. 2,646,638, July 28.

Phelps, Charles G., Bremerton, Wash. Card shuffler. 2,646,988, July 28.

Philadelphia Quartz Company, assignee: *See*—
Stericker, William.

Phillips, Carleton A., Corning, and W. B. Sanford, Painted Post, N. Y. Saw sharpener. 2,646,697, July 28.

Phillips Petroleum Company, assignee: *See*—
Alleman, Carl E.
Cutforth, Howard G.
Kolthoff, Izaak M., and Medalia.
Robinson, Sam P.

Phipard, Harvey F., Jr., South Dartmouth, assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass. Driver for recessed head fasteners. 2,646,829, July 28.

Phrix-Werke, A. G., assignee: *See*—
Torke, Erich, and Matthaes.

Pickert, Mark, Watertown, N. Y., assignor to The New York Air Brake Company. Electric control for independent release portions of air brake control valves. 2,647,021, July 28.

Pickron, Hugo H., Rock Island, Ill. Vacuum and pressure indicator. 2,646,683, July 28.

Pictorial Machinery Limited, assignee: *See*—
Spriggs, John E.

Pierce, Raymond C., Chicago, Ill. Draft gear. 2,646,894, July 28.

Pirard, Roger, La Ferriere-sur-Risle, France, assignor of fifty percent to J. V. Sparks, Austin, Tex. Shock absorber, especially for automotive vehicles. 2,646,860, July 28.

Pitt, Harold M., Torrance, and W. Boggs, Redondo Beach, Calif., assignors to Stauffer Chemical Company. Manufacture of perchloromethyl mercaptan. 2,647,143, July 28.

Pocock, Lyndall C., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Compliant supports for transducer diaphragms. 2,646,853 July 28.

Poitras, Edward J., Holliston, Mass. Electrical switch contact means. 2,647,188, July 28.

Polaroid Corporation, assignee: *See*—
Fairbank, Murry N.
Land, Edwin H.

Pollansky, Alejandro, Buenos Aires, Argentina. Sunbeam receiving and reflecting device. 2,646,720, July 28.

Porter, Frederick W. B.: *See*—
Haresnape, John N., and Porter.

Poudreries Reunies de Belgique, Societe Anonyme, assignee: *See*—
Diels, Albert F. M.

Powell, Arthur C.: *See*—
Stout, George P., Powell, and Taylor.

Power Jets (Research and Development) Limited, assignee: *See*—
Butcher, Edgar M.

Pratt-Low Preserving Co., assignee: *See*—
Lawrence, Vane.

Presan Corporation, assignee: *See*—
Bowen, Oliver G.

Presstite Engineering Company, The, assignee: *See*—
Ferguson, William C.

Prizer, Beatrice C., executrix: *See*—
Prizer, Eugene L.

Prizer, Eugene L., deceased, Escondido, assignor of twenty-five per cent to J. A. Prizer, Fullerton, twenty-five per cent to M. Ferguson, Compton, ten per cent to E. D. Boal, Bonita, and ten per cent to M. Burnham, La Jolla, Calif.; B. C. Prizer, executrix. Apparatus for introducing soluble agents into liquids. 2,646,973, July 28.

Prizer, J. A., assignee: *See*
Prizer, Eugene L.

Process Gear and Machine Co., assignee: *See*—
Klomp, Alfred W.

Pro-phy-lac-tic Brush Company, assignee: *See*—
Maynard, Charles E.

Publicker Industries Inc., assignee: *See*—
Beesch, Samuel C., and Fraser.

Pugin, André, assignor to J. R. Geigy A. G., Basel, Switzerland. Halogenated phthalocyanine disulfonic acids. 2,647,126, July 28.

Pure Oil Company, The, assignee: *See*—
Askevold, Robert J.
Bell, Richmond T.

Pye Limited, assignee: *See*—
Fisher, Donald H., and Jones.

Pyle-National Company, The, assignee: *See*—
McDowell, Thomas E.

Qualitrol Corporation, assignee: *See*—
Ratcliffe, Fred A., Ryan, and Ford.

Quinn, Bert A., St. Paul, Minn. Lubricating means for pneumatic door checks, closers, and the like. 2,646,589, July 28.

Radi, Lino J., Somerville, N. J., assignor to Interchemical Corporation, New York, N. Y. Polyvinyl chloride composition containing a Utah coal resin. 2,647,096, July 28.

Radiart Corporation, assignee: *See*—
Tregoning, William C., Sr.

Radio Corporation of America, assignee: *See*—
Blaney, Arthur C., and Singer.
Brown, Barremore B.
Burton, J. Kent.
Duncan, Robert K.
Humfeld, George P., and de Tartas.
Lindsay, James B.
Rettinger, Michael.
Singer, Kurt.

Rafferty, James F.: *See*—
Tinnerman, George A., and Rafferty.

Rainey Accounting Machine Company, Inc., assignee: *See*—
Parker, Charles A.

Rambo, Sheldon I., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tuning stub. 2,647,241, July 28.

Ranco Inc., assignee: *See*—
Liebermann, John.

Rankin, Earl R.: *See*—
Couts, Tony R., and Rankin.

Rankin, Homer C.: *See*—
Cox, Thomas O., Rankin, and Trott.

Rankin, Vera M., executrix: *See*—
Couts, Tony R., and Rankin.

Ransom, David H., Pines Lake, and F. Benjamin, Fair Lawn, assignors to Bogue Electric Manufacturing Co., Paterson, N. J. Power controlled switch for electric motors. 2,647,232, July 28.

Rapp, Earl J.: *See*—
Coon, Harold R., Sr., and Rapp.

Raskin, Walter, Brooklyn, N. Y. Heat exchange unit. 2,646,971, July 28.

Ratcliffe, Fred A., Rochester, N. Y., and Ryan, Greece, and G. E. Ford, Brighton, N. Y.; said Ford assignor to Qualitrol Corporation, East Rochester, N. Y., said Ratcliffe and said Ryan assignors to The Lawyer's Co-Operative Publishing Company, Rochester, N. Y. Expansible post binder. 2,646,800, July 28.

Read, Charles E., and R. H. Whisler, Jr., assignors to Monroe Auto Equipment Company, Monroe, Mich. Piston assembly for shock absorbers. 2,646,859, July 28.

Read, George E., Santa Monica, Calif. Apparatus for making refrigerated comestibles. 2,646,974, July 28.

Redmond, John A., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Controlled induction heating with scanning. 2,647,200, July 28.

Reek, Donald C., Fort Wayne, Ind., assignor to General Electric Company. Instantly reversible motor. 2,647,230, July 28.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Resilient gascock stop. 2,646,961, July 28.

Reeves Instrument Corporation, assignee: *See*—
Dewey, Chalmers B., and Zatsky.





Reichhold Chemicals, Inc., assignee: *See*—
Meeske, Charles J., and Laganis.

Reid, Robert J.: *See*—
Humphrey, Bingham J., and Reid.
Smith, William M., Jr., and Reid.

Reider, Samuel, North Arlington, N. J. Combination fluid container and closure having a screw driver projection. 2,646,704, July 28.

Republic Steel Corporation, assignee: *See*—
Guerry, William R.

Research Corporation, assignee: *See*—
Calandra, Joseph C., and Adams.
Doering, William V., and Knox.

Research Engineering & Manufacturing, Inc., assignee: *See*—
Phipard, Harvey F., Jr.

Rettinger, Michael, Encino, Calif., assignor to Radio Corporation of America. Magnetic transducer construction. 2,647,167, July 28.

Reumerman, Theodorus, Zandvoort, and W. H. T. Helmig, Leiden, Netherlands. Counter for numbering and measuring devices. 2,646,747, July 28.

Reumerman, Theodorus, Zandvoort, and W. H. T. Helmig, Leiden, Netherlands. Device for determining check symbols. 2,646,923, July 28.

Reveno, Robert, Philadelphia, Pa. Apparatus for and method of filling capsules. 2,646,912, July 28.

Rexroad, James O., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric switch operating device. 2,646,693, July 28.

Reygagne, Léonce M., Decazeville, assignor to Societe Anonyme de Commentry-Fourchambault et Decazeville, Paris, France. Progressive fuel combustion fluid heating apparatus and control means therefor. 2,646,790, July 28.

Rheem Manufacturing Company, assignee: *See*—
Lampert, Albert J.

Rheingans, William J., and B. R. Nichols, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine governing system. 2,646,812, July 28.

Rhodes, Eugene E., Dearborn, and H. G. Scholtz, Wyandotte, assignors to The Murray Corporation of America, Detroit, Mich. Structure and method for cleaning welding rods. 2,646,649, July 28.

Richardson, Warren B., Reno, Nev. Explosive composition. 2,647,047, July 28.

Richmond, Warren, Brooklyn, N. Y. Wind-driven novelty device. 2,646,644, July 28.

Rinehart, Alan: *See*—
Rinehart, Ernestine, and A.

Rinehart, Alan G., New York, N. Y. Novel ornament and clip. 2,646,668, July 28.

Rinehart, Ernestine and A., New York, N. Y. Shirt. 2,646,570, July 28.

Ritter, Edwin E., Chalfonte, assignor to Hugh H. Eby, Inc., Philadelphia, Pa. Socket-type contact. 2,647,248, July 28.

Rivas, Carlos E., Hollywood, assignor to M. U. Serrurier, Los Angeles, Calif. Magnetic sound record editing machine. 2,647,168, July 28.

Robertson, Frank H., Carisbrooke, Isle-of-Wight, assignor to Saunders-Roe Limited, Osborne, England. Cylindrical object ejecting apparatus. 2,646,786, July 28.

Robertson, Jackson P., Columbus, Miss. Multiple lift type disk harrow. 2,646,857, July 28.

Robinson, John W., Barrington, and M. Dohrolet, Pawtucket, R. I., assignors to Fram Corporation. Filter. 2,646,887, July 28.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of hydrogen from hydrocarbons. 2,647,041, July 28.

Rockwell, Edward A., Shaker Heights, Ohio. Fluid pressure intensifying means. 2,646,665, July 28.

Roe, A. V., Canada Limited, assignee: *See*—
Meschino, Ronald G.

Rohr, Elwood A., Montezuma, Ind. Vine cutter. 2,646,739, July 28.

Rolls-Royce Limited, assignee: *See*—
Haworth, Lionel.

Rose Brothers (Gainsborough) Limited, assignee: *See*—
Kay, James A.

Rosenfeld, Milton G., Ladue, assignor to Western Garment Company, St. Louis, Mo. Apparel garment and making the same. 2,646,569, July 28.

Ross, Charles, & Son Company, assignee: *See*—
Hill, Marley G.

Roto-Matic Screen Printer, Ltd., assignee: *See*—
Thomas, John B., and Moorhouse.

Rottig, Walter, Oberhausen-Sterkrade-Nord, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holton, Germany. Catalyst for the hydrogenation of carbon monoxide. 2,647,138, July 28.

Rowe Manufacturing Co., Inc., assignee: *See*—
Gabrielsen, Christian.

Ruau, Felix F.: *See*—
Molins, Desmond W., Ruau, Harvey, and Nichlos.

Ruby, Elmo F., and W. B. Owen, Cicero, Ill. Universal gauging and scribing means. 2,646,624, July 28.

Ruddy, Arlo W.: *See*—
Archer, Sydney, and Ruddy.

Ruhrchemie Aktiengesellschaft, assignee: *See*—
Rottig, Walter.

Rummel, Roman, Dusseldorf-Benrath, Germany. Gasification of combustible materials. 2,647,045, July 28.

Rupp, John L., and M. W. Dickover, Williamsville, and E. Willihnganz and A. H. Snyder, Lancaster, N. Y., assignors to National Battery Company, St. Paul, Minn. Storage battery. 2,647,154, July 28.

Rusch, Edward E., Cicero, Ill. Removable tire cleat. 2,646,834, July 28.

Russell, Cecil R., Tulsa, Okla. Support for garbage cans and the like. 2,646,955, July 28.

Ryan, Norbert A.: *See*—
Ratcliffe, Fred A., Ryan, and Ford.

Sauty, Theodore N., Providence, R. I. Fuel injecting device for internal-combustion engines. 2,646,976, July 28.

Sahlin, Eric A., Harrington Park, N. J., assignor to Otis Elevator Company, New York, N. Y. Safety apparatus for elevators. 2,646,858, July 28.

Salditt, Ferdinand, Neuwied (Rhine), Germany, assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Apparatus for making adhesive tape. 2,646,771, July 28.

Salditt, Ferdinand, Neuwied (Rhine), Germany, assignor to The Scholl Mfg. Co. Inc., Chicago, Ill. Polyvinyl ether adhesive substance for plaster coatings and making the same. 2,647,100, July 28.

Salerno, Anthony: *See*—
Seary, Eugene, and Salerno.

Sandor, Bela T., Ayr, Scotland. Hammer mill and blower arrangement. 2,646,934, July 28.

Sanford, William B.: *See*—
Phillips, Carleton A., and Sanford.

Sauer, Robert O., Schenectady, N. Y., assignor to General Electric Company. Preparation of methylchlorosilanes. 2,647,136, July 28.

Saulnier, Raymond, Paris, France. Two-panel slidable and jettisonable roof for the cockpits of aircraft. 2,646,949, July 28.

Saunders-Roe Limited, assignee: *See*—
Robertson, Frank H.

Saunderson, Jason L., V. J. Caldecourt, and E. W. Peterson, assignors to The Dow Chemical Company, Midland, Mich. Electrical circuit for measuring the ratio of two potentials. 2,647,236, July 28.

Savage Arms Corporation, assignee: *See*—
Dunham, George W.

Savage, Reuben T., Ridley Park, and J. C. Dart, Moylan, assignors to Houdry Process Corporation, Philadelphia, Pa. Solids baffle for catalyst apparatus. 2,647,044, July 28.

Scantling, George R.: *See*—
O'Brien, William R., and Scantling.

Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Making laminated case construction. 2,647,071, July 28.

Schapiro, Abraham, Kentfield, Calif. Beverage. 2,647,058, July 28.

Schelwer, Albert T., Erie, Pa. Valved pipe coupling. 2,646,994, July 28.

Schelwer, Albert T., Erie, Pa. Coupling device for testing coils and the like. 2,646,998, July 28.

Schicht, Clarence J., Yakima, Wash. Liquid cleaning device. 2,646,888, July 28.

Schild, Otto, La Chaux de Fonds, Switzerland. Self-winding clock. 2,646,660, July 28.

Schillinger, Willy A., assignor to Zero Hour Bomb Company, Tulsa, Okla. Well bridge. 2,646,845, July 28.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. Double triode clamping circuit for direct current reinsertion. 2,647,161, July 28.

Schmid, Edward C., assignor to Knapp-Monarch Company, St. Louis, Mo. Fin type radiator. 2,646,972, July 28.

Schmidt, Edward G.: *See*—
Magos, John P., Schmidt, and De Craene.

Scholl Mfg. Co., Inc., The, assignee: *See*—
Kemp, Milton H.
Salditt, Ferdinand.

Scholl, William M., Chicago, Ill. Corn cushion. 2,646,795, July 28.

Scholl, William M., Chicago, Ill. Self-bonding tubular bandage. 2,646,796, July 28.

Scholl, William M., Chicago, Ill. Stretchable stocking or bandage. 2,646,797, July 28.

Scholl, William M., Chicago, Ill. Package for tapelike material. 2,646,877, July 28

Scholl, William M., Chicago, Ill. Apparatus for and method of making adhesive tape. 2,647,065, July 28.

Scholtz, Harry G.: *See*—
Rhodes, Eugene E., and Scholtz.

Scholz, Walter, Stuttgart, Germany. Ball pen. 2,646,776, July 28.

Schuck, Oscar H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Computer for estimated time of arrival. 2,646,924, July 28.

Schwer, John, Pittsburgh, Pa. Clip board for holding writing paper. 2,646,993, July 28.

Sears, Carleton A.: *See*—
Long, Robert S., and Sears.

Seary, Eugene, Rochester, and A. Salerno, Corona, assignors to Pavelle Color Incorporated, New York, N. Y. Protecting color pictures exposed to high humidities against fading and staining. 2,647,057, July 28.

Sédille, Marcel H. L., assignor to Societe Rateau (Societe Anonyme), and R. Anxionnaz, Paris, France. Semiopen circuit gas-turbine engine. 2,646,663, July 28.

Seismograph Service Corporation, assignee: *See*—
Hawkins, James E., and Finn.

Selgin, Paul J., Washington, D. C. Device for the identification of documents or printed matter. 2,646,717, July 28.

Sellers, Austin C., Menominee, Mich., assignor to Heywood-Wakefield Company, Gardner, Mass. Aisle standard for theater chairs. 2,646,841, July 28.

Seltzer, Robert E., assignor to The American Baler Company, Bellevue, Ohio. Baling machine. 2,646,745, July 28.

Senne, Edgar P., Rockville Centre, N. Y. Filter replacement mechanism for vacuum cleaners. 2,646,855, July 28.

Serrurier, Mark C., assignee: *See*—
Rivas, Carlos E.

Shaler, Saul, Jackson Heights, N. Y. Spirit level and making the same. 2,646,628, July 28.

Shampaine, Hyman R., Clayton, Mo. Sectional top operating table with adjustment mechanism. 2,647,026, July 28.

Shatkin, Aaron, assignee: *See*—
Shatkin, Sidney.

Shatkin, Sidney, assignor to A. Shatkin, Long Branch, N. J. Hollow ware construction. 2,646,954, July 28.

Sheaffer, W. A., Pen Co., assignee: *See*—
Knobel, Max.

Shearer, Howard E., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Liquid pick-up and transfer means. 2,646,612, July 28.

Sheer, Charles, New York, N. Y., assignor to United States of America as represented by the United States Atomic Energy Commission. Ultra-wide band amplifier tube. 2,647,175, July 28.

Sheffield Instrument Company, assignee: *See*—
Cox, Thomas O., Rankin, and Trott.

Shell Development Company, assignee: *See*—
Toth, Stephen.
Walton, Richard G.

Shirley, Granville H.: *See*—
Jones, Lawrence C., and Shirley.

Shivers, Joseph C., Jr., West Chester, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Linear polyester composition. 2,647,104, July 28.

Shroff, Chiroze D.: *See*—
Frisch, Kurt C., and Shroff.

Shusman, Tevis, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polymerization of styrene. 2,647,111, July 28.

Siegel, David T., assignee: *See*—
Berkelhamer, Louis H.

Sime, Maxwell E., Bayswater, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Calculating machine. 2,646,922, July 28.

Simons, Lowell W., assignor of one-half to W. N. Deatherage, Long Beach, Calif. Compressor for vehicle suspension springs. 2,646,618, July 28.

Singer, Arnold J., Newark, assignor to Amm-I-Dent, Inc., Jersey City, N. J. Ammoniated dentifrice containing anhydrous dicalcium phosphate. 2,647,073, July 28.

Singer, Kurt: *See*—
Blaney, Arthur C., and Singer.

Singer, Kurt, North Hollywood, Calif., assignor to Radio Corporation of America. Sound re-recording method and system. 2,647,170, July 28.

Singer Manufacturing Company, The, assignee: *See*—
Hauf, Edward M.

Sisco, Carl W., Toledo, Ohio, assignor to Erie Mining Company, Hibbing, Minn. Ore treating furnace. 2,646,900, July 28.

Sjöblom, Eric A., assignor to E. G. Backman, Koping, Sweden. Sponge type mop with two-part hinged backing plate. 2,646,587, July 28.

Slater, Willard F., San Marino, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Pump with inlet strainer. 2,646,752, July 28.

Sloan, Donald D., Newton, assignor to Dennison Manufacturing Company, Framingham, Mass. Applying garment tags. 2,646,567, July 28.

Slough, Frank M., Lakewood, assignor to The General Industries Company, Elyria, Ohio. Plural speed friction drive transmission for phonograph turntables. 2,646,688, July 28.

Sloyan, Jerome J., New Rochelle, N. Y. Support for movably mounting mechanisms such as motors. 2,646,951, July 28.

Smeby, Lynne C., Washington, D. C. Radio antenna. 2,647,211, July 28.

Smid, James, and M. Smith, Cleveland, and F. A. Leskovec, Geneva, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo. Tower vehicle. 2,647,022, July 28.

Smith, George E. P., Jr., assignor to The Firestone Tire & Rubber Co., Akron, Ohio. Oxidative condensation of amines and dithio acids. 2,647,144, July 28.

Smith, George W., St. Louis, Mo. Carton and closure therefor. 2,646,917, July 28.

Smith, H. B., Machine Co., assignee: *See*—
Willitts, Henry E.

Smith, Harold E., Lykens, Pa. Light reflector. 2,647,203, July 28.

Smith, John J.: *See*—
Mueller, Frank H., and Smith.

Smith, Merton: *See*—
Smid, James, Smith, and Leskovec.

Smith, Walter K., Pottstown, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Joining plastic elements. 2,647,072, July 28.

Smith, William M., Jr., Cuyahoga Falls, and R. J. Reid, Canal Fulton, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Linear polyester plasticizers. 2,647,098, July 28.

Smith, William M., Jr., Cuyahoga Falls, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Linear polyester plasticizers. 2,647,099, July 28.

Snow Manufacturing Company, assignee: *See*—
Goldberg, Herman.

Snyder, Almond H.: *See*—
Rupp, John L., Dickover, Willihnganz, and Snyder.

Societe Anonyme de Commentry-Fourchambault et Decazeville, assignee: *See*—
Reygagne, Léonce M.

Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Arbelt, Pierre.
George, Henri.
Kepes, André.

Societe Anonyme dite "Centre d'Etudes M. B. A." (Mecanique, Balistique, Armement), assignee: *See*—
Gourdon, Robert.

Societe Le Teleampliphone, assignee: *See*—
Jeanlin, Pierre.

Societe Pinguely, Ville-Gozet, assignee: *See*—
Garnier, Paul.

Societe Rateau (Societe Anonyme), assignee: *See*—
Sédille, Marcel H. L.

Societe Sovel Vehicules Electriques Industriels, assignee: *See*—
Nussberger, René, and Pellat-Finet.

Societe Technique pour l'Industrie Nouvelle S. A., "Stlo," assignee: *See*—
Heilpern, Walter G., and Vogt.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Godsey, Jack M.
Hartough, Howard D., Dickert, and Meisel.

Sorg, Harold E., Redwood City, H. H. Eaves, Palo Alto, and D. F. Drieschman, Los Altos, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Ceramic electron tube. 2,647,218, July 28.

Spalding, John T., Collinsville, Ill., and C. W. Labiteka, Overland, Mo. Closure for drinking receptacles. 2,646,670, July 28.

Sparks, George C., Chadds Ford, Pa. Mailable display package. 2,646,876, July 28.

Sparks, James V., assignee: *See*—
Pirard, Roger.

Specialties, Inc., assignee: *See*—
Bruck, George G.

Spell, Arley A., Gainesville, Fla. Filter-aid dispenser. 2,646,674, July 28.

Spence, John A.: *See*—
Condit, Paul C., and Spence.

Sperry Corporation, The, assignee: *See*—
Dean, Walter.
McCoy, Rawley D.
Newton, John C.

Spofa, Spojene farmaceuticke zavody, narodni podnik, assignee: *See*—
Fučik Karel, and Läbler.

Sprague Electric Company, assignee: *See*—
Burnham, John.

Spriggs, John E., assignor to Pictorial Machinery Limited, London, England. Clamping device. 2,646,719, July 28.

Staley, Austin L., Fox Chapel, assignor to Universal Lubricating Systems, Inc., Oakmont, Pa. Making lubricating fittings. 2,646,014, July 28.

Standing, Marshall B., and J. F. Chittum, Whittier, assignors to California Research Corporation, San Francisco, Calif. Drilling fluid filter loss tester. 2,646,678, July 28.

Stanley Works, The, assignee: *See*—
Volz, Frederick A.

State Mfg. Co., assignee: *See*—
Danclart, Theodore T.

Stauffer Chemical Company, assignee: *See*—
Bashour, Joseph T.
McColgan, John M.
Pitt, Harold M., and Boggs.

Stearns Manufacturing Company, assignee: *See*—
Davis, Robert O., and Osborne.

Steele, Bernard R., and W. E. Nolan, Houston, Tex., Device for indicating conditions in well bores. 2,646,680, July 28.

Steingruber, George, deceased, Atlanta, Ga.; M. B. Steingruber, executrix. Window sash holder. 2,647,005, July 28.

Steingruber, Minnie B., executrix: *See*—
Steingruber, George.

Stericker, William, Drexel Hill, assignor to Philadelphia Quartz Company, Philadelphia, Pa. Manufacture of silicate-coated papers. 2,647,069, July 28.

Sterling Drug Inc., assignee: *See*—
Archer, Sydney, and Ruddy.





Stewart, Leonard E., Midland, and M. J. Winters, Odessa, Tex., assignors, by mesne assignments, to Tri-State Oil Tool Company, Inc., Shreveport, La. Retrieving arrangement for well drilling operations. 2,647,008, July 28.

Stieglitz, Henry M., assignor to Frank Adam Electric Company, St. Louis, Mo. Device for attaching fronts to electrical cabinets. 2,647,004, July 28.

Stone & Webster Engineering Corporation, assignee: *See*—
Chambers, John M.

Storch, Max H., Belle Harbor, N. Y. Manufacture of sterling silver handles with gold design headings. 2,646,698, July 28.

Stout, George P., Baltimore, A. C. Powell, Ruxton, and F. J. Taylor, Jr., Hanover, Md. Apparatus for visual inspection of bottled goods. 2,646,715, July 28.

Stover, Egbert C., assignor to Flakice Corporation, Brooklyn, N. Y. Ice storage bin having rakes for moving the surface ice. 2,646,899, July 28.

Straussler, Nicholas, Piccadilly, London, assignor to Swallow Coachbuilding Company (1935) Limited, Walsall, Stafford, England. Sidecar for motorcycles. 2,646,992, July 28.

Strehlow, Walter F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Belt pulley attachment. 2,646,849, July 28.

Strnad, James J., Redford, Ohio. Reamer. 2,646,702, July 28.

Stromberg-Carlson Company, assignee: *See*—
Trousdale, Robert B.

Strong, John D., Baltimore, Md. Method, machine, and tool for lapping dividing heads and gears. 2,646,650, July 28.

Stuart, Jasper C., deceased (L. O. Stuart, administratrix), and G. D. Darnell, Hoisington, Kans. Winch-operated hoist truck. 2,647,013, July 28.

Stuart, Lee O., administratrix: *See*—
Stuart, Jasper C., and Darnell.

Studebaker Corporation, The, assignee: *See*—
Handy, Ralph L.

Stumbock, Max J., South Orange, and W. L. Perrine, Maplewood, assignors to Baker & Co., Inc., Newark, N. J. Bimetallic element. 2,646,615, July 28.

Summerhell, William E., Washington, D. C. Threadless retainer. 2,646,713, July 28.

Superior Hand Brake Co., assignee: *See*—
Templeman, John P.

Suter, Henry, Wellesley, Mass. Controllable power source for alternating current blower motors. 2,646,931, July 28.

Suttles, Omar, Los Angeles, Calif. Hot-air circulating attachment for cook stoves. 2,646,787, July 28.

Svelusson, Louis, Baltimore, Md. Boat construction and control of sails. 2,646,763, July 28.

Swallow Coachbuilding Company (1935) Limited, assignee: *See*—
Straussler, Nicholas.

Swartout, Harold E., Davenport, Iowa. Soil conditioning machine. 2,646,736, July 28.

Swiech, Edward and V. A., Seattle, Wash. Self-locking and unlocking pivot joint for leg braces. 2,646,793, July 28.

Swiech, Venans A.: *See*—
Swiech, Edward and V. A.

Sylvania Electric Products Inc., assignee: *See*—
Fortney, David F.
Heins, Harold.
Homer, Horace H.
Lacey, William M.

Tapernoux, Paul, Lynbrook, N. Y. Lock for clotheslines. 2,646,604, July 28.

Taylor, Daniel G.: *See*—
Kutzler, Robert J., and Taylor.

Taylor, Francis J., Jr.: *See*—
Stout, George P., Powell, and Taylor.

Tecalemit Limited, assignee: *See*—
Le Clair, Camille C., and Sprankling.

Tellegen, Bernardus D. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Passive four terminal network for gyrating a current into a voltage. 2,647,239, July 28.

Templeman, John P., assignor to Superior Hand Brake Co., Chicago, Ill. Railway car hand brake. 2,646,695, July 28.

Terry, Mildred B., assignor to Clikpleet, Inc., New York, N. Y. Pleated skirt. 2,646,571, July 28.

Testi, Nicholas, assignor to The Gillette Company, Boston, Mass. Blade dispensing magazine. 2,646,874, July 28.

Thayer, Arthur G., Rossford, Ohio. Collapsible cot. 2,646,577, July 28.

Thomas, Charles A., and J. R. Eck, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of War. Preparing composite propellants. 2,646,396, July 28.

Thomas, Harold A.: *See*—
Penney, Gaylord W., and Thomas.

Thomas, Howard O., South Gate, Calif. Grease deflector. 2,646,857, July 28.

Thomas, John B., Watertown, Conn., and C. E. Moorhouse, West Englewood, N. J., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y. Stencil printing apparatus. 2,646,749, July 28.

Thompson, Roland J., Washington, D. C. Brazed joint with backing ring. 2,646,995, July 28.

Thorpe, William H., assignor to Walker Manufacturing Company, Philadelphia, Pa. Repair head for heddles. 2,646,825, July 28.

Tillyer, Edgar D., and J. R. Eves, assignors to American Optical Company, Southbridge, Mass. Thickness gauge for lenses. 2,646,627, July 28.

Tinnerman, George A., and J. F. Rafferty, assignors to Tinnerman Products, Inc., Cleveland, Ohio. Fastener strip. 2,646,714, July 28.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A., and Rafferty.

Titus Manufacturing Corporation, assignee: *See*—
Castle, Vernon D.

Todd, William, Neptune City, N. J., assignor to the United States of America as represented by the Secretary of War. Radio-frequency transmission line switching system. 2,647,240, July 28.

Tolman, Samuel L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Apparatus for removing grit from sewage. 2,647,085, July 28.

Torke, Erich, Hamburg, and W. Matthaes, Krefeld (Rhine), assignors to Phrix-Werke, A. G., Hamburg, Germany. Making readily filterable viscose. 2,647,114, July 28.

Toth, Stephen, Flushing, N. Y., assignor to Shell Development Company, San Francisco, Calif. Animated display device. 2,646,639, July 28.

Touraton, Emile, Paris, and C. Dumousseau, Pierrefitte, France, assignors to International Standard Electric Corporation, New York, N. Y. Catcher circuits for velocity modulation tubes. 2,647,219, July 28.

Townsend, Jack D., Lowry Bay, New Zealand. Machine for blending wool. 2,646,597, July 28.

Travilla, James C., Jr., Swarthmore, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Drawbar carrier. 2,646,895, July 28.

Tregoning, William C., Sr., Shaker Heights, assignor, by mesne assignments, to Radiart Corporation, Cleveland, Ohio. Switching means. 2,647,180, July 28.

Trier, Robert H.: *See*—
Chapman, Rogher, and Trier.

Tri-State Oil Tool Company, Inc., assignee: *See*—
Stewart, Leonard E., and Winters.

Tronnier, Albrecht W., Gottingen, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany. Gauss type photographic objective having two lens systems on opposite sides of a diaphragm. 2,646,721, July 28.

Trott, Samuel A.: *See*—
Cox, Thomas O., Rankin, and Trott.

Trousdale, Robert B., Rochester, N. Y., assignor to Stromberg-Carlson Company. Electronic switching device. 2,647,206, July 28.

Turoff, Nicholas L., assignor to National Store Fixture Co., Inc., Baltimore, Md. Assembly machine. 2,646,617, July 28.

Tusing, Roy S.: *See*—
Fulton, Wilbur C., and Tusing.

Union Oil Company of California, assignee: *See*—
Carpenter, Clayton A., and Crog.

United Aircraft Products, Inc., assignee: *See*—
Geddes, Walter H., Karlson, and Werensky.

United American Metals Corporation, assignee: *See*—
Jung, Albert H.

United Elastic Corporation, assignee: *See*—
Hesse, Richard.

United Shoe Machinery Corporation, assignee: *See*—
Butler, Ernest L., and Holmes.
Campbell, Charles R., Jr.
Eastman, Fred C.
Jorgensen, Bernhardt.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Bevis, Murray.
Parkins, William E.
Sheer, Charles.

United States Gypsum Company, assignee: *See*—
Downey, Richard M.

United States Spring & Bumper Co., Inc., assignee: *See*—
Hendrickson, Niels E.

United States Steel Corporation, assignee: *See*—
Muller, Herman E., Sr.

Universal Lubricating Systems, Inc., assignee: *See*—
Staley, Austin L.

Universal Match Corporation, assignee: *See*—
Ellern, Herbert.

Upjohn Company, The, assignee: *See*—
Hogg, John A., Lyttle, and Nathan.
Nathan, Alan H.

Van Alstyne, Richard F., Davenport, Iowa. Chimney cap construction. 2,646,743, July 28.

Usher, Ulysses G., Springfield, Ill. Wire fence stretcher. 2,646,963, July 28.

Vander Veer, John H.: *See*—
Bassett, Cyrus W., Vander Veer, and Welgele.

Van Dorn Iron Works Company, The, assignee: *See*—
Jones, Lawrence C., and Shirley.

Van Hise, Lester E., Los Angeles, Calif. Dishrack. 2,646,809, July 28.

Vierling, John A., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. 2,646,775, July 28.

Vig, Bennie T., Morris, and A. H. Fischer, Alexandria, Minn. Road machine. 2,646,730, July 28.

Vincent, Walter R., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflatable panel assembly for storage bins. 2,646,905, July 28.

Vinton, William H., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Photographic emulsions containing symmetrical carbocyanine dyes. 2,647,053, July 28.

Vinton, William H., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Cyanine dyes. 2,647,115, July 28.

Vinton, William H., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Cyanine dye salts. 2,647,116, July 28.

Vinton, William H., Parlin, and J. C. Firestine, South River, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic emulsions containing sensitizing dyes. 2,647,051, July 28.

Vinton, William H., Parlin, and J. C. Firestine, South River, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic emulsions containing sensitizing dyes. 2,647,054, July 28.

Vlasic, Matthew J., Youngstown, Ohio. Ice cube machine. 2,646,666, July 28.

Vogt, Ernst: *See*—
Hellpern, Walter G., and Vogt.

Voigtlander & Sohn Aktiengesellschaft, assignee: *See*—
Tronnier, Albrecht W.

Volz, Frederick A., assignor to The Stanley Works, New Britain, Conn. Collable rule with a detachable connection. 2,646,940, July 28.

Von Aeach, Otto, Fontainemelon, assignor to Fabrique d'Horlogerie de Fontainemelon S. A., Fontainemelon, Canton of Neuchatel, Switzerland. Self-winding timepiece. 2,646,661, July 28.

Wagner, Adam, A. Bröhl, and W. Jung, Wetzlar (Lahn), Germany, assignors to Ernst Leitz, G. m. b. H. Photoflash synchronizing mechanism for focal plane shutter cameras. 2,646,734, July 28.

Wagner, Franz, assignor to O-Cedar Corp'n, Chicago, Ill. Resilient mophead structure and handle mounting. 2,646,588, July 28.

Wagner, George P., Mount Vernon, N. Y., assignor to The Engineering Development Company, Incorporated, Dallas, Tex. Fluid motor for driving rotary tools. 2,646,962, July 28.

Wahl, Eugene A., Garden City, N. Y., and W. Boehl, Union, assignors to P. Ballantine & Sons, Newark, N. J. Carton filling machine. 2,646,656, July 28.

Waldrich, Oskar, Werthenbach, Kreis Siegen, Germany. Planing machine. 2,646,727, July 28.

Waldvogel, Hans, Zurich, Switzerland. Mixing concrete by gravitational vibration. 2,646,975, July 28.

Walker, Brooks, Piedmont, Calif. Tire mounting under hood accessible through door opening. 2,647,011, July 28.

Walker, Brooks, Piedmont, Calif. Automotive vehicle luggage compartment and spare wheel carrier. 2,647,012, July 28.

Walker, George B., Portarlington, Victoria, Australia. Baffle type muffler having a plurality of helical passages. 2,646,854, July 28.

Walker Manufacturing Company, assignee: *See*—
Thorpe, William H.

Wallace, James M., East McKeesport, and A. W. Ogg, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,647,183, July 28.

Wallace, James M., East McKeesport, Pa., and A. R. McClung, Smithers, W. Va., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Time-delayed circuit breaker. 2,647,184, July 28.

Wallach, Arthur, Cleveland Heights, Ohio. Record storage cabinet. 2,647,027, July 28.

Walton, Richard G., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Automatic temperature indicating system. 2,646,681, July 28.

War, United States of America as represented by the Secretary of, assignee: *See*—
Thomas, Charles A., and Eck.
Todd, William.

Waters, David J., and D. L. Wilson, Coventry, assignors to Courtaulds Limited, London, England. Production of polythioureas. 2,647,108, July 28.

Way, Glenn W., Delaware, Ohio. Door latching and operating mechanism. 2,647,003, July 28.

Weatherford, Theodore, East St. Louis, Ill. Hoist. 2,646,893, July 28.

Weaving, John H., Moseley, Birmingham, K. J. Dangerfield, Selly Oak, Birmingham, and T. K. Garrett, Rubery, near Birmingham, assignors to The Austin Motor Company Limited, Northfield, Birmingham, England. Motor road vehicle torsion resistant chassis. 2,646,991, July 28.

Webb, Cecil E., Norwood, Ohio, assignor to M. S. Bowne, Clearfield, Ky., as trustee. Fluid operated control system. 2,646,778, July 28.

Webb, Christopher F., Uxbridge, assignor to Bell Punch Company Limited, London, England. Interlocking mechanism for calculating machines. 2,646,927, July 28.

Weber, Jean, South Orange, N. J. Weighing scale. 2,646,979, July 28.

Weehuizen, George: *See*—
Jansen, Pieter C., and Weehuizen.

Weigele, Albert E.: *See*—
Bassett, Cyrus W., Vander Veer, and Weigele.

Weir, Robert H.: *See*—
Cavanaugh, Robert M., Flack, and Weir.

Weisberger, Arthur A., assignor to American Steel Foundries, Chicago, Ill. Welded brake beam. 2,646,861, July 28.

Welsh, Matilda D., La Due, Mo. Retainer for children's seats. 2,646,838, July 28.

Wenzelberger, Elwood P., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Dehydration of pineapple juice. 2,647,059, July 28.

Werensky, Matthew: *See*—
Geddes, Walter H., Karlson, and Werensky.

Werner, Raymond E.: *See*—
Opp, Carl J., and Werner.

Western Union Telegraph Company, The, assignee: *See*—
Jelinek, Charles, Jr.

Western Garment Company, assignee: *See*—
Rosenfeld, Milton G.

Westinghouse Electric Corporation, assignee: *See*—
Eames, William F.
Eggleston, Robert W.
Florschutz, Fritz E., and Lentjes.
Fulton, Wilbur C., and Tusing.
Hogenbirk, Cornelius.
Ingraham, James W., and Barnsteiner.
Jessee, Ralph D.
Penney, Gaylord W., and Thomas.
Rambo, Sheldon I.
Redmond, John A.
Rexroad, James O.
Wallace, James M., and McClung.
Wallace, James M., and Ogg.
Wharff, Edward M., Jr.
Willis, Hilary B., and Dupler.

Wharff, Edward M., Jr., Ellicott City, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Induction heating equipment. 2,647,199, July 28.

Whisler, Ralph H., Jr.: *See*—
Read, Charles E., and Whisler.

White, Gerald: *See*—
Bamford, William P., Jendrisak, and White.

Whitehead & Kales Company, assignee: *See*—
Huebshman, Paul J.

Whittington, Paul E., Arlington, Va., assignor to the United States of America as represented by the Secretary of the Army. Washing apparatus. 2,646,585, July 28.

Wieking, William C., Woodhaven, assignor to R. Hoe & Co., Inc., New York, N. Y. Web roll renewing. 2,646,938, July 28.

Wiershing, Roy, Carbon Cliff, Ill. Tractor transport box. 2,646,910, July 28.

Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Polarizing ceramic transducers. 2,646,610, July 28.

Williams, Arthur L.: *See*—
Coates, Clyde E., and Williams.

Williams, Charles R., Hawthorne, and C. S. Andersen, Bell, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Poly-anode flip-flop tube. 2,647,221, July 28.

Williams, Paul D., Palo Alto, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Electron emitter for electron tubes. 2,647,067, July 28.

Williamson, Thurmond A., Dallas, Tex., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 5-nitro-2-thlophenecarboxamides. 2,647,120, July 28.

Willihnganz, Eugene: *See*—
Rupp, John L., Dickover, Willihnganz, and Snyder.

Willis, Hilary Bryan and P. E. Dupler, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Permanently plastic insulating composition. 2,647,063, July 28.

Willitts, Henry E., assignor to H. B. Smith Machine Co., Smithville, N. J. Shaft vibrator. 2,646,685, July 28.

Wilmotte, Raymond M.: *See*—
Young, Larry L., and Wilmotte.

Wilson, Bert A., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Hydraulic roll grinder. 2,646,651, July 28.

Wilson, Donald L.: *See*—
Waters, David J., and Wilson.

Wilson, Paul E.: *See*—
Adams, James S., and Wilson.

Winterburn, George A., Putnam, Conn. Apparatus for maintaining looms out of vibration-reinforcing phase. 2,646,823, July 28.

Winters, Marvin J.: *See*—
Stewart, Leonard E., and Winters.

Winthrop-Stearns Inc., assignee: *See*—
Kwartler, Charles E.

Wirtz Company, assignee: *See*—
Wirtz, Robert W.

Wirtz, Robert W., assignor to Wirtz Company, Peoria, Ill. Photocomposing apparatus. 2,646,731, July 28.

Wiseman, Park A., Muncie, Ind., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. 2,3-difluorobutadiene preparation and polymers thereof. 2,647,110, July 28.





Wood, Ernest A., assignor to Hogg & Mitchell Limited, Manchester, England. Curving cellulose collar blanks by differential shrinking with chemical shrinking agents. 2,647,036, July 28.

Vayner, Sylvan, Norfolk, Va. Ratchet wrench. 2,646,711, July 28.

Yenne, Allen W., Wooster, Ohio. Paintbrush container having cleaning fluid therein. 2,646,808, July 28.

Young, Arthur M., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Automatic helicopter rotor stabilizer. 2,646,848, July 28.

Young, Larry L., Pasadena, Calif., and R. M. Wilmotte, assignors to Padevco, Inc., Washington, D. C. Multiple-decade differential counter. 2,646,926, July 28.

Zarur, Jorge S., Monterrey, Mexico. Fountain pen. 2,646,777, July 28.

Zatsky, Norman C.: *See*—
Dewey, Chalmers H., and Zatsky.

Zero Hour Bomb Company, assignee: *See*—
Schillinger, Willy A.

Zijp, Pieter: *See*—
Boelens, Willem W., and Zijp.

Zoll, Carl M., assignor to Hydro Power, Inc., New Orleans, La. Rotary fluid motor or pump having axially sliding vanes. 2,646,753, July 28.

Zum Bruennen, Frederick R., Monroe, Wis. Baby poser. 2,646,735, July 28.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 28TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Obtaining dry chlorine gas from a gaseous mixture comprising elemental chlorine as a principal component thereof. C. L. Dunning. Re. 23,690, July 28.

Rubber traction member, Nonskid. D. E. Crooker. Re. 23,689, July 28.

Transmission control, Automotive. G. T. Randol. Re. 23,691, July 28.

# LIST OF PLANT INVENTIONS

Fuschia plant. H. M. Tiret. 1,206, July 28.

Poinsettia plant. P. Ecke. 1,207, July 28.

# LIST OF DESIGN INVENTIONS

Adding machine. G. W. Walker. 170,102, July 28.
Airplane. A. M. Lippisch. 170,090, July 28.
Ash tray. E. C. Blanko. 170,074, July 28.
Ash tray or similar article. S. J. Budlane and R. Dusek. 170,078, July 28.
Bag. R. M. Codish. 170,080, July 28.
Box, Fare. M. L. Grant. 170,085, July 28.
Box for cylindrical articles. F. C. Harper. 170,087, July 28.
Bracket for toilet tissue holders. P. F. Simpson. 170,097, July 28.
Chair, Rocker. R. A. Beaudette. 170,073, July 28.
Cover, Box. W. C. P. Zabel and P. Young. 170,104, July 28.
Cowling for motorcycle engines. W. E. Brown. 170,077, July 28.
Desk, Devotional. E. A. Brenner. 170,076, July 28.
Fence tester, Electric. R. M. Wilson. 170,103, July 28.
Game board. E. H. Burckes. 170,079, July 28.
Lamp base, Electric. D. Borowitz. 170,075, July 28.
Light bar and camera mount, Combined. H. L. Seiden. 170,096, July 28.
Lighting fixture. G. E. Glatthar and A. W. Matteson. 170,084, July 28.
Ottoman and back rest unit, Convertible. F. Torsak. 170,100, July 28.
Panel for a laundry appliance or the like. W. W. Hoyle. 170,089, July 28.
Rack, Magazine. K. N. Swanson. 170,098, July 28.
Shoulder rest, Telephone. S. E. Harmon. 170,086, July 28.
Sink and cabinet unit, Combination. E. W. Schmitt. 170,094, July 28.
Sofa and couch, Combination. M. J. Hoffman. 170,088, July 28.
Stocking, Lady's. J. K. Voehringer, Jr. 170,101, July 28.
Tilt-table, Portable. A. Zampini. 170,105, July 28.
Tooth brush and casing therefor, Combination. M. Schotland. 170,095, July 28.
Toy cap pistol or similar article. F. J. Maywald. 170,091, July 28.
Toy, Figure. R. Gelardin. 170,081–3, July 28.
Trailer coach. M. C. Poole. 170,093, July 28.
Tray for a wrapped fruit container. J. E. Murphy and M. Schnall. 170,092, July 28.
Tumbler or similar article. F. Taylor. 170,099, July 28.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 28TH DAY OF JULY, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abacus and counting rack, Combined. N. Lazar. 2,646,631, July 28.
Acid resisting microporous material for storage battery separators, Making. F. Booth. 2,647,158, July 28.
Actuator rod with automatic locking action and rapid release, Longitudinally shifted. H. H. Merriman. 2,646,694, July 28.
Acylated imidazolines and preparing the same. L. O. Gunderson. 2,647,125, July 28.
Adjustable ironing board. G. Mongar. 2,646,634, July 28.
Adjustable lifting clamp. C. H. Gmoser and E. M. Gardner. 2,647,007, July 28.
Age resisting nonstaining rubber composition and producing same. J. C. Ambelang. 2,647,102, July 28.
Air cooled brake. A. Y. Dodge. 2,646,862, July 28.
Aircraft undercarriage. R. W. Brown. 2,646,948, July 28.
Airplane wing structure. J. A. Perry. 2,646,945, July 28.
Aisle standard for theater chairs. A. C. Sellers. 2,646,841, July 28.
Alarm reset mechanism, Automatic. B. O. Bower. 2,646,650, July 28.
Alcohol distillation process. J. M. Chambers. 2,647,078, July 28.
Alkoxypentadienoate polymer compositions. V. A. Engelhardt. 2,647,106, July 28.
Alkyd resin. C. J. Opp and R. E. Werner. 2,647,095, July 28.
All-relay selective calling system. R. H. Herrick. 2,647,250, July 28.
Allyl derivatives of coumarin. R. S. Long and C. A. Sears. 2,647,133, July 28.
Amplifier, Adjustable beam-trace-positioning. M. Maron. 2,647,174, July 28.
Amplifier, Crystal. H. Heins. 2,646,609, July 28.
Amplifier with automatic gain control, Electric. C. T. Daly. 2,647,176, July 28.
Analyzing shape and bending stresses in structural elements, Method and apparatus for. O. G. Bowen. 2,646,716, July 28.
Antenna, Radio. L. C. Smeby. 2,647,211, July 28.
Antenna system. C. B. H. Feldman. 2,647,212, July 28.
Apparatus for and method of filling capsules. R. Reveno. 2,646,012, July 28.
Apparatus for and method of making adhesive tape. W. M. Scholl. 2,647,065, July 28.
Apparatus for applying and settling coatings. J. B. Lindsay. 2,646,769, July 28.
Apparatus for breaking contact resistance in a marker-controlled selector. R. B. Buchner. 2,647,165, July 28.
Apparatus for controlling bird nuisance. J. H. Just. 2,647,228, July 28.
Apparatus for controlling flame propagation in internal-combustion engines. B. C. Fisher. 2,646,782, July 28.
Apparatus for conveying dust, fly ash, and the like. J. H. Hampton. 2,647,020, July 28.
Apparatus for determining external pressure and elevations. A. Ovtschinnikoff. 2,646,682, July 28.
Apparatus for effecting pin point lamination of plastic liners to carton board. H. Gottesman. 2,646,835, July 28.
Apparatus for extracting oil vapors from crankcases for use as fuel. J. E. McKeever. 2,646,784, July 28.
Apparatus for folding cloth flatwork. J. Hendrix. 2,646,982, July 28.
Apparatus for forming settled coatings. J. K. Burton. 2,646,773, July 28.
Apparatus for heating oil wells. C. A. Carpenter and R. S. Crog. 2,647,196, July 28.
Apparatus for introducing soluble agents into liquids. E. L. Prizer. 2,646,973, July 28.
Apparatus for loosening the pits of drupes. V. Lawrence. 2,646,830, July 28.
Apparatus for maintaining looms out of vibration-reinforcing phase. G. A. Winterburn. 2,646,823, July 28.
Apparatus for making adhesive tape. F. Salditt. 2,646,771, July 28.
Apparatus for making refrigerated comestibles. G. E. Read. 2,646,974, July 28.
Apparatus for motor transports. P. J. Huebahman. 2,647,009, July 28.
Apparatus for oiling fabrics prior to reduction to fiber. H. J. Fairfield. 2,646,774, July 28.
Apparatus for producing tubular members. C. E. Coates and A. L. Williams. 2,647,193, July 28.
Apparatus for removing grit from sewage. S. L. Tolman. 2,647,085, July 28.
Apparatus for supporting and displaying articles. G. P. Morgan. 2,646,891, July 28.
Apparatus for transferring and conveying articles. J. A. Kay. 2,646,869, July 28.
Apparatus for treating wood pulp. J. T. Coghill and H. S. Hill. 2,646,728, July 28.
Apparatus for trimming and notching signatures. R. E. Fogg. 2,646,726, July 28.
Apparatus for visual inspection of bottled goods. G. P. Stout, A. C. Powell, and F. J. Taylor, Jr. 2,646,715, July 28.
Applying garment tags. D. D. Sloan. 2,646,567, July 28.
Article handling machine. W. M. Parry. 2,646,870, July 28.
Article sorting device. C. F. Anderson. 2,646,805, July 28.
Articles of calcium-carbon boride. E. C. Lowe. 2,647,061, July 28.
Assembling electric circuit components, Means and method for. G. G. Bruck. 2,647,224, July 28.
Assembly machine. N. L. Turoff. 2,646,617, July 28.
Automatic tracking system. R. D. McCoy. 2,647,258, July 28.
Autopilot. J. C. Newton. 2,646,946, July 28.
Awning. A. F. Peterson. 2,646,600, July 28.
Azo dyestuff. B. Lantz and G. Mingasson. 2,647,113, July 28.
Baby poser. F. R. ZumBrunnen. 2,646,735, July 28.
Backflow prevention device. D. G. Griswold. 2,646,816, July 28.
Balance staff, Flexible. E. Morf. 2,646,662, July 28.
Baling machine. R. E. Seltzer. 2,646,745, July 28.
Ball throwing device. M. Goldman. 2,646,785, July 28.
Ballast removing machine. K. Kershaw. 2,646,632, July 28.
Ball-type writing tips, Making. M. Knobel. 2,646,761, July 28.
Bandage, Self-bonding tubular. W. M. Scholl. 2,646,796, July 28.
Battery boxes. J. M. McColgan. 2,647,091, July 28.
Battery, Electrical storage. F. Booth. 2,647,157, July 28.
Battery filling and venting structure, Storage. L. E. Lighton. 2,647,159, July 28.
Battery service kit. R. B. Edelmann. 2,646,873, July 28.
Battery, Storage. J. L. Rupp, M. W. Dickover, E. Willihnganz, and A. H. Snyder. 2,647,154, July 28.
Bearing for weeder rods. L. O. Fundingsland. 2,646,737, July 28.
Bed clothing support. C. S. Evans. 2,646,578, July 28.
Bedding supporting apron. H. I. Bows. 2,646,579, July 28.
Belt pulley. G. A. Maher. 2,646,689, July 28.
Belt pulley attachment. W. F. Strehlow. 2,646,849, July 28.
Bending and tempering glass, Process and apparatus for. W. P. Bamford, J. E. Jendrisak, and G. White. 2,646,647, July 28.
Beverage. A. Schapiro. 2,647,058, July 28.
Bimetallic element. M. J. Stumbock and W. L. Perrine. 2,646,615, July 28.
Bin having rakes for moving the surface ice, Ice storage. E. C. Stover. 2,646,899, July 28.
Biologically active coumarine and product thereof, Method of manufacture of. K. Fučík and L. Láhler. 2,647,131, July 28.
Bis-(substituted tetrahydro-1,3-oxazino)-methanes, Preparing. H. D. Hartough, J. J. Dickert, Jr., and S. L. Meisel. 2,647,118, July 28.
Block: *See*—
Chimney block.
Blood lancet. G. W. Jacoby, Jr. 2,646,799, July 28.
Board: *See*—
Adjustable ironing board.
Boat construction and control of sails. L. Sveinsson. 2,646,763, July 28.
Boss for dobby jacks. E. C. Johnson. 2,646,824, July 28.
Bottle carrier. H. W. Forrer. 2,646,918, July 28.

Box: *See*—
Folding box. Tractor transport box.
Brake: *See*—
Air cooled brake. Railway car hand brake.
Brake beam, Welded. A. A. Welsberger. 2,646,861, July 28.
Brake lining clamp. H. B. Barrett. 2,646,836, July 28.
Brazed joint with backing ring. R. J. Thompson. 2,646,995, July 28.
Brush making machine. R. F. Lange and M. W. Cucksey. 2,647,018, July 28.
Bullion fringe. J. Newman. 2,646,671, July 28.
Burner: *See*—
Rotary gas burner.
Burner and secondary air supply means, Gas. H. E. Handley. 2,646,842, July 28.
Bushing remover tool. H. E. McCord. 2,646,619, July 28.
Cabinet: *See*—
Loud-speaker cabinet. Record storage cabinet.
Calcium fluorophosphate phosphor containing aluminum, Improved. D. F. Fortney. 2,647,087, July 28.
Calculating machine. M. E. Sime. 2,646,922, July 28.
Calibration of automatic circuit breakers. T. M. Cole. 2,647,187, July 28.
Camera, Motion picture. J. Favre. 2,646,718, July 28.
Canopy construction. T. T. Danciart. 2,646,810, July 28.
Car coupler. W. J. Metzger. 2,646,896, July 28.
Carburetor choke control, Automatic. L. D. Boyce. 2,646,933, July 28.
Card shuffler. C. G. Phelps. 2,646,988, July 28.
Carrier: *See*—
Bottle carrier. Drawbar carrier.
Container carrier.
Carton and closure therefor. G. W. Smith. 2,646,917, July 28.
Carton filling machine. E. A. Wahl and W. Boehl. 2,646,856, July 28.
Catalyst for the hydrogenation of carbon monoxide. W. Rottig. 2,647,138, July 28.
Catalytic cracking of petroleum hydrocarbons with a clay treated catalyst. J. N. Haresnape and F. W. B. Porter. 2,647,675–6, July 28.
Caulking cartridge. L. C. Jones and G. H. Shirley. 2,646,906, July 28.
Ceramic electron tube. H. E. Sorg, H. H. Eaves, and D. F. Drieschman. 2,647,218, July 28.
Change device for electrical coin registers. C. Gabrielsen. 2,646,806, July 28.
Chimney block. L. V. Parsons. 2,646,742, July 28.
Chimney cap construction. R. F. van Alstyne. 2,646,743, July 28.
Chuck and method of chucking. M. A. Donohoe. 2,646,723, July 28.
Circuit: *See*—
Rectifier balancing circuit. Video clipping circuit.
Circuit-arrangement, Electric. - F. de Jager. 2,647,208, July 28.
Circuit-arrangement for frequency transformation of high-frequency oscillations. W. W. Boelens and P. Zijp. 2,647,205, July 28.
Circuit breaker. T. M. Cole. 2,647,186, July 28.
Circuit breaker. H. A. Humpage. 2,647,191, July 28.
Circuit breaker for vehicles, Delayed action. T. R. Couts and E. R. Rankin. 2,647,181, July 28.
Circuit breaker mechanism. F. E. Florschutz and C. G. Lentjes. 2,647,182, July 28.
Circuit breaker, Time-delayed. J. M. Wallace and A. R. McClung. 2,647,184, July 28.
Circuit for air fan heaters, Control. M. E. Lautner. 2,647,198, July 28.
Circuit for direct current reinsertion, Double triode clamping. K. Schlesinger. 2,647,161, July 28.
Circuit for measuring the ratio of two potentials, Electrical. J. L. Saunderson, V. J. Caldecourt, and E. W. Peterson. 2,647,236, July 28.
Circuit interrupter. J. M. Wallace and A. W. Ogg. 2,647,183, July 28.
Circuits for velocity modulation tubes Catcher. E. Touraton and C. Dumousseau. 2,647,219, July 28.
Circulating attachment for cook stoves, Hot-air. O. Suttles. 2,646,787, July 28.
Clamp: *See*—
Adjustable lifting clamp. Brake lining clamp.
Clamping device. J. E. Spriggs. 2,646,719, July 28.
Cleaning device, Liquid. C. J. Schlicht. 2,646,888, July 28.
Cleaning device, Swimming pool. A. Dulak. 2,646,889, July 28.
Cleaning implement. M. A. Nelson. 2,646,581, July 28.
Cleaning machine, Watch. T. L. Martin. 2,646,807, July 28.
Clip board for holding writing paper. J. Schwer. 2,646,993, July 28.
Clock, Self-winding. O. Schild. 2,646,660, July 28.
Closure for drinking receptacles. J. T. Spalding and C. W. Labitska. 2,646,870, July 28.
Clothes-washing machine. W. P. McCarty. 2,646,673, July 28.
Cloud detecting system. C. B. Pear, Jr. 2,647,234, July 28.
Coating apparatus for making pressure-sensitive tape. M. H. Kemp. 2,646,770, July 28.
Compliant supports for transducer diaphragms. L. C. Pocock. 2,646,853, July 28.
Composition for stiffening paper match splints. H. Ellern. 2,647,048, July 28.
Compositions for battery boxes, Making. J. M. McColgan. 2,647,090, July 28.
Compressor control system. J. M. Bartholomew. 2,646,919, July 28.
Compressor for vehicle suspension springs. L. W. Simons. 2,646,618, July 28.
Computer for estimated time of arrival. O. H. Schuck. 2,646,924, July 28.
Connector: *See*—
Readily attachable electrical connector.
Connector for metal-enclosed switchgears, Quick detachable. W. C. Fulton and R. S. Tusing. 2,647,247, July 28.
Container: *See*—
Display container.
Container and closure having a screw driver projection, Combination fluid. S. Reider. 2,646,704, July 28.
Container carrier. L. O. Holmberg. 2,646,911, July 28.
Control apparatus. J. Liebermann. 2,647,190, July 28.
Control apparatus. W. Moore, Jr. 2,647,252, July 28.
Control for aircraft gas-turbine power plants having variable-pitch airscrews. L. Haworth. 2,646,847, July 28.
Control system. I. B. Cooper, Jr. 2,647,229, July 28.
Control system for billet marking. H. E. Muller, Sr. 2,646,746, July 28.
Control unit for steam generators. C. F. Erikson. 2,646,751, July 28.
Control valve. R. D. McLeod. 2,646,820, July 28.
Controlled induction heating with scanning. J. A. Redmond. 2,647,200, July 28.
Conversation timing in telephone systems. C. E. Lomax. 2,647,163, July 28.
Conveyer chute, Nonsegregating. J. N. Perry. 2,646,865, July 28.
Conveyer for mining machines, Articulated. R. C. Lundquist. 2,646,871, July 28.
Conveyer strip, Reinforced flexible. C. N. Bebinger. 2,646,867, July 28.
Conveyer, Trolley. L. T. Daigle. 2,646,872, July 28.
Corn cushion. W. M. Scholl. 2,646,795, July 28.
Corner construction for folding boxes. R. B. Meller. 2,646,916, July 28.
Cot, Collapsible. A. G. Thayer. 2,646,577, July 28.
Coumarin derivatives. R. S. Long and C. A. Sears. 2,647,132, July 28.
Counter for numbering and measuring devices. T. Reumerman and W. H. T. Helmig. 2,646,747, July 28.
Coupling: *See*—
Valved pipe coupling.
Coupling device for testing coils and the like. A. T. Scheiwer. 2,646,998, July 28.
Coupling for offset shafts. J. D. Kreis. 2,646,686, July 28.
Cover for baby carriage contents, Protective. J. M. Adler. 2,646,843, July 28.
Crane cab. R. F. Dehn. 2,646,892, July 28.
Crib construction, Collapsible. H. Abrams. 2,646,576, July 28.
Crystal cap and holder. C. W. Davis. 2,647,210, July 28.
Crystal growing apparatus. O. Imber. 2,647,043, July 28.
Cube cutting machine and cutter therefor. C. A. Papendick. 2,646,832, July 28.
Cultivator. T. J. Denning. 2,646,738, July 28.
Curving cellulose collar blanks by differential shrinking with chemical shrinking agents. E. A. Wood. 2,647,036, July 28.
Cutter: *See*—
Gear cutter. Vine cutter.
Cyanine dye salts. W. H. Vinton. 2,647,116, July 28.
Cyanine dyes. W. H. Vinton. 2,647,115, July 28.
Damper, Horizontally movable. C. Hennig. 2,646,792, July 28.
Decontamination of explosives contaminated materials. L. McDonald. 2,647,084, July 28.
Dehydration of pineapple juice. E. P. Wenzelberger. 2,647,059, July 28.
Dental matrix apparatus. D. R. Christie and M. M. Rottemiller. 2,646,622, July 28.
Dentifrice containing anhydrous dicalcium phosphate, Ammoniated. A. J. Singer. 2,647,073, July 28.
Destructive distillation. C. E. Alleman. 2,647,077, July 28.
Detecting device for fast-moving objects. L. L. and N. M. Holliday. 2,647,032, July 28.
Device for attaching fronts to electrical cabinets. H. M. Stieglitz. 2,647,004, July 28.
Device for bend testing sheets. C. B. Baker. 2,646,679, July 28.
Device for determining check symbols. T. Reumerman and W. H. T. Helmig. 2,646,923, July 28.
Device for disposing of ejected cartridge cases. F. C. Eastman. 2,646,722, July 28.
Device for dressing coated abrasive belts. R. E. Brink. 2,646,654, July 28.
Device for handling granular material. M. C. Addicks. 2,646,965, July 28.
Device for indicating conditions in well bores. B. R. Steele and W. E. Nolan. 2,646,680, July 28.





Device for separating oil from water. J. S. Adams and P. E. Wilson. 2,646,921, July 28.
Device for the identification of documents or printed matter. P. J. Selgin. 2,646,717, July 28.
Device for trans-illuminating transparencies. R. N. Nierenberg and W. Mungall. 2,646,637, July 28.
Device in prepayment coin boxes for generating coin-released electrical impulses. O. Moser. 2,646,866, July 28.
Dialkylthiophosphates, Production of. H. Jonas. 2,647,140, July 28.
Diamine-bis-acetamides. A. L. Jacoby. 2,647,121, July 28.
Diprimary diamines, Preparation of. P. Arthur, Jr. 2,647,146, July 28.
Direct feed automatically proportioning of chlorine gas, Means for. R. B. Everson. 2,647,083, July 28.
Direct positive sound recording. A. C. Blaney and K. Singer. 2,467,169, July 28.
Dishrack. L. E. Van Ilise. 2,646,809, July 28.
Disk harrow, Multiple lift type. J. P. Robertson. 2,646,657, July 28.
Dispenser: *See*—
Filter-aid dispenser. Roll paper dispenser.
Dispenser cathode. B. B. Brown. 2,647,216, July 28.
Dispensing article, Glue. S. B. Carstensen. 2,646,870, July 28.
Dispensing magazine, Blade. N. Testi. 2,646,874, July 28.
Display container. E. Feder. 2,646,875, July 28.
Display device, Animated. S. Toth. 2,646,639, July 28.
Display device, Transparency. J. W. Gandee. 2,646,636, July 28.
Display package, Mailable. G. C. Sparks. 2,646,876, July 28.
Door controller. R. H. Milton. 2,646,590, July 28.
Door operator having automatic means for manual operation, Automatic. C. W. Bassett, J. H. Vander Veer, and A. E. Welgele. 2,646,981, July 28.
Double break switch. A. J. Huck. 2,647,177, July 28.
Double-pole double-throw snap switch. W. A. Martin. 2,647,179, July 28.
Draft gear. R. C. Pierce. 2,646,894, July 28.
Drawbar carrier. J. C. Travilla, Jr. 2,646,895, July 28.
Drawer guide. W. D. Meagher. 2,647,024, July 28.
Dress form. E. and J. D. Clawsey. 2,646,907, July 28.
Drier: *See*—
Forced air drier.
Drilling apparatus, Mobile. J. C. Curtis. 2,646,968, July 28.
Drilling fluid filter loss tester. M. B. Standing and J. F. Chittum. 2,646,678, July 28.
Drilling machine. F. H. Mueller and J. J. Smith. 2,646,690, July 28.
Driver for recessed head fasteners. H. F. Phipard, Jr. 2,646,829, July 28.
Dry-plate rectifier. W. M. Lacey. 2,647,227, July 28.
Duplicating engraving or milling machine, Three-dimensional. F. Brynildsrud. 2,646,725, July 28.
Dyeing of textile materials using alkylamine alginate thickeners. W. J. Cramer, Jr., and H. W. Fritz, Jr. 2,647,035, July 28.
Elastic fluid turbine. C. E. Kenney. 2,646,811, July 28.
Elastic material. R. Hesse. 2,646,828, July 28.
Electric control for independent release portions of air brake control valves. M. Pickert. 2,647,021, July 28.
Electric discharge lamp. T. E. Foulke. 2,647,217, July 28.
Electrical element. L. H. Berkelhamer. 2,647,192, July 28.
Electrical integrator. M. Bevis. 2,646,925, July 28.
Electrolytic cell or group of cells, Primary. C. A. Dyer. 2,647,155, July 28.
Electrolytic cells of the tank type. D. W. Kent. 2,647,082, July 28.
Electromagnetic relay. R. D. Jessee. 2,647,185, July 28.
Electron emitter for electron tubes. P. D. Williams. 2,647,067, July 28.
Electron tube structure for the production of annular beams of electrons. L. F. Broadway, N. C. Barford, and A. F. Pearce. 2,647,220, July 28.
Electronic switch. P. Jeanlin. 2,647,172, July 28.
11-alpha-hydroxy-3,20-diketopregnanes. A. H. Nathan. 2,647,135, July 28.
Ellipsograph. J. C. Coats. 2,646,623, July 28.
Emulsion polymerization in the presence of an improved reducing composition. I. M. Kolthoff and A. I. Medalia. 2,647,109, July 28.
Engine: *See*—
Semiopen circuit gas-turbine engine.
Escape unit. A. Andrews. 2,646,964, July 28.
Ethers and making the same. J. T. Bashour. 2,647,129, July 28.
Expansible post binder. F. A. Ratcliffe, N. A. Ryan, and G. E. Ford. 2,646,800, July 28.
Explosive composition. W. B. Richardson. 2,647,047, July 28.
Extrusion apparatus and method. C. Field. 2,646,594, July 28.
Fastener device. H. E. Hinz and H. C. Fletcher. 2,646,883, July 28.
Fastener strip. G. A. Tinnerman and J. F. Rafferty. 2,646,714, July 28.
Fastening sleeve for band strapping. A. Latx. 2,646,603, July 28.
Feedback system, Multiple. C. A. E. Beurtheret. 2,647,173, July 28.
Feeder for carton blanks. E. J. Pagendarm. 2,646,983, July 28.
Feeding collapsible tubular members onto cores, Means for. W. D. Kennedy. 2,646,592, July 28.
Feeding of abrasives to glass surfacing tools. E. Laverdisse. 2,646,655, July 28.
Fiberizing molten material, Method and apparatus for. R. M. Downey. 2,646,593, July 28.
Figure formed cycle. S. F. Fowler. 2,646,990, July 28.
Filament bristle brushes, Making. C. E. Maynard. 2,647,019, July 28.
Filing unit. C. R. Chamberlin. 2,646,861, July 28.
Filling machine with endless belt conveyers for fibrous materials. M. and R. J. Golderg. 2,646,913, July 28.
Filling stop motion for narrow ware looms. A. Cederlund. 2,646,827, July 28.
Filter. J. W. Robinson and M. Dobrolet. 2,646,887, July 28.
Filter-aid dispenser. A. A. Spell. 2,646,674, July 28.
Filter element, By-pass. W. S. James. 2,646,885, July 28.
Filter replacement mechanism for vacuum cleaners. E. P. Senne. 2,646,855, July 28.
Filtration system, Liquid or oil. C. C. S. Le Clair. 2,646,886, July 28.
Finger splint, Adjustable surgical. A. D. Baer. 2,646,794, July 28.
Fish lure. R. B. Dunham. 2,646,642, July 28.
Fishing float. P. A. Nordlund. 2,646,643, July 28.
Fishing rod. K. E. Andersson. 2,647,001, July 28.
Fishing rod handle. O. C. George. 2,646,641, July 28.
5-nitro-2-thiophenecarboxamides. T. A. Williamson. 2,647,120, July 28.
Flanged pipe joint. J. P. Magos, E. G. Schmidt, and E. P. De Craene. 2,646,997, July 28.
Flashback prevention in gas burners. A. J. Lampert. 2,646,789, July 28.
Flashlight and emergency light, Combined. W. Brunnhoelzl. 2,647,254, July 28.
Float-controlled valve. A. J. Lippold. 2,646,819, July 28.
Floor molding and electric conduit structure, Combination. C. Kutcka. 2,647,242, July 28.
Flotation machine. H. Frost, Jr. 2,646,882, July 28.
Flow apron for threshers. A. Dion. 2,646,802, July 28.
Fluid operated control system. C. E. Webb. 2,646,778, July 28.
Fluid pressure intensifying means. E. A. Rockwell. 2,646,665, July 28.
Fluid seal. U. M. W. Barske. 2,646,999, July 28.
Folder for blindstitch sewing machines. J. Galkin. 2,646,759, July 28.
Folding box. A. Bockmann. 2,646,015, July 28.
Forced air drier. G. S. Clemens. 2,646,629, July 28.
Forming oven liners. J. W. Ingraham and A. Barnsteiner. 2,646,762, July 28.
Fountain attachment for combs. B. Di Zazzo. 2,646,803, July 28.
Friction drive transmission for phonograph turntables, Plural speed. F. M. Slough. 2,646,688, July 28.
Fuel injecting device for internal-combustion engines. T. N. Saaty. 2,646,976, July 28.
Fuel injector. M. J. Rerlyn. 2,647,015–16, July 28.
Funnel with smoke-directing provisions, Ship's. E. F. J. Lascroux. 2,646,746, July 28.
Fur blowing and mixing. J. E. Kane. 2,646,598, July 28.
Furnace: *See*—
Ore treating furnace.
Furnace with internal air heating conduit, Circulating air heating. E. F. Fromme. 2,646,701, July 28.
Fuse, Grenade. A. F. M. Diels. 2,646,750, July 28.
Galvanizing machine extracting mechanism. C. E. Brownell. 2,646,772, July 28.
Game, Marble board dice. E. K. Mentzer. 2,646,986, July 28.
Garment and making the same, Apparel. M. G. Rosenfeld. 2,646,569, July 28.
Garment hanger. C. H. Kraft. 2,646,890, July 28.
Garment, Overall. H. Lang. 2,646,568, July 28.
Gascock stop, Resilient. H. M. Reeves. 2,646,961, July 28.
Gasification of combustible materials. R. Rummel. 2,647,045, July 28.
Gauge for lenses, Thickness. E. D. Tillyer and J. R. Eves. 2,646,627, July 28.
Gauging and scribing means, Universal. E. F. Ruby and W. B. Owen. 2,646,624, July 28.
Gauss type photographic objective having two lens systems on opposite sides of a diaphragm. A. W. Tronnier. 2,646,721, July 28.
Gear: *See*—
Draft gear.
Gear assembly. H. F. Heisler. 2,646,691, July 28.
Gear cutter. O. F. Bauer. 2,646,611, July 28.
Gear teeth for toothed gears. U. Günther. 2,646,692, July 28.
Generating gears. A. W. Klomp. 2,646,724, July 28.
Glutamic acid, Production of. F. A. Hoglan. 2,647,142, July 28.
Gong construction and mounting. G. R. Fish. 2,646,768, July 28.

Governor having weights successively supported by spaced pivots, Centrifugal. R. C. Barnes. 2,646,978, July 28.
Grease deflector. H. O. Thomas. 2,646,857, July 28.
Grille structure. V. D. Castle. 2,646,741, July 28.
Grinder, Hydraulic roll. B. A. Wilson. 2,646,651, July 28.
Grinder with meshing teeth for knives, etc. B. K. Murchison. 2,646,653, July 28.
Grinding machine, Internal. H. L. Blood. 2,646,652, July 28.
Halogenated phthalocyanine disulfonic acids. A. Pugin. 2,647,126, July 28.
Hammer mill and blower arrangement. B. T. Sandor. 2,646,934, July 28.
Handbag. H. Meyers. 2,646,833, July 28.
Handbag, Lady's lighted. J. A. Contento. 2,647,201, July 28.
Handle: *See*—
Fishing rod handle.
Handle for fishing rods. O. C. George. 2,646,640, July 28.
Handling apparatus. M. E. Francisco. 2,646,897, July 28.
Handrail control, Moving stairway. W. F. Eames. 2,646,868, July 28.
Hanger: *See*—
Garment hanger.
Harmonica. K. Mast. 2,646,712, July 28.
Headlight with alignable and removable lamp units, Twin sealed-beam type. T. E. McDowell. 2,647,204, July 28.
Heat exchange unit. W. Raskin. 2,646,971, July 28.
Heater outlet and air circulator, Combination. J. S. Andrews. 2,646,744, July 28.
Heating equipment, Induction. E. M. Wharff, Jr. 2,647,199, July 28.
Helicopter rotor stabilizer, Automatic. A. M. Young. 2,646,848, July 28.
Hermetic package sealing machine. L. L. Brandenburg and G. W. Orem. 2,646,837, July 28.
Highway guard. N. E. Hendrickson. 2,646,969, July 28.
Hoist. T. Wendherford. 2,646,893, July 28.
Hoisting and dumping means for trucks carrying dirt. R. Nussberger and J. Pellat-Finet. 2,646,902, July 28.
Holder: *See*—
Nursery bottle holder. Window sash holder.
Holder for articles of jewelry and the like. A. R. Cinami. 2,646,953, July 28.
Holding device, Adjustable. W. H. Draper, Jr. 2,646,903, July 28.
Hollow ware construction. S. Shatkin. 2,646,954, July 28.
Hydraulic fluid mechanism. J. W. Overbeke. 2,646,754, July 28.
Hydraulic mechanism. J. F. Joy. 2,646,755, July 28.
Hydraulic turbine governing system. W. J. Rheingans and B. R. Nichols. 2,646,812, July 28.
Hydrogen from hydrocarbons, Production of. S. P. Robinson. 2,647,041, July 28.
Hydrogen-rich gases, Production of. G. A. Mills. 2,647,042, July 28.
Ice cube machine. M. J. Vlasic. 2,646,660, July 28.
Improving the cold-water solubility of a fibrous cellulose ether. A. W. Anderson and B. V. Moeller. 2,647,064, July 28.
Incinerator with secondary combustion chamber for volatiles. J. G. Greemen. 2,646,758, July 28.
Incubator with automatic temperature and humidity control. H. W. Dryden. 2,646,930, July 28.
Indicator: *See*—
Level indicator. Valve position indicator.
Vacuum and pressure indicator.
Inhibiting foaming in water. L. O. Gunderson. 2,647,088, July 28.
Ink, Nonsmudging duplicating. W. N. H. Armstrong and H. S. Kredentser. 2,647,060, July 28.
Insert for bowling balls, Finger grip. S. J. Nagy and J. F. Klares. 2,646,985, July 28.
Inspecting apparatus. G. W. Penney and H. A. Thomas. 2,647,214, July 28.
Instantly reversible motor. D. C. Reek. 2,647,230, July 28.
Insulated condenser electrodes, Production of. J. Burnham. 2,647,079, July 28.
Interlocking mechanism for calculating machines. C. F. Webb. 2,646,927, July 28.
Iodoform as modifier in vinyl chloride polymerization. A. W. Barnes. 2,647,107, July 28.
Isophthalic acid, Production of. R. M. Cavanaugh, C. B. Flack, and R. H. Weir. 2,647,141, July 28.
Isotope separating apparatus. W. E. Parkins. 2,647,213, July 28.
Jet combustion fuel. J. M. Godsey. 2,647,046, July 28.
Joining plastic elements. W. K. Smith. 2,647,072, July 28.
Joining together the ends of thin-walled aluminum heat exchange tubes. W. H. Geddes, G. G. Karlson, and M. Werensky. 2,646,620, July 28.
Joint: *See*—
Flange pipe joint. Universal joint.
Joint assembly, Angular tubular. R. S. Colley. 2,647,000, July 28.
Joint for leg braces, Self-locking and unlocking pivot. E. and V. A. Swiech. 2,646,793, July 28.
Key receiver and time checking apparatus. E. F. Kopecky. 2,647,031, July 28.
Laminated case construction, Making. F. S. Schade. 2,647,071, July 28.
Lamp: *See*—
Electric discharge lamp.
Latching and operating mechanism, Door. G. W. Way. 2,647,003, July 28.
Latex coagulation process. J. F. Griffith, R. W. Lange, and T. W. Fisher, Jr. 2,647,103, July 28.
Lawn mower construction. G. W. Dunham. 2,646,658, July 28.
Lawn mower handle and manufacturing same, Three-piece tubular. H. C. Knarxer. 2,646,591, July 28.
Level indicator. W. F. Archibald. 2,647,251, July 28.
Lever type vacuum cap lifter. J. Belpedio. 2,646,705, July 28.
Lifter: *See*—
Lever type vacuum cap lifter.
Light reflector. H. E. Smith. 2,647,203, July 28.
Linear polyester composition. J. C. Shivers, Jr. 2,647,104, July 28.
Linear polyester plasticizers. W. M. Smith, Jr., and R. J. Reid. 2,647,098, July 28.
Loading motor transports. P. J. Huebshman. 2,647,010, July 28.
Lock for clotheslines. P. Tapernoux. 2,646,604, July 28.
Lock slider, Safety automatic. L. H. Morin. 2,646,605, July 28.
Loop-taker mounting means for sewing machines. E. M. Hanf. 2,646,760, July 28.
Loud-speaker baffle with elongated aperture for the egress of sound. R. Chapman and R. H. Trier. 2,646,851, July 28.
Loud-speaker cabinet. J. Forrester. 2,646,852, July 28.
Lubricating fittings, Making. A. L. Staley. 2,646,614, July 28.
Lubricating means for pneumatic door checks, closers, and the like. B. A. Quinn. 2,646,589, July 28.
Luggage compartment and spare wheel carrier, Automotive vehicle. B. Walker. 2,647,012, July 28.
Luminaire for street lighting. W. H. Elmer. 2,647,202, July 28.
Machine for blending wool. J. D. Townsend. 2,646,597, July 28.
Machine for operating on shoes. B. Jorgensen. 2,646,582, July 28.
Machine for shaping stitchdown uppers over lasts. E. L. Butler and O. M. Holmes. 2,646,583, July 28.
Machine tool. H. Goldberg. 2,646,700, July 28.
Magnetic separator with stationary magnet. D. W. Molins, F. F. Ruau, V. P. Harvey, and S. A. Nichols. 2,646,883, July 28.
Magnetic sound record editing machine. C. E. Rivas. 2,647,108, July 28.
Making a variegated frozen confection, Method and apparatus for. F. L. Hackmann. 2,646,757, July 28.
Manufacture of sterling silver handles with gold design headings. M. H. Storch. 2,646,698, July 28.
Manufacturing a magnetic material. J. Boeke. 2,646,608, July 28.
Mattress and spring, Combination. T. W. Marsico. 2,646,580, July 28.
Measuring device, Thermo-responsive. C. Hogenbirk. 2,647,235, July 28.
Mercerization. W. F. Luther. 2,647,037, July 28.
Metal having precious metal surface and beryllium-copper base, Composite. E. H. Davignon. 2,646,616, July 28.
Metal phthalocyanines, Preparing. R. E. Brouillard. 2,647,128, July 28.
Metal-to-ceramic seals, Making. C. V. Litton. 2,647,070, July 28.
Methanethiol, Production of. R. T. Bell. 2,647,151, July 28.
Method, machine, and tool for lapping dividing heads and gears. J. D. Strong. 2,646,650, July 28.
Method of and device for saving shaving soap. M. J. Carrau. 2,646,878, July 28.
Methyl methacrylate-modified oil alkyd. C. J. Opp and R. E. Werner. 2,647,093, July 28.
Methylchlorosilanes, Preparation of. R. O. Sauer. 2,647,136, July 28.
Mixing concrete by gravitational vibration. H. Waldvogel. 2,646,075, July 28.
Mixing valve. F. A. Johansson. 2,646,821, July 28.
Modulating gas control. R. C. Frost. 2,646,932, July 28.
Mold: *See*—
Rubber core mold.
Molder's sand treating and conveying apparatus. P. S. Hardy. 2,646,602, July 28.
Molding O-ring gaskets. O. P. Leistensnider. 2,646,595, July 28.
Mophead structure and handle mounting, Resilient. F. Wagner. 2,646,588, July 28.
Mop with two-part hinged backing, Sponge type. E. A. Sjöblom. 2,646,587, July 28.
Motor: *See*—
Instantly reversible motor.
Motorboat. T. R. Boles. 2,646,765, July 28.
Motor for driving rotary tools, Fluid. G. P. Wagner. 2,646,962, July 28.
Motor or pump having axially sliding vanes, Rotary fluid. C. M. Zoll. 2,646,753, July 28.





Motor road vehicle torsion resistant chassis. J. H. Weaving, K. J. Dangerfield, and Thomas K. Garrett. 2,646,991, July 28.
Motor vehicle power transmission system. A. C. Miller, A. M. Kamper, and G. Berry. 2,646,864, July 28.
Mounting: *See*—
Shockproof mounting.
Muffler having a plurality of helical passages, Baffle type. O. B. Walker. 2,646,854, July 28.
Multiple-decade differential counter. L. L. Young and R. M. Wilmotte. 2,646,926, July 28.
N - (n - tetradecyl) - N - (3,4 - methylenedioxybenzyl)-N,N-dimethylammonium chloride and preparation thereof. C. E. Kwartler. 2,647,130, July 28.
N-(2-pyridyl) 2-chloro-3-amino-1,4-naphthoquinones J. C. Calandra and E. C. Adams, Jr. 2,647,123, July 28.
Nitrogen-containing materials from olefins, Preparation of. H. D. Hartough, J. J. Dickert, Jr., and S. L. Meisel. 2,647,117, July 28.
Nonambiguous cycle matching system. W. Dean. 2,647,257, July 28.
Novelty device, Wind-driven. W. Richmond. 2,646,644, July 28.
Nozzle. J. H. Couillette. 2,647,017, July 28.
Nursery bottle holder. J. H. Chambers. 2,646,952 July 28.
Nut cracker with slidably mounted crank lever. E. P. Kennedy. 2,646,831, July 28.
Object ejecting apparatus, Cylindrical. F. H. Robertson. 2,646,786, July 28.
Oil seal means or the like. O. Brummer. 2,647,002, July 18.
Oiler, Multiple. F. J. Lyden. 2,646,856, July 28.
Ore treating furnace. C. W. Sisco. 2,646,900, July 28.
Ornament and clip, Novel. A. G. Rinehart. 2,646,668, July 28.
Outboard transducer assembly. D. O. Nelson and R. P. Geddes, Jr. 2,646,950, July 28.
Oxidative condensation of amines and dithio acids. G. E. Smith, Jr. 2,647,144, July 28.
Oxygen-containing carbon compounds, Production of. P. C. Condit and J. A. Spence. 2,647,149, July 28.
Package for tapelike material. W. M. Scholl. 2,646,877, July 28.
Paintbrush container having cleaning fluid therein. A. W. Yenne. 2,646,808, July 28.
Pan, Heating and cooling backing. A. H. Jung. 2,646,601, July 28.
Panel assembly for storage bins, Inflatable. W. R. Vincent. 2,646,905, July 28.
Passive four terminal network for gyrating a current into a voltage. H. D. H. Tellegen. 2,647,239, July 28.
Peep sight for firearms, Adjustable. E. T. Lake and R. R. Hardgrove. 2,646,625, July 28.
Pen, Ball. W. Scholz. 2,646,776, July 28.
Pen, Fountain. J. S. Zarur. 2,646,777, July 28.
Pencil. J. A. Vierling. 2,646,775, July 28.
Perchloromethyl mercaptan, Manufacture of. H. M. Pitt and W. Hogge. 2,647,143, July 28.
Permanently plastic insulating composition. H. B. Willis and P. E. Dupler. 2,647,063, July 28.
Phosphor manufacture. H. H. Homer. 2,647,086, July 28.
Phosphor suspension and applying. H. H. Homer. 2,647,066, July 28.
Photochemical preparation of tropilidenes. W. V. Doering and L. H. Knox. 2,647,081, July 28.
Photocomposing apparatus. R. W. Wirtz. 2,646,731, July 28.
Photoelectric Sorting of Small Articles. N. Frankel. 2,646,880, July 28.
Photoflash gun. M. N. Fairbank. 2,646,672, July 28.
Photoflash synchronizing mechanism for focal plane shutter cameras. A. Wagner, A. Bröhl, and W. Jung. 2,646,734, July 28.
Photographic element for color photography and producing multicolor pictures. E. H. Land. 2,647,049, July 28.
Photographic emulsions containing sensitizing dyes. J. C. Firestine. 2,647,050, July 28.
Photographic emulsions containing sensitizing dyes. W. H. Vinton and J. C. Firestine. 2,647,051, July 28.
Photographic emulsions containing sensitizing dyes. W. H. Vinton and J. C. Firestine. 2,647,054, July 28.
Photographic emulsions containing symmetrical carbocyanine dyes. W. H. Vinton. 2,647,053, July 28.
Photographic product and processes for forming a white image viewable against a dark background. E. H. Land. 2,647,055, July 28.
Photographic silver halide emulsion containing symmetrical carbocyanine dyes. E. L. Martin. 2,647,052, July 28.
Photographic transfer process, One step. E. H. Land. 2,647,056, July 28.
Photopolymerization of acrylic esters, Light-stabilized. R. M. Joyce. 2,647,080, July 28.
Pick-up and transfer means, Liquid. H. E. Shearer. 2,646,612, July 28.
Picker stick check. C. W. Franklin. 2,646,826, July 28.
Pigment pastes comprising a pigment and a salt of a copolymer of styrene and a maleic half-ester. F. J. Hahn. 2,647,094, July 28.
Pipe and pipe fittings, Plastic-coated. W. C. Ferguson. 2,646,822, July 28.
Piston assembly for shock absorbers. C. E. Read and R. H. Whisler, Jr. 2,646,859, July 28.
Pivoted jaw wrench. C. D. Daniels. 2,646,709, July 28.
Planing machine. O. Waldrich. 2,646,727, July 28.
Plastic molding compositions comprising a vinyl chloride polymer and a resinous terpeuephenol reaction product. G. P. Humfeld and D. A. de Tartas. 2,647,097, July 28.
Plug: *See*—
Spark plug.
Plug with sealing sleeve, Rotacy. G. R. Ericson. 2,646,960, July 28.
Polarizing ceramic transducers. A. L. W. Williams. 2,646,610, July 28.
Poly-anode flip-flop tube. C. R. Williams and C. S. Andersen. 2,647,221, July 28.
Polyester plasticizers, Linear. W. M. Smith, Jr. 2,647,099, July 28.
Polymerization of styrene. T. Shusman. 2,647,111, July 28.
Polymerizing epsilon-caprolactam. H. R. Mighton. 2,647,105, July 28.
Polythioureas, Production of. D. J. Waters and D. L. Wilson. 2,647,108, July 28.
Polyvinyl chloride composition containing a Utah coal resin. L. J. Radi. 2,647,096, July 28.
Polyvinyl ether adhesive substance for plaster coatings and making the same. F. Saiditt. 2,647,100, July 28.
Power-operated wrench. G. A. Lindberg. 2,646,966, July 28.
Power source for alternating current blower motors, Controllable. H. Soter. 2,646,931, July 28.
Power-transmission adjusting device. B. Crowther 2,646,690, July 28.
Preparing composite propellants. C. A. Thomas and J. R. Eck. 2,646,596, July 28.
Prepacing metal phthalocyanines. R. E. Brouillard. 2,647,127, July 28.
Preparing vamps for shoes of the California or forced-lasted type. W. F. Herlihy. 2,646,584, July 28.
Prepatch connector bay. C. B. Dewey and N. C. Zatsky. 2,647,244, July 28.
Preventing collapse of molded concrete products when core is withdrawn, Means for. R. O. Davis and N. B. Osborne. 2,646,607, July 28.
Printing apparatus, Stencil. J. B. Thomas and C. E. Moorhouse. 2,646,749, July 28.
Progressive fuel combustion fluid heating apparatus and control means therefor. L. M. Reygagne. 2,646,790, July 28.
Protecting color pictures exposed to high humidities against fading and staining. E. Seary and A. Salerno. 2,647,057, July 28.
Protecting device for tubular conduits and the like. H. S. Bimpson. 2,646,818, July 28.
Protector skid for thermocouples. W. R. Guerry. 2,647,153, July 28.
Pump with inlet strainer. W. F. Slater. 2,646,752, July 28.
Purification of melamine. J. W. Haworth and M. G. Cooper. 2,647,119, July 28.
Rack for vehicles, Side. C. G. Barden. 2,646,909 July 28.
Radar system. W. G. Heilpern and E. Vogt. 2,647,256, July 28.
Radiator. H. George. 2,647,197, July 28.
Radiator, Fin type. E. C. Schmid. 2,646,972, July 28.
Radio-frequency transmission line switching system. W. Todd 2,647,240, July 28.
Radio-frequency tuning device. D. H. Fisher and W. Jones. 2,646,684, July 28.
Railway car hand brake. J. P. Templeman. 2,646,895, June 28.
Ratchet wrench. S. Yavner. 2,646,711, July 28.
Readily attachable electrical connector. C. E. Gilbert, 2,647,245, July 28.
Readily filterable viscose, Making. E. Torke and W. Matthaes. 2,647,114, July 28.
Reamer. J. J. Strnad. 2,646,702, July 28.
Reclaiming rubber with reaction products of dialkylnaphthols with sulfur chloride. W. A. Hensley. 2,647,089, July 28.
Record-actuated photocomposing machine. H. B. Ackerman. 2,646,733, July 28.
Record storage cabinet. A. Wallach. 2,647,027, July 28.
Recording apparatus, Spark stylus. H. T. Faus. 2,647,033, July 28.
Rectifier balancing circuit. J. E. Hawkins and R. S. Finn. 2,647,207, July 28.
Reel construction, Fishing. S. G. Hirsch. 2,646,939, July 28.
Refractory masses and batch, Making. F. E. Lathe. 2,647,062, July 28.
Repair head for heddles. W. H. Thorpe. 2,646,825, July 28.
Repairing punctures in pneumatic tires and tubes. C. E. Notz. 2,646,707, July 28.
Retainer for children's seats. M. D. Welsh. 2,646,838, July 28.
Retrieving arrangement for well drilling operations. L. E. Stewart and M. J. Winters. 2,647,008, July 28.
Riboflavin by microbiological fermentation, Production of. S. C. Beesch and B. W. Fraser. 2,647,074, July 28.
Road machine. B. T. Vig and A. H. Fischer. 2,646,730, July 28.

Rod: *See*—
Fishing rod.
Roll mill with means for spacing the rolls while being rotatively driven, Multiple. M. G. Hill. 2,646,935, July 28.
Roll paper dispenser. C. N. Larson. 2,647,028, July 28.
Roof for the cockpits of aircraft, Two-panel slidable and jettisonable. R. Saulnier. 2,646,949, July 28.
Rotary bladed or like assembly. E. M. Butcher. 2,646,926, July 28.
Rotary gas burner. L. P. Locke. 2,646,788, July 28.
Rotary machine adapted to operate as a pump, compressor, or motor. G. H. Péguet and A. Guyennon. 2,646,756, July 28.
Rubber core mold. H. H. Easterday. 2,646,606, July 28.
Rule with a detachable connection, Collable. F. A. Volz. 2,646,940, July 28.
Safety apparatus for elevators. E. A. Sahlin. 2,646,858, July 28.
Saw sharpener. C. A. Phillips and W. B. Sanford. 2,646,697, July 28.
Scale, Weighing. J. Weber. 2,646,979, July 28.
Scoring system for ball games. G. A. Hatherell. 2,646,987, July 28.
Sealing containers for pressure testing, Means for. L. M. Kubaugh. 2,646,677, July 28.
Seat structure, Adjustable. R. H. Hillman. 2,646,839, July 28.
Seat structure, Upholstered. W. W. Good. 2,646,840, July 28.
Sediment bulb for carburetors. J. E. Findley. 2,646,884, July 28.
Selective reduction of 3-keto group of polyketosteroids. J. A. Hogg, D. A. Lyttle, and A. H. Nathan. 2,647,134, July 28.
Self-threading, self-cleaning tension device. F. R. Borges, Jr. 2,646,941, July 28.
Semiopen circuit gas-turbine engine. M. H. L. Sédille. 2,646,663, July 28.
Separation of alcohols from mercaptans. R. J. Askevold. 2,647,150, July 28.
Separation of organic compounds. W. P. Burton. 2,647,139, July 28.
Sewing kit. E. K. Madan. 2,646,908, July 28.
Shaft machine, Helical. W. E. De Wald. 2,646,687, July 28.
Shaft vibrator. H. E. Willitts. 2,646,685, July 28.
Sheath for hair combs, Disposable. A. Newman. 2,646,804, July 28.
Sheath with embedded electrical conductor, Insulating. L. D. Hood. 2,647,160, July 28.
Sheet wrapper mechanism for facsimile machines. C. Jelinek, Jr. 2,647,034, July 28.
Shirt. E. and A. Rinehart. 2,646,570, July 28.
Shock absorber, especially for automotive vehicles. R. Pirard. 2,646,860, July 28.
Shockproof mounting. W. E. Coykendall, Jr. 2,646,958, July 28.
Shoelace, Educational. E. B. Miller. 2,646,630, July 28.
Shorts, Reinforced. F. H. Eudy. 2,646,572, July 28.
Shoulder pad and construction thereof. D. Morgenstern. 2,646,573, July 28.
Shoulder rest, Telephone. S. E. Harmon. 2,647,171, July 28.
Shoulder shaping attachment for road working machines. W. L. Jahn. 2,646,633, July 28.
Shovel for narrow underground galleries, Mechanical. P. Garnier. 2,646,901, July 28.
Shutoff for tank filling, Automatic. T. O. Cox, H. C. Rankin, and S. A. Trott. 2,646,817, July 28.
Sidecar for motorcycles. N. Straussler. 2,646,992, July 28.
Signal: *See*—
Traffic warning and directing signal.
Signal apparatus, Moving. F. R. Gardufio. 2,646,766, July 28.
Signal transducer, Electroacoustical. R. K. Duncan. 2,647,162, July 28.
Signaling mechanism, Pinfall. M. Patterson. 2,646,984, July 28.
Signaling system, Electrical. J. F. Mackenzie and T. Horrocks. 2,647,253, July 28.
Signaling system, Voice-frequency code. M. den Hertog. 2,647,164, July 28.
Silicate-coated papers, Manufacture of. W. Stericker. 2,647,069, July 28.
Sink and drainboard assembly. A. H. Galley. 2,646,575, July 28.
Sintering apparatus. R. F. Leftwich. 2,646,980, July 28.
Skirt, Pleated. M. B. Terry. 2,646,571, July 28.
Slidable side jaw wrench. A. T. Allen. 2,646,710, July 28.
Soaking of rayon bucket cakes before centrifugal washing. F. R. Millhiser. 2,647,039, July 28.
Socket for plug-in type electric meters. J. C. Clark. 2,647,243, July 28.
Socket-type contact. E. E. Ritter. 2,647,248, July 28.
Socket with pin tap connecting means, Electric lamp. C. E. Gilbert. 2,647,246, July 28.
Sod cutting attachment for garden tractors. V. Luoma. 2,646,740, July 28.
Soil conditioning machine. H. E. Swartout. 2,646,736, July 28.
Solids baffle for catalyst apparatus. R. T. Savage and J. C. Dart. 2,647,044, July 28.
Sound recording and reproducing apparatus. A. C. Davis. 2,646,989, July 28.
Sound re-recording method and system. K. Singer. 2,647,176, July 28.
Space heating means for dynamo-electric machines. R. W. Eggleston. 2,647,215, July 28.
Space reservation system. I. Molnar. 2,647,249, July 28.
Spark plug. L. Coughlin. 2,646,783, July 28.
Speed control for rotary motors. P. M. Mueller. 2,646,813, July 28.
Speed governor for fluid operated rotary motors. P. M. Mueller. 2,646,814, July 28.
Spirit level and making the same. S. Shaler. 2,646,628, July 28.
Sprinkler head. R. M. Edwards. 2,647,014, July 28.
Stabilization of rayon cake size before centrifugal washing. W. R. O'Brien and G. R. Scantling. 2,647,040, July 28.
Stable water-soluble salts of sulfuric acid esters of leuco-anthraquinone azo-dyestuffs. K. Glenz. 2,647,112, July 28.
Stacking and elevating device. H. R. Coon, Sr., and E. J. Rapp. 2,646,898, July 28.
Staking machine, Selective. C. R. Campbell, Jr. 2,646,676, July 28.
Stump layout device. A. Palin. 2,646,626, July 28.
Stand and holder for jacks. C. H. Lovik. 2,646,957, July 28.
Starter for induction motors, Automatic. J. A. Cortelli. 2,647,231, July 28.
Static discharge apparatus, Electronic. A. J. Check. 2,647,223, July 28.
Steering and centering means for trailer wheels, Power. C. H. Brown. 2,646,850, July 28.
Steering apparatus, Automatic. R. J. Kutzler and D. G. Taylor. 2,646,947, July 28.
Steering apparatus, Automatic. R. J. Kutzler. 2,647,233, July 28.
Stepped edge cutting tool. P. A. Letlen. 2,646,701, July 28.
Stocking or bandage, Stretchable. W. M. Scholl. 2,646,797, July 28.
Storing and dispensing apparatus, Self-leveling. J. L. G. Fitz Patrick. 2,647,030, July 28.
Storing, cooling, and dispensing beverages, Method of and apparatus for. W. R. Kromer. 2,646,667, July 28.
Strand tensioning device. R. D. Heffelfinger. 2,646,942, July 28.
Strand tensioning device. R. D. Heffelfinger. 2,646,944, July 28.
Structure and method for cleaning welding rods. E. E. Rhodes and H. G. Scholtz. 2,646,649, July 28.
Styrene modified alkyds and producing the same. C. J. Meeske and D. Laganis. 2,647,092, July 28.
Sulfuric acid half esters of leuco anthraquinones in mildly alkaline aqueous medium, Preparing. W. B. and E. M. Hardy. 2,647,124, July 28.
Sunbeam receiving and reflecting device. A. Pollansky. 2,646,720, July 28.
Support: *See*—
Bed clothing support.
Support for garbage cans and the like. C. R. Russell. 2,646,955, July 28.
Support for movably mounting mechanisms such as motors. J. J. Sloyan. 2,646,951, July 28.
Switch: *See*—
Double break switch. Electronic switch.
Double pole double throw snap switch. Thermally actuated electric switch.
Switch apparatus, Starter. R. L. Handy. 2,647,178, July 28.
Switch contact, Making. P. R. Enzler. 2,646,813, July 28.
Switch contact means, Electrical. E. J. Poitras. 2,647,188, July 28.
Switch for electric motors, Power controlled. D. H. Ransom and F. Benjamin. 2,647,232, July 28.
Switch operating device, Electric. J. O. Rexroad. 2,646,693, July 28.
Switching device, Electronic. R. B. Trousdale. 2,647,206, July 28.
Switching means. W. C. Tregoning, Sr. 2,647,180, July 28.
Switching mechanism. G. X. Lens. 2,647,166, July 28.
Syringe, Cartridge. F. E. Brown. 2,646,798, July 28.
Table with adjustment mechanism, Sectional top operating. H. R. Shampaine. 2,647,026, July 28.
Tag and method of and apparatus for applying same, Garment. H. S. Owen. 2,646,635, July 28.
Tamping machine. A. Godenir. 2,646,729, July 28.
Tank for the manufacture of glass. P. Arbeit. 2,646,648, July 28.
Telephonic pulse-code-modulation system. C. E. G. Bailey. 2,647,238, July 28.
Television receiver. P. C. Jansen and G. Weehuizen. 2,647,255, July 28.
Temperature indicating system, Automatic. R. G. Walton. 2,646,681, July 28.
Tens transfer device, Independent actuator. R. Gourdon. 2,646,929, July 28.



Tens transfer mechanism. C. A. Parker. 2,646,928, July 28.
Tension control device. L. J. Lindsay. 2,646,943, July 28.
Terminal panel assembly. T. M. Cole and P. M. Christensen. 2,647,225, July 28.
Terpenylalkylphenols and their preparation. L. J. Kitchen. 2,647,152, July 28.
Tertiary amines and preparing them. S. Archer and A. W. Ruddy. 2,647,122, July 28.
Tetraethylthiuram disulfide derivatives. J. G. Hald, I. G. Gad, and S. A. V. Deans. 2,647,145, July 28.
Textile apparatus. E. L. Johnson and C. R. Delagrange. 2,646,937, July 28.
Thermally actuated electric switch. S. M. De Puy. 2,647,189, July 28.
Thermocouple testing system. J. A. Herbst. 2,647,237, July 28.
Thorn-removing device and stem cutter. P. Catanese. 2,646,621, July 28.
Thread end release and cutting mechanism. H. T. O'Neill, Jr. 2,646,936, July 28.
Threadless retainer. W. E. Summerbell. 2,646,713, July 28.
3, 4-dihydroxy-4'-halogenochalcones. G. J. Martin, J. M. Beller, S. Avakian, and J. N. Moss. 2,647,148, July 28.
Timepiece, Self-winding. O. Von Aesch. 2,646,861, July 28.
Timer, Interval. R. C. Darnell. 2,646,844, July 28.
Tire cleat, Removable. E. F. Rusch. 2,646,834, July 28.
Tire mounting under hood accessible through door opening. B. Walker. 2,647,011, July 28.
Tongs. I. B. Coyle. 2,647,006, July 28.
Tool: *See*—
Bushing remover tool. Stepped edge cutting tool.
Machine tool.
Tool for snap ties, Inserting. G. Erbe. 2,646,703, July 28.
Tool for straightening sheet metal such as in vehicle bodies and the like. W. J. Palmer. 2,646,706, July 28.
Tower vehicle. J. Smid, M. Smith, and F. A. Leskovec. 2,647,022, July 28.
Toy. R. T. Nieset. 2,647,222, July 28.
Toy airplane and track. J. Cuervo. 2,646,645, July 28.
Toy, Hammer. M. I. Glass. 2,646,646, July 28.
Toy, Sleeper. N. I. Broyles. 2,647,195, July 28.
Track for track-laying vehicles. L. M. Kubaugh. 2,647,023, July 28.
Tractor transport box. R. Wiersbing. 2,646,910, July 28.
Traffic warning and directing signal. R. J. Peterson. 2,646,638, July 28.
Transducer construction, Magnetic. M. Rettinger. 2,647,167, July 28.
Transmission. A. Kepes. 2,646,696, July 28.
Transparent film from vinyl chloride based resins admixed with butadiene-acrylonitrile type copolymers, Making. B. J. Humphrey and R. J. Reid. 2,647,101, July 28.
Tray, Reinforced. C. E. Claff and C. A. Moeller. 2,646,914, July 28.
Treating vitreous materials. I. Patai. 2,647,068, July 28.
Triorganosilylbenzamides. K. C. Frisch and P. D. Shroff. 2,647,137, July 28.
Tripod. C. J. Cadwell and F. M. Adamson. 2,646,956, July 28.
Truck, Winch-operated hoist. J. C. Stuart and G. D. Darnell. 2,647,013, July 28.
Tube: *See*—
Ceramic electron tube. Ultra-wide band amplifier tube.
Poly-anode flip-flop tube.
Tuning stub. S. I. Rambo. 2,647,241, July 28.
2, 3-butadienylamines, Preparing. V. A. Engelhardt. 2,647,147, July 28.
2,3-difluorobutadiene preparation and polymers thereof. P. A. Wiseman. 2,647,116, July 28.
Type-setting device, Hand stamp. G. T. Brown, Jr. 2,646,748, July 28.
Ultra-wide band amplifier tube. C. Sheer. 2,647,175, July 28.
Union. D. J. Parmesan. 2,646,996, July 28.
Universal joint. H. B. R. Barbier. 2,646,669, July 28.
Urinal, Odorless. E. R. Gilleaple. 2,646,574, July 28.
Vacuum and pressure indicator. H. H. Pickron. 2,646,683, July 28.
Vacuum breaker for water supply systems. L. C. Leventhal. 2,646,815, July 28.
Vacuum spark control. J. A. Doyen. 2,646,781, July 28.
Valve: *See*—
Control valve. Mixing valve.
Float-controlled valve.
Valve for controlling high pressure fluids. F. S. Carver. 2,646,959, July 28.
Valve means for two-cycle reciprocating engines, Sleeve. H. N. Fiser. 2,646,779, July 28.
Valve plate, Dry rectifier. A. Arvidsson. 2,647,228, July 28.
Valve position indicator. J. Hanson. 2,646,767, July 28.
Valve tappet adjusting screw. H. R. Bethke. 2,646,780, July 28.
Valved pipe coupling. A. T. Scheiwer. 2,646,994, July 28.
Vapor liquid contact apparatus. W. W. Kraft. 2,646,977, July 28.
Vaporizer for gas turbine engines, Annular fuel. R. G. Meachino. 2,646,664, July 28.
Vending machine. P. Deland. 2,647,029, July 28.
Vehicle: *See*—
Tower vehicle.
Video clipping circuit. I. A. Krause. 2,647,209, July 28.
Vine cutter. E. A. Rohr. 2,646,739, July 28.
Vise jaw combination. C. Nickas, Jr. 2,646,708, July 28.
Washing apparatus. P. E. Whittington. 2,646,585, July 28.
Washing machine, Self-propelled automobile. D. A. Foutes. 2,646,586, July 28.
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Wheel structure. J. L. Deffenbaugh. 2,647,025, July 28.
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Window structure. J. E. Klee. 2,646,599, July 28.
Wire fence stretcher. U. G. Usher. 2,646,963, July 28.
Wire stretcher, Fence. F. Chaussee. 2,646,970, July 28.
Wrench: *See*—
Pivoted jaw wrench. Ratchet wrench.
Power-operated wrench. Slidable side jaw wrench.
Wringer spacer. H. Jerome. 2,646,675, July 28.

# CLASSIFICATION OF PATENTS

## ISSUED JULY 28, 1953

NOTE.—First number = class, second number = subclass, third number = patent number

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## CLASSIFICATION OF DESIGNS

D 4— 3: Des. 170,097
D 5— 4: Des. 170,105
D 9— 2: Des. 170,095
D14— 3: Des. 170,093
D15— 1: Des. 170,100
6: Des. 170,073

D15—11: Des. 170,088
D26— 1: Des. 170,103
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D61— 1: Des. 170,096
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D71— 1: Des. 170,090
D85— 2: Des. 170,074

D85— 2: Des. 170,078
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D90— 8: Des. 170,077

U. S. GOVERNMENT PRINTING OFFICE: 1953

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

IN RE O'KEEFE

*No. 5940. Decided March 11, 1953*

[202 F.2d 767; 97 USPQ 157]

1. PATENTABILITY—ACT OF 1952—STANDARD OF INVENTION NEITHER RAISED NOR LOWERED.

"The Patent Act of 1952, 35 U. S. C. Sec. 103, which took effect January 1, 1953, has apparently neither raised nor lowered the standard of invention • • •."

2. SAME—INVENTION—CHANGE IN PROPORTIONS.

"Invention may be involved in the development of a crowded art by a change in the proportions of a critical element of an operating device."

3. SAME—SAME—GENERAL RESEMBLANCE OF ELEMENT TO PRIOR ART DOES NOT PRECLUDE INVENTION.

*Held* that a general resemblance to an element in the prior art does not necessarily cause the rejection of claims which recite an organization of elements not found or suggested in the prior art.

4. SAME—PARTICULAR SUBJECT MATTER—STOVE.

Certain claims to a stove having a heat deflector *Held* patentable over the cited prior art.

APPEAL from Patent Office. Serial No. 581,890.

REVERSED.

*Jewett, Mead Browne & Schuyler* (*Francis C. Browne* of counsel) for appellant.

*E. L. Reynolds* (*S. W. Cochran* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner in finally rejecting claims 15 through 20 of appellant's application for a patent on an alleged invention which relates particularly to features of stove construction that can be incorporated advantageously in modern cooking stoves or ranges such as are commonly termed console type stoves.

No claims were allowed and all of them were rejected on two independent grounds; namely, (1) as unpatentable over the disclosure of patent of Maul, 1,505,273, issued August 19, 1924, and (2) Maul in view of the disclosure of the patent to Lindemann, 1,772,870, issued August 12, 1930.

The structure of appellant's stove is provided with a panel at its front, and the controls or knobs disposed on the panel are protected from the heating effect of a cooking compartment therebelow.

Claim 15 is illustrative:

15. A stove including a cooking compartment having a front opening, a door at the front of the stove normally closing the opening, a fixed upwardly and inwardly extending panel at the front of the stove above the door, a control element at the front of the panel, and a fixed heat deflector between the top of the opening and said panel in the path of heat flowing up from the opening at the front of the stove and directing such heat forward and away from the stove and clear of the control element, the deflector being curved upward and forward to have a concave heat directing surface and the forward portion of the panel being contiguous with the forward portion of the deflector and forming an acute angle therewith.

The state of the art and its unsolved problem was thus described so far as pertinent in the following excerpt from appellant's brief:

> Conventional domestic cook stoves have long been made with an oven closed by a door, and with a bank of cooking burners at the top of the stove. The gas valves are operated by control elements or knobs located at the front of the stove substantially at a level with the cooking burners and above the oven door. • • • with the conventional stove construction, use of the oven results in heating of the controls to the point where they are uncomfortable, if not actually dangerous, to use.

The desired effect is accomplished, as indicated in appellant's drawings, because the flow of hot air from the oven is ultimately directed horizontally, or substantially so, from the stove by the intermediate or concave section along the bottom and protruding edge of the panel, which structure acts as a heat deflector causing the hot gases issuing from the oven to be directed clear of the control knobs so that they remain cool.

The patent to Maul relates to an improvement in hotel oven structures; one oven above the other, in a unitary structure having separate oven compartments, the doors of which were often opened partially to cool off the double oven or retard baking therein. In practice, the lower oven became practically useless:

> • • • I find the trouble lies in the practice of opening the lower oven door, permitting heated oxygen exhausted air to escape from the lower oven right in the path of the primary air supply to the burners of the upper oven, and since warmed burned air and cold gas do not afford a proper or perfect combustion, the burners of the upper oven do not function properly—consequently poor baking. The chefs or cooks therefore discontinue to use the lower oven in order to obtain good results with the upper oven.

To remedy that situation, Maul proceeded (1) to "partition off, shield or inclose the air mixers of the upper oven burners," and then (2) "provide an independent source of air for such burners." Maul explains in his specification:

> • • • In partitioning off the air mixers of the upper oven burners, I prevent any heated and burned air, escaping or radiating from the lower oven burners, from being drawn in or entering such air mixers, and since I provide a remote source of air for the upper oven burners, proper combustion is assured. It is therefore obvious

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that the lower oven can be used, simultaneously with the upper oven, as intended, without destroying or interfering with perfect baking in the upper oven.

Each of the respective ovens, upper and lower, disclosed by Maul is provided with a burner for burning gas. These burners have air mixers into which extend the jets of valves connected to gas supply pipes supported in brackets on the front wall of the oven structure. In order that the use of the lower oven may not interfere with the operation of the upper oven, the supply of air to the burners of the upper oven is isolated or shielded from any heated air that may be emitted from the doorway of the lower oven by these two structural changes or additions to the usual form of double or superposed ovens.

A sectional or two-part casing or shield is mounted about the valves and in front of the air mixers of the burners for the upper oven hereinbefore described. The casing has been defined by Maul as an element comprising two oblong members, upper and lower, placed in abutting relation and having flanges at each end adapted to be fastened to the front wall of the oven structure by stove bolts, so that the mounted casing will be stationary in its position under the valves connected to the gas supply pipes of the burners for the upper oven.

Maul further provides that the element which constitutes the upper member of the casing hereinbefore described is detachably mounted on the upper edges of the casing member against the front wall of the oven structure. Said upper casing member is provided with three openings for the location of the controlling handles and stems of the upper valves; and in addition to such openings there is a depressed or recessed portion adjacent the pilot opening in the front wall of the oven structure. Air is supplied to the casing, comprising the upper and lower members, by a wide horizontal flue. Through its top wall and the apertured bottom wall of the upper oven, that oven receives fresh air.

Maul describes the pertinent remainder of his structure and the function thereof in his specification as follows, numerical references to the drawing being here omitted:

> • • • The rear wall of the flue has two openings communicating with vertical flues at the rear wall of the oven structure the said vertical flues having the lower ends thereof open at the bottom of the oven structure. • • • it will be noted that the smoke or exhaust flue has its lower end closed in a plane below the upper closed ends of the air intake flues, and the flues merge into a wide air intake passage at the lower part of the oven structure.
>
> • • • it will be noted that the lower oven door may be left ajar without any danger of the heated or burned air from the oven doorway entering the casing about the upper valves and consequently the lower oven can be operated in the usual manner without interfering with the operation of the upper oven. This upper oven will receive its air from the rear part or bottom of the oven structure and the same source of air serves the air mixers of the upper burners by reason of the casing communicating with the forward end of the flue. The arrangement of the casing about the valves does not interfere with the operation of said valves nor prevent adjustment of the air mixers, for the reason that the [upper] casing member may be easily removed.

During the prosecution of his application in the Patent Office appellant urged that the manifold or casing member which the Board of Appeals considered to be a deflector by which the three control members of the burners of the Maul reference "are materially shielded" from the heating effect of the escaping gases of the lower oven, was actually one of the two casing members which together were employed to "isolate or shield the supply of air" to the upper oven burners, but not to isolate or shield the control handles and stems of the upper valves.

The patent to Lindemann relates to improvements in the operation of gas stoves. The improvements consist mainly of a top front structure portion or casing disposed and extending forward, which frame or casing houses and conceals controlling elements of the stove. The object of the structure is not only to protect the parts thus enclosed from injury but also to guard them against accidental operation. A further object of the specified structure of Lindemann is to protect the clothes of the operator of the controls from flame and heat and at the same time present a stove front of finished and neat appearance. Beneath the mounted casing hereinbefore described a drip pan and a utility drawer are provided. Above said casing the grate of the stove is located. The drawings show the oven and a broiler vertically disposed beside the grate or burners and properly adapted to be supplied with heat therefrom.

Lindemann remarks in his specification and directs particular notice to the fact that the projecting front portion of the stove member hereinbefore described extends beyond the vertical plane of the valve operating means, as well as beyond the limits of the handles of the drip pan and the utility drawer. He then concludes:

> • • • Accordingly an operator, a housewife, or any other individual or object which approaches or passes closely in front of the stove cannot inadvertently open any of the burner valves. It is frequently the case that the clothing of an individual accidentally catches on the burner valve handles and inadvertently turns on the supply of gas thereby causing obvious dangers. The presence of this guard rail [protecting tip of the casing surface] prevents any such accidental opening or closing of the valves by reason of the fact that it protrudes beyond the outer limits thereof.
>
> The present improvements accordingly eliminate the usual open front at this part of the stove and therefore serve also to protect the clothing of the individual as well as the individual himself from the flames, heat and other dangerous characteristics of the burner areas, as well as from the heated metal portions of the stove.

The Examiner finally rejected the claims on appeal in a decision containing but two short paragraphs:

> Claims 15 through 20 are rejected as unpatentable over Maul who shows a guard for the gas valves on a stove which deflects the hot gases from the oven away from the valves. No invention is seen in making the lower portion of a concave shape rather than as shown. Whether the manifold was covered by the guard also, would be but a matter of choice.
>
> Claims 15 through 20 are further rejected as unpatentable over Maul in view of Lindemann. Maul shows a shield used on a gas range to protect the valves from the heat of an oven disposed below the valves. Lindemann shows the structure of a guard as shown by applicant. No invention is seen in using this guard which is shown to be old to deflect oven gases as clearly shown by Maul.

In sustaining the Examiner's rejection, and in view of his more explicit statements in the subsequent answer requesting affirmance, the Board of Appeals conceded that appellant's claimed structural arrangement "doubtless is effective" to achieve the desired result defined by the appealed claims; and that Maul in the principal reference does not specifically refer to the shielding of the control members from the heating effect of the hot air escaping from his lower oven. The Board held nevertheless that the structural changes over the art of record which appellant had produced did not require the exercise of the inventive faculty. The Board reasoned that it would be obvious to any person skilled in the art to provide a deflector from the heat of an oven below, in view of the casing of Maul, which, in effect, functioned as a heat deflector for the control elements which were "materially shielded" within the casing.

In the rejection of the appealed claims on Maul in view of Lindemann, the members of the Board said: "We think it is evident that if Lindemann's control panel were disposed over an oven instead of the utility drawer that is shown, it would inherently function as does appellant's device."

There is nothing disclosed by the record which actually indicates or suggests that Lindemann's substructure is concave or otherwise defined as a horizontally bent directing surface. On the contrary, as appellant urges, there is no suggestion nor "any reasonable basis for assuming that the materially different and non-functional underconstruction of the Lindemann 'guard' should be employed to perform a totally different purpose in connection with the Maul construction. • • • nor does either of the patents suggest that any part of the Lindemann patent should or could be placed in the environment of the Maul construction for any purpose whatever."

[1] The Patent Act of 1952, 35 U. S. C., § 103,[1] which took effect January 1, 1953, has apparently neither raised nor lowered the standard of invention:

> § 103. A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The rejection of the appealed claims solely on the complicated and controversial structure disclosed by Maul was apparently not a proper disposition of such claims by the tribunals of the Patent Office.

[1] The following explanatory excerpt is quoted from Report No. 1979, Committee on the Judiciary of the Senate, 82nd Congress, 2nd Session, Revision of Title 35, United States Code:

> Section 103, for the first time in our statute, provides a condition which exists in the law and has existed for more than 100 years, but only by reason of decisions of the courts. An invention which has been made, and which is new in the sense that the same thing has not been made before, may still not be patentable if the difference between the new thing and what was known before is not considered sufficiently great to warrant a patent. That has been expressed in a large variety of ways in decisions of the courts and in writings. Section 103 states this requirement in the title. It refers to the difference between the subject matter sought to be patented and the prior art, meaning what was known before as described in section 102. If this difference is such that the subject matter as a whole would have been obvious at the time to a person skilled in the art, then the subject matter cannot be patented.



The same conclusion must be likewise applied to their rejection of the claims on the combination of the references of Maul and Lindemann. *In re Lee*, 39 CCPA (Patents) 752, 756–757, 193 F.2d 186, 92 USPQ 131; *International Standard Electric Corp. v. Kingsland*, 169 F.2d 890. These last two cases stand for the proposition that the Primary Examiner and the Board of Appeals are required both by the law and the rules of practice of the Patent Office to clearly state the reasons for their opinion and the applicant need not specifically request that such be done.

[2] Invention may be involved in the development of a crowded art by a change in the proportions of a critical element of an operating device. *Eibel Co. v. Paper Co.*, 261 U. S. 45. There Chief Justice Taft, in writing the opinion for a unanimous Court, pointed out that the disclosure of a meritorious improvement on a machine, substantially advancing the art, is entitled to a liberal construction.

The Board of Appeals in ascribing to the manifold or casing of Maul a function which it did not possess, but which is possessed by appellant's construction, departed from precedents which have controlled the decisions of the Patent Office in the past. *Ex parte Beggs*, 69 USPQ 208. [3] The case of *Ex parte Wirth*, 59 USPQ 72, discloses a rule of patent law enunciated by the Board of Appeals to the effect that a general resemblance to an element in the prior art does not necessarily cause the rejection of claims which recite an organization of elements not found or suggested in the prior art.

With respect to changes basically analogous to those made by appellant in the device at bar, this court significantly remarked in the recent case of *In re Bisley*, 39 CCPA (Patents) 982, 983, 197 F.2d 355, 94 USPQ 80:

> • • • When viewed after disclosure by appellant these changes seem simple and such as should have been obvious to those in the field. However, this does not necessarily negative invention or patentability. *Goodyear Tire & Rubber Co., Inc. et al. v. Kay-O-Vac Company*, 321 U. S. 275; *In re DeLancey*, 34 CCPA (Patents) 849, 159 F.2d 737, 72 USPQ 477. Moreover, the conception of a new and useful improvement must be considered along with the actual means of achieving it in determining the presence or absence of invention. *In re DeLancey*, *supra*. • • •

Appellant states in his argument that the panel defined by the appealed claims employs and operates on aerodynamic principles, adapting them to the environment of his device. While such a feature is neither claimed nor explained in his application, the omission is not fatal to the allowance of the claims, inasmuch as his specification and claims demonstrate to any person skilled in the art the structure which operates to produce the desired result.

[4] The improvement defined by the appealed claims appears to constitute a difference over the prior art sufficiently important to warrant a patent.

For the reasons hereinbefore stated, the decision of the Board of Appeals is reversed.

REVERSED.

Judges WORLEY and COLE dissent.

# PATENT SUITS

**Notices under 35 U. S. C. 290; Patent Act of 1952**

1,918,969, Keeney & Fern, Rolling mills; 1,977,214, A. P. Steckel, Method and apparatus for hot rolling strip metal; 2,087,065, A. B. Montgomery, Method and apparatus for rolling, filed May 11, 1953, D. C., E. D. Ky. (Lexington), Doc. 516, *Cold Metal Products Co. v. Newport Steel Corp.*

1,977,214. (See 1,918,969.) 2,012,902. (See 2,127,079.)

2,032,827, N. H. Andrews, Method of and apparatus for providing material in finely divided form, D. C. Del. (Wilmington), Doc. 1104, *C. H. Wheeler Mfg. Co. v. Micronizer Co.* Dismissed without prejudice May 26, 1953.

2,087,065. (See 1,918,969.)

2,106,065, E. Rose, Mattress, D. C., E. D. Mich. (Detroit), Doc. 11287, *Rose-Derry Co. v. Progress Bedding Co.* Complaint dismissed upon merits, and relief requested by plaintiff denied (notice May 19, 1953).

2,127,079, J. A. Barkelj, Inlet manifold for internal combustion engines; 2,012,902, same, Method and means for gas distribution in inlet manifolds for internal combustion engines; 2,199,276, same, Intake manifold for internal combustion engines; 2,287,224, same, Internal combustion engine, filed May 20, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15330–BH, *J. A. Barkelj v. Studebaker Corp.*

2,199,276. (See 2,127,079.)

2,281,215, C. M. Van Auken, Grille guard; Des. 160,788, H. M. Jenkins, Jr., Automobile grille guard, filed May 19, 1953, D. C., E. D. Mich. (Detroit), Doc. 12660, *Van Auken, Inc. v. Pace Automotive Products, Inc.*

2,283,200, J. W. Flude, Method and apparatus for subsurface mining, D. C., S. D. Tex. (Houston), Doc. 6557, *J. W. Flude v. Magnolia Petroleum Co.* Order dismissing case with prejudice May 25, 1953, Doc. 7102, *J. W. Flude v. Pure Oil Co.* Decree as above.

2,287,224. (See 2,127,079.)

2,465,161, H. J. Little, Method for rapidly painting metal sheets, filed Nov. 13, 1951, D. C., E. D. Ky. (Covington), Doc. 544, *H. J. Little v. Newport Steel Corp.* Case dismissed Feb. 2, 1953.

2,477,168, T. H. Bradley, Fish eviscerating apparatus, filed May 21, 1953, D. C., N. D. Calif. (San Francisco), Doc. 31784, *T. H. Bradley v. C. J. Broad et al.*

2,545,798, R. L. Sjostrom, Sheet folding machine, filed May 27, 1952, D. C. Mass. (Boston), Doc. 52/610, *R. J. Sjostrom v. Profit Machinery Co., Inc., et al.*

2,566,287, L. H. Finneburgh, Jr., Television antenna system; 2,630,531, same, Television antennas, filed May 20, 1953, D. C., N. D. Ohio (Cleveland), Doc. 30273, *The Finney Co. v. A. W. Jewell, Inc.*

2,588,677, F. Welty, Automatic liquid carbonator, filed May 20, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13521, *Carbonic Dispenser, Inc. v. Selmix Dispensers, Inc.*

2,630,531. (See 2,566,287.)

2,634,129, Lohr & Carver, Ball control game apparatus, filed May 26, 1953, D. C., S. D. N. Y., Doc. 85/183, *Louis Marx & Co., Inc. v. Lido Toy Co.*

Des. 160,788. (See 2,281,215.)

# TRADE-MARK SUITS

**Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946**

T. M. 285,003, Abbott Laboratories, Hypnotic sedative anesthetic compound, filed May 21, 1953, D. C., S. D. N. Y., Doc. 85/125, *Abbott Laboratories v. Fame Drug Co.* Doc. 85/126, *Abbott Laboratories v. Cardinal Pharmacy.* Doc. 85/127, *Abbott Laboratories v. Berk-Stevens, Inc., et al.*

T. M. 309,368, E. A. Hubbs, Doughnuts and doughnut flour, filed May 25, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1240, *Dixie Cream Flour Co. v. J. A. Vitale.*

T. M. 505,974, National Chemical & Mfg. Co., Colored plaster; T. M. 562,640, Marblecoat Waterproofing Co., Waterproofing compound for masonry surfaces, filed Mar. 17, 1953, D. C., E. D. Ky. (London), Doc. 661, *National Chemical & Mfg. Co. v. Marblecoat Waterproofing Co. et al.* Trade-mark 562,640 was issued in error by the Patent Office and the Commissioner of Patents shall rectify the registration by cancelling same; defendants enjoined from further use of trade-mark "Marblecoat" after 90 days from May 8, 1953.

T. M. 562,640. (See T. M. 505,974.)

# NOTICES

## Concurrent Use Proceeding

[No. 137]

*Egbert Leslie Lantron, his assigns or legal representatives, take notice:*

A concurrent use having been declared by this Office between the application of Mid-West Refineries, Inc., 704 Michigan National Bank Building, Grand Rapids, Michigan, for registration of a trade-mark, and Registration No. 535,124 issued December 26, 1950, to Egbert Leslie Lantron, Box 44, Mesa, Arizona, and the notice of such declaration sent by registered mail to the said Egbert Leslie Lantron, at the said address of record, having been returned by the post office as undeliverable, notice is hereby given that unless said Egbert Leslie Lantron, his assigns or legal representatives, shall enter an appearance therein, within thirty days from the first publication of this order, the concurrent use will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—July 28, 1953.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

July 8, 1953.

## Disclaimer

2,485,430.—*Milton E. Chandler*, New Britain, Conn. CARBURETOR. Patent dated Oct. 18, 1949. Disclaimer filed June 10, 1953, by the assignee, *Niles-Bement-Pond Company.*

Hereby enters this disclaimer to claim 11 of said patent.





## International Convention for the Protection of Industrial Property

*Adherence of Finland to the London 1934 revision*

The Secretary of State has been notified by the Legation of Switzerland of the adherence, effective May 30, 1953, of Finland to the International Convention for the Protection of Industrial Property as last revised at London on June 2, 1934.

ROBERT C. WATSON,
*Commissioner of Patents.*

July 6, 1953.

## Adjudicated Patents

(D. C. N. C.) Dowless Patent No. 2,223,301, for an improvement in tobacco drying and curing means, *Held* not infringed. *Hooks v. Dowless et al.*; *Dowless et al. v. Hooks*, 111 F. Supp. 812; — USPQ —.

(D. C. N. J.) Peterson Patent No. 2,388,867, for a brush and brush material. Claims 1, 2, and 3 *Held* invalid. *The Osborn Manufacturing Company v. Newark Brush Company*, 111 F. Supp. 846; 97 USPQ 217.

(D. C. N. C.) Dowless Patent No. 2,444,814, for an improvement in tobacco drying and curing means, *Held* invalid. *Hooks v. Dowless et al.*; *Dowless et al. v. Hooks*, 111 F. Supp. 812; — USPQ —.

## Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,459,096, F. E. Ray, Method and apparatus for fluid hydrocarbon conversion, decided June 11, 1953, claims 2, 7, 8, and 9.

Pat. 2,515,464, M. J. Minneman, Direct reading radio navigation system, decided Apr. 29, 1953, claims 1, 3, and 4.

Pat. 2,547,778, C. E. Reistle, Jr., Method of treating earth formations, decided Apr. 24, 1953, claims 1, 2, 3, 4, 5, 6, and 7.

Pat. 2,577,827, C. B. Tompkins, Pulse recognition device, decided June 24, 1953, claim 5.

Pat. 2,588,546, L. Lee II, Control apparatus for internal-combustion engine, decided June 24, 1953, claims 27 and 30.

Pat. 2,595,331, P. F. Calihan and S. A. Mortenson, Combination vision mirror and signaling device, decided July 1, 1953, claims 1, 2, 3, 4, 5, and 6.

## Cancellation Notice

[No. 6097]

*Cadillac Wine Distributing Company, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Milan Wineries, 4109 Joe Street, Detroit 10, Michigan, to effect the cancellation of trade-mark registration of Cadillac Wine Distributing Company, 8900 Hubbell Avenue, Detroit, Michigan, No. 314,228, dated September 15, 1933, and the notice of such proceeding sent by registered mail to the said Cadillac Wine Distributing Company, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Cadillac Wine Distributing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks. (Date of first publication—July 21.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

June 29, 1953.

672 O. G.—59

[No. 6064]

*Dixie Dee Dresses Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by the Malouf Company, 517 Jackson Street, Dallas, Texas, to effect the cancellation of trade-mark registration of Dixie Dee Dresses Inc., 463 Seventh Avenue, New York, N. Y., No. 502,202 registered September 14, 1948, and the notice of such proceeding sent by registered mail to the said Dixie Dee Dresses Inc., at the said address having been returned by the Post Office as undeliverable, notice is hereby given that unless Dixie Dee Dresses Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—July 28, 1953.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

July 6, 1953.

## Classification Order No. 147

June 26, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

**ESTABLISH CLASS**

333—WAVE TRANSMISSION LINES AND NETWORKS
(Division 69)
(H. GAUSS and S. B. PRITCHARD, *Classifiers*)

Note: The subclass schedule, definitions of the above class, and complete Classification Order No. 147 will appear in Classification Bulletin No. 413.

*IN THE MANUAL OF CLASSIFICATION:*

**ABOLISH SUBCLASSES**

In *Class 30, Cutlery* (Division 11)

**Razors**

33 Special use

In *Class 35, Education* (Division 23)

**Erasable surfaces**

68 Compositions

In *Class 178, Telegraphy* (Division 69)

**Systems**

44 Wave transmission

**CHANGE SUBCLASS POSITION**

In *Class 178, Telegraphy* (Division 42), change the position of subclass 45 and indented subclass 46 to read:

**Systems**

45 Loaded circuit (to follow subclass 43.5 and be coordinate therewith)

46 Loading coils

**ESTABLISH SUBCLASSES**

In *Class 30, Cutlery* (Division 11)

(R. A. WAHL and E. V. BENHAM, *Classifiers*)

29.5—HAIR CUTTERS FOR INSIDE NOSE OR EAR (to follow subclass 29)

In *Class 106, Compositions, Coating or Plastic* (Division 38)

(R. LEIBOWITZ, *Classifier*)

**Coating or plastic compositions**

32.5 Erasable surface (to follow subclass 32)

In *Class 179, Telephony* (Divisions 16, 69)

(H. GAUSS and S. B. PRITCHARD, *Classifiers*)

**Systems**

Single channel via conversion (e. g., carrier)

15.55 Frequency range compression and/or expansion systems (to follow subclass 15.5)

**Repeaters** (I. e., **Two way amplifiers**)

170.2 Echo suppressing and/or anti-singing circuits (to follow subclass 170)

170.4 Pilot frequency controlled

170.6 Differentially controlled

170.8 Automatic level controlled

In *Class 260, Chemistry, Carbon Compounds* (Divisions 6, 50)

(H. PFEFFER and H. S. LEVINSON, *Classifiers*)

**Synthetic resins**
- 2.1 Ion exchange (to follow subclass 2)
- 2.2 Cation

**Heterocyclic carbon compounds**
- Six-membered rings containing one hetero-N-atom
- Pyridines
- 294.8 S-containing (to follow subclass 294.7)

## CHANGES IN CLASSES ARRANGED BY DIVISIONS

Delete Class 178—TELEGRAPHY
Sub. 44 (See Divisions 16, 42 for other subs.)
Class 179—TELEPHONY
Subs. 170, 171 (See Division 16 for other subs.)

Add Class 179—TELEPHONY
Subs. 170 thru 171 (See Division 16 for other subs.)
Class 333—WAVE TRANSMISSION LINES AND NETWORKS

## CLASSES ARRANGED IN ALPHABETICAL ORDER

| | | |
|---|---|---|
| Delete | Under 178—TELEGRAPHY | |
| | Sub. 44 | 69 |
| | Under 179—TELEPHONY | |
| | Subs. 170, 171 | 69 |
| Add | Under 179—TELEPHONY | |
| | Subs. 170 thru 171 | 69 |
| | Class 333—WAVE TRANSMISSION LINES AND NETWORKS | 69 |

## CLASSES ARRANGED IN NUMERICAL ORDER

| | | |
|---|---|---|
| Delete | Under 178—TELEGRAPHY | |
| | Sub. 44 | 69 |
| | Under 179—TELEPHONY | |
| | Subs. 170, 171 | 69 |
| Add | Under 179—TELEPHONY | |
| | Subs. 170 thru 171 | 69 |
| | Class 333—WAVE TRANSMISSION LINES AND NETWORKS | 69 |

## PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

| Abolished | | Disposition | |
|---|---|---|---|
| *Class* | *Subclass* | *Class* | *Subclass* |
| 30 | 33 | 30 | 29.5 |
| 35 | 68 | 106 | 32.5 |
| 178 | 44 | 333 | Various |
| | | 179 | 15.55, 170+, 171 |
| | | 250 | 27 |
| | | 323 | Various |

## PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

| Established | | Source | |
|---|---|---|---|
| *Class* | *Subclass* | *Class* | *Subclass* |
| 30 | 29.5 | 30 | 33 |
| 106 | 32.5 | 35 | 68 |
| 179 | 15.55 | 178 | 44 |
| | 170.2–170.8 | | 44 |
| 260 | 2.1, 2.2 | 260 | 2+ |
| | | 210 | 24 |
| | 294.8 | 260 | 290, 294.9, 295, 295.5, 296, 297 |
| 333 | VII | 178 | 44 |

## SUBCLASS SCHEDULE

### Class 333, Wave Transmission Lines and Networks

*Original Classification*—H. GAUSS, S. B. PRITCHARD, 1953

1 **Plural channel systems**
2 With automatic control
3 Line substitution
4 With balanced circuits
5 Plural balanced circuits
6 Branched circuits
7 With switching
8 With impedance matching
9 Having long line elements
10 Directional couplers
11 Hybrid type networks (e. g., magic T, hybrid transformer)
12 **Transmission line inductive or radiation interference reduction systems**
13 **Resonator type breakdown discharge systems (e. g., T-R or R-T systems)**
14 **Amplitude compression and expansion systems (i. e., Companders)**
15 **Pilot line controlled systems**
16 **Pilot current controlled systems**
17 **Automatically controlled systems**
18 With control of equalizer and/or delay network
19 **Differentiating or integrating systems**
20 **Wave shaping**
21 **Wave mode converters**
22 **Dissipating terminations for long lines**
23 **Artificial lines**
24 **Coupling networks**
25 Balanced to unbalanced circuits
26 Having long line elements
27 Interlinking long line
28 Equalizers
29 Delay networks
30 Electro-mechanical transducer type
31 Having long line elements
32 With impedance matching
33 Having long line elements
34 Tapered
35 Quarter-wave transformer type
36–69 No subclasses
70 Wave filters
71 Electro-mechanical transducer type
72 Piezoelectric
73 Having long line elements
74 Wheatstone or lattice type
75 Bridge type (e. g., bridged-T)
76 Resonant, discrete frequency selective type (e. g., harmonic elimination)
77 Transformer coupled
78 With magnetic core inductance
79 Smoothing type (e. g., direct current power supply filters or decoupling filters)
80 **Negative resistance and/or reactance networks of the active element type**
81 **Attenuators**
82 **Resonators (distributed parameter type)**
83 Cavity or wave guide type
84 **Long lines**
85–94 No subclasses
95 Wave guide type
96 Shielded type
97 **Long line elements and components**
98 Wave guide elements
99 **Miscellaneous**

M. C. ROSA,
*Executive Examiner.*

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

American Telephone and Telegraph Company has placed 270 patents on the Register as available for licensing on reasonable terms. The listing of this group of patents began in the OFFICIAL GAZETTE, July 21, 1953, and is completed in this issue.

A statement of the company's policy in licensing its patents was published in the *Register* section of the OFFICIAL GAZETTE, Feb. 15, 1949.

Inquiries concerning licenses should be addressed to: Patent Licensing Division, Western Electric Company, Inc., 195 Broadway, New York 7, N. Y., acting as agent for the American Telephone and Telegraph Company.

Pat. 2,604,912. Screwdriver. July 29, 1952. Reg. No. 51,179.

Pat. 2,604,923. Apparatus for Assembling Articles. July 29, 1952. Reg. No. 51,180.

Pat. 2,604,942. Advancing and Severing Strands. July 29, 1952. Reg. No. 51,181.

Pat. 2,605,052. Method of and Apparatus for Coiling Filamentary Articles. July 29, 1952. Reg. No. 51,182.

Pat. 2,605,323. Wave Transmission. July 29, 1952. Reg. No. 51,183.

Pat. 2,605,347. Telegraph Concentration Board Spare Communication Circuit. July 29, 1952. Reg. No. 51,184.

Pat. 2,605,361. Differential Quantization of Communication Signals. July 29, 1952. Reg. No. 51,185.

Pat. 2,605,366. Contact Assembly. July 29, 1952. Reg. No. 51,186.

Pat. 2,606,288. Timing Pulse Generator. Aug. 5, 1952. Reg. No. 51,187.

Pat. 2,606,309. Glow Discharge Device. Aug. 5, 1952. Reg. No. 51,188.

Pat. 2,606,314. Regulated Rectifier. Aug. 5, 1952. Reg. No. 51,189.

Pat. 2,606,405. Polishing Means and Method. Aug. 12, 1952. Reg. No. 51,190.

Pat. 2,606,443. Exploration of Troposphere Stratification. Aug. 12, 1952. Reg. No. 51,191.

Pat. 2,606,817. Preparation of Microphonic Carbon. Aug. 12, 1952. Reg. No. 51,192.

Pat. 2,606,960. Semiconductor Translating Device. Aug. 12, 1952. Reg. No. 51,193.

Pat. 2,606,961. Carrier Telegraph Repeater. Aug. 12, 1952. Reg. No. 51,194.

Pat. 2,607,010. Wave Guide Antenna System. Aug. 12, 1952. Reg. No. 51,195.

Pat. 2,607,015. Multicathode Glow Discharge Device. Aug. 12, 1952. Reg. No. 51,196.

Pat. 2,607,021. Gas Filled Discharge Device. Aug. 12, 1952. Reg. No. 51,197.

Pat. 2,607,030. Current Regulation. Aug. 12, 1952. Reg. No. 51,198.

Pat. 2,607,092. Clamp for Cylindrical Objects. Aug. 19, 1952. Reg. No. 51,199.

Pat. 2,607,216. Torsional Interferometer. Aug. 19, 1952. Reg. No. 51,200.

Pat. 2,607,219. Torque Measuring Tool. Aug. 19, 1952. Reg. No. 51,201.

Pat. 2,607,272. Composite Wave Plate for Light. Aug. 19, 1952. Reg. No. 51,202.

Pat. 2,607,281. Ventilating Fixture for Telephone Booths. Aug. 19, 1952. Reg. No. 51,203.

Pat. 2,607,502. Hand Truck. Aug. 19, 1952. Reg. No. 51,204.

Pat. 2,607,542. Magnetic Fluid Brake. Aug. 19, 1952. Reg. No. 51,205.

Pat. 2,607,827. Bridge Network. Aug. 19, 1952. Reg. No. 51,206.

Pat. 2,607,843. Remote Control and Supervisory System. Aug. 19, 1952. Reg. No. 51,207.

Pat. 2,607,848. Telegraph Keyboard Transmitter. Aug. 19, 1952. Reg. No. 51,208.

Pat. 2,607,850. Wave Guide Impedance Element. Aug. 19, 1952. Reg. No. 51,209.

Pat. 2,607,851. Mop-Up Equalizer. Aug. 19, 1952. Reg. No. 51,210.

Pat. 2,607,852. Telegraph Repeater. Aug. 19, 1952. Reg. No. 51,211.

Pat. 2,607,858. Electromechanical Transducer. Aug. 19, 1952. Reg. No. 51,212.

Pat. 2,607,859. Telephone Transmitter. Aug. 19, 1952. Reg. No. 51,213.

Pat. 2,607,887. Radio Telephone System. Aug. 19, 1952. Reg. No. 51,214.

Pat. 2,607,891. Translating Circuits Utilizing Glow Discharge Devices. Aug. 19, 1952. Reg. No. 51,215.

Pat. 2,607,892. Timing Circuit. Aug. 19, 1952. Reg. No. 51,216.

Pat. 2,607,901. Electronic Discharge Device. Aug. 19, 1952. Reg. No. 51,217.

Pat. 2,607,902. Gaseous Discharge Device. Aug. 19, 1952. Reg. No. 51,218.

Pat. 2,607,916. Light Controlled Channel Deviation Indicator. Aug. 19, 1952. Reg. No. 51,219.

Pat. 2,608,265. Ribbon-Type Microphone Diaphragm. Aug. 26, 1952. Reg. No. 51,220.

Pat. 2,608,539. Metallized Ceramic Coating Composition. Aug. 26, 1952. Reg. No. 51,221.

Pat. 2,608,597. Cage Assembly for Crystals. Aug. 26, 1952. Reg. No. 51,222.

Pat. 2,608,601. Capacitor. Aug. 26, 1952. Reg. No. 51,223.

Pat. 2,608,610. Transformer. Aug. 26, 1952. Reg. No. 51,224.

Pat. 2,608,611. Selenium Rectifier Including Tellurium and Method of Making It. Aug. 26, 1952. Reg. No. 51,225.

Pat. 2,608,616. Facsimile System. Aug. 26, 1952. Reg. No. 51,226.

Pat. 2,608,617. Television Converter System. Aug. 26, 1952. Reg. No. 51,227.

Pat. 2,608,619. Telegraph Hub Repeater. Aug. 26, 1952. Reg. No. 51,228.

Pat. 2,608,621. Magnetic Record Detector. Aug. 26, 1952. Reg. No. 51,229.

Pat. 2,608,623. Wave Transmission Amplifier. Aug. 26, 1952. Reg. No. 51,230.

Pat. 2,608,630. Relay. Aug. 26, 1952. Reg. No. 51,231.

Pat. 2,608,668. Magnetically Focused Electron Gun. Aug. 26, 1952. Reg. No. 51,232.

Pat. 2,608,674. Multicathode Glow Discharge Device. Aug. 26, 1952. Reg. No. 51,233.

Pat. 2,608,681. Voltage Regulation. Aug. 26, 1952. Reg. No. 51,234.

Pat. 2,608,718. Apparatus for Continuously Making Vulcanized Articles. Sept. 2, 1952. Reg. No. 51,235.

Pat. 2,608,727. Door. Sept. 2, 1952. Reg. No. 51,236.

Pat. 2,608,745. Soldering Apparatus for Piezoelectric Cryatals. Sept. 2, 1952. Reg. No. 51,237.

Pat. 2,608,757. Paper-Cutting Knife. Sept. 2, 1952. Reg. No. 51,238.

Pat. 2,608,854. Apparatus for Testing Connectors for Leakage. Sept. 2, 1952. Reg. No. 51,239.

Pat. 2,608,892. Apparatus for Supporting Cores in Toroidal Coil Winding Machines. Sept. 2, 1952. Reg. No. 51,240.

Pat. 2,608,920. Camera. Sept. 2, 1952. Reg. No. 51,241.

Pat. 2,609,049. Method of and Apparatus for Slitting Articles. Sept. 2, 1952. Reg. No. 51,242.

Pat. 2,609,171. Shock Mount for Relays. Sept. 2, 1952. Reg. No. 51,243.

Pat. 2,609,256. Ball Bearing. Sept. 2, 1952. Reg. No. 51,244.

Pat. 2,609,417. Retractile Cord and Method of Making It. Sept. 2, 1952. Reg. No. 51,245.

Pat. 2,609,419. Impedance Testing Apparatus. Sept. 2, 1952. Reg. No. 51,246.

Pat. 2,609,433. Perforating Recorder Signaling Device. Sept. 2, 1952. Reg. No. 51,247.

Pat. 2,609,435. Test Set for Measuring the Angle Represented by Synchro Voltages. Sept. 2, 1952. Reg. No. 51,248.

Pat. 2,609,436. Partition. Sept. 2, 1952. Reg. No. 51,249.

Pat. 2,609,445. Electronic Control Circuit for Recorders. Sept. 2, 1952. Reg. No. 51,250.

Pat. 2,609,447. Frequency Discriminator. Sept. 2, 1952. Reg. No. 51,251.

Pat. 2,609,451. Multiplex Telegraph System Utilizing Electronic Distributors. Sept. 2, 1952. Reg. No. 51,252.

Pat. 2,609,452. Multiplex Telegraph System Employing Electronic Distributor. Sept. 2, 1952. Reg. No. 51,253.

Pat. 2,609,453. Half Duplex Telegraph Repeater, Including Break Feature. Sept. 2, 1952. Reg. No. 51,254.

Pat. 2,609,454. Selecting and Lockout Circuit. Sept. 2, 1952. Reg. No. 51,255.

Pat. 2,609,455. Telephone System. Sept. 2, 1952. Reg. No. 51,256.

Pat. 2,609,456. Rotary Out-Trunk Switching Arrangement. Sept. 2, 1952. Reg. No. 51,257.

Pat. 2,609,461. High-Speed Contactor. Sept. 2, 1952. Reg. No. 51,258.

Pat. 2,609,464. Relay. Sept. 2, 1952. Reg. No. 51,259.

Pat. 2,609,498. Pulse Counting and Registration System. Sept. 2, 1952. Reg No. 51,260.

Pat. 2,609,508. Wave Generating Circuits. Sept. 2, 1952. Reg. No. 51,261.

Pat. 2,609,520. Cathode-Ray Tube. Sept. 2, 1952. Reg. No. 51,262.

Pat. 2,609,609. Gauge for Checking Parts of Cylindrical Articles. Sept. 9, 1952. Reg. No. 51,263.

Pat. 2,609,875. Cutting Apparatus. Sept. 9, 1952. Reg. No. 51,264.

Pat. 2,610,227. Measuring Effective Resistance. Sept. 9, 1952. Reg. No. 51,265.

Pat. 2,610,229. Continuity Test Apparatus. Sept. 9, 1952. Reg. No. 51,266.

Pat. 2,610,242. Impulse Counting Relay and System Therefor. Sept. 9, 1952. Reg. No. 51,267.

Pat. 2,610,275. Humidity Selector Switch. Sept. 9, 1952. Reg. No. 51,268.

Pat. 2,610,295. Pulse Code Modulation Communication System. Sept. 9, 1952. Reg. No. 51,269.

Pat. 2,610,297. Automatic Frequency Control Circuit. Sept. 9, 1952. Reg. No. 51,270.

Pat. 2,610,797. Temperature Control Apparatus. Sept. 16, 1952. Reg. No. 51,271.

Pat. 2,612,560. Electronic Telegraph Hub Type Repeater. Sept. 30, 1952. Reg. No. 51,272.

Pat. 2,612,561. Half-Duplex Telegraph Repeater. Sept. 30, 1952. Reg. No. 51,273.

Pat. 2,612,566. Magnetic Recording and Reproducing System. Sept. 30, 1952. Reg. No. 51,274.

Pat. 2,612,633. Multiplex Converter. Sept. 30, 1952. Reg. No. 51,275.

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Pat. 2,517,554. Method of and Device for Detecting Physical Quantities. Patented Aug. 8, 1950. This invention relates to a device and method for detecting the quantitative value of physical phenomena which are capable of generating or influencing electric currents, and involves the comparison of two or more physical quantities. The physical quantity sought to be determined may be detected by comparison with another physical quantity of the same or a different kind. The invention has many applications, and may, for example, be applied to photometers, spectrometers, colorimeters, and ionization gauges. (Owner) Joseph C. Frommer, 1525 Teakwood Ave., Cincinnati 24, Ohio. Group 36—13. Reg. No. 51,276.

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Pat. 2,566,690. Cathode-Ray Tube Bridge Unbalance Detector. Patented Sept. 4, 1951. This invention relates to circuits for detecting the presence or absence of alternating voltages and, more particularly, to supply deflection to cathode-ray tubes used for such detection. The invention is especially suited for the indication of the balance of a Wheatstone bridge or of another circuit which is supplied at its input terminals with a certain alternating voltage and delivers at its output terminals a voltage of substantially the same frequency. In the absence of balance the invention will indicate the direction in which the bridge has to be adjusted to approach balance. (Owner) Joseph C. Frommer, 1525 Teakwood Ave., Cincinnati 24, Ohio. Group 36—19. Reg. No. 51,277.

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Pat. 2,547,652. Picker Shaft Supporting Means. Patented Apr. 3, 1951. A bracket for supporting the center portion of each picker shaft of a loom, to prevent the springing, bending, or warping of the picker shaft which often cause shut-down or breakage of parts in an ordinary loom, with consequent imperfections in the cloth. The central supporting bracket, which may be built into the loom or sold as an attachment, is placed adjacent the point of impact of the rotating drive shaft arm against the operating shoe of the picker shaft. The bracket comprises a rectangular housing mounted on the end wall of the loom frame, having an open top, and cutaway portions to receive the picker shaft therethrough. Within the housing are mechanisms adapting the device to be self-aligning and to effect self-lubrication as the picker shaft is oscillated by the drive shaft of the loom. A cover is provided for the housing to contain the lubricant as it is splashed upwardly and outwardly over the provided bearings. (Owner) Adolph Millette, 868 Lonsdale Ave., Central Falls, R. I. Group 35—52. Reg. No. 51,278.

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Pat. 2,583,408. Sine-Bar Grinding Wheel Truing Device. Patented Jan. 22, 1952. Truing instrument may be used to accurately form any desired angle on grinding wheels with a minimum of effort. A horizontal shaft rotatably mounted in a frame carries a transversely movable tool bar provided with diamond points. A depending sine bar is fixed to the shaft, and a depending angle-setting arm is loosely mounted on the hub of the sine bar. The sine bar may be moved to bring a stud on its lower end into and out of engagement with opposite sides of the angle-setting member to rotate the shaft and swing the tool bar into various angular positions. A plurality of retractable rotary stop pins in the base of the frame may be selectively used in conjunction with the angle-setting arm to set the arm in various angular positions to meet the requirements of the more frequently used angles for grinding wheels. Interchangeable auxiliary elements are provided for use in conjunction with the sine bar and the stop pins so that a great variety of other angular settings may be quickly and accurately obtained. The tool bar may be reciprocated by turning a hand crank. (Owner) Leon Paul Black, 20 Lawton Ave., Cliffside Park, N. J. Group 35—41—43. Reg. No. 51,279.

# TRADE-MARKS

## OFFICIAL GAZETTE, JULY 28, 1953

[VOL. 672. NO. 4]

## ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 627,030. Anesite Company, Chicago, Ill. Filed Mar. 26, 1952.

**ANESITE**

For Extruded Thermoplastic Products—To-Wit, Rods, Sheet, Tubing, and Strips in Flat Pieces or in Rolls and Often Referred to in the Trade as Webbing, Said Tubing and Webbing Being Intended for Further Manufacture in the Industrial Arts Before Final Use.

Claims use since on or about Sept. 20, 1948.

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Ser. No. 629,904. Magnet Cove Barium Corporation, Bellaire, Tex. Filed May 19, 1952.

**CELL-O-SEAL**

The word "Seal" is disclaimed apart from the mark as shown.

For Cellophane Flakes for Use in Drilling Mud.

Claims use since Mar. 17, 1952.

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Ser. No. 632,540. Surpass Leather Company, Philadelphia, Pa. Filed July 14, 1952.




Applicant claims ownership of Registration No. 58,848.

For Leather for Use in the Manufacture of Shoes and Other Articles of Apparel—Namely, Belts and Handbags.

Claims use since May 28, 1952.

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Ser. No. 638,457. Edward C. Walker, doing business under the name and style of Kozak, Batavia, N. Y. Filed Nov. 21, 1952.

**SHAM-ET**

For Cellulose Sponges.

Claims use since Apr. 8, 1948.

Ser. No. 638,779. Allen Robbins, New York, N. Y. Filed Nov. 29, 1952.




No claim is made to the word "Box" apart from the mark shown on the drawing.

For Cut Flowers, Foliage, and Natural Flowers.

Claims use since June 1952.

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Ser. No. 639,473. Industrial Rubber Products, Inc., Des Moines, Iowa. Filed Dec. 15, 1952.

**COPRENE**

For Natural and Synthetic Air-Curing Liquid Rubber.

Claims use since Dec. 2, 1952.

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Ser. No. 640,133. The Singer Manufacturing Company, Elizabeth, N. J. Filed Dec. 29, 1952.



Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.

For Thermoplastic Material in the Form of Sheets and Strips.

Claims use since 1940.

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Ser. No. 640,678. Germain's, Inc., Los Angeles, Calif. Filed Jan. 13, 1953.

**12**

For Lawn Grass Seed.

Claims use since Dec. 18, 1952.

Ser. No. 640,679. Germain's, Inc., Los Angeles, Calif. Filed Jan. 13, 1953.

Aristocrat

For Lawn Grass Seed
Claims use since Dec. 18, 1952.

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Ser. No. 640,915. Frederick H. Cone & Company Incorporated, New York, N. Y. Filed Jan. 19, 1953.

FLEX CONE

For Synthetic Brush Filaments.
Claims use since Nov. 28, 1952.

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## CLASS 2

### RECEPTACLES

Ser. No. 579,463. Wolff Appliance Corp., Long Island City, N. Y. Filed May 24, 1949.

LACEY LEDGE

For Tissue Dispensing Boxes; Hampers; Baskets; Containers To Hold Cans of Cleansing Powder; Powder Boxes; Can With Holes To Hold Cotton; Dusting Powder Boxes; Soap Flakes Boxes; Containers for Bottles; Tumblers; Containers for Bowl Brush.
Claims use since March 1949.

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Ser. No. 621,147. Herb-Shelly, Inc., Farmington, Minn. Filed Nov. 13, 1951.

Herb Shelly's "RE-USABLE" PLASTIC STORAGE BAGS

Applicant disclaims, apart from the mark as shown, the words "Re-usable Plastic Storage Bags." The name "Herb-Shelly's" as used is a combination of two fictitious nickoames and does not identify any particular living individual known to the applicant.
For Plastic Food Bag.
Claims use since Oct. 24, 1950.

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Ser. No. 624,619. United Wallpaper, Inc., Chicago, Ill. Filed Feb. 6, 1952.

SANIMAID

For Moisture Proof Paper Cartons and Cups for General Use.
Claims use since Jan. 14, 1952.

Ser. No. 628,518. Beacon Plastics Corporation, Newton Highlands, Mass. Filed Apr. 23, 1952.

EGG-O-MATIC

The word "Egg" is disclaimed apart from the mark as shown in the drawing.
For Plastic Trays for Holding and Dispensing Eggs.
Claims use since Jan. 1, 1952.

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Ser. No. 631,413. Fruit Products Corporation, New York, N. Y. Filed June 19, 1952.

CHERRI-ANZA

Applicant disclaims the exclusive right to the use of the word "Cherri" separate and apart from the trademark as shown in the drawing. Applicant claims ownership of Registrations Nos. 503,633 and 549,212.
For Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, and Metal Foil.
Claims use since May 15, 1952.

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Ser. No. 631,999. Richmond Engineering Co., Inc., Richmond, Va. Filed June 30, 1952.

RECO

Applicant claims ownership of Registration No. 179,664.
For Metal Tanks, Specifically Oil, Gasoline, Butane, and Propane Storage Tanks, Tanks Capable of Being Transported on Flat Bed Trucks, Air Receiving Tanks, Hydro-Pneumatic Tanks, Water Tanks, and Insecticide Tanks.
Claims use since May 1, 1921.

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Ser. No. 632,486. Oneida Ltd., Oneida and Sherrill, N. Y. Filed July 12, 1952.

WHITE ORCHID

No registration rights are claimed herein to the use of an orchid in the pattern of the goods.
For Silverware or Tableware Storage Chests.
Claims use since May 14, 1952.

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Ser. No. 632,711. Arwell, Inc., Waukegan, Ill. Filed July 18, 1952.

RO-BAN

For Poison Feed Boxes for Rodents, Sold Empty.
Claims use since June 16, 1952.

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Ser. No. 643,186. Rassenfoss Bag Company, Glenview, Ill. Filed Mar. 5, 1953.

ZIP-LUXOR

Applicant claims ownership of Registration No. 568,756.
For Plastic Garment Storage Bag.
Claims use since on or about Dec. 12, 1952.



## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 642,176. John B. Stetson Company, Philadelphia, Pa. Filed Feb. 12, 1953.



For Purses, Bill Folds, Wallets, and Ladies' Handbags.
Claims use since Nov. 28, 1952.

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## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Ser. No. 567,493. Butler Brothers, Chicago, Ill. Filed Oct. 23, 1948.

HOMECREST

For Inside and Outside Ready Mixed House Paint and Varnish, Polish and Wax Used on Furniture, Floors, and Automobiles.
Claims use since 1941.

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Ser. No. 604,227. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950.

Pure-sure

For Chemically Treated Polishing Cloth, Chrome Polish, and Cleaner and Polish for Painted Surfaces, Cleaner and Wax for Painted Surfaces Possessing Polishing Properties.
Claims use since February 1945.

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Ser. No. 629,836. Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Filed May 17, 1952.

CEE BEE

For Corrosion Remover and Brightener, Aluminum Alloy Surface Cleaner and Fast Acting Brightener, All for Cleaning and Polishing Purposes.
Claims use since June 3, 1931.

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Ser. No. 634,252. The Gerson-Stewart Corporation Company, Cleveland, Ohio. Filed Aug. 21, 1952.

GRIP SAFE

For Floor Wax.
Claims use since January 1941.

Ser. No. 636,393. Harold L. Groves, doing business as Granitize Products Co., South Gate, Calif. Filed Oct. 14, 1952.

LIQUI-GLASS

No claim is made for the word "Glass" apart from the mark shown in the drawing.
For Polishing Compound.
Claims use since May 5, 1950.

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## CLASS 5

### ADHESIVES

Ser. No. 634,340. Rarolite Chemical Co. Inc., Raritan, N. J. Filed Aug. 22, 1952.

RAROLITE

The drawing is lined for the color red.
For Resin Adhesives—Namely, Urea Formaldehyde, Urea Melamine, and Alkyd Type Synthetic Resinous Adhesives, and Natural and Synthetic Rubber Adhesives.
Claims use since Oct. 1, 1946.

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Ser. No. 641,854. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Feb. 6, 1953.



The drawing is lined for the colors red, green, and black and the stippling shown represents shading. Applicant claims ownership of Registrations Nos. 549,226, 536,381, and others.
For Adhesive, Useful, for Example, for Adhering Rubber to Other Materials.
Claims use since at least as early as Dec. 15, 1952.

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## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 628,988. American Chain & Cable Company, Inc., Bridgeport, Conn. Filed May 1, 1952.

CAMPBELLENE

For Water Soluble Compound for Use as a Coolant in Cutting Operations Performed With Abrasive Wheels or Discs.
Claims use since Mar. 30, 1951.

Ser. No. 630,563. Allied Chemical & Dye Corporation, New York, N. Y. Filed June 2, 1952.

# ASA

For Organic Chemical Sold for Use as Antiskinning Agent for Compositions Containing Drying Oils or Resins.
Claims use since May 11, 1940.

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Ser. No. 631,466. Cenol Company, Inc., Chicago, Ill. Filed June 20, 1952.




The wording appearing on the drawing, except for the name "Cenol," is disclaimed separate and apart from the mark as shown. Applicant claims ownership of Registration No. 308,412.
For Moth Destroyer and Preventative.
Claims use since July 1, 1932.

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Ser. No. 632,158. Dan River Mills, Incorporated, Danville, Va. Filed July 5, 1952.

# X-2

For Reactive Organic Chemicals for Stabilizing Rayon Textile Fabrics.
Claims use since Mar. 7, 1952.

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Ser. No. 632,355. The Dow Chemical Company, Midland, Mich. Filed July 10, 1952.

# STYPHEN

For Aralkyl Phenol Mixture, Being a Non-Staining Liquid Antioxidant for Use Mainly in Rubber.
Claims use since Aug. 30, 1951.

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Ser. No. 632,699. The Societe Anonyme Societe Universelle de Produits Chimiques et d'Explosifs, Paris, France. Filed July 17, 1952.

## OXYBLOC

Applicant claims ownership of French Registration No. 405,409, dated Aug. 25, 1950.
For Products and Compositions Which Will Emit and Liberate Oxygen.

Ser. No. 635,052. Pennsylvania Refining Company, Butler, Pa. Filed Sept. 9, 1952.

# TSC OIL

No claim is made to the word "Oil" apart from the mark as shown.
For Self Emulsifying Highly Refined Petroleum Oil Used To Eliminate and Inhibit the Growth of Secondary Leaves on Tobacco Plants Commonly Referred to as "Suckers."
Claims use since May 13, 1952.

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Reg. No. 635,426. Nuodex Products Co., Inc., Elizabeth, N. J. Filed Sept. 18, 1952.

## CYCLODEX

For Catalyzer Useful in the Cyclization of Styrene-Butadiene Copolymers and Acrylonitrile Polymers, in Latex Form.
Claims use since Aug. 11, 1952.

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Ser. No. 635,846. Vince B. Nyhan, doing business as Vince B. Nyhan Co., Chicago, Ill. Filed Sept. 26, 1952.

## FORMOCLOR

Applicant claims ownership of Registration No. 197,186.
For Chemical for Household and Industrial Use Used as a Disinfectant, Germicide, Antiseptic, Sterilizer, and Deodorant.
Claims use since Nov. 29, 1921.

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Ser. No. 637,802. United States Radium Corporation, New York, N. Y. Filed Nov. 7, 1952.

## *UNDARK*

Applicant claims ownership of Registration No. 132,495.
For Self-Luminous Material, Such as Compounds Containing Zinc Sulfide and Radium.
Claims use since Oct. 17, 1919.

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Ser. No. 638,890. American Cyanamid Company, New York, N. Y. Filed Dec. 3, 1952.

## WILLOW GREEN

The word "Green" is disclaimed apart from the mark as shown.
For Pigment.
Claims use since Aug. 29, 1952.

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Ser. No. 639,099. Cela Landwirtschaftliche Chemikalien G. m. b. H., Ingelheim am Rhein, Germany. Filed Oct. 28, 1952.

## Nexa

Applicant claims ownership of German Registration No. 621,442, dated June 4, 1952.
For Insecticides for Household Use and Use on Animals and in Agriculture.



Ser. No. 639,411. Better Brushes, Incorporated, Palmer, Mass. Filed Dec. 13, 1952. (Sec. 2f.)

BETTER BRUSHES

Applicant claims ownership of Registration No. 206,542.
For Household Deodorizing Preparations and Moth Crystals.
Claims use since February 1932.

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Ser. No. 640,822. Thermoid Chemical Co., Trenton, N. J. Filed Jan. 15, 1953.

## FORTEX

For Reaction Product of Sulfur and a Mixture of Phenanthrenic and Vegetable Fatty Acids, Forming a Brown Viscous Oil at Ordinary Temperatures, Used as an Extender and Fortifier in the Production of Rubber Articles.
Claims use since May 2, 1952.

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Ser. No. 641,807. Strohmeyer & Arpe Company, New York, N. Y. Filed Feb. 5, 1953.

## KITAGUMI.

For Japan Waz.
Claims use since Jan. 7, 1927.

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Ser. No. 642,245. Raymond H. Starr, doing business as Koch Supplies, Kansas City, Mo. Filed Feb. 13, 1953.

## RAT KRAX



The word "Rat" is disclaimed apart from the mark as shown.
For Preparation to Kill Rats.
Claims use since Jan. 5, 1953.

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Ser. No. 643,990. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Mar. 20, 1953.

## NUFLO

For Acidity Stabilizing Compound for Use in the Dairy Industry.
Claims use since Aug. 9, 1951.

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Ser. No. 644,056. Oldbury Electro-Chemical Company, Niagara Falls, N. Y. Filed Mar. 23, 1953.

OLDBURY 1896

For Phosphorus Compounds, Chlorates, Perchlorates, Perchloric Acid, an Oxalic Acid.
Claims use since Dec. 15, 1952, as to the mark shown; and since 1896 as to "Oldbury."

Ser. No. 644,185. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Mar. 25, 1953.

SCOTCHLITE

The word "Brand" is disclaimed. Applicant claims ownership of Registrations Nos. 565,512, 559,533, and others.
For Chemical Composition for Thinning the Concentration of Color in the Graphic Arts Product Known as Process Paste.
Claims use since Feb. 7, 1952.

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Ser. No. 644,232. The General Tire & Rubber Company, Akron, Ohio. Filed Mar. 26, 1953.

GTR

For Chemicals and Chemical Mixtures, Solutions, and Dispersions for Use in Polymerizing, Compounding, Processing, and Stabilizing Rubbers, Plastics, and Resins.
Claims use since on or about June 15, 1952.

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Ser. No. 644,282. Godfrey L. Cabot, Inc., Boston, Mass. Filed Mar. 27, 1953.

## CAB-O-SIL

For Reinforcing Agent for Rubbers and Plastics, a Suspending Agent and Thickening in Various Oils and Water Solutions.
Claims use since Sept. 2, 1952.

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Ser. No. 644,288. Chapman Chemical Company, Memphis, Tenn. Filed Mar. 27, 1953.




The drawing is lined for brown and yellow; no claim is made to color. Applicant claims ownership of Registration No. 573,551.
For Agricultural Chemicals Comprising Liquid Insecticides, Powdered Insecticides, Herbicides, Parasiticides.
Claims use since Mar. 5, 1953.

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Ser. No. 644,431. Midwest Processing Company, Pampa, Tex. Filed Mar. 30, 1953.

MOJULENE

For Paraffin Solvent.
Claims use since on or about July 1, 1937.

Ser. No. 644,675. Marathon Corporation, Menasha, Wis. Filed Apr. 3, 1953.

MARACARB

For Modified Carbohydrate Compounds Obtained From Spent Sulfite Cooking Liquor.
Claims use since Feb. 20, 1953.

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Ser. No. 644,678. Mathieson Chemical Corporation, Baltimore, Md. Filed Apr. 3, 1953.



Applicant claims ownership of Registrations Nos. 555,423, 558,843, and 565,745.
For Ethylene Oxide, Ethylene Glycol, Diethylene Glycol, Triethylene Glycol, Dichloroethyl Ether, and Ethylene Dichloride.
Claims use since Feb. 18, 1953.

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## CLASS 7

### CORDAGE

Ser. No. 642,317. The Hob Stone Cordage Company, Charlton, Iowa. Filed Feb. 16, 1953.

BLUE BOW

The lining on the drawing denotes the color blue.
For Binder Twine and Baler Twine.
Claims use since Jan. 4, 1952.

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## CLASS 10

### FERTILIZERS

Ser. No. 633,334. Sheiden-Cole, Inc., Rockford, Ill. Filed July 31, 1952.

Green Gold

Applicant hereby disclaims the word "Green" apart from the combination mark disclosed in the drawing.
For Synthetic Resinous Soil Conditioning Agents.
Claims use since June 18, 1952.

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Ser. No. 642,701. Soil-Tone Corporation, Plymouth, N. C. Filed Feb. 24, 1953.

*Eysterite*

For Fertilizer.
Claims use since Dec. 11, 1952.

## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 610,422. A. B. Dick Company, Niles, Ill. Filed Feb. 23, 1951.



For Materials Used in Lithographic Printing—Namely, Inks, Stamp Pads, Typewriter Ribbons, and Carbon Paper.
Claims use since Oct. 27, 1950.

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## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 570,883. Pipeline Protection Company, Denver, Colo. Filed Dec. 20, 1948.

ParAnCor

For Corrosion Inhibiting Impregnated Fabric Tapes for Wrap-Around Application to Pipes or the Like.
Claims use since Oct. 21, 1948.

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Ser. No. 570,884. Pipeline Protection Company, Denver, Colo. Filed Dec. 20, 1948.

PROTECTION ParAnCor ECONOMY

For Corrosion Inhibiting Impregnated Fabric Tapes for Wrap-Around Application to Pipes or the Like.
Claims use since Oct. 21, 1948.

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Ser. No. 592,074. Continental Aluminum Corporation, South Kearny, N. J. Filed Feb. 7, 1950.

WALLMASTER

For Sidings of Aluminum.
Claims use since Jan. 6, 1950.

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Ser. No. 593,337. Henry J. Earnest, Chicago, Ill. Filed Mar. 3, 1950.

*EARNwood*

No claim is made to the exclusive use of the word "Wood" except in connection with the mark as shown.
For Fireproof Moldable Substance Formed of Ground Fibrous Material, Sodium Silicate, Powdered Chalk, and Quicklime, and for Construction Blocks and Sheets Suitable for Attachment to Studding Made From Said Substance.
Claims use since Jan. 23, 1950.



Ser. No. 599,668. The Union Sand and Supply Corporation, Painesville, Ohio. Filed June 23, 1950.

UNILITE

No claim is made for the block configuration in the mark apart from the mark as shown.
For Prepared Lightweight Concrete Building Blocks.
Claims use since May 5, 1950.

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Ser. No. 616,319. Herman H. Hettler Lumber Co., Chicago, Ill. Filed July 11, 1951.




This applicant disclaims the exclusive right to use the word "Lumber" or the representation of a board separate and apart from the mark shown. Applicant claims ownership of Registration No. 277,047.
For Lumber, Millwork, and Fabricated Lumber—Namely, Doors, Windows, Frames, Sashes, Casement Work, Siding, Interior and Exterior Finish Lumber, Moulding and Lumber of Special Shape and Size for Building and Display Purposes and (Wall) Cabinets, of a Non-Furniture type for Permanent Installation as Part of a Building.
Claims use since Mar. 11, 1930.

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Ser. No. 621,040. United States Gypsum Company, Chicago, Ill. Filed Nov. 8, 1951.

USG

For Basement Sash, Metal Arches, Steel Roof Deck, Wall Ties, Metal Edged Gypsum Plank, Metal Brackets Used in Wall Construction, Metal Lath, and Insulating Siding.
Claims use since October 1947.

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Ser. No. 623,696. Zonolite Company, Chicago, Ill. Filed Jan. 16, 1952.

INSULPAVE

For Construction Insulation Compound Consisting of a Mix of Expanded Vermiculite and Asphalt With a High Melting Temperature for Insulation in Industrial and Institutional Construction.
Claims use since Oct. 3, 1951.

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Ser. No. 629,012. Gate City Sash and Door Company, Fort Lauderdale, Fla. Filed May 1, 1952. (Sec. 2f.)

GATE CITY

For Window Units Including Parts Thereof and Accessories Therefor—Namely, Glass, Sash, Frames, and Hardware.
Claims use since Jan. 10, 1946.

Ser. No. 631,405. The Davis Plywood Corporation, Cleveland, Ohio. Filed June 19, 1952. (Sec. 2f.)

BESTLINE

Applicant claims ownership of Registration No. 507,732.
For Plywood Sheet Material Composed of Built-Up Wood, Consisting of Three or More Plies Banded Together With Adhesives and Faced With Native or Foreign Wood Veneer and for Solid Wood Used in Furniture Making, Construction of Dwellings, Standard Millwork, and Store Fixtures.
Claims use since June 1946.

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Ser. No. 631,776. Architectural Tiling Company, Inc., Keyport, N. J., and New York, N. Y. Filed June 26, 1952.

ATCO TILES

Applicant disclaims the word "Tiles" apart from the mark as shown.
For Ceramic and Clay Tiles.
Claims use since in or about 1935.

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Ser. No. 633,072. Plycrete Builders, Inc., Portland, Oreg. Filed July 25, 1952.

PLYCRETE

For Concrete Slabs for Forming Floors; Concrete Rings and Caps Used for Making Cesspools; Concrete Building Blocks; Concrete Pre-Cast Floor and Roof Joists; Concrete Window Frames; Concrete Door Lintels; and Concrete Boards.
Claims use since Nov. 1, 1947.

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Ser. No. 633,075. The Ric-Wil Company, Cleveland, Ohio. Filed July 25, 1952.




Applicant makes no claim to the representation of the steam line apart from the mark shown. The lining indicates shading. Applicant claims ownership of Registrations Nos. 91,379 and 291,423.
For Ceramic Tile for Underground Conduit Systems, Ceramic Sewer and Drain Pipe, Ceramic Culvert Pipe, Ceramic Tile Conduits and Heat Insulating Materials of Mineral, Animal, or Vegetable Fibers.
Claims use since Apr. 13, 1931.

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Ser. No. 634,612. Southwestern Portland Cement Company, Los Angeles, Calif. Filed Aug. 28, 1952.




No claim is made to the geographical term "El Paso, Tex." or to the descriptive word "Portland Cement Co."

and "Brand" apart from the mark shown. Applicant claims ownership of Registration No. 281,731.

For Cements—Namely, Portland Cement, Oil-Well Cement, Quick-Setting Cement, Masonry Cement, and Plastic Quick-Setting Cement for Forming Waterproof Concrete.

Claims use since on or about May 1909.

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Ser. No. 637,478. The Casement Hardware Company, Chicago, Ill. Filed Nov. 1, 1952.

**Win-Dor**

The term "Dor" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 238,522.

For Window and Door Units of the Jalousie Type Including Screen and Storm Sash Usable Therewith.

Claims use since Oct. 2, 1952.

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Ser. No. 638,105. The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Filed Nov. 14, 1952.

**COLOR-TEX**

The word "Color" is disclaimed apart from the mark shown.

For Asbestos-Cement Siding.

Claims use since on or about Sept. 9, 1952.

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Ser. No. 639,381. The Master Builders Company, Cleveland, Ohio. Filed Dec. 12, 1952.

**STEAROX**

Applicant claims ownership of Registration No. 299,571.

For Composition To Be Used as an Ingredient for Cement Mixes and Masonry Mortar Mixes To Increase Resistance to Weathering and Penetration by Water.

Claims use since Aug. 18, 1952.

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Ser. No. 640,465. The Master Builders Company, Cleveland, Ohio. Filed Jan. 7, 1953.

**MASTERQUICK**

Applicant claims ownership of Registrations Nos. 134,735, 203,180, and others.

For Asphalt Composition for Resurfacing and Patching Masonry and Concrete Floors.

Claims use since Nov. 9, 1950.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 612,896. Crawford Fitting Company, Cleveland, Ohio. Filed Apr. 20, 1951. (Sec. 2f.)

**Swagelok**

For Tube Couplings.

Claims use since Oct. 26, 1948.

Ser. No. 621,233. The Swartwout Company, Cleveland, Ohio. Filed Nov. 14, 1951. (Sec. 2f.)

**SWARTWOUT**

For Pump Control Valves and Governors, Feed Water Valves, Feed Water Regulating Valves, Differential Valves, Pilot Valves, Trip Valves, Relief Valves, Air Relief Valves, Pressure Operated Master Control Valves, Differential Pressure Master Regulators, Feed Water Regulators, Differential Pump Governors, Feed Water Heater Valves and Governors, Water Regulating Valves; Water Valve Accessories—Namely, Valve Air Locks, Valve Position Indicators and Manual-Automatic Selector Control Valve Panels; Pressure Control Valves, Liquid Level Control Valves, Drainage Control Valves, Flow Regulating Valves, Reducing Valves; Inverted Bucket Traps, Hydromatic Bucket Traps, Low Pressure Float Traps, Boiler Return and Lifting Traps, Steam Traps, Sediment Traps and Strainers; Exhaust Heads, Steam, Air and Oil Separators, Steam Desuperheaters and Steam Desuperheater Valves and Governors, and Parts for the Foregoing Items.

Claims use since Apr. 4, 1907.

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Ser. No. 624,850. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Feb. 12, 1952.

**UNITROL**

Applicant claims ownership of Registrations Nos. 361,576 and 551,279.

For Metal Valves and Cocks for Controlling Gaseous Fluids.

Claims use since Dec. 29, 1945.

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Ser. No. 639,494. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

*Stern Brothers*

For Shoe Racks and Hat Racks Designed To Be Affixed to a Wall or Other Supporting Surface.

Claims use since 1867.

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Ser. No. 640,350. George W. Dahl Company, Inc., Bristol, R. I. Filed Jan. 9, 1953.

**MONO-FOLD**

For Single Actuator Multiple Valve Units.

Claims use since September 1952.

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Ser. No. 642,092. Senco Products, Inc., Cincinnati, Ohio. Filed Feb. 11, 1953.

*Senco*

For Staples.

Claims use since June 1, 1951.



## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 635,830. Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Filed Sept. 26, 1952.



The trade-mark is composed of the letters "HVWM."

Applicant claims ownership of Registration No. 258,325.

For Metal Anodes for Electroplating.

Claims use since on or about Dec. 15, 1927.

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## CLASS 15

### OILS AND GREASES

Ser. No. 604,238. Trilla's Products, Inc., Chicago, Ill. Filed Sept. 29, 1950.

**PEP-MO**

The word "Pep" is disclaimed apart from the entire mark as shown.

For Additives for Lubricating Oils.

Claims use since Aug. 15, 1950.

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Ser. No. 633,005. Tide Water Associated Oil Company, New York, N. Y. Filed July 24, 1952.

**TYCOL**

**AJOURNAL**

Applicant claims ownership of Registrations Nos. 197,753, 514,193, and others.

For Lubricating Oil.

Claims use since Jan. 2, 1948.

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Ser. No. 634,752. Pelron Corporation, Lyons, Ill. Filed Sept. 2, 1952.

**PELRON**

For Cutting Compounds, Non-Abrasive Grinding Compounds, and Drawing Compounds, Quenching Oils, Tapping and Threading Compounds, and Honing Compounds.

Claims use since July 24, 1950.

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Ser. No. 638,312. Burton S. Price, doing business as Enzrust Co., Newton, Mass. Filed Nov. 19, 1952.

**DRIVOUT**

For Engine Fuel Additive for Use in Engine Fuel Supply Systems as a Dehydrant and Deposit-Preventing and Ridding Agent.

Claims use since on or about Oct. 19, 1949.

Ser. No. 641,578. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed Jan. 30, 1953.

**CHEVRON**

Applicant claims ownership of Registrations Nos. 364,683, 416,133, and 416,135.

For Starting Fuel for Compression-Ignited Engines Containing Volatile Organic Compounds Which Are Readily Ignitible by Compression at Low Temperatures.

Claims use since Nov. 19, 1947.

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Ser. No. 642,571. Republic Oil Refining Company, Pittsburgh, Pa. Filed Feb. 20, 1953.

**REPUBLIC**

For Gasoline and Lubricating Oil.

Claims use since in the year 1925.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 567,493. Butler Brothers, Chicago, Ill. Filed Oct. 23, 1948. (Classified in Class 4.)

See this serial number in Class 4 for goods and mark.

Claims use since 1941.

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## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 607,468. Alcon Laboratories, Inc., Fort Worth, Tex. Filed Dec. 9, 1950.

**ALCON**

For Ophthalmic Solutions.

Claims use since Sept. 25, 1945.

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Ser. No. 608,259. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed Dec. 30, 1950.

**TESTRYL**

For Hormonal Preparations for Use Where Male Sex Hormone is Indicated.

Claims use since Mar. 24, 1950.

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Ser. No. 615,845. Metropolitan Laboratories, Inc., Oyster Bay, N. Y. Filed June 28, 1951.

**METROTEIN**

For Injectable Medicament for the Treatment of Arthritis and Under Doctors' Prescriptions.

Claims use since November 1936.

Ser. No. 619,208. Alexis Moussalli, Paris (Seine), France. Filed Sept. 25, 1951.

## IODAPHYLINE

Applicant claims ownership of French Registration No. 394,510, dated May 25, 1949.

For Ampules, Tablets, and Drops for Oral Use in the Treatment of Heart Disease, Atherome, Diseases of the Circulatory System, Hypertension, Emphyseme, Bronchitis, Asthma and Arthritis, and Ampules for Muscular Injection and Rectal Suppositories.

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Ser. No. 623,672. Nopco Chemical Company, Harrison, N. J. Filed Jan. 16, 1952.

## NOP-CAP

Applicant claims ownership of Registrations Nos. 563,042, 554,718, and others.

For Calcium Pantothenate Containing Products for the Fortification of Foods and Feeds.

Claims use since Dec. 11, 1951.

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Ser. No. 625,285. McNeil Laboratories, Incorporated, Philadelphia, Pa. Filed Feb. 20, 1952.

## SUSTINEX

For Vitamin Preparation for Preventing Nutritional Disorders and Correcting Vitamin Deficiency.

Claims use since Nov. 17, 1950.

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Ser. No. 625,374. Tenny Pharmacy, Inc., New York, N. Y. Filed Feb. 21, 1952.

## PEDIS-N

For Preparation for the Treatment of Athlete's Foot.

Claims use since June 1951.

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Ser. No. 625,741. Kremers-Urban Company, Milwaukee, Wis. Filed Feb. 29, 1952.

## NITROL

For Vasodilator Designed for Use in Treatment of Raynaud's Disease, Senile Pre-Gangrene and Gangrene, Diabetic Gangrene, Chronic Frostbite, Chilblains, Arteriosclerotic Lesions of the Legs, Bed Sores, Buerger's Disease or Thromboangiitis Obliterans, and Poor Circulation in the Extremities.

Claims use since May 9, 1951.

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Ser. No. 625,775. The Wander Company, Chicago, Ill. Filed Feb. 29, 1952.

## ANGESAL

For Analgesic Preparation.

Claims use since Sept. 10, 1951.

Ser. No. 627,919. Allied Drugs, Inc., Hackensack, N. J. Filed Apr. 11, 1952.

## PYRA-PHED

For Anti-Histamine Medicine in Tablet Form for Relief in Asthma and Allergic Disorders and To Aid in the Increase of Blood Pressure.

Claims use since Jan. 15, 1951.

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Ser. No. 630,311. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed May 27, 1952.

## DIBENZIPEN

For Penicillin Preparation in Powder Form for Combating Organisms Responsible for Infectious Disease Processes.

Claims use since Jan. 28, 1952.

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Ser. No. 631,393. Park Adams Incorporated, Plainfield, N. J. Filed June 9, 1952.

## COMESOL

For Nose Drops, a Pharmaceutical Preparation.

Claims use since Dec. 21, 1943.

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Ser. No. 631,867. Wilfred N. Householder, doing business as Householder's Prescription Pharmacy, Portland, Oreg. Filed June 27, 1952.

## BoRo-Gene

The prescription symbol appearing in the mark is disclaimed.

For Hygienic Powder for Use as a Douche and Active Deodorizer.

Claims use since May 25, 1950.

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Ser. No. 634,809. T. J. Smith & Nephew, Limited, Hull, England. Filed Sept. 3, 1952.

## JELONET

Applicant claims ownership of British Registration No. 612,574, dated Aug. 15, 1950.

For Medicated Dressings.

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Ser. No. 636,824. Wilke Laboratories, West Plains, Mo. Filed Oct. 17, 1952.

## SULMIX

For Veterinary Preparations—Namely, Injectable Solutions for Treatment of Bacterial Diseases in Livestock; Poultry Drinking Water Solution for Treatment of Infectious Coryza, Cecal and Intestinal Coccidiosis, for Reducing the Mortality of Pullorum Disease in Chicks, and for Acute Fowl Cholera; Pink Eye Emulsion; Soluble Powder for Treatment of Bacterial Diseases in Livestock; Boluses for Treatment of Bacterial Diseases in Livestock; Boluses for Intro-Uterine Medication; and Calf Scour Tabs for Treatment of Infectious Scours, Pneumonia, Septicemia of Calves, and Infectious Enteritis and Pneumonia of Swine.

Claims use since Oct. 18, 1950.



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Ser. No. 638,428. Merrick Medicine Company, also doing business as the Merrick Medicine Co., Waco, Tex. Filed Nov. 21, 1952.




The head of the baby is a portrait of Albert W. Percy, Jr., the consent to use and register being given in Reg. No. 74,560. Applicant claims ownership of Registration No. 74,560.

For Astringent for Sour Stomach, Heartburn, Acid Eructations, Belching, Gas Flatulence, Wind Colic, and Simple Diarrhea Resulting From Dietary Intolerance.

Claims use since 1905 as to the mark shown; and since 1900 as to "Baby Percy."

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Ser. No. 638,728. Eli Lilly and Company, Indianapolis, Ind. Filed Nov. 28, 1952.

## PYRONIL

For Medicinal Preparation of 1-p-Chlorophenyl-2-Phenyl-4-Pyrrolidino Butene Used in the Treatment of Allergic Disorders.

Claims use since June 2, 1952.

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Ser. No. 639,422. Fellows Medical Manufacturing Company, Inc., New York, N. Y. Filed Dec. 13, 1952.

## RECTULES

For Preparation of Chloral Hydrate for Use Rectally as a Sedative.

Claims use since Nov. 7, 1952.

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Ser. No. 640,848. Commercial Solvents Corporation, New York, N. Y. Filed Jan. 16, 1953.

## B·Y-4

No claim is made to the exclusive use of the letter "B" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 361,855, 428,075, and others.

For Vitamin Concentrates Used as Ingredients of Poultry and Livestock Feeds.

Claims use since Dec. 15, 1952.

Ser. No. 641,210. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey. Filed Jan. 23, 1953.

## ARATRACIN

For Antibiotic Containing Preparation for Use in the Treatment of Diseases Affecting the Upper Respiratory Tract.

Claims use since Dec. 15, 1952.

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Ser. No. 641,211. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey. Filed Jan. 23, 1953.

## MYONIUM

For Medicinal Preparation Affecting Responses to Nervous Stimulation.

Claims use since Dec. 15, 1952.

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Ser. No. 641,212. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey. Filed Jan. 23, 1953.

## STRATACYTE

For Hematinic Preparation.

Claims use since Dec. 12, 1952.

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Ser. No. 641,278. Doho Chemical Corporation, New York, N. Y. Filed Jan. 26, 1953.

## LARYLGAN

For Preparation for the Relief of Throat Ailments.

Claims use since Dec. 1, 1952.

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Ser. No. 641,313. Malion Chemical Corp., New York, N. Y. Filed Jan. 26, 1953.

## DUALGAN

For Medicines for the Treatment of Rectal and Vaginal Disorders.

Claims use since Dec. 1, 1952.

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Ser. No. 641,533. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 29, 1953.

## Corthox

For Medicinal Preparation for the Treatment of Respiratory Disorders.

Claims use since Oct. 29, 1952.

Ser. No. 641,537. Armour and Company, Chicago, Ill. Filed Jan. 30, 1953.

**P.O.P.**

For Oxytocin Preparation Used as a Veterinary Medicine.
Claims use since Nov. 5, 1952.

Ser. No. 641,561. Mathieson Chemical Corporation, New York, N. Y. Filed Jan. 30, 1953.

**PLASMYKAY**

For Preparation for the Prevention and Treatment of Animal Scours.
Claims use since Oct. 8, 1952.

Ser. No. 641,570. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Jan. 30, 1953.

TRISERT

The drawing is lined for the color red.
For Medical Preparation—Namely, a Vaginal Insert Tablet for Treatment of Trichomonas and Other Vaginal Infections.
Claims use since Jan. 9, 1953.

Ser. No. 641,753. Wallace & Tiernan Products, Inc., Belleville, N. J. Filed Feb. 4, 1953.

**HALESTYN**

For Anesthetic in Liquid and Powder Form.
Claims use since Jan. 16, 1953.

Ser. No. 642,162. Protective Treatments, Inc., Dayton, Ohio. Filed Feb. 12, 1953.

**AEROPLAST**

For Liquid Plastic Bandage.
Claims use since Jan. 22, 1953.

Ser. No. 642,163. Protective Treatments, Inc., Dayton, Ohio. Filed Feb. 12, 1953.

*Aeroderm*

For Liquid Surgical Dressing.
Claims use since Nov. 3, 1952.

Ser. No. 642,528. Drug Specialties, Inc., Winston-Salem, N. C. Filed Feb. 20, 1953.

**DRUCEPTINE**

For Medical Preparation in Powder Form for Use in Female Hygiene.
Claims use since June 25, 1950.

Ser. No. 642,529. Drug Specialties, Inc., Winston-Salem, N. C. Filed Feb. 20, 1953.

**DRU-THIAPHEN**

For Medical Preparation in Elixir Form for Use as a Tonic and Vehicle in Administering a Variety of Other Medicines.
Claims use since June 25, 1950.

Ser. No. 642,531. Drug Specialties, Inc., Winston-Salem, N. C. Filed Feb. 20, 1953.

**LOBEPHEN**

For Medical Preparation in Tablet Form for Use in Treatment of Asthma and Hay Fever.
Claims use since Sept. 1, 1948.

## CLASS 19

## VEHICLES

Ser. No. 476,589. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania. Original filed, act of 1905, Nov. 17, 1944; amended to application under act of 1946, Principal Register, June 23, 1949. (Sec. 2f as to "Jeep.")

**JEEP JUNIOR**

No claim is made to the word "Junior" apart from the mark as shown. Applicant claims ownership of Registration No. 526,175.
For Automobiles and Structural Parts Thereof.
Claims use since Nov. 2, 1944, as shown; and since about Nov. 20, 1940, as to "Jeep."

Ser. No. 612,535. Luis R. Fuertes, doing business under the name of Sharktoon Boats Manufacturing Co., San Juan, Puerto Rico. Filed Apr. 12, 1951.

*Sharktoon*

For Pleasure Boats.
Claims use since Oct. 2, 1950.

Ser. No. 613,200. Fern A. Strawsine, doing business as Strawsine Manufacturing Company, Corunna, Mich. Filed Apr. 26, 1951.

**AIR CHIEF**

Applicant disclaims the word "Air" apart from the mark as shown.
For Trailer Coach All Weather Roof Ventilators With or Without Motor and/or Fan.
Claims use since Dec. 6, 1950.

Ser. No. 620,508. Kingston Products Corporation, Kokomo, Ind. Filed Oct. 26, 1951. (Sec. 2f.)

KINGSTON

For Automobile Heaters.
Claims use since 1921.



Ser. No. 632,069. Arnold, Schwinn & Co., Chicago, Ill. Filed July 2, 1952.

**VARSITY**

For Bicycles.
Claims use since June 16, 1952.

Ser. No. 635,641. Ford Motor Company Limited, London, England. Filed Sept. 23, 1952.

*Thames*

For Transportation Vehicles—Namely, Station Wagons, Horse Vans, Automotive Trucks, Refuse Vehicles, Tank Vehicles, Tractor-Trailer Combinations, Trailers, Semi-Trailers and Trucks, Tractors, and Structural Parts of Such Transportation Vehicles.
Claims use since on or about March 1939.

Ser. No. 642,364. North American Aviation, Inc., Los Angeles, Calif. Filed Feb. 17, 1953.

*Sabre Jet*

Applicant disclaims the generic term "Jet" separate and apart from the mark as shown in the drawing.
For Aircraft Designated as Jet Airplane.
Claims use since November 1950.

## CLASS 21

## ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 565,770. The A. C. Gilbert Company, New Haven, Conn. Filed Sept. 24, 1948. (Sec. 2f.)

**Polar Cub**

Applicant claims ownership of Registrations Nos. 246,624, 123,991, and 244,835.
For Hand Held Electrical Appliances Adapted To Be Maneuvered Manually for Application to Material To Be Treated Namely, Hand Held Electrical Appliances Equipped With an Air Outlet Nozzle, and Containing an Electric Motor Driven Fan Forcing Air Therethrough With or Without an Electric Heating Element to Warm Such Air.
Claims use since Jan. 1, 1923.

Ser. No. 565,771. The A. C. Gilbert Company, New Haven, Conn. Filed Sept. 24, 1948. (Sec. 2f.)

**GILBERT**

Applicant claims ownership of Registrations Nos. 302,126, 137,237, and 301,576.
For Hand Held Electrical Appliances Adapted To Be Maneuvered Manually for Application to Material To Be Treated—Namely, Hand Held Electrical Agitators for Miscible Substances and Appliances Equipped With an Air Outlet Nozzle, and Containing an Electric Motor Driven Fan Forcing Air Therethrough With or Without an Electric Heating Element To Warm Such Air.
Claims use since Aug. 12, 1931.

Ser. No. 581,199. L. Frank Markel & Sons., Norristown, Pa. Filed June 28, 1949.

FLEXITE

For Extruded Plastic Tubings, Used as Electrical Insulation on Wires and Conduits on Apparatus and Equipment.
Claims use since Jan. 2, 1949.

Ser. No. 599,384. National Poultry Equipment Company, Seattle, Wash. Filed June 19, 1950.

**MAGIC EGG CLEANER**

The mark consists of the word "Magic" and the applicant disclaims the exclusive right to use, or the right to register the words "Egg Cleaner," as shown in the drawing, apart from the mark as a whole.
For Electrically Driven Egg Cleaners—Namely, the Sander or Brush Type, the Manually Tended Type, and the Feed-Through Type; and Egg Candling Lights.
Claims use since March 1932.

Ser. No. 619,315. Donald E. Stem, doing business under the name of Columbia Engineering Service Co., San Francisco, Calif. Filed Sept. 27, 1951.

CESCO

For Magnets, Permanent Magnets and Magnetic Traps for Food Processing Lines and the Like, Magnetic Ducts, Magnetic Pulleys, Magnetic Light Can Eliminators, Magnetic Sweepers, Magnetic Plates.
Claims use since Jan. 11, 1946.

Ser. No. 625,384. Aircraft Transformer Corporation, Matawan, N. J. Filed Feb. 23, 1952.

**FORMFLEX**

For Insulatory Fitted Coverings Formed of Elastomer Material for Use on Transformers and Related Electrical Units.
Claims use since Jan. 31, 1952.

Ser. No. 625,862. Nuclear Products Company, Costa Mesa, Calif. Filed Mar. 3, 1952.

**staticmaster**

For Probes and Brushes With Ionizing Means for Causing the Dissipation of Static Electric Charges.
Claims use since Oct. 27, 1949.

Ser. No. 626,402. Nashua Gummed and Coated Paper Company, Nashua, N. H., now, by change of name, Nashua Corporation. Filed Mar. 13, 1952. (Sec. 2f as to "Tay-per.")

THE NATIONAL ELECTRIC TAY-PER

The word "Electric" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 231,597, 232,741, 300,438, and 301,245.

For Electric-Motor Driven and Electrically Controlled Machines for Dispensing Adhesively Conditioned Lengths of Paper and/or Fabric Tape for Package and Container Sealing, Wrapping, Securing, Labelling and the Like Purposes as in Shipping Rooms and Industrial Plants.

Claims use since Nov. 23, 1951.

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Ser. No. 627,072. Morris Levy, doing business as The Faith Co., Philadelphia, Pa. Filed Mar. 26, 1952.

SENTINEL

AUTOMATIC MANUAL

The words "Automatic" and "Manual" are disclaimed apart from the mark as shown.

For Electrical Fire Alarm Signal Stations Having Breakable Glass Panels Held in Place by Fusible Means and Which Panels Are Released Upon Melting of the Fusible Means Due to Abnormal Heat.

Claims use since on or about Feb. 11, 1952.

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Ser. No. 627,585. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Filed Apr. 4, 1952.

LECTRO L&H HOST

Applicant claims ownership of Registration No. 404,667.

For Electric Ranges, and Electric Water Heaters.

Claims use since Sept. 9, 1949.

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Ser. No. 630,613. Peters & Russell, Inc., Springfield, Ohio. Filed June 2, 1952.

WINKIES

For Automobile Headlight Shields.

Claims use since Feb. 4, 1951.

Ser. No. 632,452. Stenor Limited, Richmond, England. Filed July 11, 1952.

WELDMASTER

Applicant claims ownership of British Registrations Nos. 1644,354, dated Jan. 30, 1946, and No. 1671,997, dated Aug. 18, 1948.

For Electrically Heated Vulcanizing Machines, Apparatus and Parts Therefor.

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Ser. No. 632,783. Gould-National Batteries, Inc., St Paul, Minn. Filed July 19, 1952.

BiPLAK

For Separators for Storage Batteries.

Claims use since Mar. 26, 1952.

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Ser. No. 634,503. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed Aug. 26, 1952.

PLAQOHM

For Electrical Resistors.

Claims use since June 16, 1952.

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Ser. No. 634,683. Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo. Filed Aug. 30, 1952.

EASY ON THE EYES EZ1 LIGHTING PRODUCTS

The words "Easy on the Eyes" and "Lighting Products," and the representation of the lamp are disclaimed apart from the mark as shown. The drawing is lined for shading only.

For Electrical Lighting Fixtures.

Claims use since Aug. 1, 1940.

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Ser. No. 635,831. Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Filed Sept. 26, 1952.



The trade-mark is composed of the letters "HVWM."

Applicant claims ownership of Registration No. 258,325.

For Apparatus for Electroplating, Anodically Treating, Electrocleaning, Electropickling, Electroetching, and Electropolishing.

Claims use since on or about Dec. 15, 1927.



Ser. No. 639,596. Swivelier Company, Inc., New York, N. Y. Filed Dec. 16, 1952.

SWIVELIER LITE-SAVER

The words "Lite-Saver" are disclaimed apart from the trade-mark as shown.

For Electrical Lighting Fixtures and Parts Thereof.

Claims use since Oct. 1, 1951.

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Ser. No. 640,447. Eureka Williams Corporation, Bloomington, Ill. Filed Jan. 7, 1953.

Roto-Matic

For Electric Vacuum Cleaners.

Claims use since June 1952.

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## CLASS 22

## GAMES, TOYS, AND SPORTING GOODS

Ser. No. 638,058. Adolph Blaich, Incorporated, San Francisco, Calif. Filed Nov. 14, 1952.

ABCO

For Fishing Equipment—Namely, Rods, Reels, Lines, Hooks, Flies, Artificial Lures, Preserved Baits, Spoons, Spinners, Leaders, Boxes, Nets, Plugs, Traps, Creels, Seines, and Sinkers; Archery Equipment—Namely, Arm Guards, Arrows, Bows, Quivers, and Targets; Badminton Equipment—Namely, Nets, Rackets, Sets, and Shuttlecocks; Baseball Equipment—Namely, Baseballs, Bases, Bats, Bat Bags, Masks, and Mitts; Boxing Equipment—Namely, Boxing Gloves, Skip Ropes, Striking Bags, Striking Bag Bladders, Teeth Protectors, and Training Bags; Basketball Equipment—Namely, Basketballs, Eye Glass Protectors, Goals, Umpire Horns, Goal Nets, and Whistles; Football Equipment—Namely, Footballs, Chin Straps, Cleats, Helmets, Nose Guards, Shoulder Pads, and Thigh Guards; Games—Namely, Croquet Sets and Balls, Darts and Dart Boards, Deck Tennis Ring, Hand Ball, Horseshoe, Paddle Tennis, Table Tennis, and Tether Ball; Golf Equipment—Namely, Bags, Balls, Carts, Clubs, and Head Covers; Softball Equipment—Namely, Softballs, Bases, Bats, Bat Bags, Gloves, Masks, and Mitts; Swim Equipment—Namely, Beach Balls, Duck Feet, Swim Fins, Water Toys, and Water Wings; Tennis Equipment—Namely, Tennis Balls, Nets, and Rackets; and Track and Gym Equipment—Namely, Mats, Discus, Putting Shots, Relay Batons, and Spikes.

Claims use since Mar. 1, 1951.

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Ser. No. 644,237. The Kendall Company, Boston, Mass. Filed Mar. 26, 1953.

Miss Curity

Applicant claims ownership of Registrations Nos. 103,242, 284,697, and others.

For Play Nurse First Aid Kit.

Claims use since Mar. 3, 1953.

Ser. No. 645,978. B. F. Gladding & Company, Inc., South Otselic, N. Y. Filed Apr. 27, 1953.

BEACH COMBER

For Fishing Lines.

Claims use since during September 1949.

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Ser. No. 646,715. Airex Corporation, New York, N. Y. Filed May 11, 1953.

BEACHCOMBER

For Fishing and Spinning Reels, Fishing and Spinning Rods, Fishing Plugs, Spinners, Lures, and Artificial Bait for Fish.

Claims use since Aug. 19, 1952.

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## CLASS 23

## CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 538,105. Denver Equipment Company, Denver, Colo. Filed Oct. 17, 1947.

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Applicant claims ownership of Registrations Nos. 233,332 and 238,974.

For Mining and Mill Machinery and Equipment—Namely, Agitators: Amalgamation Equipment—Namely, Gold Amalgamators, Amalgamator Plates, Ball Mills, Grinding Balls, Mine Cages, Automatic Landing Chairs of the Mine Skip Type, Classifiers, Concentrators, Combined Conditioner and Agitator Units, Crushers, Crushing Rolls, Dewaterers, Wet Reagent Distributors, Placer Drills, V-Rope and Vertical Worm Gear Drives, Belt-Driven Bucket Elevators, Emulsifiers, Gasoline Engines, Ore Feeders, Reagent Feeders, Froth Flotation Cells and Machines, Grizzly Bars, Mechanical Hoists, Mineral Jigs, Portable and Stationary Ore Reduction Mills, Pebble Mills, Portable and Trommel-Jig Placer Plants, Cyanide Precipitation Plants, Diaphragm, Suction-Pressure and Centrifugal Sand and Water Pumps, Rod Mills, Grinding Rods, Automatic and Manual Ore and Pulp Samplers, Spiral, Trommel, and Vibrating Screens, Sheave Wheels, Speed Reducers, Concentrating Tables, Low Head and Truss Type Thickeners, Tube Mills, Turntables, and Mechanical Gold Pans.

Claims use since Feb. 8, 1927.

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Ser. No. 540,957. American Hoist & Derrick Co., St. Paul, Minn. Filed Nov. 13, 1947. (Sec. 2f as to "American.")

AMERICAN GENERAL PURPOSE

The words "General Purpose" are disclaimed apart from the mark as shown.

For Single and Multiple Drum Hoists and Drums Therefor for Employment in the Field of Commercial Activity, Commonly Known as the Crane, Hoist, and Derrick Field, Comprising the Manufacture, Sale, and Distribution of Cranes, Winches, Derricks, Hoisting Equipment, and Material Handling Equipment Adapted for Use in Construction Projects, Industrial Plant Operation, and Loading Cargo From and to Common Carriers.

Claims use since on or about Nov. 25, 1944, as to the mark shown; and since 1891 as to the word "American."

Ser. No. 551,703. Ekco Products Company, Chicago, Ill. Filed Mar. 11, 1948. (Sec. 2f.)

STA-BRITE

For Kitchen and Table Knives, Forks, and Spoons, Made of Base Metal.
Claims use since Feb. 1, 1921.

Ser. No. 586,293. Mason City Tent and Awning Co., Mason City, Iowa. Filed Oct. 14, 1949.

Kozy Kab

No claim is made to the word "Kab" apart from the mark as shown.
For Fitted Canvas Cover for Tractors.
Claims use since Aug. 10, 1949.

Ser. No. 623,524. Skrebba-Werk, Kommanditgeselischaft, Lahr/Schwarzwald, Germany. Filed Oct. 9, 1951.



Applicant claims ownership of German Registration No. 269,519, dated Aug. 12, 1921.
For Stapling Machines, Staplers, Tacking Hammers, Staple Extractor, and Stationery Punches Combined With Reinforcing Ring Applicators.

Ser. No. 627,596. Park Green & Company Limited, London, England. Original filed, act of 1946, Supplemental Register, Apr. 4, 1952; amended to application, Principal Register, June 5, 1953.

"Peter Piper"

The name "Peter Piper" is the name of the fictitious character in the Mother Goose nursery rhyme. Applicant claims ownership of British Registration No. B693,497, dated Nov. 1, 1950.
For Domestic Table Pepper Mills.

Ser. No. 629,070. Aerofall Mills Limited, Toronto, Ontario, Canada. Filed Apr. 30, 1952.

AEROFALL MILLS

The applicant's name "Aerofall Mills Limited" is disclaimed apart from the mark as a whole. Applicant claims ownership of Canadian Registration No. N. S. 159/40,715, dated Mar. 10, 1952.
For Mineral Crushing and Screening Plant Comprising Grinder, Concentrator, Classifier and Separator, and Parts Thereof.

Ser. No. 632,423. General Motors Corporation, Detroit, Mich. Filed July 11, 1952.

OLDSMOBILE ROCKET

Applicant claims ownership of Registration No. 415,799.
For Automobile Engines.
Claims use since Nov. 16, 1948.

Ser. No. 634,658. The Rotareaed Corporation, Bronxville, N. Y. Filed Aug. 29, 1952.




Applicant claims ownership of Registration No. 531,610.
For De-Aeration Apparatus Used in the Paper Industry for the Removal by Vacuum of Air From Paper-Making Constituents.
Claims use since on or about Mar. 31, 1947.

Ser. No. 640,477. Tec-Imports, Van Nuys, Calif. Filed Jan. 7, 1953.




For Open-Ended, Ratchet, Plug, Torque, and Pipe Wrenches.
Claims use since Oct. 20, 1952.

Ser. No. 642,093. Senco Products, Inc., Cincinnati, Ohio. Filed Feb. 11, 1953.

Senco

For Staplers and Pneumatic Tackers.
Claims use since June 1, 1951.

## CLASS 25

## LOCKS AND SAFES

Ser. No. 569,971. Gabriel D. Haver, Chula Vista, Calif. Filed Dec. 4, 1948. (Sec. 2f.)




For Locking Devices—Namely, Key Operated Adjustable Grip-Type Lock.
Claims use since July 12, 1944.



## CLASS 26

## MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 603,713. Contina Bureaux-und Rechenmaschinen-Fabrik Aktiengesellschaft, Mauren, Liechtenstein. Filed Aug. 30, 1950.

CURTA

Applicant claims ownership of Principality of Liechtenstein Registration No. 210, dated Oct. 5, 1949.
For Calculating Machines, Go and No-Go O. D. (Outside Diameter) Gauges, Cross Gauges, Measuring Legs and Measuring O. D. Gauges, Limit I. D. (Inside Diameter) Gauges, Special Gauges for Disc-Shapes and Angular Shapes, Hair Line Gauges, Triangular and Square Edge Gauges.

Ser. No. 609,312. Pierce Laboratory, Inc., Raritan, N. J. Filed Jan. 26, 1951. (Sec. 2f.)

Pierceway

Applicant claims ownership of Registrations Nos. 425,359 and 540,779.
For Thermostats.
Claims use since Oct. 3, 1941.

Ser. No. 609,864. The Kalart Company Inc., Plainville, Conn. Filed Feb. 9, 1951. (Sec. 2f.)

MULTIFLASH

Applicant claims ownership of Registration No. 422,688.
For Camera Attachments and Accessories—Namely, Battery-Capacitor Devices for Setting Off One or More Flash Bulbs and Including Reflectors, Relays, Connecting Cords, Actuating Switches, Battery and Capacitor Castings for the Aforesaid Devices, the Said Devices Being Sold as a Unit, Extension Units Including a Flash Bulb Socket for Connection to a Battery-Capacitor Master Unit, a Test Light for Testing the Condition of the Circuits of the Aforesaid Units by the Illumination of Said Test Light, and Synchronizers for Synchronizing Said Units With a Camera Shutter.
Claims use since January 1935.

Ser. No. 620,705. Henry Wild Surveying Instruments Supply Company of America, Inc., Brooklyn, N. Y. Filed Oct. 30, 1951. (Sec. 2f.)

WILD
HEERBRUGG

For Microscopes, Telescopes, Chronographs, Barometers, Drafting Instruments—Namely, Drawing Instrument Sets and Individual Parts Thereof, Namely, Ruling Pens, Spring Bows, Dividers, Drop Compasses, Extension Bars, Surveying Instruments—Namely, Levels, Leveling Rods, Theodolites and Parts Thereof, Auto-Reducing Tachometer Rods and Parts Thereof, Plane Table Portable Field Sets Consisting of a Carrying Case Having an Alidade, Plane-Table, Tribrach, Stand, Topographical Folding Staff, and Surveying Instrument Parts, Pentagonal Prisms, Glass Scales; and Optical Instruments—Namely, Magnifying and Reducing Lenses, Hunters' Range Finders, Cathetometers and Parts Thereof, Microscope Lamps and Parts Thereof, Photomicrographic Cameras and Parts Thereof, Plane Surface Testing Instruments, Aerial Photogrammetric Surveying Cameras and Parts Thereof, Military Aircraft Surveying Cameras and Parts Thereof, Military Optical Instruments—Namely, Range Finders, Telemetric Instruments and Parts Thereof and Calculators Therefor, Panoramic and Ballistic Cameras and Parts Thereof.
Claims use since Nov. 1, 1932.

Ser. No. 623,780. Surveyor's Service Company, Los Angeles, Calif. Filed Jan. 18, 1952.

SERVCO

For Surveying Instruments—Namely, Transits, Levels, Plane Table Alidades, Theodolites, Transit-Levels, Dumpy Levels, Aircraft Jig Collimators, Instrument Stands, Lateral Adjusters, Leveling Rods and Targets, Elevation Rods, Plumb Bobs.
Claims use since Sept. 15, 1939.

Ser. No. 623,868. Bear Manufacturing Company, Rock Island, Ill. Filed Jan. 22, 1952.

Telaliner

For Device Comprising Essentially a Platform, an Aligning Mechanism, and a Viewing Screen for Testing and Checking Wheel Alignment of Automotive and Other Vehicles Propelled on Wheels.
Claims use since Dec. 21, 1951.

Ser. No. 624,380. American Viscose Corporation, Philadelphia, Pa. Filed Feb. 1, 1952.

MECHANICHROME

For Colored Photographic Film.
Claims use since Jan. 18, 1952.

Ser. No. 633,614. Galvanic Products Corporation, Valley Stream, N. Y. Filed Aug. 8, 1952.

Selectester

For Rectifier Testers for Electrical Rectifiers That Operate Without an External Power Source; the Tester Operating by Electrical Resistance Measurements.
Claims use since July 24, 1952.

Ser. No. 638,466. Autosphere Corporation, New York, N. Y. Filed Nov. 22, 1952.

PERFOMETER

The term "Meter" is disclaimed apart from the mark as shown.
For Apparatus for Testing the Operating Characteristics Including Acceleration and Deceleration of a Vehicle.
Claims use since Nov. 6, 1952.

Ser. No. 640,825. Vitro Corporation of America, New York, N. Y. Filed Jan. 15, 1953.

FLOWTRON

For Magnetic Induction Flowmeters Including Auxiliary Equipment Therefor—Namely, Flowtubes, Amplifiers, and Power Supplies, Sold as Units.
Claims use since Aug. 25, 1952.

Ser. No. 640,959. Photoptic Import Corp., New York, N. Y. Filed Jan. 19, 1953.

ARRI

For Photographic Cameras and Accessories—Namely, Rewinding-Table, Splicing Bench, Film Clip, Shoulder Support, Film Meter, Film Gate, Tripod, Developing Machines, and Printers.
Claims use since October 1951.

Ser. No. 640,960. Photoptic Import Corp., New York, N. Y. Filed Jan. 19, 1953.

ARRIFLEX

For Photographic Cameras and Accessories—Namely, Rewinding-Table, Splicing Bench, Film Clip, Shoulder Support, Film Meter, Film Gate, Tripod, Developing Machines, Printers.
Claims use since October 1951.

## CLASS 27

### HOROLOGICAL INSTRUMENTS

Ser. No. 614,292. Eastern Art Products, Chicago, Ill. Filed May 24, 1951.

*Midnight Jewel*

For Casings and Frames for Clocks.
Claims use since Dec. 27, 1949.

Ser. No. 633,467. Meyer Robbin, doing business as Robbin Products, Los Angeles, Calif. Filed Aug. 4, 1952.

TAG

For Wrist Watches.
Claims use since June 26, 1952.

Ser. No. 634,499. Stolz Freres, S. A. Fabrique D'Horlogerie Angelus, Le Locle, Switzerland. Filed Aug. 26, 1952.

*Chronodato*

Applicant claims ownership of Registratioon No. 438,349.
For Watches, Chronometers With Automatic Calendar.
Claims use since Dec. 14, 1942; and use in commerce between foreign nations and the United States since Dec. 14, 1942.

Ser. No. 641,404. Vendome Watch Vve M. Gurtner, Corcelles, Switzerland. Filed Jan. 27, 1953.

VW

Applicant claims ownership of Swiss Registration No. 115,425, dated May 1, 1946.
For Watches and Parts of Watches.

Ser. No. 642,960. Emil Leichter Watch Company Inc., New York, N. Y. Filed Mar. 2, 1953.

PSS

For Watches, Watch Springs, and Parts Thereof.
Claims use since Dec. 15, 1952.

Ser. No. 644,033. Ludwig Hummel, doing business as Durowe Deutsche Uhrenrohwerke L. Hummel & Co., Pforzheim, Germany. Filed Mar. 23, 1953.

D

Applicant claims ownership of German Registration No. 626,033, dated Sept. 8, 1952.
For Clocks, Watches, Watch Movements, and Parts Thereof.

Ser. No. 644,278. Bulova Watch Company, Inc., New York, N. Y. Filed Mar. 27, 1953.

Jet

For Watches—Namely, Wrist or Strap Watches.
Claims use since Mar. 5, 1953.

Ser. No. 644,280. Bulova Watch Company, Inc., New York, N. Y. Filed Mar. 27, 1953.

Saber Jet

For Watches—Namely, Wrist or Strap Watches.
Claims use since Mar. 5, 1953.

Ser. No. 644,544. Cyma Watch Co., Inc., New York, N. Y. Filed Apr. 1, 1953.

TELEDATE

For Watches and Clocks.
Claims use since Mar. 9, 1953.



Ser. No. 644,710. Amida S. A., Grenchen, Switzerland. Filed Apr. 6, 1953.

AMIDA

Applicant claims ownership of Swiss Registration No. 114,302, dated Feb. 26, 1946.
For Watches and Parts of Watches.

Ser. No. 645,647. Hampden Watch Company, Chicago, Ill. Filed Apr. 21, 1953. (Sec. 2f.)

Douglas

Applicant claims ownership of Registration No. 419,421.
For Watches.
Claims use since June 30, 1936.

## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 615,391. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J. Filed June 19, 1951.

MONTE CRISTO

For Wrist Watch Bands.
Claims use since May 25, 1951.

Ser. No. 631,081. The Wardens and Commonalty of the Mystery of Goldsmiths of the City of London, London, England. Filed June 11, 1952. CERTIFICATION MARK.



Applicant claims ownership of British Registration No. 401,938, dated Mar. 16, 1920.
For Silver Wares Manufactured in the United Kingdom and Sent to the Office of Us, the Applicants, To Be Assayed and Hall-Marked.
Claims use since 1300 and use in commerce between Great Britain and the United States since 1821.

Ser. No. 639,031. Foster Metal Products Incorporated, Attleboro, Mass. Filed Dec. 5, 1952. (Sec. 2f as to "Foster.")




For Jewelry—Namely, Expansion Bracelets, Identification Bracelets, Watch Attachments, Watch Idents, and Lockets.
Claims use since Mar. 6, 1951; and since December 1937 as to "Foster."

Ser. No. 643,205. Blancard & Company, Inc., New York, N. Y. Filed Mar. 6, 1953.

Royal Prince

For Finger Rings.
Claims use since June 15, 1950.

Ser. No. 644,021. The Elmore Silver Co., Inc., Meriden, Conn. Filed Mar. 23, 1953.

"RANCHOUSE"

For Sterling Silver Hollowware.
Claims use since on or about Dec. 9, 1952.

Ser. No. 644,169. Gemex Company, Union, N. J. Filed Mar. 25, 1953.

DANSANT

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Mar. 16, 1953.

Ser. No. 644,883. Thomas & Co., Inc., Seattle, Wash. Filed Apr. 7, 1953.

*MYSTIC*

For Beads, Pearl Jewelry, and Pearls.
Claims use since Oct. 20, 1919.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 604,227. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950. (Classified in Class 4.)
See this serial number in Class 4 for goods and mark.
Claims use since February 1945.

## CLASS 30

### CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 619,731. Aktiebolaget Rörstrands Porslinsfabriker, Lidkoping, Sweden. Filed Oct. 9, 1951.

Rörstrand

Applicant claims ownership of Swedish Registration No. 40,767, dated Aug. 15, 1932.
For Kitchenware and Ovenware—Namely, Covered Pots, Covered Casseroles With Handles, Pans With Handles, Individual Stew Pans, Omelet Dishes, Pie Dishes, Gratin Dishes, Stew Dishes, Serving Tiles, Serving Trays, Cheese Dishes With Covers, Butter Pans, Covered Butter

Boxes, Cheese Platters, Bowls, Sauce Boats, Table Ware—Namely, Flat Plates, Soup Plates, Soup Bowls, Bouillon Cups, Bouillon Cups With Covers and Saucers, Platters, Open Serving Dishes, Covered Serving Dishes, Saladieres, Gravy Bowls With Plates, Sauce Boats With Plates, Tureens, Ramekins, Porringers, Egg Cups, Tea Pots, Coffee Pots, Sugar Bowls, Creamers, Tea Cups With Saucers, Coffee Cups With Saucers, Mocca Cups With Saucers, Chocolate Cups, Hot Water Pitchers, Jam Pots, Salt Shakers, Pepper Shakers, Jugs, Bread Baskets, Fruit Dishes, Dessert Dishes; Art and/or Decorative Ware—Namely, Bonbonnieres, Flower Pots, Cups and Boxes, Bowls, Vases, Urns, Mugs, Jugs, Trays, Plates, and Dishes for Decorative Use, Cosmetic Boxes and Boxes for Use on the Dresser; All Made of Ceramic Materials, Earthenware, Porcelain, Stonewear, Chamotte, China, Bone China and/or Feldspar China.

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Ser. No. 619,732. Aktiebolaget Rörstrands Porslinsfabriker, Lidkoping, Sweden. Filed Oct. 9, 1951.



Applicant claims ownership of Swedish Registration No. 69,314, dated Jan. 12, 1951.

For Kitchenware and Ovenware—Namely, Covered Pots, Covered Casseroles With Handles, Pans With Handles, Individual Stew Pans, Omelet Dishes, Pie Dishes, Gratin Dishes, Stew Dishes, Serving Tiles, Serving Trays, Cheese Dishes With Covers, Butter Pans, Covered Butter Boxes, Cheese Platters, Bowls, Sauce Boats, Table Ware—Namely, Flat Plates, Soup Plates, Soup Bowls, Bouillon Cups, Bouillon Cups With Covers and Saucers, Platters, Open Serving Dishes, Covered Serving Dishes, Saladieres, Gravy Bowls With Plates, Sauce Boats With Plates, Tureens, Ramekins, Porringers, Egg Cups, Tea Pots, Coffee Pots, Sugar Bowls, Creamers, Tea Cups With Saucers, Coffee Cups With Saucers, Mocca Cups With Saucers, Chocolate Cups, Hot Water Pitchers, Jam Pots, Salt Shakers, Pepper Shakers, Jugs, Bread Baskets, Fruit Dishes, Dessert Dishes; Art and/or Decorative Ware—Namely, Bonbonnieres, Flower Pots, Cups and Boxes, Bowls, Vases, Urns, Mugs, Jugs, Trays, Plates, and Dishes for Decorative Use, Cosmetic Boxes, and Boxes for Use on the Dresser; All Made of Ceramic Materials, Earthenware, Porcelain, Stonewear, Chamotte, China, Bone China and/or Feldspar China.

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Ser. No. 620,426. Liquid Veneer Corporation, Buffalo, N. Y. Filed Oct. 24, 1951.

"LITTLE PETE"

For Glazed China Containers for Diffusing a Liquid, Atmospheric Deodorant by Means of a Wick and Sold Empty.

Claims use since Oct. 12, 1951.

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Ser. No. 627,261. Sam Greenebaum, doing business as San Vallé Tile Kilns, Los Angeles, Calif. Filed Mar. 29, 1952.

San Vallé

For Pottery—Namely, Saucers, Bowls, Dishes, Casseroles, Coffee Pots, Pitchers, and Mugs.

Claims use since Feb. 29, 1952.

Ser. No. 637,450. Julia Steven Krafft, doing business as Honey Bear Farm, Genoa City, Wis. Filed Oct. 31, 1952.

HONEY BEAR

For Cups and Mugs Made of China or Ceramic Ware.

Claims use since June 1952.

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Ser. No. 637,451. Julia Steven Krafft, doing business as Honey Bear Farm, Genoa City, Wis. Filed Oct. 31, 1952.



For Cups and Mugs Made of China or Ceramic Ware.

Claims use since June 1952.

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Ser. No. 640,906. Geo. Borgfeldt Corporation, New York, N. Y. Filed Jan. 19, 1953.

Blossomtime

For Porcelain and Earthenware for Domestic and Household Purposes—Namely, Dinner and Other Tableware.

Claims use since Nov. 24, 1952.

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Ser. No. 643,824. Doulton & Co., Limited, Burslem and London, England. Filed Mar. 18, 1953. (Sec. 2f as to the word "Doulton.")




The words "Made in England" and the word "England" are disclaimed. Applicant claims ownership of Registrations Nos. 50,410, 50,411, and others.

For Earthenware Articles of Children's Tableware.

Claims use since on or before Mar. 31, 1937.



## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 623,610. Magic Pantry Co., Los Angeles, Calif. Filed Jan. 15, 1952.




The pictorial representation of a deep freeze cabinet is disclaimed apart from the mark as shown. Applicant disclaims use of the word "Pantry" apart from combination with the mark as a whole.

For Deep Freezers.

Claims use since Nov. 1, 1951.

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## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 580,496. National Mattress Company, Huntington, W. Va. Filed June 15, 1949.

N

HIDE-COT

NAMACO

Exclusive use of the word "Cot" is not claimed apart from the rest of the mark. Applicant claims ownership of Registrations Nos. 430,919, 518,148, and others.

For Cots.

Claims use since Mar. 18, 1949.

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Ser. No. 582,454. Hubert Wolter, doing business as Wolter & Sons, Chicago, Ill. Filed July 23, 1949.




The name "Wolter" is disclaimed apart from the mark as shown.

For Forgings in the Form of Flower Stands, Plant Stands, Vase Stands, Predieux, Display Stands, Desks, Tables, and Chairs Designed Primarily for Use by Florists and Caterers.

Claims use since Sept. 15, 1948.

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Ser. No. 632,201. Joseph F. Dimaria, Palo Alto, Calif. Filed July 7, 1952.

BED-MADES

For Bedding Clamps for Retaining the Bedding of a Made-Up Bed Against Disarrangement.

Claims use since Feb. 19, 1952.



Ser. No. 632,453. W. L. Stensgaard and Associates, Inc., Chicago, Ill. Filed July 11, 1952.

comurack

Applicant claims ownership of Registration No. 355,339.

For Metal Stands for Holding Advertising Commercial Murals, Panels, and Screens and the Like.

Claims use since May 7, 1947.

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Ser. No. 632,805. The Union Metal Manufacturing Company, Canton, Ohio. Filed July 19, 1952.

VU-O-MATIC ROTARY STAND

The words "Rotary Stand" are disclaimed apart from the mark.

For Vertical Multi-Tray Rotary Stand for Receptacles for Storing Small Parts.

Claims use since June 5, 1952.

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Ser. No. 635,796. United States Rubber Company, New York, N. Y. Filed Sept. 25, 1952.

FLOTOFOAM

Applicant claims ownership of Registration No. 411,394.

For Mattress Cores of Foam Rubber.

Claims use since Nov. 27, 1951.

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Ser. No. 638,168. Storkline Furniture Corporation, Chicago, Ill. Filed Nov. 15, 1952.

Storkline

Applicant claims ownership of Registrations Nos. 144,237, 283,608, and others.

For Infants', Nursery, and Juvenile Furniture—Namely, Baby Swing Chairs, Bassinets, Bedroom Tables, Beds, Bookcases, Chests, Chests of Drawers, Chiffarobes, Costumers, Cribs, Dressing Tables, Dressing Table and Folding Bathtub Combinations, Floor Screens, Folding Tables, Highchairs, Musical Rockers, Nursery Chairs, Nursery (Toilet) Chairs, Play Pens, Secretaries, Stands, Step-Ups, Table and Chair Sets, Wardrobe Chests, and Youth Beds.

Claims use since 1919.

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Ser. No. 640,575. The National Plastic Products Company, Odenton, Md. Filed Jan. 9, 1953. (Sec. 2f.)

Wynene SOCKETTES

For Chair Leg Tips.

Claims use since Nov. 5, 1947.

Ser. No. 641,087. R-J Enclosures, Inc., New York, N. Y. Filed Jan. 21, 1953.

rj

For Acoustical Loudspeaker Enclosure Cabinets.
Claims use since June 17, 1952.

Ser. No. 642,057. Weatherwood Manufacturing Co., Orange, Tex. Filed Feb. 10, 1953.

WEATHERWOOD

For Furniture—Namely, Tables, Chairs, Benches, Stools, Lounges, Sofas, Divans, Settees, Loveseats, Beds, Dressers, Bureaus, Chests, Desks, Portable Bars, Storage Cabinets, Shelf Units, Night Stands, Magazine Racks, Bookcases, Folding Screens for Domestic Divisional Purposes, Servers, Hostess Carts, Tea-Carts, and Tea Wagons.
Claims use since July 10, 1952.

## CLASS 33

### GLASSWARE

Ser. No. 614,293. Eastern Art Products, Chicago, Ill. Filed May 24, 1951.

*Midnight Jewel*

For Stock Glass in Sheets and Strips.
Claims use since Dec. 27, 1949.

Ser. No. 617,558. Societe d'Exploitation Verriere Beance Bourgogne, Paris, France. Filed Aug. 10, 1951.

DURALEX

For Glassware for Table, Culinary, and Household Purposes—Namely, Plates, Goblets, Bowls, Vegetable Dishes, Wine and Beer Glasses, Tumblers, Cups, and Strainers.
Claims use since during the spring of 1946; and since Aug. 9, 1949, in commerce between foreign nations and the United States.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 626,932. The Cleveland Heater Company, Cleveland, Ohio. Filed Mar. 24, 1952.

NU-TONE

For Gas, Oil, Vapor Burning Water Heaters and Their Structural Parts.
Claims use since Jan. 25, 1939.

Ser. No. 630,162. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 23, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.
For Room Heaters and Fans for Room Heaters.
Claims use since 1946.

Ser. No. 642,130. George J. Emrich, Columbus, Ohio. Filed Feb. 12, 1953.

EMRICH

For Gas, Oil, and Coal Fired Stoves and Space Heaters.
Claims use since 1863.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 638,331. Societe Le Carbone Lorraine, Paris, France. Filed Nov. 19, 1952.



Applicant claims ownership of French Registration No. 317,857, dated Dec. 8, 1937.
For Carbon Gland Rings Used in Rotating Equipment as a Mechanical Shaft Seal, Carbon Linings and Inserts for Brakes Used in Railway Type Brake Shoes and Disks or in Any Other Type of Brake To Improve Friction and/or Control Wear, and Carbon Packing Rings Used in Apparatus Such as Automobile Water Pumps, Washing Machines, Etc., To Control Leakage and Provide Lubrication Along the Shaft.

Ser. No. 642,303. Quaker Pacific Rubber Company, San Francisco, Calif. Filed Feb. 16, 1953.




Applicant disclaims exclusive rights to the words "Plastic Lawn Hose." The signature is of James T. Moore, consent of record.
For Fire Hose, Water Hose, Packing Material for Valves, Faucets, Bearings, and Belting.
Claims use since Oct. 12, 1948.



Ser. No. 642,541. The Garlock Packing Company, Palmyra, N. Y. Filed Feb. 20, 1953.

*Gar-Seal*

Applicant disclaims exclusive rights to the term "Seal" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 193,575 and 356,210.
For Mechanical Packings and Mechanical Packing Materials—Namely, Dry Plastic Packings Primarily Used To Prevent Leakage Between the Moving or Stationary Parts of Mechanical Equipment.
Claims use since Dec. 22, 1952.

Ser. No. 644,561. Minnesota Rubber and Gasket Co., St. Louis Park, Minn. Filed Apr. 1, 1953.

QUAD

For Seal Rings.
Claims use since Jan. 19, 1953.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 562,441. Blake, Moffitt & Towne, San Francisco, Calif. Filed July 29, 1948.

Bear Brand

The word "Brand" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 180,537, 180,994, and others.
For Waxed Paper.
Claims use since Mar. 12, 1935.

Ser. No. 618,201. Ashland Paper Mills, Inc., Ashland, N. H. Filed Aug. 29, 1951.

ADVANCE
LO-FOLD

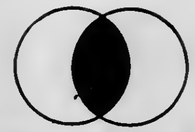
Applicant disclaims exclusive use to the words "Lo" and "Fold," and also the background used with the mark, apart from the mark as shown. Applicant claims ownership of Registration No. 401,849.
For Paper Napkins.
Claims use since July 24, 1951.

Ser. No. 631,568. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.

POLAROID

For Photographic Albums and Picture Mounts.
Claims use since Aug. 1, 1949.

Ser. No. 631,573. Polaroid Corporation, Cambridge, Mass. Filed June 21, 1952.



Applicant claims ownership of Registrations Nos. 343,337, 398,918, and others.
For Photographic Albums and Picture Mounts.
Claims use since Aug. 1, 1949.

Ser. No. 633,355. Florida Tissue Manufacturing Company, Opa Locka, Fla. Filed Aug. 1, 1952.

*Quickies*

For Paper Towels.
Claims use since June 3, 1952.

Ser. No. 634,465. L. & C. Hardtmuth, Inc., Bloomsbury, N. J. Filed Aug. 26, 1952.

"STUDIO"

For Pencils.
Claims use since as early as Oct. 17, 1905.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 599,463. The Times-Picayune Publishing Company, New Orleans, La. Filed June 20, 1950. (Sec. 2f.)

The Times-Picayune
NEW ORLEANS STATES
Dixie
ROTO MAGAZINE

No claim is made to the expression "Roto Magazine" except in combination with the mark as shown. Applicant claims ownership of Registrations Nos. 234,871 and 307,978.
For Newspaper Magazine Section.
Claims use since Apr. 23, 1950, on the mark as shown; since May 12, 1914, as to "The Times Picayune"; and since Jan. 3, 1880, as to "New Orleans States."

Ser. No. 628,548. The Miami Daily News, Inc., Miami, Fla. Original filed, act of 1946, Supplemental Register, Apr. 23, 1952; amended to application, Principal Register, May 19, 1953.

YOUTH ROUND-UP

For Weekly Newspaper Feature.
Claims use since Apr. 16, 1948.

Ser. No. 628,640. National Rural Electric Cooperative Association, Washington, D. C. Filed Apr. 24, 1952.



For Magazine Column.
Claims use since Oct. 1, 1951.

Ser. No. 633,765. George Garland, doing business as Garland Publications, New York, N. Y. Filed Aug. 12, 1952.

mother & baby

For Periodical Appearing Monthly.
Claims use since July 25, 1952.

Ser. No. 640,054. The Sporting News Publishing Company, Inc., St. Louis, Mo. Filed Dec. 26, 1952.

THE FIFTH QUARTER

For Newspaper Column.
Claims use since Nov. 23, 1946.

Ser. No. 640,055. The Sporting Goods Publishing Company, St. Louis, Mo. Filed Dec. 26, 1952. (Sec. 2f.)

JOBBERS'
SPORTING GOODS

For Annual Publication.
Claims use since Mar. 26, 1946.

Ser. No. 641,889. Arena Publishing Corp., New York, N. Y. Filed Feb. 9, 1953.

Foto-rama

Applicant disclaims the term "Foto" shown on the drawing separately from the entire mark shown in the drawing.
For Publication Published Periodically.
Claims use since Oct. 21, 1952.

Ser. No. 642,457. B & W Rainbow Stamp Company, Killeen, Tex. Filed Feb. 19, 1953.




For Trading Stamps.
Claims use since Feb. 7, 1953.

Ser. No. 642,629. Electric Steel Foundry, Portland, Oreg. Filed Feb. 24, 1953.

DIG

For Periodical Published From Time to Time.
Claims use since Dec. 3, 1952.

Ser. No. 642,684. New York Herald Tribune Inc., New York, N. Y. Filed Feb. 24, 1953.

LISTEN,
LADIES!

For Newspaper Column.
Claims use since Feb. 2, 1953.

Ser. No. 642,792. Ace Reid Cartoons, Kerrville, Tex. Filed Feb. 26, 1953.

Jake and Zeb

For Cartoons.
Claims use since Feb. 15, 1953.

Ser. No. 642,848. Supplee-Biddle-Steltz Company, Philadelphia, Pa. Filed Feb. 26, 1953.

Sniagrab

For Catalogues Published Periodically.
Claims use since Jan. 2, 1953.



## CLASS 39

## CLOTHING

Ser. No. 607,644. Seamprufe Incorporated, New York, N. Y. Filed Dec. 13, 1950.

FLEX-O
TWIST

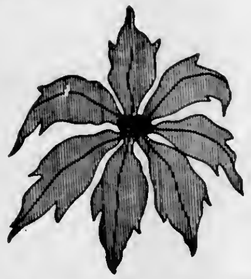
No claim is made to the word "Twist" apart from the mark as shown. Applicant claims ownership of Registration No. 312,097.
For Women's and Misses' Hosiery.
Claims use since Oct. 10, 1950.

Ser. No. 607,803. Empire Manufacturing Company, Denver, Colo. Filed Dec. 18, 1950.




The right to registration of the words "Daughter 'n' Dolly" per se, on the Principal Register, under the act of July 5, 1946, apart from the mark as shown in the drawing is disclaimed without waiving or disclaiming any common law rights in or with respect to said words as applied to the goods described. The pictures shown in the drawing are fanciful.
For Girls' and Dolls' Lingerie —Namely, Pants, Gowns, Pajamas, Robes, and Slips, All Made of Various Materials and Sold in Matching Sets for Girls and Dolls.
Claims use since Aug. 18, 1950.

Ser. No. 617,566. The Wilson Rubber Company, Canton, Ohio. Filed Aug. 10, 1951.



The drawing is lined for red color. Applicant claims ownership of Registration No. 325,143.
For Household and Industrial Gloves of Rubber and Plastic Material.
Claims use since Dec. 16, 1932.

Ser. No. 617,568. The Wilson Rubber Company, Canton, Ohio. Filed Aug. 10, 1951.

Hostess

For Household and Industrial Gloves of Rubber and Plastic Material.
Claims use since Apr. 12, 1933.

Ser. No. 619,545. Joseph B. Greenberg Co., and also doing business as Joe Workman's Dept. Stores, Greensburg, Pa. Filed Oct. 3, 1951.

HANDMASTER

For Men's and Boys' Clothing—Namely, Hats, Suits, Coats, Jackets, Utility Outer Shirts and Jackets, Shoes.
Claims use since 1931.

Ser. No. 622,161. Maureen Manufacturing Company, Chicago, Ill. Filed Dec. 6, 1951.

"RIM-BRIM"

No claim is made to exclusive right to use the word "Brim" apart from the mark as shown.
For Collapsible Hats for Women and Girls.
Claims use since July 14, 1951.

Ser. No. 624,634. Diamond Hosiery Corp., High Point, N. C., and New York, N. Y. Filed Feb. 7, 1952.

FIDDLE FOOT

For Women's and Girls' Hosiery.
Claims use since Dec. 14, 1951.

Ser. No. 625,888. Champ Hats, Inc., Philadelphia, Pa. Filed Mar. 4, 1952.



The representation of the hat appearing in the drawing is disclaimed apart from the mark. Applicant claims ownership of Registration No. 538,140.
For Hats for Men and Boys.
Claims use since Jan. 1, 1950.

Ser. No. 629,446. Miller & Co., Denver, Colo. Filed May 9, 1952.




Applicant disclaims the words "Look Your Western Best," apart from the mark as shown. On the drawing, the capital letter "T" is lined for the color red.
For Men's, Women's, and Children's Outer Shirts, Pants, Belts, Hats, Boots, and Ties.
Claims use since Jan. 25, 1952.

Ser. No. 630,136. Kops Bros. Inc., New York, N. Y. Filed May 23, 1952.

## DWINDLE WAIST

The word "Waist" is disclaimed apart from the mark as shown on the drawing.
For Foundation Garments.
Claims use since May 19, 1952.

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Ser. No. 631,354. Kaylon Incorporated, New York, N. Y. Filed June 18, 1952.

## TOMMIES HOMEBODIES

Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.
For Ladies' and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes.
Claims use since May 6, 1952.

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Ser. No. 631,384. Suzanne's Parisian Furs, Inc., Jamaica, N. Y. Filed June 18, 1952.



The picture of the girl shown on the drawing is fanciful.
For Fur Coats.
Claims use since Nov. 21, 1950.

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Ser. No. 632,937. Leo C. Hofman, West Hyattsville, Md. Filed July 23, 1952.

Royal Plumage

For Hosiery for Men, Women, and Children.
Claims use since Mar. 16, 1946.

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Ser. No. 632,952. The Neusteter Co., Denver, Colo. Filed July 23, 1952.

## Neu-Deb

For Dresses, Wraps, Jackets, Coats, Scarves, Suits, Corsets, Underwear, Negligees, Shoes of Leather, Fabric or Combinations Thereof, Hats, Berets, Gloves of Leather, Fabric or Combinations Thereof, Handkerchiefs, Hosiery, Collars, Blouses, Slacks, Bathing Suits, Skirts, Outer Shorts, and Sweaters for the Use of Women.
Claims use since on or about June 6, 1952.

Ser. No. 633,110. Lancer Shirt Company, Los Angeles, Calif. Filed July 26, 1952.

Lancer

For Men's Sport and Dress Outer Shirts.
Claims use since September 1946.

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Ser. No. 634,131. Wolverine Knitting Mills, Bay City, Mich. Filed Aug. 18, 1952.

## CU QD DEE

For Blouses, Underwear, and Sleeping Garments—Namely, Pajamas, Sleeping Gowns, Shortie Gowns, and Bed Jackets for Ladies and Children.
Claims use since June 4, 1952.

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Ser. No. 634,296. Brooklyn Mills, Inc., Englewood, N. J. Filed Aug. 22, 1952.




The words "Fit for a Queen" are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 435,217 and 555,199.
For Hair Nets.
Claims use since on or about July 1947.

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Ser. No. 635,016. George Aldor Co., Inc., New York, N. Y. Filed Sept. 9, 1952.

GERALD

For Hosiery for Women.
Claims use since Aug. 15, 1952.

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Ser. No. 635,870. H. H. Brown Shoe Co. Inc., Worcester, Mass. Filed Sept. 27, 1952.

PARA-ZIP

For Men's, Women's, and Children's Boots and Shoes.
Claims use since Sept. 17, 1952.



Ser. No. 636,194. Avonshire Knitting Mills, Inc., Philadelphia, Pa. Filed Oct. 6, 1952.

Toni Pratt

The name "Toni Pratt" is fanciful.
For Sweaters for Men, Women, Boys, and Girls.
Claims use since July 1, 1951.

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Ser. No. 636,413. Duofold Inc., Mohawk, N. Y. Filed Oct. 9, 1952.

Magic Band

The word "Band" is disclaimed apart from the mark shown.
For Men's Underwear—Namely, Shorts and Briefs.
Claims use since Sept. 12, 1952.

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Ser. No. 636,576. Marguerite A. Stirton, doing business under the name and style of Adele Apron Co., Oak Park, Ill. Filed Oct. 13, 1952.

Snapllique

For Aprons for Household Use.
Claims use since Aug. 5, 1952.

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Ser. No. 636,620. Wembley, Inc., New Orleans, La. Filed Oct. 14, 1952. (Sec. 2f as to "Wembley.")




The drawing is lined for the color yellow but no claim is made to the color. Applicant claims ownership of Registrations Nos. 378,015, 390,628, and others.
For Men's Neckties and Scarfs.
Claims use since July 1952 as to the mark shown; and since 1926 as to "Wembley."

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Ser. No. 636,733. Morris Poupko, doing business under the name and style of Williamstown Hosiery Mills, Williamstown, N. J. Filed Oct. 16, 1952.

Daisy Lee

The name "Daisy Lee" is purely arbitrary and fanciful and is not the name of any living individual. Applicant claims ownership of Registration No. 509,175.
For Hosiery and Slips, Panties, Underwear, Pajamas, and Sleeping Robes, All for Women.
Claims use since July 29, 1946.

Ser. No. 638,060. Bristol Manufacturing Corporation, Bristol, R. I. Filed Nov. 14, 1952.

FOOT POSITIONER

Applicant claims ownership of Registration No. 539,134.
For Men's, Women's, and Children's Shoes Made of Canvas, Leather, Rubber, or Combinations Thereof.
Claims use since Sept. 4, 1947.

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Ser. No. 638,313. Riki of California, Inc., Jersey City, N. J. Filed Nov. 19, 1952.

Riki of California
fashion shops for men

The applicant registrant disavows any claim to the right of the exclusive use of the following descriptive wording: "Of California": "Fashion Shops for Men."
For Men's Top Coats, Overcoats, Storm Coats, Sport Jackets, Men's Suits, Outer Shirts, and Ties.
Claims use since Sept. 27, 1951.

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Ser. No. 638,320. William Skinner & Sons, Holyoke, Mass., and New York, N. Y. Filed Nov. 19, 1952.

## TAMAWEVE

For Men's, Women's, Misses', and Children's Caps; Hats, Shoes of Leather, Calf Skin, Satin Brocade, Snakeskin, and Kid; Gloves of Fabric, Leather and Combinations Thereof, Riding Breeches, Riding Habits, Sports Coats, Bathing Suits, Beach Robes, Slacks and Trousers, Suits, Coats, Overcoats, Raincoats; Hosiery; Women's, Misses', and Children's Collar and Cuff Sets, Neckties, Belts for Outer Wear; Scarfs, Blouses, Smocks, Aprons, Skirts for Outer Wear, Dresses, Kimonos, Negligees; Lingerie—Namely, Dancing Sets and Costume Slips, Bloomers, Drawers, Vests, Chemises; Dress Slips, Petticoats, Nightgowns, Shawls, Children's Rompers; Wedding Gowns; Nurses' Uniforms; Women's and Misses' Corsets, Brassières, and Combination Corsets and Brassière.
Claims use since Nov. 13, 1952.

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Ser. No. 638,445. Boris Smoler & Sons, Inc., Chicago, Ill. Filed Nov. 21, 1952. (Sec. 2f.)

better half
"FOR BETTER FIT"

Applicant disclaims the descriptive wording "For Better Fit." Applicant claims ownership of Registration No. 425,206.
For Women's Dresses.
Claims use since about January 1945.

Ser. No. 638,636. Craftshire Sports, Inc., New York, N. Y. Filed Nov. 26, 1952.

Signa-Style

No claim is made to the word "Style" apart from the mark as shown.
For Women's and Misses' Suits and Coats
Claims use since Nov. 7, 1952.

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Ser. No. 638,742. Techno Efficiency Council, Inc., Brooklyn, N. Y. Filed Nov. 28, 1952.




The representation of the boot shown in the drawing is disclaimed apart from the mark shown. The boot is lined for shading purposes only.
For Men's, Women's, and Children's Footwear—Namely, Boots and Shoes of Leather and/or Rubber and Combinations Thereof.
Claims use since Oct. 27, 1952.

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Ser. No. 639,187. Pearl-Preview Shoe Co., Philadelphia, Pa. Filed Dec. 8, 1952. (Sec. 2f.)

Martinique

Applicant claims ownership of Registration No. 336,537.
For Women's Shoes, Made of Leather, Plastic, Cloth, or Combinations of Such Materials.
Claims use since 1932.

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Ser. No. 639,363. Epstein Garment Co. Inc., New York, N. Y. Filed Dec. 12, 1952.

Teena + Twosome

Applicant claims ownership of Registration No. 561,144.
For Ladies', Misses', and Girls' Two-Piece Dresses and Suits.
Claims use since July 15, 1952.

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Ser. No. 639,432. The Mayer Company, Inc., also known as The Mayer Co. Inc., New York, N. Y. Filed Dec. 13, 1952.

SUGAR HILL

For Women's and Misses' Hosiery.
Claims use since on or about June 22, 1950.

Ser. No. 639,675. Treo Company, Inc., Jamaica, N. Y. Filed Dec. 17, 1952.

TREO Foil

Applicant claims ownership of Registrations Nos. 390,660 and 111,615.
For Corsets, Girdles, and Foundation Garments.
Claims use since Nov. 14, 1952.

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Ser. No. 639,873. W. B. Coon Company, Rochester, N. Y. Filed Dec. 22, 1952.

PROFESSIONALS by Wilbur Coon

The words "Wilbur Coon" appearing in the mark are the facsimile signature of the founder of the corporation, now deceased. Applicant disclaims the word "Professionals" apart from the mark as shown. Applicant claims ownership of Registration No. 515,960.
For Women's Shoes Made of Leather, Cloth, and Rubber.
Claims use since Aug. 20, 1951.

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Ser. No. 639,880. Itobt. K. Gershenow Company, Inc., New York, N. Y. Filed Dec. 22, 1952.

Tilou

For Women's and Girls' Dresses.
Claims use since Oct. 5, 1952.

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Ser. No. 640,071. George Fine, Tucson, Ariz. Filed Dec. 27, 1952.




The word "Gadsden" is disclaimed apart from the mark shown.
For Dresses, Blouses, Skirts, Coats, and Belts for Ladies.
Claims use since on or about Oct. 1, 1952.

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Ser. No. 640,536. United States Rubber Company, New York, N. Y. Filed Jan. 8, 1953.

Rainpals

For Molded or Dipped Women's Gaiters of Elastomeric Material.
Claims use since July 25, 1947.



Ser. No. 641,000. Bear Brand Hosiery Co., Chicago, Ill. Filed Jan. 21, 1953.

Paraflex

For Men's Hosiery.
Claims use since Nov. 4, 1952.

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Ser. No. 641,035. Ferrersflex Limited, Higham Ferrers, England. Filed Jan. 21, 1953.

FERRERSFLEX

Applicant claims ownership of British Registration No. B670,897, dated July 3, 1948.
For Stiffeners, Being Parts of Boots and Shoes.

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Ser. No. 641,399. Tailortex Blouse, Inc., Newburgh, N. Y. Filed Jan. 27, 1953.

TAILORTEX Classic WITH TAPE

The words "Classic" and "Tape" are disclaimed apart from the mark as shown on the drawing.
For Women's, Misses', and Children's Blouses, Nightgowns, Slips, Negligees, Pajamas, Panties, and Bed Jackets.
Claims use since Mar. 1, 1949.

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Ser. No. 641,552. Mortimer D. Goldman, New York, N. Y. Filed Jan. 30, 1953.

MR. MORT

For Ladies' and Misses' Sportswear—Namely, Suits, Coats, Dresses, Skirts, Blouses, and Sweaters.
Claims use since Dec. 12, 1952.

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Ser. No. 641,680. Norman Hilton, Linden, N. J. Filed Feb. 3, 1953.

COTTAGE CLOTH

No claim is made to the word "Cloth" apart from the mark shown.
For Men's Jackets and Sport Jackets.
Claims use since May 6, 1952.

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Ser. No. 641,682. The Johnnor Company, Linden, N. J. Filed Feb. 3, 1953.

TAMBELAN TWEED

No claim is made to the word "Tweed" apart from the mark as shown.
For Men's Jackets and Sport Jackets.
Claims use since Sept. 28, 1951.



Ser. No. 642,055. United Hosiery Mills Corporation, Chattanooga, Tenn. Filed Feb. 10, 1953.

RELLIM

The drawing is lined for shading only.
For Polo Shirts, Cardigans, Shorts for Outer Wear and Socks for Boys and Girls.
Claims use since Jan. 29, 1953.

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Ser. No. 642,071. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 11, 1953.

Fedrite

For Men's Suits and Coats.
Claims use since Feb. 4, 1953.

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Ser. No. 642,147. The La Resista Corset Company, Bridgeport, Conn. Filed Feb. 12, 1953.

Cloro-Bra

The word "Bra" is disclaimed apart from the mark as shown.
For Brassières, Ladies' Foundation Undergarments, and Ladies' Bathing Suits.
Claims use since on or about Feb. 6, 1953.

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Ser. No. 642,175. Startime, Inc., New York, N. Y. Filed Feb. 12, 1953.

STARTIME Inc.

For Women's and Misses' Dresses and Evening Gowns.
Claims use since September 1950.

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## CLASS 40

## FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 642,444. S. H. Kress and Company, New York, N. Y. Filed Feb. 9, 1953.

BONITA

Applicant claims ownership of Registrations Nos. 293,299, 303,552, and others.
For Kid Hair Curlers.
Claims use since May 3, 1932.

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Ser. No. 643,004. Style Supplies Manufacturers, Inc., New York, N. Y. Filed Mar. 2, 1953.

"SKYBAC"

For Belt Backing.
Claims use since Jan. 15, 1953.

## CLASS 41

### CANES, PARASOLS, AND UMBRELLAS

Ser. No. 637,742. Annie Oakley Enterprises, Inc., Los Angeles, Calif. Filed Nov. 7, 1952.

ANNIE OAKLEY

Among other meanings, the words "Annie Oakley" were the pseudonym of the famous woman sharp-shooter, Phoebe Mozee, now deceased. Applicant claims ownership of Registrations Nos. 559,337 and 567,164.

For Umbrellas.

Claims use since Apr. 22, 1952.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 623,953. Dan River Mills, Incorporated, Danville, Va. Filed Jan. 23, 1952.

X-2

For Textile Fabrics in the Piece of Rayon and Mixtures of Rayon With Other Synthetic Fibers and Cotton Fibers.

Claims use since Dec. 29, 1951.

Ser. No. 624,476. Deering, Milliken & Co., Inc., New York, N. Y. Filed Feb. 4, 1952.

MILL-PIC

No claim is made to the word "MILL" apart from the mark shown on the drawing.

For Textile Fabrics Made of "Saran."

Claims use since Oct. 3, 1951.

Ser. No. 634,387. United Elastic Corporation, Easthampton, Mass. Filed Aug. 23, 1952.

THERMOFLEX

For Woven Elastic Webbing.

Claims use since May 9, 1952.

Ser. No. 640,666. Charles Bloom, New York, N. Y. Filed Jan. 13, 1953.

MAGIC HOUR

For Fabrics in the Piece Made of Cotton, Silk, Wool, and Synthetic Fibres and Mixtures Thereof.

Claims use since June 1, 1952.

Ser. No. 640,749. M. Lowenstein & Sons, Inc., New York, N. Y. Filed Jan. 14, 1953.

COURTESY

For Piece Goods of Cotton, Rayon, and Combinations Thereof.

Claims use since Sept. 30, 1952.

Ser. No. 641,302. The House of Swansdown, Inc., New York, N. Y. Filed Jan. 26, 1953.

PEARL WHITE

The name "Pearl White" is that of the motion picture actress, now deceased.

For Woolen and Worsted Fabrics in the Piece.

Claims use since Jan. 21, 1951.

Ser. No. 641,089. Tanbro Fabrics Corp., New York, N. Y. Filed Feb. 9, 1953.

Tanidure

Applicant claims ownership of Registrations Nos. 540,847 and 572,058.

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibres.

Claims use since June 11, 1952.

Ser. No. 642,083. Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Filed Feb. 11, 1953.



For Cotton Duck, Cotton Piece Goods, Rayon Piece Goods, and Cotton and Rayon Blend Piece Goods.

Claims use since Jan. 16, 1953.

Ser. No. 642,156. Naumkeag Steam Cotton Company, Salem, Mass. Filed Feb. 12, 1953. (Sec. 2f.)

Newport

Applicant claims ownership of Registration No. 143,863.

For Sheets and Pillow Cases.

Claims use since 1905.

Ser. No. 642,345. Forstmann Woolen Co., Passaic, N. J. Filed Feb. 17, 1953.

MARVELGA

Applicant claims ownership of Registrations Nos. 568,392, 252,886, and 126,158.

For Woolen Piece Goods.

Claims use since Feb. 13, 1953.



Ser. No. 642,538. Forstmann Woolen Co., Passaic, N. J. Filed Feb. 20, 1953.

LANTA

Applicant claims ownership of Registration No. 300,342.

For Woolen Piece Goods.

Claims use since Dec. 1, 1931.

## CLASS 43

### THREAD AND YARN

Ser. No. 638,583. Imperial Chemical Industries Limited, London and Millbank, England. Filed Nov. 25, 1952.

Ardil PROTEIN FIBRE ICI

No claim is made to the exclusive use of the words "Prolein Fibre" apart from the mark shown in the drawing. Applicant claims ownership of British and Northern Irish Registration No. 703,581, dated Dec. 21, 1951; and United States Registration No. 422,560.

For Yarns and Threads Made Wholly or Mainly of Protein Fibre.

Ser. No. 643,175. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953.

CREVENNA

Applicant claims ownership of Registration No. 300,244.

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.

Claims use since June 1931.

Ser. No. 643,176. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953.

LAMBALE'

Applicant claims ownership of Registration No. 300,245.

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.

Claims use since June 1931.

Ser. No. 643,177. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953.

SILVENNA

Applicant claims ownership of Registration No. 300,246.

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.

Claims use since June 1931.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 589,442. Graham-Field Surgical Co., New York, N. Y. Filed Dec. 16, 1949.

GRAFCO

For Therapeutic Thermometers, Crutches, Splints, Fracture Splints, Finger Cots and Splints, Pessaries, Rectal Dilators, Vaginal Diaphragms, Wound Clips, Atomizers, Forceps, Syringes, Bandages, Ortho-Pedic Felt, Waddings, Arm Slings, Duodenal and Stomach Tubes, Irrigation Tubes, Hypodermoclysis Tubes, Empyema Tubes, Catheters and Surgical Tubes, Invalid and Operating Cushions, Irrigators, Rectal and Vaginal Pipes, Breast Pumps, Hemometers, Hemacytometer Outfits, Blood Lancets, Skin or Glass Marking.

Claims use since Apr. 15, 1946.

Ser. No. 627,414. The Wella Corporation, New York, N. Y. Filed Apr. 1, 1952.

WELLA

Applicant claims ownership of Registrations Nos. 294,330, 294,360, and 296,728.

For Electrical Hair Waving Machines and Clamps Comprising Part of Such Machines, Electrically Heated Caps for Drying the Hair and Non-Impregnated Pads Used in Hair Waving Operations.

Claims use since Dec. 2, 1931.

Ser. No. 628,899. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

RUDDOCK

For Endoscopic Instruments—Namely, Peritoneoscopes and Components Thereof.

Claims use since July 1937.

Ser. No. 629,755. Harold J. Thompson, doing business as H. & L. Laboratories, Minneapolis, Minn. Filed May 15, 1952.

Occlusal Facetor

Applicant in the above entitled application hereby disclaims the term "Occlusal" apart from its use with the whole trade-mark "Occlusal Facetor."

For Dental Articulators.

Claims use since Oct. 10, 1951.

## CLASS 41

### CANES, PARASOLS, AND UMBRELLAS

Ser. No. 637,742. Annie Oakley Enterprises, Inc., Los Angeles, Calif. Filed Nov. 7, 1952.

ANNIE OAKLEY

Among other meanings, the words "Annie Oakley" were the pseudonym of the famous woman sharpshooter, Phoebe Mozee, now deceased. Applicant claims ownership of Registrations Nos. 559,337 and 567,164.

For Umbrellas.

Claims use since Apr. 22, 1952.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 623,953. Dan River Mills, Incorporated, Danville, Va. Filed Jan. 23, 1952.

X-2

For Textile Fabrics in the Piece of Rayon and Mixtures of Rayon With Other Synthetic Fibers and Cotton Fibers.

Claims use since Dec. 29, 1951.

Ser. No. 624,476. Deering, Milliken & Co., Inc., New York, N. Y. Filed Feb. 4, 1952.

MILL-PIC

No claim is made to the word "Mill" apart from the mark shown on the drawing.

For Textile Fabrics Made of "Saran."

Claims use since Oct. 3, 1951.

Ser. No. 634,387. United Elastic Corporation, Easthampton, Mass. Filed Aug. 23, 1952.

THERMOFLEX

For Woven Elastic Webbing.

Claims use since May 9, 1952.

Ser. No. 640,666. Charles Bloom, New York, N. Y. Filed Jan. 13, 1953.

MAGIC HOUR

For Fabrics in the Piece Made of Cotton, Silk, Wool, and Synthetic Fibres and Mixtures Thereof.

Claims use since June 1, 1952.

Ser. No. 640,749. M. Lowenstein & Sons, Inc., New York, N. Y. Filed Jan. 14, 1953.

COURTESY

For Piece Goods of Cotton, Rayon, and Combinations Thereof.

Claims use since Sept. 30, 1952.

Ser. No. 641,302. The House of Swansdown, Inc., New York, N. Y. Filed Jan. 26, 1953.

PEARL WHITE

The name "Pearl White" is that of the motion picture actress, now deceased.

For Woolen and Worsted Fabrics in the Piece.

Claims use since Jan. 21, 1951.

Ser. No. 641,989. Tambro Fabrics Corp., New York, N. Y. Filed Feb. 9, 1953.

Tanidure

Applicant claims ownership of Registrations Nos. 540,847 and 572,058.

For Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibres.

Claims use since June 11, 1952.

Ser. No. 642,083. Mt. Vernon-Woodberry Mills, Inc., Baltimore, Md. Filed Feb. 11, 1953.



For Cotton Duck, Cotton Piece Goods, Rayon Piece Goods, and Cotton and Rayon Blend Piece Goods.

Claims use since Jan. 16, 1953.

Ser. No. 642,156. Naumkeag Steam Cotton Company, Salem, Mass. Filed Feb. 12, 1953. (Sec. 2f.)

Newport

Applicant claims ownership of Registration No. 143,863.

For Sheets and Pillow Cases.

Claims use since 1905.

Ser. No. 642,345. Forstmann Woolen Co., Passaic, N. J. Filed Feb. 17, 1953.

MARVELGA

Applicant claims ownership of Registrations Nos. 568,392, 252,886, and 126,158.

For Woolen Piece Goods.

Claims use since Feb. 13, 1953.



Ser. No. 642,538. Forstmann Woolen Co., Passaic, N. J. Filed Feb. 20, 1953.

LANTA

Applicant claims ownership of Registration No. 300,342.

For Woolen Piece Goods.

Claims use since Dec. 1, 1931.

## CLASS 43

### THREAD AND YARN

Ser. No. 638,583. Imperial Chemical Industries Limited, London and Millbank, England. Filed Nov. 25, 1952.

Ardil PROTEIN FIBRE ICI

No claim is made to the exclusive use of the words "Protein Fibre" apart from the mark shown in the drawing. Applicant claims ownership of British and Northern Irish Registration No. 703,581, dated Dec. 21, 1951; and United States Registration No. 422,560.

For Yarns and Threads Made Wholly or Mainly of Protein Fibre.

Ser. No. 643,175. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953.

CREVENNA

Applicant claims ownership of Registration No. 300,244.

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.

Claims use since June 1931.

Ser. No. 643,176. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953.

LAMBALE'

Applicant claims ownership of Registration No. 300,245.

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.

Claims use since June 1931.

Ser. No. 643,177. The National Silk Company, Incorporated, South Coventry, Conn. Filed Mar. 5, 1953.

SILVENNA

Applicant claims ownership of Registration No. 300,246.

For Threads, Yarns, and Novelty Yarns Composed of Worsted, Wool, Cotton, Silk, Rayon, or a Combination of Such Textures.

Claims use since June 1931.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 589,442. Graham-Field Surgical Co., New York, N. Y. Filed Dec. 16, 1949.

GRAFCO

For Therapeutic Thermometers, Crutches, Splints, Fracture Splints, Finger Cots and Splints, Pessaries, Rectal Dilators, Vaginal Diaphragms, Wound Clips, Atomizers, Forceps, Syringes, Bandages, Ortho-Pedic Felt, Waddings, Arm Slings, Duodenal and Stomach Tubes, Irrigation Tubes, Hypodermoclysis Tubes, Empyema Tubes, Catheters and Surgical Tubes, Invalid and Operating Cushions, Irrigators, Rectal and Vaginal Pipes, Breast Pumps, Hemometers, Hemacytometer Outfits, Blood Lancets, Skin or Glass Marking.

Claims use since Apr. 15, 1946.

Ser. No. 627,414. The Wella Corporation, New York, N. Y. Filed Apr. 1, 1952.

WELLA

Applicant claims ownership of Registrations Nos. 294,330, 294,360, and 296,728.

For Electrical Hair Waving Machines and Clamps Comprising Part of Such Machines, Electrically Heated Caps for Drying the Hair and Non-Impregnated Pads Used in Hair Waving Operations.

Claims use since Dec. 2, 1931.

Ser. No. 628,899. American Cystoscope Makers, Inc., New York, N. Y. Filed Apr. 30, 1952. (Sec. 2f.)

RUDDOCK

For Endoscopic Instruments—Namely, Peritoneoscopes and Components Thereof.

Claims use since July 1937.

Ser. No. 629,755. Harold J. Thompson, doing business as H. & L. Laboratories, Minneapolis, Minn. Filed May 15, 1952.

Occlusal Facetor

Applicant in the above entitled application hereby disclaims the term "Occlusal" apart from its use with the whole trade-mark "Occlusal Facetor."

For Dental Articulators.

Claims use since Oct. 10, 1951.

Ser. No. 636,787. George P. Kempel, doing business under the name of Shush Mfg. Co., Akron, Ohio. Filed Oct. 17, 1952.

Shush

For Combination Package Containing Disposable Syringe, Disposable Douche Bag, and Douche Chemical Preparations for Use in Same.
Claims use since on or about Oct. 1, 1952.

Ser. No. 637,816. James E. Cheneweth, National City, Calif. Filed Nov. 8, 1952.

Nox-A-Col

For Therapeutic Chest Pads.
Claims use since Nov. 3, 1952.

Ser. No. 638,874. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filed Dec. 2, 1952.

CERTICEM

For Dental Cement in Powder and Liquid Form.
Claims use since 1939.

Ser. No. 638,876. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filed Dec. 2, 1952.

KALGINATE

For Dental Impression Material in Powder Form.
Claims use since 1948.

Ser. No. 639,657. Propper Manufacturing Company, Inc., Long Island City, N. Y. Filed Dec. 17, 1952.

Serature

For Wound Clips.
Claims use since during the month of November 1941.

Ser. No. 639,885. Kaye Thermometer Corporation, Brooklyn, N. Y. Filed Dec. 22, 1952.

KAYE "PERMA-BLACK"

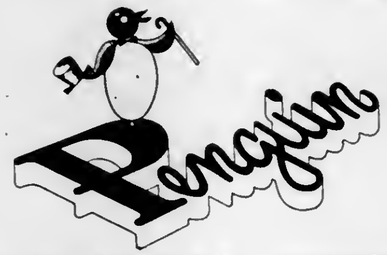
The words "Kaye" and "Black" are disclaimed apart from the mark as shown.
For Clinical Thermometers—Namely, Oral, Rectal, and Stubby Varieties.
Claims use since Oct. 8, 1952.

Ser. No. 639,980. Theodore H. Bernstein, doing business under the name and style of Ted Bernstein Associates, New York, N. Y. Filed Dec. 24, 1952.

TWEENEX

For Dental Products—Namely, Dental Floss.
Claims use since Nov. 21, 1952.

Ser. No. 640,513. Leo J. Griffs, Broward County Air Port, Fla., assignor to United Specialties Company, Chicago, Ill., a corporation of Delaware. Filed Jan. 8, 1953.




The drawing is stippled in part to illustrate shading.
For Hair Driers.
Claims use since Mar. 17, 1948.

Ser. No. 640,709. Martin Staunt, doing business as Midwest Dental Manufacturing Co., Chicago, Ill. Filed Dec. 26, 1952.

Dura MD Chrome

The word "Chrome" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 349,338.
For Dental Hand Pieces.
Claims use since Jan. 15, 1951.

Ser. No. 641,723. Joseph Guy, Quincy, Mass. Filed Feb. 4, 1953.

Pedi-Mats

For Plastic Foot Pads.
Claims use since Jan. 5, 1952.

Ser. No. 643,662. Densco, Incorporated, Denver, Colo. Filed Mar. 16, 1953.




The mark consists of the capital letters "A" and "F," symbolizing the term "Anti-Friction," formed and conjoined as shown centrally within a conventionalized representation of a ball bearing unit.
For Dental Handpieces.
Claims use since Feb. 27, 1953.

Ser. No. 644,705. Zenith Radio Corporation, Chicago, Ill. Filed Apr. 3, 1953.

ROYAL —T—

Applicant claims ownership of Registrations Nos. 533,267 and 553,555.
For Electrical Hearing Aids and Parts Thereof.
Claims use since Feb. 4, 1953.



Ser. No. 646,093. Abbott Laboratories, North Chicago, Ill. Filed Apr. 29, 1953.

VENOSET

Applicant claims ownership of Registrations Nos. 534,360, 535,146, and 537,404.
For Disposable Venoclysis Set Consisting of a Closure Piercing Needle, Drip Chamber, Flexible Tubing With Intravenous Needle or Needle Adapter, and Pinch Clamp.
Claims use since Apr. 13, 1953.

Ser. No. 646,242. Maude M. Thornton, Buffalo, N. Y. Filed Apr. 30, 1953.

"PAUSETTES"

For Catamenial Napkins.
Claims use since June 1946.

## CLASS 45

## SOFT DRINKS AND CARBONATED WATERS

Ser. No. 631,216. Nedick's, Inc., New York, N. Y., assignor to Cantrell & Cochrane Corporation, a corporation of Delaware. Filed June 14, 1952.

COOLA COLA

The word "Cola" per se is disclaimed except when used in conjunction with the fanciful word "Coola."
For Non-Alcoholic, Maltless, Cola Flavored Beverage.
Claims use since May 25, 1952.

Ser. No. 640,929. Foremost Dairies, Inc., Jacksonville, Fla. Filed Jan. 19, 1953.

FOREMOST

Applicant claims ownership of Registrations Nos. 301,356 and 360,949.
For Orangeade.
Claims use since March 1935.

## CLASS 46

## FOODS AND INGREDIENTS OF FOODS

Ser. No. 596,813. Bernhardt Stahmer, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Filed May 3, 1950.




For Potato Chips.
Claims use since on or about Mar. 10, 1948.

Ser. No. 596,877. Bernhardt Stahmer, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Filed May 4, 1950.




For Potato Chips.
Claims use since on or about Mar. 10, 1948.

Ser. No. 603,052. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware. Filed Sept. 1, 1950.

EXALTONE

Applicant claims ownership of Registrations Nos. 236,145 and 559,295.
For Natural and Synthetic Food Flavors—Namely, Extracts, Essential Oils, Concentrates, and Aromatic Chemicals.
Claims use since Mar. 1, 1950.

Ser. No. 607,172. The E. Kahn's Sons Company, Cincinnati, Ohio. Filed Dec. 1, 1950. (Sec. 2f.)

Dainty Link

Applicant disclaims the exclusive right to use the word "Link" except in the connection shown. Applicant claims ownership of Registration No. 304,916.
For Sausage.
Claims use since on or about July 11, 1923.

Ser. No. 607,546. Monroe D. Green, trading as M. D. Green Rice Milling Co., San Francisco, Calif. Filed Dec. 11, 1950.

EL CAPITAN

Applicant claims ownership of Registration No. 402,475.
For Rice.
Claims use since March 1934.

Ser. No. 617,047. Michigan Bean Company, Saginaw, Mich. Filed July 27, 1951.




The drawing is lined for red and blue. No claim is made as to colors named. Applicant claims ownership of Registrations Nos. 359,398 and 441,930.
For Lentils, Dried Peas, and Dried Beans.
Claims use since Jan. 31, 1921.

Ser. No. 617,729. Piggly Wiggly Corporation, Jacksonville, Fla. Filed Aug. 15, 1951.

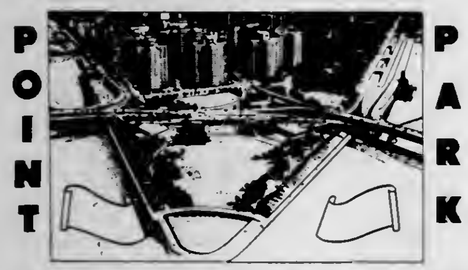


For Coffee, Tea, Fresh Eggs, Dried Beans, Peas and Rice, Dried Fruits, Canned Citrus Fruit Juices, Jams, Jellies, Fruit Preserves, Honey, Food Flavoring Extracts, Spices, Macaroni, Spaghetti, Cheese, Candy, and Candied and Unpopped Popcorn.

Claims use since June 15, 1947.

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Ser. No. 621,474. Little American Frozen Foods, Inc., Pittsburgh, Pa. Filed Nov. 20, 1951.




The stippling in connection with the words "Point Park" is for shading only.

For Frozen Vegetables—Namely, Brussels Sprouts, Chopped Spinach, Whole Leaf Spinach, Succotash, Peas and Carrots, Baby Lima Beans, Cut Yellow Corn, Cauliflower, Mixed Vegetables, Cut Green Beans, and Fordhook Lima Beans.

Claims use since Sept. 10, 1951.

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Ser. No. 627,766. Northern Milling Company, Wausau, Wis. Filed Apr. 8, 1952. (Sec. 2f.)



The map representation is an outline of the State of Wisconsin. Applicant claims ownership of Registrations Nos. 143,239 and 208,366.

For Dairy, Cattle, Stock, Swine, Pigeon, and Horse Feeds; Calf Meal; Poultry Scratch Feeds, Mashes, Pellets, and Crumbles.

Claims use since May 1916.

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Ser. No. 632,030. The Griffith Laboratories, Inc., Chicago, Ill. Filed July 1, 1952.

**TROPIC BRAND HAM**

No claim is made to the words "Brand" and "Ham" apart from the mark as shown.

For Canned Ham.

Claims use since Feb. 18, 1952.

Ser. No. 636,145. Norris Inc., Atlanta, Ga. Filed Oct. 3, 1952. (Sec. 2f as to the word "Norris.")

NORRIS-IZED

Applicant claims ownership of Registrations Nos. 519,203, 523,658, 534,905, and others.

For Candy.

Claims use since Sept. 2, 1952; and since July 13, 1910, as to "Norris."

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Ser. No. 636,263. Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Filed Oct. 6, 1952.




Applicant claims ownership of Registration No. 245,567.

For Cakes, Cookies, and Crackers.

Claims use since Nov. 19, 1951.

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Ser. No. 636,610. Sau-Sea Foods, Inc., Yonkers, N. Y. Filed Oct. 14, 1952.




No claim is made to the word "Sea" apart from the mark as shown.

For Frozen Cooked Shrimp; Canned Shrimp Cocktail; Shrimp Cocktail Sauce.

Claims use since Mar. 1, 1948.

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Ser. No. 636,956. The Procter & Gamble Company, Cincinnati, Ohio. Filed Oct. 21, 1952.

pertex

For Shortening Consisting of a Combination of Animal and Vegetable Fats.

Claims use since Sept. 18, 1952.



Ser. No. 638,193. Clemente Jacques y Cia. S. A., Mexico City, Mexico. Filed Nov. 17, 1952.



Applicant claims ownership of Registration No. 266,461.

For Canned Chiles, Pickles, and Canned Fruits—Namely, Guayabas, Mangoes, Pineapples, Quinces, Guavas, and Papaw.

Claims use since Apr. 20, 1904; and since Apr. 20, 1904, in commerce between foreign nations and the United States.

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Ser. No. 638,347. Bird Provision Co., Pekin, Ill. Filed Nov. 20, 1952.




The word "Farm" is disclaimed apart from the mark as shown on the drawing.

For Pork Sausage.

Claims use since Feb. 2, 1949.

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Ser. No. 639,407. Jean Bart & Co. Inc. Import-Export, Cliffside Park, N. J. Filed Dec. 13, 1952.




The representation of the girl is fanciful.

For Canned Tomatoes, Canned Tomato Paste, Cheese for Grating Purposes, and Macaroni.

Claims use since Mar. 18, 1952.

Ser. No. 639,982. Cudahy Brothers Co., Cudahy, Wis. Filed Dec. 24, 1952.

PATRICK CUDAHY

Patrick Cudahy is the name of one of the deceased founders of Cudahy Brothers Co.

For Bacon.

Claims use since Nov. 17, 1952.

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Ser. No. 639,983. Cudahy Brothers Co., Cudahy, Wis. Filed Dec. 24, 1952.




Patrick Cudahy is the name of one of the deceased founders of Cudahy Brothers Co.

For Bacon.

Claims use since Nov. 17, 1952.

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Ser. No. 641,125. Chism Ice Cream Co., Inc., doing business as Chism Ice Cream Co., Reno, Nev. Filed Jan. 22, 1953. (Sec. 2f.)

Chism

For Ice Cream and Sherbet.

Claims use since on or about June 15, 1905.

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Ser. No. 641,416. Safeway Stores, Incorporated, Oakland, Calif. Filed Jan. 26, 1953.

Jane Arden

The mark is fanciful and does not represent the name of any living person.

For Cookies.

Claims use since Nov. 3, 1952.

Ser. No. 642,909. The Southern Cotton Oil Company, New Orleans, La. Filed Feb. 27, 1953.

mfb heavy-duty

Applicant claims ownership of Registration No. 167,017.
For Vegetable Shortening or Fat Composed of Fatty Oleaginous or Unctuous Food Substances.
Claims use since Sept. 1, 1939.

Ser. No. 642,948. Comer Produce Company, Phoenix, Ariz. Filed Mar. 2, 1953. (Sec. 2f.)

COMER

Applicant claims ownership of Registration No. 409,206.
For Fresh Vegetables and Melons.
Claims use since June 22, 1943.

Ser. No. 643,537. Consolidated Products Company, Danville, Ill. Filed Mar. 12, 1953.

HIDROLEX

For Prepared Animal Feed for Livestock and Poultry.
Claims use since Feb. 27, 1953.

## CLASS 48

### MALT BEVERAGES AND LIQUORS

Ser. No. 602,894. Delano Corporation of America, New York, N. Y. Filed Aug. 29, 1950.

Fortaleza

For Porter or Malt Liquor of the Fermented Type.
Claims use since Aug. 16, 1950.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Ser. No. 546,244. Societe Anonyme de la Vieille Cure de Cenon, Cenon, France. Filed Jan. 5, 1948.




Lining is for shading. Apart from the mark as shown in the drawing, the wording therein, excepting the letters "M. A. B.," is disclaimed.

Applicant claims ownership of French Registration No. 43,606, dated Dec. 2, 1946; and United States Registration No. 97,567.
For Alcoholic Cordials and Liqueurs.
Claims use since Sept. 30, 1946; and since Sept. 30, 1946, in commerce between foreign nations and the United States.

Ser. No. 634,575. Jack Daniel Distillery, Lem Motlow, Prop., Inc., Lynchburg, Tenn. Filed Aug. 28, 1952.

JACK DANIEL'S

Jack Daniel was applicant's predecessor, now deceased. Applicant claims ownership of Registrations Nos. 298,102, 323,914, and others.
For Whiskey.
Claims use since 1875.

Ser. No. 642,050. Schenley Distillers, Inc., New York, N. Y. Filed Feb. 10, 1953.



For Whiskey.
Claims use since Aug. 26, 1952.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 618,517. Studio Guild Products Company, Chicago, Ill. Filed Sept. 7, 1951.

PICTABS

For Strips of Sponge Rubber Adapted To Be Attached to the Backs of Wall-Mounted Picture Frames To Prevent Their Displacement.
Claims use since Mar. 1, 1951.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Ser. No. 623,191. House of Lowell, Inc., Piqua, Ohio. Filed Jan. 4, 1952.

Lano-Lotion

No claim is made to the use of the word "Lotion" apart from the mark as shown.
For Cosmetics—Namely, Liquid Cream Lotion for the Hands and Body.
Claims use since Sept. 18, 1950.



Ser. No. 623,259. Sales Affiliates, Inc., New York, N. Y. Filed Jan. 5, 1952. (Sec. 2f.)

FLUID WAVE

For Hair Waving Lotion.
Claims use since Dec. 17, 1946.

Ser. No. 629,104. E. Frederics, Inc., Brooklyn, N. Y. Filed May 2, 1952. (Sec. 2f.)

E frederics

Applicant claims ownership of Registration No. 289,449.
For Hair Lacquer, Creme Cold Wave, Creme Vitalizer, Hair Bleach Oil and Softener, and Creme Rinse.
Claims use since August 1916.

Ser. No. 630,137. The Lambert Company, doing business as John Hudson Moore Co., Jersey City, N. J., and New York, N. Y. Filed May 23, 1952.

Sportsman C-Bar

Without waiver of its rights under common law and other statutes, applicant claims no registration rights for the word "Bar" apart from the mark shown in the drawing. Applicant claims ownership of Registrations Nos. 409,660, 392,384, and others.
For Solidified After Shaving Lotion, Cologne and Deodorant.
Claims use since May 15, 1952.

Ser. No. 631,899. Suzanne Laboratories, Inc., Paterson, N. J. Filed June 27, 1952.

DESTINE by SUZANNE

Applicant claims ownership of Registration No. 359,868.
For Perfume.
Claims use since June 15, 1950.

Ser. No. 634,793. Lucien Lelong, Inc., Chicago, Ill. Filed Sept. 3, 1952.

Big Top

For Perfumes and Colognes.
Claims use since July 24, 1952.

Ser. No. 638,080. Dorothy Morna Hargreaves, New York, N. Y. Filed Nov. 14, 1952.

Devah

For Liquid Dandruff Remover.
Claims use since Feb. 4, 1952.

Ser. No. 638,555. Stanley Home Products, Inc., Westfield, Mass. Filed Nov. 24, 1952.

President

For Cosmetics for Ladies and Gentlemen—Namely, Lipsticks, Rouges, Perfumes, Colognes, Face Powders, Deodorants, Face Creams, Facial Astringents, Face and Hand Lotions, Hair Creams for Ladies, and Hair Oils and Dressings, Perfumes, Powders, Colognes, After Shave Lotions, After Shave Tales, Deodorants, Shaving Creams, Shaving Sticks and Shaving Powders for Gentlemen.
Claims use since Oct. 28, 1952.

Ser. No. 638,556. Stanley Home Products, Inc., Westfield, Mass. Filed Nov. 24, 1952.

Lady President

For Cosmetics for Ladies—Namely, Lipsticks, Rouges, Perfumes, Colognes, Face Powders, Deodorants, Face Creams, Facial Astringents, Face and Hand Lotions, Hair Creams, Nail Polish, Mascaras, Eye Shadows, Bath Salts, Breath Purifiers, and Sachets.
Claims use since Oct. 28, 1952.

Ser. No. 641,785. Arthur F. Lane, Ridgewood, N. J. Filed Feb. 5, 1953.

CHLORO-PEP

For Chlorophyll Tooth-Paste and Ammoniated Chlorophyll Tooth-Paste.
Claims use since Nov. 6, 1952.

Ser. No. 641,879. Yardley & Company Limited, London and Stratford, London, England. Filed Feb. 6, 1953.

LAVENESQUE

Applicant claims ownership of British Registration No. 703,370, dated Dec. 12, 1951.
For Toilet Water.

Ser. No. 642,426. Robert E. Smith, Hollywood, Calif. Filed Feb. 18, 1953.

Magic LANOLIN

The word "Lanolin" is disclaimed apart from the mark as shown in the drawing.

For Liquid Lanolin Componnd for Use on Chapped, Dry, or Rough Skin, Protection Against Sunburn or Windburn, for Grooming Hair and as a Conditioner Before Shampooing.

Claims use since Jan. 22, 1953.

Ser. No. 642,545. The Hair Do Company, Chicago, Ill. Filed Feb. 20, 1953.

Hair Do

Applicant claims ownership of Registration No. 365,871. For Hair Lacquer.

Claims use since Oct. 1, 1938; and since on or about Jan. 16, 1953, as to the mark shown.

## CLASS 52

### DETERGENTS AND SOAPS

Ser. No. 613,870. The Dow Chemical Company, Midland, Mich. Filed May 15, 1951.

Dow-PER

Applicant disclaims the surname "Dow" separate and apart from the mark as shown on the drawing for the purpose of registering the present mark.

For Dry Cleaning Solvent.

Claims use since Apr. 4, 1951.

Ser. No. 628,480. Owen Postgate Fowler, doing business as Zero Soap, Victoria, British Columbia, Canada, assignor to Zero Manufacturing Co., Ltd., Victoria, British Columbia, Canada, a corporation of Canada. Filed Apr. 22, 1952.



Priority under Sec. 44(d). Canadian application filed Mar. 18, 1952, Registration No. 42,008, dated Mar. 18, 1952.

For Powdered Soap Especially Adapted for Laundering in Cool or Cold Water.

Ser. No. 629,352. Carbona Products Company, Long Island City, N. Y. Filed May 8, 1952.




No claim is made to the exclusive use of the words "Unburnable & Non-Explosive" apart from the mark as shown.

For Dry-Cleaning Preparations and Grease Solvent.

Claims use since January 1945.

Ser. No. 630,454. Stanley Home Products, Inc., Westfield, Mass. Filed May 28, 1952.

SKIN GLO

The word "Skin" is disclaimed apart from the mark as shown.

For Liquid Material for Cleansing the Pores of the Body.

Claims use since Oct. 1, 1943.

Ser. No. 631,889. Penny Spot Company, Midland, Mich. Filed June 27, 1952.

Penny Spot

Applicant disclaims the word "Spot" apart from the mark as shown.

For Spot Removing Preparations Used on Garments.

Claims use since Mar. 25, 1952.

Ser. No. 634,589. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass. Filed Aug. 28, 1952.



The representation of the girl appearing in the drawing is fanciful. Applicant claims ownership of Registration No. 551,925.

For Shampoo.

Claims use since June 19, 1952.

Ser. No. 635,418. Industrial Soap Company, St. Louis, Mo. Filed Sept. 18, 1952.

WABASH

For Cleaning Composition Such as Detergents, Soaps, Etc., for General Household Cleaning Purposes.

Claims use since July 7, 1952.



Ser. No. 636,826. G. H. Wood and Company Limited, Etobiocoke and Toronto, Ontario, Canada. Filed Oct. 17, 1952.

DIP SIL

Priority under Sec. 44(d). Canadian application filed Aug. 12, 1952, Registration No. N. S. 42,094, Register 165, dated Aug. 12, 1952. The word "Dip" is disclaimed apart from the mark as shown.

For Silver Cleaner.

Ser. No. 637,179. A. Gusmer, Inc., Hoboken, N. J. Filed Oct. 25, 1952.

CAOX

The lining shown on the drawing is for red. Color, however, is not claimed as a material feature of the mark.

For Beerstone Remover for Use in Cleaning Tanks, or the Like, in Breweries.

Claims use since Oct. 2, 1952.

Ser. No. 637,479. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Nov. 1, 1952.

PETER PAN

Applicant claims ownership of Registration No. 306,690. For Toilet Soap.

Claims use since 1910; and since Sept. 2, 1952, as to the mark shown.

Ser. No. 641,778. Hillyard Chemical Company, St. Joseph, Mo. Filed Feb. 5, 1953.

Hi-Suds

The word "Suds" is disclaimed apart from the mark as shown.

For Liquid Detergent.

Claims use since Dec. 1, 1952.

## SERVICE MARKS

## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 583,542. Magikist Service Corporation, Chicago, Ill. Filed Aug. 16, 1949.




The drawing is lined for a deep orange-red. The laudatory expression "Sweetest Job in Rug Cleaning" is disclaimed apart from the service mark herein.

For Cleaning, Dyeing, Renovating of Carpets, Rugs, and the Like.

Claims use since June 28, 1949.

## CLASS 105

### TRANSPORTATION AND STORAGE

Ser. No. 638,114. Weyerhaeuser Timber Company, Tacoma, Wash. Filed Nov. 14, 1952.




The drawing is lined to show the letter "W" in blue against a gold background.

For Transportation of General Cargo by Steamship.

Claims use since Mar. 6, 1951.

## CLASS 106

### MATERIAL TREATMENT

Ser. No. 583,542. Magikist Service Corporation, Chicago, Ill. Filed Aug. 16, 1949. (Classified in Class 103.)

The drawing is lined for a deep orange-red. The laudatory expression "Sweetest Job in Rug Cleaning" is disclaimed apart from the service mark herein.

See this serial number in Class 103 for goods and mark.

Claims use since June 28, 1949.

Ser. No. 639,474. Jordan Lumber Co., Memphis, Tenn. Filed Dec. 15, 1952.

Perma-Vac

For Chemical Treatment of Lumber To Render the Same Resistable to Rot, Termites, and Warping.

Claims use since Sept. 1, 1952.

# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1905

444,784. Oil Burners for Domestic and Industrial Use. Kres-Kno Oil Burner Manufacturing Company, Inc., Palisades Park, N. J., assignor to Kresno Stamm Manufacturing Company (America) Inc., Palisades Park, N. J., a corporation of New York.
Filed Apr. 14, 1947, Serial No. 520,633. Published Apr. 6, 1948. Class 34.

## ACT OF 1946, PRINCIPAL REGISTER

577,818. Wheat Flour, Cream Farina, Etc. Eagle Roller Mill Co., New Ulm, Minn., assignor to International Milling Company, Minneapolis, Minn., a corporation of Delaware.
Filed July 5, 1947, Serial No. 527,025. Published Jan. 31, 1950. Class 46.

577,819. Imitation Maple Flavor Syrup Made From Cane Sugar in Tin and Glass. Ten Garden Products Co., San Francisco, Calif.
Filed Sept. 16, 1947, Serial No. 534,620. Published Feb. 10, 1953. Class 46.

577,820. Fresh Citrus Fruits. Naranjo Packing House Company, Woodlake, Calif.
Filed Nov. 7, 1947, Serial No. 540,440. Published Apr. 21, 1953. Class 46.

577,821. Machine for Segregating Notched Cards. The McBee Company, Athens, Ohio.
Filed Dec. 6, 1947, Serial No. 543,620. Published May 5, 1953. Class 26.

577,822. Sofas, Chairs of the Furniture Type, and Living-Room Suites. International Furniture Company, Chicago, Ill., assignee of S. Karpen & Bros.
Filed Aug. 13, 1947, Serial No. 546,145. Published May 12, 1953. Class 32.

577,823. Refrigerated Beverage Dispensing Apparatus and Parts Thereof, Etc. Selmix Dispenser Corporation, Long Island City, N. Y., assignor, by mesne assignments, to Selmix Dispensers, Inc., a corporation of New York.
Filed Jan. 31, 1948, Serial No. 548,537. Published May 5, 1953. Class 31.

577,824. Marine Engines and Parts Thereof, Accessories Therefor—Namely, Mechanical Lever Type Throttle Control Mechanism, Etc. Osco Motors Corporation, Philadelphia, Pa.
Filed Mar. 4, 1948, Serial No. 551,193. Published Dec. 30, 1952. Class 23.

577,825. Chemical Preparations Designed To Dissolve Stoppages in Drain Pipes, Grease Traps, Floor Drains, Etc. Daniel P. Creed Co., Darby, Pa.
Filed May 27, 1948, Serial No. 557,908. Published Feb. 6, 1951. Class 52.

577,826. Dishwashing Compound. Economics Laboratory, Inc., St. Paul, Minn., assignor to Simoniz Company, Chicago, Ill., a corporation of Delaware.
Filed June 18, 1948, Serial No. 559,592. Published Sept. 23, 1952. Class 52.

577,827. Snuff. American Snuff Company, Memphis, Tenn.
Filed July 1, 1948, Serial No. 560,524. Published Apr. 1, 1952. Class 17.

577,828. Snuff. American Snuff Company, Memphis, Tenn.
Filed July 1, 1948, Serial No. 560,525. Published Apr. 1, 1952. Class 17.

577,829. Snuff. American Snuff Company, Memphis, Tenn.
Filed July 1, 1948, Serial No. 560,526. Published Apr. 1, 1952. Class 17.

577,830. Ladies' and Misses' Dresses and Suits. Herbert Sondheim, Inc., New York, N. Y.
Filed Sept. 9, 1948, Serial No. 564,909. Published May 5, 1953. Class 39.

577,831. Screen Process Materials—Namely, Silk Screen Process Paints, Etc. Silk Screen Supplies, Inc., Brooklyn, N. Y.
Filed Apr. 23, 1949, Serial No. 577,616. Published May 5, 1953. Class 16.

577,832. Corrosion Control Composition Comprising a Paint for Metal, Wood, and Concrete Structures. Maintenance Inc., Wooster, Ohio.
Filed May 9, 1949, Serial No. 578,457. Published May 5, 1953. Class 16.

577,833. Spraying and Dusting Machines for Applying Insecticides to Plants. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed May 19, 1949, Serial No. 579,088. Published Apr. 1, 1952. Class 23.

577,834. Lipsticks. Paul Baudecroux, by rescindment of vesting order from L'Administration de L'Enregistrement des Domaines et du Timbre, Paris and Vichy, France.
Filed June 18, 1949, Serial No. 580,728. Published Aug. 26, 1952. Class 51.

577,835. Metal Spring Wire Pads Used in Articles of Furniture—Namely, in Mattresses and Cushions. Flex-O-Lators, Inc., Carthage, Mo.
Filed June 20, 1949, Serial No. 580,779. Published May 5, 1953. Class 32.

577,836. Men's Suits, Topcoats, Overcoats, Neckties, Outer Shirts, Garters, Suspenders, Stockings, Hats, and Shoes. Gamble-Skogmo, Inc., Minneapolis, Minn.
Filed July 15, 1949, Serial No. 582,040. Published Oct. 24, 1950. Class 39.

577,837. Camera Attachments and Accessories—Namely, Photo-Flash Synchronizers, Metal Rings, and Fittings, Etc. Myron S. Jenner, doing business as Jen-Products Company, New York, N. Y.
Filed Aug. 3, 1949, Serial No. 582,918. Published Mar. 17, 1953. Class 26.

577,838. Internal Combustion Engine and Automotive Accessories and Parts — Namely, Carburetors, Fuel Pumps, and Parts Thereof, Etc. Carter Carburetor Corporation, St. Louis, Mo.
Filed Oct. 28, 1949, Serial No. 586,956. Published Apr. 21, 1953. Class 23.

577,839. Variable Speed Gears Embodying Chain Shifting Mechanism for Use on Cycles. Cyrlo Gear Company Limited, Birmingham, Warwickshire, England.
Filed Dec. 21, 1949, Serial No. 589,710. Published Jan. 13, 1953. Class 23.





577,840. Low Pressure Gas Fuel System Comprising a Pressure Tank, Regulator, Mixer, and Vaporizer for Dispensing Butane, Propane, and Other Low Pressure Gases and Commercial Mixtures Thereof, To Supply Fuel to Such Appliances as Heating Stoves, Cooking Stoves, and the Like. KeyStone-Fleming, Inc., Lubbock, Tex.
Filed Mar. 1, 1950, Serial No. 593,225. Published Apr. 21, 1953. Class 34.

577,841. Waterpaints. Wesco Waterpaints, Inc., Berkeley, Calif.
Filed Mar. 6, 1950, Serial No. 593,509. Published May 5, 1953. Class 16.

577,842. Combined Range Coupled Flash Calculator, Exposure Meter, and Range Finder. Utilitron Incorporated, New York, N. Y., assignor to Products Engineering Laboratories Co., Inc., Newark, N. J., a corporation of New Jersey.
Filed Mar. 30, 1950, Serial No. 594,930. Published Mar. 17, 1953. Class 26.

577,843. Silverplated Flat and Hollow Tableware. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed Mar. 31, 1950, Serial No. 594,984. Published July 1, 1952. Class 28.

577,844. Linseed Oil and Turpentine for Use in Paints, Painters' Thinner and Solvent, Naphtha, Oleum Spirits, Mineral Spirits, Paraffin Oil, Creosote, Creosote Shingle Stain Oil, Alcohol, and Lacquer Thinner for Use in Paints or Other Protective or Decorative Contings, or as Ingredients Thereof. United Sash & Door Company, Wichita, Kans.
Filed Apr. 12, 1950, Serial No. 595,629. Published May 5, 1953. Class 16.

577,845. Electrically Operated Machine Employing Infrared Light Source for Producing Copies of Printed or Pictorial Matter by Means of Heat-Sensitive Paper. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed May 4, 1950, Serial No. 596,859. Published Mar. 17, 1953. Class 26.

577,846. Table Knives, Paring Knives, Bread Knives, Hunting Knives, Fishing Knives, and Pocket Knives. Colonial Knife Company, Inc., Providence, R. I.
Filed May 6, 1950, Serial No. 596,983. Published Jan. 20, 1953. Class 23.

577,847. Plummet-Type Density Measuring, Density Indicating, and Density Controlling Instruments, Etc. Precision Thermometer & Instrument Company, Philadelphia, Pa.
Filed May 29, 1950, Serial No. 598,322. Published Mar. 17, 1953. Class 26.

577,848. Roofing Materials, More Particularly Materials for Incorporation in Composite Built-Up Roofs, and Specifically Roofing Membranes, Roofing Mastic Comprising a Fatty Acid Pitch, and Granite, Gravel, and Marble Snow for Incorporation in Built-Up Roofs. Aluminum Building Products, Incorporated, Jacksonville, Fla.
Filed June 9, 1950, Serial No. 598,821. Published Apr. 28, 1953. Class 12.

577,849. Flat Paints. Arthur C. Mangels Industries, Philadelphia, Pa.
Filed July 27, 1950, Serial No. 601,329. Published May 5, 1953. Class 16.

577,850. Fluorescent Paint. Lawter Chemicals, Inc., Chicago, Ill.
Filed Aug. 26, 1950, Serial No. 602,810. Published May 5, 1953. Class 16.

577,851. Children's Slacks, Pants, and Leggings. Horowitz & Efron, Inc., New York, N. Y.
Filed Sept. 8, 1950, Serial No. 603,616. Published Apr. 21, 1953. Class 39.

577,852. Cigarettes. Brown & Williamson Tobacco Corporation, Louisville, Ky.
Filed Sept. 20, 1950, Serial No. 603,759. Published May 12, 1953. Class 17.

577,853. Liquid Soap Making Unit Comprising a Tank Equipped With a Steam-Operated Circulator. G. H. Bishop Company, Chicago, Ill.
Filed Oct. 3, 1950, Serial No. 604,352. Published Apr. 21, 1953. Class 34.

577,854. Racks, Stands, and Tables To Support or Transport Vacuum and Television Tubes During the Manufacture Thereof. Buck Engineering Company, Inc., Freehold, N. J.
Filed Oct. 3, 1950, Serial No. 604,354. Published May 5, 1953. Class 32.

577,855. Ladies' Stockings. Manchester Hosiery Mills, Boston, Mass.
Filed Oct. 3, 1950, Serial No. 604,374. Published May 5, 1953. Class 39.

577,856. Silver Plated Hollowware. The R. Wallace & Sons Manfg. Co., Wallingford, Conn.
Filed Oct. 5, 1950, Serial No. 604,502. Published May 12, 1953. Class 28.

577,857. Photographic Electric Flash Lighting Apparatus and Parts Thereof, Etc. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Nov. 10, 1950, Serial No. 606,212. Published Mar. 24, 1953. Class 26.

577,858. Coating Material for Forming a Strippable Plastic Protective Film. Chem Products, Inc., Hartford, Conn.
Filed Nov. 21, 1950, Serial No. 606,698. Published May 5, 1953. Class 16.

577,859. Rectangular, Slanted, Body-Supporting Board Having Therapeutical Value and Primarily Intended for Use as a Support for a Person While Exercising or Resting. William F. Courtney, doing business under the name of Beauty Lift Company, New York, N. Y.
Filed Dec. 4, 1950, Serial No. 607,244. Published Apr. 28, 1953. Class 44.

577,860. Rubber and Fabric Vehicle Tires. The Dayton Rubber Company, Dayton, Ohio.
Filed Jan. 12, 1951, Serial No. 608,700. Published May 12, 1953. Class 35.

577,861. Typewriter Ribbons, Carbon Paper, Carbonized Rolls, i. e., Etc. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio.
Filed Jan. 13, 1951, Serial No. 608,743. Published May 5, 1953. Class 11.

577,862. Women's and Children's Wearing Apparel—Namely, Dresses, Hosiery, Slips, Panties, Pajamas, Nightgowns, Blouses, Negligees, Girdles, and Brassières. Blanche Gritton, Chicago, Ill.
Filed Jan. 23, 1951, Serial No. 609,128. Published May 5, 1953. Class 39.

577,863. Field Grains—Namely, Corn for Use as Live Stock Feed. Buone Valley Farm, Defiance, Mo.
Filed Jan. 24, 1951, Serial No. 609,160. Published May 5, 1953. Class 46.

577,864. Ceramic Trays and Urns. Mary Ellen Duffy, Miami, Fla.
Filed Jan. 25, 1951, Serial No. 609,235. Published May 12, 1953. Class 30.

577,865. Meters for Measuring and Indicating the Flow of Fluids, Etc. Selas Corporation of America, Philadelphia, Pa.
Filed Jan. 27, 1951, Serial No. 609,346. Published Mar. 24, 1953. Class 26.

577,866. Chemical Products and Technical Preparations—Namely, Wood Preservers, Disinfectants, Household Germicides, Insecticides, Fungicides, and Anti-Freeze Mixture. Tennessee Products & Chemical Corporation, Nashville, Tenn.
Filed Feb. 2, 1951, Serial No. 609,571. Published May 12, 1953. Class 6.

577,867. Anti-Stripping Agent for Bituminous Mixes. Nopco Chemical Company, Harrison, N. J.
Filed Feb. 6, 1951, Serial No. 609,692. Published May 12, 1953. Class 6.

577,868. Metallic Soaps as Additives to Bituminous Compositions for Roofing or Road Surfacing. Nopco Chemical Company, Harrison, N. J.
Filed Feb. 6, 1951, Serial No. 609,693. Published May 12, 1953. Class 6.

577,869. Exercise Apparatus Comprising Bicycle Type Pedals Mounted on a Portable Metal Frame for Orthopedic Therapy, for Facilitating Early Ambulation (Surgery), for Prophylactic Therapy, and for Physiotherapy. Portable Machinery Company Incorporated, Clifton, N. J.
Filed Feb. 14, 1951, Serial No. 610,096. Published Apr. 28, 1953. Class 44.

577,870. Filter Funnels. Alfred Jäschke, Holzminden a. d. Weser, Germany.
Priority under Sec. 44(d). German Registration No. 628,455, filed May 10, 1950.
Filed Oct. 17, 1950, Serial No. 610,726. Published Mar. 31, 1953. Class 31.

577,871. Laboratory Test Engines of the Internal Combustion Type and Parts Thereof, Etc. Waukesha Motor Company, Waukesha, Wis.
Filed Mar. 6, 1951, Serial No. 610,933. Published Mar. 17, 1953. Class 26.

577,872. Dryers — Namely, Convection Dryers of the Forced Hot Air Type. Robert Holmes & Bros. Inc., Danville, Ill.
Filed Mar. 15, 1951, Serial No. 611,359. Published Apr. 21, 1953. Class 34.

577,873. Chemical Ingredients for Use in Manufacture of Baker's Preparations. California Chemical Corporation, San Bernardino, Calif.
Filed Mar. 20, 1951, Serial No. 611,559. Published May 12, 1953. Class 6.

577,874. Telephone Switching Systems and Apparatus Therefor—Namely Automatic Central Office and Rural Systems, Etc. International Telephone and Telegraph Corporation, New York, N. Y.
Filed Mar. 31, 1951, Serial No. 612,077. Published May 12, 1953. Class 21.

577,875. Preparation for Destroying Insects and Vermin. Geigy Company, Inc., New York, N. Y.
Filed Apr. 17, 1951, Serial No. 612,736. Published May 12, 1953. Class 6.

577,876. Electrical Fuses, Fuse Mountings, Bus Supports, Switches, Fusible Cut-Outs, and Metal Clad Switch Gear for Switching Centers, Primaries of Unit Sub-Stations, and Service Entrance Stations. S & C Electric Company, Chicago, Ill.
Filed Apr. 26, 1951, Serial No. 613,193. Published May 12, 1953. Class 21.

577,877. Food Storage Refrigerators. Willard L. Morrison, Lake Forest, Ill.
Filed May 15, 1951, Serial No. 613,881. Published May 5, 1953. Class 31.

577,878. Kibbled Dog Food, Dog Biscuits, and Dog Meal. Ottawa Foods, Hamilton, Mich., assignor to Dog Life Corporation, Chicago, Ill., a corporation of Michigan.
Filed June 16, 1951, Serial No. 615,282. Published May 5, 1953. Class 46.

577,879. Automotive Engine Parts—Namely, Pistons, Piston Pins, Engine Valves, Water Pumps, Automotive Transmission Gears and Differential Gears, Valve Guides, Valve Springs, Mufflers and Clamps, Tail Pipes, and Exhaust Pipes. Overseas Export Corporation, New York, N. Y.
Filed June 25, 1951, Serial No. 615,655. Published Feb. 3, 1953. Class 23.

577,880. Investment Refractory Powder for Casting Metals. Pre-Vest, Inc., Cleveland, Ohio.
Filed July 11, 1951, Serial No. 616,336. Published Apr. 21, 1953. Class 1.

577,881. Household Furniture—Namely, Rockers and Reclining Chairs. The Franklin Furniture Company, Columbiana, Ohio.
Filed July 31, 1951, Serial No. 617,144. Published May 5, 1953. Class 32.

577,882. Fluid Pressure Operated Cylinders. John A. Fox, doing business as Pathon Manufacturing Company, Cincinnati, Ohio.
Filed Aug. 3, 1951, Serial No. 617,284. Published Jan. 6, 1953. Class 23.

577,883. Thermoplastic, Rubber-Like Protective Coating Composition Which Is Applicable to Almost Any Type of Surface. Western Coating Company, Pasadena, Calif.
Filed Aug. 7, 1951, Serial No. 617,425. Published May 5, 1953. Class 16.

577,884. Women's Hosiery. M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass.
Filed Aug. 16, 1951, Serial No. 617,761. Published Apr. 28, 1953. Class 39.

577,885. Ladies' Dresses, Outer Shirts and Blouses, and Jackets. The Russell Manufacturing Company, Alexander City, Ala.
Filed Aug. 25, 1951, Serial No. 618,100. Published Apr. 28, 1953. Class 39.

577,886. Rennet Preparations in Powder, Tablet, and Liquid Form for Making Rennet Desserts. Chr. Hansen's Laboratory, Inc., Little Falls, N. Y.
Filed Sept. 21, 1951, Serial No. 619,083. Published Apr. 21, 1953. Class 46.

577,887. Rennet Preparations in Powder and Tablet Form for Making Rennet Desserts. Chr. Hansen's Laboratory, Inc., Little Falls, N. Y.
Filed Sept. 21, 1951, Serial No. 619,085. Published Apr. 21, 1953. Class 46.

577,888. Pantie Girdles. Caryl Leslie Creations, Philadelphia, Pa.
Filed Sept. 26, 1951, Serial No. 619,248. Published May 5, 1953. Class 39.

577,889. High Temperature Paints, Weather Resistant Paints, Resins for Formulating Paints, Antifloating Agents for Use in Paints. Dow Corning Corporation, Midland, Mich.
Filed Oct. 10, 1951, Serial No. 619,817. Published May 5, 1953. Class 16.

577,890. Plastic Coating Sprays for Protecting the Surfaces of Art Work and the Like. Dupli-Color Products Co., Inc., Chicago, Ill.
Filed Oct. 12, 1951, Serial No. 619,930. Published May 5, 1953. Class 16.

577,891. China Dishes. C. W. Stuart & Company, Newark, N. Y.
Filed Oct. 16, 1951, Serial No. 620,038. Published May 12, 1953. Class 30.

577,892. Men's Suits and Coats. Michaels, Stern & Company, Incorporated, Rochester, N. Y.
Filed Oct. 18, 1951, Serial No. 620,163. Published Mar. 31, 1953. Class 39.

577,893. Brassières, Bodices, Garments Comprising Camisoles and Knickers, Chemises, Corsets, Drawers, Knickers, Panties, Petticoats, Under Shirts, Under Shorts, Trunks, Socks and Stockings for Wear by Ladies and Men. Wrightwear Limited, Sutton-in-Ashfield, England.
Filed Oct. 18, 1951, Serial No. 620,182. Published May 5, 1953. Class 39.

577,894. Raisins. California Raisin Company, Fresno, Calif.
Filed Oct. 22, 1951, Serial No. 620,300. Published Apr. 21, 1953. Class 46.



577,895. Battery Chargers. The Yale & Towne Manufacturing Company, Stamford, Conn.
Filed Nov. 7, 1951, Serial No. 620,983. Published May 12, 1953. Class 21.

577,896. Internal Combustion Engine Fuel and Lubricant Dispensing Pumps, Etc. Martin & Schwartz, Inc., Salisbury, Md., assignor to The Wayne Pump Company, a corporation of Maryland.
Filed Nov. 13, 1951, Serial No. 621,155. Published Mar. 17, 1953. Class 26.

577,897. Pocket and Table Cigarette Lighters. Kay-Ess Lighter Corporation, New York, N. Y.
Filed Nov. 16, 1951, Serial No. 621,318. Published May 5, 1953. Class 8.

577,898. Watches, Watch Movements, Watch Cases, and Parts Therefor. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,038. Published Apr. 28, 1953. Class 27.

577,899. Fictional Doll-Like Characters. Talon, Inc., Meadville, Pa.
Filed Dec. 6, 1951, Serial No. 622,180. Published May 5, 1953. Class 22.

577,900. Varnishes and Synthetic Resins, Manufactured by the Applicant, for Use in Paints and Other Protective Coatings, as Ingredients in Paints and Other Protective Coatings, and as Protective Coatings Themselves. Freeman Chemical Corporation, Saukville, Wis.
Filed Dec. 14, 1951, Serial No. 622,493. Published May 5, 1953. Class 16.

577,901. Protective Spray Coating for Machinery To Prevent Rust and Paint Deterioration. H & S Sales Company, Eureka, Ill.
Filed Dec. 17, 1951, Serial No. 622,594. Published May 5, 1953. Class 16.

577,902. Photographic Apparatus—Namely, Cameras, Camera and Photographic Equipment Carrying Cases Especially Made for Such Use, Camera Flash-Synchronizer Units, Camera Lens Sunshades, Etc. Graflex, Inc., Rochester, N. Y.
Filed Dec. 28, 1951, Serial No. 622,934. Published Mar. 17, 1953. Class 26.

577,903. Rubber Sink Mats; Carpet Pads, Cushions, and Underlays. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,119. Published May 5, 1953. Class 50.

577,904. Moving-Picture and Film Slide Projectors, Cameras, Etc. De Vry Corporation, Chicago, Ill.
Filed Jan. 12, 1952, Serial No. 623,500. Published Mar. 17, 1953. Class 26.

577,905. Belting and Hose Made of Rubber. Anchor Rubber Company, Dayton, Ohio, assignor to The Anchor Rubber Company, Dayton, Ohio, a corporation of Ohio.
Filed Jan. 17, 1952, Serial No. 623,703. Published May 12, 1953. Class 35.

577,906. Sprays To Raise the Nap of Suede, or Velvet, or Downy Material. Muriel R. Keeley, New York, N. Y.
Filed Jan. 21, 1952, Serial No. 623,838. Published May 12, 1953. Class 6.

577,907. Women's Full-Fashioned Hosiery. Berkshire Knitting Mills, Wyomissing and Reading, Pa.
Filed Jan. 22, 1952, Serial No. 623,869. Published May 5, 1953. Class 39.

577,908. Indoor and Outdoor Furniture—Namely, Chairs, Tables, Chaise Longues, Love Seats, Ottomans, and Benches. John Hancock Manufacturing Company, San Diego, Calif.
Filed Jan. 22, 1952, Serial No. 623,886. Published May 5, 1953. Class 32.

577,909. Table Tops, Table Legs, Table Bases, Tables and Chairs, Cabinets, and Chair Frames. The R. G. D. Corporation, New York, N. Y.
Filed Jan. 22, 1952, Serial No. 623,909. Published Apr. 28, 1953. Class 32.

577,910. Refractory Blocks, Bricks, and Bodies of Special Shape for Furnaces. Corhart Refractories Company, Louisville, Ky.
Filed Jan. 23, 1952, Serial No. 623,951. Published Apr. 28, 1953. Class 12.

577,911. Men's Suits, Sport Coats, and Top Coats. Leonards, Fort Worth, Tex.
Filed Jan. 24, 1952, Serial No. 624,038. Published Apr. 28, 1953. Class 39.

577,912. Crushed Refractory Grains; Mortars; and Cements. Corhart Refractories Company, Louisville, Ky.
Filed Feb. 1, 1952, Serial No. 624,395. Published Apr. 28, 1953. Class 12.

577,913. Plastic Place Mats. The Ullman Company, Inc., Brooklyn, N. Y.
Filed Feb. 6, 1952, Serial No. 624,617. Published Apr. 28, 1953. Class 50.

577,914. Air Conditioning and Furnace Accessories, Particularly, Baseboard and Floor Registers, Etc. Hart & Cooley Manufacturing Co., Holland, Mich.
Filed Feb. 12, 1952, Serial No. 624,828. Published Apr. 28, 1953. Class 34.

577,915. Liquid Inhibitant for Treating Fabric To Repel Moisture and Mildew. Champion Textile Finishing Co., Chicago, Ill.
Filed Feb. 15, 1952, Serial No. 624,999. Published May 12, 1953. Class 6.

577,916. Plastic-Coated Fabric in the Nature of Oiled Cloth. Table Art Mat Corp., Brooklyn, N. Y.
Filed Feb. 15, 1952, Serial No. 625,049. Published May 12, 1953. Class 20.

577,917. Paper Drinking Straws. Malt-A-Plenty, Inc., Tulsa, Okla.
Filed Feb. 25, 1952, Serial No. 625,482. Published May 5, 1953. Class 50.

577,918. Handcuffs. J. L. Galef and Son, Inc., New York, N. Y.
Filed Feb. 29, 1952, Serial No. 625,731. Published Apr. 28, 1953. Class 25.

577,919. Tractors, Plows, Cultivators, Harrows, Seeders, Sickle Bars, Lawn Mowers, Brush and Log Saws, Rotary Weed Cutters, Snow Plows, Fertilizing Attachments for Garden Tractors and Counterweights for Garden Tractor Wheels. Simplicity Manufacturing Company, Port Washington, Wis.
Filed Mar. 3, 1952, Serial No. 625,869. Published Apr. 21, 1953. Class 23.

577,920. Filter Apparatus and Parts Thereof—Namely, Plate and Frame Type Filters, Leaf Type Filters, Etc. National Filter Corporation, New York, N. Y.
Filed Mar. 5, 1952, Serial No. 625,994. Published May 5, 1953. Class 31.

577,921. Machines for Cutting and Slicing Loaf-Like Edible Commodities and Parts Thereof. General Machinery Corporation, Sheboygan, Wis.
Filed Mar. 13, 1952, Serial No. 626,374. Published Apr. 21, 1953. Class 23.

577,922. Paint Colors and Tints in Dry Powder, Paste, and Liquid Form. The Reardon Company, St. Louis, Mo.
Filed Mar. 20, 1952, Serial No. 626,748. Published May 5, 1953. Class 16.

577,923. Canned Fruits and Canned Vegetables. Societa Generale delle Conserve Alimentari Cirio, San Giovanni a Teduccio, near Naples, Italy.
Filed Mar. 20, 1952, Serial No. 626,756. Published Apr. 21, 1953. Class 46.

577,924. Safety Glass. Globe Auto Glass Co., Chicago, Ill.
Filed Mar. 22, 1952, Serial No. 626,873. Published Apr. 28, 1953. Class 33.

577,925. Safety Glass. Globe Auto Glass Co., Chicago, Ill.
Filed Mar. 22, 1952, Serial No. 626,874. Published May 12, 1953. Class 33.

577,926. Oil Well Drilling Mud Adjuvants. Monsanto Chemical Company, St. Louis, Mo.
Filed Mar. 22, 1952, Serial No. 626,898. Published Oct. 14, 1952. Class 6.

577,927. Shortening Comprising a Mixture of Meat Fats and Vegetable Fats. Armour and Compaoy, Chicago, Ill.
Filed Mar. 28, 1952, serial No. 627,165. Published Apr. 21, 1953. Class 46.

577,928. Preparations for Cleaning and Polishing Furniture. Albert A. Syce, doing business as Margo Laboratories, Oakland, Calif.
Filed Mar. 31, 1952, Serial No. 627,361. Published May 5, 1953. Class 4.

577,929. Cutlery—Namely, Kitchen Knives. Popeil Brothers, Inc., Chicago, Ill.
Filed Apr. 1, 1952, Serial No. 627,405. Published Apr. 21, 1953. Class 23.

577,930. Pump Liners and Barrels, Water Tubes for Swivels, and Plunger Pumps. United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 2, 1952, Serial No. 627,472. Published Apr. 28, 1953. Class 23.

577,931. Watch Crystals. The American Rolex Watch Corporation, New York, N. Y.
Filed Apr. 10, 1952, Serial No. 627,859. Published Apr. 21, 1953. Class 33.

577,932. Counting Machines for Capsules, Tablets, Pellets, and the Like. Popper & Sons, Inc., doing business under the name PerfeKtum Products Co., New York, N. Y.
Filed Apr. 18, 1952, Serial No. 628,292. Published Mar. 17, 1953. Class 26.

577,933. Decorative Wall Plaques in Bas-Relief Made of, or Decorated With, Non-Precious Metals. Roberts-Jerome Associates, Brooklyn, N. Y.
Filed Apr. 26, 1952, Serial No. 628,780. Published Apr. 21, 1953. Class 50.

577,934. Pre-Cut Screens Used in Gyrating, Vibrating, and Rotating Machines for Grading and Sifting Granular, Powdery, and Viscous Materials of All Types. Western Fence & Wire Works, Oreg. Ltd., Portland, Oreg.
Filed Apr. 28, 1952, Serial No. 628,835. Published Apr. 21, 1953. Class 23.

577,935. Brooches, Bracelets, Earrings, Necklaces, Pendants, Finger Rings, and the Following Items Made in Whole of, in Part of, or Plated With Precious Metal—Namely, Tie Holders, and Cuff Links. Felch & Co. Inc., Providence, R. I.
Filed Apr. 29, 1952, Serial No. 628,853. Published Apr. 28, 1953. Class 28.

577,936. Parachlorometaxylenol, Etc. The Ottawa Chemical Company, Toledo, Ohio, assignor to The Essential Chemicals Co., Inc., Milwaukee, Wis.
Filed Apr. 29, 1952, Serial No. 628,866. Published May 12, 1953. Class 6.

577,937. Water Dispersible Sheet Used in Effectuating Dyeing or Detergent Operations. United States Testing Company, Inc., Hoboken, N. J.
Filed May 8, 1952, Serial No. 629,400. Published May 12, 1953. Class 6.

577,938. Oil Burning Lamps and Lanterns, Parts Thereof, and Globes Therefor. R. E. Dietz Company, Syracuse, N. Y.
Filed May 10, 1952, Serial No. 629,479. Published Apr. 28, 1953. Class 34.

577,939. Conjugated Estrogenic Substances Derived From Pregnant Mare's Urine. Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J.
Filed May 10, 1952, Serial No. 629,514. Published May 12, 1953. Class 18.

577,940. Radiator Hose, For Use on Motor Vehicles. The Gates Rubber Company, Denver, Colo.
Filed May 12, 1952, Serial No. 629,565. Published May 12, 1953. Class 35.

577,941. Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition Surfaces. Congoleum-Nairn Inc., Kearny, N. J.
Filed May 14, 1952, Serial No. 629,652. Published May 5, 1953. Class 20.

577,942. Wall Tile. Midland Plastic Molding Co., Sandusky, Ohio.
Filed May 16, 1952, Serial No. 629,807. Published Apr. 28, 1953. Class 12.

577,943. Paint Brushes. Golden State Brush Company, North Hollywood, Calif.
Filed May 26, 1952, Serial No. 630,265. Published May 5, 1953. Class 29.

577,944. Wall Shelf Units. Nathan Ostrow, doing business as David Woodcraft Co., New York, N. Y.
Filed May 29, 1952, Serial No. 630,511. Published May 5, 1953. Class 32.

577,945. Poultry Washing Machines. Gordon Johnson Company, Kansas City, Mo.
Filed May 31, 1952, Serial No. 630,536. Published Dec. 30, 1952. Class 23.

577,946. Oil Base Flat Wall Paint. Wm. F. Zummach, Inc., Milwaukee, Wis.
Filed May 31, 1952, Serial No. 630,561. Published May 5, 1953. Class 16.

577,947. Air Filter Bags. Pulverizing Machinery Company, Summit, N. J.
Filed June 5, 1952, Serial No. 630,791. Published May 5, 1953. Class 31.

577,948. Surgical Dressing Goods — Namely, Stitched Dressing Rolls, Stitched Cut Pads and Obstetrical Pads, All Consisting of Absorbent Filler Within a Gauze Wrapper, Etc. Will Ross, Inc., Milwaukee, Wis.
Filed June 5, 1952, Serial No. 630,796. Published Apr. 28, 1953. Class 44.

577,949. Organosiloxane Resin Paint Ingredients; Organosiloxane Fluids for Use in Paints as Anti-Silking and Anti-Flotation Agents; and Paints Containing the Aforementioned Ingredients. General Electric Company, Schenectady, N. Y.
Filed June 7, 1952, Serial No. 630,886. Published May 5, 1953. Class 16.

577,950. Organosiloxane Resin Paint Ingredients; Organosiloxane Fluids for Use in Paints as Anti-Silking and Anti-Flotation Agents; and Paints Containing the Aforementioned Ingredients. General Electric Company, Schenectady, N. Y.
Filed June 7, 1952, Serial No. 630,888. Published May 5, 1953. Class 16.

577,951. Face Cream. Rolley, Inc., also doing business as Rolley, San Francisco, Calif.
Filed June 9, 1952, Serial No. 630,958. Published Apr. 28, 1953. Class 51.

577,952. Pharmaceutical Product Containing Polyvinyl Pyrrolidone in Combination With a Mercurial Diuretic. Schenley Laboratories, Inc., New York, N. Y.
Filed June 10, 1952, Serial No. 631,025. Published May 12, 1953. Class 18.



577,953. Sterling Silver Hollowware and Sterling Silver Flatware. The Alvin Corporation, Providence, R. I.
Filed June 11, 1952, Serial No. 631,034. Published Oct. 21, 1952. Class 28.

577,954. Men's, Women's, and Children's Hosiery. Tennessee Hosiery Mills Co., Niota, Tenn.
Filed June 11, 1952, Serial No. 631,074. Published Apr. 28, 1953. Class 39.

577,955. Dishwashing Machines. James Manufacturing Company, Independence, Kans.
Filed June 13, 1952, Serial No. 631,162. Published Jan. 6, 1953. Class 23.

577,956. Machines for Testing Balance of Tires and Other Circular or Rotative Members, and Also Machines for Testing and Correcting Such Balance. Micro-Poise Engineering & Sales Company, Detroit, Mich.
Filed June 16, 1952, Serial No. 631,248. Published Mar. 24, 1953. Class 26.

577,957. Police Clubs. Peter P. Schultz, Tacoma, Wash.
Filed June 17, 1952, Serial No. 631,314. Published Jan. 13, 1953. Class 23.

577,958. Artificial Pearls. Indestructible Pearl Bead Makers, Inc., New York, N. Y.
Filed June 19, 1952, Serial No. 631,422. Published May 12, 1953. Class 28.

577,959. Anhydrous Sodium Tetraborate. Borax Consolidated, Limited, London, England, and Los Angeles, Calif.
Filed June 21, 1952, Serial No. 631,534. Published May 12, 1953. Class 6.

577,960. Sodium Tetraborate Pentahydrate. Borax Consolidated, Limited, London, England, and Los Angeles, Calif.
Filed June 21, 1952, Serial No. 631,535. Published May 12, 1953. Class 6.

577,961. Material for Use in Connection With the Washing of Textiles for Brightening and Facilitating the Rinsing of the Same. Beach Soap Company, Lawrence, Mass.
Filed June 24, 1952, Serial No. 631,646. Published May 12, 1953. Class 6.

577,962. Women's and Misses' Nightgowns, and Negligee and Nightgown Ensembles. George Beckerman, Great Neck, N. Y.
Filed June 26, 1952, Serial No. 631,781. Published May 5, 1953. Class 39.

577,963. Rodenticide. The Weevil-Cide Company, Kansas City, Mo.
Filed July 5, 1952, Serial No. 632,187. Published May 12, 1953. Class 6.

577,964. Serving Cart. Drexel Furniture Company, Drexel, N. C.
Filed July 11, 1952, Serial No. 632,419. Published May 12, 1953. Class 32.

577,965. Grass Shears. Keiser Manufacturing Company, Reading, Pa.
Filed July 11, 1952, Serial No. 632,431. Published Feb. 10, 1953. Class 23.

577,966. Weighing Balances. L. Oertling Limited, London and Orpington, England.
Filed July 12, 1952, Serial No. 632,485. Published Apr. 28, 1953. Class 26.

577,967. Poultry Plucking Machines and Parts Thereof. Gordon Johnson Company, Kansas City, Mo.
Filed July 16, 1952, Serial No. 632,615. Published Apr. 21, 1953. Class 23.

577,968. Clear or Pigmented Liquid Plastic Protective and Decorative Coating Composition. Surface Engineering Company, Inc., Wichita, Kans.
Filed July 16, 1952, Serial No. 632,635. Published May 5, 1953. Class 16.

577,969. Noise-Free Tappet Push Rod for Automobiles. Jesse T. Wright, Bountiful, Utah.
Filed July 18, 1952, Serial No. 632,765. Published Apr. 21, 1953. Class 23.

577,970. Gage Blocks. Webber Gage Company, Cleveland, Ohio.
Filed July 19, 1952, Serial No. 632,809. Published May 5, 1953. Class 20.

577,971. Endoscopic Instruments Equipped With Telescopes Having Lens Systems. National Electric Instrument Co. Inc., Elmhurst, N. Y.
Filed July 23, 1952, Serial No. 632,950. Published Apr. 28, 1953. Class 44.

577,972. Chemical Composition in Liquid, in Semi-Liquid, and in Dry Forms Prepared as an Integral Mix, Etc. Warren A. Betterly, doing business as The M. A. E. Co., Fall River, Mass.
Filed July 25, 1952, Serial No. 633,031. Published May 12, 1953. Class 6.

577,973. Pearls and Costume Jewelry—Namely, Necklaces, Earrings, Bracelets. Valerie Jewelry, Inc., New York, N. Y.
Filed July 26, 1952, Serial No. 633,130. Published May 12, 1953. Class 28.

577,974. Oil-Base, Exterior Wall Coating for Use on Stucco, Cement, Cinder Block, Concrete Block, Asbestos, Metal, Brick, Wood, and Stone. Con-Cor Paint Company, Kansas City, Mo.
Filed July 31, 1952, Serial No. 633,301. Published May 5, 1953. Class 16.

577,975. Insecticides, Fungicides Used as a Plant Spray. Cook Chemical Company, Kansas City, Mo.
Filed Aug. 4, 1952, Serial No. 633,448. Published May 12, 1953. Class 6.

577,976. Men's Suits and Coats. Stern Brothers, New York, N. Y.
Filed Aug. 5, 1952, Serial No. 633,515. Published Mar. 31, 1953. Class 39.

577,977. Cigarettes. Stephano Brothers, Philadelphia, Pa.
Filed Aug. 7, 1952, Serial No. 633,594. Published May 12, 1953. Class 17.

577,978. Haemostatic, Thumb, Tissue, Splinter, and Sponge Forceps; Gauze and Bandage Scissors, Specula; Retractors; Etc. Schueler & Co., New York, N. Y.
Filed Aug. 8, 1952, Serial No. 633,633. Published Apr. 28, 1953. Class 44.

577,979. Supports in the Form of Tripods, the Legs of Which Are Made of Metal and Adapted To Support a Bowl, a Tray, or the Like. Burn-Strauss, Inc., Los Angeles, Calif.
Filed Aug. 11, 1952, Serial No. 633,709. Published May 12, 1953. Class 32.

577,980. Bedroom and Dining Room Furniture—Namely, Dressers, Mirrors, Chests, Beds, Tables, Buffets, Corner Chinas, Servers, and Hutch Decks. Drexel Furniture Company, Drexel, N. C.
Filed Aug. 11, 1952, Serial No. 633,722. Published May 12, 1953. Class 32.

577,981. Cigars. Salvador Rodriguez, Inc., Tampa, Fla.
Filed Aug. 13, 1952, Serial No. 633,877. Published May 5, 1953. Class 17.

577,982. Wrapping Material in the Form of a Flexible Web Made of Cotton or Other Fibers and for Use Principally as an Outer Covering for Sanitary Pads. International Cellucotton Products Company, Chicago, Ill.
Filed Aug. 14, 1952, Serial No. 633,936. Published Apr. 28, 1953. Class 44.

577,983. Dressings for Power and Transmission Belting. Warren Belting Company, Inc., Worcester, Mass.
Filed Aug. 14, 1952, Serial No. 633,953. Published May 12, 1953. Class 6.

577,984. Cigars. Jno. H. Swisher & Son, Inc., Jacksonville, Fla.
Filed Aug. 19, 1952, Serial No. 634,169. Published May 5, 1953. Class 17.

577,985. Cigars. Jno. H. Swisher & Son, Inc., Jacksonville, Fla.
Filed Aug. 19, 1952, Serial No. 634,170. Published May 5, 1953. Class 17.

577,986. Cigars. Jno. H. Swisher & Son, Inc., Jacksonville, Fla.
Filed Aug. 19, 1952, Serial No. 634,172. Published May 5, 1953. Class 17.

577,987. Women's and Girls' Hosiery. Abraham Landau, New York, N. Y.
Filed Aug. 20, 1952, Serial No. 634,201. Published May 5, 1953. Class 39.

577,988. Typewriter Ribbons and Carbon Paper. American Ribbon & Carbon Co., Inc., Rochester, N. Y.
Filed Aug. 21, 1952, Serial No. 634,231. Published May 5, 1953. Class 11.

577,989. Mattresses, Bed Springs, Beds, Upholstered Chairs, Upholstered Stools, Etc. Edward Cohen, Pittsburgh, Pa.
Filed Aug. 22, 1952, Serial No. 634,299. Published May 5, 1953. Class 32.

577,990. Bulb Type Dispenser for Dispensing Medicaments. Barry Laboratories, Inc., Detroit, Mich.
Filed Aug. 25, 1952, Serial No. 634,392. Published Apr. 28, 1953. Class 44.

577,991. Synthetic Detergent Powder for Hand and Machine Washing Operations. The Knoten Company, Memphis, Tenn.
Filed Aug. 25, 1952, Serial No. 634,413. Published May 5, 1953. Class 52.

577,992. Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames. Thomas A. Friedlander, Baltimore, Md.
Filed Aug. 26, 1952, Serial No. 634,461. Published May 5, 1953. Class 32.

577,993. Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames. Thomas A. Friedlander, Baltimore, Md.
Filed Aug. 26, 1952, Serial No. 634,462. Published May 5, 1953. Class 32.

577,994. Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames. Thomas A. Friedlander, Baltimore, Md.
Filed Aug. 26, 1952, Serial No. 634,463. Published May 5, 1953. Class 32.

577,995. Ladies', and Misses' Hosiery. Hosiery Sales Company, New York, N. Y.
Filed Aug. 26, 1952, Serial No. 634,469. Published May 5, 1953. Class 39.

577,996. Hosiery for Women and Girls. Joseph Harvey Wilson, Sr., Trustee, Murphy, N. C.
Filed Aug. 26, 1952, Serial No. 634,511. Published May 5, 1953. Class 39.

577,997. Synthetic Staple Fiber. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Aug. 27, 1952, Serial No. 634,525. Published Apr. 14, 1953. Class 1.

577,998. Paper Pulp. Hammermill Paper Company, Erie, Pa.
Filed Aug. 28, 1952, Serial No. 634,591. Published Apr. 21, 1953. Class 1.

577,999. Men's Suits. Merit Clothing Company, Mayfield, Ky.
Filed Aug. 28, 1952, Serial No. 634,602. Published Apr. 7, 1953. Class 39.

578,000. Watches, Parts of Watches, Alarm Clocks. Tavannes Watch Co., Tavannes, Switzerland.
Filed Aug. 29, 1952, Serial No. 634,665. Published May 12, 1953. Class 27.

578,001. Processed Land Fowl Feathers. Alexander Smith, Incorporated, Yonkers, N. Y.
Filed Aug. 30, 1952, Serial No. 634,714. Published Apr. 21, 1953. Class 1.

578,002. Duplicating Inks, Carbon Paper, and Typewriter Ribbons. American Ribbon & Carbon Co., Inc., Rochester, N. Y.
Filed Sept. 2, 1952, Serial No. 634,725. Published May 5, 1953. Class 11.

578,003. Vaporizing Device To Facilitate Inhalation of Liquid Medicaments. Parke, Davis & Company, Detroit, Mich.
Filed Sept. 2, 1952, Serial No. 634,750. Published Apr. 28, 1953. Class 44.

578,004. Watches, Watch Cases, and Watch Movements. The Gruen Watch Company, Cincinnati, Ohio.
Filed Sept. 3, 1952, Serial No. 634,783. Published May 12, 1953. Class 27.

578,005. Watches. Joseph H. Meyer Bros., Brooklyn, N. Y.
Filed Sept. 3, 1952, Serial No. 634,797. Published Feb. 10, 1953. Class 27.

578,006. Chemical Preparation Used as a Flame Quencher. Charles J. Haas, Incorporated, Philadelphia, Pa.
Filed Sept. 4, 1952, Serial No. 634,846. Published May 12, 1953. Class 6.

578,007. Stereoscopic Cameras and Related Equipment and Accessories, as Follows: Stereoscopes, Stereoscopic Slides, Etc. David White Company, Milwaukee, Wis.
Filed Sept. 4, 1952, Serial No. 634,875. Published Apr. 28, 1953. Class 26.

578,008. Halogenated Hydrocarbon Liquid Carriers for the Dispersion of Solid Lubricants. The AP Parts Corporation, Toledo, Ohio.
Filed Sept. 8, 1952, Serial No. 634,957. Published May 12, 1953. Class 6.

578,009. Disposable, Ready-To-Use Unit for the Intravenous Administration or Withdrawal of Fluids, Consisting of a Length of Flexible Tubing With Attached Needle Adapters and Pinch Clamp. Abbott Laboratories, North Chicago, Ill.
Filed Sept. 8, 1952, Serial No. 634,958. Published Apr. 28, 1953. Class 44.

578,010. Chairs. Sturgis Posture Chair Company, Sturgis, Mich.
Filed Sept. 8, 1952, Serial No. 635,001. Published Apr. 28, 1953. Class 32.

578,011. Mattresses and Box Springs. Truman Boyles Mattress Company, Alexandria, Va.
Filed Sept. 8, 1952, Serial No. 635,007. Published May 12, 1953. Class 32.

578,012. Ready-Mixed Paint, Varnish, Enamel, or Similar Type Thinners. Socony Paint Products Company, Raritan Township, Middlesex County, N. J.
Filed Sept. 9, 1952, Serial No. 635,063. Published May 5, 1953. Class 16.

578,013. Ready-Mixed Paint, Varnish, Enamel, or Similar Type Thinners. Socony Paint Products Company, Raritan Township, Middlesex County, N. J.
Filed Sept. 9, 1952, Serial No. 635,064. Published May 5, 1953. Class 16.

578,014. Step-Ladder. Lincoln Manufacturing Company, Inc., New Windsor, Md.
Filed Sept. 10, 1952, Serial No. 635,090. Published Apr. 28, 1953. Class 50.

578,015. Step-Ladder. Lincoln Manufacturing Company, Inc., New Windsor, Md.
Filed Sept. 10, 1952, Serial No. 635,091. Published Apr. 28, 1953. Class 50.

578,016. Semi-Porcelain Salad Bowls. Waterman-White, New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,162. Published Apr. 28, 1953. Class 30.



578,017. Electric Ironing Machines. Armstrong Products Corporation, Huntington, W. Va.
Filed Sept. 12, 1952, Serial No. 635,168. Published Apr. 28, 1953. Class 24.

578,018. Glazed Saddle Leather. National Leather Products, Newark, N. J.
Filed Sept. 12, 1952, Serial No. 635,194. Published Apr. 21, 1953. Class 1.

578,019. Men's Slacks. Haggar Company, Dallas, Tex.
Filed Sept. 15, 1952, Serial No. 635,262. Published Mar. 31, 1953. Class 39.

578,020. Soft Vinyl Chloride Tubing for Further Manufacture for Use in the Industrial Arts. American Hard Rubber Company, Hempstead and New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,340. Published Apr. 21, 1953. Class 1.

578,021. Men's Suits, Sportcoats, and Outercoats. H. Freeman & Son, Inc., Philadelphia, Pa.
Filed Sept. 23, 1952, Serial No. 635,644. Published Apr. 21, 1953. Class 39.

578,022. Flat Wall Paints, Exterior House Paints, Exterior House Paint Primers, Etc. Girard Paint and Varnish Mfg. Co., Philadelphia, Pa.
Filed Sept. 23, 1952, Serial No. 635,648. Published May 5, 1953. Class 16.

578,023. Coin Operated Time Measuring and Time Controlling Switches for Electrical Apparatus and Parts Thereof. Lloyd Meter Manufacturing Company, Chicago, Ill.
Filed Sept. 23, 1952, Serial No. 635,658. Published May 12, 1953. Class 26.

578,024. Children's Dresses, and Blouses. Dubrow-Zieff, Inc., Boston, Mass.
Filed Sept. 25, 1952, Serial No. 635,748. Published Apr. 21, 1953. Class 39.

578,025. Men's Hosiery. Galax Knitting Company, Inc., Galax, Va.
Filed Sept. 25, 1952, Serial No. 635,759. Published Apr. 28, 1953. Class 39.

578,026. Men's Suits. Society Brand Clothes, Inc., Chicago, Ill.
Filed Sept. 25, 1952, Serial No. 635,793. Published Apr. 21, 1953. Class 39.

578,027. Gas-Analyzing Apparatus for Continuously and Automatically Monitoring the Contamination of Air or Other Medium to Which Said Apparatus is Exposed. Vitro Corporation of America, New York, N. Y.
Filed Sept. 25, 1952, Serial No. 635,798. Published May 12, 1953. Class 26.

578,028. Excitation Apparatus for Spectrographs. National Spectrographic Laboratories, Inc., Cleveland, Ohio.
Filed Sept. 26, 1952, Serial No. 635,843. Published May 12, 1953. Class 26.

578,029. Women's and Misses' Blouses, Dresses, Sweaters, Shirts, Skirts, Coats, Suits, Shorts, Pedal Pushers, Slacks, Jackets, Jeans, Sport Bras, Halters, and Sport Caps. W. T. Grant Company, New York, N. Y.
Filed Sept. 29, 1952, Serial No. 635,915. Published May 5, 1953. Class 39.

578,030. Combination Apron, Baby Bath Towel, and Child's Hooded Cape or Robe. Ruth Mansfield Schneider, Denver, Colo.
Filed Sept. 29, 1952, Serial No. 635,932. Published Apr. 21, 1953. Class 39.

578,031. Workdesks, Stools, Work Chairs, Posture Chairs, Linotype Operators' Chairs, Filing Stools, and Foremen's Desks. Standard Pressed Steel Co., Jenkintown, Pa.
Filed Sept. 29, 1952, Serial No. 635,939. Published May 5, 1953. Class 32.

578,032. Ladies' Hosiery. Alfred M. Frager, doing business as A. M. Frager & Co., St. Louis, Mo.
Filed Oct. 6, 1952, Serial No. 636,228. Published May 5, 1953. Class 39.

578,033. Knitting Yarns. Morell Novelty Co. Inc., New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,244. Published May 5, 1953. Class 43.

578,034. Surgical Circumcising Instruments. Abraham Z. Krohn, Brooklyn, N. Y.
Filed Oct. 7, 1952, Serial No. 636,295. Published May 12, 1953. Class 44.

578,035. Hypodermic Syringes. Daniel Gluck, Woodmere, N. Y.
Filed Oct. 10, 1952, Serial No. 636,475. Published May 12, 1953. Class 44.

578,036. Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys. J. Schoeneman, Inc., Baltimore, Md.
Filed Oct. 11, 1952, Serial No. 636,543. Published Apr. 28, 1953. Class 39.

578,037. Ladies' Hosiery. Archer Mills, Inc., Columbus, Ga.
Filed Oct. 14, 1952, Serial No. 636,580. Published May 5, 1953. Class 39.

578,038. Cigarette Lighters. Austam Manufacturing Corporation, New York, N. Y.
Filed Oct. 15, 1952, Serial No. 636,624. Published May 5, 1953. Class 8.

578,039. Ladies' Hosiery. Salom Friedman, doing business under the name of Efef Trading Company, New York, N. Y.
Filed Oct. 16, 1952, Serial No. 636,699. Published May 5, 1953. Class 39.

578,040. Chemical Preparation Designed To Be Used To Reduce the Growth of Grass and Plants. Loamium Co. of America, Harrison, N. J.
Filed Oct. 23, 1952, Serial No. 637,066. Published May 12, 1953. Class 6.

578,041. Watches (Including Pocket Watches, Wrist Watches With or Without Straps, Bands or Bracelets, Pendant Watches, Calendar Watches, and Stop-Watches) Either Stem-Wind or Automatic, Clocks, Chronometers, Chronographs, and Parts for All of the Foregoing. Omega Louis Brandt & Frère, S. A., Bienne, Switzerland.
Filed Oct. 23, 1952, Serial No. 637,074. Published Apr. 21, 1953. Class 27.

578,042. Textile Ink. John P. Nissen, Jr., Company, Glenside, Pa.
Filed Oct. 27, 1952, Serial No. 637,204. Published May 5, 1953. Class 11.

578,043. Fire-Extinguishers. Chicago Automatic Fire Control, Great Falls, Mont.
Filed Oct. 27, 1952, Serial No. 637,241. Published Apr. 21, 1953. Class 23.

578,044. Projection Screens for the Display of Light-Projected Motion and Still Pictures. Radiant Manufacturing Corp., Chicago, Ill.
Filed Oct. 29, 1952, Serial No. 637,329. Published Apr. 28, 1953. Class 26.

578,045. Women's Hosiery. Burlington Mills Corporation, Greensboro, N. C.
Filed Oct. 30, 1952, Serial No. 637,360. Published May 5, 1953. Class 39.

578,046. Watches and Watch Parts. The United States Time Corporation, Waterbury and Middlebury, Conn.
Filed Nov. 4, 1952, Serial No. 637,625. Published Apr. 21, 1953. Class 27.

578,047. Egg Candler. Vogen Luminescence Corporation, San Francisco, Calif.
Filed Nov. 4, 1952, Serial No. 637,628. Published May 5, 1953. Class 26.

577,985. Cigars. Jno. H. Swisher & Son, Inc., Jacksonville, Fla.
Filed Aug. 19, 1952, Serial No. 634,170. Published May 5, 1953. Class 17.

577,986. Cigars. Jno. H. Swisher & Son, Inc., Jacksonville, Fla.
Filed Aug. 19, 1952, Serial No. 634,172. Published May 5, 1953. Class 17.

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577,989. Mattresses, Bed Springs, Beds, Upholstered Chairs, Upholstered Stools, Etc. Edward Cohen, Pittsburgh, Pa.
Filed Aug. 22, 1952, Serial No. 634,299. Published May 5, 1953. Class 32.

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577,991. Synthetic Detergent Powder for Hand and Machine Washing Operations. The Knoten Company, Memphis, Tenn.
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577,992. Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames. Thomas A. Friedlander, Baltimore, Md.
Filed Aug. 26, 1952, Serial No. 634,461. Published May 5, 1953. Class 32.

577,993. Seating Furniture and Seating Furniture Frames—Namely, Chairs and Chair Frames, Sofas and Sofa Frames, Settees and Settee Frames. Thomas A. Friedlander, Baltimore, Md.
Filed Aug. 26, 1952, Serial No. 634,462. Published May 5, 1953. Class 32.

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Filed Aug. 26, 1952, Serial No. 634,511. Published May 5, 1953. Class 39.

577,997. Synthetic Staple Fiber. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
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577,998. Paper Pulp. Hammermill Paper Company, Erie, Pa.
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578,007. Stereoscopic Cameras and Related Equipment and Accessories, as Follows: Stereoscopes, Stereoscopic Slides, Etc. David White Company, Milwaukee, Wis.
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578,008. Halogenated Hydrocarbon Liquid Carriers for the Dispersion of Solid Lubricants. The AP Parts Corporation, Toledo, Ohio.
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578,016. Semi-Porcelain Salad Bowls. Waterman-White, New York, N. Y.
Filed Sept. 11, 1952, Serial No. 635,162. Published Apr. 28, 1953. Class 30.



578,017. Electric Ironing Machines. Armstrong Products Corporation, Huntington, W. Va.
Filed Sept. 12, 1952, Serial No. 635,168. Published Apr. 28, 1953. Class 24.

578,018. Glazed Saddle Leather. National Leather Products, Newark, N. J.
Filed Sept. 12, 1952, Serial No. 635,194. Published Apr. 21, 1953. Class 1.

578,019. Men's Slacks. Haggar Company, Dallas, Tex.
Filed Sept. 15, 1952, Serial No. 635,262. Published Mar. 31, 1953. Class 39.

578,020. Soft Vinyl Chloride Tubing for Further Manufacture for Use in the Industrial Arts. American Hard Rubber Company, Hempstead and New York, N. Y.
Filed Sept. 17, 1952, Serial No. 635,340. Published Apr. 21, 1953. Class 1.

578,021. Men's Suits, Sportcoats, and Outercoats. H. Freeman & Son, Inc., Philadelphia, Pa.
Filed Sept. 23, 1952, Serial No. 635,644. Published Apr. 21, 1953. Class 39.

578,022. Flat Wall Paints, Exterior House Paints, Exterior House Paint Primers, Etc. Girard Paint and Varnish Mfg. Co., Philadelphia, Pa.
Filed Sept. 23, 1952, Serial No. 635,648. Published May 5, 1953. Class 16.

578,023. Coin Operated Time Measuring and Time Controlling Switches for Electrical Apparatus and Parts Thereof. Lloyd Meter Manufacturing Company, Chicago, Ill.
Filed Sept. 23, 1952, Serial No. 635,658. Published May 12, 1953. Class 26.

578,024. Children's Dresses, and Blouses. Dubrow-Zieff, Inc., Boston, Mass.
Filed Sept. 25, 1952, Serial No. 635,748. Published Apr. 21, 1953. Class 39.

578,025. Men's Hosiery. Galax Knitting Company, Inc., Galax, Va.
Filed Sept. 25, 1952, Serial No. 635,759. Published Apr. 28, 1953. Class 39.

578,026. Men's Suits. Society Brand Clothes, Inc., Chicago, Ill.
Filed Sept. 25, 1952, Serial No. 635,793. Published Apr. 21, 1953. Class 39.

578,027. Gas-Analyzing Apparatus for Continuously and Automatically Monitoring the Contamination of Air or Other Medium to Which Said Apparatus is Exposed. Vitro Corporation of America, New York, N. Y.
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578,028. Excitation Apparatus for Spectrographs. National Spectrographic Laboratories, Inc., Cleveland, Ohio.
Filed Sept. 26, 1952, Serial No. 635,843. Published May 12, 1953. Class 26.

578,029. Women's and Misses' Blouses, Dresses, Sweaters, Shirts, Skirts, Coats, Suits, Shorts, Pedal Pushers, Slacks, Jackets, Jeans, Sport Bras, Halters, and Sport Caps. W. T. Grant Company, New York, N. Y.
Filed Sept. 29, 1952, Serial No. 635,915. Published May 5, 1953. Class 39.

578,030. Combination Apron, Baby Bath Towel, and Child's Hooded Cape or Robe. Ruth Mansfield Schneider, Denver, Colo.
Filed Sept. 29, 1952, Serial No. 635,932. Published Apr. 21, 1953. Class 39.

578,031. Workdesks, Stools, Work Chairs, Posture Chairs, Linotype Operators' Chairs, Filing Stools, and Foremen's Desks. Standard Pressed Steel Co., Jenkintown, Pa.
Filed Sept. 29, 1952, Serial No. 635,939. Published May 5, 1953. Class 32.

578,032. Ladies' Hosiery. Alfred M. Frager, doing business as A. M. Frager & Co., St. Louis, Mo.
Filed Oct. 6, 1952, Serial No. 636,228. Published May 5, 1953. Class 39.

578,033. Knitting Yarns. Morell Novelty Co. Inc., New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,244. Published May 5, 1953. Class 43.

578,034. Surgical Circumcising Instruments. Abraham Z. Krohn, Brooklyn, N. Y.
Filed Oct. 7, 1952, Serial No. 636,295. Published May 12, 1953. Class 44.

578,035. Hypodermic Syringes. Daniel Gluck, Woodmere, N. Y.
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Filed Oct. 16, 1952, Serial No. 636,699. Published May 5, 1953. Class 39.

578,040. Chemical Preparation Designed To Be Used To Reduce the Growth of Grass and Plants. Loamium Co. of America, Harrison, N. J.
Filed Oct. 23, 1952, Serial No. 637,066. Published May 12, 1953. Class 6.

578,041. Watches (Including Pocket Watches, Wrist Watches With or Without Straps, Bands or Bracelets, Pendant Watches, Calendar Watches, and Stop-Watches) Either Stem-Wind or Automatic, Clocks, Chronometers, Chronographs, and Parts for All of the Foregoing. Omega Louis Brandt & Frère, S. A., Bienne, Switzerland.
Filed Oct. 23, 1952, Serial No. 637,074. Published Apr. 21, 1953. Class 27.

578,042. Textile Ink. John P. Nissen, Jr., Company, Glenside, Pa.
Filed Oct. 27, 1952, Serial No. 637,204. Published May 5, 1953. Class 11.

578,043. Fire-Extinguishers. Chicago Automatic Fire Control, Great Falls, Mont.
Filed Oct. 27, 1952, Serial No. 637,241. Published Apr. 21, 1953. Class 23.

578,044. Projection Screens for the Display of Light-Projected Motion and Still Pictures. Radiant Manufacturing Corp., Chicago, Ill.
Filed Oct. 29, 1952, Serial No. 637,329. Published Apr. 28, 1953. Class 26.

578,045. Women's Hosiery. Burlington Mills Corporation, Greensboro, N. C.
Filed Oct. 30, 1952, Serial No. 637,360. Published May 5, 1953. Class 39.

578,046. Watches and Watch Parts. The United States Time Corporation, Waterbury and Middlebury, Conn.
Filed Nov. 4, 1952, Serial No. 637,625. Published Apr. 21, 1953. Class 27.

578,047. Egg Candler. Vogen Luminescence Corporation, San Francisco, Calif.
Filed Nov. 4, 1952, Serial No. 637,628. Published May 5, 1953. Class 26.

578,048. Apparatus for Measuring Distances by Reflected Sound Waves or by Similar Acoustic Methods—Namely, for Apparatus for Determining Depths of Water and Soundings. Raytheon Manufacturing Company, Newton, Mass.
Filed Nov. 6, 1952, Serial No. 637,719. Published May 5, 1953. Class 26.

578,049. Machines for Exposing and Developing White Prints, Brown-Line Prints, and Similar Types of Reproductions. Paragon-Revolute Corporation, Rochester, N. Y.
Filed Nov. 5, 1952, Serial No. 637,668. Published May 5, 1953. Class 26.

578,050. Plastic Coated Wallboard for Construction Purposes. Bolta Products Sales, Inc., Lawrence, Mass.
Filed Nov. 7, 1952, Serial No. 637,746. Published Apr. 28, 1953. Class 12.

578,051. Miniature Receivers. New York Technical Institute, Cincinnati, Ohio.
Filed Nov. 7, 1952, Serial No. 637,786. Published May 12, 1953. Class 21.

578,052. Self-Cleaning Mechanical Dust Collectors of the Dry Tubular Stocking Type. American Air Filter Company, Inc., Louisville, Ky.
Filed Nov. 8, 1952, Serial No. 637,811. Published May 5, 1953. Class 31.

578,053. Plastic Place Mats. Placematters, Inc., New York, N. Y.
Filed Nov. 8, 1952, Serial No. 637,837. Published Apr. 21, 1953. Class 50.

578,054. Mattresses, Box Springs, and Headboard Bed Combinations. Slumberland Products Co., Waltham, Mass.
Filed Nov. 10, 1952, Serial No. 637,890. Published May 12, 1953. Class 32.

578,055. Mattresses, Box Springs, and Headboard Bed Combinations. Slumberland Products Co., Waltham, Mass.
Filed Nov. 10, 1952, Serial No. 637,891. Published May 12, 1953. Class 32.

578,056. Fungicide for Control of Plant Diseases. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Nov. 12, 1952, Serial No. 637,945. Published May 12, 1953. Class 6.

578,057. Fungicide for Control of Plant Diseases. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Nov. 12, 1952, Serial No. 637,946. Published May 12, 1953. Class 6.

578,058. Fungicide for Control of Plant Diseases. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Nov. 12, 1952, Serial No. 637,947. Published May 12, 1953. Class 6.

578,059. Fungicide for Control of Plant Diseases. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Nov. 12, 1952, Serial No. 637,948. Published May 12, 1952. Class 6.

578,060. Cigars. Cuesta, Rey & Co., Tampa, Fla.
Filed Nov. 15, 1952, Serial No. 638,135. Published May 12, 1953. Class 17.

578,061. Electrophotographic Copying Machines, Cameras, Etc. The Haloid Company, Rochester, N. Y.
Filed Nov. 15, 1952, Serial No. 638,142. Published May 12, 1953. Class 26.

578,062. Sensitized Photographic Film. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Nov. 21, 1952, Serial No. 638,409. Published May 12, 1953. Class 26.

578,063. Sterling Silver Flatware and Table Cutlery. Gorham Manufacturing Company, Providence, R. I.
Filed Nov. 25, 1952, Serial No. 638,578. Published Apr. 21, 1953. Class 28.

578,064. Pretzels and Pretzel Sticks. Purity Pretzel Company, Harrisburg, Pa.
Filed Nov. 25, 1952, Serial No. 638,604. Published May 5, 1953. Class 46.

578,065. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Nov. 26, 1952, Serial No. 638,644. Published Apr. 21, 1953. Class 28.

578,066. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Nov. 28, 1952, Serial No. 638,711. Published Apr. 21, 1953. Class 28.

578,067. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Nov. 28, 1952, Serial No. 638,712. Published Apr. 21, 1953. Class 28.

578,068. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Nov. 28, 1952, Serial No. 638,713. Published Apr. 21, 1953. Class 28.

578,069. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Nov. 28, 1952, Serial No. 638,714. Published Apr. 21, 1953. Class 28.

578,070. Brassières. The La Resista Corset Company, Bridgeport, Conn.
Filed Nov. 28, 1952, Serial No. 638,723. Published May 5, 1953. Class 39.

578,071. Hollywood Bed Legs. Victor Wood Products Co., Bangor, Mich.
Filed Nov. 28, 1952, Serial No. 638,747. Published May 12, 1953. Class 32.

578,072. Watches. Markson Bros., Boston, Mass.
Filed Dec. 1, 1952, Serial No. 638,804. Published Apr. 28, 1953. Class 27.

578,073. Mattresses. Comfort Spring Corporation, Baltimore, Md.
Filed Dec. 3, 1952, Serial No. 638,900. Published May 12, 1953. Class 32.

578,074. Disinfectant. King Research, Inc., Brooklyn, N. Y.
Filed Dec. 3, 1952, Serial No. 638,910. Published May 12, 1953. Class 6.

578,075. Organic Acid Used as an Intermediate in Chemical Syntheses. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Dec. 4, 1952, Serial No. 638,972. Published May 12, 1953. Class 6.

578,076. Sheet and Plate Glass. Shatterproof Glass Corporation, Detroit, Mich.
Filed Dec. 4, 1952, Serial No. 638,979. Published Apr. 28, 1953. Class 33.

578,077. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Dec. 5, 1952, Serial No. 639,032. Published Apr. 28, 1953. Class 28.

578,078. Quebracho Extract. The River Plate Corporation, New York, N. Y.
Filed Dec. 5, 1952, Serial No. 639,077. Published May 12, 1953. Class 6.

578,079. Thermosetting and Encapsulating Plastic Compounds for the Protection of Electronic and Electrical Components. Mitchell Rand Mfg Corp, New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,284. Published May 12, 1953. Class 6.

578,080. Glow Plug Engine Fuel. Wen-Mac Corporation, Beverly Hills, Calif.
Filed Dec. 11, 1952, Serial No. 639,352. Published May 12, 1953. Class 6.



578,081. Textile Finishing Compounds for Use in the Treatment of Fibers and Fabrics. Napco Chemical Company, Harrison, N. J.
Filed Dec. 13, 1952, Serial No. 639,439. Published May 12, 1953. Class 6.

578,082. Mattresses and Box Springs. Simmons Company, New York, N. Y.
Filed Dec. 13, 1952, Serial No. 639,444. Published May 12, 1953. Class 32.

578,083. Folding Chairs. Carolina Metal Products, Inc., Charlotte, N. C.
Filed Dec. 15, 1952, Serial No. 639,464. Published May 12, 1953. Class 32.

578,084. Wrist Watches. Hermann Becker G. m. b. H., Pforzheim, Germany.
Filed Dec. 16, 1952, Serial No. 639,549. Published Apr. 28, 1953. Class 27.

578,085. Watch Bracelets Sold Separately from the Watches. Jacoby-Bender, Inc., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,641. Published May 12, 1953. Class 28.

578,086. Watch Bracelets Sold Separately From the Watches. Jacoby-Bender, Inc., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,643. Published Apr. 28, 1953. Class 28.

578,087. Watch Bracelets Sold Separately From the Watches. Jacoby-Bender, Inc., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,644. Published May 12, 1953. Class 28.

578,088. Watch Bracelets Sold Separately From the Watches. Jacoby-Bender, Inc., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,645. Published Apr. 28, 1953. Class 28.

578,089. Fruit Cake, Stuffed Dates, Pfefferneusse Cookies, Pecan Pies, and Maple Walnut Cake. Sallie Chase, Incorporated, Newton, Conn.
Filed Dec. 20, 1952, Serial No. 639,807. Published May 5, 1953. Class 46.

578,090. Automobiles and Automobile Bodies. Hudson Motor Car Company, Detroit, Mich.
Filed Dec. 20, 1952, Serial No. 639,822. Published May 5, 1953. Class 19.

578,091. Automobiles and automobile bodies. Hudson Motor Car Company, Detroit, Mich.
Filed Dec. 20, 1952, Serial No. 639,824. Published May 5, 1953. Class 19.

578,092. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Dec. 29, 1952, Serial No. 640,117. Published Apr. 28, 1953. Class 28.

578,093. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed Dec. 29, 1952, Serial No. 640,118. Published Apr. 28, 1953. Class 28.

578,094. Washing Machines and Parts Therefor. Hoover Limited, Perivale, Greenford, England.
Filed Dec. 30, 1952, Serial No. 640,158. Published Apr. 28, 1953. Class 24.

578,095. Laundry Equipment—Namely, Laundry Washing Machines, Laundry Driers and Wringers, and Laundry Ironing Machines. Speed Queen Corporation, Ripon, Wis.
Filed Jan. 23, 1953, Serial No. 641,217. Published Apr. 28, 1953. Class 24.

578,096. Sodium Cyanide. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Jan. 27, 1953, Serial No. 641,372. Published May 12, 1953. Class 6.

578,097. Chemical Products for Use as Textile Auxiliary Agents; Flame Proofing Agents. Ciba Limited, Basel, Switzerland.
Filed Feb. 10, 1953, Serial No. 642,016. Published May 12, 1953. Class 6.

578,098. Hose Made of Rubber or Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed Feb. 19, 1953, Serial No. 642,499. Published May 12, 1953. Class 35.

578,099. Spray Hose, Valve and Plunger Leathers. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Feb. 24, 1953, Serial No. 642,649. Published May 12, 1953. Class 35.

578,100. Rubber Lagging To Be Applied to the Operating Surfaces of Pulleys To Give a Higher Coefficient of Friction Between a Pulley and Its Belt Drive. The American Pulley Company, Philadelphia, Pa.
Filed Feb. 25, 1953, Serial No. 642,724. Published May 12, 1953. Class 35.

## Certification Mark

578,101. Household Furniture—Namely, Coffee and Cocktail Tables, End Tables, Etc. William C. Pahlmann, New York, N. Y.
Filed June 1, 1949, Serial No. 579,829. Published Apr. 28, 1953. Class 32.

## Collective Marks

578,102. Fir Doors. Fir Door Institute, Tacoma, Wash.
Filed July 19, 1952, Serial No. 632,778. Published Apr. 28, 1953. Class 12.

578,103. Fir Doors. Fir Door Institute, Tacoma, Wash.
Filed July 19, 1952, Serial No. 632,779. Published Apr. 28, 1953. Class 12.

578,104. Fir Doors. Fir Door Institute, Tacoma, Wash.
Filed July 19, 1952, Serial No. 632,780. Published Apr. 28, 1953. Class 12.

578,105. Live Calves and Yearlings. Highland Hereford Breeder's Association, Marfa, Tex.
Filed Aug. 7, 1952, Serial No. 633,582. Published Apr. 21, 1953. Class 1.

578,106. Rubber Splash Guards and Rubber Automobile Mats. National Automotive Parts Association, Detroit, Mich.
Filed Aug. 25, 1952, Serial No. 634,418. Published May 5, 1953. Class 19.

# ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

578,107. (Class 12. Construction Materials.) United States Gypsum Company, Chicago, Ill. Original filed, act of 1946, Principal Register, June 12, 1948; amended to application, Supplemental Register, Jan. 2, 1952, Serial No. 559,123.

**BRACE-TITE**

For Metallic Clips for Attaching Building Boards Used in Walls and Ceilings.
Claims use since Apr. 12, 1948.

578,108. (Class 12. Construction Materials.) Blue Rock Quarry, Cumberland Mills, Maine. Original filed, act of 1946, Principal Register, Oct. 5, 1949; amended to application, Supplemental Register, Sept. 26, 1952, Serial No. 585,782.

**BLUE ROCK**

For Road Building Mixes Specifically Crushed Rock and Bitumen Mixes.
Claims use since Oct. 18, 1945.

578,109. (Class 2. Receptacles.) Northern Industries, Inc., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Nov. 17, 1949; amended to application, Supplemental Register, May 24, 1951, Serial No. 587,967.

Veri-Neet

For Plastic Combination Comb Holder Set and Bobby Pin Trays.
Claims use since January 1943.

578,110. (Class 19. Vehicles.) Aldens, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 8, 1951; amended to application, Supplemental Register, Mar. 18, 1953, Serial No. 611,009.

Hunter

For Bicycles, Motor Scooters, and Motorcycles.
Claims use since Apr. 1, 1947.

578,111. (Class 51. Cosmetics and Toilet Preparations.) Sales Affiliates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 26, 1951; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 613,194.

Anti-Relax

For Neutralizer in Cold Wave Process of Waving Hair.
Claims use since Mar. 27, 1951.

578,112. (Class 2. Receptacles.) Whitney Bros., Inc., Boston, Mass. Original filed, act of 1946, Principal Register, July 2, 1951; amended to application, Supplemental Register, May 25, 1953, Serial No. 616,001.

SURE-KOLD

For Insulated Bags Used in the Packaging of Ice Cream and Similar Frozen Edibles.
Claims use since Feb. 14, 1951.

578,113. (Class 51. Cosmetics and Toilet Preparations.) Alfred V. Marlowe, doing business under the style of Dual-Art Products Co., Denver, Colo. Original filed, act of 1946, Principal Register, July 24, 1951; amended to application, Supplemental Register, July 28, 1952, Serial No. 616,859.

STAIN—OFF

For Denture Stain Remover.
Claims use since July 3, 1951.

578,114. (Class 45. Soft Drinks and Carbonated Waters.) Ralph R. Royer, doing business as The Boston Cooler Co., Paris, Ill. Filed Aug. 9, 1951, Serial No. 617,483.

Boston COOLER

For Maltless Non-Alcoholic Soft Drink Beverages.
Claims use since about the year 1910.

578,115. (Class 51. Cosmetics and Toilet Preparations.) Robert P. Hardy, Miami, Fla. Original filed, act of 1946, Principal Register, Sept. 5, 1951; amended to application, Supplemental Register, Aug. 20, 1952, Serial No. 618,394.

sun cool

The drawing is lined for the color brown.
For Skin Lotion.
Claims use since Jan. 2, 1925.

578,116. (Class 2. Receptacles.) Comet Envelope & Paper Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 29, 1951; amended to application, Supplemental Register, Jan. 29, 1953, Serial No. 620,592.

HANDI-PULL

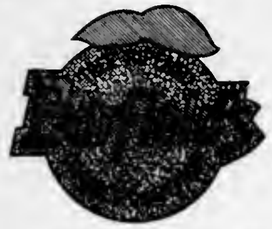
For Pliofilm Bags With Drawstrings.
Claims use since Feb. 4, 1949.

578,117. (Class 2. Receptacles.) National Waterproof Papers, Inc., Camden, N. J. Original filed, act of 1946, Principal Register, Feb. 8, 1952; amended to application, Supplemental Register, May 26, 1953, Serial No. 624,697.

TUFPAK

For Crinkled or Creped Multiwall Bags and Sacks.
Claims use since Jan. 17, 1952.

578,118. (Class 46. Foods and Ingredients of Foods.) Mrs. Blanche R. Barfield, doing business as The Barfield Groves, Polk City, Fla. Original filed, act of 1946, Principal Register, Apr. 15, 1952; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 628,087.



The drawing is lined for orange and green.
For Fresh Grape Fruit and Oranges.
Claims use since Nov. 26, 1946.



578,119. (Class 29. Brooms, Brushes, and Dusters.) S. M. Arnold, Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, Apr. 21, 1952; amended to application, Supplemental Register, Apr. 29, 1953, Serial No. 628,389.




For Car Wash Mits.
Claims use since June 5, 1951.

578,120. (Class 46. Foods and Ingredients of Foods.) The Emporia Wholesale Coffee Company, Emporia, Kans. Original filed, act of 1946, Principal Register, Apr. 26, 1952; amended to application, Supplemental Register, Jan. 19, 1953, Serial No. 628,749.

The Amazing COFFEE!

For Coffee.
Claims use since July 1, 1950.

578,121. (Class 44. Dental, Medical, and Surgical Appliances.) H. D. Justi & Son, Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 30, 1952; amended to application, Supplemental Register, Apr. 28, 1953, Serial No. 628,946.

JUSTI-FORM

For Artificial Teeth.
Claims use since on or about Apr. 22, 1952.

578,122. (Class 21. Electrical Apparatus, Machines and Supplies.) Collord, Incorporated, Detroit, Mich. Filed May 2, 1952, Serial No. 629,088.

THE Rubberclad LINE

For Dipped Rubber Weatherproofing Boots To Cover Shafts of Electrical Devices and Other Parts of Electrical Devices To Protect the Same from Corrosion and Dirt.
Claims use since May 13, 1947.

578,123. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Collord, Incorporated, Detroit, Mich. Filed May 2, 1952, Serial No. 629,089.

THE Rubberclad LINE

For Dipped Rubber Weatherproofing Boots To Cover Shafts, Levers, Links, and Springs of Industrial Equipment To Protect the same from Corrosion and Dirt.
Claims use since May 13, 1947.

578,124. (Class 21. Electrical Apparatus, Machines and Supplies.) Galvanic Products Corporation, Valley Stream, N. Y. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, May 28, 1953, Serial No. 629,106.

GALVANIX

For Rechargeable Batteries, Battery Chargers, Rectifiers.
Claims use since Apr. 21, 1952.

578,125. (Class 27. Horological Instruments.) The Richter & Phillips Company, Cincinnati, Ohio. Filed May 28, 1952, Serial No. 630,439.

LUZERNE

Applicant claims ownership of Registration No. 370,151.
For Watches.
Claims use since on or about July 5, 1938.

578,126. (Class 1. Raw or Partly Prepared Materials.) Howard Rose Company, Hemet, Calif. Original filed, act of 1946, Principal Register, June 4, 1952; amended to application, Supplemental Register, May 19, 1953, Serial No. 630,732.

HOWARDS *of* HEMET
*"Seasoned Rosebushes"*

No claim is made to the word "Rosebushes" shown in the drawing.
For Rose Bushes.
Claims use since Apr. 15, 1952.

578,127. (Class 46. Foods and Ingredients of Foods.) Alphonse Diamanti, doing business under the name Godi Products Co., East Williston, N. Y. Original filed, act of 1946, Principal Register, June 20, 1952; amended to application, Supplemental Register, Apr. 6, 1953, Serial No. 631,474.




No claim is made to the representation of the goods, or to the terms "Foods," "Pasta," and "Fa Su La" apart from the mark shown on the drawing.
For Preparation for Making Pasta E. Faggioli (Macaroni and Bean Soup, Italian Style).
Claims use since Feb. 28, 1952.

578,128. (Class 51. Cosmetics and Toilet Preparations.) David E. Gothé, New York, N. Y. Original filed, act of 1946, Principal Register, June 24, 1952; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 631,661.

Gothé

For Perfume, Toilet Water, Eau de Cologne.
Claims use since Mar. 20, 1952.

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578,129. (Class 1. Raw or Partly Prepared Materials.) American Air Filter Company, Inc., Louisville, Ky. Original filed, act of 1946, Principal Register, June 27, 1952; amended to application, Supplemental Register, May 26, 1953, Serial No. 631,841.

FILTERDOWN

For Rolls of Fiber Glass and Cotton Wadding Used for Mechanical Dry-Type Ventilating Air Filters of the Foldable Frame and Stationary Pocket Types.
Claims use since January 1950.

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578,130. (Class 4. Abrasives and Polishing Materials.) Ultra Chemical Works Inc., Paterson, N. J. Original filed, act of 1946, Principal Register, Sept. 4, 1952; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 634,874.

ULTRA GLOSS

Applicant claims ownership of Registration No. 345,149.
For Floor Waxes.
Claims use since September 1939.

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578,131. (Class 1. Raw or Partly Prepared Materials.) Hebb Leather Co., Inc., Boston, Mass. Original filed, act of 1946, Principal Register, Oct. 13, 1952; amended to application, Supplemental Register, May 22, 1953, Serial No. 636,566.

"GLUVHIDE"

For Leather.
Claims use since Apr. 11, 1951.

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578,132. (Class 22. Games, Toys, and Sporting Goods.) Michael T. Marietta, doing business as Marietta Company, Dallas, Tex. Original filed, act of 1946, Principal Register, Nov. 21, 1952; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 638,426.

MARIETTA

For Foot Ball Players' Plastic Masks.
Claims use since May 1, 1951.

578,133. (Class 6. Chemicals and Chemical Compositions.) Cardinal Products Corp., Hollywood, Fla. Original filed, act of 1946, Principal Register, Jan. 6, 1953; amended to application, Supplemental Register, May 29, 1953, Serial No. 640,390.

MILDEW STOP

For Fungistatic Composition for Eliminating Mildew in Closets and the Like.
Claims use since May 1952.

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578,134. (Class 18. Medicines and Pharmaceutical Preparations.) Pine Bros. Inc., Philadelphia, Pa. Filed Feb. 5, 1953, Serial No. 641,800.




Applicant claims ownership of Registrations Nos. 550,915, 550,916, and 556,032.
For Glycerine Tablets for Relief of Coughs Due to Common Colds, Also Dry Throat, Hoarseness, and Minor Throat Irritations Caused by Smoking or Over-Use of the Voice.
Claims use since Dec. 12, 1951.

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578,135. (Class 46. Foods and Ingredients of Foods.) Roll Packing House, Chula Vista, Calif. Filed Feb. 24, 1953, Serial No. 642,692.

OTAY MESA

For Fresh Vegetables.
Claims use since Aug. 17, 1951.

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578,136. (Class 30. Crockery, Earthenware, and Porcelain.) Cardinal China Co., Carteret, N. J. Filed Apr. 30, 1953, Serial No. 646,202.

ShrimpBoat

For China Dishes for Hors d'Oeuvres.
Claims use since February 1952.

# TRADE-MARK REGISTRATIONS RENEWED

40,330. RED STEER. Registered May 12, 1903. Swift Fertilizer Works, Chicago, Ill., and Atlanta, Ga. Renewed May 12, 1953, to Swift & Company, Chicago, Ill., a corporation of Illinois. Prepared or Manufactured Fertilizers of Commerce. Class 10.

40,892. AUXILIATOR. Registered Aug. 11, 1903. Paul Westphal. Re-renewed Aug. 11, 1953, to Paul Westphal, Inc., New York, N. Y., a corporation of New York. Perfumes. Class 51.

40,918. "DAZE" AND DESIGN. Registered Aug. 11, 1903. Gustav Scharmann. Re-renewed Aug. 11, 1953, to Paul G. Scharmann, doing business as Gustav Scharmann, New York, N. Y. Dental Burs. Class 44.

40,988. "CHIEF OSHKOSH" AND DESIGN. Registered Aug. 25, 1903. The Oshkosh Brewing Company. Renewed Aug. 25, 1953, to Oshkosh Brewing Company, Oshkosh, Wis., a corporation of Wisconsin. Beer. Class 48.

41,375. BLACKENE. Registered Oct. 27, 1903. J. L. Prescott & Co., New York, N. Y. Re-renewed Oct. 27, 1953, to J. L. Prescott Company, Passaic, N. J., a corporation of New Jersey. Stove-Polish. Class 4.

86,380. LAKEWOOD. Registered May 7, 1912. Geo. B. Carpenter & Co. Re-renewed May 7, 1952, to Geo. B. Carpenter & Co., Chicago, Ill., a corporation of Illinois. Cotton Duck. Class 42.

88,065. CONTINENTAL. Registered Aug. 27, 1912. Continental-Caoutchouc- und Gutta-Percha-Compagnie. Renewed Aug. 27, 1952, to Continental Gummiwerke Aktiengesellschaft, Hannover, Germany, a corporation organized under the laws of Germany. Sheetings of Rubber-Proofed Fabrics for Use in Vessels for Navigating the Air. Class 42.

91,449. NECTAR. Registered May 6, 1913. Aspegren & Co., New York, N. Y. Re-renewed May 6, 1953, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Cotton-Seed Oil. Class 46.

91,625. WARD. Registered May 13, 1913. Ward Baking Company, New York, N. Y., a corporation of New York. Re-renewed May 13, 1953. Bread, Rolls, Biscuits, Cakes, Cookies, and Crackers. Class 46.

91,822. "MADEMOISELLE DAINTY" AND DESIGN. Registered May 27, 1913. Valier & Spies Milling Co., St. Louis, Mo. Re-renewed May 27, 1953, to Flour Mills of America, Inc., Kansas City, Mo., a corporation of Delaware. Wheat-Flour. Class 46.

91,979. "WHITEKOTE" ETC. AND DESIGN. Registered June 10, 1913. The Moores Lime Company, Springfield, Ohio, a corporation of Ohio. Re-renewed June 10, 1953. Lime. Class 12.

92,093. REPRESENTATION OF SHADE PULL, ETC. AND DESIGN. Registered June 17, 1913. F. W. Maurer & Sons Co., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed June 17, 1953. Shade Tassels, Shade Pulls, Shade Fringe, Etc. Class 40.

92,573. GARDENGLO. Registered July 15, 1913. Solon Palmer, New York, N. Y. Re-renewed July 15, 1953, to Solon Palmer, Newark, N. J., a corporation of New York. Perfume, Toilet Water, Sachet and Complexion Powder. Class 51.

93,247. IMPERIAL. Registered Aug. 26, 1913. William S. Scull Company, Camden, N. J., a corporation of New Jersey. Re-renewed Aug. 26, 1953. Blended Coffee. Class 46.

93,731. PAY DAY. Registered Oct. 14, 1913. Klauber Wangenheim Co., San Diego, Calif., a corporation of California. Re-renewed Oct. 14, 1953. Canned Vegetables, Canned Fruits, Canned Meats, Etc. Class 46.

93,868. KNOX. Registered Oct. 21, 1913. Charles B. Knox Company. Re-renewed Oct. 21, 1953, to Charles B. Knox Gelatin Company, Inc., Johnstown, N. Y., a corporation of New York. Gelatin. Class 46.

93,894. NIAGARA. Registered Oct. 21, 1913. Niagara Overall & Pants Co. Re-renewed Oct. 21, 1953, to Niagara Apparel Co., Inc., Buffalo, N. Y., a corporation of New York. Overalls, Trousers, and Shirts. Class 39.

94,004. SPARKLING. Registered Oct. 28, 1913. Charles B. Knox Company. Re-renewed Oct. 28, 1953, to Charles B. Knox Gelatin Company, Inc., Johnstown, N. Y., a corporation of New York. Gelatin. Class 46.

250,797. "SUN-LIGHT" AND DRAWING. Registered Dec. 18, 1928. Blake Manufacturing Co., Springfield, Mass. Renewed Dec. 18, 1948, to Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts. Flash Lights. Class 21.

299,899. CALISAY. Registered Dec. 27, 1932. Juan Molifulleda Congost. Renewed Dec. 27, 1952, to Destilerias Molifulleda, S. A., Arenys de Mar, Barcelona, Spain, a corporation organized under the laws of Spain. Ethyl Alcohol, Brandies, Whiskeys, Rum, Etc. Class 49.

301,126. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Nails for Horse Shoes, Chains, Hand and Mechanically Operated Bells, Metallic Washers, Etc. Class 13.

301,127. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Paper—Namely, Wrapping Paper, Manila Paper, Document, Print Paper, Book Paper, Etc. Class 37.

301,128. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Printed Sign Boards, Printed Advertising Signs and Reproductions Such as Are Used in Schools and Factories as Instruction Material, Etc. Class 38.

301,129. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Combs, Toilet Sets Comprising Combs, Mirrors, Hair Brushes, and the Like Made of or Backed With Precious Metal, Etc. Class 40.

301,130. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Umbrellas and Canes. Class 41.

301,131. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Embroideries Sold by the Yard, Draperies of Cotton, Wool, and the Like, Ribbons and Laces Sold by the Yard. Class 42.

301,132. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Spun Yarn Fibres. Class 43.

301,133. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Surgical Plasters, Adhesive Tape, Plasters, Bandages, Manicure Outfits, Etc. Class 44.

301,134. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Mineral Waters, Non-Alcoholic, Maltless Beverages, Sold as Soft Drinks and Concentrates for Making the Same. Class 45.

301,135. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Rubber Bath Mats, Rubber Blankets, Rubber Binding for Mats, Etc. Class 50.

301,895. CHROMIX. Registered Mar. 21, 1933. Quigley Company, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 21, 1953. Plastic Neutral Base for Monolithic Construction Composed of Chrome Ore and a Suitable Plasticising Material. Class 12.

302,313. REPRESENTATION OF ARROW ETC. Registered Apr. 11, 1933. Bernard Wigder, doing business as The Wigder Manufacturing Co. Renewed Apr. 11, 1953, to The Wigder Manufacturing Co., Newark, N. J., a corporation of New Jersey. Manicure Implements—Namely, Nail Files, Tweezers, Nail Clippers, Etc. Class 44.

302,321. NEWDAY. Registered Apr. 11, 1933. Newday Seeds, Inc. Renewed Apr. 11, 1953, to Newday Seedsmen, Inc., Fargo, N. Dak., a corporation of North Dakota. All Types of Farm Seeds, Including Garden Seeds, Flower Seeds, and Field Seeds. Class 1.

302,574. "CLOSE-UPS ON THE SPORT SCREEN" ETC. AND DESIGN. Registered Apr 25, 1933. Bulletin Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Apr. 25, 1953. Newspaper Articles. Class 38.

302,823. MICROPOR. Registered May 2, 1933. The Electric Storage Battery Company, Philadelphia, Pa., a corporation of New Jersey. Renewed May 2, 1953. Electric Storage Battery Separators and Retainers. Class 21.

302,875. EOCENE. Registered May 2, 1933. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware. Renewed May 2, 1953. Kerosene. Class 15.

302,901. "STABILUS" AND DESIGN. Registered May 2, 1933. Albert Spletter, Washington, D. C. Renewed May 2, 1953. Lubricant for Watches, Chronometers, Clocks, and Other Delicate Mechanisms. Class 15.

302,936. NEONIMATER. Registered May 2, 1933. Reynolds Electric Company, Chicago, Ill. Renewed May 2, 1953, to Reynolds Electric Co., River Grove, Ill., a corporation of Illinois. Electrical Flashers and Flasher Controls. Class 21.

303,008. "MONO-BOND" AND DESIGN. Registered May 9, 1933. Quigley Company, Inc., New York, N. Y., a corporation of New York. Renewed May 9, 1953. Refractory Cement for Uniting Crushed Brick or Other Refractory Aggregate To Form Furnace Linings. Class 12.

303,021. "SHELLMAR" AND DESIGN. Registered May 9, 1933. Shellmar Products Company. Renewed May 9, 1953, to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware. Labels. Class 37.

303,312. RHYTHM KING. Registered May 23, 1933. Chicago Musical Instrument Co., Chicago, Ill., a corporation of Illinois. Renewed May 23, 1953. String Instruments—Namely, Guitars and Banjos. Class 36.

303,460. AMINOCAINE. Registered May 23, 1933. Seydel Chemical Company, Nitro, W. Va., and Jersey City, N. J. Renewed May 23, 1953, to Seydel Chemical Company, Jersey City, N. J., a corporation of New Jersey. Medicinal Compound Having Anesthetic and Antiseptic Qualities. Class 18.

303,766. "CLARET" ETC. AND DESIGN. Registered June 6, 1933. Bodegas Franco-Espanolas, Logrono, Spain, a corporation organized under the laws of Spain. Renewed June 6, 1953. Wines. Class 47.

303,857. AMEROID. Registered June 13, 1933. American Plastics Corporation, New York, N. Y., a corporation of New York. Renewed June 13, 1953. Phenol Formaldehyde, Casein Formaldehyde, Urea Formaldehyde, Etc. Class 6.

304,049. GOLDEN ARMOR. Registered June 20, 1933. Curtis Lighting, Inc., Chicago, Ill., a corporation of Illinois. Renewed June 20, 1953. Glass Reflectors. Class 33.

304,095. ALERDEX. Registered June 20, 1033. S. M. A. Corporation, Cleveland, Ohio. Renewed June 20, 1953, to American Home Products Corporation, doing business as Wyeth Laboratories, Philadelphia, Pa., a corporation of Delaware. Protein Free Maltose and Dextrins To Be Used as a Pharmaceutical Preparation Upon Prescription by Physicians. Class 18.

304,160. RIVAL. Registered June 20, 1933. The American Steel and Wire Company of New Jersey, Cleveland, Ohio, Pittsburgh, Pa., Chicago, Ill., New York, N. Y., Worcester, Mass., and Hoboken, N. J. Renewed June 20, 1953, to United States Steel Corporation, Pittsburgh, Pa., a corporation of New Jersey. Wire and Particularly Spoke Wire. Class 14.

304,471. SHELVADOR. Registered July 11, 1933. The Crosley Radio Corporation. Renewed July 11, 1953, to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware. Electrical Refrigerators for the Preservation of Foodstuffs. Class 31.

304,495. "SHELLMAR" AND DESIGN. Registered July 11, 1933. Shellmar Products Company. Renewed July 11, 1953, to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware. Wrappers, Bags, and Cartons Produced Wholly or in Part From Paper or Cellulose Sheeting. Class 2.

304,783. GALLICOL. Registered July 18, 1933. Usines de L'Allondon S. A., La Plaine, Switzerland, a corporation organized under the laws of the Confederation of Switzerland. Renewed July 18, 1953. Artificial and Synthetical Perfumes, Essential Oils. Class 51.

304,824. REPRESENTATION OF CRESCENT. Registered July 18, 1933. The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Renewed July 18, 1953. Shortenings—Namely, Cottonseed Oil for Cooking, Salad Oils, Etc. Class 46.

304,975. HITENSILOY. Registered July 25, 1933. Titan Metal Manufacturing Company, Bellefonte, Pa., a corporation of Pennsylvania. Renewed July 25, 1953. High Tensile Brass and Bronze Lavatory Handles, Bathroom Soap Dishes, Flush Valve Handles and Escutcheons. Class 13.

304,976. TINICOSIL. Registered July 25, 1933. Titan Metal Manufacturing Company, Bellefonte, Pa., a corporation of Pennsylvania. Renewed July 25, 1953. High Tensile Brass and Bronze Lavatory Handles, Bathroom Soap Dishes, Flush Valve Handles and Escutcheons. Class 13.

305,326. CAS-EVAC. Registered Aug. 15, 1933. Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Renewed Aug. 15, 1953. Laxative in Liquid Form. Class 18.



305,340. DENSITE. Registered Aug. 15, 1933. West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware. Renewed Aug. 15, 1953. Fiber Board for Electrical Insulation. Class 21.

305,377. PARAHYDRECIN. Registered Aug. 15, 1933. The Norwich Pharmacal Company, Norwich, N. Y., a corporation of New York. Renewed Aug. 15, 1953. Antiseptics and Germicides. Class 18.

305,378. Z-L. Registered Aug. 15, 1933. The Norwich Pharmacal Company, Norwich, N. Y., a corporation of New York. Renewed Aug. 15, 1953. Antiseptics, Germicides, and a Preparation for Oral Hygiene. Class 18.

305,395. 66. Registered Aug. 15, 1933. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed Aug. 15, 1953. Top Dressing for Vehicles, Trunks, Tire Covers and the Like; Dust Cloths (Chemically Treated); and for Dry Cleaning Fluid for Clothing and the Like. Class 52.

305,399. REFRESHO. Registered Aug. 15, 1933. Joe Lowe Corporation, Brooklyn, N. Y. Renewed Aug. 15, 1953, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware. Stabilizing Compound for Dough. Class 46.

305,407. GOLDEN ARMS. Registered Aug. 15, 1933. The Deisel-Wemmer Gilbert Corp. Renewed Aug. 15, 1953, to D W G Cigar Corporation, Detroit, Mich., a corporation of Ohio. Cigars. Class 17.

305,412. "EMULSO" AND DESIGN. Registered Aug. 15, 1933. Emulso Corporation, Buffalo, N. Y., a corporation of New York. Renewed Aug. 15, 1953. Preparation for Restoring the Original Lustre of Varnished and Other Surfaces. Class 6.

305,466. 66. Registered Aug. 15, 1933. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed Aug. 15, 1953. Storage Batteries. Class 21.

305,534. "ARROW" AND DESIGN. Registered Aug. 22, 1933. Greenview Manufacturing Company, Chicago, Ill., a corporation of Illinois. Renewed Aug. 22, 1953. Window Cleaners of the Squeegee Type and Parts Thereof—Namely, Handle Sockets, Rubber Wipers, and Frames Therefor. Class 29.

305,545. PHEMEROL. Registered Aug. 22, 1933. Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Renewed Aug. 22, 1953. Antiseptic and Germicide. Class 18.

305,578. NEWTON MAID. Registered Aug. 22, 1933. One Minute Washer Company, doing business as Newton Washer Co., Newton, Iowa. Renewed Aug. 22, 1953, to The Midwest Metal Stamping Company, Kellogg, Iowa, a corporation of Iowa. Laundry Washing Machines. Class 24.

305,656. 66. Registered Aug. 22, 1933. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed Aug. 22, 1953. Radiator Cleaner, Radiator Stop Leak, and Radiator Anti-Freeze, Each for Use With Automotive Vehicles; and for Insecticides. Class 52.

305,895. "R4 SHAVE" AND DESIGN. Registered Aug. 29, 1933. Max H. Berliner, doing business as Traxam Products Co., Seattle, Wash. Renewed Aug. 29, 1953, to Warren A. Betterly, Fall River, Mass. Face Conditioner To Soften the Beard for Use Before Shaving Consisting in a Liquid Chemical Compound. Class 51.

306,030. "DIAMANTE" ETC. AND DESIGN. Registered Sept. 5, 1933. Bodegas Franco-Espanolas, Logrono, Spain, a corporation organized under the laws of Spain. Renewed Sept. 5, 1953. Wines. Class 47.

306,368. CAL-BEST. Registered Sept. 19, 1933. Meyenberg Laboratories, Inc., doing business as Calbest Milk Co., Salinas, Calif. Renewed Sept. 19, 1953, to Meyenberg Milk Products Co., San Francisco, Calif., a corporation of California. Canned Evaporated Milk. Class 46.

306,379. REPRESENTATION OF PASTORAL DESIGN. Registered Sept. 19, 1933. John Morrell & Co., Ottumwa, Iowa, a corporation of Maine. Renewed Sept. 19, 1953. Pork Sausage. Class 46.

306,503. REPRESENTATION OF STOCKING LINED FOR RED. Registered Sept. 19, 1933. Milwaukee Knitting Mills, Inc., Milwaukee, Wis., assignor to Interwoven Stocking Co. Renewed Sept. 19, 1953, to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey. Hosiery. Class 39.

306,516. PARADISE. Registered Sept. 19, 1933. Bisceglia Bros., San Jose, Calif. Renewed Sept. 19, 1953, to Bisceglia Brothers Wine Co., Fresno, Calif., a corporation of California. Still Wines, Sparkling Wines, Fermented Wines, Etc. Class 47.

306,556. HERCULES TWIST. Registered Sept. 26, 1933. S. Stein & Co. Renewed Sept. 26, 1953, to S. Stein & Co., Inc., New York, N. Y., a corporation of New York. Woolen Goods in the Piece and in Cut Lengths. Class 42.

306,627. SPRAYMIST. Registered Sept. 26, 1933. Acme Chemical Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Sept. 26, 1953. Floor Dressing Used as a Floor Sweeping Compound or Stainless Dressing. Class 52.

306,737. WHITE BAND. Registered Sept 26, 1933. U. S. Phosphoric Products Corporation. Renewed Sept. 26, 1953, to Tennessee Corporation, New York, N. Y., a corporation of New York. Insecticides. Class 6.

307,061. FLEXLIFE. Registered Oct. 10, 1933. Stone-Tarlaw Co., Inc., Brockton, Mass., a corporation of Massachusetts. Renewed Oct. 10, 1953. Leather Shoes. Class 39.

307,114. STRETCHABLES. Registered Oct. 17, 1933. Kramer Brothers. Renewed Oct. 17, 1953, to Kramer Bros., Inc., New York, N. Y., a corporation of New York. Hosiery. Class 39.

307,165. MANTERRIE. Registered Oct. 17, 1933. The Manhattan Shirt Company, New York, N. Y., a corporation of New York. Renewed Oct. 17, 1953. Pull-Overs, or Sweaters. Class 39.

307,191. CREST. Registered Oct. 17, 1933. Crown Willamette Paper Company. Renewed Oct. 17, 1953, to Crown Zellerbach Corporation, San Francisco, Calif., a corporation of Nevada. Wrapping Paper. Class 37.

307,230. E. F. Registered Oct. 17, 1933. Eberhard Faber Pencil Company, Brooklyn, N. Y., a corporation of New York. Renewed Oct. 17, 1953. Lead Pencils. Class 37.

307,241. ALLEY OOP. Registered Oct. 17, 1933. The Bonnet-Brown Corporation, Chicago, Ill. Renewed Oct. 17, 1953, to NEA Service, Inc., Cleveland, Ohio, a corporation of Delaware. Comic Strips for Newspapers. Class 38.

307,311. WONDERBELT. Registered Oct. 24, 1933. Lubin-Weeker Co., Inc., New York, N. Y., a corporation of New York. Renewed Oct. 24, 1953. Pajamas. Class 39.

307,327. BRONZTAN. Registered Oct. 24, 1933. Parfumerie St. Denis, New York, N. Y. Renewed Oct. 24, 1953, to Sbulton, Inc., Clifton, N. J., a corporation of New Jersey. Beauty Creams, Cold Creams, Cleansing Creams, Etc. Class 51.

307,413. "DOESKIN" ETC. AND DESIGN. Registered Oct. 24, 1933. Jay Gee Hat Co., Inc., New York, N. Y., a corporation of New York. Renewed Oct. 24, 1953. Ladies' Hats. Class 39.

307,485. REPRESENTATION OF FRENCH BARBER HOLDING BOTTLE. Registered Oct. 24, 1933. Pinaud, Incorporated. Renewed Oct. 24, 1953, to Ed. Pinaud, Inc., New York, N. Y., a corporation of New York. Hair Tonic, Toilet Water, Bath Salts, Etc. Class 51.

# TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

**New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.**

301,791. LAWROSUEDE. Registered Mar. 14, 1933. Renewed Mar. 14, 1953. A. C. Lawrence Leather Company, Peabody, Mass. Leather. Class 1. New certificate under section 7(c) issued July 28, 1953, to Swift & Company, Chicago, Ill., a corporation of Illinois.

518,551. TELEVISION GUIDE. Registered Dec. 6, 1949. Television Guide, Inc., New York, N. Y. Printed Periodicals and Magazines. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

547,252. THE ARMCHAIR SPECTATOR. Registered Aug. 28, 1951. TeleVision Guide, Inc., New York, N. Y. Column in Printed Periodicals and Magazines. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

547,253. CHANNEL CHATTER. Registered Aug. 28, 1951. TeleVision Guide, Inc., New York, N. Y. Column in Printed Periodicals and Magazines. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

561,686. TV GUIDE. Registered July 15, 1952. Television Guide, Inc., New York, N. Y. Printed Periodicals. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

565,084. INSIDE TV. Registered Oct. 7, 1952. Television Guide, Inc., New York, N. Y. COLUMN IN PRINTED PERIODICALS AND MAGAZINES. Class 38. New certificates under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

566,461. TELEVISION HOSTESS. Registered Nov. 4, 1952. TeleVision Guide, Inc., New York, N. Y. Column in a Periodical. Class 38. New certificate under section 7(c) issued July 28, 1953, to Traingle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

568,058. SCREENING THE SPORTS. Registered Dec. 16, 1952. TeleVision Guide, Inc., New York, N. Y. Column in Printed Periodicals and Magazines. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

568,059. "YOUR TV INVESTIGATOR" AND DESIGN. Registered Dec. 16, 1952. TeleVision Guide, Inc., New York, N. Y. Column in Printed Periodicals and Magazines. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

568,060. KIDS KORNER. Registered Dec. 16, 1952. TeleVision Guide, Inc., New York, N. Y. Column in a Periodical. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

568,062. TV CLINIC. Registered Dec. 16, 1952. Television Guide, Inc., New York, N. Y. Column in a Periodical. Class 38. New certificate under section 7(c) issued July 28, 1953, to Triangle Publications, Inc., Philadelphia, Pa., a corporation of Delaware.

# TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Reg. No. 429,024. Registered Apr. 15, 1947. Engis Equipment Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

**HYPREZ**

For Abrasive Made of Precious or Semi-Precious Stone Dust.
Claims use since Apr. 1, 1942.

## CLASS 12

### CONSTRUCTION MATERIALS

Reg. No. 212,182. Registered Apr. 27, 1926. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

**VITRALOID**

For Primer, Surfacer, Glazing Putty, Lacquer Enamel, Lacquer Ground, Lacquer-Enamel Thinner, Lacquer Polish, Clear Lacquer, Lacquer Thinner, Bronzing Liquid, and Pyroxylin or Nitrocellulose Coatings.
Claims use since Apr. 4, 1925.





Reg. No. 344,132. Registered Mar. 16, 1937. The Rattenfeld Grease & Oil Corp., Kansas City, Mo., a corporation of Missouri. Republished by registrant.

**DAMIT**



For Caulking Compound.
Claims use since July 17, 1930.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 434,744. Registered Dec. 2, 1947. Latrobe Electric Steel Company, Latrobe, Pa. Republished by Latrobe Steel Company, Latrobe, Pa., a corporation of Pennsylvania.

**DESEGATIZED**

For Tool Steel.
Claims use since Mar. 3, 1947.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 79,446. Registered Sept. 6, 1910. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

**38**

For Varnish.
Claims use since about Jan. 1, 1894.

Reg. No. 79,520. Registered Sept. 13, 1910. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

**61**

For Varnish.
Claims use since about Jan. 1, 1894.

Reg. No. 79,522. Registered Sept. 13, 1910. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

**Pratt's Patent Liquid Dryer**

For Liquid Drier.
Claims use since about Jan. 1, 1858.

Reg. No. 80,196. Registered Nov. 15, 1910. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

**P.L.**

For Varnish.
Claims use since about Jan. 1, 1880.

Reg. No. 85,177. Registered Jan. 30, 1912. Pratt & Lambert, Inc., Long Island City and Buffalo, N. Y., a corporation of New York. Republished by registrant, present address Buffalo, N. Y.

**Vitralite**

For Enamels, Varnishes, Stains, Fillers.
Claims use since June 1, 1906.

Reg. No. 212,182. Registered Apr. 27, 1926. (Classified in Class 12.) Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant See this number in Class 12 for goods and mark.
Claims use since Apr. 4, 1925.

Reg. No. 394,552. Registered Apr. 14, 1942. The Scientific Oil Compounding Co., Chicago, Ill. Republished by The Scientific Oil Compounding Co. (1952), Chicago, Ill., a limited partnership.

**Q. B. OITICICA**

The word "Oiticica" is disclaimed apart from the mark as shown.
For Compound or Composition of Bodied Oiticica Oil for Use in Paints and Varnishes.
Claims use since Oct. 16, 1939.

Reg. No. 395,072. Registered May 12, 1942. The Scientific Oil Compounding Co., Chicago, Ill. Republished by The Scientific Oil Compounding Co. (1952), Chicago, Ill., a limited partnership.

**Q. B.**

For Compound or Composition of Bodied Oiticica Oil for Use in Paints and Varnishes.
Claims use since June 27, 1941.

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Reg. No. 290,638. Registered Jan. 12, 1932. The Billings & Spencer Company, Hartford, Conn., a corporation of Connecticut. Republished by registrant.

Country Club

For Golf Clubs.
Claims use since Sept. 15, 1929.

Reg. No. 296,507. Registered Aug. 9, 1932. The Billings & Spencer Company, Hartford, Conn., a corporation of Connecticut. Republished by registrant.

Duo-Forged

The word "Forged" is disclaimed apart from the mark as shown.
For Golf Clubs.
Claims use since Jan. 1, 1931.

Reg. No. 391,150. Registered Oct. 28, 1941. The Tuco Work Shops, Incorporated, Lockport, N. Y., a corporation of New York. Republished by registrant.

TUCO

For Picture Puzzle Games.
Claims use since September 1932.

Reg. No. 393,479. Registered Feb. 17, 1942. The Tuco Work Shops, Incorporated, Lockport, N. Y., a corporation of New York. Republished by registrant.




The words "Lockport, New York" are disclaimed apart from the mark as shown.
For Picture Puzzle Games.
Claims use since Sept. 20, 1932.

## CLASS 23

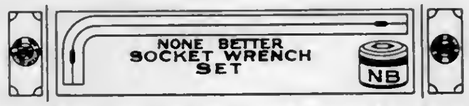
### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 88,616. Registered Oct. 8, 1912. Coes Wrench Company, Worcester, Mass. Republished by The Billings & Spencer Company, Hartford, Conn., a corporation of Connecticut.

Knife Handle

For Wrenches.
Claims use since February 1885.

Reg. No. 185,962. Registered July 1, 1924. The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut. Republished by registrant.




The words "New Britain," "None Better," and "Socket Wrench Set" and the representations of the parts of a wrench are disclaimed apart from the mark as shown.
For Socket-Wrench Sets.
Claims use since Sept. 1, 1923.

Reg. No. 186,808. Registered July 22, 1924. Sigmund Mandl, Milwaukee, Wis. Republished by The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut.

Husky

For Socket Wrenches and Socket-Wrench Sets.
Claims use since Jan. 29, 1924.

Reg. No. 200,815. Registered July 14, 1925. The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut. Republished by registrant.

NEW BRITAIN

AUTOMATIC

The word "Automatic" is disclaimed apart from the mark as shown.
For Automatic and Semi-Automatic Screw and Chucking Machines.
Claims use since Sept. 12, 1924.

Reg. No. 202,796. Registered Sept. 1, 1925. The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut. Republished by registrant.

NEW BRITAIN

NEW-MATIC

For Chucking and Screw Machines.
Claims use since Sept. 19, 1924.



Reg. No. 367,436. Registered May 16, 1939. Baker Oil Tools, Inc., Huntington Park, Calif., a corporation of California. Republished by registrant, present address Los Angeles, Calif.

PETAL

For Well Drilling Tools and Equipment—Viz, Basket Structures for Use in Forming a Barrier Between the Well Casing and Well Bore During Cementing Operations.
Claims use since about June 1, 1937.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Reg. No. 380,483. Registered Aug. 20, 1940. United Buyers Corporation, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Ladyette

For Brooms, Mops, Scrubbing Brushes, and Dusters.
Claims use since Jan. 15, 1935.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 302,351. Registered Apr. 11, 1933. Baltimore Belting Company, Baltimore, Md. Republished by Baltimore Belting Company, Baltimore, Md., a firm.




The words "Special" and "Waterproof" are disclaimed apart from the mark as shown.
For Leather Belting.
Claims use since the year 1906.

## CLASS 37

### PAPER AND STATIONERY

Reg. No. 237,351. Registered Jan. 10, 1928. Strathmore Paper Company, Mittineague, Mass., a corporation of Massachusetts. Republished by registrant, present address, West Springfield, Mass.

FAIRFIELD

For All Kinds of Writing and Printing Paper.
Claims use since January 1890.

Reg. No. 239,561. Registered Mar. 6, 1928. H. D. Rising Paper Company, Housatonic, Mass. Republished by Rising Paper Company, Housatonic, Mass., a corporation of Massachusetts.

FISCAL

For Index, Pasted, and Wedding Bristols, Bond, Ledger, and Wedding Papers.
Claims use since Sept. 27, 1904.

Reg. No. 248,580. Registered Oct. 23, 1928. Strathmore Paper Company, Mittineague, Mass., a corporation of Massachusetts. Republished by registrant, present address West Springfield, Mass.

Lugano

For All Kinds of Writing and Printing Paper.
Claims use since Jan. 1, 1895.

Reg. No. 285,681. Registered Aug. 4, 1931. Hurlbut Paper Company, South Lee, Mass., a corporation of Massachusetts. Republished by registrant.

Papers by Hurlbut

The word "Papers" is disclaimed apart from the mark as shown.
For Writing and Printing Paper.
Claims use since Apr. 1, 1930.

Reg. No. 297,916. Registered Oct. 4, 1932. Strathmore Paper Company, West Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Scotia

For Writing and Printing Paper.
Claims use since Jan. 1, 1895.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 76,889. Registered Feb. 22, 1910. Merrimack Manufacturing Company, Lowell, Mass. Republished by Merrrimack Manufacturing Company (1952), Lowell, Mass., a corporation of Massachusetts.

MERRIMACK

For Printed and Dyed Calicoes, Cloth Made From Carded and Combed Cotton Yarns, Printed and Dyed Flannels, Corduroys, Velveteens, and Fustians.
Claims use since 1822.

Reg. No. 269,073. Registered Mar. 25, 1930. Fred Butterfield & Co., Inc., New York, N. Y. Republished by Merrimack Manufacturing Company (1952), Lowell, Mass., a corporation of Massachusetts.

DURBAR

For Cotton, Linen, Silk, Rayon and/or Combinations Thereof in the Piece.
Claims use since Oct. 5, 1909.

## CLASS 43

### THREAD AND YARN

Reg. No. 337,651. Registered Aug. 18, 1936. American Enka Corporation, Enka, N. C., a corporation of Delaware. Republished by registrant.

DY-GLO

For Rayon Yarns.
Claims use since Apr. 9, 1936.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 306,340. Registered Sept. 19, 1933. Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Republished by Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware.

DUALITE

For Dental and Surgical Operating Lights.
Claims use since Jan. 31, 1933.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Reg. No. 225,972. Registered Mar. 29, 1927. The Kansas Flour Mills Corporation, Kansas City, Mo., doing business as The Pratt Mills, Pratt, Kans. Republished by Flour Mills of America, Inc., Kansas City, Mo., a corporation of Delaware.

FOREMOST

For Wheat Flour.
Claims use since November 1917.

Reg. No. 286,104. Registered Aug. 18, 1931. Virginia Dare Extract Company, Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.

EASY WHIP

For Preparation in Powder Form To Be Added to Other Ingredients in the Preparation of Icings, Toppings, and the Like.
Claims use since Nov. 4, 1930.

Reg. No. 327,989. Registered Sept. 10, 1935. A. Giurlani & Bro., San Francisco, Calif., a corporation of California. Republished by registrant.




The drawing is lined for red.
For Olive Oil.
Claims use since October 1905.

Reg. No. 344,949. Registered Apr. 13, 1937. United Buyers Corporation, doing business as Foodcraft Products, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

Foodcraft

For Canned Apricots, Pitted Red Cherries, Pork and Beans, Hominy, Wheat Flour, and Coffee.
Claims use since Sept. 16, 1935.

Reg. No. 348,136. Registered July 20, 1937. United Buyers Corporation, Chicago, Ill. Republished by UBC Distributors, Incorporated, Chicago, Ill., a corporation of Delaware.

LADYETTE

For Canned Salmon, Coffee, Food Flavoring Extracts, Milk Chocolate, Baking Chocolate, and Marshmallows.
Claims use since Jan. 15, 1935.

Reg. No. 377,096. Registered Apr. 16, 1940. A. Giurlani & Bro., San Francisco, Calif., a corporation of California. Republished by registrant.

El Padre



For Olive Oil.
Claims use since May 8, 1939.

### Erratum

The notice of republication under section 12(c) of the Trade-Mark Act of 1946, of Registration No. 415,516, issued Aug. 7, 1945, in Class 48, in the name of Horlacher Brewing Company, of Allentown, Pa., a corporation of Pa., appearing in the OFFICIAL GAZETTE of Apr. 13, 1948, page 337, was inadvertent and is vacated.

# REISSUES

## JULY 28, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

**23,689**
**NONSKID RUBBER TRACTION MEMBER**
**David E. Crooker, Ontonagon, Mich., assignor of one-half to Lloyd L. Felker, Marshfield, Wis.**
**Original No. 2,540,044, dated January 30, 1951, Serial No. 52,199, October 1, 1948. Application for reissue November 26, 1952, Serial No. 322,840**
**7 Claims. (Cl. 152—211)**

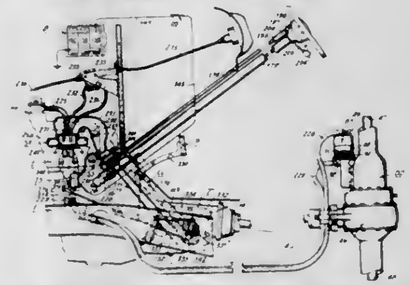


1. In a traction member having a rubber tread portion with a plurality of recesses formed in the surface thereof, at least two-spaced metal coils extending longitudinally within said tread portion in a transversely waved conformation between said recesses, adjacent coils being positioned with a plurality of said recesses therebetween, and one side portion of each of said coils being substantially flush with the tread surface.

**23,690**
**PROCESS FOR OBTAINING DRY CHLORINE GAS FROM A GASEOUS MIXTURE COMPRISING ELEMENTAL CHLORINE AS A PRINCIPAL COMPONENT THEREOF**
**Clayton L. Dunning, Fairport Harbor, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware**
**No Drawing. Original No. 2,553,557, dated May 22, 1951, Serial No. 109,071, August 6, 1949. Application for reissue November 24, 1951, Serial No. 258,096**
**7 Claims. (Cl. 23—219)**

1. The method of drying chlorine contained in a gaseous mixture comprising chlorine as the principal component, which includes the steps of introducing a small proportion, relative to the amount of water therein, of hydrogen chloride into said mixture, cooling the thus augmented gas mixture to a temperature between about +9° and about −34° C. and below the dew point of the water vapor-hydrogen chloride mixture, and separating the gas phase from the condensate formed during the aforesaid cooling step.

**23,691**
**AUTOMOTIVE TRANSMISSION CONTROL**
**Glenn T. Randol, Mountain Lake Park, Md.**
**Original No. 2,617,310, dated November 11, 1952, Serial No. 764,342, July 29, 1947. Application for reissue May 18, 1953, Serial No. 355,896**
**47 Claims. (Cl. 74—334)**



1. In a control for shiftable change-speed transmissions having a plurality of different speed drives, a shift control member having [rotational] *axial* movement connection in a first direction for speed drive selection and in a second [axial] *rotational* direction at an angle to the first direction to an operating position for effecting a chosen speed drive without disrupting the rotational connection, control mechanism to effect another speed drive having a movable element, means on the shift control member operatively engageable with the movable element only when the control member is [moved in its second direction to the] *disposed in said* operating position, said control member being supplementally movable parallel to its first direction from said operating position, with said engageable means in engagement with the element, whereby said control mechanism may effect said other speed drive.

# PLANT PATENTS

## GRANTED JULY 28, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

**1,206**
**FUCHSIA PLANT**
**Horace M. Tiret, San Francisco, Calif.**
**Application October 25, 1949, Serial No. 123,497**
**1 Claim. (Cl. 47—60)**

The new and distinct variety of double fuchsia plant substantially as described and illustrated characterized by its large double flower which is distinctive in form and whose petals are unusually bi-colored and having a solid closely-knit conformation.



**1,207**
**POINSETTIA PLANT**
**Paul Ecke, Encinitas, Calif.**
**Application May 13, 1952, Serial No. 287,454**
**1 Claim. (Cl. 47—60)**

A new and distinct variety of poinsettia plant substantially as illustrated and described, characterized by an apparent absence of flowers and by a first group of bracts comprising a profusion of relatively large bracts radiating on relatively long petioles from the peduncle, the individual

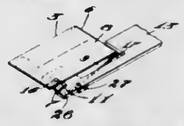
large bracts being ovate-accuminate and comparatively wide throughout the major portion of their axial length whereby next adjacent bracts overlaps at edge portions providing an involucre wreath open at its central portion, and further characterized by a second group of relatively smaller bracts which grow from the peduncle on relatively long upstanding petioles at said open center of the involucre of the larger bracts, the smaller bracts being irregular in shape and size and generally having more than one bract to each petiole, said bracts of both groups being of a blood red color.

# PATENTS

GRANTED JULY 28, 1953

## GENERAL AND MECHANICAL

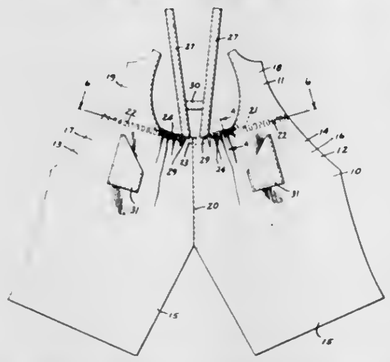
**2,646,567**
**METHOD OF APPLYING GARMENT TAGS**
**Donald D. Sloan, Newton, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts**
**Application October 6, 1949, Serial No. 119,809**
**3 Claims. (Cl. 1—66)**



1. The method of applying an elongate tag to an article which comprises folding the tag transversely over the edge of the article with integral front and back portions of the tag extending along opposite sides of the article, folding one end of the back inwardly to form a flap which extends between the article and the back, engaging the folded tag on a staple clinching device, inserting a staple through said front, thence through the article and thence through said flap, and bending the ends of the staple between the flap and back so that they are covered by the back whereby the folded tag may be applied with one stapling operation.

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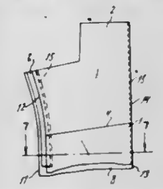
**2,646,568**
**OVERALL GARMENT**
**Harry Lang, St. Paul, Minn.**
**Application September 24, 1949, Serial No. 117,671**
**1 Claim. (Cl. 2—80)**



A protective garment comprising a trousers member and a bib member integral therewith consisting of two single longitudinal pieces of material, said trousers member being constituted as a body member provided by intermediate parts and leg portions provided by lower parts of said longitudinal pieces and said bib member being constituted as a pair of bib portions integral with front portions of upper extremities of said intermediate parts, each of said longitudinal pieces including a first longitudinal side edge having an upper concave portion, a central arcuate portion and a lower arcuate portion and a second longitudinal side edge having an upper arcately cut portion extending substantially to the waist line of the corresponding panel, a central longitudinal portion which diverges generally with respect to the central arcuate portion of said first longitudinal side edge and a lower longitudinal portion which converges generally with respect to the lower arcuate portion of the first longitudinal side edge, said central portions of said second longitudinal side edges being secured together to form a vertical seam at the center of the rear of the garment uniting adjacent marginal edges of the intermediate parts providing the body portion of said trousers, intersections of the central and lower portions of said first and second longitudinal side edges forming the crotch point of the garment, lower central portions of said first longitudinal side edges being secured together to form a vertical seam at the center of the front of said garment, lower portions of the first longitudinal side edges being secured to lower portions of the second longitudinal side edges to provide inside leg seams, portions of the first longitudinal side edges between said upper concave portions and the upper central portions of said first longitudinal side edges being detachably connected to form a front closure extending downwardly from the top of said garment, and shoulder straps connected between upper extremities of said bib portions at the front of the garment and a part of said garment at the center of the rear thereof at the elevation of said upper extremities of the intermediate parts of said longitudinal pieces of material.

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**2,646,569**
**APPAREL GARMENT AND METHOD FOR MAKING THE SAME**
**Milton G. Rosenfeld, Ladue, Mo., assignor to Western Garment Company, St. Louis, Mo., a corporation of Missouri**
**Application June 29, 1951, Serial No. 234,396**
**6 Claims. (Cl. 2—93)**



1. A ladies' suit jacket comprising front panels, facing panels marginally secured to the front panels, said facing panels being formed of the same material as the front panels, and an intermediate lining section interposed between the front panels and facing panels, said lining section consisting of a lower portion and an upper portion, the upper portion being formed of stiff, coarse material and the lower portion being formed of the same material as the front and facing panels.

**2,646,570**
**SHIRT**
**Ernestine Rinehart and Alan Rinehart, New York, N. Y.**
**Application February 24, 1951, Serial No. 212,612**
**3 Claims. (Cl. 2—116)**



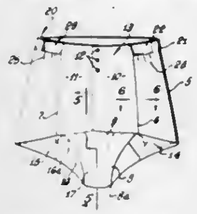
1. A shirt including a body enclosing portion provided with overlying front margins and an upper annular edge enclosing the neck section of the wearer, and a collar formed with inner and outer longitudinal edges, the latter edge overlying the upper section of the shirt, and the former edge being secured by a line of stitching to said upper annular edge, the collar being formed at opposite ends with projections extending below the line of attachment and which are disposed to the rear of said margins, a bar extending at its outer end toward the front of the shirt, such outer end having an opening and being secured at its inner end to one of said projections, the shirt front adjacent the projection having an opening through which the bar extends, and a button secured to the other projection for attachment by the free end of the bar.

**2,646,571**
**PLEATED SKIRT**
**Mildred B. Terry, New York, N. Y., assignor to Clikpleet, Inc., New York, N. Y., a corporation of New York**
**Application April 18, 1950, Serial No. 156,596**
**2 Claims. (Cl. 2—211)**



1. A skirt comprising a planar rectangular section of material, fastening means along two opposite edges thereof to provide a vertical joint corresponding substantially to the length of the skirt to close it around the wearer, fastening means formed of first and second complementary parts along a third edge thereof on both faces of the material, said means being spaced with cooperating members staggered so that alternately oriented creases are defined to form alternate vertical folded areas of unequal width when said first and second complementary parts are brought together to hold the edge in pleated relation, first like parts of said fastening members being attached to the mid-portion of wider folded areas on opposite surfaces and second cooperating parts of the fastening members being attached close to the folded edge of the narrower folded areas on opposite surfaces, so that by bringing the first and second complementary parts of the fastening members together, the wider folded areas will over-lie the narrower to provide full pleating in the skirt.

**2,646,572**
**REINFORCED SHORTS**
**Fluta H. Eudy, Fairfield, Calif.**
**Application September 7, 1948, Serial No. 48,032**
**2 Claims. (Cl. 2—225)**



2. A pair of shorts comprising, a body member adapted to extend downwardly from the wearer's waist and about the hips with its ends spaced apart and overlying the front portions of the thighs, said body member having a crotch-forming extension between said ends adapted to extend between the legs and upwardly to an end edge located below the waist, a reinforcement overlying a portion of said body and said extension and secured to said body and said extension, said extension being of reduced width between its ends, said reinforcement being of reduced width between its ends to correspond to the reduced width portion of the extension; the lower edge portions of the body which extend from opposite sides of said extension, as well as the side edges of said extension and side edges of aid reinforcement, extending convergently toward said reduced portions of said extension and said reinforcement, and means forming a garment front joined to said end edge of the extension and to said ends of said body member.

**2,646,573**
**SHOULDER PAD AND THE METHOD OF CONSTRUCTION THEREOF**
**David Morgenstern, New York, N. Y., assignor to Walter M. Berliner, New York, N. Y.**
**Application February 27, 1948, Serial No. 11,436**
**2 Claims. (Cl. 2—268)**



1. In shoulder pad construction, a pad of resilient material consisting of textile fibers loosely and elastically retained in association by an interconnected coating of a rubbery material, the pad being shaped to provide a mound-like form, the pad having a pair of opposed faces, the pad being in flexure to define one face as a convex surface and the opposed face as a concave surface, and a coating of adhesive applied in the fluid state to the entire surface of one of the faces while the pad is in the state of flexure to interact with the coating of rubbery material, the adhesive coating interacted with the rubbery material providing means after it has set while the pad is held continuously in the state of flexure to retain every point in that surface to which it is applied against movement out of said state of flexure so that the interacted adhesive coating and the rubbery material on release of the pad from the flexing force anchor the pad against movement out of the stressed condition of flexure and thereby substantially fix the concave surface to conform closely to the contour of a shoulder, the interacted adhesive coating and the rubbery material applying resistance throughout the entire surface to which the adhesive coating is applied to movement of the pad out of its flexed form.

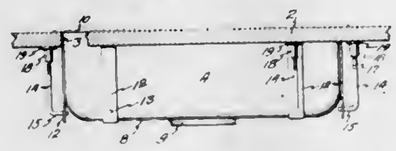


**2,646,574**
**ODORLESS URINAL**
**Elwyn R. Gillespie, San Pablo, Calif.**
**Application October 2, 1950, Serial No. 187,862**
**1 Claim. (Cl. 4—103)**



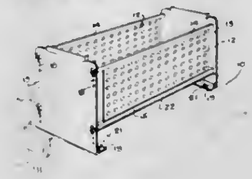
A urinal comprising a receptacle including a vertical wall plate, a vertical conduit adjacent the wall plate, vents connecting the upper and lower portions of said conduit to the wall plate interiorly and exteriorly, respectively, of the receptacle, a drain connecting the receptacle to the conduit at a point immediately above the lower vent, a discharge lip protruding into the conduit from the lower end of said drain above said lower vent, a screened discharge trap detachably connected to the conduit immediately below said lower vent, and a suction fan in said upper portion of the conduit.

**2,646,575**
**SINK AND DRAINBOARD ASSEMBLY**
**Andrew H. Galley, York Mills, Toronto, Ontario, Canada, assignor, by mesne assignments, to Luxene, Inc., New York, N. Y., a corporation of Delaware**
**Application May 18, 1949, Serial No. 93,865**
**In Canada March 18, 1949**
**4 Claims. (Cl. 4—187)**



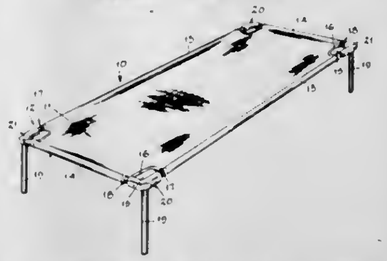
1. An sink bowl unit formed of a corrosion-resistant alloy and provided with an integral marginal outwardly projecting flange of about $^{31}/_{1000}$'' thickness at its upper edge adapted to overlie the marginal edge portion defining a sink deck opening and provided with metal straps secured to the bowl in position to pass through the opening and having portions projecting from the under side thereof and adjustable securing means engaging the projecting portions and an under surface of the sink deck adapted in cooperation with the flange rigidly to secure the bowl in position, said securing means comprising bolts having threaded upper end portions and inturned lower end portions having notched under sides and adjusting nuts threaded to the bolt upper ends.

**2,646,576**
**COLLAPSIBLE CRIB CONSTRUCTION**
**Herman Abrams, Philadelphia, Pa.**
**Application May 9, 1951, Serial No. 225,325**
**6 Claims. (Cl. 5—95)**



1. A collapsible crib unit adapted to be assembled upon and secured directly to a bed mattress comprising a plurality of separable panels securable together in assembled relation to provide a crib enclosure having parallel side walls extending transversely across the width of the mattress and parallel end walls engaging the opposite longitudinally extending side edges of the mattress, said side wall panels being adapted to rest upon the upper surface of the mattress while said end wall panels project downwardly to the plane of the bottom surface of said mattress, said end wall panels being provided at their lower ends with inwardly turned flanges adapted to underlie the mattress and to directly engage the underside thereof for clamping the mattress between said flanges and the lower edges of said side wall panels.

**2,646,577**
**COLLAPSIBLE COT**
**Arthur G. Thayer, Rossford, Ohio**
**Application November 4, 1949, Serial No. 125,421**
**7 Claims. (Cl. 5—114)**



1. A collapsible cot embodying a substantially rectangular frame and a taut weight sustaining covering carried thereby, said frame comprising side and end rails, bracket members at the corners of the frame supporting the adjacent ends of the rails, supporting legs secured to the bracket members, means for pivotally connecting the opposite ends of the side rails to the respective bracket members to enable swinging movement of the rails and bracket members relative to one another when it is desired to fold the frame, means for locking the side rails and bracket members against such relative swinging move-

ment when the frame is in erected position, means for pivotally connecting one end of each end rail to a bracket member for swinging movement relative thereto upon folding of the frame, and means carried by the opposed bracket member for loosely supporting the opposite end of the end rail when the frame is erected.

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**2,646,578**
**BED CLOTHING SUPPORT**
**Charles S. Evans, Atherton, Calif.**
**Application September 25, 1948, Serial No. 51,195**
**6 Claims. (Cl. 5—319)**



5. A foot rest and bed clothing support comprising a hollow body of sheet material and having a scalene triangular cross section, a base plate to one edge of which the hollow body is hinged along an edge of the narrowest side, and means in the hollow body for mounting a heating element.

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**2,646,579**
**BEDDING SUPPORTING APRON**
**Harry I. Bows, Los Angeles, Calif.**
**Application May 6, 1950, Serial No. 160,536**
**6 Claims. (Cl. 5—345)**

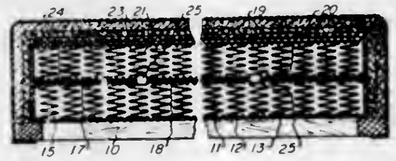


1. The combination of a box spring, mattress and an apron of flexible material supported on the sides of the mattress and presenting a closed pocket, closed adjacent its lower edge, and having an upper opening extending along the side of the mattress adaptable to receive the adjacent edge portion of bedding hanging downward within the pocket, said pocket being adapted to support and confine the edge portion of the bedding; and means for maintaining tension in the upper portion of the apron.

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**2,646,580**
**COMBINATION MATTRESS AND SPRING**
**Theodore W. Marsico, Denison, Tex.**
**Application January 27, 1949, Serial No. 73,043**
**4 Claims. (Cl. 5—351)**

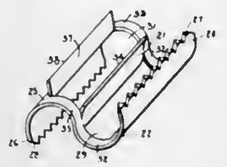
4. In a combination spring and mattress, a supporting frame, a lower spring unit carried on the frame, an upper spring unit carried on the lower spring, said units each including a plurality of coiled springs and an upper and lower border wire extending around the outer perimeter of the spring units, means securing the lower portion of each border spring of the lower unit to said lower border wire of said lower unit, means securing the upper portion of each border spring of the lower unit to said upper border wire of said lower unit, means securing the lower portion of each border spring of the upper unit to said lower



border wire of said upper unit, means securing the upper portion of each border spring of the upper unit to said upper border wire of said upper unit, clips securing together the lower border wire of the upper unit and the upper border wire of the lower unit, padding over the springs, and ticking secured to the frame and extending over the padding.

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**2,646,581**
**CLEANING IMPLEMENT**
**Milton A. Nelson, Rockford, Ill.**
**Application July 14, 1949, Serial No. 104,717**
**12 Claims. (Cl. 7—14.1)**

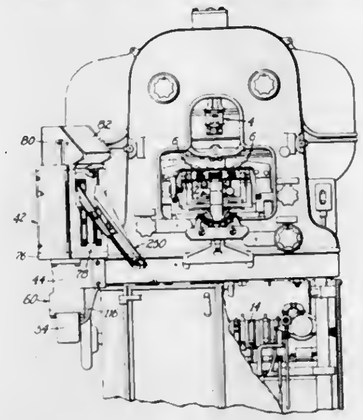


1. An implement having a body comprising a central portion and end portions curved outwardly from opposite sides of the central portion in opposite directions, said end portions each having an opening adjacent the central portion and each terminating in an elongated blade spaced from the central portion and extending transversely of the outward extent of the receptive end portions, said central portion together with one of the blade end portions defining a handle to fit the contour of a user's hand for holding the implement in a position to use the other blade as the working face.

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**2,646,582**
**MACHINE FOR OPERATING ON SHOES**
**Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application June 23, 1949, Serial No. 100,812**
**16 Claims. (Cl. 12—1)**

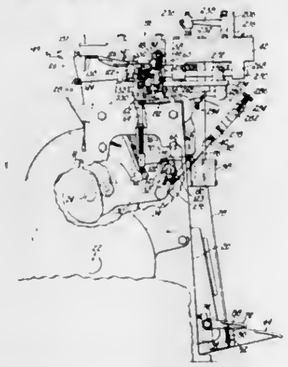
3. In a machine for operating on shoes, fluid-operated means for lasting the toe-end portion of a shoe in a cycle of automatic operations of the machine, a chamber for holding fluid under pressure for the operation of said fluid-operated means, means for terminating the operating pressure of the fluid in said chamber at the end of each cycle, means constructed and arranged to receive the shoe after the toe-lasting operation and to clamp and hold the shoe independently of a cycle of operations of the machine, a trimming knife for trimming off the surplus margin of the toe end of the upper while the shoe is so held, fluid-operated means for operating said knife thus to trim the upper, an automatically controlled valve for admitting operating fluid from said chamber to said last-named fluid-operated means as an incident to the next cycle of operations of the machine, an accumulator for receiving fluid under pressure from said chamber



and for holding the fluid thus under pressure when the pressure is terminated in said chamber, and another valve controlled by the operator for admitting operating fluid from said accumulator to said last-named fluid-operated means independently of any cycle of operations of the machine.

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**2,646,583**
**MACHINE FOR SHAPING STITCHDOWN UPPERS OVER LASTS**
**Ernest L. Butler, Lynn, and Otis M. Holmes, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application May 25, 1949, Serial No. 95,226**
**28 Claims. (Cl. 12—7.5)**



6. In a machine for shaping stitchdown uppers over lasts, work supporting means constructed and arranged to engage the entire bottom surface of a sole, grippers constructed and arranged to engage outwardly flanged upper materials at opposite sides of the forepart of an upper, wipers constructed and arranged to engage the entire extent of the outwardly flanged margins of the upper materials, an actuator, and connections from said actuator for operating the grippers and for actuating the sole supporting means to cause the sole and the outwardly flanged margins of the upper materials to be pressed between said wipers and said sole supporting means.

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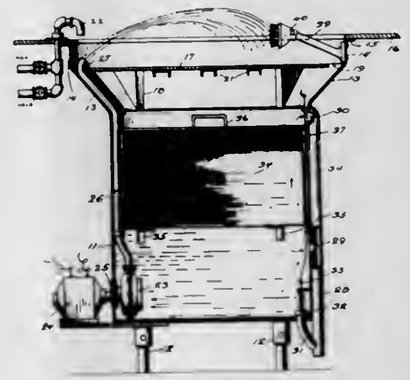
**2,646,584**
**METHOD OF PREPARING VAMPS FOR SHOES OF THE CALIFORNIA OR FORCE-LASTED TYPE**
**William F. Herlihy, Haverhill, Mass., assignor to Lowell Counter Company, Lowell, Mass., a copartnership**
**Application April 8, 1950, Serial No. 154,776**
**3 Claims. (Cl. 12—142)**



1. A method of preparing vamps for shoes of the California or force-lasted type which comprises providing a vamp, providing a moldable toe box blank, forming a pocket in the toe portion of the vamp for the reception of the toe box blank by shrinking the extreme lower edge of the toe end of the vamp while leaving unshrunken the adjacent marginal material of the toe end of the vamp, placing the toe box blank in said pocket, adhesively bonding the toe box blank and vamp while concomitantly molding the toe box blank and the toe portion of the vamp by appropriately shaped dies substantially to the shape of the toe portion of the shoe which is to be made, and securing a wrapper strip and a sole element to the vamp after the latter has been molded.

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**2,646,585**
**WASHING APPARATUS**
**Paul E. Whittington, Arlington, Va., assignor to the United States of America as represented by the Secretary of the Army**
**Application July 20, 1950, Serial No. 174,984**
**14 Claims. (Cl. 15—74)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

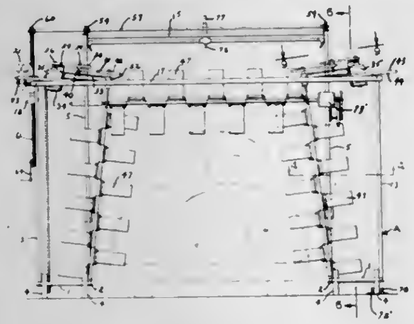


12. In a device of the character described, a casing, a foraminous basket removably supported in said casing and spaced from the upper and lower ends thereof, an imperforate horizontal platform removably supported in said casing and

spaced above said basket, said platform having a substantially plane upper work surface, the edges of said platform being spaced from the adjacent walls of the casing to provide a substantially continuous relatively narrow gap about the edge of the platform, and means to play a stream of liquid upon the imperforate platform whereby said liquid will flow over the edges of said platform and through the gap to the basket, a bracket secured to the upper portion of the casing and extending in spaced relation above the platform, and a dish cleaning implement secured to said bracket and disposed in proximity to the stream of liquid played upon the platform.

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**2,646,586**
**SELF-PROPELLED AUTOMOBILE WASHING MACHINE**
**David A. Foutes, Hannibal, Mo.**
**Application August 3, 1951, Serial No. 240,083**
**3 Claims. (Cl. 15—97)**

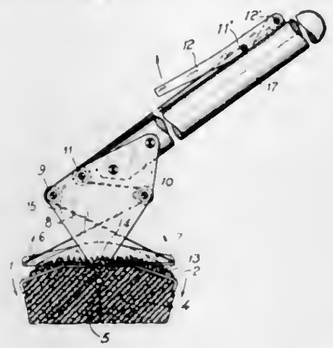


1. A car washing machine comprising a frame having a generally tunnel-shaped configuration adapted to fit over and around an automobile, wheels operatively mounted on the frame, a prime mover operatively mounted in and carried by the frame, said prime mover being operatively connected to at least some of said wheels for moving the frame slowly along the automobile, a plurality of approximately vertical shafts mounted for swingable movement toward and away from the automobile, said shafts being provided with radially projecting hooks, and a loop of absorbent wiping material removably mounted on each hook.

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**2,646,587**
**SPONGE TYPE MOP WITH TWO-PART HINGED BACKING PLATE**
**Eric Åke Sjöblom, Koping, Sweden, assignor to Erik Gustaf Backman, Koping, Sweden**
**Application January 23, 1950, Serial No. 140,108**
**In Sweden January 25, 1949**
**3 Claims. (Cl. 15—119)**

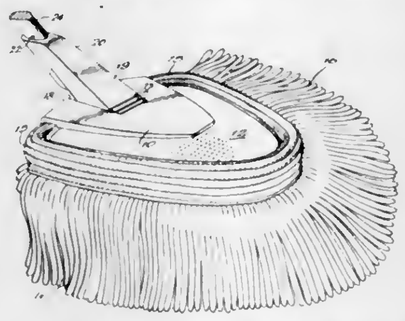
1. A floor mop comprising a pair of hinged flaps movable to either an opened or closed position, a compressible sponge connected to the underside of said flaps, spring means connected to said flaps and extending transversely thereof for normally maintaining the flaps and sponge in their opened mopping position, each of said flaps having a compression lever extending upwardly and outwardly therefrom to overlap and abut the opposite flap when the flaps are in their opened position, an operating handle pivotally connected to said flaps, and means operatively connecting the levers to said operating handle for moving the levers toward each other



and the flaps and sponge to their closed position to compress the sponge.

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**2,646,588**
**RESILIENT MOPHEAD STRUCTURE AND HANDLE MOUNTING**
**Franz Wagner, Chicago, Ill., assignor to O-Cedar Corp'n, Chicago, Ill., a corporation of Illinois**
**Application January 21, 1948, Serial No. 3,495**
**10 Claims. (Cl. 15—147)**



1. In a mop structure, a central resilient flexible body to serve as a shock absorber, prongs fixed in said body and extending laterally and forwardly thereof, a fabric body supported upon said prongs, said resilient body having a central recess extending rearwardly and an integral neck portion in the recess and extending in the plane of said body and equipped with an integral socket providing with said body a non-scratch buffer, and a handle received within said socket, said neck arcuately flexing when said handle is raised or lowered.

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**2,646,589**
**LUBRICATING MEANS FOR PNEUMATIC DOOR CHECKS, CLOSERS, AND THE LIKE**
**Bert A. Quinn, St. Paul, Minn.**
**Application December 29, 1951, Serial No. 264,050**
**6 Claims. (Cl. 16—66)**

1. In a pneumatic door check, an elongated cylinder having closed front and rear ends, the closed rear end of the cylinder having an axial plunger-rod aperture, a plunger-rod working slidably through said aperture, a plunger fast on the inner end portion of the plunger-rod, a coil



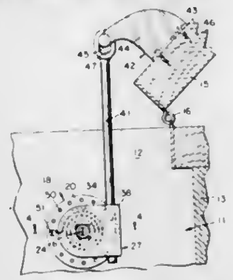
compression spring mounted in the cylinder over the plunger-rod and compressed between the plunger and the rear end portion of the cylinder, the exterior of the spring slidably bearing against the interior of the cylinder, the internal diameter of the spring being materially greater than the exterior diameter of the plunger-rod, and an



oil-soaked annular wick mounted over the plunger-rod and within the spring, a plurality of convolutions of said spring having wiping engagement with the exterior surface of the annular wick when the same is compressed and extended, the spring delivering oil to the inner surface of the cylinder by capillary action and distributing the oil thus delivered.

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**2,646,590**
**DOOR CONTROLLER**
**Robert H. Milton, La Jolla, Calif.**
**Application April 3, 1950, Serial No. 153,651**
**9 Claims. (Cl. 16—80)**

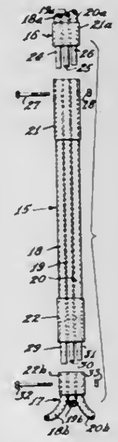


1. A door control device, comprising a base member adapted to be fixedly secured to a stationary support adjacent a pivotal axis of a door to be controlled, a rotatable member carried by said base member for pivotal movement about an axis parallel to the pivotal axis of the door, a spring interposed between said base and rotatable member for yieldably urging said rotatable member pivotally in a given direction, and a connecting rod freely slidably mounted in said rotatable member for movement in a plane at right angles to the pivotal axis of said rotatable member, said rod being adapted for pivotal connection to the door to be controlled.

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**2,646,591**
**THREE-PIECE TUBULAR LAWN MOWER HANDLE AND METHOD OF MANUFACTURING SAME**
**Herman C. Knarzer, Richmond, Ind., assignor to Dille & McGuire Mfg. Co., Richmond, Ind., a corporation of Indiana**
**Application February 8, 1951, Serial No. 209,950**
**14 Claims. (Cl. 16—111)**

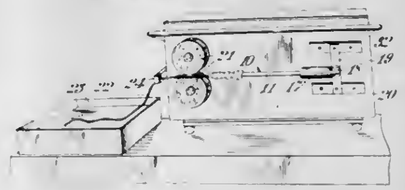
1. A lawn mower handle comprising three sections, namely, a fork section, a central shank section, and a cross bar handle section, each of said sections comprising three tubes; a sleeve for each of said sections, each of said sleeves being fixed to the tubes of that section; and two groups of rods, one end of each of the rods of one group being fixed within one of the tubes of one of said three sections and adjacent one of the other of said three sections, and one end of each of the rods of the other group being fixed within one of the tubes of one of said three sections and adjacent one of the other of said three sections, the other end of each of the rods of each group protruding from the tube in which such rod is fixed and being adapted to fit within a tube of a said adjacent section, said sections being assembled with the said other ends of the rods of each group inserted within the tubes of that section adjacent the



one to which the respective rods are fixed; each of said rods having holes bored therein near the said other ends thereof, the said adjacent sections having holes provided through the tubes thereof so as to align with said first mentioned holes when the said other ends of the rods are inserted in the tubes of said adjacent sections, and bolts to pass through said holes when aligned, whereby to fasten said sections together, said shank section being located between said fork section and said cross bar section.

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**2,646,592**
**MEANS FOR FEEDING COLLAPSIBLE TUBULAR MEMBERS ONTO CORES**
**Walter David Kennedy, London, England**
**Application March 19, 1949, Serial No. 82,452**
**In Great Britain February 7, 1949**
**4 Claims. (Cl. 17—42)**

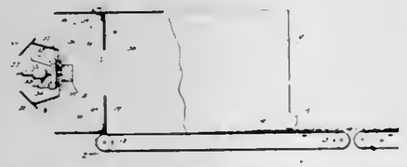


1. Apparatus for preparing a collapsible tubular member for transfer to a cylindrical receiver comprising a frame, a cylindrical core supported towards one end from the frame, said core comprising a pair of relatively long, thin elements lying side by side, spaced apart transversely of their length, substantially parallel and projecting from the other end of the core to its support, a pair of rollers, supporting means on the frame carrying the rollers and driving means connected to said rollers rotating said rollers in opposite directions, said rollers being sup-

ported from the frame so as to grip the tubular member between the pair of rollers and feed it over the elements of the cylindrical core on to said core, said rollers engaging the tubular member between the elements to feed it over them.

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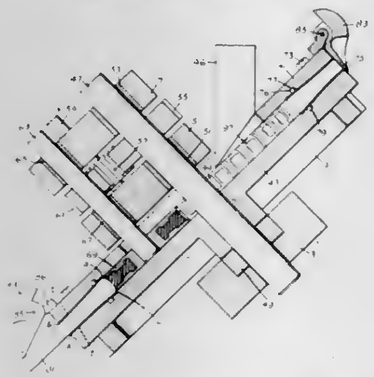
**2,646,593**
**METHOD AND APPARATUS FOR FIBERIZING MOLTEN MATERIAL**
**Richard M. Downey, North Judson, Ind., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois**
**Application November 4, 1950, Serial No. 194,180**
**In Canada May 1, 1950**
**20 Claims. (Cl. 18—2.5)**



1. Apparatus for fiberizing molten material comprising a hollow cylindrical slag-distributor open at one end and closed at the other and rapidly rotatable about a horizontal axis, means for delivering molten material to the interior surface of said distributor from its open end, and means for directing an annular blast of a gas coaxially with said axis and in a direction from the open toward the closed end of said distributor against molten material discharged from the edge of said distributor under the centrifugal force developed by its rotation.

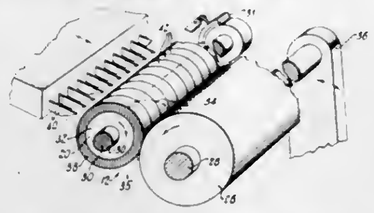
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**2,646,594**
**EXTRUSION APPARATUS AND METHOD**
**Crosby Field, Brooklyn, N. Y., assignor to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware**
**Application December 31, 1948, Serial No. 68,712**
**19 Claims. (Cl. 18—12)**



4. An extruder subassembly for a machine for extruding a quantity of particles of a product to form solid, homogeneous rod-like pieces, said subassembly including: a rotor plate, a coaxial ring plate spaced from said rotor plate, and a plurality of replaceable wedges disposed radially between peripheral portions of said plates; each pair of adjacent wedges together with overlying and underlying plate portions defining a nozzle-like converging extrusion channel therebetween.

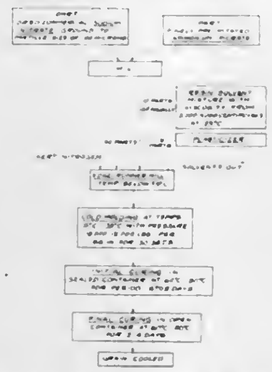
**2,646,595**
**METHOD FOR MOLDING O-RING GASKETS**
**George P. Leistensnider, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York**
**Application January 28, 1949, Serial No. 73,317**
**3 Claims. (Cl. 18—55)**



1. The method of forming an elastic O-ring which comprises, shaping a measured weight of a plastic mixture of vulcanizable rubbery binder and finely divided filler materials by calendering and circumferentially lapping and pressing the mixture about and upon a support to form a jointless annular preform on the support having a grain which is continuously parallel to the walls and uniform throughout, initiating pressure molding of said preform while it is still on said support, and continuously supporting said preform while molding it to final O-ring dimensions and while heat curing the thus molded O-ring.

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**2,646,596**
**PROCESS FOR PREPARING COMPOSITE PROPELLANTS**
**Charles A. Thomas and John R. Eck, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of War**
**Application August 23, 1944, Serial No. 550,908**
**2 Claims. (Cl. 18—55)**

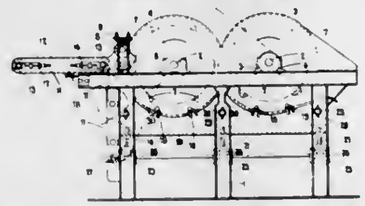


1. The process for producing a propellant for jet actuated devices which comprises the following steps: (*a*) intimately mixing finely divided sodium nitrate and ammonium picrate in about equal parts by weight; (*b*) intimately mixing with the mixture resulting from step (*a*) partially condensed N-butyl urea-formaldehyde resin in solution in a solvent that may be vaporized during the mixing of this step; (*c*) evaporating solvent during the mixing of step (*b*) until the mixture assumes the condition of a substantially dry, dusty powder having a total volatile content of about 1 to 1.4 per cent; (*d*) cold molding, under pressure, the powder resulting from step (*c*); (*e*) confining the molded product resulting from step (*d*) in a closed container and heating to a temperature below 80° C. to further condense the resin to a point where the molded product is sufficiently strong so that further condensation of the resin can be carried out upon the unconfined molded product; (*f*) and thereafter additionally heating the product resulting from step (*e*) while unconfined to a temperature below 80° C. to further condense the said resin; the said resin being used in sufficient amount to provide about 5 to 10 per cent by weight of the resin in the finished product.



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**2,646,597**
**MACHINE FOR BLENDING WOOL**
**Jack Dunbar Townsend, Lowry Bay, New Zealand**
**Application February 4, 1948, Serial No. 6,312**
**In New Zealand January 24, 1947**
**9 Claims. (Cl. 19—96)**



1. A wool blending machine including a main frame, at least one drum rotatably mounted on the frame, rows of teeth carried by the drum, another frame mounted for vertical movement in the main frame and positioned beneath the drum, spaced rows of stationary teeth supported on the last mentioned frame and adjustable therewith for coacting with the teeth on the drum, grids on opposite sides of the rows of teeth on the last mentioned frame, and means for adjusting said last mentioned frame including a plurality of screws and means gearing the screws together for simultaneous operation.

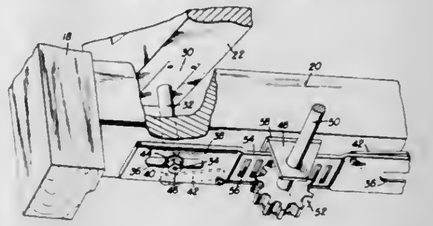
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**2,646,598**
**FUR BLOWING AND MIXING**
**John E. Kane, Danbury, Conn., assignor to The Frank H. Lee Company, Danbury, Conn.**
**Application March 29, 1949, Serial No. 84,130**
**11 Claims. (Cl. 19—146)**



1. In hat making apparatus for handling and mixing fur preparatory to the separation of the fur into quantities to form hat bodies, the combination of, a bin of substantially uniform horizontal section having vertical walls extending completely therearound with the wall at one side removable, first mixing means to deposit different types of fur in strata in said bin thereby to form a stratified body of fur, feeding mechanism to remove fur from said one side of the stratified body substantially in a zone extending transversely of the strata whereby fur is withdrawn from each stratum, second mixing means to mix the fur withdrawn from the body of fur whereby fur of substantially uniform consistency is produced, and means to deposit the mixed fur for subsequent use.

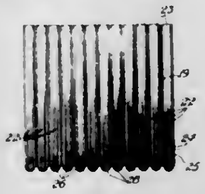
**2,646,599**
**WINDOW STRUCTURE**
**Jacob E. Klee, Webster Springs, W. Va.**
**Application April 7, 1950, Serial No. 154,596**
**2 Claims. (Cl. 20—53)**



1. A window structure comprising a casing having an opening therein, pairs of vertically rotating window frames mounted on said casing for closing the opening, said frames each having a vertical trunnion extending through the casing, an actuating member concealed beneath the casing and having a group of longitudinally spaced slots therein slidably receiving the trunnions, means for supporting said member on said trunnions, means connecting the member to the trunnions to impart rotation to the trunnions and hence the frame during sliding of the member, and means mounted on the casing for sliding the member, said connecting means including an arm fixedly mounted on and projecting laterally from the trunnion of each frame and pitmans, each of which is terminally pivoted to said member and each of said arms.

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**2,646,600**
**AWNING**
**Arthur F. Peterson, North Arlington, N. J.**
**Application May 4, 1950, Serial No. 159,928**
**3 Claims. (Cl. 20—57.5)**



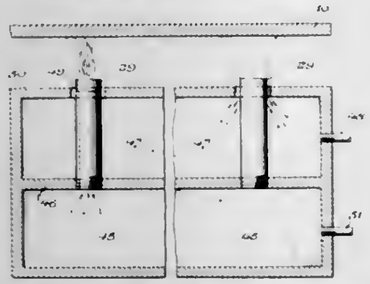
1. An awning comprising tubular end brackets disposed in parallel relationship and having inclined sides, a plurality of spacers connecting the inclined sides together, a plurality of strips attached to the top of the spacers in parallel spaced relationship, an opening at the lower end of the strips, a plate attached under the spacers, said plate having an upturned lower edge defining a gutter, said gutter being disposed under the openings in the strips, receiving openings in the tubular end brackets adjacent to the ends of the gutter, and discharge openings in the end brackets.

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**2,646,601**
**HEATING AND COOLING BACKING PAN**
**Albert H. Jung, Flushing, N. Y., assignor to United American Metals Corporation, Brooklyn, N. Y., a corporation of New York**
**Application September 14, 1949, Serial No. 115,759**
**1 Claim. (Cl. 22—58)**

An apparatus for backing electro-type shells comprising, a backing pan, a source of heating

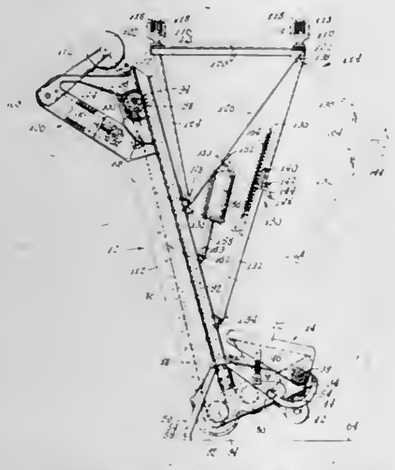
fluid, heat generating means connected to the said heating fluid source, consisting of a general gas chamber and a plurality of gas burners carried by the upper wall of the gas chamber and communicating with the interior of said gas chambers, said burners extending upwardly from the upper wall and disposed so as to apply the heat coming therefrom to specific areas of the backing pan, a source of cooling fluid, cooling means connected to said cooling fluid source comprising, an air chamber overlying



the gas chamber, said air chamber having an upper plate provided with a plurality of openings therein, each of said openings being of sufficient size and disposition to allow the burners to extend therethrough with a suitable clearance between the wall of the opening and the said burner to allow the cooling fluid to be directed at the specific areas of the backing pans toward which the burners are disposed, and controls associated with the source of heating and cooling fluid to regulate their passage into the apparatus.

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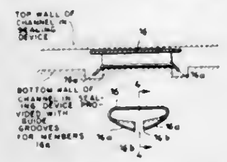
**2,646,602**
**MOLDER'S SAND TREATING AND CONVEYING APPARATUS**
**Peter S. Hardy, Bridgeport, Conn.**
**Application May 20, 1950, Serial No. 163,119**
**9 Claims. (Cl. 22—89)**



1. In a foundry, overhead tracks, a conveyor supported on and depending from said tracks and movable to different locations for lifting sand overhead from points adjacent the floor; a sand receptacle connected with and located at the lower end of the conveyor for feeding sand thereto; a vibrating sand screen mounted at the lower end of the conveyor and carried thereby from one location to another and operatively associated with said receptacle and disposed at the mouth thereof; and means mounted at the lower end of the conveyor and carried thereby from one location to another and connected with said receptacle and including a rotary member having a plurality of projections, including means cooperable with said projections, for crushing lumps of sand leaving the receptacle prior to the sand being carried by the conveyor.

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**2,646,603**
**FASTENING SLEEVE FOR BAND STRAPPING**
**Anton Latz, Koln-Hohenberg, Germany**
**Application June 28, 1950, Serial No. 170,749**
**In Germany July 20, 1949**
**1 Claim. (Cl. 24—23)**



A sleevelike strap seal adapted for mounting in guide means of a sealing device and for receiving the ends of a sealing strap extending about a package and for holding said strap ends in sealed position comprising sheet metal means forming a flat elongated tubular member having a side wall containing a longitudinal split, said tubular member being adapted to be operated on in the sealing device with the ends of said strap inserted therein to unite said seal with said strap ends, the opposite ends of said side wall of said tubular member adjacent said split extending angularly outwardly away from the axis thereof for the twofold purpose of facilitating the insertion of said strap ends into said tubular member and of facilitating insertion of said tubular member with said strap ends therein into guide means in said sealing device laterally thereof.

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**2,646,604**
**LOCK FOR CLOTHESLINES**
**Paul Tapernoux, Lynbrook, N. Y.**
**Application May 2, 1951, Serial No. 224,119**
**3 Claims. (Cl. 24—134)**

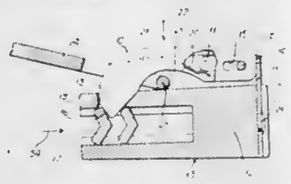


1. A lock for clotheslines and the like, comprising a metal casing of inverted U-shape, having two parallel side walls and a top wall which is integral with said side wall and which occupies a plane to which said side walls are substantially perpendicular, a pin fixed to said side walls transversely thereof and below said top wall at one end of said casing, said pin being adapted to hold one end of a clothesline which is tied thereto, a second pin rotatably connected to said side walls, transversely thereof and below said top wall at the opposite end of said casing, said top wall being shorter at said opposite end of the casing than the side walls, a ribbed roller fixedly and concentrically secured to said rotatably mounted pin between said two side walls so as to turn integrally with said rotatably mounted pin, the sides of said ribbed roller bearing against the inner sides of said side walls to prevent axial displacement of said rotatably mounted pin, and a pressure bar which is connected in parallel relation to said rotatably mounted pin for integral movement therewith, said pressure bar being spaced from said rotatably mounted pin a sufficient distance to enable said pressure bar to swing above said top wall of the casing, said ribbed roller being spaced a sufficient distance below said top wall of the casing to allow the opposite end of the clothesline to enter between said ribbed roller and said top wall of the casing, said pressure bar being spaced a sufficient distance above the top wall to enable said opposite end of the clothesline to enter between said pressure bar and said top wall after looping around the short end of said top wall from between said top wall and said ribbed roller to between said top wall and said pressure bar, whereby any pulling force upon said opposite end of the clothesline to free it from engagement with the ribbed roller and the pressure bar causes said ribbed roller to turn in such direction as causes the pressure bar to press tightly against the clothesline and to press said clothesline tightly against the top wall of the casing, said clothesline being thereby also pulled taut against said short end of the top wall of the casing to frictionally lock against said short end of said top wall and thereby further to resist such pulling force to free the clothesline from the ribbed roller and the pressure bar.



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**2,646,605**
**SAFETY AUTOMATIC LOCK SLIDER**
**Louis H. Morin, Bronx, N. Y.**
**Application September 21, 1948, Serial No. 50,359**
**15 Claims. (Cl. 24—205.14)**

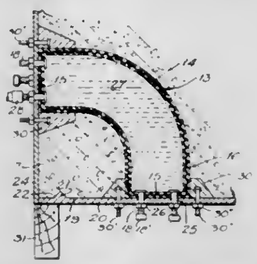


2. In a lock slider for separable fastener stringers comprising a channeled body movable along said stringers to couple and uncouple the same, a lock element movably supported on said slider and including a lock pin movable into and out of the slider channel for engaging scoops of said stringers, a member yieldably supported on said slider and biased so as to act against said lock element, said member being yieldable to enable the lock pin to ratchet over the scoops when the stringers are subjected to excessive strains, and spring means for retaining the lock element and lock pin in scoop-engaging position to arrest the slider against movement under normal strains.

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**2,646,606**
**RUBBER CORE MOLD**
**Horace H. Easterday, Thermal, Calif.**
**Application September 13, 1949, Serial No. 115,481**
**4 Claims. (Cl. 25—118)**

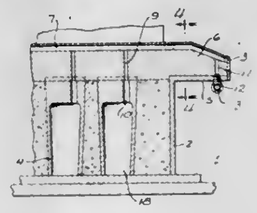
1. A mold for casting a concrete meter stand base having a quarter circular elbow passage therein for joining irrigation pipe lines, comprising: a bottom plate for forming the upper surface of said stand base, a side form for forming a side surface of the base, said bottom plate and side form each having an inwardly projecting collar, with a cylindrical inner wall and a frusto-conical outer wall, and each having a plurality of apertures disposed within the confines of the respective collars, a collapsible core including a tubular body of quarter-circular L-shape and end members closing the respective ends of said tubular body, respective ends of said core being receivable and adapted to closely fit within respective collars, threaded studs sealed and anchored in said end members and positioned for extension through respective ones of said apertures when said ends of the core are received in the respective collars, and nuts threaded



on the respective studs and operable to clamp said bottom plate and side form against said end members, at least two of said studs being in the form of tubular stems, whereby water may be injected into said core through one of said stems while air is bled from the core through the other of said stems, said core functioning to form, in said stand base, a quarter circular L-shaped passage, and said collars functioning to form, in said stand base, at the respective ends of said L-shaped passage, annular recesses coaxial with said passage ends and adapted to receive ends of pipe sections to be joined to said stand base, and to receive rings of sealing material around said pipe sections.

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**2,646,607**
**MEANS FOR PREVENTING COLLAPSE OF MOLDED CONCRETE PRODUCTS WHEN CORE IS WITHDRAWN**
**Robert O. Davis and Noel B. Osborne, Adrian, Mich., assignors to Stearns Manufacturing Company, Adrian, Mich., a corporation of Michigan**
**Application June 26, 1948, Serial No. 35,348**
**8 Claims. (Cl. 25—119)**

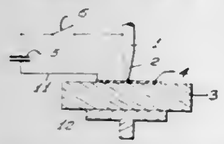


3. A mold box containing one or more cores and means for preventing the collapse of the hollow molded block when the cores and mold are stripped from the molded block which comprises the said mold box, the said core or cores, and a conduit and passageways through the core or cores for supplying compressed air to the space left by the core or cores in the block as they and the mold are withdrawn.

**2,646,608**
**PROCESS OF MANUFACTURING A MAGNETIC MATERIAL**
**Jan Boeke, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**
**No Drawing. Application April 8, 1946, Serial No. 660,421. In the Netherlands February 25, 1943**
**3 Claims. (Cl. 25—156)**

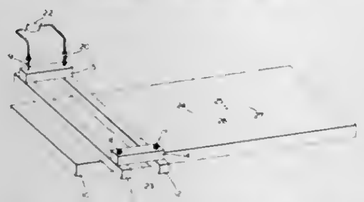
1. The method of manufacturing magnetic material, comprising the steps of treating ferric chloride with ammonium hydroxide, precipitating ferric oxy-hydrate out of solution, converting said ferric oxy-hydrate into active ferric oxide, mixing said active ferric oxide with pure copper oxide and pure zinc oxide, sintering the mixture thus obtained at temperature of about 950° for about three hours, slowly cooling said heated mixture to approximately 725° C., maintaining said sintered mixture for approximately 24 hours at a temperature of 725° C., and slowly cooling the sintered mixture to the ambient temperature.

**2,646,609**
**CRYSTAL AMPLIFIER**
**Harold Heins, Dorchester, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**
**Application July 19, 1948, Serial No. 39,529**
**2 Claims. (Cl. 29—25.3)**



1. The method of forming a multi-electrode semi-conductor unit including the steps of applying a metallic layer to a body of semi-conductor, applying a point contact to the metallic layer, passing a current through the circuit including the point contact and the metallic layer in series sufficiently intense to clean away the metallic layer from the semiconductor body in a limited area about said point contact and applying a point contact to said body in said area.

**2,646,610**
**METHOD OF POLARIZING CERAMIC TRANSDUCERS**
**Alfred L. W. Williams, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio**
**Application April 27, 1951, Serial No. 223,389**
**9 Claims. (Cl. 29—25.35)**



1. The method of polarizing in a predetermined direction a fired ceramic transducer material which is capable of retaining a remanent polarization after having had a unidirectional voltage applied thereto comprising: applying a unidirectional polarizing voltage between a first two points, spaced in said direction on a surface of said material, for an appreciable period of time and of sufficient magnitude as to effect a polarization in said material between said two points; and subsequently applying a unidirectional polarizing voltage between a second two points on said surface spaced from said first two points in said direction, with one of said second two points being between said first two points, and the other of said second two points being spaced from said first two points in said predetermined direction.

**2,646,611**
**GEAR CUTTER**
**Oliver F. Bauer, East Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York**
**Application April 23, 1947, Serial No. 743,380**
**11 Claims. (Cl. 29—105)**



1. A rotary gear cutter comprising two disc members of equal diameter which have cylindrical peripheral seating surfaces, a pair of ring members, one of which is secured to each disc to project radially therebeyond, said ring members being formed on their opposed faces with circularly arranged alternate slots and lands each of which extends generally radially of the axis of the cutter, the lands of one ring member being disposed opposite the slots of the other, a plurality of blades mounted in the slots of each ring member with their cutting portions projecting radially beyond the periphery of that ring member and with their bottoms seating against the periphery of the disc associated with that ring member, the blades mounted in the two ring members having, respectively, opposite side-cutting edges disposed at opposite sides for cutting, respectively, opposite sides of a gear tooth space, and having lateral overlap, and screws for securing the blades in said slots, each screw extending inwardly and rearwardly of the slot in which the blade is mounted and being inclined also to the side wall of the slot, and means securing the two disc members together to rotate as a unit.

**2,646,612**
**LIQUID PICK-UP AND TRANSFER MEANS**
**Howard E. Shearer, Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application August 5, 1947, Serial No. 766,301**
**10 Claims. (Cl. 29—121)**



1. A device for transferring a moist material onto the surface of an article comprising a movable member, means comprising spaced thin walls secured to and projecting outwardly of the surface of the member to define the outline of a design to be transferred by the member, and, snugly fitted between the walls, a substantially non-absorbent, hard, pressed fibrous mat having its exposed surface in the same plane as the outermost edges of the strips, at least 50% by weight of the fibers present in the fibrous mat being shrunk, organic, synthetic thermoplastic fibers adhesively bonded to each other and to any other fibers present in the mat, said mat having substantially permanent dimensional stability and resistance to swelling, shrinking and distortion in the presence of moisture.

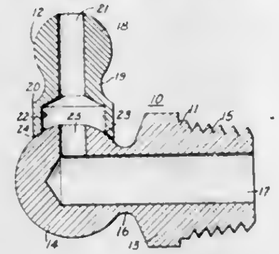


**2,646,613**
**METHOD OF MAKING SWITCH CONTACTS**
**Paul Robert Enzler, Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application September 12, 1946, Serial No. 696,558**
**9 Claims. (Cl. 29—155.55)**



1. The method of forming a contact by inlaying an insert member in the surface of a base member comprising the steps as follows: forming an aperture in the base member; displacing base material from one end of the aperture to substantially close the other end of said aperture to form a recess opening on to one surface of the base member; placing an insert member within said recess; pressing at least the peripheral edges of the insert firmly into engagement with a portion of the base member adjacent said recess; and indenting the base member around the insert to displace a portion of the base member inwardly upon the edges of the insert to hold it in place by mechanical engagement.

**2,646,614**
**METHOD OF MAKING LUBRICATING FITTINGS**
**Austin L. Staley, Fox Chapel, Pa., assignor to Universal Lubricating Systems, Inc., Oakmont, Pa., a corporation of Delaware**
**Continuation of abandoned application Serial No. 790,375, December 8, 1947. This application August 18, 1948, Serial No. 44,883**
**1 Claim. (Cl. 29—157)**



In a method of making a lubricating fitting, the steps including forming a fitting body having a head at one end and a shank at the other, drilling a passage through the shank and into the head, forming a tip for said body, forming a countersink in one end of said tip, welding said one end of the tip to said head and drilling a passage through said tip and into the head intersecting said first-mentioned passage.

**2,646,615**
**BIMETALLIC ELEMENT**
**Max J. Stumbock, South Orange, and William La Rue Perrine, Maplewood, N. J., assignors to Baker & Co., Inc., Newark, N. J., a corporation of New Jersey**
**No Drawing. Application January 21, 1950, Serial No. 139,968**
**2 Claims. (Cl. 29—195.5)**

1. Thermostatic metal strip, comprising a plurality of layers, the higher expansion bonded layer being a heat-resistant alloy comprising chromium in an amount of from 10% to 29% and metal of the group consisting of nickel and cobalt, said metal being present in an amount of from 9% to 80%, the lower expansion layer comprising essentially platinum alloyed with another metal of the platinum group, said other metal being present in the amount of from about 10% to about 30%.

**2,646,616**
**COMPOSITE METAL HAVING PRECIOUS METAL SURFACE AND BERYLLIUM-COPPER BASE**
**Ermand H. Davignon, Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts**
**Application September 6, 1949, Serial No. 114,266**
**12 Claims. (Cl. 29—199)**

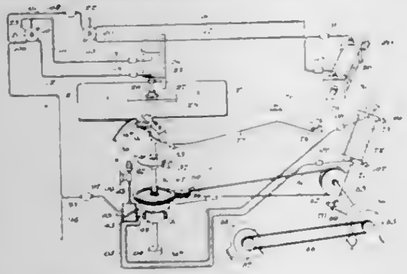



1. A composite corrosion-resistant laminated metal comprising a beryllium-copper base layer, an anti-oxidant protective metal layer bonded to said base layer, a solder layer bonded to said protective layer, a barrier metal layer bonded to said solder layer, a nickel layer bonded to said barrier metal layer, and a precious metal layer bonded to said nickel layer, said solder layer having a melting point exceeding the solution annealing temperature of beryllium-copper, the bonds between adjacent layers remaining intact at the solution annealing temperature of beryllium-copper, said barrier metal being a substantially non-ferrous alloy containing predominantly one of the group consisting of nickel and copper, said barrier metal being solder-diffusible and of sufficient strength to withstand the layer separating forces at the solution annealing temperature of beryllium-copper.

**2,646,617**
**ASSEMBLY MACHINE**
**Nicholas L. Turoff, Baltimore, Md., assignor to National Store Fixture Co., Inc., Baltimore, Md., a corporation of Maryland**
**Application April 15, 1949, Serial No. 87,685**
**11 Claims. (Cl. 29—200)**

1. An apparatus for assembling a table top or the like with edging therefor comprising means for rotating said top, a pressure arm having one end positioned adjacent the edge of said rotating top, means including a fluid pressure cylinder and piston for applying a uniform fluid pressure through said arm to said edging as it is being assembled with said top, a conduit connected to each end of said cylinder, valve means connected to a source of fluid pressure and said conduits to supply pressure fluid to either end of said cylinder to thereby move said pressure arm toward or away from said top, a speed control valve in each of said conduits to control the speed of movement of the said pressure arm, and re-

lief means attached to one end of the cylinder to prevent application of an excessive fluid pres-



sure when the piston is being moved rapidly against the source of the fluid pressure.

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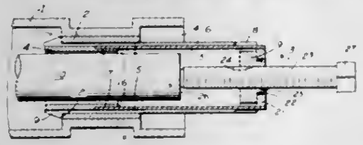
**2,646,618**
**COMPRESSOR FOR VEHICLE SUSPENSION SPRINGS**
**Lowell W. Simons, Long Beach, Calif., assignor of one-half to William N. Deatherage, Long Beach, Calif.**
**Application October 16, 1948, Serial No. 54,881**
**1 Claim. (Cl. 29—227)**



A compressing tool for vehicle suspension springs mounted between the vehicle frame, and an A frame comprising a pair of horizontally spaced arms, said arms being curved from end to end thereof, and the high point of the curve being mid-way between the ends of said arms, a finger bolted to one end of each of the arms, each of the fingers being adjustable around said bolt, a fixed rod extending between the arms, said rod being fixedly secured to both of the arms and positioned at the high point of the curve of said arms, an arcuate tray mounted on the outer ends of both of said arms and at the end opposite said fingers, and a pivot pin extending through the arms and into said tray whereby the tray is pivotally attached to the arms, said tray being bifurcated and the ends of said fingers opposite the attachment to said arms being bifurcated.

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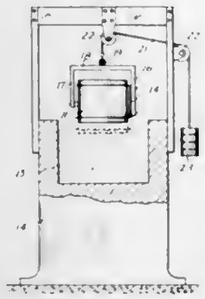
**2,646,619**
**BUSHING REMOVER TOOL**
**Hester E. McCord, Toccoa, Ga.**
**Application August 14, 1950, Serial No. 179,290**
**3 Claims. (Cl. 29—263)**



2. A bushing remover tool for removing a bushing seated internally in a housing including a shaft centrally thereof and terminating in the vicinity of the bushing, comprising a tubular collet body, slits at one end of said body forming dog members therebetween, a raised and tapered head on said dog members at their free end, a substantially vertical shoulder on said head; said dog members collapsing sufficiently to pass thru the bushing when said tapered head is pressed against the bushing, said dog members springing back to their normal diameter when their raised head has passed completely thru the bushing, said shoulder abutting one end of said bushing when the dog members are in this position; a head piece at the other end of said body, a pull screw threaded thru said head piece and adapted to act between said head piece and said shaft to apply pressure to said collet body to pull both the bushing remover tool and the bushing from the housing in an axial direction with respect to said bushing; a locking ring structure comprising a cylindrical lock ring operating within the tubular body in close sliding relationship thereto, slots in the side of the tubular body, grooves in said head piece, guide straps attached to the lock ring and extending thru the slots and grooves to the outside of the body, an end piece connecting the outside ends of said straps, a hole in said end piece to permit said locking ring structure to be moved lengthwise of said pull screw in surrounding relation thereto so that the position of the lock ring may be manually adjusted externally of the body to permit or prevent collapse of said dog members.

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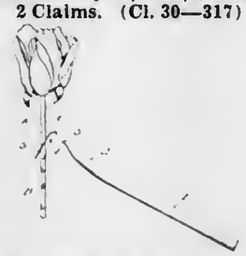
**2,646,620**
**METHOD OF JOINING TOGETHER THE ENDS OF THIN-WALLED ALUMINUM HEAT EXCHANGE TUBES**
**Walter H. Geddes, Dayton, Gunnar G. Karlson, Miamisburg, and Matthew Werensky, Dayton, Ohio, assignors to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio**
**Application April 14, 1947, Serial No. 741,186**
**5 Claims. (Cl. 29—360)**



1. The method of joining together the expanded ends of thin walled aluminum heat exchange tubes to form an oil cooler core or the like; comprising the steps of dipping one end of an assembled core into a flux suspended in alcohol, particles of flux being drawn up between the expanded tube ends by capillary action; heating the fluxed end to drive off the alcohol and leave a dry flux; suspending the core assembly over a bath of molten solder, the fluxed core end being immediately above the surface of the solder; allowing said core assembly to remain so suspended until the flux begins visibly to fuse and then dipping the fluxed end into the molten solder; withdrawing and cooling said fluxed end after a period of immersion in the solder not exceeding 10 seconds; and then repeating the foregoing steps with respect to the other or opposite core end.



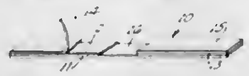
**2,646,621**
**THORN-REMOVING DEVICE AND STEM CUTTER**
**Paul Catanese, Norristown, Pa.**
**Application February 20, 1952, Serial No. 272,579**
**2 Claims. (Cl. 30—317)**



1. A device for removing thorns and the like from a stem comprising an elongated tubular handle, the forward end portion thereof being curved slightly upwardly and terminating in a flattened socket, a head comprising a flat plate-like body, a reduced flat shank formed on the upper end of the body and extending rearwardly therefrom, the free end portion of the shank being secured in the flattened socket, whereby the head will be disposed at substantially right angles to the handle, said body being formed with an inverted V-shaped notch that extends upwardly from the lower edge of the body, said notch adapted to embrace the stem, the edges of the notch being sharpened for cutting and removing the thorns when the handle is grasped and the head is moved downwardly along the stem.

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**2,646,622**
**DENTAL MATRIX APPARATUS**
**Donald R. Christie and Merton M. Bottemiller, Wadena, Minn.**
**Application June 17, 1950, Serial No. 168,702**
**3 Claims. (Cl. 32—63)**

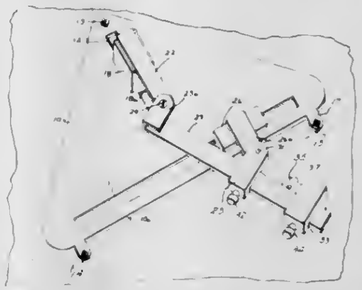


1. A dental matrix comprising a long band of relatively uniform width and formed of thin flexible material having adhesive material on the end portions thereof and having an intermediate portion free of adhesive for the full width of the band and adapted to engage a filling, said band being adapted to be looped around a tooth with the intermediate non-adhesive portion engaging a filling and with the adhesive portions adhering to the tooth.

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**2,646,623**
**ELLIPSOGRAPH**
**Jesse C. Coats, Pocatello, Idaho**
**Application May 1, 1951, Serial No. 223,918**
**2 Claims. (Cl. 33—31)**

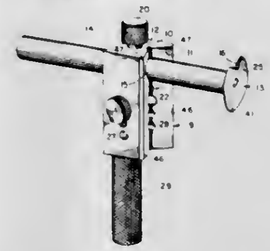
2. In an ellipsograph, a base plate, three needle point supports for said base plate positioned at the corners of an isosceles triangle so that the two supports at the base of the triangle may be set upon the major axis line with the third support on the minor axis line of an ellipse to be drawn, a runner slidably mounted on said base for movement parallel to a line connecting said two supports, a second runner slidably mounted on said base for movement along a line through the third support and perpendicular to the path of movement of the first named runner, said second runner having a pivot thereon spaced above the base plate, a scribing arm having a laterally offset, raised portion connected to the pivot of the second runner, a bar adjustable lengthwise of said scribing arm and having a pivot connected to said first named runner, said last named pivot being spaced the same distance from the scribing arm



as the first named pivot but below the level of the first named pivot and above the base plate so that the pivots may be moved into vertical alignment, and a scribing tool holder adjustable lengthwise on said scribing arm, said tool holder having a tool mounting socket offset laterally and downwardly with respect to the scribing arm to lie in a common vertical plane with said pivots but below the levels of said pivots.

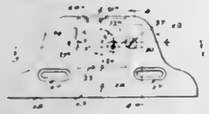
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**2,646,624**
**UNIVERSAL GAUGING AND SCRIBING MEANS**
**Elmo F. Ruby and Willard B. Owen, Cicero, Ill.**
**Application April 17, 1952, Serial No. 282,876**
**8 Claims. (Cl. 33—42)**



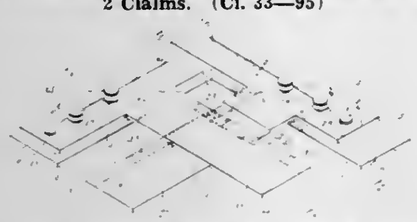
1. Universal gauging and scribing means comprising a parallelepipedic body provided with V locating means on one of its faces, scriber bore means transversely related to the said V locating means, gauging bore means in parallel relationship to the said scriber bore means, scriber means having frusto-conical scribing means secured thereto, the said scriber means being slidably and adjustably secured in the said scriber bore means, gauging means secured slidably and adjustably in the said gauging bore means and provided with a gauging head portion and a reduced tip portion defining a precise gauging standard between extreme limits thereof, clamp means for securing the said scriber means in the said body, and auxiliary clamp means for securing the said gauging means in the said body in varied precise and predetermined relationships with respect to the base of the said frusto-conical scribing means, the base of the said frusto-conical scribing means and the said gauging head portion being disposed in partial overlapping relationship to afford rectilinear points of contact to a measuring instrument applied thereto.

2,646,625
**ADJUSTABLE PEEP SIGHT FOR FIREARMS**
Ernest T. Lake and Robert R. Hardgrove, Livingston, Mont.
Application February 16, 1951, Serial No. 211,282
3 Claims. (Cl. 33—56)



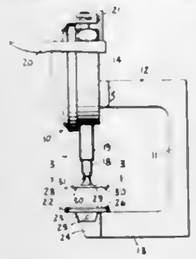
1. An adjustable peep sight for firearms comprising a plate-like supporting member adapted to be mounted in an upright position above and transversely of a firearm, said plate-like supporting member having an upper portion provided with an upwardly opening notch defined by parallel inwardly facing side edges and a bottom edge disposed at a right angle to each of said side edges, a square peep sight block sized to fit snugly into said notch and provided with a peep sight opening extending through the blocking from side to side thereof, the opening of said peep sight block being offset from the center of the block toward two edges thereof whereby different edges of the block may be disposed in engagement with the side edges and bottom edge of the notch for varying the position of the peep sight opening relatively to the center of the notch.

2,646,626
**STAMP LAYOUT DEVICE**
Abraham Palin, New York, N. Y.
Application January 9, 1951, Serial No. 205,147
2 Claims. (Cl. 33—95)



1. An adjustable device for locating the positions of postage stamps on a page comprising an L-shaped member of flat transparent material, a first T-shaped member of flat transparent material, a second T-shaped member of flat transparent material, means slidably connecting the head portion of the first T-shaped member to one arm of the L-shaped member for movement therealong, means slidably connecting the head portion of the second T-shaped member to the other arm of said L-shaped member for movement therealong, the stem portions of the T-shaped members overlapping and the inner edges thereof defining an aperture of predetermined size with respect to the inside corner of the L-shaped member, said second T-shaped member having an offset stem portion of flat material, the top face of said offset portion lying in the plane of the top face of the L-shaped member whereby said stem portions overlap with the adjacent faces in the same plane respective hair lines inscribed on the stem portions of the T-shaped members parallel to the edges thereof, a diagonal hair line inscribed on the L-shaped member at the corner thereof, and respective diagonal hair lines inscribed on the head portions of the T-shaped members, each of said diagonal hair lines being arranged to terminate inwardly at said aperture.

2,646,627
**THICKNESS GAUGE FOR LENSES**
Edgar D. Tillyer and Joseph Robert Eves, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 16, 1948, Serial No. 65,686
2 Claims. (Cl. 33—143)



1. A measuring device for determining the mean thickness of a lens formed of relatively hard transparent material at a given distance from the center thereof, said device comprising a pair of arms mounted for relative movement toward and away from each other, a relatively rigid supporting member secured to one of said arms and having effectively sharp contacting means projecting to and terminating in a plane, said means lying along a circular path in said plane and defined by a radius equal to approximately the distance from the center of the lens at which its mean thickness is to be determined, and a contact member secured to the other arm by a universal connection whose center lies along a line drawn through the center of and approximately normal to the plane in which the said sharp contacting means carried by the first arm terminates, said contact member having three substantially non-yielding pin point contacts extending in the direction of said sharp contacting means and spaced equidistantly from each other and from the center of said universal connection for engaging the opposed surface of the lens to be measured, the ends of said pin point contacts lying in substantially the same plane and at a distance from said center line equal to approximately the radius of said circular path, and indicating means operable in response to movement of said arms relative to each other whereby a lens of non-uniform thickness at said distance from the center thereof may be positioned between the sharp contacting means and spaced pin point contacts with its center along said center line and the projecting means and spaced pin point contacts brought into engagement with the opposed surfaces of the lens to obtain an indication of the mean thickness of said lens at said given distance from the center thereof.

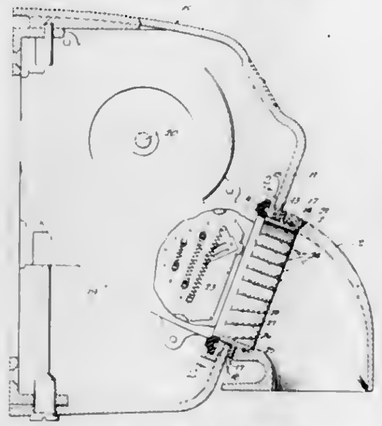
2,646,628
**SPIRIT LEVEL AND PROCESS OF MAKING THE SAME**
Saul Shaler, Jackson Heights, N. Y.
Application June 25, 1951, Serial No. 233,370
6 Claims. (Cl. 33—211)



5. A glass spirit level tube, one end of which is closed by a heat seal enclosed within a cellulosic cement.



2,646,629
**FORCED AIR DRIER**
George S. Clemens, Evanston, Ill., assignor to National Dryer Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application September 26, 1952, Serial No. 311,689
5 Claims. (Cl. 34—243)



1. In a forced air dryer, a casing equipped with a downwardly-curved discharge nozzle, an electric resistance element in said casing adjacent said nozzle, means for energizing said element, means for discharging air past said resistance element and through said nozzle, a louver support mounted in the discharge portion of the casing and louvers carried by said support, the louvers in the upper portion of the support being substantially straight and parallel and the louvers in the lower portion of the support being inclined forwardly and upwardly.

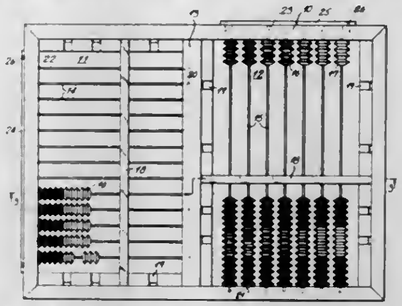
2,646,630
**EDUCATIONAL SHOELACE**
Edna Barlow Miller, Camp Lejeune, N. C.
Application March 6, 1950, Serial No. 147,875
2 Claims. (Cl. 35—1)



1. An educational shoe lace for teaching children to tie a bow knot having indicia in the form of pictorial representations on one end portion of the lace so spaced that when said end portion is folded upon itself to bring the indicia face to face a bow loop is formed; and having indicia also in the form of pictorial representations on the other end portion of the lace to provide a guide for threading said other end portion behind the loop to form a double bow knot, said pictorial representations being so spaced and fragmented that when the bow is properly tied a unitary pictorial representation is attained.

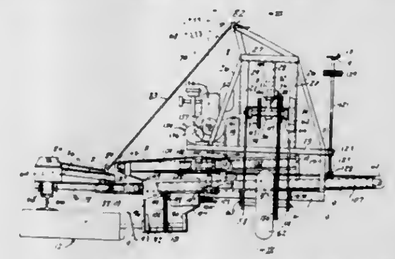
2,646,631
**COMBINED ABACUS AND COUNTING RACK**
Nathan Lazar, New York, N. Y.
Application January 22, 1947, Serial No. 723,553
3 Claims. (Cl. 35—33)

1. A combined counting rack and abacus comprising a frame, means dividing the same into two sections, a series of parallel rods within each of said sections, the rods in one of said sections being perpendicular to those in the other section so as to extend in the horizontal direction when the frame is in a substantially vertical plane and to constitute the counting rack section of said apparatus, and counters arranged on said



rods, the counters on the counting frame being visibly similar to and thus recognizable as having the same value as the counters in the units column of the abacus and being visibly dissimilar from the counters in the other columns of the abacus.

2,646,632
**BALLAST REMOVING MACHINE**
Knox Kershaw, Birmingham, Ala.
Application July 11, 1947, Serial No. 760,444
7 Claims. (Cl. 37—104)

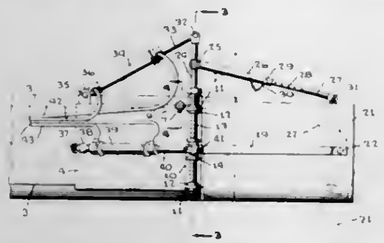


1. In apparatus for removing ballast from between the cross ties in a railroad track including, a main frame disposed alongside the railroad track, a hydraulic cylinder and plunger therefor vertically disposed in the main frame, and a reciprocable auger operatively connected to the main frame and disposed to enter the spaces between the cross ties and remove ballast therefrom, the combination of a walking beam pivotally mounted between its ends on the plunger to be raised and lowered thereby, a pair of supporting wheels mounted on axles disposed to rest on the roadway alongside the track and depending from the ends of the walking beam, links pivotally connected at either end to the main frame and to the wheel axles, and driving means for the supporting wheels.

2,646,633
**SHOULDER SHAPING ATTACHMENT FOR ROAD WORKING MACHINES**
William L. Jahn, Grand Forks, N. Dak.
Application July 17, 1951, Serial No. 237,176
7 Claims. (Cl. 37—155)

1. The combination with a road machine having a main blade, of a shouldering attachment including a supporting plate removably and fixedly connected to said main blade; a vertical

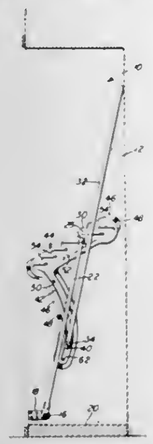
screw mounted on said plate for rotation under the control of an operator; a follower threadably engaged with said screw for movement vertically of the screw responsive to rotation of the screw; an extension blade connected to the follower so as to swing vertically and horizontally upon the



main blade, said vertical movement of the follower constituting means for bodily shifting the extension blade vertically of the main blade; and means carried by the supporting plate and operatively associated with the extension blade to effect said vertical and swinging movements of the extension blade relative to the main blade.

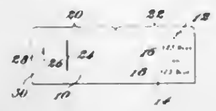
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**2,646,634**
**ADJUSTABLE IRONING BOARD**
**George Mongar, Missoula, Mont.**
**Application January 30, 1950, Serial No. 141,286**
**1 Claim. (Cl. 38—127)**



An ironing board of the character described comprising a closet open at its front and including spaced side walls, a pair of opposed guides mounted on said side walls, said guides having rearwardly and upwardly inclined slots therein and further having a series of horizontally elongated, forwardly extending notches in the upper longitudinal walls of the slots, an elongated board, a transverse shaft on one end of said board having its end portions operable in the slots and engageable selectively in the notches for shiftably and pivotally mounting the board in the closet, and a brace having one end pivotally mounted on the side walls below the guides and swingable in a vertical plane through the horizontal planes of all of the notches, said brace having its free end pivotally secured to the board at an intermediate point for supporting said board in a horizontal plane when the shaft is engaged in any of the notches.

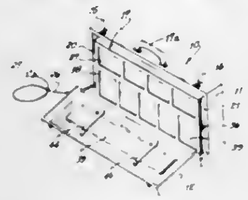
**2,646,635**
**GARMENT TAG AND METHOD OF AND APPARATUS FOR APPLYING SAME**
**Haddon S. Owen, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts**
**Application May 4, 1950, Serial No. 160,058**
**6 Claims. (Cl. 40—20)**



1. A tag of the type adapted to be applied over the edge of a piece of fabric or the like with its front and back extending along opposite sides of the fabric, the back having a transverse fold line near its free end forming a flap which can be folded back between the fabric and the back along a fold line, so that a staple may be extended through said front, thence through the fabric and thence through said flap with the ends of the staple disposed between the flap and back, and the tag having two openings to receive a staple anvil, the second opening being located at said fold line and the first opening having a substantial dimension transversely of the tag to admit a staple anvil directed toward the second opening and being wider than the second opening, whereby a staple anvil with a narrow tip may be inserted through the wider opening and thence under the folded flap with its tip projecting through the smaller opening, said openings being adapted cooperatively to position the tag laterally, and said flap fold line cooperating therewith to position the tag longitudinally on the anvil.

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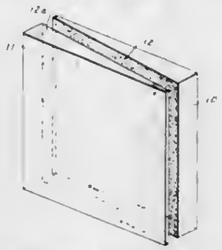
**2,646,636**
**TRANSPARENCY DISPLAY DEVICE**
**James W. Gandee, Los Angeles, Calif.**
**Application July 15, 1950, Serial No. 174,041**
**1 Claim. (Cl. 40—64)**



In a portable transparency display device, a carrying case comprising a rectangular box having side and end walls the forward edges of which lie in a common plane defining a front opening, a housing within said case having a front wall provided with a horizontal series of display openings, means forming a horizontal guideway for a slide panel, back of said front wall and contiguous thereto, the forward part of said housing, including said series of display openings and said guideway, projecting forwardly of the plane of the front opening of said case whereby lateral access is had to said guideway for the insertion of a panel of transparencies so positioned as to register with said display openings, a light source within said housing, and a cover member for said case hinged thereto at the bottom and of sufficient depth to contain the projecting part of said housing, when closed.



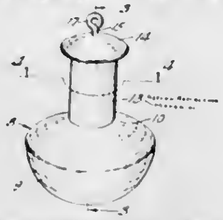
**2,646,637**
**DEVICE FOR TRANS-ILLUMINATING TRANSPARENCIES**
**Richard N. Nierenberg and William Mungall, Dayton, Ohio**
**Application January 26, 1950, Serial No. 140,701**
**8 Claims. (Cl. 40—86)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In a transilluminator, a wedge shaped block element of transparent plastic material having one face thereof uniformly roughened to provide a matte surface, a second wedge shaped block element of transparent plastic material having one face thereof uniformly roughened to provide a matte surface, said blocks being placed together with their matte surfaces in contacting relation to provide an illuminating block of substantially rectangular cross-section whereby substantially uniform total internal reflection obtains and illuminating means arranged adjacent the wide edge of each wedge shaped block whereby uniform illumination of the faces of the block obtains.

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**2,646,638**
**TRAFFIC WARNING AND DIRECTING SIGNAL**
**Robert J. Peterson, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware**
**Application October 6, 1949, Serial No. 119,793**
**2 Claims. (Cl. 40—125)**



1. A portable roadside-type traffic directing and warning signal comprising a mushroom-shaped weight, a tubular upright resting at its lower end on said weight, said upright being covered on its exterior surface with reflex-reflecting material, a head resting on and closing the open top of said upright, and an eye-bolt having its eye equipped end above said head and its shank passing through said head and upright and screwed into a socket provided therefor in said weight.

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**2,646,639**
**ANIMATED DISPLAY DEVICE**
**Stephen Toth, Flushing, N. Y., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**Application November 10, 1950, Serial No. 195,110**
**12 Claims. (Cl. 40—139)**

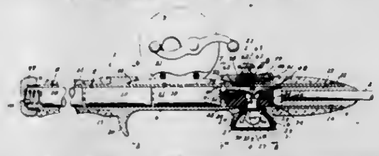
12. An animated display device comprising, in combination: an upright bill-board; a plurality of vertically elongated openings in said bill-board; a support in rear of the bill-board; a plurality of insignia carriers, one for each of said openings, each carrier having a supported part secured to the support at a fixed location on the support, at least one resilient part, and a part at the respective opening that is movable substantially vertically upon flexure of said resilient part; an insignia device in front of the bill-board at each opening therein and secured to the movable part of the insignia carrier thereat through the respective opening for independent, substantially vertical movements of the several insignia devices with respect to said support and bill-board by




flexure of the resilient parts of the several carriers; and actuating means for imparting substantially vertical movements to said insignia devices including a common movable member on the support and a plurality of drive elements connected to said movable member and connected thereto in diffcrent phase relations to be recurrently, successively and vertically moved thereby, said drive elements being disposed to engage the respective carriers at parts thereon separated from the insignia devices by resilient parts of the carriers to permit free oscillations of the insignia devices independently of the motions of the drive elements.

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**2,646,640**
**HANDLE FOR FISHING RODS**
**Oscar C. George, Bronson, Mich.**
**Application April 16, 1948, Serial No. 21,390**
**9 Claims. (Cl. 43—17.5)**



1. A handle for a fishing rod comprising a tubular body provided with a socket at its forward extremity for detachably receiving a rod, a rear extremity, and an intermediate portion, said rear extremity and said intermediate portion forming a casing for a battery, a cap carried by said rear extremity for retaining a battery in said body, a reel seat provided adjacent the upper side of said intermediate portion, means adjacent the extremities of the reel seat for holding a reel mounting plate on the seat, a lamp and reflector disposed in the under side of said intermediate portion, means for connecting a battery in circuit with the lamp, and a switch disposed adjacent the forward extremity and interposed in the circuit for controlling the operation of the lamp.

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**2,646,641**
**FISHING ROD HANDLE**
**Oscar C. George, Bronson, Mich.**
**Application March 27, 1950, Serial No. 152,255**
**16 Claims. (Cl. 43—17.5)**

1. A fish pole having a tubular housing for a battery, said housing having on one side thereof

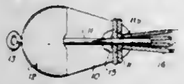
reel plate holding means, said means including a slidable clamp and a fixed clamp, said fixed clamp being formed to provide a lamp enclosure whereby a beam of light may be directed laterally



from another side of such housing, means for electrically connecting a lamp in a circuit with a battery, and a manual controlled switch for opening and closing the circuit.

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**2,646,642**
**FISH LURE**
**Ronald B. Dunham, Birmingham, Mich.**
**Application May 9, 1950, Serial No. 160,917**
**1 Claim. (Cl. 43—42.28)**



A fish lure comprising a tapering spoon defining a relatively small restricted tail-piece carrying end having an enlarged circular aperture therein, a hook having a shank extending longitudinally of the spoon and spanning and bisecting said aperture thereby defining a relatively large segmental aperture in the spool to each side of the shank to facilitate the threading of a tail-piece therethrough, a line-attaching means at one end of said hook, a barb at the opposite end of said hook, a tail-piece including a gripping portion surrounding the shank and having a plurality of strands with rearwardly projecting end portions extending beyond the barb and also extending outwardly through the segmental aperture upon each side of the shank, said gripping portion having a loop portion extending below the spoon, the loop portion having a twisted portion extending around the spoon adjacent the aperture to tie the strands, and the strands having unravelled portions extending beyond the barb to define a feather-like shield for the barb beyond the barb.

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**2,646,643**
**FISHING FLOAT**
**Per Adolf Nordlund, Stuvsta, Sweden**
**Application January 22, 1951, Serial No. 207,219**
**In Sweden May 2, 1949**
**1 Claim. (Cl. 43—43.11)**



In a fishing float including a hollow buoyant body having openings for passing a fishing line therethrough, a line control device comprising a mounting within said float, an inner, threaded shaft rigidly secured at both ends thereof to said mounting laterally of the center line of the float, a runner threaded on to said inner shaft and having a pin projecting substantially radially therefrom, a rotatable tubular member coaxial with and enclosing said inner shaft, said tubular member having a longitudinal slit receiving said runner pin, and a line wheel rigidly mounted on said rotatable tubular member, said wheel receiving a turn of the fishing line in order to be rotated as the line moves through the float.

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**2,646,644**
**WIND-DRIVEN NOVELTY DEVICE**
**Warren Richmond, Brooklyn, N. Y.**
**Application February 15, 1952, Serial No. 271,675**
**7 Claims. (Cl. 46—58)**

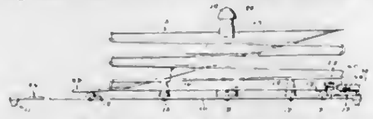


1. A novelty device comprising an elongated handle, a rotor, and means mounting said rotor on said handle at one end of the latter for rotation about an axis inclined relative to the longitudinal center line of said handle, said rotor comprising a body of sheet material including a center portion of circular shape, spoke portions extending radially from said center portion at substantially equal angular intervals therearound and disposed substantially in a common plane, vane portions extending one along each side edge of each spoke portion with the two vanes associated with each spoke portion extending to respectively opposite sides of the plane of said spoke portions and inclined relative to said plane, tabs disposed one at the outer end of each spoke portion and extending to the same side of said plane substantially perpendicular to the latter, straps extending one from each of said tabs at the edges of the latter remote from the corresponding spoke portions and extending inwardly of said tabs with their ends remote from said tabs overlapping at the center of said rotor, and a hub structure mounted on said center portion, and said means mounting said rotor on said handle comprising a block secured to said handle, a pin extending through said hub structure and the center portion of said rotor and through the overlapped end portions of said straps and having one end inserted into said block, and spacing sleeves receiving said pin between said block and said hub structure and disposed one at each side of the overlapped end portions of said straps.

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**2,646,645**
**TOY AIRPLANE AND TRACK**
**Joseph Cuervo, Woodside, N. Y.**
**Application March 29, 1949, Serial No. 84,180**
**4 Claims. (Cl. 46—76)**

1. In a toy amusement device, a platform, a rail supported above said platform, a toy airplane mounted for travel along said rail, a plunger supported on said platform for engagement with said airplane, a landing area arranged on said platform for receiving said airplane after the airplane leaves said rail, and a plurality of blocks projecting upwardly from said platform for supporting said rail thereon, said rail having an end

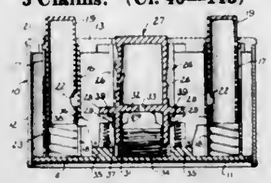


adjacent the landing area and having an undulating slot receiving a shank depending from the airplane, whereby the wings of the airplane will periodically dip upon movement of the airplane therealong to thereby simulate a realistic flight of an airplane.

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**2,646,646**
**HAMMER TOY**
**Marvin I. Glass, Chicago, Ill.**
**Application July 16, 1951, Serial No. 236,957**
**5 Claims. (Cl. 46—145)**



1. A toy comprising a base member, at least two substantially adjacent cylindrical members supported on said base member, a plunger reciprocable in each of said cylindrical members, spring means in each of said cylindrical members acting on said plungers to urge the same outwardly, and a pivoted latching member pivotally movable between said adjacent cylindrical members and engageable at any one time with either of said plungers that when one plunger is depressed it is engaged by said latching means and locked in depressed position while the other of said plungers is caused to be disengaged and projected to extended position.

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**2,646,647**
**PROCESS AND APPARATUS FOR BENDING AND TEMPERING GLASS**
**William P. Bamford, Maumee, and Joseph E. Jendrisak and Gerald White, Rossford, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio**
**Application September 10, 1948, Serial No. 48,664**
**10 Claims. (Cl. 49—7)**

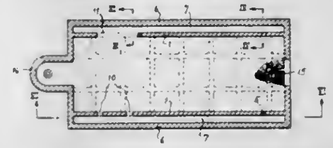


1. In a method of bending a sheet of glass in which the glass sheet is supported in bending relation to the shaping surface of a mold and the mold and glass sheet are moved through a high temperature region that includes a source of radiant heat energy with said glass sheet softening and conforming to the shaping surface during travel through the high temperature region, the steps of heating the glass sheet to bending temperature by radiant heat directed toward the sheet from said source, intercepting certain portions of said radiant heat energy that is directed toward the glass sheet during bending thereof with a stationary heat deflector located within said high temperature region and between the source of radiant heat energy and selected areas of the path of the glass by moving the mold and glass sheet relative to said stationary heat deflector to bring selected portions of the glass into position to be shielded by said heat deflector, and subsequently uniformly heating the entire surface of the glass to substantially uniform temperature by moving the mold and glass sheet relative to said stationary heat deflector to bring said sheet out of said shielded position while still in said high temperature region.

4. In equipment for tempering bent glass sheets, in combination, plenum chambers above and below the path of the bent glass sheets to be tempered, a plurality of elongated spaced removable transverse nozzles mounted on each of the chambers and directed toward and into close proximity with the path of the glass, said nozzles having long narrows orifices at their outer ends extending from side to side of said bent glass sheets and having their said outer ends curved to substantially conform to the curve of the bent sheet, conveyors extending along the sides of the lower plenum chamber, and a mold having a shaping surface that contacts narrow marginal areas only of the bent glass sheet that straddles the nozzles of the lower plenum chamber and rides on the conveyors, said conveyors including first sections that are operated at relatively high speed to quickly locate the mold between the nozzles and second sections operated at slow speed for continuing the motion of the mold with relation to the nozzles.

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**2,646,648**
**TANK FOR THE MANUFACTURE OF GLASS**
**Pierre Arbeit, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France**
**Application April 13, 1949, Serial No. 87,179**
**In France April 16, 1948**
**4 Claims. (Cl. 49—54)**



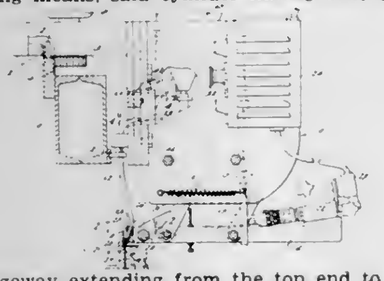
1. A tank furnace for the continuous manufacture of glass comprising, in at least one zone of the furnace, partitions parallel or substantially parallel to the side walls of the tank and delimiting between each partition and the corresponding side wall a glass layer acting as a thermal screen between the glass mass under treatment and said side walls, said partitions having communicating means in the upper level providing for the passage of hot glass from the glass mass under treatment to the glass layer, and being provided at a lower level and in a colder zone of the tank with other communication means allowing the cooled glass of the layer to mingle with the glass mass under treatment.

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**2,646,649**
**STRUCTURE AND METHOD FOR CLEANING WELDING RODS**
**Eugene E. Rhodes, Dearborn, and Harry G. Scholtz, Wyandotte, Mich., assignors to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware**
**Application February 4, 1952, Serial No. 269,862**
**5 Claims. (Cl. 51—8)**

2. In a device for removing adhered flux from the end of a welding rod, a cylinder, a piston in

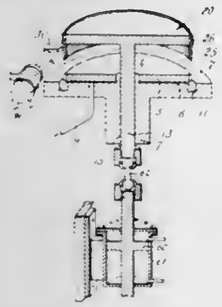
said cylinder having a recessed central portion, a supply conduit to said cylinder communicating with said recessed portion when the piston is in retracted position, means for retracting said piston, a conduit connected to the opposite end of the cylinder for delivering air to the opposite end of the piston from that containing the retracting means, said cylinder having a by-pass



passageway extending from the top end to the recessed portion of the piston when the piston is in delivering position, and a delivering conduit on said cylinder from which the flux granules in the recessed area of the piston are forced by the by-passed air from the top of the piston when the piston is near the end of its stroke to delivering position.

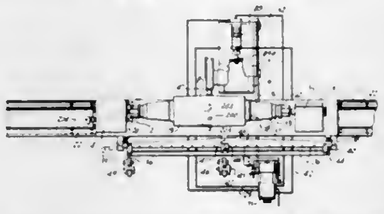
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**2,646,650**
**METHOD, MACHINE, AND TOOL FOR LAPPING DIVIDING HEADS AND GEARS**
**John D. Strong, Baltimore, Md.**
**Application November 5, 1949, Serial No. 125,790**
**10 Claims. (Cl. 51—59)**



7. A tool for lapping the teeth of gears comprising a plurality of elastic laps and means rigidly supporting said laps at one end thereof with said ends in a circular array and with the axes of said laps substantially parallel to the line which passes through the center of the circle to which said array conforms and which line is perpendicular to the plane of said circle, said laps having a constant triangular section over a portion of the length thereof extending from said supporting means by a distance not less than the thickness of a gear to be lapped and having beyond said portion a triangular section tapering outwardly from the sides closest the center of said circular array towards the ends of the laps remote from their supported ends to facilitate entrance of said ends of the laps into the notches between the teeth of gears to be lapped, said laps being bounded over said portion of their length on the side thereof facing the center of said array by two plane dressing faces conforming to the surfaces to be imparted to the adjacent faces of two adjacent teeth on said gear.

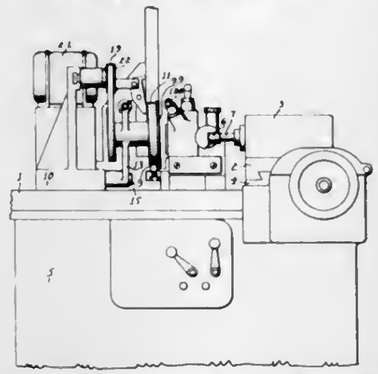
**2,646,651**
**HYDRAULIC ROLL GRINDER**
**Bert A. Wilson, Pittsburgh, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware**
**Application February 15, 1949, Serial No. 76,436**
**5 Claims. (Cl. 51—100)**



4. In a roll grinding machine, a machine bed, a table mounted for sliding movement on said bed, a slide for supporting a grinder wheel head extending transversely of the path of movement of the table, a grinder head mounted on said slide carrying a grinding wheel, pressure fluid means for moving said head to and away from said table, a valve for controlling the application of pressure fluid for actuating said grinder wheel head, a templet mounted on the table, means for adjusting the contact surface of the templet to the desired contour of the roll to be ground, means engaging said templet for operating said valve in response to movement of said table, said valve comprising a valve housing, a spool valve in said housing, ports controlled by said spool valve connected to a source of pressure fluid and to a sump, spring means normally biasing said spool valve to one position of its travel, fluid pressure means counteracting said spring means, and a lever for regulating the pressure on said fluid pressure means, said lever being biased by a spring relative to its fulcrum point and a follower mounted on said lever for engaging the templet of the table to effect movement of the spool valve and for directing pressure fluid to and from the operating cylinder of the grinder wheel head in response to movement of the table.

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**2,646,652**
**INTERNAL GRINDING MACHINE**
**Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts**
**Application August 16, 1951, Serial No. 242,102**
**22 Claims. (Cl. 51—103)**



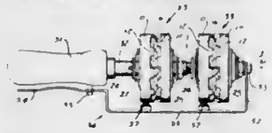
1. In an internal grinding machine for refining an inner surface of revolution of a workpiece, said



workpiece having an outer preformed surface of revolution, and in combination, means to rotate the workpiece, fixed work support means having an arcuate concave surface generally conforming with said outer preformed surface and extending circumferentially in contact therewith sufficiently to bridge irregularities thereon and to position the rotating workpiece radially, a grinding tool applicable to said workpiece to refine said inner surface, rotating end stop means abutting the workpiece preventing its axial movement in one direction, and pressure means independent of said end stop means engageable against and located by the workpiece to hold it against said support means and against said end stop means.

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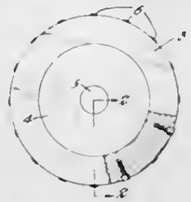
**2,646,653**
**GRINDER WITH MESHING TEETH FOR KNIVES, ETC.**
**Blackwell K. Murchison, Brooklyn, N. Y., assignor, by mesne assignments, to Bessie F. Murchison, Brooklyn, N. Y.**
**Application December 31, 1948, Serial No. 68,516**
**2 Claims. (Cl. 51—111)**



1. In a device of the class described, a rod, a handle on one end of said rod, a disc shaped grinder coaxially mounted on said rod, a strip of flexible material attached at one end on the free end of said rod and extending adjacent said grinder and having an end portion spaced adjacent said handle, and a friction element mounted on said strip and engageable against said grinder when the last mentioned end portion of said strip is moved towards said handle.

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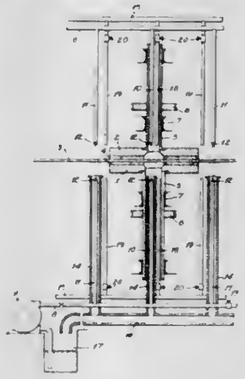
**2,646,654**
**DEVICE FOR DRESSING COATED ABRASIVE BELTS**
**Richard E. Brink, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware**
**Application March 17, 1950, Serial No. 150,306**
**7 Claims. (Cl. 51—135)**



7. As a new article of manufacture, a device for rehabilitating a coated abrasive belt which has become dulled from use in an abrasive-belt sanding machine, said device comprising a roller having unyielding protuberances fixedly mounted upon its periphery, each of said protuberances having a width of from $\frac{1}{32}$ of an inch to one-half inch, said protuberances occupying not more than 15% of the area of the periphery of said roller, and being distributed about the circumference of said roller in such arrangement that a direct line about the circumference of said roller through any point on the width thereof will pass through at least one protuberance.



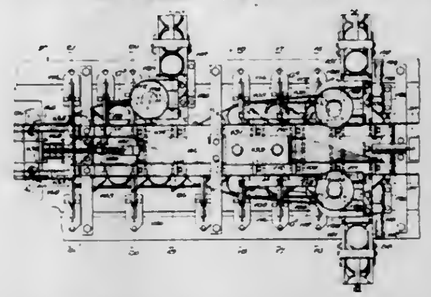
**2,646,655**
**FEEDING OF ABRASIVES TO GLASS SURFACING TOOLS**
**Edmond Laverdisse, Auvelais, Belgium, assignor to Les Glaceries de la Sambre, Societe Anonyme, Auvelais, Belgium, a Belgian company**
**Application May 14, 1952, Serial No. 287,684**
**In Belgium May 19, 1951**
**10 Claims. (Cl. 51—263)**



2. Apparatus for finishing at least the lower face of a glass sheet, comprising a plurality of revolving tools adapted to work on the lower face of a glass sheet, a beam carrying said tools in operative position, containers for abrasive liquid, pipes extending from said containers and terminating at locations in proximity to said tools for conveying the abrasive liquid from said containers to each of said tools, atomizing nozzles on the terminating ends of said pipes and directed toward the lower face of a glass sheet being finished, and fluid pressure means for projecting the abrasive liquid by atomisation through said nozzles onto the lower face of the glass sheet.

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**2,646,656**
**CARTON FILLING MACHINE**
**Eugene A. Wahl, Garden City, N. Y., and Wilhelm Buehl, Union, N. J., assignors to P. Ballantine & Sons, Newark, N. J., a corporation of New Jersey**
**Application August 10, 1950, Serial No. 178,646**
**23 Claims. (Cl. 53—22)**



1. A machine for filling cartons of the open-ended type with containers, said machine comprising means for advancing the cartons along an endless path, a plurality of fixed rails constituting container guide means extending along the sides of said path, means for feeding containers to said guide means, and means for ad-

vancing the containers along said guide means individually in alinement with the open ends of said cartons as the latter are advanced, said rails being formed for operation in response to advance of the cartons and the containers to urge the containers first cornerwise into the cartons through their open ends and finally into the cartons to positions parallel to the ends of the latter.

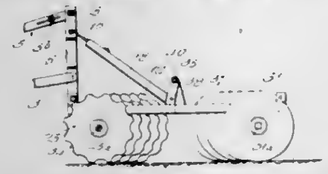
14. In a machine of the character described, a plurality of pocket elements each open at its sides and top and closed at its front and rear and bottom and movable along an endless path including a horizontal course, means for feeding to said pocket elements as they advance along said path open-ended cartons with the open ends of the cartons disposed adjacent to the open sides of said pocket elements, container guide means extending along the sides of the horizontal course of said path, means for feeding containers to said guide means, and arms projecting from the sides of the rear walls of said pocket elements to engage containers fed to said guide means and to advance them along said guide means individually in alinement with the open ends of the cartons contained in said pocket elements, said guide means including rails inclined to urge the containers into the cartons through the open ends of the latter responsive to advance of the pocket elements and the containers.

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**2,646,657**

## MULTIPLE LIFT TYPE DISK HARROW

**Jackson Perry Robertson, Columbus, Miss.**
**Application June 29, 1948, Serial No. 35,805**
**4 Claims. (Cl. 55—30)**



1. A combination multiple and single section lift type disc harrow comprising a pair of substantially coplanar frame members, oppositely facing harrow disc units supported in depending relation beneath each of said frame members, means on the leading edge of one of said frame members connectible with a tractor, said last mentioned frame member having a linearly extending trailing edge, hinge members on said trailing edge of said last mentioned frame member, the other of said frame members having a leading edge coextensive with the trailing edge of the aforementioned frame member and establishing a linear abutment when said frame members are disposed in coplanar relation, hinge members on the leading edge of said last mentioned frame member aligned with the hinge members on said first mentioned frame member, means pivotally interconnecting said hinge members whereby said second mentioned frame member may be moved vertically through an orbit confined within the limits of the width of the front frame member in the direction of said first mentioned frame member to a position whereby the harrow disc units supported thereby over the harrow disc units supported by said first mentioned frame member concentrate the mass thereof through the harrow units carried by said first mentioned frame member, said coextensive edges of said frame members restricting said second mentioned frame member against downwardly hinged movement with respect to said first mentioned frame member.

**2,646,658**

## LAWN MOWER CONSTRUCTION

**George W. Dunham, Westport, Conn., assignor to Savage Arms Corporation, Utica, N. Y., a corporation of Delaware**
**Application September 22, 1949, Serial No. 117,084**
**3 Claims. (Cl. 56—249)**



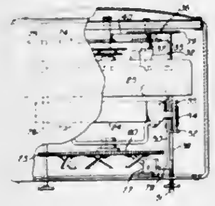
1. In a lawn mower, a frame comprising spaced side members, an under-blade rigidly secured in fixed position to and between rear end portions of said side members, said side members carrying axially aligned bearings adjacent their forward ends, a second pair of members respectively connected at one end to said first-mentioned side members for pivotal movement about the axis of said bearings, a cup-shaped bearing carried at the free end of each of said second pair of members, a shaft mounted in said last-named bearings, spaced reel knife supporting members fixed to said shaft intermediate its ends, a compression spring engaged between one of said supporting members and the adjacent bearing to normally hold the latter in place, the other end of said shaft extending through openings formed in the adjacent bearing and side members, and having a driving member removably secured thereto outwardly of the side members, means on the shaft normally holding the last-mentioned bearing in place, said means being releasably connected to the shaft to permit the shaft to be slid axially through said several openings to allow the other end of the shaft to be seated in its bearing, and interengaging means carried by said first and second pairs of side members for holding the latter in adjusted position relative to each other.

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**2,646,659**

## AUTOMATIC ALARM RESET MECHANISM

**Bruce O. Bower, Lorain, Ohio**
**Application October 17, 1951, Serial No. 251,720**
**11 Claims. (Cl. 58—21.15)**



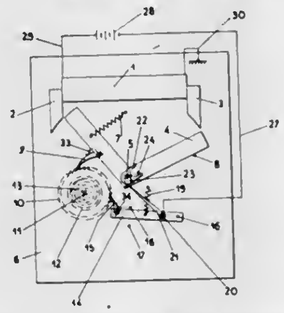
9. Mechanism for a clapper member of an alarm device of a clock, said mechanism comprising first means to make contact engagement with said clapper member to restrain it from ringing movement, second means to make interlocking contact engagement with said clapper to restrain it from ringing movement, and means responsive to the contact engagement of said first means with said clapper member to release said second means from making interlocking contact engagement with said clapper member.



**2,646,660**

## SELF-WINDING CLOCK

**Otto Schild, La Chaux de Fonds, Switzerland**
**Application July 30, 1946, Serial No. 687,202**
**In Switzerland January 11, 1946**
**7 Claims. (Cl. 58—41)**



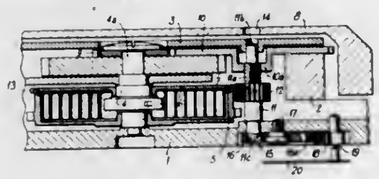
1. A device for electrically performing winding operations of the spring of a clockwork mechanism having a barrel for the spring, a frame, an electromagnet, a source of electrical energy including an energization circuit for said electromagnet, and an armature adapted to oscillate between the poles of said electromagnet; comprising a first movable contact member in said energization circuit and carried by said armature, a ratchet wheel connected to said barrel of said spring, a pawl carried by said armature and adapted to actuate said ratchet wheel so as to wind up said spring, an arm arranged for pivotal movement on said frame, a stop pawl for said ratchet wheel and supported by said arm, and a second movable contact member in said energization circuit and carried by said arm and adapted to coact with said first movable contact member to thereby control the passage of electric current to said electromagnet.

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**2,646,661**

## SELF-WINDING TIMEPIECE

**Otto Von Aesch, Fontainemelon, Switzerland, assignor to Fabrique d'Horlogerie de Fontainemelon S. A., Fontainemelon, Canton of Neuchatel, Switzerland, a firm of Switzerland**
**Application June 21, 1952, Serial No. 294,867**
**In Switzerland August 29, 1951**
**7 Claims. (Cl. 58—82)**



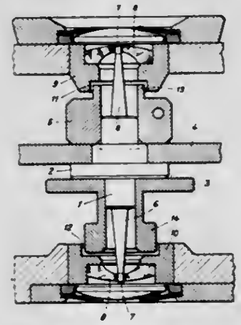
1. In a time-piece, the combination of an oscillatory winding up mass, provided with an eccentric opening, a barrel, a barrel spindle, a spring contained in said barrel and connected at its ends with the barrel and with the barrel spring respectively, a spindle parallel with the barrel spindle at a distance therefrom equal to the eccentricity of the opening in the oscillatory mass, a transmission through which the oscillatory mass controls the barrel spindle, said spindle including a threaded section, a nut engaging said threaded section, means preventing the axial movement of said nut, a pinion rigid with the second spindle, means whereby the barrel and the barrel spindle control respectively the rotation of one of the two following parts, the pinion and the nut, to constrain the second spindle to assume a relative axial movement with reference to the nut when the barrel and barrel spindle assume a relative rotary movement with reference to each other, said second spindle being adapted to engage the opening on the oscillatory mass whenever the spring is completely wound and consequently the barrel spindle has come to the end of its relative angular movement with reference to the barrel.

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**2,646,662**

## FLEXIBLE BALANCE STAFF

**Ernest Morf, La Chaux-de-Fonds, Switzerland**
**Application March 18, 1949, Serial No. 82,140**
**In Switzerland December 2, 1948**
**3 Claims. (Cl. 58—140)**



1. Balance staff mounting for timepieces comprising in combination, a staff consisting of three sections approximately equal in length, namely a rigid middle section and two conical outer sections whose apex angle is small enough to render them sufficiently flexible to bend under the impact of radially directed shocks, short rigid pivots at the extreme ends of said outer sections, perforated radial bearings surrounding said pivots, yiedably supported abutments above and below said pivots, a balance wheel seated on the middle part and flanged cylindrical bodies seated on the outer parts of said middle staff section, and means coaxial with said bodies arranged for limiting radial strokes of said staff.

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**2,646,663**

## SEMIOPEN CIRCUIT GAS-TURBINE ENGINE

**Marcel H. L. Sédille, Paris, France, assignor to Societe Rateau (Societe Anonyme), Paris, France, a company of France, and Rene Anxionnaz, Paris, France**
**Application June 26, 1950, Serial No. 170,279**
**In France August 31, 1949**
**3 Claims. (Cl. 60—39.17)**

1. In a power plant of the type described, the combination comprising a high-pressure compressor, a high-pressure gas turbine mechanically coupled to said high-pressure compressor, piping means between the discharge end of said high-pressure compressor and the intake end of said high-pressure gas turbine, heating means in said piping means, an auxiliary compressor mechanically independent from said high-pressure compressor and discharging into same, a line between the exhaust end of said high-pressure gas turbine and the suction side of said auxiliary com-

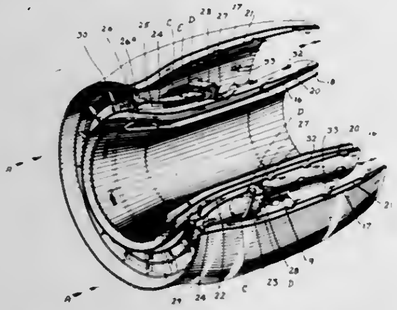
pressor, a low-pressure compressor discharging at a point of said line, a low-pressure gas turbine mechanically coupled to said low-pressure com-



pressor and auxiliary compressor, and tapping means at a point of said line for feeding said low-pressure gas turbine.

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**2,646,664**
**ANNULAR FUEL VAPORIZER FOR GAS TURBINE ENGINES**
**Ronald Guerin Meschino, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Ontario, Canada, a corporation**
**Application February 18, 1950, Serial No. 145,060**
**In Great Britain February 24, 1949**
**10 Claims. (Cl. 60—39.65)**

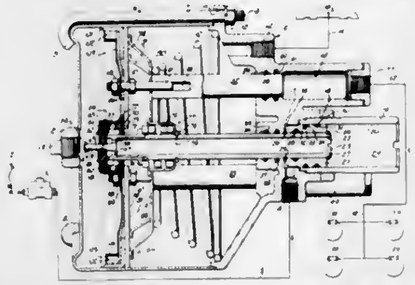


1. A vapourizing system for a gas turbine engine embodying a combustion chamber through which a stream of air is caused to flow and a liner having open ends to receive part of the air and disposed substantially coaxially within the combustion chamber, comprising, a wall spaced from a wall of the liner and defining with the said liner wall an annular vapourizing space extending downstream substantially from the upstream end of the liner, an inlet in the said space for directing a portion of the air entering the liner into the upstream end of the said space, means for introducing fuel into the said space for conversion to fuel vapour, and a flow reversing surface extending into the flow path of the fuel vapour emerging from the downstream end of the said space into the liner whereby the fuel vapour is directed upstream.

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**2,646,665**
**FLUID PRESSURE INTENSIFYING MEANS**
**Edward A. Rockwell, Shaker Heights, Ohio**
**Application January 25, 1947, Serial No. 724,412**
**25 Claims. (Cl. 60—54.5)**

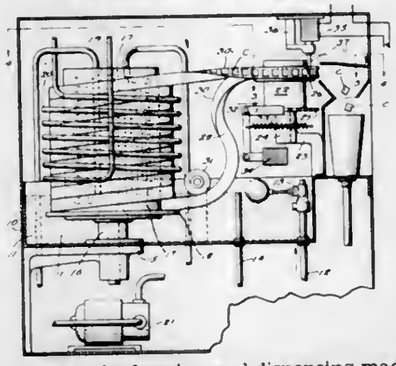
4. A power unit, comprising a movable wall, a cylinder in which the wall operates, a plurality of power plungers located in balanced relation to one another connected to said wall, a plurality of power plunger chambers, a connection on the power unit adapted to be connected to a source of pressure differing from the atmospheric pressure, valve means, including an air valve and a valve for controlling the access of the said pressure to the movable wall, and a control piston for



moving said valves located coaxially with regard to the movable wall and concentrically with the location of the power plungers around said axis.

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**2,646,666**
**ICE CUBE MACHINE**
**Matthew J. Vlasic, Youngstown, Ohio**
**Application August 20, 1951, Serial No. 242,673**
**6 Claims. (Cl. 62—106)**



1. An ice cube forming and dispensing machine comprising an endless belt-like tray having cavities therein, a cylindrical body member and a drum rotatably positioned on their vertical axes in horizontally spaced relation to one another, refrigeration means about said cylindrical body member, said endless belt-like tray positioned on said cylindrical body member in a spiral pattern and looped about said drum, a tank positioned about the lower portion of said cylindrical body member and means for moving said belt-like tray about said drum and cylindrical body member, said belt-like tray being turned one-quarter turn on said drum with respect to its position on said body member, and means for ejecting ice cubes from said belt-like tray on said drum.

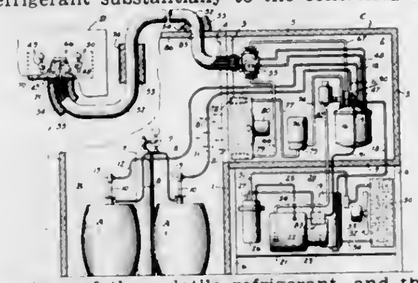
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**2,646,667**
**METHOD OF AND APPARATUS FOR STORING, COOLING, AND DISPENSING BEVERAGES**
**Wallace R. Kromer, Cleveland Heights, Ohio**
**Application October 15, 1949, Serial No. 121,606**
**18 Claims. (Cl. 62—116)**

1. The method of storing and cooling beverage which comprises maintaining a body of beverage under pressure, withdrawing beverage from the



body, as required, and passing the withdrawn beverage over a path immersed in a body of volatile liquid refrigerant maintained substantially within a predetermined pressure range and substantially within controlled temperature limits whereby the withdrawn beverage is quickly chilled by latent heat direct absorption by the refrigerant substantially to the controlled tem-



perature of the volatile refrigerant, and thereafter conducting the chilled beverage away from the volatile refrigerant to a dispensing point over a path immersed in a circulating liquid maintained substantially at the desired dispensing temperature whereby to minimize temperature fluctuations in the beverage in its travel from the chilling path to the dispensing point.

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**2,646,668**
**NOVEL ORNAMENT AND CLIP**
**Alan G. Rinehart, New York, N. Y.**
**Application February 17, 1950, Serial No. 144,774**
**3 Claims. (Cl. 63—2)**

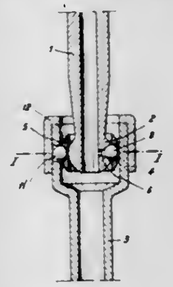


1. An ornament structure of the character described adapted to be detachably secured to an article of apparel and comprising a member forming the ornament and made from resilient material whose front face is generally convex and whose rear face is generally concave in transverse, horizontal section and which latter face is formed with a vertical recess, a generally U-shaped retaining member normally positioned partly within said recess, the upper end portions of said retaining member extending forwardly, and then downwardly and outwardly, the terminals of said portions being embedded within said resilient member adjacent the upper end of said recess, whereby when the opposed vertical edges of said member are compressed togetner the lower portion of the retaining member will move rearwardly from the recess to permit insertion of the article of apparel between the ornament and the retaining member.

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**2,646,669**
**UNIVERSAL JOINT**
**Henri B. R. Barbier, Givry, par Jouet-sur-l'Aubois, France**
**Application December 11, 1950, Serial No. 200,285**
**In France December 13, 1949**
**2 Claims. (Cl. 64—18)**

1. An universal joint for coupling two shafts, comprising in combination a substantially spherical portion at the end of one of said shafts, said spherical portion having two diametrically opposite outwardly diverging conical recesses the axes of which are substantially perpendicular to the axis of said last-mentioned shaft; a ring arranged around said spherical portion, having a substantially spherical outer surface and further having two diametrically opposite cylindrical recesses and two diametrically opposite outwardly diverging conical recesses arranged substantially perpendicularly to said cylindrical recesses; a



cup-shaped member at the end of said other shaft, arranged around said ring and having two diametrically opposite cylindrical recesses the axes of which are substantially perpendicular to the axis of said other shaft; a sleeve fitted around said cup-shaped member; a pair of balls housed in the recesses of said spherical portion and in the cylindrical recesses of said ring; and a further pair of balls housed in the conical recesses of said ring and in the recesses of said cup-shaped member.

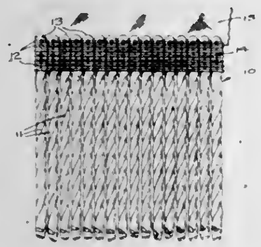
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**2,646,670**
**CLOSURE FOR DRINKING RECEPTACLES**
**John T. Spalding, Collinsville, Ill., and Charles W. Labitska, Overland, Mo.**
**Application January 15, 1951, Serial No. 205,976**
**3 Claims. (Cl. 65—13)**



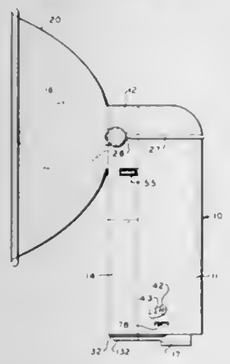
1. A spill-proof adaptor for drinking receptacles comprising a member having a top wall and a circumferential downwardly extended flange having a smooth inner face adapted to frictionally grip a drinking receptacle at the mouth portion thereof so as to maintain the adaptor in assembled relation with respect to said receptacle, said top wall of said adaptor having an opening formed therein, a valve supported by said adaptor which normally closes said opening to prevent passage of liquid from said drinking receptacle through said opening and which may be displaced to permit passage of liquid from said drinking receptacle through said opening, and means comprising a leaf spring having a portion disposed in a recess formed in said top wall of said adaptor and said leaf spring normally urging said valve to its closed position.

**2,646,671**
**BULLION FRINGE**
**Joseph Newman, Philadelphia, Pa.**
**Application January 30, 1951, Serial No. 208,511**
**4 Claims. (Cl. 66—193)**



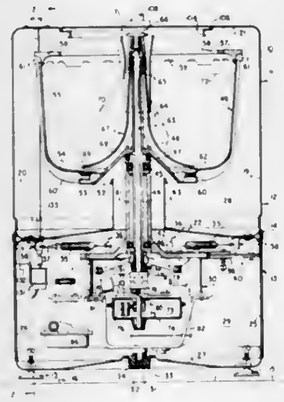
1. In a fringe, the combination of a heading, fringe parts depending therefrom, and an attaching tape linearly secured to the back of said heading along a line about which the tape may be folded flat against the back of the heading, said tape having a width substantially complemental to the width of said heading, whereby in mounted position of the fringe said tape is concealed from frontal view.

**2,646,672**
**PHOTOFLASH GUN**
**Murry N. Fairbank, Belmont, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware**
**Application May 14, 1949, Serial No. 93,307**
**5 Claims. (Cl. 67—31)**



1. In a flash gun device having a casing provided with a socket adapted to receive a flash bulb and a battery carried by the casing for supplying energy to an electrical circuit including a bulb mounted in said socket, in combination, jack means connected in said circuit and carried by said casing for permitting at least one other bulb to be included in the circuit, said jack means comprising a pair of plates carried in said casing and mounted in spaced-apart relation adjacent the bottom of said casing with each plate connected in said circuit, said plates having portions thereon normally in contact with each other but adapted to be spread apart and engaged with connector plug means when inserted therebetween for connecting an additional bulb in said circuit, said casing being provided with an opening aligned with said contacting portions of said jack plates and adapted to removably receive plug means therein for insertion between said contacting portions of said jack plates, and battery-supporting means provided on one of said jack plates in the form of an extension which provides a seat for said battery and a contact for one pole thereof.

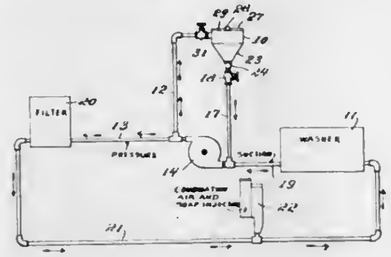
**2,646,673**
**CLOTHES-WASHING MACHINE**
**Walter P. McCarty, Oak Park, Ill., assignor to General Electric Company, a corporation of New York**
**Application October 19, 1949, Serial No. 122,321**
**5 Claims. (Cl. 68—12)**



4. In a clothes washing machine including a tub adapted to contain wash water and clothes to be washed, a water supply system communicating with said tub, and valve mechanism having open and closed positions and arranged in said water supply system; the combination comprising a program selector switch of the rotary type provided with an "off" position and a "fill" position and a "cycle" position, said "fill" position being arranged between said "off" position and said "cycle" position, a shaft mounted for rotation and connected at one end to said selector switch so that selective rotation of said shaft selectively rotates said selector switch into any one of its positions, a single manually operable control knob connected to the other end of said shaft for imparting selective rotation thereto, means responsive to rotation of said selector switch into its "fill" position for operating said valve mechanism into its open position and responsive to rotation of said selector switch out of its "fill" position for operating said valve mechanism into its closed position, a timer operative to rotate said selector switch through its "cycle" position back into its "off" position and to rotate said knob with said selector switch through said shaft, means responsive to rotation of said selector switch into its "cycle" position for initiating operation of said timer and responsive to rotation of said selector switch back into its "off" position for arresting operation of said timer, means responsive to rotation of said selector switch through its "cycle" position back into its "off" position for selectively operating said valve mechanism and for selectively carrying out washing and rinsing and water extracting operations upon the clothes in said tub in a predetermined cycle, and means including said knob for indicating the position of said selector switch.



**2,646,674**
**FILTER-AID DISPENSER**
**Arley A. Spell, Gainesville, Fla.**
**Application May 8, 1951, Serial No. 225,233**
**4 Claims. (Cl. 68—18)**



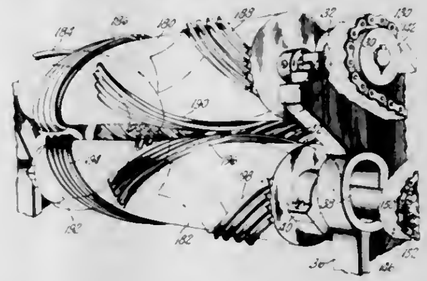
1. A filter-aid dispenser comprising a tank having a vertically disposed cylindrical upper section with a conically shaped lower section and having a nipple extended from the lower end of the said lower section, a vertically positioned transversely disposed baffle extended across the cylindrical upper section of the tank, a horizontally disposed screen positioned in the lower section of the tank, an inlet connection having a float control valve therein and having a depending discharge connection extended downwardly therefrom positioned in the upper end of the tank, an outlet connection extended from the nipple on the lower end of the tank, and a door on the upper end of the tank positioned on the side of the baffle opposite to that from which the inlet connection extends.

**2,646,675**
**WRINGER SPACER**
**Henry Jerome, Walsenburg, Colo., assignor by decree of distribution to Helen Jerome**
**Application April 5, 1950, Serial No. 154,046**
**1 Claim. (Cl. 68—244)**



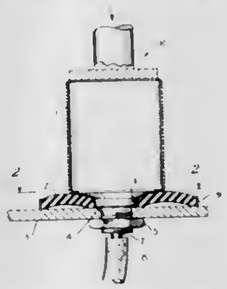
As a new article of manufacture, a spacer member for insertion between a pair of rollers of a clothes wringer, comprising a wedge-shaped body member which is substantially triangular in cross section, the front end of said body member being pointed and the rear end thereof being wide, there being a longitudinally extending arcuate recess arranged in each side of said body member for receiving therein portions of said rollers, said recesses being of unequal contour providing an enlarged longitudinal edge and a foreshortened longitudinal edge and a handle projecting from the wide rear end of said body member and secured thereto adjacent to the foreshortened longitudinal edge.

**2,646,676**
**SELECTIVE STAKING MACHINE**
**Charles R. Campbell, Jr., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application March 20, 1951, Serial No. 216,636**
**8 Claims. (Cl. 69—34)**



1. A selective staking machine comprising a pair of feed rolls, a pair of work rolls cooperatively rotatable to operate on opposite sides of a workpiece progressively as it is received from said feed rolls, each of the work rolls having three or more blades grouped throughout their length, peripherally spaced, and extending lengthwise thereof, the work-engaging edges of the blade groups on one roll respectively being intermeshed and disposed centrally of adjacent work-engaging edges of the blades on the other roll, the spaces between said blade groups being greater than the spaces between individual blades, and means for driving said work rolls at a greater peripheral speed than the feed rolls to tension the stock between said pairs of rolls by forces cumulative between the working blades.

**2,646,677**
**MEANS FOR SEALING CONTAINERS FOR PRESSURE TESTING**
**Le Roy M. Kubaugh, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**
**Application February 4, 1948, Serial No. 6,175**
**8 Claims. (Cl. 73—40)**



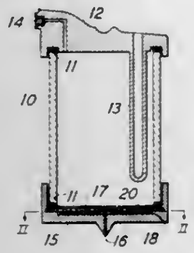
1. In combination, a support for testing open-ended containers, a sealing paid of rubber-like resilience on said support, and pressure means for urging the open end of said container into sealing engagement with the pad, said pad having a concave under surface spaced in part from said support when in normal unstressed condition, whereby a state of compressive stress is engendered in said pad when urged downwardly toward said support by said pressure means acting through said container.

2,646,678

## DRILLING FLUID FILTER LOSS TESTER

Marshall B. Standing and Joseph F. Chittum, Whittier, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application November 2, 1948, Serial No. 58,008
1 Claim. (Cl. 73—53)



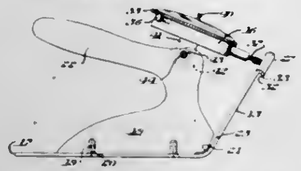

A bottom closure for the fluid receptacle of a drilling fluid filter loss tester of the closed cylindrical type comprising means forming a substantially flat bottom for said fluid receptacle, there being a short constricted fluid filtrate outlet passage for said bottom means, the upper face of said bottom means being provided with narrow intersecting grooves and adapted to receive a filter element, the ratio of the ungrooved area of said bottom means to that which is grooved being about 99:5, the combined volume of said grooves and outlet passage not exceeding about 0.08 cubic centimeters, whereby a minimum of fluid filtrate will be contained within said grooves and passage below said filter element.

2,646,679

## DEVICE FOR BEND TESTING SHEETS

Charles B. Baker, Birmingham, Mich., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application July 20, 1951, Serial No. 237,775
11 Claims. (Cl. 73—100)



1. A tester for metal sheets or the like, comprising in combination, a flat broad base, a flat narrow tongue affixed to said base at an angle thereto, said tongue being subject to flexion, a clasp connected to said tongue adjacent the end thereof away from said base, a rigid handle affixed solely to said base, and means respectively engaging said tongue and said base to indicate any change in the angle therebetween.

2,646,680

## DEVICE FOR INDICATING CONDITIONS IN WELL BORES

Bernard R. Steele and William E. Nolan, Houston, Tex.

Application December 19, 1947, Serial No. 792,822
9 Claims. (Cl. 73—152)

2. A detector assembly comprising in combination a housing for use within a bore hole, said housing comprising spaced inner and outer shells having an annular chamber between them, the inner of said shells being open at both ends and providing a flow passage therethrough and being formed of a material flexible under pressure, means for sealing said shells to each other at the opposite ends of said chamber, means on the opposite ends of one of said shells for connecting the housing with adjacent sections of



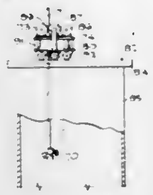
a tubular conduit, said shells being substantially concentric with said tubular conduit, the flow passage through the inner shell being of substantially the same diameter as the tubular conduit to form a continuous passage therewith and an electrically variable detector within said annular chamber responsive to flexing of said inner shell under pressure.

2,646,681

## AUTOMATIC TEMPERATURE INDICATING SYSTEM

Richard G. Walton, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application April 18, 1950, Serial No. 156,589
3 Claims. (Cl. 73—341)



1. A system for continously measuring the temperature of an optimum reaction region shifting within a reaction zone, comprising a carrier positioned within said zone, first electrical temperature-sensing means supported by said carrier, second temperature-sensing means arranged on said carrier on either side of said first temperature-sensing means along at least two straight lines normal to each other which intersect at said first temperature-sensing means, temperature indicating means connected to the output of said first temperature-sensing means, reversible prime-mover means, means responsive to the output of said second temperature-sensing means differentially connecting the output of said second temperature-sensing means to said prime-mover means, for causing the prime-mover means to move the temperature-sensing means toward the optimum reaction region, and actuating linkage means connected between said carrier and said prime-mover means.

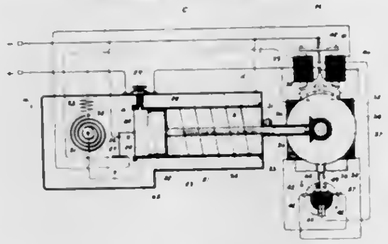


2,646,682

## APPARATUS FOR DETERMINING EXTERNAL PRESSURE AND ELEVATIONS

Alexandre Ovtschinnikoff, Villeparisis, France

Application February 26, 1948, Serial No. 11,161
In France September 2, 1941
3 Claims. (Cl. 73—386)



1. An apparatus for determining external pressures and elevations comprising in combination, a frame; a capsule of variable volume supported by said frame and including a diaphragm, a cylinder, and a piston displaceable in said cylinder, said diaphragm being adapted to be deflected from the neutral position thereof by the external pressure; a reversible electric motor mounted in said frame and having two windings adapted to drive said motor in opposite directions, respectively; a first stationary contact member connected to one of said windings; a second stationary contact member connected to the other of said windings; a movable contact rigidly connected to said diaphragm and adapted to make contact with one of said stationary contact members when said diaphragm is deflected by the external pressure; a gearing actuated by said motor; a screw-threaded rod having one end rigidly connected to said piston and the other end engaging said gearing for translatory motion of said rod, said rod displacing said piston so as to modify the volume of said capsule so as to equalize the internal pressure in said capsule and the external pressure exerted on the same, thereby causing said diaphragm, when in contact with one of said contact members, to return to the neutral position thereof; means for ascertaining the sense and amount of rotation of said motor required for causing said piston to be displaced into pressure equalizing position; and thermostatic means for maintaining a constant temperature of the air in and around said cylinder, said thermostatic means including a feeding circuit, a preheater inserted in said feeding circuit and adapted to heat one end portion of the apparatus, a heating coil surrounding said cylinder, and a bimetallic spiral coil for controlling said preheater and said heating coil.

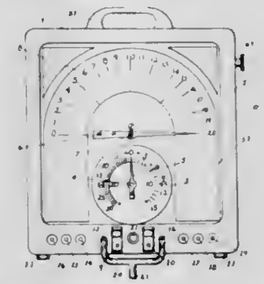
2,646,683

## VACUUM AND PRESSURE INDICATOR

Hugo H. Pickron, Rock Island, Ill.

Application February 17, 1949, Serial No. 76,909
13 Claims. (Cl. 73—389)

1. In a vacuum indicator of the class described, a housing, coarse and precision dials mounted thereon, a stiff Bourdon tube vacuum meter mounted therein having an intake arranged for connection with the intake manifold of an automobile, a sensitive bellows mounted in the housing with intake for connection with the intake manifold in parallel with the intake of the coarse vacuum meter, indicator hands or pointers pivotally mounted upon said meters adjacent said dials respectively, a drawbar having one end united to the movable end of the bellows, and the other end attached to the inner end of a tension spring the outer end of which is carried by a rod threaded in a manually rotatable sleeve mounted in the housing whereby the spring can be tightened or relaxed by manually turning the sleeve and the bellows expanded or contracted,



a lever having its upper end pivoted to the housing and its lower end having one end of a link pivoted thereto the other end of which link is pivoted to one end of a rack lever pivoted upon the precision dial plate, a rack formed on the lower end of said rack lever arranged to mesh with and actuate a pinion mounted on a shaft journaled in the precision dial plate and carrying a pointer, whereby the pointer will be moved proportionately to the movement of the bellows by variations in the degree of vacuum too slight to actuate the coarse meter sufficiently to be clearly observable on its dial.

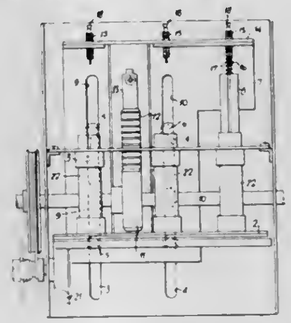


2,646,684

## RADIO-FREQUENCY TUNING DEVICE

Donald Henry Fisher and William Jones, Cambridge, England, assignors to Pye Limited, Cambridge, England, a British company

Application March 6, 1951, Serial No. 214,080
In Great Britain March 7, 1950
4 Claims. (Cl. 74—10.8)

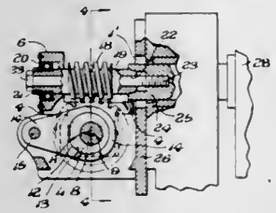


1. An operating mechanism for a tuning device comprising a plurality of variable reactances each including a fixed member and a member movable relative thereto in a straight line to vary the reactance, said mechanism comprising a fixed supporting member for said fixed members and means thereon for holding said fixed members side by side in parallel relation, a movable sup-

porting member for said movable members movable in the direction of movement thereof, and means on said movable supporting member for holding said movable members parallel to each other and in co-operating relation with said fixed members, each of said supporting members having a flat surface with at least two pairs of aligned slots therein extending in the direction of movement of the movable supporting member, said surfaces being parallel to each other with each pair of aligned slots in one surface registerable with a corresponding pair of aligned slots in the other surface, a ball engaging in opposed slots, a resilient rack on the movable supporting member and a rotatable toothed wheel carried on the fixed supporting member and engaging said resilient rack to move the movable supporting member relative to the fixed supporting member and to resiliently urge the movable supporting member towards the fixed supporting member.

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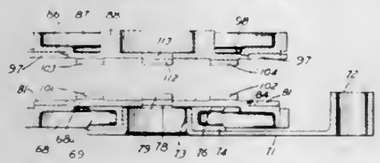
**2,646,685**
**SHAFT VIBRATOR**
**Henry E. Willitts, Smithville, N. J., assignor to H. B. Smith Machine Co., Smithville, N. J., a corporation of New Jersey**
**Application September 14, 1950, Serial No. 184,883**
**9 Claims. (Cl. 74—25)**



1. Apparatus of the character described comprising a support having pairs of end members forming slideways, a carriage reciprocable on said slideways, retainers substantially preventing tilting of said carriage relatively to said support, said carriage having cheeks between the members of said pairs and a pillar transverse to said cheeks, a shaft seated in said cheeks, a rotatable worm wheel sleeved on said shaft and having hubs with circular faces eccentric to the axis of rotation of said wheel, links journalled to said frame and on said hubs, and a shaft journalled in said pillar and having a worm meshing with said worm wheel to impart rotation thereto and effect reciprocation of said carriage by the rotation of said eccentric hubs in said links.

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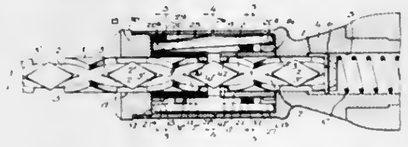
**2,646,686**
**COUPLING FOR OFFSET SHAFTS**
**Joseph D. Kreis, Cleveland, Ohio**
**Original application October 9, 1946, Serial No. 702,154. Divided and this application January 27, 1951, Serial No. 208,212**
**9 Claims. (Cl. 74—63)**



1. A device for coupling two offset substantially parallel shafts comprising two disks, each adapted to be connected to a shaft and having a face perpendicular thereto, the face of each disk being opposed to that of the other disk, two parallel racks on the face of each disk, the racks on each disk being parallel with and opposed to the racks on the other disk, a shaft perpendicular to the racks, and two pinions fast on the shaft, one pinion meshing with each opposed pair of racks.

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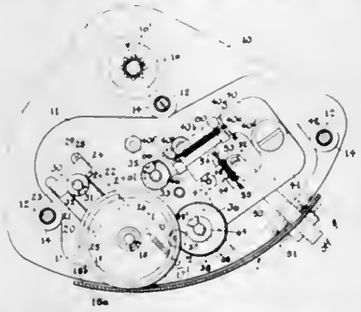
**2,646,687**
**HELICAL SHAFT MACHINE**
**William E. De Wald, Chicago, Ill.**
**Application June 15, 1951, Serial No. 231,867**
**17 Claims. (Cl. 74—127)**



1. A helical shaft device, comprising, a shaft having a right hand helical groove and a left hand helical groove, a pair of sleeves on said shaft, one of said sleeves having an internal projection extending into and slidable in said right hand groove, the other one of said sleeves having an internal projection extending into and slidable in said left hand groove, a pair of laterally spaced, longitudinally extending, clutch bars each having a pair of longitudinally spaced clutch portions, each of said sleeves having a circumferential row of teeth, said rows of teeth being spaced apart longitudinally of the shaft, said clutch portions of each clutch bar being simultaneously engageable with both of said rows of teeth, and also simultaneously disengageable from, both of said rows of teeth, and individually selectively engageable therewith..

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**2,646,688**
**PLURAL SPEED FRICTION DRIVE TRANSMISSION FOR PHONOGRAPH TURNTABLES**
**Frank M. Slough, Lakewood, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio**
**Application October 13, 1948, Serial No. 54,246**
**22 Claims. (Cl. 74—199)**



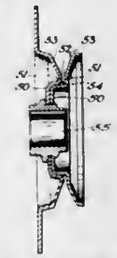
1. A friction drive transmission mechanism for communicating rotary movement from a motor shaft to a phonograph turntable to drive the same at either of two substantially different rotational speeds comprising in combination with a substantially cylindrical pendant flange of the turntable and said shaft, an idler wheel, spring



means adapted to press the periphery of said wheel against the inner surface of the flange, a pair of friction drive pulley elements adapted to be separately and alternately interposed in friction drive relation between said wheel and said shaft, a first of said elements comprising a pair of coaxial upper and lower pulley portions of which the upper portion is of least diameter, and the lower larger pulley portion adapted to be engaged with said shaft while the upper pulley portion is concurrently engaged with said wheel, selective adjustment means adapted to be adjustably moved to disengage either one of said elements from said wheel and from said shaft and to engage the other element therewith.

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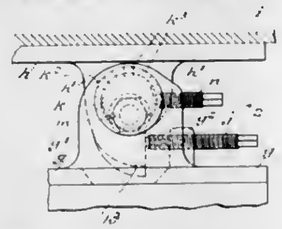
**2,646,689**
**BELT PULLEY**
**George A. Maher, Detroit, Mich., assignor, by mesne assignments, to Gordon I. McNeil, Detroit, Mich.**
**Application March 7, 1946, Serial No. 652,562**
**3 Claims. (Cl. 74—230.8)**



1. A belt pulley comprising two circular sheet metal members having parallel inner portions connected at their outer ends to cylindrical portions extending in the same direction, one of such cylindrical portions nesting within the other, and an integral flange on each member axially spaced from each other, said flanges comprising inner substantially plane annular regions and outer diverging regions whereby a substantially parallel-sided groove is provided which opens outwardly into a V-shaped groove.

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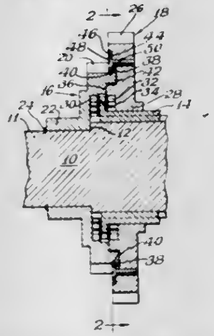
**2,646,690**
**POWER-TRANSMISSION ADJUSTING DEVICE**
**Bernard Crowther, Harden, near Bingley, England, assignor to Flexicon Card Services, Limited, Bradford, England**
**Application January 7, 1948, Serial No. 955**
**In Great Britain January 8, 1947**
**6 Claims. (Cl. 74—242.16)**



1. A power transmission device comprising, in combination, a driving pulley; an input pulley connected by a belt to said driving pulley; a shaft fixedly connected to said input pulley so as to rotate therewith; an output pulley fixedly connected to said shaft so as to rotate with said input pulley; a driven pulley connected by a belt to said output pulley; a frame on which said shaft is rotatably mounted; a projection connected to said frame and formed with a cylindrical bore passing therethrough; a fixedly mounted member located in abutting relation with said projection and also being formed with a bore passing therethrough, said last-mentioned bore being of a substantially smaller diameter than said first-mentioned bore and being located out of the center line of said first-mentioned cylindrical bore; an eccentric having an enlarged portion located in said first-mentioned bore and having another portion thereof extending through said second-mentioned bore; means for rotating said eccentric so that said projection of said frame may be moved longitudinally with respect to said fixedly mounted member, whereby said frame and output pulley are moved toward or away from said driven pulley to adjust the tension on said belt connecting said output pulley and said driven pulley; and means for pivoting said projection about said portion of said eccentric which extends through said bore of said fixedly mounted member so as to adjust the distance between said driving pulley and said input pulley.

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**2,646,691**
**GEAR ASSEMBLY**
**Harry F. Heisler, Hudson, Iowa**
**Application February 24, 1951, Serial No. 212,651**
**3 Claims. (Cl. 74—333)**



1. A gear assembly comprising a pair of gears, a lip on each gear spaced from a portion of the hub of the associate gear and bounding a pair of circumferential grooves, the lip on each gear being positioned in the circumferential groove formed in the other gear, whereby said lips interengage to prevent said gears being moved apart axially, the innermost surface of one of said circumferential grooves having a radius of curvature, and the extended end of the lip within said circumferential groove having a radius of curvature less than said radius of curvature of said circumferential groove, whereby said lip engages said innermost surface of the circumferential groove over substantially a single line of contact.

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**2,646,692**
**GEAR TEETH FOR TOOTHED GEARS**
**Ulrich Günther, Zurich, Switzerland**
**Application September 2, 1952, Serial No. 307,493**
**In Switzerland May 27, 1952**
**4 Claims. (Cl. 74—462)**

1. Gear teeth for a toothed gear having two pitch circles which are in contact with one an-

other, having two generator circles the centres of which are lying on the line connecting the centres of said pitch circles, the generator circles lying eccentrically to one another and being likewise in contact at the point of contact of said pitch circles and rotating in the same direction and at the same peripheral speed at said point of contact as said pitch circles; and having two generator curves each of which being connected with one of said generator circles and extending inwardly from the periphery of the respective generator circle with a curve differing from the radial and rotating together with the periphery



of said respective generator circle so that the two peripheral points of said generator curves meet on their rotation at said common point of contact of all four circles; said generator curves on their movement with the generator circles generating envelope curves in relation to said rotating pitch circles which envelope curves are corresponding faces and flanks of the gear teeth, said faces and flanks appertaining to one another in pairs, while each generator curve generates those faces and flanks which are located on their side, viewed from the common point of contact of all four circles.

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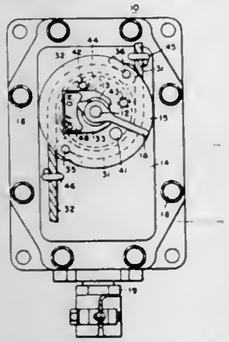
**2,646,693**

## ELECTRIC SWITCH OPERATING DEVICE

**James O. Rexroad, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application October 18, 1950, Serial No. 190,813**

**9 Claims. (Cl. 74—479)**



1. In an operating device for a switch having an actuating member, in combination, a rotatable shaft for operating said member, a handle secured to the shaft for actuating the shaft in either direction, a pulley rotatable about the shaft, actuating means secured to the pulley to engage said handle when the pulley is rotated in one direction only, means for securing pull-cords which extend from the pulley in opposite directions to the pulley to rotate it in said one direction, and spring means for biasing the pulley in the other direction independently of said handle.

**2,646,694**

## LONGITUDINALLY SHIFTED ACTUATOR ROD WITH AUTOMATIC LOCKING ACTION AND RAPID RELEASE

**Henry H. Merriman, Jackson, Mich.**

**Application December 16, 1948, Serial No. 65,626**

**2 Claims. (Cl. 74—503)**



1. A canting plate and slidable rod assembly constituting a releasable lock for the rod with respect to relative axial movement comprising a supporting structure, a rod having a smooth surface portion, means supporting said rod for both axial and lateral displacement with respect to said portion, a canting plate having an opening defined therein to receive the smooth surface portion of said rod with a sliding fit when the axis of the opening substantially coincides with that of said rod portion, a pivot for supporting said plate from said structure for swinging movement along said rod portion to angularly dispose the axis of said opening with respect to the axis of said rod portion to bite said rod portion to restrain the same against relative movement through said opening, said pivot being axially spaced along said rod portion with respect to said opening with the axis of said opening substantially coinciding with that of said rod portion, a spring reacting between said structure and said plate tending to swing said plate about said pivot into a position in which the opening-defining portion of said plate bites into said rod portion, the thrust of said spring against said plate acting to move said rod portion carried therein toward said pivot with said movement solely restrained by the bite between said opening and said portion, said rod having clearance with said structure for lateral movement away from said pivot to rock said plate from its biting position with respect to said rod portion into a position at which the axis of said opening and the axis of said rod portion coincide whereby said rod portion is slidable within said opening.

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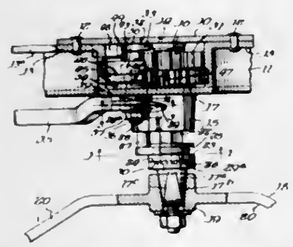
**2,646,695**

## RAILWAY CAR HAND BRAKE

**John P. Templeman, Chicago, Ill., assignor to Superior Hand Brake Co., Chicago, Ill., a corporation of Illinois**

**Application September 16, 1950, Serial No. 185,288**

**8 Claims. (Cl. 74—505)**



1. A railway car brake comprising in combination a frame, a rotatable brake shaft mounted



therein, a brake hand wheel loosely mounted on the said brake shaft having a ratchet connection at one side thereof, a ratchet gear slidably mounted on the said brake shaft having teeth thereon adapted to engage the ratchet connection of the said brake wheel, a fork in engagement with the said ratchet gear, a shaft having a slot therein connected to the said fork, a pawl operating lever, a cam on said pawl operating lever operating in the said slot in the said shaft whereby the said ratchet gear is moved into and out of engagement with the ratchet connection of the brake hand wheel.

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**2,646,696**

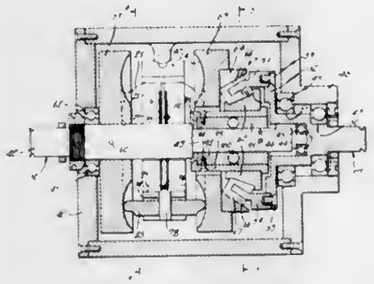
## TRANSMISSION

**André Kepes, Saint-Mande, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France**

**Application December 14, 1948, Serial No. 65,110**

**In France September 2, 1948**

**4 Claims. (Cl. 74—691)**



1. A variable speed transmission having a rotatable shaft, a toroid race affixed thereto, dirigible power transmitting rollers mounted in contact with said race, a toroid race in contact with said rollers, a differential associated with said shaft, a said toroid race being mounted upon a race of said differential for angular motion about said shaft, conical, angularly spaced rollers supporting said differential race, a differential race engaging said rollers, a driving sleeve fixed to said differential and having a bearing mounted upon said shaft for angular and axial motion with respect thereto, a driving sleeve fixed to said shaft, outwardly of said bearing, said bearing and sleeve having opposed faces with opposed cam depressions, balls engaged in said depressions, and power transmitting means engaged with the rollers of said differential.

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**2,646,697**

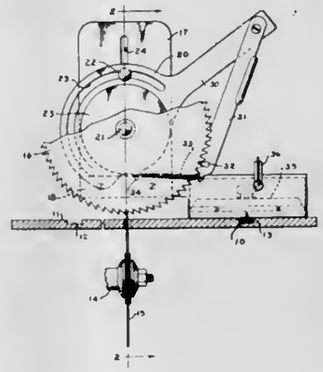
## SAW SHARPENER

**Carleton A. Phillips, Corning, and William B. Sanford, Painted Post, N. Y.**

**Application August 1, 1950, Serial No. 177,017**

**5 Claims. (Cl. 76—37)**

3. The combination with a circular saw chassis assembly including a table with a miter groove therein, an adjustable angle miter slidable along such groove and a rotatable saw blade mandrel, of a grinding disc carried on the mandrel, and a support in fixed relation to the miter adapted to hold a circular saw blade thereon with a tooth thereof in a position to be passively engaged by such disc by movement of the miter along its groove said adjustable miter comprising means whereby the angular position of the saw can be attained with respect to that of the disc so that



any desired beveling of a saw tooth can be effected by such disc.

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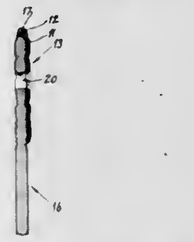
**2,646,698**

## METHOD OF MANUFACTURE OF STERLING SILVER HANDLES WITH GOLD DESIGN HEADINGS

**Max Herman Storch, Belle Harbor, N. Y.**

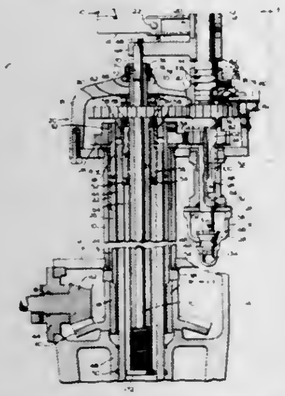
**Application November 7, 1950, Serial No. 194,485**

**1 Claim. (Cl. 76—105)**



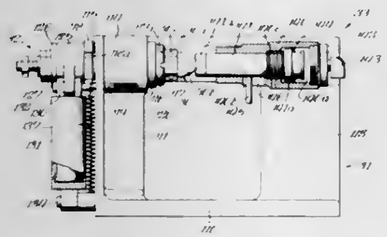
The method of forming a sterling silver flatware handle with a symmetrical gold design heading on the normally visible front face of the handle, which consists in embossing a symmetrical design on said normally visible front face of said handles so as to extend in relief on the rear face of the free end portion of the handle, in applying a pre-formed bi-metallic embossed heading of a design identical with said design on said handle over the normally visible front face and over the symmetrical design embossed on the normally visible front face of said handle, the complementary face of said bi-metallic heading being in surface contact with the embossed design heading on said handle, in making the pre-formed heading with a laterally extending circumscribing flange of a size large enough to cause positive nesting and to embrace said handle heading, in making the said pre-formed heading with an exposed gold outer layer and a silver inner layer, and in securing the silver layer of the heading in permanent intimate union to the normally visible front embossed portion of the sterling silver handle, the silver layer of said bi-metallic embossed heading being thicker than said gold outer layer to impart a degree of rigidity to said gold layer to permit said gold layer to be of minimum thickness.

**2,646,699**
## DRILLING MACHINE
**Frank H. Mueller and John J. Smith, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois**
**Application October 23, 1951, Serial No. 252,704**
**12 Claims. (Cl. 77—37)**



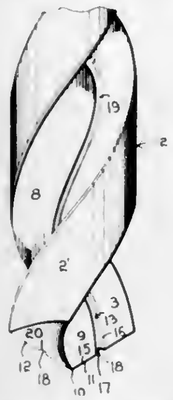
1. In a drilling machine having a projectible boring bar, feed mechanism therefor, an automatic drive for the feed mechanism to effect advance of the bar at a certain rate, shiftable means for rendering the automatic drive operative or inoperative, and a manually-operable drive for the feed mechanism to effect advance of the bar at a different rate when the automatic drive is inoperative, the combination of: rotatable counter means driven with the feed mechanism for measuring axial movement of the boring bar; a ratio-changer in the drive for said counter means; and means operable by the shiftable means for adjusting said ratio-changer to compensate for the different automatic and manual drive rates of advance of the boring bar.

**2,646,700**
## MACHINE TOOL
**Herman Goldberg, Bartlett, Ill., assignor to Snow Manufacturing Company, Bellwood, Ill., a corporation of Illinois**
**Application July 21, 1948, Serial No. 39,990**
**8 Claims. (Cl. 77—64)**



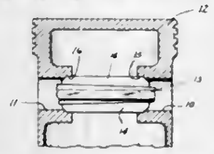
1. The combination in a machine of the class described, of a rotatable tool, compressed air operated means for producing a forward axial stroke of said tool, a holder for a work piece, and separate compressed air operated means operatively connected with said holder for operating said holder in unison with said forward movement of the tool to position the work piece with respect to the path of movement of the tool.

**2,646,701**
## STEPPED EDGE CUTTING TOOL
**Peter A. Letien, Houston, Tex.**
**Application December 27, 1949, Serial No. 135,218**
**1 Claim. (Cl. 77—70)**




A drill comprising spiral cutting blades forming spiral flutes extending longitudinally thereof, a central web connecting the inner edges of said blades, a chisel point at the outer end of said web, cutting lips on the outer ends of said blades, said blades having grooves longitudinally thereof in their leading faces, each of said grooves intersecting one of said cutting lips and having at the point of intersection a straight inner cutting edge parallel thereto, and each of said grooves having side wall surfaces inclined inwardly toward said inner cutting edge to form a dovetail groove whereby during drilling passages are formed between the cutting lips and the inner cutting edges of the grooves to permit circulation of cutting oil to the surface of the material being cut to form a dovetail groove.

**2,646,702**
## REAMER
**James J. Strnad, Bedford, Ohio**
**Application November 12, 1949, Serial No. 128,211**
**10 Claims. (Cl. 77—75.5)**



1. A method of reaming two aligned holes which comprises inserting an expansion reamer into the space between the holes, expanding the reamer and turning it to cut two witness holes, then moving the work relative to the expanded rotating reamer to complete reaming of the first hole and moving the work in the opposite direction relative to the reamer to complete reaming of the second hole.

**2,646,703**
## INSERTING TOOL FOR SNAP TIES
**George Erbe, Jersey City, N. J.**
**Application September 8, 1951, Serial No. 245,758**
**4 Claims. (Cl. 81—3)**

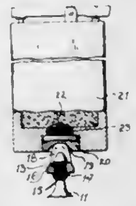
1. A tie rod inserting tool adapted for connection with an enlarged head on a tie rod comprising a sleeve member having an elongated notch extending from the attaching end thereof with a laterally downwardly and forwardly extending notch for receiving a head on the tie rod, whereby to permit threaded movement of the head through the attaching sleeve member, said longitudinally extending notch being adapted to accommodate the tie rod and having a width only



slightly larger than the diameter of the tie rod and an end formation on the sleeve head member, and a retaining sleeve for the tie rod to retain the same within the longitudinal extending slot fitted in the hollow sleeve member and abutting the end formation thereon, said retaining sleeve having inwardly extending opposing spring portions between which the rod may pass and be retained against lateral displacement.

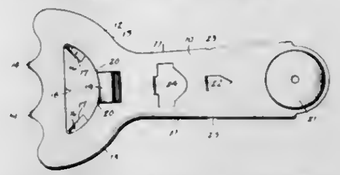


**2,646,704**
## COMBINATION FLUID CONTAINER AND CLOSURE HAVING A SCREW DRIVER PROJECTION
**Samuel Reider, North Arlington, N. J.**
**Application May 10, 1949, Serial No. 92,340**
**2 Claims. (Cl. 81—3.1)**



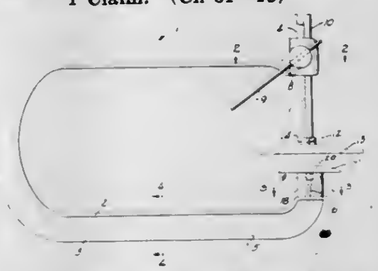
1. In combination with a liquid container for inflammable liquid for a lighter having a liquid containing compartment with a screw-threaded liquid inlet normally closed by a screw-threaded plug, the threads of said inlet and plug engaging one another, said container being of such size and shape as to be readily retained in the hand of a user and having a spout secured on and projecting outwardly from one end thereof and from which spout liquid passes from the container, the outlet end of the spout being screw-threaded, a closure removably secured on said outlet end of the spout, the closure having screw-threads adapted to cooperate with said screw-threads of the spout, and a screw-driver projection on the closure and extending outwardly thereof, said screw-threads of the spout and the closure being opposite to said screw-threads of said lighter inlet and the lighter plug and so arranged that the closure becomes tightened on the spout when said screw-driver projection is used to unloosen the plug from said compartment inlet whereby said container is usable as a screw-driver on the outlet end of the spout, the spout acting as the shank of said screw-driver and the closure as the blade thereof to remove said plug from the lighter compartment inlet.

**2,646,705**
## LEVER TYPE VACUUM CAP LIFTER
**Jobby Belpedio, Bridgeport, Conn.**
**Application April 5, 1949, Serial No. 85,522**
**1 Claim. (Cl. 81—3.46)**



An implement for removing the covers of jars or the like, comprising a member having a longitudinal handle portion and a laterally widened head portion at the forward end of said handle portion provided with a forward cover-top-engaging edge, said head portion having at each side of its longitudinal axis a downwardly extending leg portion and a finger portion extending inwardly from the lower end of said leg portion, each finger portion terminating in a forwardly inclined edge extending away from the longitudinal axis for engagement beneath a part of the rim of a cover, said leg and finger portions being rearwardly of said cover-top-engaging edge, and said head portion having a clearance opening including a forward edge forwardly of said finger portions and a rearward edge overlying said finger portions adjacent its ends and extending rearwardly from said finger portions to clear the rim of a cover pried upwardly by said finger portions.

**2,646,706**
## TOOL FOR STRAIGHTENING SHEET METAL SUCH AS IN VEHICLE BODIES AND THE LIKE
**William J. Palmer, Portland, Oreg.**
**Application May 22, 1950, Serial No. 163,447**
**1 Claim. (Cl. 81—15)**



A metal bending and straightening tool comprising in combination a body member of substantially C formation having two opposing legs, a vertical bearing formed in the terminal end of one of said legs, a vertically disposed hub fixedly secured to the terminal end of the other of said legs, a die removably secured to said hub, said die being of circular and convex formation over its entire top surface, a gear rack slidably mounted in said vertical bearing and operable by a pinion gear rotatably mounted in the terminal end of said first-mentioned leg, a circular disc of greater diameter than said die secured to the bottom end of said gear rack, a concentric concavity formed in said disc in opposing relation to said convex surface of said die, said concavity being of mating formation to the top surface of said die and equal in diameter to the diameter of said die thus leaving a relatively wide

annular flat flange surrounding said concavity, and an annular plate of resilient material attached to the underside of said annular flange covering the entire surface thereof.

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**2,646,707**
**METHOD FOR REPAIRING PUNCTURES IN PNEUMATIC TIRES AND TUBES**
**Chauncey E. Notz, Englewood, Colo., assignor to Notz-Sweney, Inc., Denver, Colo.**
**Application June 9, 1950, Serial No. 167,223**
**4 Claims. (Cl. 81—15.6)**



1. A method of repairing punctures in vehicle tires of the type having an outer casing enclosing an inner tube, comprising: the steps of inflating the inner tube within the casing; and forcing a puncture sealing compound through the puncture in the outer casing against the puncture in the inner tube with sufficient pressure to force the compound between the tube and the casing to form an outer patch on the tube, and through the tube to form an inner patch thereon.

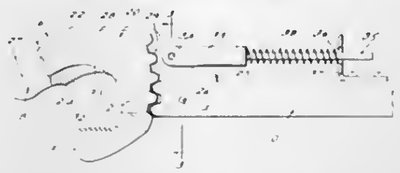
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**2,646,708**
**VISE JAW COMBINATION**
**Chris Nickas, Jr., Farmington, W. Va.**
**Application March 25, 1949, Serial No. 83,453**
**1 Claim. (Cl. 81—39)**



A device of the character described comprising a vise jaw having a centrally disposed recess in the upper end thereof and having a semi-cylindrical recess in the top thereof adjacent each end of the central recess, a vise jaw cap removably mounted at either side of the upper end of the vise jaw and each having a semi-cylindrical recess in the bottom thereof, a revoluble gripping member disposed in said central recess and having a pair of outwardly extending axles adapted to be positioned in the semi-cylindrical recesses in the jaw and in the jaw caps and adjustable means for locking the revoluble gripping member in selected positions with respect to the inner face of the vise jaw, said means including a plurality of spaced semi-spherical openings in the outer periphery of each of the axles, a vertical passage in each of the caps in registry with said openings, a ball in the lower end of each passage, a compression spring atop each ball and a set screw threadably mounted in the upper end of each passage, said revoluble gripping member having a plurality of different gripping faces adapted to be selectively presented at the inner side of the vise jaw.

**2,646,709**
**PIVOTED JAW WRENCH**
**Charles D. Daniels, Mountainair, N. Mex.**
**Application November 30, 1951, Serial No. 259,230**
**3 Claims. (Cl. 81—91)**



1. A wrench comprising an elongate handle, a head including two arcuate plate members in spaced parallel relation and having terminal shanks at one end, said handle having one end between said shanks, a pivot pin passing through said shanks and the interposed handle end, said handle end having longitudinally extending teeth, a pivoted jaw plate of arcuate form and having an end pivoted between the other ends of the first plate members, the second mentioned jaw plate having a long end edge extending between the plate members and across the toothed end of said handle and provided with teeth engaged by the handle teeth, said end edge continuing in a portion lying in spaced relation with the concave portions of the two arcuate plate members and providing a jaw face opposing said concave edges, a bracket carried on the handle, a bar pivotally attached at one end to said shanks and having its other end slidably supported by said bracket, and a spring surrounding the bar and attached at one end thereto and pressing at its other end against said bracket.

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**2,646,710**
**SLIDABLE SIDE JAW WRENCH**
**Archie T. Allen, Hickman, Calif.**
**Application July 29, 1949, Serial No. 107,579**
**2 Claims. (Cl. 81—165)**



1. In a conventional slidable side jaw wrench having a head portion and a handle extended generally right angularly therefrom, said head portion having a transverse opening therethrough, and slidable jaw rotatable actuating means operably connected to the slidable jaw and mounted in the head portion at the opening and accessible for direct manual turning to actuate the slidable jaw, and said handle having an axial bore therethrough in communication with the transverse opening in the head portion, and the handle having a slot extending therethrough radially from the bore, a shaft journalled in the bore and axially fixed and rotatably supported therein, bevel gears directly connecting the shaft and said means and entirely within the head at the transverse opening therethrough, and a cover plate secured to said handle and enclosing the axial bore and radial slot and extending over a part of the transverse opening in the head portion to enclose the bevel gears, and further means for turning said first named means, including a handle extension fixed to said shaft for direct manual turning thereof.



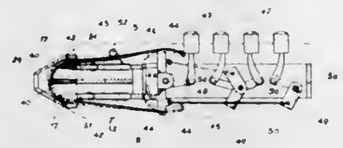
**2,646,711**
**RATCHET WRENCH**
**Sylvan Yavner, Norfolk, Va.**
**Application July 31, 1952, Serial No. 301,898**
**3 Claims. (Cl. 81—179)**



1. A ratchet wrench including a handle, a head at one end of said handle, and a fixed jaw and a slidable jaw on said head, coacting jaw faces on said jaws, said fixed jaw face being upwardly inclined from its rearward to its forward edge with respect to said slidable jaw face, said head having an elongated passage therein opening into the rear of said fixed jaw face, a bar slidably disposed in said passage and resilient means urging said bar outwardly of said passage, said bar having an arcuate forward end smoothly joining said fixed jaw face and serving as a cam surface when a work piece is clamped between the jaws to maintain the bar against movement upon movement of the wrench in one direction and to cause retraction of the bar into the passage upon reverse movement of the wrench.

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**2,646,712**
**HARMONICA**
**Kurt Mast, Trossingen, Wurtemberg, Germany, assignor to Matth. Hohner A.-G., Trossingen, Wurtemberg, Germany, a joint-stock company**
**Application April 30, 1951, Serial No. 223,680**
**In Germany May 6, 1950**
**17 Claims. (Cl. 84—377)**

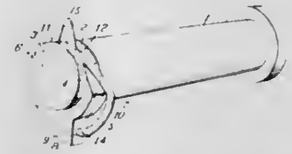


1. A harmonica comprising a casing provided with openings adapted to operate as channels for the wind, movable flexible controlling bands, each band mounted to close and to clear at least one wind channel and to be moved over a curved surface, means connected to each band and adapted to be selectively operated and to move the respective band thereby clearing the respective wind channel, and spring means connected to the casing and to each band and operative counter to said first-mentioned means to return the respective band into the initial closed position relative to the wind channel.

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**2,646,713**
**THREADLESS RETAINER**
**William E. Summerbell, Washington, D. C.**
**Application January 10, 1950, Serial No. 137,751**
**4 Claims. (Cl. 85—8.8)**

1. A threadless retainer assembly, for use on a bolt or the like having a single circumferential circular groove near one end thereof, comprising in combination: a bifurcated plate-like element the arms of which are adapted to engage within said groove in straddling rotatable relation to said bolt, said element having a pair of opposed wear faces; and a spring clip member carried by said plate element and adapted to be sprung or wedged over the end of said bolt with parts thereof entering and engaging with said groove opposite said furcation, and the whole of said member lying within the general plane of said plate element such that the over-all dimension of the assembly, axially of the bolt, is not greater than that of the said plate element, said plate element



being symmetrical on opposite sides axially of said spring clip, whereby said plate element is rotatably retained within said groove in either of two positions to present either of said two wear faces to the opposite end of the bolt, the walls of said groove preventing axial movement of said plate, and said spring clip preventing lateral displacement of the plate from the groove at any radial position with respect to the bolt.

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**2,646,714**
**FASTENER STRIP**
**George A. Tinnerman and James F. Rafferty, Cleveland, Ohio, assignors to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Original application June 10, 1948, Serial No. 32,146. Divided and this application October 2, 1951, Serial No. 249,366**
**2 Claims. (Cl. 85—36)**



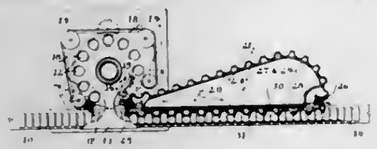
2. A strip of fasteners comprising a length of sheet metal defining a series of plate-like fasteners having openings centrally thereof provided with stud engaging means and extending in side by side relation, each of said fasteners having a generally arched body extending transversely of the strip between the ends of each fastener and a web portion connecting a side of each fastener to the side of the adjacent fastener, there being oppositely directed slots extending from the web portion between the ends of adjacent fasteners whereby the ends of said adjacent fasteners extend free and separate from each other and are adapted to rest on a surface with said arched body of each fastener projecting above said surface.

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**2,646,715**
**APPARATUS FOR VISUAL INSPECTION OF BOTTLED GOODS**
**George Philip Stout, Baltimore, Arthur C. Powell, Ruxton, and Francis J. Taylor, Jr., Hanover, Md.**
**Application July 19, 1949, Serial No. 105,614**
**5 Claims. (Cl. 88—14)**

1. Apparatus for use in inspecting liquid packaged in light permeable containers comprising, in combination: means to cause motion of revolution of the liquid relatively to the container; means to move the containers past an inspecting station; shield members for the respective containers; means to move the shield

members with the containers past said station: said shield members each formed upon an arc of a cylindrical surface, and partially surrounding the respective containers while moving there-



with, each said shield member formed with a slit; and a source of light behind said slits to illuminate with a narrow beam the moving liquid in the containers as they pass said station.

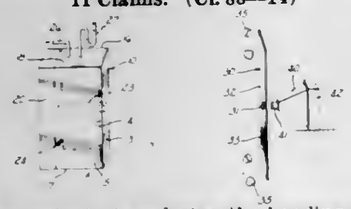
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**2,646,716**

**METHOD AND APPARATUS FOR ANALYZING SHAPE AND BENDING STRESSES IN STRUCTURAL ELEMENTS**

**Oliver Gerald Bowen, Los Angeles, Calif., assignor to Presan Corporation, Los Angeles, Calif., a corporation of California**

**Application February 13, 1950, Serial No. 144,014**
**11 Claims. (Cl. 88—14)**



1. A method of analyzing the bending stresses in a substantially flat element of a structure, said substantially flat element being supported at predetermined points and being subject to bending due to the application of transverse loading, which method includes the steps of: building a model of said structure, said model having a correspondingly-shaped, correspondingly supported substantially flat element having an exposed substantially flat surface; making said exposed substantially flat surface reflective; transmitting to said reflective surface to be reflected therefrom an optical pattern of predetermined design, the reflected optical pattern deviating from the transmitted optical pattern upon deformation of said reflective surface; applying a transverse load to said substantially flat element of said model perpendicular to and to deform said reflective surface in degree and location determined by its supports and by such transverse load; and measuring the deviations of the resulting reflected optical patterns as a measure of the deformation of and the resulting bending stresses in said substantially flat element of said structure when subjected to a corresponding transverse load.

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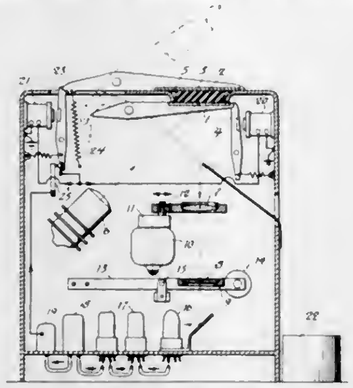
**2,646,717**

**DEVICE FOR THE IDENTIFICATION OF DOCUMENTS OR PRINTED MATTER**

**Paul J. Selgin, Washington, D. C.**

**Application September 20, 1950, Serial No. 185,804**
**5 Claims. (Cl. 88—14)**

3. Apparatus for the identification of documents or sheets of printed matter, comprising in combination: means for projecting an optical image of the document under test; means for supporting in the plane of said image a comparison standard consisting of a photographic negative of said document, means for imparting continuous periodic motion to one of said means in one direction at right angle to the axis of said image, means for imparting continuous periodic motion to one of said means in a direction at right angle to said one direction, and at a higher frequency than said first periodic movement, thereby to produce full register of said image with said negative periodically at a definite fre-



quency, whereby the light transmitted through said negative is caused to fluctuate at said definite frequency due to the periodic recurrence of the condition of full register of said image with said negative; means for converting said light fluctuations into an alternating electric current of the same definite frequency; and a signal device actuated by said alternating current to provide one signal condition for a true document and a different signal condition for a false document.

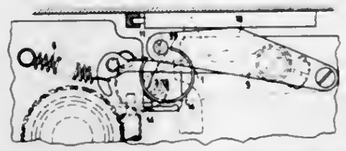
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**2,646,718**

**MOTION PICTURE CAMERA**

**Jules Favre, Neuchatel, Switzerland, assignor to Paillard S. A., Sainte-Croix, Switzerland, a company of Switzerland**

**Application May 15, 1951, Serial No. 226,414**
**In Switzerland June 26, 1950**
**6 Claims. (Cl. 88—18.4)**



1. In a motion picture camera including frame parts, a meter for measuring the length of film used, a film gate, a film pressure plate pivotally supported adjacent the said gate, a spring for tensioning the gate, a control lever pivoted to a frame part and having a portion engageable with the plate for normally maintaining it closed relative to the gate, an annular spring having one end anchored in the lever and the other end anchored in a frame part for tensioning the lever, an operator's knob on the lever, a pin on the lever extending oppositely to the said knob, an eccentrically mounted claw arm spring tensioned at its claw end and held against an abutment on a frame part when the camera is normally ready for use, said pin disposed in a position to engage the claw arm but normally free thereof when the lever carrying the pin maintains the plate closed; and means for setting the said meter to zero,



said means comprising a spring urged clutch lever pivoted for limited movement on a frame part in a plane at right angles to said pin and having a nose to be engaged by said pin, an offset journal position on the control lever, a driven shaft having one end mounted in the said offset journal portion and provided at its other end with a scale disc, a pivoted bearing for the end of the shaft near the scale disc meter gearing, a worm on the shaft for normally engaging the meter gearing, said control lever when manually moved by said knob causing the same to move away from the plate and also causing the pin to release the claw arm and move the clutch lever to withdraw said worm out of mesh with the meter gearing.

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**2,646,719**

**CLAMPING DEVICE**

**John Eric Spriggs, London, England, assignor to Pictorial Machinery Limited, London, England, a British company**

**Application October 31, 1950, Serial No. 193,081**
**In Great Britain May 9, 1950**
**6 Claims. (Cl. 88—24)**



1. A catch device for clamping together two parts to form an article comprising a catch arm mounted for swivelling and sliding movement on a pivot adapted to be fixed to the one part of the article, an attachment member adapted to be fixed on the other part of the article for engagement by a catch on the arm, a cam follower carried by the catch arm, a slide, a cam track on the slide, and means for holding the cam follower in riding contact with the cam track on the slide, the cam track being shaped with an abutment and an inclined cam track to produce on movement of the slide automatically in sequence respectively a swivelling movement of the catch arm to an engaging position with the attachment member and a sliding movement of the catch arm to close together and clamp the two parts.

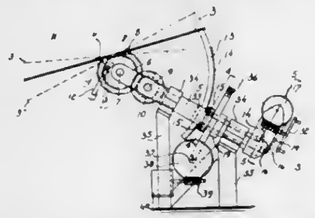
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**2,646,720**

**SUNBEAM RECEIVING AND REFLECTING DEVICE**

**Alejandro Poliansky, Buenos Aires, Argentina**

**Application March 31, 1951, Serial No. 218,586**
**In Argentina March 12, 1951**
**6 Claims. (Cl. 88—25)**



1. A sunbeam-receiving and deflecting device for projecting the sunbeams in a direction (N—S) parallel the axis of the earth for the utilization of the solar energy for domestic, industrial or scientific purposes, comprising a plane body provided with a reflecting surface, a rotary support member for fixedly mounting thereon said plane reflector body and for adjusting the position of the latter in one direction, a rotary main shaft arranged in a direction (N—S) parallel to the axis of the earth for adjusting the position of said reflector body and provided with bearing means for mounting said rotary support member, a tube member secured to a rotary pinion member for controlling the adjustment of said reflector body effected by said support member, gearing means provided between said pinion member and said support member for operatively connecting the latter with said control tube member a frame for rotatively supporting said shaft, a first mechanical driving mechanism for rotating said shaft, a second driving mechanism for rotating said reflector body around the axis of its rotary support member, this second driving mechanism including a cranked handle and transmission means arranged between the latter and said reflector body.

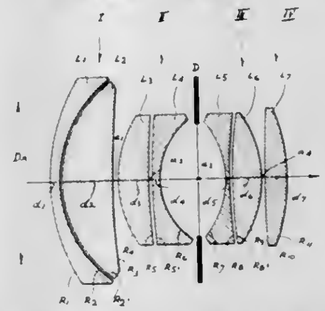
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**2,646,721**

**GAUSS TYPE PHOTOGRAPHIC OBJECTIVE HAVING TWO LENS SYSTEMS ON OPPOSITE SIDES OF A DIAPHRAGM**

**Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany**

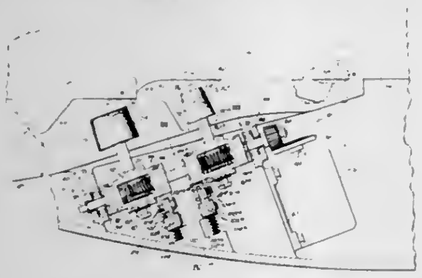
**Application September 12, 1950, Serial No. 184,456**
**In Switzerland January 16, 1950**
**3 Claims. (Cl. 88—57)**



1. Photographic objective of high light transmitting capacity and anastigmatic flattening of the image field, of the modified Gauss-type, said objective comprising in combination a first and second lens system, axially air spaced apart and arranged axially on opposite sides of an intermediately located diaphragm; said first lens system being arranged on the side of the major conjugate and consisting of a first meniscus-shaped outer lens pair and a second meniscus-shaped lens pair located between said first lens pair and the diaphragm; said first lens pair consisting of two menisci of opposite power, the first element, in the direction of light, of said first lens pair, being a strongly curved, diverging meniscus shaped lens, said second lens pair consisting likewise of two menisci of opposite power, and all radii of curvature of the menisci forming the first and second lens pair being concave relative to the diaphragm succeeding them; said second system of lenses being located on the side of the minor conjugate, consisting of a doublet member adjacent to the diaphragm and a single lens member following said doublet member and being

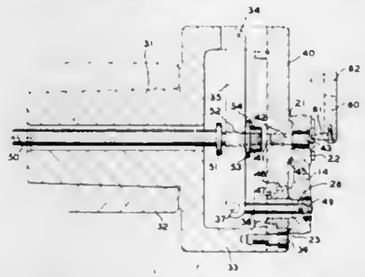
an outer member of the total objective, said second system of lenses being a half objective of the conventional design of the Gauss-type; said first lens pair of the first lens system including a pair of vicinal surfaces which is convex relative to the major conjugate; the negative lens adjacent to the diaphragm, of the second lens pair in said first system of lenses, consisting of a glass of low refractive index, while the positive lens which is the last lens in the meaning of the photographic picture and terminates the total objective on the side of the minor conjugate, consists of a glass of high refraction index, the difference between the mean refraction indices of this negative lens and this positive lens, respectively, for light of the same color, being distinctly greater than 0.150; in at least one of said first and second system of lenses, the sum of radii of their outer surfaces being greater than 80% of the diameter of the initial aperture of the total objective and not greater than 180% of this diameter; the difference of the lengths of radii of said outer lens surfaces in at least one of said first and second system of lenses being distinctly smaller than 80% of the diameter of the initial aperture of the total objective.

**2,646,722**
**DEVICE FOR DISPOSING OF EJECTED CARTRIDGE CASES**
**Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application November 19, 1947, Serial No. 786,975**
**3 Claims. (Cl. 89—33)**



1. A device for transferring articles successively and forcibly ejected through an opening of a machine to positions remote from the machine, comprising a conduit having a portion arranged adjacent to said opening for successively receiving said articles and a terminal end remote from said machine, a resilient buffer which is positioned at the receiving portion of the conduit and which engages the front ends of the ejected articles and absorbs the impacts of said articles as well as substantially stops ejecting movement of said articles, spaced rotatable members located at opposite sides of the conduit and spaced lengthwise of the conduit from the buffer a less distance than the lengths of the articles, said members having conical surfaces which diverge as they approach the machine and which are shaped and arranged to receive the rear end of each of the articles substantially simultaneously with the engagement of the front end of such article with the buffer, opposed portions of said conical surfaces being moved rapidly toward the terminal end of the conduit to draw the articles into the conduit and simultaneously therewith to propel them with considerable force in a direction substantially different from the direction in which they are ejected through the opening of the machine and rear ends first toward the terminal end of the conduit, and power means for operating said members.

**2,646,723**
**CHUCK AND METHOD OF CHUCKING**
**Martin A. Donohoe, Gates, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York**
**Application January 25, 1947, Serial No. 724,340**
**12 Claims. (Cl. 90—1)**



1. The method of machining the teeth in a member which is adapted to have two sets of face clutch teeth formed on its opposite sides that are coaxial, respectively, with two different axes which are offset from one another, which comprises machining one set of teeth while locating the work radially relative to the cutting tool from a hole disposed centrally of the teeth that are to be machined in said side and while locating the work axially relative to the tool from the surface which is adapted to contain the tips of the teeth that are to be machined on the other side, and then machining the teeth on the second-named side of the member while locating the work axially and radially relative to the tool from the teeth machined in the first-named side.

10. A rotable chuck for a workpiece which when completed has a set of face clutch teeth on each of two opposite sides, the two sets of teeth being disposed respectively about axes offset from each other, which chuck comprises a rotary support mountable coaxially with the work spindle of a tooth cutting machine, locating means carried by said support and engageable with one set of teeth of the work, said locating means comprising a set of teeth mating with said one set of teeth of the work for determining the position of the workpiece axially, radially and angularly relative to the chuck, and said set of teeth comprising the locating means being parallel to and offset from the axis of the chuck by a distance equal to the distance between the axes of the two sets of teeth of the workpiece, and means for securing the workpiece to said support by clamping together said mating sets of teeth.

**2,646,724**
**METHOD FOR GENERATING GEARS**
**Alfred W. Klomp, Detroit, Mich., assignor to Process Gear and Machine Co., Detroit, Mich.**
**Application July 27, 1946, Serial No. 686,772**
**2 Claims. (Cl. 90—3)**

1. The method of generating a gear which consists in the steps of rotating a cutting face about an axis which intersects and is perpendicular to the axis of the blank gear, moving the blank in an arc so that its axis moves toward and away from the intersection of the cutting face

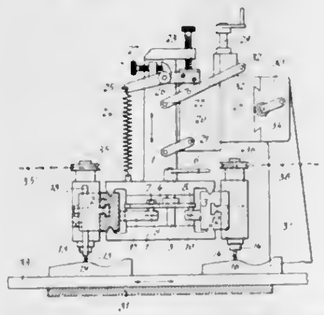


axis and the blank axis, moving the axis of the blank toward and away from the cutting face



to perform the cutting operation, and indexing the blank.

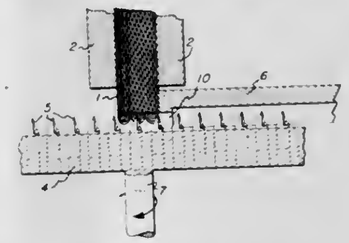
**2,646,725**
**THREE-DIMENSIONAL DUPLICATING ENGRAVING OR MILLING MACHINE**
**Finn Brynildsrud, Moss, Norway**
**Applicatton November 29, 1949, Serial No. 129,890**
**In Norway December 2, 1948**
**8 Claims. (Cl. 90—13.1)**



1. A three-dimensional copying milling machine comprising a tracer arranged for vertical and horizontal movement over the surface of the pattern to be copied, at least one cutting tool which is adapted to follow the movements of the tracer and to reproduce the shape of the pattern on a work-piece, a work table to which the pattern and the work-piece are securable and which is movable in its own plane to effect feeding movements of the pattern and the work-piece, and supporting means carrying at least one sliding member having bearings for each cutting tool and the tracer, said supporting means being movably suspended in a slidable mounting for vertical movement in response to vertical movements of said tracer, said sliding member being movable at an angle with respect to the direction of movement of the suspended supporting means.

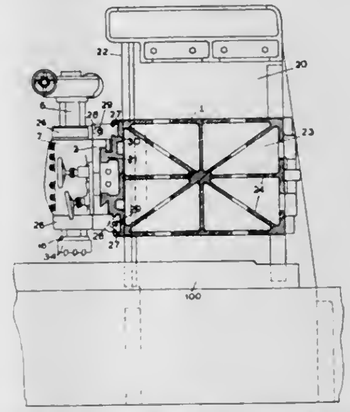
**2,646,726**
**APPARATUS FOR TRIMMING AND NOTCHING SIGNATURES**
**Robert E. Fogg, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application January 12, 1950, Serial No. 138,169**
**12 Claims. (Cl. 90—14)**

1. An apparatus for pattern trimming clamped signatures of a book which comprises a rotatable disc-like base provided with cutting teeth which project upwardly from the said base and being disposed at spaced intervals near the periphery of the base and having their cutting edges on the side of the tooth nearest the periphery of the base, means for rotating the base in a substantially horizontal plane below the lower edge of the signatures to be trimmed, a disc-like backing plate which is stationary in operation and which is provided with a sharp cutting edge defined by a terminal end of a cut-away portion of a depending flange positioned against the entire depth of one side of the signatures exposed below the clamping means, the said sharp edge being



substantially vertical and along the point of tangency between the disc-like backing plate and the signatures, and having substantially the identical contour as the cutting edge of the said teeth, means for passing clamped signatures across the path of the cutting teeth in contact with the backing plate at its cutting edge, whereby a portion of the exposed edges of the signatures is cut by a shearing action.

**2,646,727**
**PLANING MACHINE**
**Oskar Waldrich, Werthenbach, Kreis Siegen, Germany**
**Application June 20, 1949, Serial No. 100,185**
**In Germany October 1, 1948**
**8 Claims. (Cl. 90—53)**



1. In a tool for planing or shaping machines having a plurality of groups of cutting edges adapted to be selectively engaged with material to be worked by rotation of the tool about an axis angularly disposed to a line perpendicular to the surface of said material, the combination including, a first group of cutting edges disposed for engagement with the material in skewed relation to the line of relative movement between the tool and the material in one direction when the tool is held in one position, and a second group of cutting edges disposed for engagement with the material in skewed relation to said line of movement in the reverse direction when the tool is held in a second position, the angle subtended

between said first and second groups of cutting edges being 180 degrees less twice the angle of skew of said cutting edges less the angle of rotation between said first and second positions of the tool.

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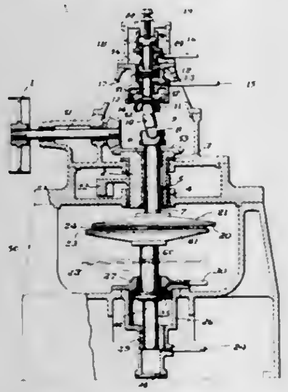
**2,646,728**

## APPARATUS FOR TREATING WOOD PULP

**James T. Coghill, Fairport, N. Y., and Harold S. Hill, Kenogami, Quebec, Canada, assignors, by mesne assignments, to Curlator Corporation, Rochester, N. Y., a corporation of New York**

**Application October 25, 1946, Serial No. 705,540**

**8 Claims. (Cl. 92—26)**



3. An apparatus for processing papermaking pulp by traversingly rolling nodulated pulp under compression, which comprises a pair of working plates which have opposed working surfaces that define between them a relatively thin working space, each of said working surfaces being a basically plain surface but having tiny, spaced protuberances projecting therefrom into said working space which provide traction for the pulp without obstructing rolling traverse of units of the pulp on and over the surface, said protuberances having continuous peripheral surfaces, means pressing one of the plates toward the other to compress pulp between them, means for imparting a gyratory translatory movement to one of said plates about an axis extending in the direction of compression while the pulp is under compression, and means including a universal joint constraining said one plate so that during said gyratory movement all points in the working surface of said one plate trace separate, identical paths relative to the working surface of the other plate.

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**2,646,729**

## TAMPING MACHINE

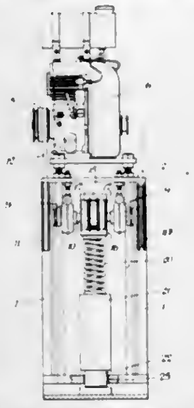
**Albert Godenir, London, England, assignor, by direct and mesne assignments, to The Cementation Company Limited, London, England, a British company**

**Application February 17, 1949, Serial No. 76,977**

**In Great Britain November 11, 1946**

**5 Claims. (Cl. 94—48)**

1. A tamping unit comprising a tamping hammer, spring means connected at one end to said tamping hammer for the suspension thereof, an eccentric device for producing harmonic oscillating motion in the vertical direction, frame means supporting said eccentric device, means operatively connecting the other end of said spring means to said eccentric device to transmit the oscillating harmonic motion to said spring means, a source of power for rotating said eccentric device at a substantially uniform pre-determined angular speed, the spring stiffness of the spring means being substantially equal to the product of the mass of the hammer and the square of the said substantially uniform pre-determined angular velocity so that said hammer travels downwardly at its maximum velocity when said eccentric device is disposed with its maximum eccentricity in the downward direction, a tamping shoe plate separate from said hammer and movably mounted



on said frame means below said hammer and in the path of movement of the latter, and means yieldably holding said tamping shoe plate in a position which is located a distance from the axis of said eccentric device equal to the distance from the bottom of said hammer to said axis when the eccentric device is disposed with its maximum eccentricity in the downward direction and said spring means is stressed only by the weight of said hammer suspended therefrom, so that said tamping shoe plate is contacted by said hammer at substantially the instant when the latter is travelling downwardly at said maximum velocity thereof.

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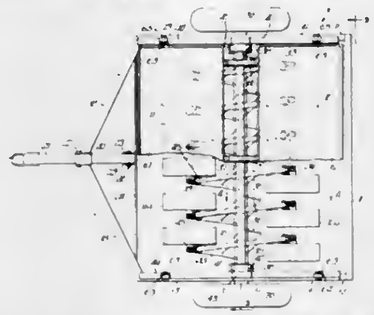
**2,646,730**

## ROAD MACHINE

**Bennie T. Vig, Morris, and Arthur H. Fischer, Alexandria, Minn.**

**Application November 1, 1949, Serial No. 124,884**

**8 Claims. (Cl. 94—50)**



1. In a ground working machine of the class described having a main frame and transporting wheels on opposite sides of said frame, in combination, front and rear sets of ground working wheels disposed between opposite sides of said frame, a horizontal arm support member extending between said sets of ground working wheels and supported at opposite ends by said frame, an individual support arm for each of said ground working wheels, each of said support arms being swingably mounted at its inner end on said arm support member for swinging in a vertical plane and each of said support arms at its outer end being attached to the axle mounting of one of said ground working wheels, said support arms extending alternately on opposite sides of said arm support member with said front set of ground working wheels being mounted on the support arm extending on the front side of said arm support member and said rear set of ground working wheels being mounted on the support arms extending on the rear side of said arm support member, the ground working wheels in said rear set being staggered with respect to the ground working wheels of said front set, a horizontal common support member disposed over said arm support member from which said ground working wheels are suspended, means for adjustably positioning said common support member at different elevations over said arm support member whereby when said common support member is fully raised said ground working wheels will be lifted off the ground and when said common support member is fully lowered said transporting wheels will be lifted off the ground, yieldable compression linkage means individually interconnecting the axle mounting of each of said ground working wheels with said common support member whereby a compression load may be yieldably transmitted between said common support member and said ground working wheels, and tension linkage means interconnecting said ground working wheels and said common support member therefor so that said wheels will be lifted from the ground when said member is fully elevated.



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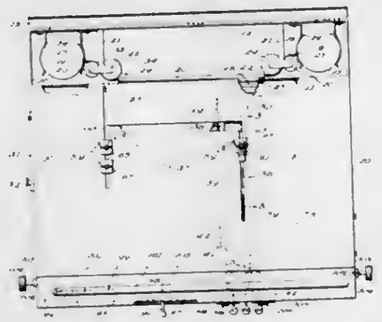
**2,646,731**

## PHOTOCOMPOSING APPARATUS

**Robert W. Wirtz, Peoria, Ill., assignor to Wirtz Company, Peoria, Ill., a copartnership**

**Application March 6, 1950, Serial No. 147,827**

**4 Claims. (Cl. 95—4.5)**



1. In a photographic character printing machine, means for supporting a supply roll of photographic film, means for receiving said film as it issues from said supply roll, a feed sprocket meshing with feed holes in said film for advancing said film in variable increments of movement from said supply roll past an image exposure station to said receiving means, a gear train for rotating said sprocket, a ratchet toothed plunger reciprocable between gear train actuating direction and return-to-start direction of movements, a keyboard including a plurality of key levers, means associated with said key levers for imparting to said plunger a gear train actuating motion, a probe associated with one of said key levers, and an interchangeable character disc rotatably mounted in said machine so as to be selectively positionable to display any of its characters at said exposure station, said disc bearing peripheral notches of varying depth according to space variations of its borne characters, said notches being engageable by said probe for thereby regulating the degree of depression of said one of said key levers and through it the degree of said plunger stroke.

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**2,646,732**

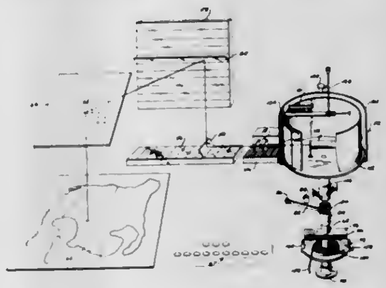
## AUTOMATIC WEATHER MAP PLOTTER

**Richard E. Offeman, Bellflower, Calif.**

**Application August 31, 1951, Serial No. 244,683**

**13 Claims. (Cl. 95—4.5)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. Apparatus for printing photographically symbolical data at a preselected station on a light sensitized receiving form, comprising a light source, means for projecting the light from said source to form a beam, three banks of reflecting mirrors for guiding said beam from the source to said receiving form, means for selecting individual mirrors from each of said mirror banks to direct the light beam to a preselected area on said receiving form, each mirror of the first bank being normally free of said projected beam but on selection being movable to intercept the light beam and reflect the same to the selected second bank mirror where it is reflected to the selected third bank mirror and to the receiving form area, support means for a group of light film symbols, means for interposing a selected symbol in said light beam, after said beam has been directed to said station, shutter means for exposing said film to the light beam, and means for restoring said mirror and symbol interposing means to initial positions after the symbols have been printed at said station.

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**2,646,733**

## RECORD-ACTUATED PHOTOCOMPOSING MACHINE

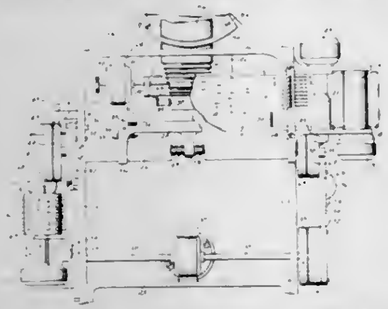
**Howard B. Ackerman, Rockville Centre, N. Y.**

**Application December 20, 1947, Serial No. 792,977**

**11 Claims. (Cl. 95—4.5)**

1. In an apparatus for photographically composing justified lines of text matter in response to character and space signals carried by a strip record of the text matter, including means for moving the record strip through the apparatus, a light projecting mechanism, and a carrier for a light sensitive sheet upon which projections of characters are impressed by the light projecting

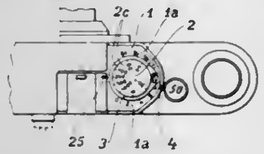
mechanism, the improvement which includes a record strip having character signals, space signals and justification signal means, the justification signal means having a component varying in magnitude in proportion to the justified space measurements for the individual lines of text matter which they represent, a master character plate positionable relative to the light projecting mechanism, electrically actuated mechanism controllable by and responsive to the character and space signals carried by the record strip, the electrically actuated mechanism including means actuated by a character signal for first positioning



the character plate to present the character of the signal in position for photographing, for then impressing the character by light action upon the light sensitive sheet on the carrier, and for thereafter moving the carrier a distance equal to the width of the character for character spacing, said electrically actuated mechanism also including means actuated by a space signal for first positioning the character plate to present a blank at the photographing locus, and for then moving the carrier for word spacing to provide a space of a particular width as predetermined by a justification signal means.

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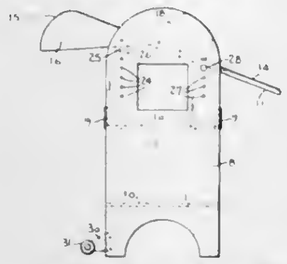
**2,646,734**
**PHOTOFLASH SYNCHRONIZING MECHANISM FOR FOCAL PLANE SHUTTER CAMERAS**
**Adam Wagner, August Bröhl, and Walter Jung, Wetzlar (Lahn), Germany, assignors to Ernst Leitz, G. m. b. H., a corporation of Germany**
**Application May 29, 1951, Serial No. 228,814**
**In Germany July 8, 1950**
**1 Claim. (Cl. 95—11.5)**




A photoflash synchronizing mechanism for cameras of the focal plane shutter type comprising, in combination, a camera housing, an exposure timing knob rotatably mounted thereon, an exposure time scale on said knob for rotatably adjusting the knob to a selected time exposure value with reference to a fixed mark on the housing, an annular cam integral with said timing knob, said cam having a depression area adapted to be moved into a position corresponding to a selected time exposure value determined by the rotary adjustment of said timing knob, a photoflash lamp, an electric circuit therefor including two normally open circuit terminals, a flash value scale on the housing, a flash value setting ring rotatably mounted on said housing to rotate about and within said timing knob in rotatable adjustable relation to said flash value scale, means for supporting one of said terminals on said setting ring insulated therefrom, a circuit closing lever pivoted on said setting ring within the timing knob and engaging said cam to prevent closure of the circuit, said lever forming the other of said terminals, said lever having a nose adapted to enter said cam depression area upon rotation of the cam from its said adjusted time value position and a spring within said setting ring engaging said lever to cause the nose thereof to enter the said depression area to move said lever into circuit closing contact with said setting ring contact when said cam is rotated with said timing knob in a direction opposite to the direction of the time setting movement of the knob.

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**2,646,735**
**BABY POSER**
**Frederick R. ZumBrunnen, Monroe, Wis.**
**Application June 13, 1951, Serial No. 231,305**
**4 Claims. (Cl. 95—82)**



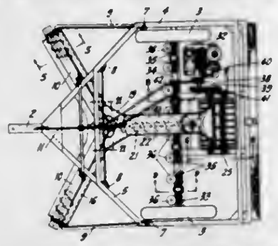
1. In a structure of the character described, the combination of spaced uprights having side guard portions, each of said uprights having longitudinally spaced series of vertically spaced apertures spaced from the top of the side guard portions, an elongated supporting platform for carrying an infant in a prone position thereon, said platform having spaced sets of apertures below its top cooperating with said spaced series of apertures, rods removably engageable with said apertures in said platform and any one of vertically spaced sets of apertures in said uprights to adjustably hold said platform in the desired vertical position with its rear end downwardly inclined to bring the front portion of the infant in a prone position thereon toward the camera, and means on said platform forming a back stop engaged by a part of said infant to prevent the infant slipping downwardly toward the lowered end of said platform.

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**2,646,736**
**SOIL CONDITIONING MACHINE**
**Harold E. Swartout, Davenport, Iowa**
**Application June 28, 1948, Serial No. 35,548**
**6 Claims. (Cl. 97—10)**

1. An agricultural machine comprising a framework for attachment to a tractor unit, wheels for supporting the framework at an approximately fixed distance above the earth's surface, casings open on the forward side and having screw type excavators therein, said casings being arranged at a substantial angle with relation to each other in a substantially horizontal plane, a third casing rising at a substantial inclination from the junction of the first casing, a screw conveyor rotating in the third casing to feed dirt and vegetation upwardly, a hopper supported on the frame underneath the upper end of the third casing, rotatable pulverizing means on an axle rotating in said hopper, for the pulverizing of products dropped into said hopper by the screw conveyor in the third casing, said structure having wheels on opposite sides of the machine con-

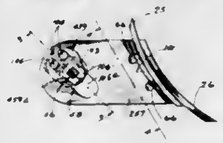




nected to the frame to support the same, a shaft extending transversely of the machine forwardly from the hopper, a frame member associated with said shaft, bearings carried by said frame member and supporting substantially vertical augers, driving means connecting the shaft and the screw type excavators to cause rotation of the latter, and driving means for causing rotation of the screw conveyors.

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**2,646,737**
**BEARING FOR WEEDER RODS**
**Laurence O. Fundingsland, Burlington, Colo.**
**Original application June 10, 1949, Serial No. 98,317, now Patent No. 2,603,137, dated July 15, 1952. Divided and this application March 22, 1952, Serial No. 278,054**
**2 Claims. (Cl. 97—42)**

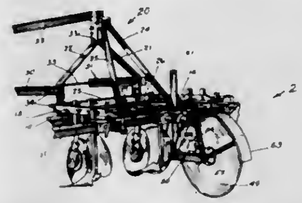


1. In a rod weeder of the type having a wheel supported frame and provided at its rear with a plurality of resilient spaced plow pendents, a weeder rod bearing secured to the rear of each pendent, said bearing comprising a bracket plate having means at its front end for effecting connection with the rear of a plow pendent, said plate having a keyhole shaped opening near its rear end, the circular portion of said opening being at the rear, the lateral notch extending downwardly and forwardly, a spool positioned in the opening, the spool having a tubular hub portion with end flanges of greater diameter, the circular opening being of sufficient size to permit the spool flanges to pass, the notch having a width sufficient to receive the hub of the spool but less than the diameter of the end flanges, a bearing block positioned in the circular part of the opening to the rear of the spool, and means for attaching the bearing block to the bracket.

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**2,646,738**
**CULTIVATOR**
**Thomas J. Denning, Hudson, Colo.**
**Application June 18, 1951, Serial No. 232,164**
**7 Claims. (Cl. 97—198.1)**

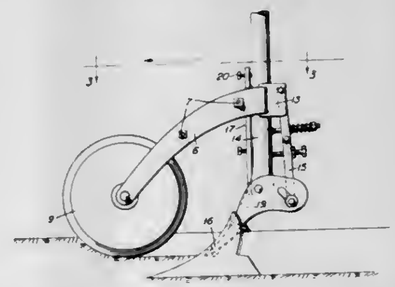
6. In an agricultural implement of the type having a frame adapted to be moved over the ground, comprising; a substantially vertically extending shank having a ground engaging tool at its lower end, a second shank having a fin at its lower end adapted to follow in ground broken by the ground engaging tool, means for individually adjusting said shanks relative to the frame in a substantially vertical direction, where-



by the depth of the fin in broken ground may be varied and the distance of the fin and ground engaging tool below the frame may also be varied, means for angularly adjusting said second shank about a substantially vertical axis, and means for adjusting both shanks as a unit about a horizontal axis, whereby the downpitch of the ground engaging tool may be varied.

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**2,646,739**
**VINE CUTTER**
**Elwood A. Rohr, Montezuma, Ind.**
**Application November 21, 1950, Serial No. 196,839**
**2 Claims. (Cl. 97—209)**



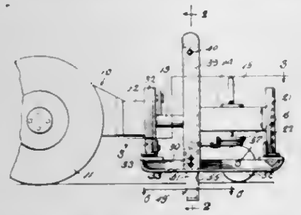
1. In a vine cutting attachment for the shank of a cultivator plow, a pair of cutter supporting arms, means securing the arms to each other in spaced apart relation and in clamping position at opposite sides of the shank, an elongated plate positioned between the arms and having shoulders overlying the arms, and means securing the plate in a vertical position to the shank and in front thereof to hold a cutter supported by the arms aligned with the plow.

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**2,646,740**
**SOD CUTTING ATTACHMENT FOR GARDEN TRACTORS**
**Verner Luoma, Eveleth, Minn.**
**Application January 4, 1952, Serial No. 264,883**
**1 Claim. (Cl. 97—226)**

A device of the character described comprising a frame, means for attaching said frame to a tractor, a supporting roller mounted in the lower end of said frame, a U-shaped blade swingably mounted in said frame, and means for oscillating said blade, said blade being mounted immediately rearwardly of said roller, and said means for oscillating said blade including a vertical drive shaft carried by said frame, a disc mounted at

the lower end of said shaft, said disc having a plurality of openings therethrough each at a different distance from said shaft, a cross bar associated with said blade, a bolt extending centrally



through said cross bar, a bolt selectively mounted in one of said openings, and a connecting rod having ball and socket connection at each of its ends with said bolts.

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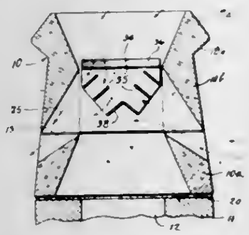
**2,646,741**
**GRILLE STRUCTURE**
**Vernon Dell Castle, Waterloo, Iowa, assignor to Titus Manufacturing Corporation, Waterloo, Iowa, a corporation of Iowa**
**Application June 25, 1948, Serial No. 35,188**
**11 Claims. (Cl. 98—40)**



1. A grille construction, comprising a frame, a plurality of louvre vanes mounted within said frame, and means intermediate the ends of said vanes for mounting each of the vanes for independent rotation and adjustment with respect to each other, said means comprising a member supported from the frame, an arcuately surfaced enlarged portion associated with said member for each of said vanes and an opening in each of said vanes the sides of which are substantially complemental to and cooperative with said arcuate surface of said enlargement.

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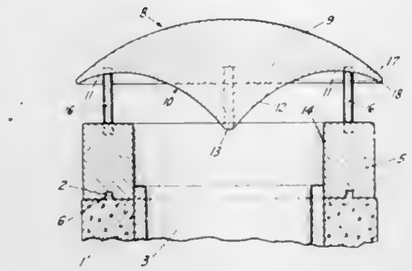
**2,646,742**
**CHIMNEY BLOCK**
**Lloyd V. Parsons, Seattle, Wash.**
**Application April 2, 1951, Serial No. 218,876**
**2 Claims. (Cl. 98—78)**



1. A cast concrete chimney block of the character described adapted to be mounted on the top of a chimney and comprising a base section and a top section disposed on the base section; the base section being formed with an upwardly tapered flue passage adapted to register with the chimney flue, and being substantially larger at its lower end than the chimney flue, and substantially of the same size at its upper end, said top section being formed with a flue passage which is a continuation of the base section flue passage and which has the upper end portion thereof outwardly flared; opposite side walls of the chimney block having passages opening upwardly therethrough into the flue passage of the block at a common level, and a baffle of pyramid form removably suspended in the flue passage of the top section within the top and lower edge limits of the open inner ends of the side wall passages to stop direct downward flow of air currents into the chimney flue.

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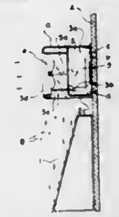
**2,646,743**
**CHIMNEY CAP CONSTRUCTION**
**Richard F. Van Alstyne, Davenport, Iowa**
**Application January 28, 1950, Serial No. 141,140**
**1 Claim. (Cl. 98—83)**



A chimney cap construction comprising a molded annular base member, a disk-like cap member having an upper convex surface and a lower downwardly extending conoidal surface, said surfaces being joined at their outer peripheral portions forming a thin edge, and said lower surface being shaped so as to extend upwardly and radially outwardly from the apical center of said lower conoidal surface to points lying above but radially inwardly of said peripherally positioned thin edge, and thence downwardly and radially outwardly to points merging with said thin edge, thereby presenting to a transverse air current a downwardly facing substantially annular surface having a positive or upward camber, said thin edge lying in a substantially horizontal plane and said lower surface extending from said apical center upwardly and outwardly in a smooth curve and intersecting said plane at points lying approximately midway radially inwardly from the outer circumference of said thin edge to the vertical axis of said apical center, whereby said lower surface radially outwardly of said points of intersection extends upwardly of said plane and then downwardly relative thereto to their juncture with said thin edge, and means for supporting said cap member above said base member such a distance that the downwardly extending apex of said conoidal surface lies adjacent the horizontal plane of the upper end of said annular base member, whereby movement of air currents in an approximately horizontal direction can pass across said cap member, both below as well as above the latter, which serves to draw flue gases out of the chimney through the space between said base member and said cap member at the downwind side of the chimney.



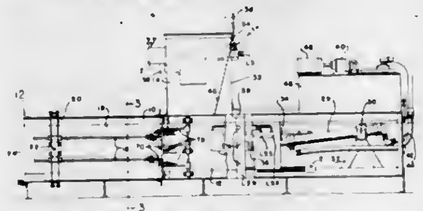
**2,646,744**
**COMBINATION HEATER OUTLET AND AIR CIRCULATOR**
**John S. Andrews, Los Angeles, Calif.**
**Application April 23, 1949, Serial No. 89,222**
**2 Claims. (Cl. 98—108)**



1. In a combination heater outlet and air circulator, a wall, heat outlet means at the normally inner side of said wall, an elongated hood adjacent said wall above said heat outlet means and overhanging the same, said hood having an open lower side, a motor casing arranged substantially in the center and at the rear portion of said hood, said hood having a substantially hollow cylindrical horizontal fan housing opening to the front of the hood and provided with an opening in the lower side thereof communicating with the interior of said hood, said hollow cylindrical fan housing substantially enclosed at the other end adjacent said motor casing, a motor in said motor casing having a shaft projecting through the closed end of said hollow fan housing portion of said motor casing, and a fan on the extended end of said shaft, the closed end of said fan housing constituting a partition between said fan and motor.

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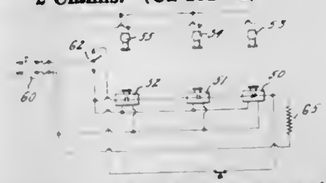
**2,646,745**
**BALING MACHINE**
**Robert E. Seltzer, Bellevue, Ohio, assignor to The American Baler Company, Bellevue, Ohio, a corporation of Ohio**
**Application March 24, 1949, Serial No. 83,211**
**4 Claims. (Cl. 100—53)**



1. In a baling machine having a frame with a baling chamber and a compression chamber therein, a hopper opening vertically into said compression chamber from above, a baling head reciprocable through said compression chamber, one side wall of said hopper being hingedly supported along an upper edge so as to be movable into the hopper into position to interrupt the flow of material through said hopper and to expose said compression chamber, latch means for retaining said wall in its material interrupting position, fluid operated motor means for reciprocating said baling head, means responsive to the movement of said one wall to its material interrupting position for bringing about the halting of said baling head at the end of its next following retraction stroke, manual means selectively operable for releasing said head from its retracted position for movement in its advanced direction, and means operable following the operation of said manual means for releasing said latch to return said wall to its original position and also operable for halting said fluid operated motor means while maintaining pressure thereon in its fully advanced position.

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**2,646,746**
**CONTROL SYSTEM FOR BILLET MARKING**
**Herman E. Mulier, Sr., Swissvale, Pa., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application April 1, 1947, Serial No. 738,763**
**2 Claims. (Cl. 101—4)**



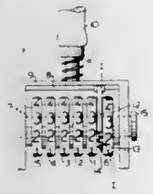
1. In combination with a conveyor and apparatus for marking the rearward ends of a series of billets being successively fed along the conveyor, said apparatus having a marking device in an initial operating position out of the path of travel of the billets, means for actuating the marking device to mark a billet and means for resetting the marking device to initial position; a series of three light sensitive elements positioned along the conveyor, a light source positioned opposite each of said elements and directed across the conveyor toward its associated element at a height adapted to energize the same when a billet is not interposed therebetween, said elements being spaced along the path of travel of billets on the conveyor, the spacing between the first and last of the elements being equal approximately to the length of a billet, whereby each of said elements are deenergized in sequence by the lead end of a billet passing along the conveyor and are reenergized in the same sequence by the passing of the trailing end of the billet, a solenoid mechanically connected to the means for actuating the marking device and controlling the operation thereof, a first relay operable by the first of said series of light sensitive elements along the path of travel of the billets and having a pair of normally closed contacts opened by deenergization of said first element, a second relay operable by the second of said light sensitive elements and having a pair of normally open contacts closed by deenergization of said second element and a third relay operable by the third of said light sensitive elements and having a set of normally open contacts closed by deenergization of said third element, said solenoid and aforementioned contacts of said first, second and third relays being connected in series circuit to a suitable power source whereby the circuit to said solenoid is completed and the marking device is actuated only when the second and third light sensitive elements are in the deenergized state and the first light sensitive element is energized.

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**2,646,747**
**COUNTER FOR NUMBERING AND MEASURING DEVICES**
**Theodorus Reumerman, Zandvoort, and Willem H. T. Helmig, Leiden, Netherlands**
**Original application August 27, 1948, Serial No. 46,494. Divided and this application April 19, 1951, Serial No. 221,762. In the Netherlands August 30, 1947**
**9 Claims. (Cl. 101—85)**

1. A counter for numbering and measuring devices, comprising a unit figure wheel having

ten positions, a plurality of other figure wheels each having ten positions, a checking wheel having N positions, N being a prime number greater than 10, means for displacing each of the said other figure wheels over one position



after each complete revolution of the preceding figure wheel, and means for simultaneously driving said unit figure wheel and said checking wheel in such manner that said checking wheel is displaced over one position for each displacement of said unit figure wheel over one position.

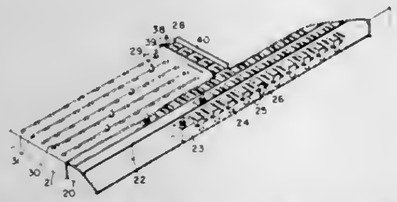
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**2,646,748**

## HAND STAMP TYPE-SETTING DEVICE

**George T. Brown, Jr., Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**

**Application July 28, 1950, Serial No. 176,446**
**1 Claim. (Cl. 101—109)**



A type-setting and handling device including, in combination, a receptacle having a plurality of slidable type carriers, each of said carriers having a plurality of individually removable type slugs spaced thereon at intervals in the direction of slide, said receptacle having a type slug removing and replacing station with reference to which the carriers may be individually indexed to bring into alinement at said station at the same time any selected type slug of each of selected ones of the carriers; and a portable handle having a grip by which the type slugs alined at the station may be lifted from the receptacle as a group and held while in use and during their return to the receptacle, said grip having opposed spring fingers which are attached to the handle, ends outwardly, said fingers, when pushed over the type alined at the station, spreading and holding the type by spring pressure, said grip having a release member between the opposed fingers against which the gripped type rest, said release member having a locking formation thereon and being movable toward the end of the fingers to dislodge the gripped type, said grip having a hole which cooperates with a pin mounted on the receptacle, as the grip is moved toward the station to aline the fingers and the type, and said grip having a spring-pressed latch movably mounted in the handle and normally resiliently held in one position in which it partially covers the hole but being resiliently moved therefrom by the entry of the pin thereinto, said latch when in the hole-covering position engaging the locking formation of the release member to lock it so that the held-type may not be dislodged thereby, and said latch in the moved position disengaging the locking formation and thus being ineffective to lock the release member.

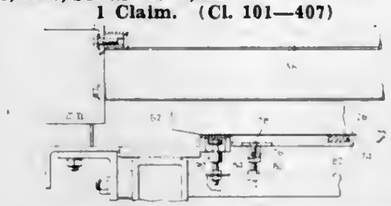
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**2,646,749**

## STENCIL PRINTING APPARATUS

**John B. Thomas, Watertown, Conn., and Courtney E. Moorhouse, West Englewood, N. J., assignors to Roto-Matic Screen Printer, Ltd., New York, N. Y., a corporation of New York**

**Original application February 5, 1947, Serial No. 726,504. Divided and this application March 3, 1949, Serial No. 79,412**
**1 Claim. (Cl. 101—407)**



In combination in a silk screen printing machine, a flexible elongated blanket adapted to support a textile web, said blanket having downwardly projecting elements adjacent its lateral edges, a printing table across which the blanket is adapted to move and on which the blanket rests during printing, said table including a flexible metal plate which extends between said elements and is covered with a resilient material, means to independently vary the level of different portion of said plate adjacent and intermediate the edges thereof, members at the back and front of said plate for supporting said elements, and means to independently vary the level of different portions of said members.

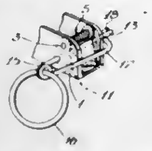
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**2,646,750**

## GRENADE FUSE

**Albert Fernand Marie Diels, Brussels, Belgium, assignor to Poudreries Reunies de Belgique, Societe Anonyme, Brussels, Belgium, a Belgian company**

**Application September 15, 1950, Serial No. 185,030**
**In Luxemburg July 28, 1950**
**5 Claims. (Cl. 102—85.6)**



5. In a grenade fuse, in combination, a body containing an explosive charge, mutually parallel integral flanges forming a portion of said body and having therein opposingly located holes, a short shaft rotatably supported by and between said flanges, a striker plate rotatably mounted on said short shaft, a spring wound under tension around said shaft so as to cause said striker plate to rotate, two substantially parallel vanes formed integrally with said striker plate and both lying in planes perpendicular to the body of said striker plate, both said vanes being pierced with oppositely disposed holes, a safety pin having a portion thereof passing through both said holes in said striker plate and through said opposing holes of said body flanges, a finger ring, said safety pin forming a loop around a peripheral portion of said ring, a rectilinear limb forming one side of and being substantially parallel to the first-described portion of said safety pin so as to constitute an extension thereof, said limb being bent over at the free extremity thereof so as to form a hook engaging under the free end of the first-described portion of said pin, so that the hook can be disengaged and the first-described portion of said pin can be withdrawn through all said holes by a twist imparted to said ring, said vanes formed integrally with said striker being positioned in respective planes substantially parallel to the respective planes in which said body flanges lie, said holes opposingly located in said body flanges being situated at respective distances from all free edges of said body flanges of the same order of magnitude as the distance between said body flanges, whereby to minimize the possibility of accidental and unintentional wrenching away of said safety pin.



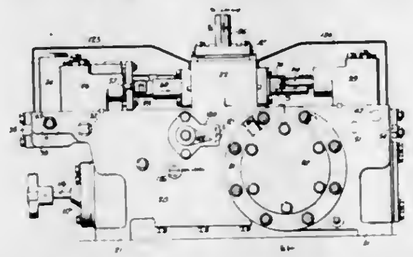
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**2,646,751**

## CONTROL UNIT FOR STEAM GENERATORS

**Carl F. Erikson, White Plains, N. Y., assignor, by mesne assignments, to Nathan Manufacturing Corp., a corporation of New York**

**Application May 20, 1950, Serial No. 163,242**
**12 Claims. (Cl. 103—38)**



1. A multi-pump unit comprising a base, a plurality of pumps oppositely mounted thereon, the pumps having various predetermined ratios of discharge, sliding shafts supported by the base having their ends connected to oppositely mounted pumps, and mechanism within the base for reciprocating the shafts to operate the pumps including a crank shaft, a plurality of eccentric rods on the crank shaft, linkages between the eccentric rods and sliding shafts, and means adjusting all linkages simultaneously to vary the travel of the sliding shafts while maintaining the predetermined ratios of discharge of the pumps.

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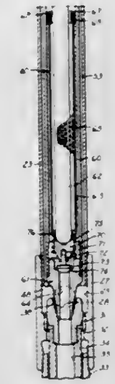
**2,646,752**

## PUMP WITH INLET STRAINER

**Willard F. Slater, San Marino, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio**

**Application November 25, 1949, Serial No. 129,230**
**12 Claims. (Cl. 103—46)**

1. In a well pumping apparatus, the combination of: a well pump having an inlet for a fluid to be pumped; a chamber connected to the lower end of said pump so as to be removable from the well therewith and defining an inlet passage which communicates at one end with said inlet and which conveys the fluid to be pumped to said inlet; strainer means in said chamber and traversing said inlet passage intermediate the ends thereof; and means intermediate said strainer means and the other end of said inlet passage for preventing flow through said inlet passage from said one end thereof to the other



end thereof so as to retain in said chamber any foreign matter intercepted by said strainer means during flow through said inlet passage from said other end thereof to said one end thereof.

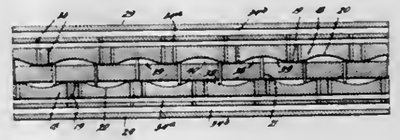
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**2,646,753**

## ROTARY FLUID MOTOR OR PUMP HAVING AXIALLY SLIDING VANES

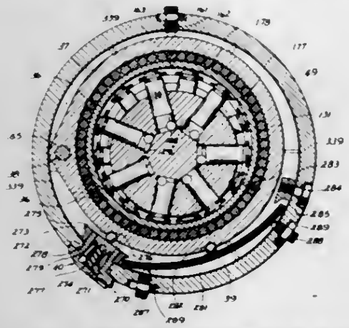
**Carl M. Zoll, New Orleans, La., assignor to Hydro Power, Inc., New Orleans, La.**

**Substituted for abandoned application Serial No. 582,452, March 13, 1945. This application February 14, 1951, Serial No. 210,889**
**3 Claims. (Cl. 103—139)**



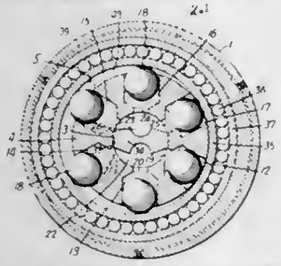
1. In a device of the kind described, a stator including an annular body portion open at both sides, a pair of cam plates engaging against the stator body around the side openings thereof, each of said plates carrying on their inner faces a sinuous circular cam having high and low points with the high points projecting into the stator body, the high points of each cam being opposite to the low points of the other, and a pair of heads engaging against the outer faces of the cam plates, said heads each having on its inner face a pair of annular and radially spaced grooves concentric to the axis of the plate, and supply and exhaust connections leading to said grooves, said plates each having ports leading from one groove of each pair of said grooves and opening through the high points of the respective cam at one side of each high point and having other ports leading from the other of said pair of grooves and opening through the high points of the last mentioned cam at the other side of each high point, in combination with a rotor mounted in the stator and having a slotted peripheral portion extending between said cams, and a series of blades slideably mounted in said slots and engageable at opposite edges with said cams.

2,646,754
**HYDRAULIC FLUID MECHANISM**
John W. Overbeke, Cleveland, Ohio
Application October 17, 1946, Serial No. 703,733
27 Claims. (Cl. 103—161)



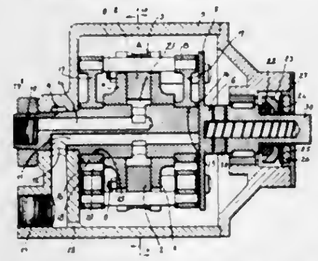
1. In a fluid displacement machine, a rotatable cylinder block having radially directed cylinder openings therein, pistons in the cylinders, an annular member surrounding the cylinder block and engaged by the pistons, the member being mounted for motion with respect to the cylinder block so as to vary the displacement of the machine by varying the eccentricity of the central axis of the member with respect to the axis of rotation of the cylinder block, the effect of fluid pressure in the cylinder block normally tending to reduce the displacement to zero, opposed means responsive to fluid pressure within the machine tending to move the member in an opposite direction, the means tending to decrease displacement having the greater effect, and initially stressed resilient means increasingly stressed as the displacement is decreased.

2,646,755
**HYDRAULIC MECHANISM**
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 21, 1947, Serial No. 723,436
10 Claims. (Cl. 103—161)



1. In a mechanism of the character described, a casing, a rotor rotatably mounted within said casing and having a plurality of radially disposed cylinders, spherical pistons in said cylinders, and a standard anti-friction bearing arranged within said casing eccentrically with respect to and surrounding said rotor with its axis at all times parallel to the rotor axis and including concentric bearing races providing annular trackways for receiving rolling bearing elements, said bearing having its inner race freely rotatable and formed with a smooth inner cylindrical surface providing a cam track freely against which said spherical pistons directly bear.

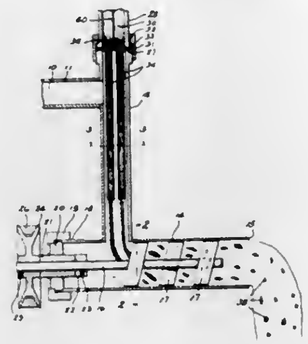
2,646,756
**ROTARY MACHINE ADAPTED TO OPERATE AS A PUMP, COMPRESSOR, OR MOTOR**
Georges Hippolyte Péguet and André Guyennon, Montpellier, France
Application July 31, 1947, Serial No. 764,971
In France November 24, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 24, 1965
4 Claims. (Cl. 103—161)



1. A rotary machine of the radial piston type comprising a central stationary fluid distributor, a rotary body adapted to rotate coaxially round the distributor and provided with radial bores cooperating with said distributor, pistons adapted to reciprocate in the corresponding bores, an eccentric bearing rigid with the distributor and lying in a plane substantially perpendicular to the axis of the latter to one side of the radial bores, a ring revolubly carried by the eccentric bearing and including an outer radial projection rigid with the said ring and acting as a master connecting rod, means operatively connecting the outer end of the master connecting rod with one of the pistons to constrain said piston and master connecting rod to remain permanently in a predetermined angular relationship with reference to the axis of rotation of the rotary body during the reciprocating movement of the piston considered and a plurality of auxiliary connecting rods pivotally secured to the ring and pivotally connected to the corresponding other pistons, a shaft coaxial with the rotary body, a spider-shaped plate rigid with the end of the shaft facing the rotary body and coaxial therewith, and means for locking the arms of the spider to the solid sections of the rotary body separating the different bores, a conical member fitted over the shaft, a torus-shaped member fitted inside said conical member over the shaft and adapted to provide fluidtightness along said shaft and to slide with said conical member over the shaft, a thrust bearing for the conical member and a spring urging the torus-shaped member against the conical member.

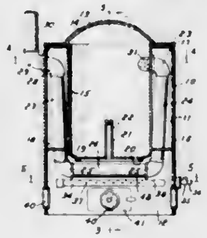
2,646,757
**METHOD AND APPARATUS FOR MAKING A VARIEGATED FROZEN CONFECTION**
Frank L. Hackmann, Rochester, Minn.
Application November 18, 1946, Serial No. 710,470
10 Claims. (Cl. 107—1)

1. In the manufacture of a frozen comestible in which discrete particles of a ribbonlike stream initially enveloped in a surrounding stream are to be distributed throughout material of the surrounding stream, the method of effecting such distribution which includes bending the axis of the flowing inner and outer streams and successively displacing portions of the combined streams transversely of the plane beginning within the region in which the bending occurs whereby the combined effect of the bending and the transverse displacement is to cut up the inner ribbonlike stream into discrete particles



and to distribute such particles throughout the enveloping stream.

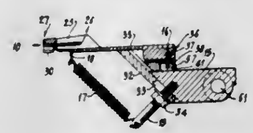
2,646,758
**INCINERATOR WITH SECONDARY COMBUSTION CHAMBER FOR VOLATILES**
John G. Greemen, Detroit, Mich.
Application July 1, 1950, Serial No. 171,643
11 Claims. (Cl. 110—18)



10. An incinerator comprising an outer casing, an inner receptacle for receiving the contents to be burned positioned in spaced relation within said outer casing, said receptacle having a grate forming the bottom wall thereof and having an opening in the upper portion thereof, said outer casing having an outlet therein for conducting products of combustion away from said incinerator, a secondary combustion chamber having an inlet and an outlet, the inlet of said combustion chamber communicating with the opening in the upper portion of said receptacle and the outlet of said secondary combustion chamber communicating with the outlet in said outer casing, said combustion chamber having a downwardly extending portion from the inlet thereof and having another portion extending adjacent said grate and communicating with the outlet thereof, means for supplying a flame to said grate and to said portion of said combustion chamber extending adjacent said grate, means for supplying primary air to said grate for effecting combustion of the material in said receptacle, and means for supplying secondary air to said secondary combustion chamber for effecting the combustion of the ignitable gases and other products of combustion flowing through said combustion chamber to said outlet in said outer casing.

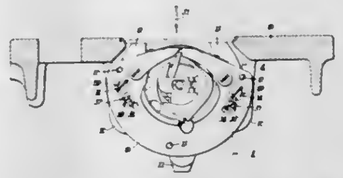


2,646,759
**FOLDER FOR BLINDSTITCH SEWING MACHINES**
Joseph Galkin, New York, N. Y.
Application November 28, 1949, Serial No. 129,749
2 Claims. (Cl. 112—147)



1. In a blindstitch belt loop sewing machine having a needle and a node former, a folder having two inwardly curved side edges for equally folding both side edges of the belt loop strip above the strip and toward each other in abutting relation, a support therefor, the front end portion of said folder being pivoted on said support to permit said node former to raise the rear end portion of said folder during each stitching operation, the lower face of said folder at the rear end thereof having an opening whereby said node former can enter directly into said folder, said folder having its outlet end portion directly in front of said needle and in far spaced-apart relation from said pivot, said pivot being positioned in alignment with the line of stitching, said folder having two inwardly curved side walls for equally folding both side edges of a belt loop strip above said strip and toward each other, said folder having an upwardly raised portion centrally thereof and in alignment with said bottom opening, forming a cavity in the belt loop material into which said node former enters to allow said needle to partly penetrate the top surface of the belt loop material.

2,646,760
**LOOP-TAKER MOUNTING MEANS FOR SEWING MACHINES**
Edward M. Hanf, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application January 2, 1951, Serial No. 204,046
6 Claims. (Cl. 112—196)



1. A loop-taker housing for removable attachment to a sewing machine, comprising, a loop-taker support having an aperture therein, a dowel pin located within said loop-taker support aperture and having its shank diameter substantially less than the maximum width of said aperture so as to be laterally adjustable therewithin, said dowel pin being longer than its associated aperture so as to project outwardly from said loop-taker support, and means carried by said loop-taker support for locking said dowel pin in a selective position of lateral adjustment within its associated aperture.

**2,646,761**
**METHOD OF MAKING BALL-TYPE WRITING TIPS**
**Max Knobel, Arlington, Mass., assignor to W. A. Sheaffer Pen Co., Fort Madison, Iowa, a corporation of Delaware**
**Application August 13, 1947, Serial No. 768,425**
**4 Claims. (Cl. 113—32)**



1. In the art of manufacturing ball point writing instruments, providing a one-piece tip member having a forwardly positioned ball-receiving socket including a forwardly positioned deformable annular ball-retaining rim and a coaxial ink feeding passageway, said passageway having a lesser diameter than said socket and a ball to be received therein and said passageway extending rearwardly through said tip from said socket, the side walls of said socket and said feeding passageway defining an annular base portion for said socket, thrusting a fluting tool in a rearward direction through said feeding passageway, said fluting tool having a maximum diameter less than the diameter of said socket but greater than the diameter of said passageway whereby to form a plurality of circumferentially spaced and longitudinally extending parallel channels opening into said socket through said annular base portion and defining ball seating segments in said annular base portion between each channel and whereby the material of the tip member dislodged by said fluting tool is displaced toward the rearward portion of said tip member remote from said socket, thereafter spherically swaging the annular base portion of said socket only between the forward ends of said channels to form a plurality of separate spherical surfaces on said ball-seating segments, said surfaces having a common center lying on the longitudinal axis of said feeding passageway and each spherical surface having the same radius as a ball to be mounted in said socket, each of said spherical surfaces also being located on each of said segments wholly between the defining channels and each of said channels opening into said socket in areas spaced radially outwardly from the outer edges of said spherical surfaces whereby said channels open into an annular cavity defined by said ball, said annular base portion and said side wall when said wall is supported in said socket on said surfaces, and thereafter securing a writing ball having said radius within said socket by deforming said annular rim around the equatorial zone of said ball while urging said ball into seating engagement with said surfaces.

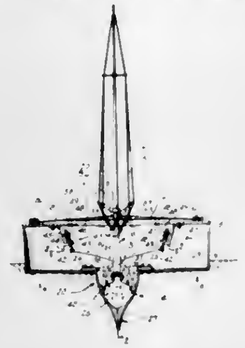
**2,646,762**
**METHOD OF FORMING OVEN LINERS**
**James W. Ingraham and Alfons Barnsteiner, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 21, 1949, Serial No. 116,901**
**1 Claim. (Cl. 113—116)**

The method of forming an oven liner having an open side comprising the steps of forming a member having a tubular wall encompassing the oven adjacent said open side, a preliminary flange extending outwardly from the tubular wall substantially in the plane of the open side and a connecting portion of relatively large radius joining the tubular wall and the flange, joining other wall portions of the liner to said member by welding, and thereafter reforming said connecting



portion to a smaller radius of curvature and bending back the outer marginal portion of said preliminary flange to provide a channel or U-shaped portion of the liner around said open side.

**2,646,763**
**BOAT CONSTRUCTION AND CONTROL OF SAILS**
**Louis Sveinsson, Baltimore, Md.**
**Application September 20, 1950, Serial No. 185,809**
**1 Claim. (Cl. 114—39)**



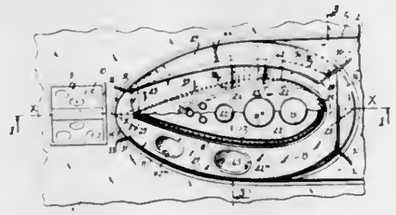
In a sailboat having a mast, a deck and a bottom, the deck and bottom adjacent the bow being provided with an opening, a watertight housing depending from the bottom and having the upper end opening into the space between the deck and bottom, means attaching the open end of the housing to said body, curved arms located below the opening in the deck and crossing each other above the opening in the housing, means pivotally mounting the lower ends of the arms on the opposite inner side walls of the housing, a shaft mounted in bearings in the housing and disposed longitudinally of the boat, a step pivoted on the shaft and provided with a socket projecting through the deck opening, the heel of the mast received by the socket, spring means pivoted to the underface of the deck and having pivotal connections with the adjacently disposed upper ends of the arms and linkage at each side of the step and having pivotal connections between the lower end of the step and an adjacently disposed lower end of an arm, the arms, linkage and springs limiting rocking movement of the step and mast.

**2,646,764**
**SHIP'S FUNNEL WITH SMOKE-DIRECTING PROVISIONS**
**Emile Frédéric Joseph Lascroux, Le Soupicou, Presqu'ile de Giens, France**
**Application January 24, 1951, Serial No. 207,628**
**In France February 2, 1950**
**14 Claims. (Cl. 114—187)**

1. In a ship funnel which has a vertical longitudinal plane of symmetry, in combination:



several substantially vertical pipes for smoke, steam and other gases, said pipes which are open at their upper ends, having their axes substantially in said plane, a streamlined unperforated envelope surrounding said pipes over a certain length and substantially from the upper ends of said pipes, two side screens of a generally longitudinal direction spaced laterally from said envelope and providing with said envelope two lat-



eral substantially longitudinal passageways open ahead of the front end and aft of the rear end of said envelope to canalize the outside air, and at least one transversal deflector in each passageway between said envelope and the corresponding screen, said deflector having a front face and a rear face which diverge downwardly from one another to deflect in an ascending direction the air which flows through said passageway respectively from the front to the rear and inversely.

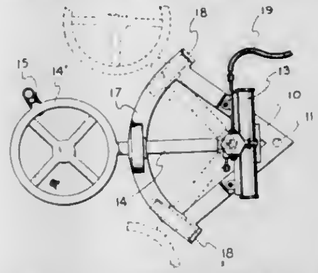
**2,646,765**
**MOTORBOAT**
**Ted R. Boles, Toledo, Ohio**
**Application May 14, 1951, Serial No. 226,264**
**3 Claims. (Cl. 115—26)**



1. A boat comprising a pair of parallel floats, at least a fore double concentric arched member connecting said floats and extending above the top of said floats, a frame fastened to the top point of said arched member, a forward rudder below said fore arched member, a handle bar pivoted on a vertical axle journalled in said fore member, said axle extending from above said fore member directly below to said forward rudder, at least one aft rudder, and means connected between said aft rudder and said forward rudder to oscillate simultaneously said forward rudder oppositely to said aft rudder.

**2,646,766**
**MOVING SIGNAL APPARATUS**
**Felipe Ruiz Garduño, Mexico City, Mexico**
**Application April 11, 1952, Serial No. 281,869**
**In Mexico June 21, 1951**
**2 Claims. (Cl. 116—58)**

1. A signal comprising a frame including a horizontally disposed curved track, a vertically disposed bearing on the frame, a motor mounted on the vertical bearing including a reciprocal member, an arm secured to and extending outwardly from the reciprocal member, a visible signal on the free end of the arm, and a freely rotatable roller mounted on the arm and supported on the



curved track, the roller travelling on the track when the arm is reciprocated.

**2,646,767**
**VALVE POSITION INDICATOR**
**John Hanson, Three Hills, Alberta, Canada**
**Application April 30, 1951, Serial No. 223,795**
**6 Claims. (Cl. 116—125)**



1. In a valve construction of the type including a threaded valve stem extending through a nut rotatably mounted on the valve housing for adjusting the position of the valve, valve position indicating means comprising an elongated gauge bar extending in parallel relation to the valve stem and having indicia thereon, a laterally extending indicator arm mounted for rotation on the valve stem about the axis of the valve stem, said arm having an aperture therethrough slidably receiving the gauge bar therethrough, and means for mounting the gauge bar against endwise movement relative to the valve housing and for rotation about the axis of the valve stem.

**2,646,768**
**GONG CONSTRUCTION AND MOUNTING**
**George R. Fish, Norwalk, Conn., assignor to Edwards Company, Inc., Norwalk, Conn., a corporation of New York**
**Application March 20, 1951, Serial No. 216,562**
**20 Claims. (Cl. 116—152)**

1. A signalling construction comprising a gong having a peripheral skirt-like portion adapted to be set into vibration upon being struck and a central securing portion made integrally with said skirt-like portion by an intermediate gong portion, a rigid support for said gong having a supporting face and having means relatively rigidly securing said central portion thereto, striking means for striking said gong at said peripheral portion, and means for substantially reducing the transmission of detrimental strains

and stresses from the vibrating skirt-like portion to said central portion and said securing means therefor comprising a plurality of yielding cantilever arms integrally formed with said



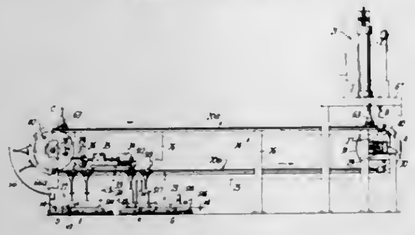
intermediate portion and extending in general radial directions from said central portion to said peripheral skirt-like portion, said intermediate portion having cut-outs intervening adjacent cantilever arms.

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**2,646,769**
**APPARATUS FOR APPLYING AND SETTLING COATINGS**

**James B. Lindsay, Millburn, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application February 24, 1949, Serial No. 78,077**
**11 Claims. (Cl. 118—11)**



7. In an automatic apparatus for applying a coating to an inner surface of a hollow object, a movable support for said object, a dispenser for charging the interior of said object with a suspension to form a pool thereof containing a coating material adapted to settle from said suspension when said pool is free from agitation, setting means spaced appreciably from said dispenser, and means for moving said support at a substantially constant and relatively low rate of speed from said dispenser to said setting means to prevent agitation of said pool, whereby said coating material settles uniformly from said suspension on said inner surface during movement of said object.

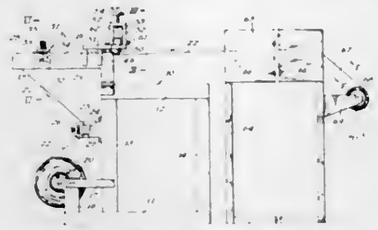
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**2,646,770**
**COATING APPARATUS FOR MAKING PRESSURE-SENSITIVE TAPE**

**Milton H. Kemp, Michigan City, Ind., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York**

**Application July 24, 1948, Serial No. 40,498**
**5 Claims. (Cl. 118—33)**

1. In apparatus for the production of pressure-sensitive tape including coating means for applying an adhesive to a fibrous web and drying means for drying said adhesive on said web, means for applying a liquid to said web immediately ahead of said coating means including a reservoir positioned adjacent said web, an absorbent wick extending from said reservoir into contact with that web surface to be later coated with adhesive immediately ahead of said coating means, a supporting framework rigidifying that portion of the wick contacting said web and including a rigid blade held against rotation enclosed by said wick and urging the wick into line



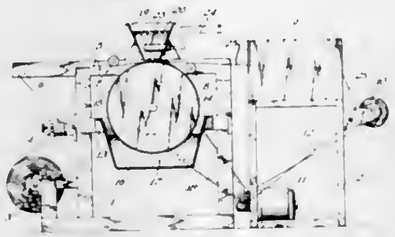
contact with the web to deflect said web from its normal plane of travel thereby tensioning the same, and adjustable means carrying said framework and loading the same toward said web to vary the tension upon said web at its line of contact with said wick.

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**2,646,771**
**APPARATUS FOR MAKING ADHESIVE TAPE**

**Ferdinand Salditt, Neuwied (Rhine), Germany, assignor to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York**

**Application April 27, 1950, Serial No. 158,524**
**In Switzerland May 7, 1949**
**8 Claims. (Cl. 118—44)**



1. In adhesive tape making apparatus, a tape supply spool, an adhesive tape receiving spool, means to move tape from the supply spool to the receiving spool along a predetermined path, a hopper to deposit an adhesive mass on a face of said tape during its travel, a vat for cooling liquid adjacent the path of the tape, and a rotary drum having an absorbent surface positioned to pick up liquid from said vat and bear against the tape opposite the point of application of the adhesive mass.

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**2,646,772**
**GALVANIZING MACHINE EXTRACTING MECHANISM**

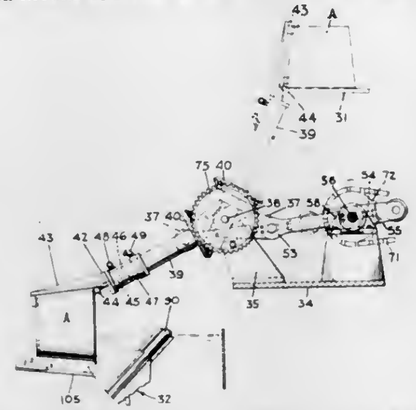
**Clifford E. Brownell, Buffalo, N. Y., assignor to Lisk-Savoy Corporation, Buffalo, N. Y.**

**Original application May 7, 1948, Serial No. 25,655. Divided and this application August 23, 1951, Serial No. 243,284**
**12 Claims. (Cl. 118—52)**

1. Means for extracting buckets and analogous articles from a galvanizing bath comprising a support, an extractor arm pivoted at one end to said support and having bucket gripping means at its opposite end, said arm being rotatable about its longitudinal axis, said arm having a lower position for gripping the upper projecting rim portion of a bucket partly projecting from a galvanizing bath, means for pivoting said arm



upwardly to raise the bucket from the bath and incline the same to drain the interior thereof, and means operable after the bucket has left the



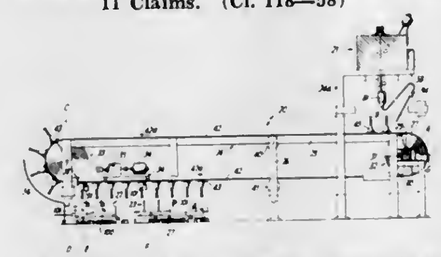
bath to rotate said arm about its own axis to rotate the bucket during hardening of the coating to produce uniform metal deposit and spangle.

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**2,646,773**
**APPARATUS FOR FORMING SETTLED COATINGS**

**J Kent Burton, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware**

**Application December 29, 1948, Serial No. 67,964**
**11 Claims. (Cl. 118—58)**



1. An apparatus for applying coatings to surfaces of objects, comprising a plurality of holders for retaining said objects, means for moving said holders continuously along a predetermined path at a substantially constant speed, means movable with said holders and disposed above said path for discharging a measured dose of coating forming ingredients into each of said objects while they are in motion and as they pass thereunder, and movable means for drying the coatings and objects positioned along said path and actuated by each object while in motion as they pass a predetermined point along said path.

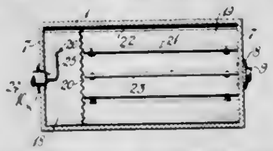
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**2,646,774**
**APPARATUS FOR OILING FABRICS PRIOR TO REDUCTION TO FIBER**

**Hugh J. Fairfield, Winnipeg, Manitoba, Canada**

**Application December 28, 1950, Serial No. 203,182**
**1 Claim. (Cl. 118—418)**

An apparatus for impregnating woven or knitted fabric material with textile lubricating oil preparatory to reduction of said material into fibres, said apparatus comprising in combination a supporting structure provided with a pair of spaced bearings, an elongated substantially horizontal container provided with a door in the side wall thereof and including first and second end walls, first and second coaxial stub shafts secured coaxially to the respective end walls and rotatably journalled in said bearings whereby said container is rotatably supported in said structure, a transverse partition screen mounted in said container adjacent the first end wall thereof and separating the interior of the container into a relatively small first chamber and a relatively large second chamber, said second chamber having said door in communication therewith and being adapted to receive material to be impregnated, a plurality of elongated tumbling bars secured lengthwise to the inner surface of said container in said second chamber and projecting inwardly therefrom, said tumbling bars extending longitudinally from said screen to said second end wall, said first stub shaft be-



ing provided with an axial bore, a stationary conduit extending through said bore into the first chamber and having an upwardly angulated inner end portion terminating in a tapered nozzle directed toward said screen, a coupling provided at the outer end of said conduit, a pipe connected to said coupling and communicating with a source of steam, a line also connected to said coupling and communicating with a source of textile lubricating oil under pressure, means for rotating said container alternately in opposite directions, and control means provided on said pipe and on said line for regulating the proportion of steam and oil whereby sufficient amounts of steam and oil are intermixed in said coupling and discharged through said nozzle and through said screen into fabric material tumbled by said bars in said second chamber to soften but not excessively dampen the fibres thereof.

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**2,646,775**
**PENCIL**

**John A. Vierling, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota**

**Application October 16, 1950, Serial No. 190,355**
**5 Claims. (Cl. 120—17)**

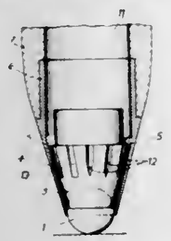


3. In a mechanical pencil, a casing, a rotatable projector-retractor lead holding mechanism com-

prising concentric, relatively rotatable, tubular parts and lead projecting and retracting members shiftable longitudinally by the relative rotation of said parts and including means for mounting said lead holding mechanism in said casing, a spiral sleeve mounted on the inner end of one of said relatively rotatable, tubular parts of said lead holding mechanism, a fixed toothed clutch member secured to said casing, and a floating toothed clutch coacting with said fixed clutch member and having a lug formed thereon in engagement with said spiral sleeve to rotate one of said tubular parts of said mechanism relative to the other and project a lead therefrom when said casing is pushed downwardly with respect to said lead holder and released.

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**2,646,776**
**BALL PEN**
**Walter Scholz, Stuttgart, Germany**
**Application June 16, 1951, Serial No. 231,927**
**In Germany March 27, 1950**
**1 Claim. (Cl. 120—42.4)**



Ball pen comprising a main body, a front end part, a conical member arranged to slide axially within said part, stops projecting from the inner wall of the front end part and limiting the inwardly directed movement of said member, a magnet disposed within the conical member, a ball seated at the apex of the conical member and held in abutting relationship to said member by the magnet, said member being provided at its outer surface both with grooves and channels to conduct ink, which grooves and channels extend lengthwise but do not extend to the ball seat, said channels allowing said stops to pass and allowing the conical member to be inserted and removed.

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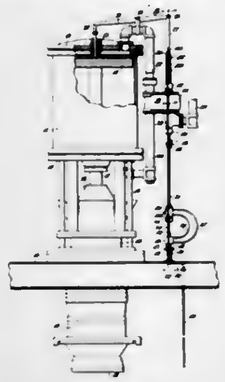
**2,646,777**
**FOUNTAIN PEN**
**Jorge S. Zarur, Monterrey, Mexico**
**Application December 14, 1951, Serial No. 261,671**
**In Mexico December 28, 1950**
**1 Claim. (Cl. 120—47)**



A fountain pen comprising a hollow stem forming a reservoir open at opposite ends, with a pen point at one end and an ink supply pump at the opposite end, said pump structure comprising a piston head having a reduced portion to form a space in the reservoir and formed with a central chamber with a duct which communicates at one end with the reservoir through openings formed in the head and communicates at its opposite end with the reservoir through the space formed by the reduced end, a check valve in the chamber, the piston having a stem formed with an inlet duct open at its inner end to communicate with the reservoir when the piston is advanced to supply ink, packing in the end of the reservoir to seal the inlet duct when the piston is at rest, a hollow cap fitted on the free end of the stem, said hollow cap having an inlet opening at its free end, a check valve in the hollow cap for closing the inlet opening, a spring on the stem between the end of the hollow stem and the hollow cap to normally project the reduced end of the piston against the packing to close the inner end of the duct in the stem, whereby when the end of the hollow cap is held in an ink receptacle, and the hollow stem is forced against the tension of the spring, ink will be sucked in the hollow cap, through the duct in the stem to the space between the head and the reservoir wall and thence through the duct in the head, the valves in the head and in the hollow cap being opened by the suction created by movement of the piston to permit passage of the ink.

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**2,646,778**
**FLUID OPERATED CONTROL SYSTEM**
**Cecil E. Webb, Norwood, Ohio, assignor to M. S. Bowne, Clearfield, Ky., as trustee**
**Application June 23, 1949, Serial No. 100,943**
**5 Claims. (Cl. 121—41)**



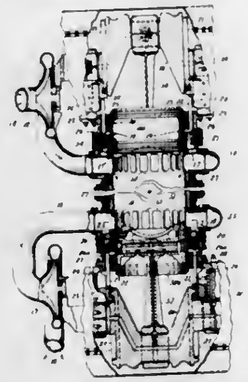
1. An operating mechanism for shifting the longitudinally movable stem of a reversing steam valve through the medium of a hydraulic servomotor apparatus, the steam valve having an intermediate closed position, the servo-motor apparatus having a hydraulic relay cylinder including a piston connected to the steam valve stem for moving the same in alternate directions from the intermediate position, a hydraulic pilot valve casing mounted on the steam valve stem, and a plunger within the pilot valve casing movable relative to the casing; said operating mechanism comprising a longitudinally shiftable control rod mounted in parallelism with the steam valve stem, a member extending laterally from the control rod connected to said movable pilot valve plunger for shifting the same relative to the valve casing directly in unison with the longitudinal movements of the control rod, a hand lever mounted upon a pivot point adjacent an end of the control rod, said hand lever having a lever extended from the pivot point and connected to the end of the control rod for shifting the control rod and valve plunger upon swinging movement of the hand lever, and yieldable means adapted to maintain the hand lever normally in an intermediate position, the pilot valve constituting a reversing valve having hydraulic pressure supply and exhaust conduits connected to



a source of hydraulic pressure and having flexible conduits extending from the casing to the opposite ends of the hydraulic relay cylinder arranged to supply hydraulic fluid to the opposite ends of the cylinder upon longitudinal movement of the pilot valve plunger relative to the valve casing, the valve plunger having an intermediate closed position for blocking the said flexible conduits whereby the hydraulic relay cylinder and steam valve stem are locked hydraulically in fixed position when the control lever is released and swung to said intermediate position by said yieldable means, the hydraulic pilot valve being operable to shift the steam valve stem in alternate directions from the intermediate position in response to swinging movements of the control lever in either direction from said intermediate position.

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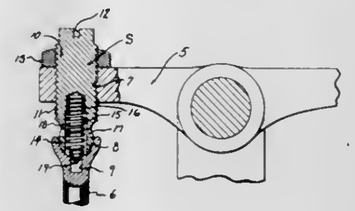
**2,646,779**
**SLEEVE VALVE MEANS FOR TWO-CYCLE RECIPROCATING ENGINES**
**Harlan N. Fiser, Pittsburgh, Pa.**
**Application November 10, 1951, Serial No. 255,825**
**11 Claims. (Cl. 123—51)**



1. A two cycle reciprocating engine comprising an elongated cylinder chamber, a pair of pistons in said chamber mounted for reciprocation in opposite ends thereof, a pair of substantially parallel crankshafts connected to and operated by each of said pistons, a series of exhaust ports spaced apart around the cylinder chamber adjacent one end thereof, said ports being closed by one of the pistons when the piston approaches the point of maximum entry into the cylinder chamber, a series of intake ports spaced apart around the cylinder chamber adjacent the end of the cylinder chamber opposite the exhaust ports, said ports being closed by the other of said pistons when said piston approaches the position of maximum entry into the cylinder chamber, positively driven means forcing a fuel and air mixture through the intake ports when the piston adjacent said ports is retracted from its position of maximum entry in the cylinder chamber, positively driven means exhausting the spent gases from the exhaust ports when the piston adjacent said ports is retracted, valve means reciprocable along the outer wall of the cylinder chamber alternately to open and close the exhaust ports, cam means on the crankshaft adjacent the exhaust port end of the cylinder advancing and retracting said valve means, valve means reciprocable along the outer wall of the cylinder chamber alternately to open and close the intake ports, cam means on the crankshaft adjacent the intake port end of the cylinder advancing and retracting said valve means, oil return means in both of said valve means and means receiving the oil from the oil return means and conveying it to the respective crankcases.

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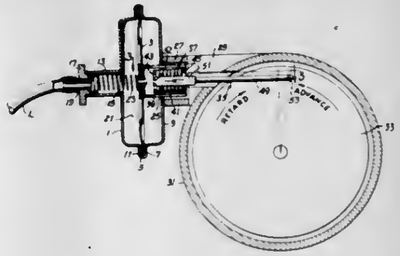
**2,646,780**
**VALVE TAPPET ADJUSTING SCREW**
**Harvey R. Bethke, Milwaukee, Wis., assignor to Edmund A. Kwiecinski, Milwaukee, Wis.**
**Application June 15, 1950, Serial No. 168,313**
**1 Claim. (Cl. 123—90)**



A valve tappet adjusting screw comprising a cylindrical body having a semi-spherical bearing head on its lower end for engaging in the rounded socket of a tappet rod, said head and body having an axially disposed bore closed at one end and opening out through the extreme lower end of said head, an expansion spring fitted in said bore having one end protruding beyond said head and provided with a tappet rod engaging, substantially solid, conically shaped bearing point, and said head having radial ports therein communicating with the bore and opening out on the outer surface of the head at a point adjacent the upper surface of the tappet rod when the adjusting screw bearing head is received in the rounded socket of the tappet rod and in vertical alignment therewith.

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**2,646,781**
**VACUUM SPARK CONTROL**
**Juan A. Doyen, Los Alamos, N. Mex.**
**Application February 8, 1951, Serial No. 210,067**
**8 Claims. (Cl. 123—117)**

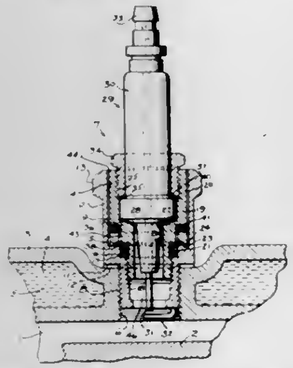


1. A vacuum spark control comprising an expansible chamber device having a movable member subject on one side to vacuum and on the other to atmospheric pressure, and a variable-length link coupled to the movable member on said other side thereof, said link comprising an evacuated bellows adapted to contract in length upon increase in atmospheric pressure and to expand in length upon decrease in atmospheric pressure, a rigid link element connected to one

end of the bellows and extending therefrom beyond the other end of the bellows to a connection with said movable member, and a second rigid link element connected to the said other end of the bellows and extending therefrom beyond the said one end of the bellows.

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**2,646,782**
**APPARATUS FOR CONTROLLING FLAME PROPAGATION IN INTERNAL-COMBUSTION ENGINES**
**Bernard C. Fisher, Jersey City, N. J.**
**Application September 21, 1948, Serial No. 50,348**
**8 Claims. (Cl. 123—169)**



6. A spark plug comprising a body member, means at one end of said member for attaching said member in the cylinder head of an internal combustion engine, electrodes at the same end of said member providing a spark gap, an insulating member extending axially through said body member, a conductor extending through said insulating member and forming one of said electrodes at its end, said body member having a cavity outside said insulating member communicating with the space adjacent said gap and on the opposite side of said gap from the combustion chamber of said engine, a duct leading from said cavity to the outside of said plug through said member but outside of said insulating member, and a one-way valve in said duct permitting gas to pass into said cavity through said duct but preventing passage in the other direction, the configuration and size of said cavity, the cross section of said duct, and the sensitiveness of said valve being such that stratification of the normal fuel mixture and the gas introduced through said duct will occur in said cavity during the compression stroke of said engine, so as to control the flame propagation in the combustion chamber thereof, said body member being formed of two telescoping parts having threaded engagement at the inner end of the spark plug, said parts being relatively displaced beyond said threaded portions to define a chamber for said valve and the threaded connection between said parts providing a tortuous, restricted portion of said duct between said valve chamber and said cavity.

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**2,646,783**
**SPARK PLUG**
**Leo Coughlin, Toronto, Ontario, Canada**
**Application June 9, 1950, Serial No. 167,064**
**1 Claim. (Cl. 123—169)**

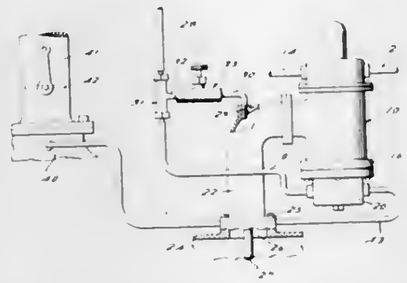
In a spark plug including a shell having a chamber therein closed at its top end and opening downwardly, an insulator removably secured in said shell above said chamber extending downwardly through said chamber and an electrode extending through said insulator and projecting from the lower end thereof, a heating coil located wholly within said chamber around said insulator and having its lower end grounded to said shell, a non-heating current conducting wire connected at its one end to the top end of said heating coil and forming a continuation thereof extending upwardly through said insulator and emerging above said shell, said current conducting wire upon emergence from said insulator extending along the surface of said insulator, said insulator being reduced abruptly in diameter



above said shell and continued endwise in a relatively short part parallel to the longitudinal axis of the insulator and to the upwardly extending exposed end of said current conduiting wire, that part of said insulator beyond said part parallel to the longitudinal axis of the insulator being tapered endwise, an annular contact member encircling said insulator over and in engagement with said exposed end of said wire, said annular contact member being movable into and out of engaging position with said exposed end of said wire over the tapered part of said insulator, and current conducting means connecting said annular contact member with the source of electric energy.

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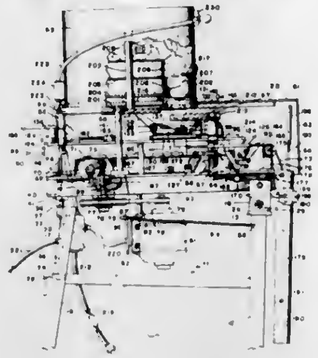
**2,646,784**
**APPARATUS FOR EXTRACTING OIL VAPORS FROM CRANKCASES FOR USE AS FUEL**
**John E. McKeever, Forsyth, Mont.**
**Application September 18, 1951, Serial No. 247,166**
**3 Claims. (Cl. 123—198)**



1. In combination with an internal combustion motor including a crankcase, a vacuum pump and a fuel intake; a pipe line having an end in communication with the interior of the crankcase to receive vapors therefrom, a connection between the other end of said pipe and the suction side of said pump, a second pipe line having an end connected with the exhaust side of the pump, and a coupling between the other end of the second pipe line and said fuel intake.



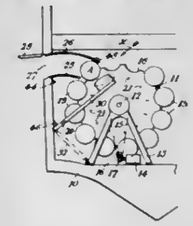
**2,646,785**
**BALL THROWING DEVICE**
**Martin Goldman, Jackson Heights, N. Y.**
**Application November 21, 1950, Serial No. 196,774**
**15 Claims. (Cl. 124—21)**



1. A ball pitching machine comprising a main supporting frame having front legs, wheels upon the front legs, rear legs the lower end of which rest upon the ground, a secondary supporting frame adjustably attached to the main frame, a ball magazine supported upon the secondary frame, a ball discharging opening in the bottom of the magazine, a rolling base plate reciprocally movable upon tracks on the secondary frame, a hook shaped coupler member pivoted upon the rolling base plate, fingers depending from and attached to the said rolling base plate, an endless chain belt upon sprockets rotating in bearings upon the secondary supporting frame, pins upon the endless chain belt engageable with fingers depending from the rolling base plate, a worm gear turnable with one of the sprockets, a worm engageable with the worm gear to rotate the sprocket and move the chain belt, a motor having a pulley and belt connection with the worm to drive the chain belt, a ratchet wheel upon the magazine and attached to a shaft extending upwardly into the magazine and rotatable therein, a drum in the magazine attached to the shaft and rotating with same, a multiplicity of tubular pockets attached to the drum and rotating with same, a pawl, pivotally mounted upon the reciprocally rolling base plate and engageable with the ratchet wheel upon the magazine, balls carried in the magazine and adapted to drop into the tubular pockets, each intermittent rotating movement of the drum bringing a ball into alignment with the ball discharging opening in the bottom of the magazine, an impeller unit upon the secondary supporting frame, the impeller unit comprising a pair of stretchable endless belts mounted upon the secondary supporting frame, a flexible strap disposed between and connected to the endless stretchable belts, impeller plates secured upon the flexible strap, a hook shaped coupler member upon the impeller plates and extending rearwardly to engage and lock with the hook shaped coupler member upon the rolling base plate and draw the impeller unit rearwardly to stretch the stretchable endless belts, a runway upon and moving with the rolling base plate to receive a ball when it drops through the ball discharging opening in the magazine, a second runway attached to the rolling base plate to which the ball drops from the first mentioned runway to the second runway after the impeller plates of the impeller unit have passed, in their rearward movement, the ball discharging opening in the magazine, the hooked coupler member upon the rolling base plate having a rearwardly extending lever arm, a pin attached to and extending laterally from the rear end of the extending lever arm, an adjustable cam upon the secondary frame engageable with the laterally extending pin to raise the lever arm and disengage the hooked end coupler members to release the impeller plates and project the ball from the machine, a weight vertically movable in a cylindrical housing attached to the secondary supporting frame adapted to draw the rolling base plate back to its starting point after the rolling base plate has completed its rearward movement, a conductor cable for supplying an electrical source to the motor of the ball throwing machine and switches for controlling the current supply.

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**2,646,786**
**CYLINDRICAL OBJECT EJECTING APPARATUS**
**Frank Henry Robertson, Carisbrooke, Isle-of-Wight, assignor to Saunders-Roe Limited, Osborne, England**
**Application October 11, 1950, Serial No. 189,616**
**In Great Britain October 12, 1949**
**7 Claims. (Cl. 124—26)**



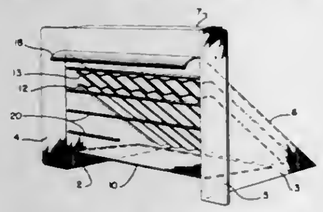
1. Ejecting apparatus comprising a rotatable drum having in its periphery a plurality of longitudinal recesses each adapted to receive an object, a retaining member in each recess for securing the object in said recess to the drum, power means for rotating the drum about its axis, to bring said objects in succession to a discharge position, pivotally mounted ejector mechanism disposed adjacent to said drum, a cocking device for normally retaining said ejector mechanism in cocked position, resilent means urging said ejector mechanism to move from its cocked position into engagement with the object at the discharge position, means operative on movement of the ejector mechanism from its cocked position towards the object at the discharge position for releasing the retaining member associated with said object, manually operable means for releasing the cocking device to free said ejecting mechanism for movement to engage said object and eject it radially from the drum, and means coacting with said ejector mechanism after ejection of said object for automatically returning it to cocked position.

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**2,646,787**
**HOT-AIR CIRCULATING ATTACHMENT FOR COOK STOVES**
**Omar Suttles, Los Angeles, Calif.**
**Application March 17, 1950, Serial No. 150,147**
**6 Claims. (Cl. 126—4)**

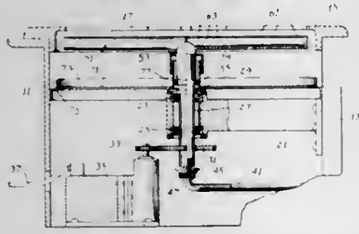
1. An air circulating device mountable in the oven of a cook stove, the oven having a bottom plate and passages through said plate near the side walls and the rear wall thereof; said device taking the form of a hood-shaped frame seatable

on the bottom plate of the oven within the passages thereof entirely to separate the space within the frame from the oven space without the frame, the frame including side walls and a forwardly inclined rear wall rising from the rear bottom corners of the side walls to the upper



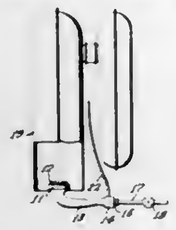
front corners thereof, flanges extending from the front edges of said walls to form a rim snugly fittable within the front opening of the oven, and means within the frame for directing the heat rising from the bottom plate of the oven rearwardly to and along the forwardly inclined inner surface of the frame rear wall.

**2,646,788**
**ROTARY GAS BURNER**
**Louis P. Locke, Victor, N. Y.**
**Application November 26, 1949, Serial No. 129,634**
**1 Claim. (Cl. 126—39)**



A domestic cooking stove for cooking with gas fuel, comprising a stationary frame having a support for a cooking utensil, a stationary gas supply pipe terminating in an upwardly directed discharge end beneath said support, a rotatably mounted tube extending substantially vertically, bearings operatively interposed between said frame and said tube for supporting said tube in rotatable relation to said frame, the lower end of said tube loosely embracing the upper end of said supply pipe in spaced and non-contacting relation thereto to provide a free space for entrance of air between said supply pipe and said tube, a motor for turning said tube relatively slowly about its substantially vertical axis, a burner structure having at least two horizontal and approximately radial tubular arms with holes in their upper sides for escape of gas and a centrally disposed downwardly extending neck tube detachably slidable onto the upper end of said vertical tube to support said burner structure from said vertical tube and to guide the flow of gas from said vertical tube into said horizontal arms of said burner structure, said burner structure when in normal operative position on said tube being located beneath said support so that the burning of gas issuing from said holes is adapted to supply heat to a cooking utensil resting on said support, said burner structure turning with said tube so that the heat will oe supplied to successively different parts of the bottom of said cooking utensil, a tray extending approximately horizontally at an elevation below said radial arms, said tray having a central opening through which said rotatable tube passes freely and having an upstanding collar making a tight joint with said tray at its bottom and spaced radially from said rotatable tube, and an inverted cup-shaped collar tightly joined at its upper end to said neck tube at an elevation above the top of said first mentioned collar and extending downwardly externally of said first mentioned collar in overlapping and radially spaced relation thereto, to guard against flow of spilled material downwardly along said neck tube and vertical tube and into said bearings.

**2,646,789**
**FLASHBACK PREVENTION IN GAS BURNERS**
**Albert J. Lampert, Walnut, Calif., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California**
**Application October 17, 1950, Serial No. 190,455**
**5 Claims. (Cl. 126—85)**

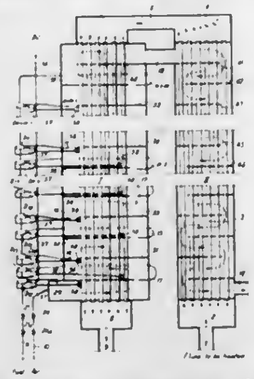


1. In a gas burner including a burner member having outlet port means, conduit means communicating with said burner member adapted to feed gas thereto, an apertured aspirator housing formed on the end of said conduit means, a nozzle extending into said housing and adapted to be connected to a source of combustion gas, whereby to draw in combustion air through the housing apertures as it flows to said burner member, and heater means positioned to be heated by gas burned at said burner member, the combination of a flashback prevention tube communicating at one end with said housing adjacent the mouth of said nozzle and extending upwardly in heat receiving disposition with respect to said heater means, the upper end of said tube being open to atmosphere.

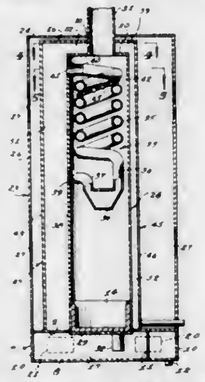
**2,646,790**
**PROGRESSIVE FUEL COMBUSTION FLUID HEATING APPARATUS AND CONTROL MEANS THEREFOR**
**Léonce M. Reygagne, Decazeville, France, assignor to Societe Anonyme de Commentry-Fourchambault et Decazeville, Paris, France, a company of France**
**Application January 31, 1949, Serial No. 73,853**
**In France February 5, 1948**
**3 Claims. (Cl. 126—99)**

1. In a heat apparatus including a gas-tight wall delimiting an elongated closed chamber wherein a fuel is burnt in a combustive substance, the combination comprising: means adapted to introduce in bulk either of said substances through said wall at a predetermined point of said chamber; means providing an outlet for products of combustion from said chamber at a point spaced along the length of the chamber from the first-mentioned point; pipe means conducting the other substance; a plurality of spaced channels provided along said chamber and each connected to said pipe means, to supply said last named substance to said chamber by successive fractions from said pipe means, each of said channels passing through said wall and opening directly into said chamber at points disposed in a series arranged longitudinally of said chamber between the first and the second mentioned points, whereby separate combustions take place in successive zones of said chamber near the exit of the various channels; distributors arranged at the connection points between said pipe means and each of said channels, said distributors having each a passage connected to the upstream part of said pipe means and ports connected respectively to the downstream part of said pipe means and to the corresponding channel and a movable member controlling the cross sections of said ports and adapted to vary said cross sections respectively in reverse relation, and temperature sensitive devices distributed along said chamber each operatively connected to the movable member of one of said distributors for individual control of the same.



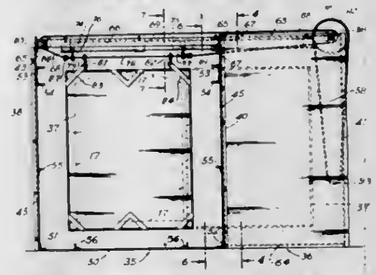


**2,646,791**
**CIRCULATING AIR HEATING FURNACE WITH INTERNAL AIR HEATING CONDUIT**
**Earl F. Fromme, Kirksville, Mo.**
**Application August 1, 1950, Serial No. 177,099**
**3 Claims. (Cl. 126—110)**



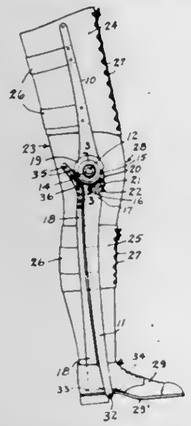
1. In an air-circulating heater, a closed hollow base, partition means dividing the interior of said base into a cool air chamber and a heated air chamber, air inlet means for said cool air chamber, outlet means for said heated air chamber, an inner tubular heating barrel mounted upon said base and having its lower end closed by a portion on said base, a burner within the lower end of said heating barrel, a restricted combustion air inlet leading into the lower end of said inner barrel, said inner barrel having a closed upper end, a restricted flue pipe leading from the upper end of said inner barrel, an outer barrel having a lower end mounted upon and closed by said base, said outer barrel spacedly surrounding said inner barrel and having a closed upper end spaced above the upper end of said inner barrel, the space between said inner and outer barrels forming an air heating space, a baffle extending from said base to the closed upper end of the outer barrel and reaching across the space between the inner and outer barrels on one side thereof only whereby the air heating space provides a U-shaped passageway extending around the inner barrel, an air heating conduit within said inner barrel and located above and in heat exchange relation to said burner, said conduit having an end leading from the inner barrel into said space at one side of said baffle and having another end opening into said space at the opposite side of said baffle, means providing communication between said heated air chamber and said air heating space at one side of and adjacent said baffle, a blower having an intake communicating with said cool air chamber and an outlet communicating with said air heating space at the other side of and adjacent the baffle whereby cool air is indrawn into said cool air chamber through said inlet means and is discharged into said space to circulate around the inner and outer barrels and move from said hot air space into the hot air chamber of the base and discharge therefrom through said outlet means.

**2,646,792**
**HORIZONTALLY MOVABLE DAMPER**
**Charles Hennig, Freeport, N. Y., assignor to Morse Boulger Destructor Company, New York, N. Y., a corporation of Delaware**
**Application January 17, 1951, Serial No. 206,369**
**6 Claims. (Cl. 126—285)**



1. In a flue, an enclosed bay to the side of said flue, a doorway between said flue and bay, a trolley track mounted in and enclosed by said flue and bay and extending through said doorway, a plurality of wheeled trolleys mounted on said track, a bolt depending from each of said trolleys, an elongate plate secured to said bolts, a damper suspended from said plate, and means for rolling said trolleys on said track, including a first grooved sheave rotatably mounted in said flue and a second grooved sheave rotatably mounted in said bay, and a chain trained from said trolley over both sheaves and having one of its ends secured to one end of said plate and its other end to the other end of said plate back to said trolley, links of said chain being received in the grooves of said sheaves, and mechanism for rotating said second sheave.

**2,646,793**
**SELF-LOCKING AND UNLOCKING PIVOT JOINT FOR LEG BRACES**
**Edward Swiech and Venans A. Swiech, Seattle, Wash.**
**Application April 13, 1950, Serial No. 155,743**
**3 Claims. (Cl. 128—80)**

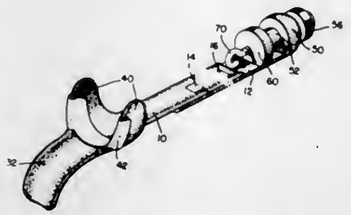


2. A weight controlled self locking leg brace comprising an upper and a lower brace member adapted to be worn on the leg and having two adjoining end portions which are pivotally connected together; means adapted to pivotally connect the lower end portion of the lower brace member with the sole portion of a shoe at the location of the heel; means adapted to secure the respective brace members to a leg above and below the knee respectively with the pivotal connection of said brace members coinciding with the knee joint; a drum rigid with one of said brace members and positioned coaxially of the pivot which connects said two brace members; a helical spring type resilient band extending around said drum and having one end portion thereof secured to the brace member which is angularly movable relative to said drum; a tension member connected with the other end portion of said band; and a tension exerting member connected with said tension member and adapted to be positioned in the bottom of a shoe for engagement with the heel portion of a foot, whereby a pull will be exerted on said tension member to frictionally apply said band to said drum and thereby resist relative angular movement of said two brace members in one direction when weight is supported on said tension exerting member.

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**2,646,794**
**ADJUSTABLE SURGICAL FINGER SPLINT**
**Adrian D. Baer, Seattle, Wash.**
**Application October 9, 1951, Serial No. 250,523**
**5 Claims. (Cl. 128—85)**

1. An adjustable finger splint, comprising: first and second elongated splint members, said splint members having their inner end portions juxtaposed and being slidable longitudinally of each other whereby they form an extensible unit; adjustable means securing said splint members together; one side of said first splint member forming a rest to accommodate an injured finger; said first splint member having means for securing the same to such injured finger adjacent to the knuckle joint; the outer end of said second splint member having a large boss extending laterally to lie at the end of such injured finger; said boss having an opening therethrough and a rod shaped traveler positioned in said opening to move longitudinally of said splint members, said traveler having a flange on its inner end having an edge abutting the adjacent portion of said second splint member and preventing rotation of



said traveler; said traveler having a threaded bore and screw eye positioned in said bore to which tension means can be fastened for traction of such injured finger; and the outer end of said traveler being threaded and a nut positioned on the same and abutting said boss for moving said traveler longitudinally of said splint members.

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**2,646,795**
**CORN CUSHION**
**William M. Scholl, Chicago, Ill.**
**Application December 21, 1950, Serial No. 202,036**
**5 Claims. (Cl. 128—153)**



1. In a corn pad, a cushioning member of foam latex dome shaped, means to hold said member on the foot of a user, a cover over said cushioning member, said member having an opening therein to receive an affliction, and said cover having an opening therein of less size than the opening in said member but aligned therewith.

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**2,646,796**
**SELF-BONDING TUBULAR BANDAGE**
**William M. Scholl, Chicago, Ill.**
**Application February 2, 1950, Serial No. 142,025**
**8 Claims. (Cl. 128—157)**



3. A bandage comprising a seamless tube of self-adhering material non-adhering to the human body.



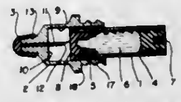
**2,646,797**
**STRETCHABLE STOCKING OR BANDAGE**
**William M. Scholl, Chicago, Ill.**
**Application February 2, 1950, Serial No. 142,026**
**7 Claims. (Cl. 128—165)**



1. A tubular bandaging device, including an inner layer of foam latex, and an outer layer of impervious latex sheet having numerous apertures therein.

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**2,646,798**
**CARTRIDGE SYRINGE**
**Frank E. Brown, Burbank, Calif.**
**Application September 21, 1950, Serial No. 186,024**
**7 Claims. (Cl. 128—218)**



2. A cap-cartridge unit for assembly with a syringe body to provide a cartridge syringe, essentially comprising: (A) a cap, in the form of a tubular body walled at one end, adapted to be rigidly connected with a syringe body, and having a passage through the walled end to the inside of the tubular body; (B) a medicament-containing cartridge having a slidable stopper at one end and a pierceable stopper at the other, the latter end being received in and telescopically connected with the tubular body of the cap; and (C) a removable cover closing said passage; the connection between the cartridge and cap being such that movement of the cartridge away from the walled end of the cap provides a reduced pressure chamber therebetween.

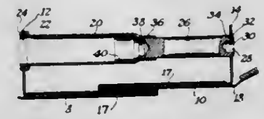
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**2,646,799**
**BLOOD LANCET**
**George W. Jacoby, Jr., Wooster, Ohio**
**Application February 14, 1951, Serial No. 210,874**
**7 Claims. (Cl. 128—314)**



3. A surgical instrument for piercing the skin comprising a frame having a pair of jaws shiftably mounted thereon, knife means carried for movement by the frame, and a notch in one of the jaws, said knife being movable through said notch whereby the skin retained by the said jaws is punctured when the knife is moved through said notch.

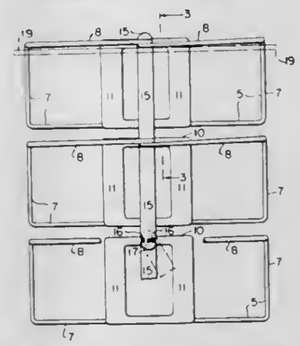
**2,646,800**
**EXPANSIBLE POST BINDER**
**Fred A. Ratcliffe, Rochester, Norbert A. Ryan, Greece, and George E. Ford, Brighton, N. Y.; said Ford assignor to Qualitrol Corporation, East Rochester, N. Y., a corporation of New York; said Ratcliffe and said Ryan assignors to The Lawyer's Co-Operative Publishing Company, Rochester, N. Y., a corporation of New York**
**Application June 9, 1950, Serial No. 166,998**
**1 Claim. (Cl. 129—13)**



In a loose leaf binder, the combination with a pair of overlapping, rigid, flanged back plates having alined openings in the flanges, of an impaling spindle embodying a tubular post secured in the opening in one flange, the base end of such post being of uniform internal diameter through to the outer side of its supporting flange and being provided with an outwardly folded bead abutting the flange on the inner side thereof and a tip riveted against the flange on the outer side thereof, which free end of the post is reduced to a lesser cylindrical diameter furnishing a sliding bearing of substantial extent, and a second cooperating post slidable telescopically in the first and having its base reduced in diameter and secured in the opening of the other flange with its tip riveted against the outer side of the latter, the body portion of said second post consisting of an integral, solid rod having an axial bore in its free end forming a cavity for the reception of a riveting anvil the cylindrical walls of which bore are expanded to provide an additional sliding bearing of substantial extent within the larger diameter of the first mentioned post.

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**2,646,801**
**FILING UNIT**
**Coleman R. Chamberlin, Thompson Ridge, N. Y.**
**Application March 24, 1950, Serial No. 151,697**
**1 Claim. (Cl. 129—16)**

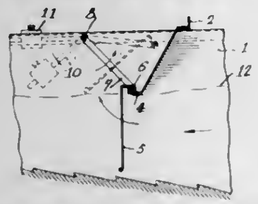


An independent file holder unit comprising a plurality of spacer elements consisting of an open square horizontal platform to which are rigidly secured at its back section a pair of vertical wire rectangular frames the inside vertical portions of which cross at the upper sections and the lower ends of which pass below the parts secured to said platform, the lower portion of said outer

sides of said wire frames being turned horizontally in the plane of said platform, a flat bar having hinged sections and a plurality of pairs of parallel cut outs on opposite sides thereof adapted to be engaged by the lower inside portions of said vertical wire rectangular frames to hold said spacer elements in vertical position on said flat bar.

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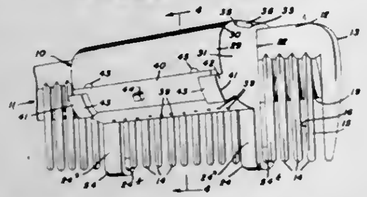
**2,646,802**
**FLOW APRON FOR THRESHERS**
**Amedee Dion, Ste-Therese de Blainville, Quebec, Canada, assignor to Dion Freres Inc., Ste-Therese de Blainville, Quebec, Canada**
**Application February 10, 1951, Serial No. 210,393**
**3 Claims. (Cl. 130—24)**



1. In a threshing machine, a body frame structure, a transverse supporting plate rigidly suspended therefrom, a trough formed at the lower edge of said plate, an apron loosely suspended from said trough, arms secured to the upper edge of said apron and extending angularly upwardly therefrom, stub shafts journalled in the sides of said structure and displaced vertically and horizontally from said apron, said shafts being rigidly secured to the upper ends of said arms, whereby said apron is movable about an outside center, a lever rigidly secured to one of said shafts, and a counterweight on said lever.

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**2,646,803**
**FOUNTAIN ATTACHMENT FOR COMBS**
**Benedetti Di Zazzo, Syracuse, N. Y.**
**Application January 19, 1951, Serial No. 206,854**
**10 Claims. (Cl. 132—13)**

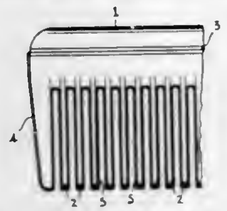


3. An improved fountain attachment for a hair comb comprising a reservoir for a liquid and having outlet openings for the liquid, and means for detachably mounting the reservoir on the comb comprising a clamping member on the reservoir and having a portion spaced from the reservoir and cooperating therewith to frictionally grip the back of the comb, and at least one hook for engaging over the lower end portions of the teeth of the comb.

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**2,646,804**
**DISPOSABLE SHEATH FOR HAIR COMBS**
**Albert Newman, Cleveland Heights, Ohio, assignor of twenty-five per cent to William Isler, Cleveland, Ohio**
**Application September 19, 1951, Serial No. 247,313**
**2 Claims. (Cl. 132—19)**

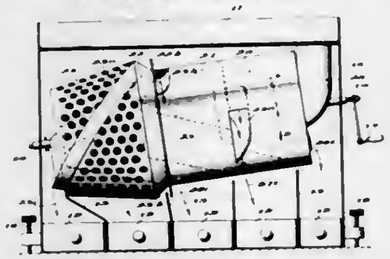
2. A disposable sheath for combs, said sheath formed of a thin, flexible, plastic material and comprising a body portion and a multiplicity of longitudinally-spaced pockets extending from said body portion and adapted to snugly receive



the teeth of a comb, said body portion being provided with inwardly-extending resilient flanges at the upper edge thereof.

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**2,646,805**
**ARTICLE SORTING DEVICE**
**Charles F. Anderson, Decorah, Iowa**
**Application July 29, 1949, Serial No. 107,470**
**19 Claims. (Cl. 133—3)**



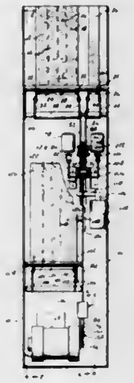
1. An article sorting device comprising a generally conical drum mounted for rotation on an inclined axis, said drum being foraminous and comprising at least substantially one turn of generally spiral cross-section and a baffle strip interposed between juxtaposed portions thereof, said baffle strip winding helically about said axis, whereby on rotation of the drum in the direction to move articles therein outwardly of its spiral cross-section, said articles abut against said baffle strip and are urged thereby toward one end of the drum, while on rotation of the drum in the opposite direction said articles cascade and are not moved longitudinally of the drum by said winding baffle strip.

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**2,646,806**
**CHANGE DEVICE FOR ELECTRICAL COIN REGISTERS**
**Christian Gabrielsen, Whippany, N. J., assignor to Rowe Manufacturing Co., Inc., Whippany, N. J., a corporation of New York**
**Application June 3, 1950, Serial No. 166,044**
**4 Claims. (Cl. 133—4)**

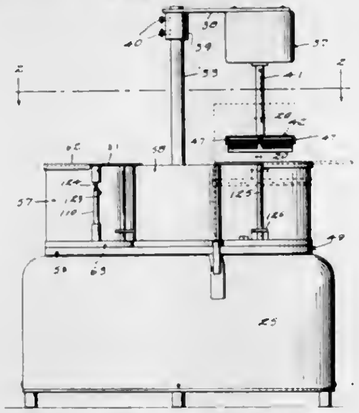
1. A change device including in combination an electric motor, means for cyclically energizing the motor, an actuating member driven by the motor during each cycle of its operation, a coin tube for holding coins to be dispensed as change, a dispensing member for dispensing coins from the coin tube, means for operating the dispensing member, a coupling member having one end thereof connected to the dispensing member operating means, a spring biasing the coupling member into operative engagement with the actuating member, a latch normally holding the coupling member out of operative engagement with the actuating member against the action of the spring, electrical means for releasing the latch when energized whereby to couple the dispensing member to the actuating member through the coupling member to dispense coins during the initial part of the cyclic movement of the actuating member and coacting camming means carried by the coupling member and the actuating member for camming the coupling member to its latched position during the terminal part of the cyclic movement of the actuating member.





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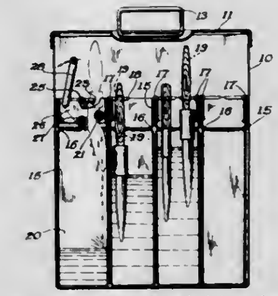
**2,646,807**
**WATCH CLEANING MACHINE**
**Theodore L. Martin, Greenville, Ohio**
**Application May 13, 1947, Serial No. 747,713**
**11 Claims. (Cl. 134—58)**



1. In a cleaning macnine comprising a base, a rotatable table carried by said base having a series of downwardly opening apertures formed therein equidistantly from the axis of rotation of the table, a perforate article holder disposed above the table, means for rotating said holder at a given elevation, a plurality of spaced receptacles carried by said table having dependent means slidably extending through said apertures, said article holder being directly above a point in the orbit of rotation of said receptacles, means for rotating the table to successively align the receptacles with said holder, elevating means engageable with said dependent means to successively elevate the receptacles to encompass said holder, said elevating means having a cammed lever engageable with each dependent means, said cam means engaging said lever having a plurality of positions for rocking said lever to a full elevated position to immerse the holder in fluid carried by a receptacle for a given period and to partially lower said receptacle for rotation of the holder within the receptacle above the fluid therein, and control means for periodic operation of said elevating means coordinated with rotation of the holder, and cover means for said receptacles having hinge means intermittently operative from cover closed to cover open positions as each receptacle is moved into and out of alignment with said holder, said hinge means having rotatable pivot members selectively engageable with said elevating means for limited rotation of said pivot members.

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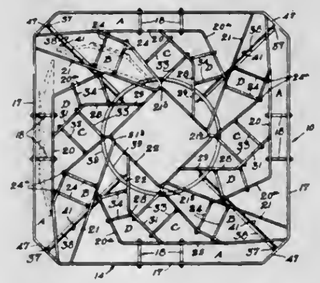
**2,646,808**
**PAINTBRUSH CONTAINER HAVING CLEANING FLUID THEREIN**
**Allen W. Yenne, Wooster, Ohio**
**Application May 17, 1949, Serial No. 93,723**
**3 Claims. (Cl. 134—92)**



1. A container for used paint brushes comprising a carrying case, a hinged lid thereon, means comprising a deformable strip mounted on the lid for sealing the joint between the lid and the body of the carrying case, a plurality of removable open-ended tanks in said case adapted to contain a fluid, a wringer for squeezing fluid from the bristles in a brush incorporated in one of said tanks and removable clips each comprising a U-shaped plate engaged with the upper edges of said tanks for the suspension of brushes in the fluid.

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**2,646,809**
**DISHRACK**
**Lester E. Van Hise, Los Angeles, Calif.**
**Application July 25, 1950, Serial No. 175,774**
**5 Claims. (Cl. 134—182)**



1. A rack for dishwashing machines constructed from lengths of narrow metal arranged to

form an open framework, comprising: a section having an upper horizontal peripheral member with sides extended at right angles to one another, a lower horizontal peripheral member, a central frame member arranged within said lower peripheral member, a narrow metal strip extending parallel to each side of said lower peripheral member, vertical members spacing said upper peripheral member from said lower peripheral member, a plurality of strips extending angularly between said strips parallel to the lower peripheral member and the central frame member and defining a plurality of compartments adapted to receive dishes and plates of different sizes, the dishes and plates of largest size being positioned between the lower peripheral member and the strips extending parallel thereto with their faces turned inwardly, dishes and plates and cups being positioned in the other compartments with their faces at an angle to the largest dishes and plates, and U-shaped members extending below the level of the lower peripheral member and having their arms secured to contiguous members defining said compartments to form supports for the lower edges of the dishes and plates in said compartments.

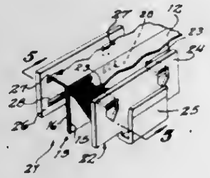
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2,646,810

## CANOPY CONSTRUCTION

Theodore T. Danciart, Alhambra, Calif., assignor to State Mfg. Co., Los Angeles, Calif., a corporation of California

Application August 22, 1950, Serial No. 180,875
1 Claim. (Cl. 135—5)



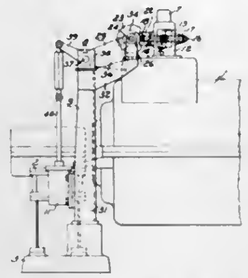
A fastener for attaching a canvas canopy to a frame member, comprising: a rectangular backing plate having a pair of longitudinally aligned, spaced rectangular slots therein, the longer edges of which extend in parallel relationship to the longer edges of said backing plate, a complementary rectangular attaching plate having a pair of pointed prongs integral therewith and extending laterally from the plane thereof, both of said prongs initially lying in a plane which is generally normal to the plane of said attaching plate and parallel to the longer edges thereof, said prongs being positioned to be received in said slots in said backing plate and to be folded against said backing plate to retain said plates in assembled relationship, and a tongue integral with said attaching plate, said tongue having a shank portion extending from one of the longer edges of said attaching plate in a direction opposite to the direction of said prongs and in generally parallel relationship to the plane in which said prongs initially lie, and said tongue terminating in an end portion which is laterally spaced from and generally parallel to said attaching plate, whereby application of force to said tongue in a direction at a right angle to the lower edges of said plates will result in distribution of the stresses applied to canvas positioned between said plates and pierced by said prongs.

2,646,811

## ELASTIC FLUID TURBINE

Clarence E. Kenney, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 13, 1949, Serial No. 110,180
8 Claims. (Cl. 137—16)



1. In an elastic fluid turbine, the combination comprising: a turbine casing; a base supporting said casing; valve means carried by said casing for controlling the admission of motive fluid thereto; camshaft means having at least a portion rotatably mounted on said casing in operating relation with said valve means for causing valve opening and closing movement upon rotation thereof; supporting means cooperating with said base for supporting at least one end of said camshaft means; and operating means cooperating with said base for rotating said at least one end of said camshaft means.

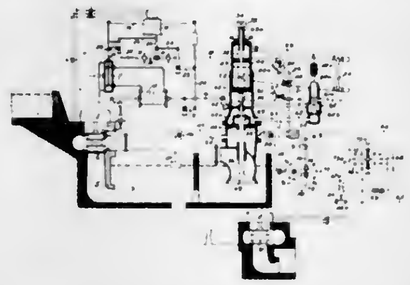
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2,646,812

## HYDRAULIC TURBINE GOVERNING SYSTEM

William J. Rheingans and Beverly R. Nichols, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application November 16, 1948, Serial No. 60,336
17 Claims. (Cl. 137—25)



1. In a control system for a hydraulic turbine for supplying power to a variable load and having gates for controlling flow of water to said turbine; a servomotor for operating said gates; a governor responsive to the speed of said turbine for controlling said servomotor; gate limiting means for limiting opening of said gates by said servomotor to a desired amount regardless of gate opening action of said governor; bypass means for bypassing water around said turbine; bypass control means for controlling opening and closing said bypass means; means for adjusting said gate limiting means to permit increase of gate opening in response to action of said governor; means so connecting said adjusting means to said bypass control means that the aforesaid adjustment tends to cause opening of said bypass; and means so connecting said servomotor to said bypass control means that gate opening movement of said servomotor neutralizes the aforesaid tendency.



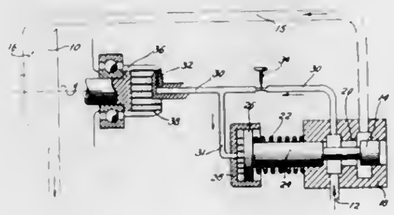
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2,646,813

## SPEED CONTROL FOR ROTARY MOTORS

Paul M. Mueller, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Application February 17, 1949, Serial No. 77,031
3 Claims. (Cl. 137—58)



1. A speed control for rotary motors comprising in combination, a fluid admitting valve, a member rotating with said motor having integral axially extended flexible portions, the radial flexing of said portions varying with the motor speed, a conduit, means to admit a limited amount of fluid therethrough to a jet orifice adjacent and within said flexible portions, whereby escape of fluid from said conduit and resulting pressure therein varies with the flexing of said portions, and means to vary the position of said valve by said variations of pressure.

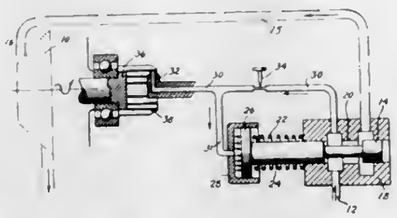
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2,646,814

## SPEED GOVERNOR FOR FLUID OPERATED ROTARY MOTORS

Paul M. Mueller, West Hartford, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey

Original application February 17, 1949, Serial No. 77,031. Divided and this application May 19, 1950, Serial No. 162,987
4 Claims. (Cl. 137—58)



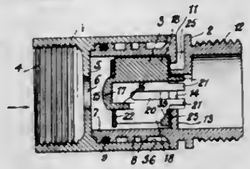
1. Means to vary the nozzle opening of a jet comprising in combination, a nozzle having an orifice, a rotatable member mounted for rotation on an axis normal to the axis of said nozzle and having a cylindrical portion slotted to form flexible extensions, said extensions being adjacent and in flow restricting relationship with the orifice of said nozzle, whereby when said member is rotated at variable speeds said extensions are flexed toward and from said orifice to vary the escape of fluid from said jet through said nozzle.

2,646,815

## VACUUM BREAKER FOR WATER SUPPLY SYSTEMS

Leon C. Leventhal, Ossining, N. Y.

Application June 1, 1951, Serial No. 229,504
2 Claims. (Cl. 137—218)



1. A vacuum breaker for water supply lines comprising, a tubular housing having a wall within it, said wall having a central opening, an inner sleeve fitted within the housing, said inner sleeve having a wall within it, said wall having a central opening, a baffle formed in the inner sleeve, said baffle having a vent extending through it and establishing communication between the interior of the sleeve and atmosphere, a valve slidably mounted within the sleeve and confined in the sleeve between the wall of the inner sleeve and the wall of the housing, said valve having a rounded end portion for entry in the opening of the inner sleeve of the housing, said valve having spaced fingers at its opposite end fitted and movable within the opening in the wall of the inner sleeve, the valve having a plurality of spaced radial fins located between its rounded end and the fingers, the valve having a hollow interior and provided with elongated slots located between the fins and establishing communication between the interior of the inner sleeve and the interior of the valve, the interior of the valve being closed at the end provided with the rounded portion and open at the end provided with the fingers.

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2,646,816

## BACKFLOW PREVENTION DEVICE

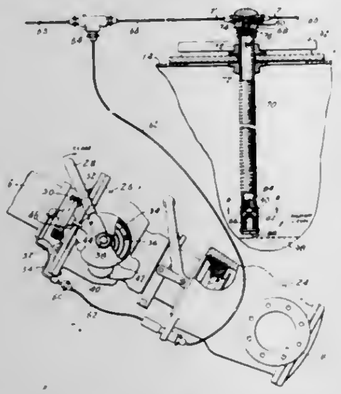
Donald G. Griswold, Alhambra, Calif.

Application October 5, 1944, Serial No. 557,345
15 Claims. (Cl. 137—218)



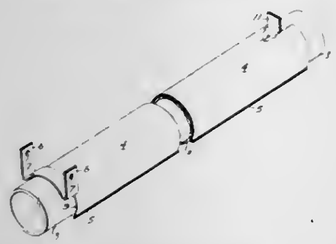
9. A back-flow prevention unit having a supply end and a service end, comprising: two automatic check valves; a conduit interconnecting said check valves, said check valves being arranged in series to normally allow flow only in a direction from said supply end toward said service end; a fluid pressure operated bleeder valve connected with said conduit for effecting the draining of liquid therefrom, said bleeder valve normally being held closed by fluid under pressure and being biased to open position by pressure in said conduit in the absence of said closing pressure; a pilot valve controlling the supply of operating fluid to and the exhaust of operating fluid from said bleeder valve; means for actuating said pilot valve, said means being pressure-responsive and connected with said unit so that it is operated by the differential pressure across the automatic check valve at the supply end of said unit; and means yieldably opposing actuation of said last-mentioned means and delaying opening of said bleeder valve until the difference in pressures is a given predetermined amount.

2,646,817
**AUTOMATIC SHUTOFF FOR TANK FILLING**
**Thomas O. Cox, Burbank, Homer C. Rankin, North Hollywood, and Samuel A. Trott, Long Beach, Calif., assignors to Sheffield Instrument Company, Burbank, Calif., a corporation of California**
**Application July 10, 1950, Serial No. 172,894**
**4 Claims. (Cl. 137—235)**



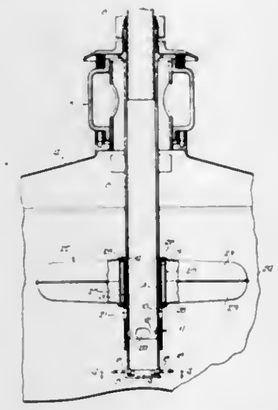
1. An automatic shut-off for tank filling, including a supply line, a manually controlled valve including a handle in the line, means for mechanically holding the valve in open position, means governed by pressure inside the tank to control said mechanical means, said mechanical control for the valve including a pressure operated diaphragm, a pin operated by the diaphragm, and a plate rotatable with the valve and notches in the periphery of the plate for cooperation with the end of the pin.

2,646,818
**PROTECTING DEVICE FOR TUBULAR CONDUITS AND THE LIKE**
**Henry S. Bimpson, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.**
**Application June 30, 1951, Serial No. 234,633**
**3 Claims. (Cl. 137—377)**



1. Means for protecting at least a portion of the surface of a longitudinally extending tubular conduit in spaced relation to anchoring means, said protecting means comprising a plurality of sleeves disposed serially in end to end engagement and extending longitudinally of said conduit, each of said sleeves having a C-shaped transverse cross section and being in telescopic engagement with said conduit, at least one of said sleeves having outwardly extending tab means for securing said sleeve to said anchoring means to prevent movement of said sleeve relative to the tubular conduit; and each of said sleeves having means engaging the next adjacent sleeve to prevent telescoping of sleeves longitudinally of said conduit to avoid reducing the length of the tubular conduit protected by said sleeves.

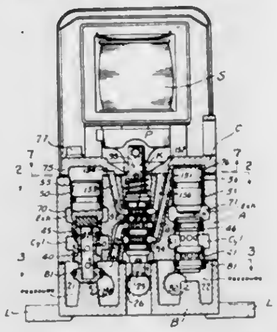
2,646,819
**FLOAT-CONTROLLED VALVE**
**Adolph J. Lippold, Milwaukee, Wis., assignor to Cherry-Burrell Corporation, Chicago, Ill., a corporation**
**Application October 21, 1947, Serial No. 781,194**
**3 Claims. (Cl. 137—432)**



2. In a valve the combination comprising a supply pipe having at one end a valve body, a closure for the free end of said valve body, a lateral port in the wall of said body, a substantially cylindrical bearing surface on the outer face of said valve body, a substantially cylindrical valve sleeve having an inner bearing surface complementary to the bearing surface on said valve body and in sliding contact therewith, a lateral port in the wall of said valve sleeve to afford communication with the interior of said valve body when at least a portion of the ports in said valve body and said valve sleeve are in alignment, means for limiting the axial sliding motion of said valve sleeve in a direction away from the closed end of said valve body, a groove in the inner bearing surface of said valve sleeve remote from the ported portions thereof, float means carried by said valve sleeve for unitary movement therewith and having a substantially cylindrical inner wall defining an opening through said float means, said float means having been secured to said valve sleeve in a manner tending to distort said valve sleeve, and releasable means for securing said valve sleeve and associated float against removal from said valve body, said float means including a substantially cylindrical inner wall substantially equal in length to the width of said groove and operatively supported on said valve sleeve opposite said groove, relatively narrow adapter rings being positioned intermediate the ends of said substantially cylindrical inner wall and the outer surface of said valve sleeve above and below that portion of said valve sleeve wherein said groove is located and joined to the adjacent surfaces of said valve sleeve and cylindrical inner wall.



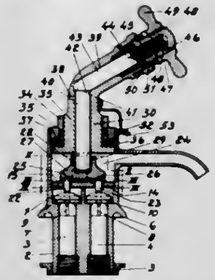
2,646,820
**CONTROL VALVE**
**Roy D. McLeod, Detroit, Mich., assignor of two-thirds to William Carls, Milford, Mich., and one-third to Sophia Louise Brussel and Detroit Trust Company, coexecutors of Fred H. Brussel, deceased**
**Application December 7, 1946, Serial No. 714,735**
**5 Claims. (Cl. 137—623)**



1. A valve and housing combination comprising a mounting base to which all pipe connections will be made, said base comprising a block having three spaced chambers extending across one side of the block defined by septum walls extending transversely of the block, and accessible for pipe connections from a side wall and bottom wall of the block, a pressure chamber formed in the remainder of the block accessible for pipe connections from side walls and the bottom of the block, a four-way control valve housing associated with said base comprising a body having a T-shaped exhaust chamber opening at the stem of the T to the central chamber of the three spaced chambers of the base, cylinder chambers formed below the bar of the T-shaped chamber on either side of the stem lying in registration with the end two chambers of the three spaced chambers in the base, valve bores in said body on either side thereof and ports formed in the walls of said exhaust chamber and said cylinder chambers to connect to said valve bores, said valve bores extending to said pressure chamber in the base block, and means removably connecting said block and housing in air-tight relation whereby cylindrical valve means in said bores may selectively connect said cylinder and exhaust chambers and said pressure and cylinder chambers.

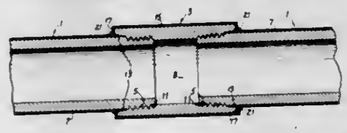
2,646,821
**MIXING VALVE**
**Fredrik Amandus Johansson, Nockeby, Stockholm, and Alfred Käll, Appelviken, Stockholm, Sweden**
**Application July 17, 1947, Serial No. 761,506**
**In Sweden February 3, 1942**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires February 3, 1962**
**5 Claims. (Cl. 137—637.4)**

1. A mixing valve for controlling the total flow and proportioning of two liquids, the valve comprising, in combination, a valve casing having a mixing chamber therein, said mixing chamber having two inlets thereto, one associated with each of two liquids and a common oulet therefrom for the mixture of the two liquids, a regulating valve in each inlet, a flow control valve connected in series with each said regulating valve and on the inlet side of the regulating valve, a yoke engaging both of said flow control valves, means comprising a reciprocable operating rod engaging with and operating said yoke, a sleeve rotatably mounted in said casing, said sleeve having an angled extension thereon, said reciprocable operating rod being mounted in the bore in said sleeve, a handle screw-threadedly mounted in said angled extension, said handle having a portion reciprocably mounted in a bore in said



angled extension, said portion terminating in a wedge member cooperating with the end of said reciprocable rod and means on said sleeve comprising downwardly extending portions cooperating with an apertured plate to form said regulating valves whereby rotation of said sleeve about its own axis adjusts the proportion of the two liquids admitted to said mixing chamber and rotation of said handle about its axis adjusts the total flow into the mixing chamber.

2,646,822
**PLASTIC-COATED PIPE AND PIPE FITTING**
**William C. Ferguson, St. Louis, Mo., assignor to The Presstite Engineering Company, St. Louis, Mo., a corporation of Missouri**
**Application December 31, 1949, Serial No. 136,285**
**6 Claims. (Cl. 138—68)**

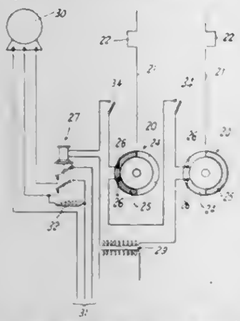


1. In combination, a pipe having an external pipe thread at one end and an external corrosion-resistant plastic coating reaching substantially to but not covering said thread, and a pipe fitting having an internal pipe thread adjacent one end of its bore with said end of the bore conically countersunk, the fitting having an external corrosion-resistant plastic coating completely covering its exposed surface, the pipe and fitting being threaded together with the countersunk end of the fitting extending beyond the inner end of the external thread on the pipe and surrounding the end portion of the plastic coating on the pipe and squeezing the plastic coating thereon to seal the joint and to form an essentially continuous coating.

2,646,823
**APPARATUS FOR MAINTAINING LOOMS OUT OF VIBRATION-REINFORCING PHASE**
**George A. Winterburn, Putnam, Conn.**
**Application May 14, 1949, Serial No. 98,769**
**4 Claims. (Cl. 139—1)**

1. A control system for maintaining two looms with their lays moving in opposition, the looms

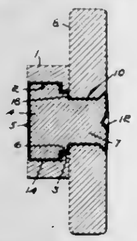
being operated at substantially the same speed and powered by individual motors, said system comprising: a pair of electric switches, one operated in synchronism with the lay of each loom, and a time delay relay in circuit with one of the



loom motors and actuated by simultaneous operation of both switches for varying slightly the speed of said motor for a fixed period of several seconds whenever the lays begin to move in unison.

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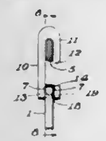
**2,646,824**
**BOSS FOR DOBBY JACKS**
**Emil C. Johnson, Manchester, Conn., assignor to H. F. Livermore Corporation, Allston, Mass., a corporation of Delaware**
**Application July 18, 1951, Serial No. 237,344**
**9 Claims. (Cl. 139—74)**



1. A replacement boss for a part of the dobby motion of a loom comprising in combination a relatively hard metallic roll having an annular flange at one end, and a metallic stud for rotatably supporting the roll on the dobby part and retaining the roll by means of the roll's annular flange, the stud having a relatively soft metallic shank for riveting to the said part of the dobby motion.

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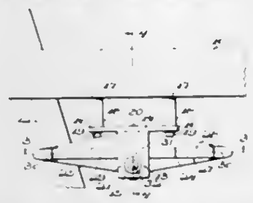
**2,646,825**
**REPAIR HEAD FOR HEDDLES**
**William H. Thorpe, Philadelphia, Pa., assignor to Walker Manufacturing Company, Philadelphia, Pa.**
**Application April 6, 1950, Serial No. 154,347**
**4 Claims. (Cl. 139—96)**



1. The combination of a heddle having a dovetail end, with a repair head comprising a bar-receiving portion, a body portion having an upwardly directed shoulder, an initially depending portion having an aperture, and a tongue initially depending from said last-mentioned portion, the shank of said heddle extending through said aperture and the sides of said dovetail portion engaging the sides of said aperture to prevent escape of said end from said head, said depending portion being bent into parallelism with said body portion, and said tongue being bent reversely over said shoulder.

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**2,646,826**
**PICKER STICK CHECK**
**Clarence W. Franklin, Clarkesville, Ga.**
**Application October 24, 1952, Serial No. 316,729**
**5 Claims. (Cl. 139—164)**

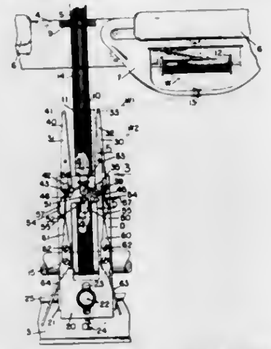


1. In a picker stick check, a supporting channel arranged beneath the lay and secured thereto, a vertical pivot element secured to the channel near its open side and longitudinal center, a pair of leaves having their inner ends pivotally secured to said element and extending generally longitudinally of the channel for frictional engagement with the picker stick and being horizontally swingable about the pivot element, and a spring attached to the channel near its closed side and longitudinal center and having parts extending over the outer sides of the leaves and connected therewith for urging the leaves into frictional engagement with the picker stick, the spring being spaced from said pivot element and leaves at its point of attachment to the channel so that the spring will not bind with the pivot element and is free to exert a predetermined force against the leaves.

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**2,646,827**
**FILLING STOP MOTION FOR NARROW WARE LOOMS**
**Albert Cederlund, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**
**Application March 22, 1952, Serial No. 278,007**
**11 Claims. (Cl. 139—370)**

1. In electric stopping means for a loom wherein a lay on one beat-up thereof moves a weft thread forwardly at one side of the fabric and on the next beat-up thereof moves the thread forwardly at the opposite side of the fabric, a detector member on each side of the fabric tending to be in indicating position, each detector member being moved to non-indicating position by the thread when the latter extends from the side of the fabric on which the detector member is located as the lay beats up, an electric contactor for and controlled by each detector member, said contactors being electrically connected when both detector members are in indicating position but each detector member when moved to non-indicating position by the thread moving the corresponding contactor to interrupt the electric connection between said contactors, and means controlled by said contactors effective to stop the loom if said contactors are electrically connected at a given point in the forward beat

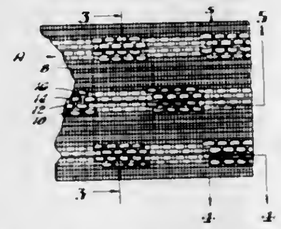


of the lay due to failure of the thread to move one or the other of said detector members to non-indicating position.

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**2,646,828**
**ELASTIC MATERIAL**
**Richard Hesse, Easthampton, Mass., assignor to United Elastic Corporation, Easthampton, Mass., a corporation of Massachusetts**
**Application June 14, 1950, Serial No. 168,108**
**1 Claim. (Cl. 139—421)**

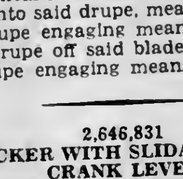


In an article of manufacture, a woven elastic fabric stretchable both longitudinally and transversely, a plurality of spaced apart groups of elastic strands, the elastic strands in each group being in side by side relation and woven into the fabric, each group of elastic strands projecting outwardly of the fabric to provide a plurality of raised frictional loops, the spaced apart groups being at each side of the fabric with the groups in staggered relation, the elastic loops of each group having edges which are offset from those of adjacent loops and the individual loops being in unstretched condition, whereby the loops upon stretching of the fabric may expand and contract and tend to draw together for binding fibers of adjacent fabric portions.

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**2,646,829**
**DRIVER FOR RECESSED HEAD FASTENERS**
**Harvey F. Phipard, Jr., South Dartmouth, Mass., assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass., a corporation of Massachusetts**
**Application July 13, 1948, Serial No. 38,519**
**2 Claims. (Cl. 145—50)**

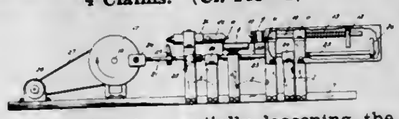
1. A driving bit or tool of the kind described adapted for driving rotation in either clockwise or counter-clockwise direction alternately, said driver having a tapered end with a plurality of alternate ribs and flutes, each of said ribs being formed with a slanting bevel on the edge and provided throughout the depth of the flute separating the ribs with a wall face substantially parallel to a radial plane including the axis of the driver, and with the opposite face slightly in-



clined with respect to said plane, adjacent ribs having said driving face and inclined faces oppositely positioned for clockwise driving action on one set of ribs and counter-clockwise driving on the alternate adjacent ribs.

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**2,646,830**
**APPARATUS FOR LOOSENING THE PITS OF DRUPES**
**Vane Lawrence, Menlo Park, Calif., assignor to Pratt-Low Preserving Co., Santa Clara, Calif., a corporation of California**
**Application November 8, 1949, Serial No. 126,197**
**4 Claims. (Cl. 146—1)**



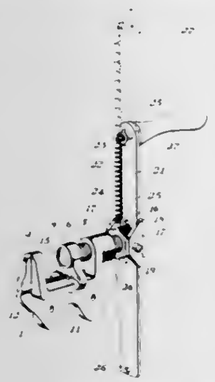
1. A machine for partially loosening the pit within a clingstone drupe that comprises drupe supporting means for supporting a drupe for movement along a straight path of travel longitudinally of its stem-blossom axis, a pair of parallel, elongated blades parallel with said path and at opposite sides of said axis, said blades being transversely curved with their concave sides in opposed relationship and substantially conforming to the cross-sectional contour of the opposite sides of said pit at opposite sides of the plane of its suture, drupe engaging means coaxial with said axis spaced from one of the ends of said blades supported for reciprocable movement toward and away from said blades, said drupe supporting means extending between said drupe engaging means and said blades and offset to one side of said axis for moving a drupe on said drupe supporting means onto said blades, with the latter extending into said drupe, means for reciprocating said drupe engaging means, and means for moving a drupe off said blades upon movement of said drupe engaging means away from said blades.

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**2,646,831**
**NUT CRACKER WITH SLIDABLY MOUNTED CRANK LEVER**
**Eugene P. Kennedy, Tulsa, Okla.**
**Application May 7, 1951, Serial No. 224,969**
**1 Claim. (Cl. 146—16)**

The combination with a nut cracker comprising a body member, cooperating cracker jaws carried by the body member, a drive screw threaded through a portion of the body member and moving one of said jaws towards the other, of a crank lever fixed to said screw for common rotational movement, a handle carried by one end of the crank lever, said crank lever being slidably mounted for radial movement across the axis of the drive screw, a head carried by the drive screw,

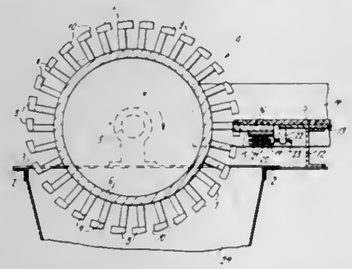
a bracket carried by said head and rotatable therewith, said lever being slidably mounted in said bracket and rotatable with the bracket, spring means cooperating with the crank lever for normally urging the crank lever to its short-



ened position, said spring means yieldably allowing the crank lever to be radially and manually extended and automatically shortened when released and limit stops carried by said crank lever and positioned to limit inward and outward movement of said crank lever.

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**2,646,832**
**CUBE CUTTING MACHINE AND CUTTER THEREFOR**
**Clarence A. Papendick, Normandy, Mo.**
**Application February 4, 1952, Serial No. 269,750**
**1 Claim. (Cl. 146—117)**

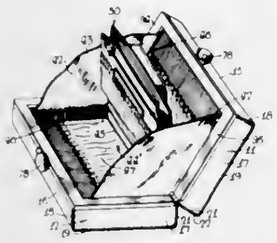


A cube cutting machine comprising, in combination, a stationary cutter-bar having a plurality of uniformly spaced straight teeth, a rotatable cylinder, elongated cutters radially projecting from the peripheral surface of said cylinder in staggered formation, each of said cutters having a stepped outer end sized to pass between two adjacent straight teeth, and a forwardly projecting spur for engaging the material to be cut in advance of the remainder of the cutter.

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**2,646,833**
**HANDBAG**
**Henry Meyers, Norwalk, Conn.**
**Application December 20, 1947, Serial No. 792,877**
**2 Claims. (Cl. 150—34)**

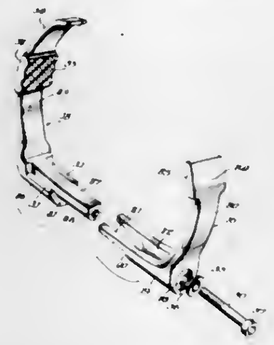
1. A handbag comprising two container sections swinging apart and together, a web connecting the respective aligned lateral edges of said container sections and extending upwardly from the lower edges thereof, and a rectangular center panel comprising a stiffening member having a facing on each wall thereof extending beyond the lower edge thereof, a plurality of pockets on said center panel, a stiffening strip between the extending ends of said facings, with



the adjacent longitudinal edges of said stiffening member and said stiffening strip being slightly spaced from each other, said extending ends and said stiffening strip being affixed to the base of one of said container sections to form a hinge with the edge of said stiffening strip aligned with the mid point of the base of said handbag.

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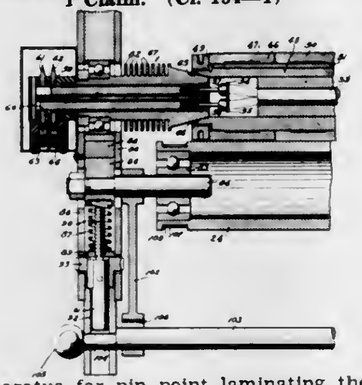
**2,646,834**
**REMOVABLE TIRE CLEAT**
**Edward F. Rusch, Cicero, Ill.**
**Application January 28, 1950, Serial No. 141,053**
**2 Claims. (Cl. 152—225)**



1. In a tire cleat, in combination, a pair of members approximately L-shaped in form and adapted to be releasably secured together in encircling relation with a pneumatic tire, each L-shaped member having a base portion of relatively heavy section adapted to engage the tread portion of the tire and said members each having a leg portion that is bowed outwardly for location adjacent the side walls of the tire, the base portion of one member being bifurcated to provide spaced prongs and a recess located between the prongs at the base thereof, the base portion of the other member providing a central finger and a supporting flange on each side located at the base of the finger, whereby the base portions have interfitting relation with the finger having location in the recess and the prongs being disposed in contact with and being supported by the flanges respectively, and threaded means for releasably securing the base portions in interfitting relation.



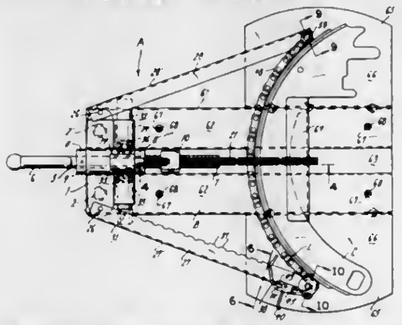
**2,646,835**
**APPARATUS FOR EFFECTING PIN POINT LAMINATION OF PLASTIC LINERS TO CARTON BOARD**
**Herman Gottesman, Clifton, N. J., assignor to The Permaline Company, Clifton, N. J.**
**Application July 13, 1949, Serial No. 104,416**
**1 Claim. (Cl. 154—1)**



Apparatus for pin point laminating thermoplastic inner lining to flat carton board, comprising companion laminating and anvil rolls, said anvil roll being substantially smooth to provide continuous smooth support for the board and superimposed lining, shafting for the laminating roll and gearing for driving said shafting, said laminating roll comprising a central heated roll core removably engaged with said shafting and a laminating sleeve removably engaged on said core and having a predetermined pattern of closely spaced laminating projections terminating in small, blunt tips, adjustable means for holding the anvil roll toward the laminating roll to support the board in position for the blunt tips of the laminating projections to impress small, closely spaced heated areas of the lining into the surface of the board and thereby to secure the lining to the board by small, separated, closely spaced thermoplastic bonds according to the pattern of the laminating projections on the laminating sleeve, and means for heating the core of the laminating roll including readily separable heating medium supply connections associated with the shafting supporting said core.

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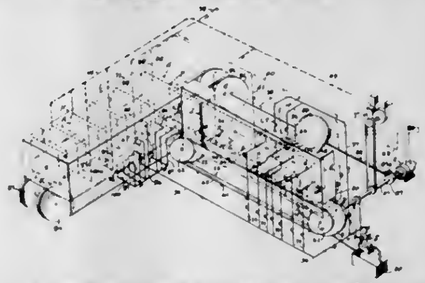
**2,646,836**
**BRAKE LINING CLAMP**
**Harry B. Barrett, St. Louis, Mo.**
**Application April 19, 1950, Serial No. 156,034**
**6 Claims. (Cl. 154—1)**



1. A clamp for applying a lining to brake shoes comprising a body member, a pair of diverging arms pivotally mounted at one end of said body member, a first flexible member extending between the diverging arms and adapted for contactive engagement with the lining of a brake shoe, means for adjusting the length of the first flexible member to accommodate various sizes of linings, a cross arm shiftably mounted for movement within prescribed limits upon said body member, and a second flexible member adjustably mounted on said cross arm, a brake-shoe gripping jaw engaged by the second flexible member, and means for shifting the cross arm to any selected position within the limits of its movement for regulating the contactive pressure between the first flexible member and the brake shoe lining.

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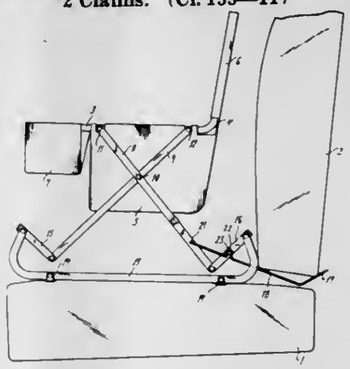
**2,646,837**
**HERMETIC PACKAGE SEALING MACHINE**
**Lester L. Brandenburg, Oakland, and George W. Orem, Vallejo, Calif.; said Orem assignor to said Brandenburg**
**Application November 9, 1948, Serial No. 59,066**
**8 Claims. (Cl. 154—1.6)**



1. A hermetic package sealing machine comprising a spraying chamber, means for continuously moving packages through the chamber, means for applying a continuous tearing tape to the packages as the packages move through the chamber, means for spraying the entire outer surface of the packages with a solution which when dried will enclose the packages in a hermetically tight casing that also enclose the tearing strip, and means for severing the tearing tape at points between adjacent packages.

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**2,646,838**
**RETAINER FOR CHILDREN'S SEATS**
**Matilda D. Welsh, La Due, Mo.**
**Application March 11, 1950, Serial No. 149,149**
**2 Claims. (Cl. 155—11)**

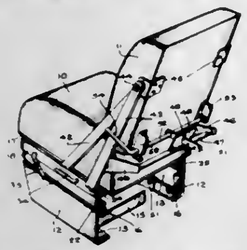


2. In combination with a child's seat having a frame, a supporting base, and a suspension in-

cluding a swinging link supporting said frame on said base, a retainer removably interlocked with said link and said frame to prevent relative movement thereof, said retainer having an extension formed to interlock with a car seat when said base rests on said seat to retain said base on said seat.

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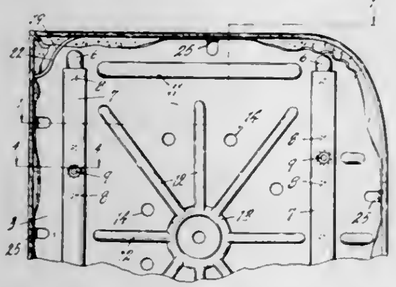
**2,646,839**
**ADJUSTABLE SEAT STRUCTURE**
**Ross H. Hillman, Rosemont, Pa., assignor to The Autocar Company, Ardmore, Pa., a corporation of Pennsylvania**
**Application August 6, 1948, Serial No. 42,771**
**10 Claims. (Cl. 155—90)**



1. In an adjustable seat structure adapted for installation in automotive vehicles, a sub-structure for supporting the adjustable seat, a carriage for the seat shiftably mounted for rectilinear shifting movement upon said sub-structure, and means on said carriage for shiftable support thereon of a seat member, said supporting means for the seat member being independent of said sub-structure and including manually adjustable cam members respectively operative adjacent the fore and aft ends of the seat member to vary the inclination thereof with respect to the horizontal.

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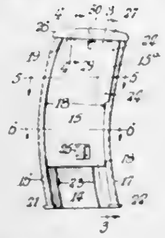
**2,646,840**
**UPHOLSTERED SEAT STRUCTURE**
**Wayne W. Good, Sturgis, Mich., assignor to Harter Corporation, Sturgis, Mich.**
**Application March 15, 1951, Serial No. 215,673**
**9 Claims. (Cl. 155—180)**



1. In an upholstered seat structure, the combination of a metal base plate having a downturned rim terminating at its lower edge in an inwardly directed flange, an upholstery covering embracing said rim and folded upwardly around the said rim flange and against the inner side thereof and lapping upon the underside of the base plate, a U-shaped upholstery clamping member disposed within said rim upon the upturned upholstery covering and having springable arms, said arms being offset inwardly at their ends and terminating in lugs, and a second upholstery clamping member disposed within said rim in opposed relation to said U-shaped clamping member and having holes therein with which the lugs of said springable arms are retainingly engaged, said clamping members being of such width as to snubbingly engage the upholstery covering between the inner side of the rim flange and the base plate, said base plate having bendable tongues engaging the inner sides of said clamping members.

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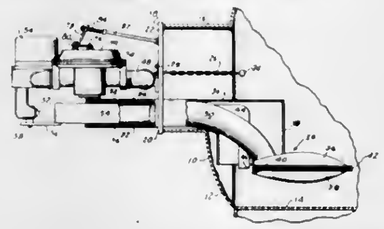
**2,646,841**
**AISLE STANDARD FOR THEATER CHAIRS**
**Austin C. Sellers, Menominee, Mich., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts**
**Application March 8, 1948, Serial No. 13,573**
**3 Claims. (Cl. 155—194)**



2. In an aisle standard for theatre chairs, an upright hollow body embodying therein laterally spaced outer and inner panels, the inner panel being substantially flat throughout its width and the outer panel having full length inturned front and rear flanges arranged with their inner margins in overlapping engagement with the front and rear margins of said side of the inner panel which faces inwardly of the standard, and secured along their edges thereto, the rear inturned flange of the outer panel having a cut away inner margin extending downwardly from the top thereof, which exposes the upper portion of the rear margin of the inner panel, and means carried by and extending inwardly from said exposed upper portion of the rear margin of the inner panel for attaching a part of an associated back rest to said standard.

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**2,646,842**
**GAS BURNER AND SECONDARY AIR SUPPLY MEANS**
**Harold E. Handley, Jackson, Mich.**
**Application April 11, 1949, Serial No. 86,846**
**2 Claims. (Cl. 158—99)**

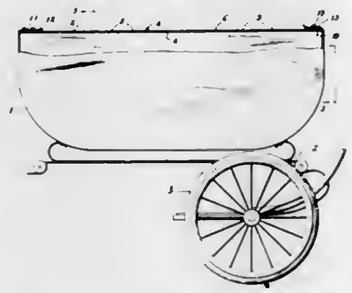


1. In a gas burner conversion unit adapted for use in a solid fuel heating unit, a support, a mixture supply tube projectably mounted on said support to extend into the fire box of said heating unit and curved downwardly at its inner end, a burner head on the inner end of said tube having a closed circumferential portion and burner ports extending circumferentially about the remaining portion with axes directed away from the supply tube, and in combination a secondary air supply tube surrounding and mounted on said mixture supply tube and correspondingly adjustably mounted with respect to said support, said secondary air tube having an outlet extending downwardly around said curved portion of the mixture tube with an opening at the closed circumferential portion of the burner head to project incoming secondary air below the burner on said mixture tube, said mixture tube and secondary air supply tube being simultaneously adjustable with respect to said support.



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**2,646,843**
**PROTECTIVE COVER FOR BABY CARRIAGE CONTENTS**
**Jules M. Adler, Yonkers, N. Y.**
**Application April 14, 1951, Serial No. 221,088**
**4 Claims. (Cl. 160—127)**

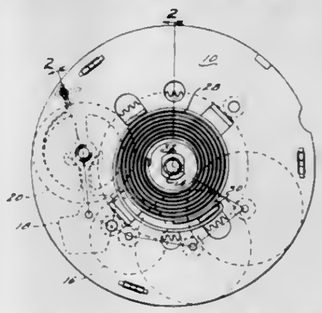


1. In combination, a baby carriage body having an open top and a protective cover for safeguarding the contents in such carriage body, said cover comprising a plurality of panels hingedly joined together to fold in accordion fashion, cooperating means at one end of the carriage body and on one end panel for pivotally mounting said end panel to dependingly suspend said panel, supplemental means on the carriage body in close proximity to the first mentioned means on the carriage body to hold the other end panel suspended in substantially parallel relation to said first end panel when the panels are collapsed in accordion fashion, and means at the opposite end of the carriage body for engaging and holding said other end panel when the panels are fully extended.

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**2,646,844**
**INTERVAL TIMER**
**Rex C. Darnell, Dexter, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan**
**Application September 29, 1951, Serial No. 249,699**
**7 Claims. (Cl. 161—1)**

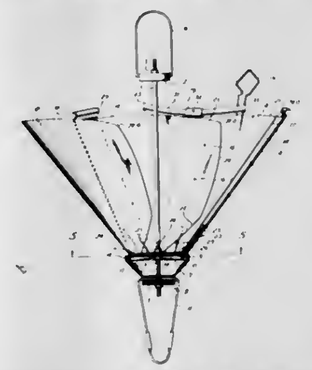
1. In an interval timer, an arbor rotatable in one direction from a zero position for setting the interval to be timed, means for returning the arbor to the zero position upon the expiration of the interval for which the timer is set, a signal actuating member movable between first and second positions, means urging said member toward said second position, a cam mounted on said arbor for moving said member to said first position, and a latch element engageable with said member for holding said member in said first position, said cam and said arbor having cooperating means effective upon rotation of said arbor in one direction to connect said cam to said arbor for rotation about one axis relative to said cam and effective upon rotation of said arbor in



the opposite direction to connect said cam to said arbor for rotation about a second axis relative to said cam spaced from said axis.

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**2,646,845**
**WELL BRIDGE**
**Willy A. Schillinger, Tulsa, Okla., assignor to Zero Hour Bomb Company, Tulsa, Okla., a corporation of Oklahoma**
**Application August 1, 1951, Serial No. 239,772**
**4 Claims. (Cl. 166—13)**



1. A well bridge, comprising, a horizontally disposed base member, a plurality of wing members constructed of sheet spring metal arranged circumferentially about said base member, each of said wing members being of irregular generally trapezoidal shape having its leading edge longitudinally straight and its trailing edge sloping upwardly and rearwardly relative to said leading edge, the upper edge of each wing member curving downwardly and rearwardly from the leading edge to said trailing edge, the trailing portion of each wing member over-lapping the leading portion of the next succeeding wing member and slidably laterally over the inner surface thereof in response to radially expansive and retractive movements of the wing members relative to said base member, a plurality of elongated ribs secured to the exteriors of said wing members along said leading edges thereof, the lower ends of said ribs being pivotally connected to said base member at angularly spaced points about its periphery, a plurality of detents mounted on said base member and normally biasing said wing members toward their open position, and releasable means normally holding said wing members in inoperative position.

2,646,846

## WELL CEMENTING MATERIALS AND THEIR APPLICATION

Howard G. Cutforth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 4, 1950, Serial No. 199,137
18 Claims. (Cl. 166—22)

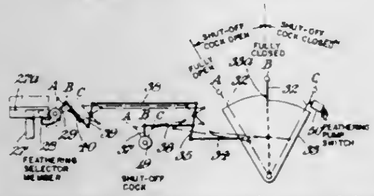
1. The process of producing a hydraulic cement aqueous slurry having a reduced water-loss to porous formations, which comprises admixing from 0.1 to 3.0 per cent of a water-soluble alkali metal polyvinyl sulfate with a hydraulic cement based on the dry weight of said cement, and mixing the resulting admixture with sufficient water to produce a fluid slurry.

2,646,847

## CONTROL FOR AIRCRAFT GAS-TURBINE POWER PLANTS HAVING VARIABLE-PITCH AIRSCREWS

Lionel Haworth, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application December 10, 1948, Serial No. 64,586
In Great Britain January 5, 1948
5 Claims. (Cl. 170—135.74)




1. A power plant for an aircraft comprising an engine, means to supply fuel to said engine, an airscrew driven by the engine, a feathering mechanism for the airscrew, means for controlling the fuel supply from said fuel supply means and for completely cutting off the supply of fuel to the engine and comprising a shut-off cock having a range of movement from its fully open to its fully closed position and a second range of movement in its fully closed state to a position beyond its fully closed position, means operatively interconnecting said cock and said feathering mechanism so that the feathering mechanism is set to feather the airscrew only when said cock partakes of said movement in its fully closed state, and control means operatively connected to said cock and having two ranges of movement, in the first of which the cock is moved between its open position and its fully closed position and in the other of which the cock is moved to partake of said movement in the fully closed state.

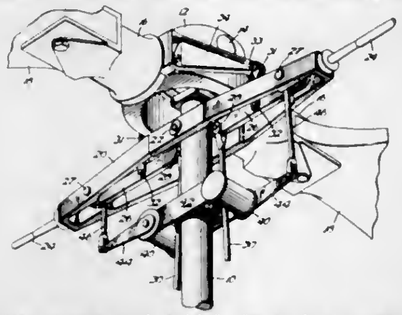
2,646,848

## AUTOMATIC HELICOPTER ROTOR STABILIZER

Arthur M. Young, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Buffalo, N. Y.

Application February 18, 1947, Serial No. 729,207
7 Claims. (Cl. 170—160.13)

1. In an aircraft, a body, a rotary member mounted on said body for rotation about a generally upright axis, blade means, means mounting said blade means on said rotary member for change of the effective incidence of said blade means, inertia means rotatable about a generally upright axis, means mounting said inertia means on said body for universal inclination relative thereto, means connecting said inertia means with said blade means to control the effective incidence of said blade means, and non-elastic friction damping means interconnecting said



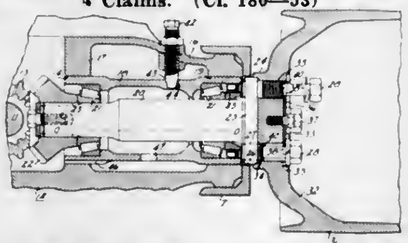
inertia means and said body and arranged to damp inclination movements of said inertia means relative to said body.

2,646,849

## BELT PULLEY ATTACHMENT

Walter F. Strehlow, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 20, 1949, Serial No. 111,370
4 Claims. (Cl. 180—53)



4. In a tractor, the combination of an apertured wall member forming part of the tractor main body and presenting a side opening for mounting a belt pulley attachment on said tractor, a sleeve forming part of said attachment and insertable endwise into and withdrawable from said main body through said side opening means for securing said sleeve within said main body at substantially right angles to said wall member and in coaxial, laterally offset relation to said side opening so as to provide an internal space within said main body between the axially outer edge of said side opening and the end face of said sleeve next to said wall member, a pulley drive shaft rotatably mounted in axially fixed position within said sleeve and having an end flange within said internal space of said tractor main body, said end flange being substantially coextensive, diametrically, with said side opening and terminating at its axially outer side in proximity to the outer side of said wall member; and means for detachably securing a belt pulley to said end flange in an operative position externally of said tractor main body.

2,646,850

## POWER STEERING AND CENTERING MEANS FOR TRAILER WHEELS

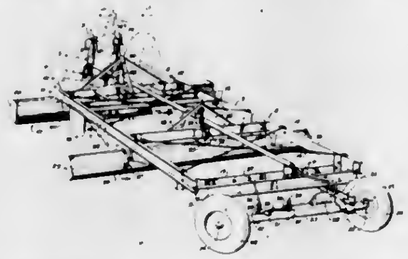
Charles H. Brown, Breckenridge, Tex.

Original application June 25, 1948, Serial No. 35,123. Divided and this application February 7, 1950, Serial No. 142,865
2 Claims. (Cl. 180—79.2)

1. A land implement comprising a frame having spaced parallel side members interconnected



adjacent their respective ends by front and rear cross members, front and rear axles connected to said side members adjacent the front and rear ends thereof, a stub axle pivotally mounted on each end of said rear axle for movement about an upright axis, a wheel mounted on each of said stub axles and a wheel mounted on each end of said front axle, a tie rod having its ends connected with said stub axles, a bracket mounted on said rear axle adjacent one of said side members, a hydraulically operated piston spported on said bracket, a piston rod having one of its ends secured to said piston and the other end thereof connected with said tie rod whereby actuation of said piston in either direction will cause a turn-



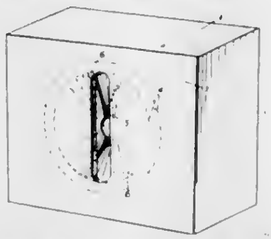
ing movement of said wheels mounted on said stub axle simultaneously and in the same degree about the vertical axis, and means for maintaining said wheels mounted on said stub axles in a predetermined position, said means comprising an elongated keeper bar mounted on said rear axle intermediate its ends, said keeper bar having a notch formed therein open at its under side, a latch bar slidably mounted on and extending transversely of said rear axle for reciprocating movement in the direction of its longitudinal axis, said latch bar being normally positioned within said recess, means interconnecting said latch bar with said piston rod for movement to either side of said notch, and resilient means for releasably maintaining said latch bar within said recess.

2,646,851

## LOUD-SPEAKER BAFFLE WITH ELONGATED APERTURE FOR THE EGRESS OF SOUND

Roger Chapman and Robert Henry Trier, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application September 4, 1948, Serial No. 47,824
In Great Britain September 10, 1947
3 Claims. (Cl. 181—31)



2. A loudspeaker comprising a diaphragm, a baffle plate arranged in front of said diaphragm and substantially perpendicular to the axis of the speaker, a virtual elongated slot in said baffle, the width of said slot being substantially uniform and of the order of the wavelength of the highest frequency for which maximum diffusion is required.

2,646,852

## LOUD-SPEAKER CABINET

John Forrester, Burnside, Glasgow, Scotland

Application May 10, 1949, Serial No. 92,279
In Great Britain April 21, 1949
6 Claims. (Cl. 181—31)



1. A loud speaker comprising a casing having side, front, and rear walls, a series of similar-shaped spaced partitions located within said casing and dividing the interior of said casing into a series of communicating compartments, at least one outer wall of each compartment being constituted by a portion of a wall of the casing, each compartment intermediate the end compartments of the series being located between two adjacent partitions and having towards opposite ends openings to the two adjacent compartments, each compartment of the series being at least in part surrounded by a succeeding compartment, said last compartment opening solely into the next preceding compartment of the series, and a sound-emitting unit located in the first compartment of the series, the first partition of the series at least in part surrounding the sound emitting unit and being spaced therefrom, an outer wall of said first compartment constituted by a portion of a wall of said casing being formed with at least one port leading from the interior of said first compartment to the exterior of said casing.

2,646,853

## COMPLIANT SUPPORTS FOR TRANSDUCER DIAPHRAGMS

Lyndall Crossthwaite Pocock, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application November 5, 1949, Serial No. 125,671
In Great Britain November 11, 1948
6 Claims. (Cl. 181—31)



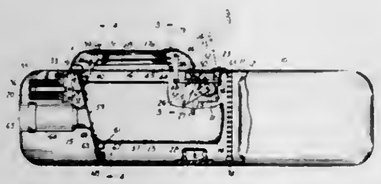
1. An electro-acoustic transducer including a conical diaphragm of inherently rigid material, armature means associated with the apex of said diaphragm in a manner to drive or to be driven by said diaphragm, a marginally supported circular membrane of a compliant material, said diaphragm being concentrically disposed in respect to said membrane and in marginal contacting engagement therewith, and an annular element of compliant material of an overall diameter equal to the diameter of said membrane with outer portions thereof clamped in contiguous registered engagement with the outer portions of said membrane and inner portions thereof extending over the margin of said diaphragm on the side thereof opposite to that which marginally engages said membrane, whereby said diaphragm is floatably positioned between said membrane and said compliant annular member to permit transverse displacement thereof for centering of said armature, said membrane being of sufficiently thin and compliant material to conform to and thereby not interfere with sound waves initiated by said diaphragm and traveling toward, and effectively through and outwardly from said membrane.

**2,646,854**
**BAFFLE TYPE MUFFLER HAVING A PLURALITY OF HELICAL PASSAGES**
**George Bromhead Walker, Portarlington, Victoria, Australia**
**Application September 14, 1949, Serial No. 115,592**
**In Australia September 22, 1948**
**4 Claims. (Cl. 181—67)**



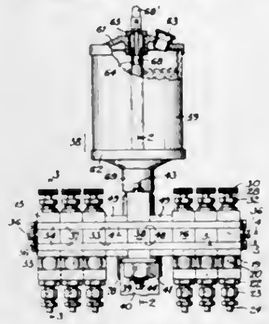
1. A silencer or muffler for engine exhausts or the like, comprising a casing having a relatively small inlet at one end and a relatively large outlet at the other end and of tapered formation therebetween, a central cylindrical core within said casing and substantially the full length thereof to cooperatively form an annular expansion chamber which progressively increases in diameter from the inlet end to the outlet end so that the exhaust gases expand as they travel through said chamber and are greatly reduced in pressure when they escape at the outlet end, a conical nose on said core at the inlet end and against which the entering gases impinge and are divided into an annular stream, a plurality of helical vanes on said central core adjacent the nose end and having tapered outer edges coincidingly engaging said tapered casing to support said core at its front end and define substantially closed helical passages through a portion of the chamber to give the gases a helical motion, and a spider in the outer end of said casing and supporting the rear end of the central core member.

**2,646,855**
**FILTER REPLACEMENT MECHANISM FOR VACUUM CLEANERS**
**Edgar P. Senne, Rockville Centre, N. Y.**
**Application November 25, 1950, Serial No. 197,565**
**20 Claims. (Cl. 183—37)**



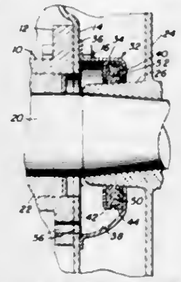
1. In a vacuum cleaner, a filter replacement mechanism for receiving a plurality of reserve fresh filter units and serially placing said units in operating position in said cleaner upon successive actuations of said mechanism comprising, an opening and closing member for the removal of filter units from said cleaner mounted on said cleaner for movement between closed and open positions, a storage magazine adapted to hold a plurality of fresh filter units, and means actuated by movement of said member from open to closed position for moving one of said filter units from said magazine to said operating position.

**2,646,856**
**MULTIPLE OILER**
**Frank J. Lyden, Milwaukee, Wis.**
**Application January 31, 1951, Serial No. 208,789**
**18 Claims. (Cl. 184—81)**



1. In an oiler, a plurality of laterally adjacent bodies each having a transverse opening, the openings in adjacent bodies communicating to form an oil passage, oil supply means connected to said passage, at least one of said bodies being a valve body and having a valved discharge communicating with the transverse opening therein, compressible sealing means between adjacent bodies, and retaining means holding the laterally adjacent bodies in assembled relation and compressing said sealing means, said retaining means comprising tension members extending along said plurality of bodies in parallel relation to said transverse openings.

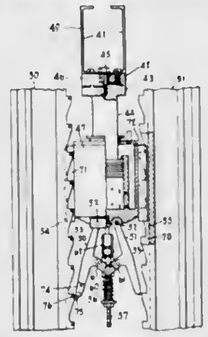
**2,646,857**
**GREASE DEFLECTOR**
**Howard O. Thomas, South Gate, Calif.**
**Application January 25, 1949, Serial No. 72,656**
**1 Claim. (Cl. 184—106)**



The combination of a vehicle axle housing having an axle rotatable therein, a brake drum having a hub mounted on said axle, a flange on said housing provided with a circle of apertures, one of which is disposed substantially below said axle, a brake support abutting said flange and provided with a circle of apertures in register with the apertures in the flange, a hollow grease retainer abutting said brake support and including a seal in frictional engagement with said hub, said grease retainer being provided with a set of apertures in register with all the apertures in the brake support and flange excepting the apertures below the axle, a plurality of fastening elements provided in all the registering apertures except those below the axle whereby to secure said shield and said support to said flange, and a fastening screw positioned in the registering apertures below the axle and coacting with said fastening elements to secure said support to said flange, said fastening screw being provided with an axial bore affording an outlet passage in communication with the interior of the grease retainer whereby excess grease therein may gravitate to the ground.

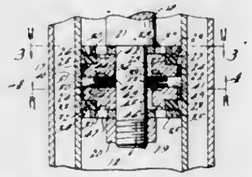


**2,646,858**
**SAFETY APPARATUS FOR ELEVATORS**
**Eric Albert Sahlin, Harrington Park, N. J., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey**
**Application March 26, 1952, Serial No. 278,675**
**6 Claims. (Cl. 187—75)**



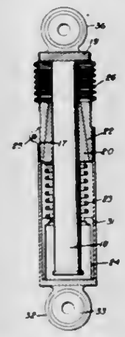
6. In an elevator installation; an elevator platform; hoisting roping for said platform at opposite ends thereof; guiding means for said platform at said opposite ends thereof; and safety mechanism for each of said opposite ends of said platform comprising, a buffer freely suspended by the platform, said buffer having a cylinder and a plunger connected to said platform with a swivel joint, a pair of oppositely disposed vertical racks, a pair of pawls carried by said buffer cylinder at the lower end thereof for cooperating with said racks, means for withholding said pawls from engagement with said racks but operable by parting of said hoisting roping at that end of the platform for causing said pawls to engage the teeth of said racks to stop descent of said buffer cylinder, thereby causing the descent of said platform to be retarded and finally stopped as the plunger moves downwardly in said cylinder, and means for guiding said buffer separately from said platform guiding means.

**2,646,859**
**PISTON ASSEMBLY FOR SHOCK ABSORBERS**
**Charles E. Read and Ralph H. Whisler, Jr., Monroe, Mich., assignors to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan**
**Application June 30, 1949, Serial No. 102,414**
**1 Claim. (Cl. 188—88)**



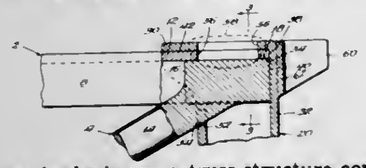
A hydraulic shock absorber, including a pressure cylinder, a reserve chamber, a base compression valve controlling piston rod displacement of the hydraulic fluid from the pressure cylinder to the reserve chamber, a piston assembly within the pressure cylinder having two parts spaced from each other axially of the cylinder, means providing relatively free flow of fluid past the peripheral portions of the parts, a sealing element seated on the outer face of one part and having an outwardly extending annular resilient lip frictionally engageable with the cylinder wall, a second sealing element seated on the outer face of the other part and having an outwardly projecting annular lip frictionally engageable with the cylinder wall, passages in said one part through which hydraulic fluid may flow upwardly from the lower portion of the pressure cylinder to the upper portion thereof when the piston assembly is moved toward the base valve assembly, the sealing element of said one part preventing the flow of fluid between said piston and pressure cylinder during such movement and forcing the fluid through said passages, and valve means for said passages positively controlling the upward flow of hydraulic medium through said piston assembly part so that the full volume of the pressure cylinder may be utilized to obtain a predetermined shock absorber action, said valve means for said passages being so constructed that resistance offered thereby to the upward flow of fluid will be just a little less than or substantially the same as the resistance offered by the base compression valve to the piston rod displacement.

**2,646,860**
**SHOCK ABSORBER, ESPECIALLY FOR AUTOMOTIVE VEHICLES**
**Roger Pirard, La Ferriere-sur-Risle, France, assignor of fifty per cent to James V. Sparks, Austin, Tex.**
**Application March 30, 1950, Serial No. 152,818**
**In France April 12, 1949**
**1 Claim. (Cl. 188—129)**



A shock absorber comprising a hollow cylinder having an internally threaded, open upper end, a bushing having an upwardly tapered bore therein threadedly secured to the upper end of said cylinder, a rod extending through said bore into said cylinder, a plurality of wedge-shaped members disposed in said bore and surrounding said rod, a coil spring disposed in said cylinder and surrounding said rod, one end of said coil spring abutting said wedge shaped members and resiliently urging them into said bore, a ring disposed within said cylinder, the lower end of said rod extending through said ring and being enlarged to retain the ring thereon, the other end of said spring abutting said ring.

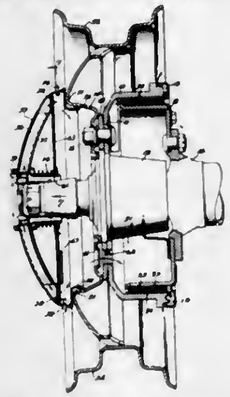
**2,646,861**
**WELDED BRAKE BEAM**
**Arthur A. Weisberger, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**
**Application December 29, 1949, Serial No. 135,756**
**10 Claims. (Cl. 188—223.1)**



1. In a brake beam, a truss structure comprising a U-section compression member of uniform cross section from end to end and having a rear wall and top and bottom flanges projecting forwardly therefrom, a tension member having an end portion formed wider than the tension member transversely of the plane thereof and extending between said flanges and seated against said rear wall, said end portion extending longitudinally parallel to said rear wall and being of uniform rectangular or other suitable cross section from end to end and extending at its forward side forwardly of said flanges, a brake head having a sleeve forming a pocket receiving said compression member and end portion therein, said sleeve including a web closing the outboard extremity of said pocket and in flat face engagement with the end of the compression member and outboard extremity of said end portion, said sleeve comprising a rear wall engaging the rear wall of the compression member and having top and bottom walls seated against the top and bottom flanges, said top and bottom walls being offset toward each other forwardly of said end portion and in flat face engagement with the forward side thereof above and below said tension member, an inboard wall disposed forwardly of said end portion connected to said top and bottom walls and having an aperture therein accommodating said tension member therethrough and in complementary engagement therewith around the periphery of said aperture, said rear walls of the sleeve and compression member having registering openings therethrough defining a weld cavity extending lengthwise longitudinally of said compression member and terminating at its outboard end inboardly of the outboard extremities of the compression member and end portion and at its inboard end terminating outboardly of the inboard extremity of said end portion, said cavity terminating at opposite sides a substantial distance inwardly of the periphery of said end portion, said cavity being closed at its forward side by said end portion and at its rear side extending through the rear of the beam, a weld applied through the rear side of said cavity filling the same and connecting said rear walls to each other and to said end portion, and support means for said beam on said web extending outboardly thereof longitudinally of said compression member.

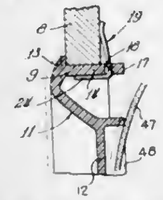
**2,646,862**
**AIR-COOLED BRAKE**
**Adiel Y. Dodge, Rockford, Ill.**
**Application March 4, 1949, Serial No. 79,652**
**5 Claims. (Cl. 188—264)**

1. A brake comprising a rotatable drum, a backing plate mounted adjacent to the drum and spaced from the drum periphery to leave an annular air outlet opening between the backing plate and the peripheral edge of the drum, a wheel structure connected to the drum at the end thereof opposite to the backing plate, and a cover member carried by the wheel structure and rotatable with the drum and formed with



radially extending passages communicating with atmosphere adjacent the center of the cover and with the interior of the drum at their outer ends.

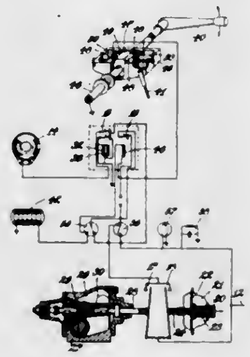
**2,646,863**
**FASTENER DEVICE**
**Henry E. Hinz, Forest Park, and Henry C. Fletcher, Wooddale, Ill., assignors to Admiral Corporation, Chicago, Ill., a corporation of Delaware**
**Application April 17, 1950, Serial No. 156,348**
**2 Claims. (Cl. 189—78)**



1. In a wall formed to provide an opening therein; window means having a rim extending through said opening and flange means extending from said rim engaging said wall adjacent said opening, said rim being formed with clip engaging lugs, said lugs including a seat formed therein, and resilient clip means engaging each of said lugs, each comprising at least one resilient wing means engaging said wall on the side opposite to said flange, said wing means being formed with offset arms extending on both sides of said lug, at least one other wing means extending from said arms engaging said rim on one side, said arms being formed to engage the other side of said rim at said lug, said other wing means including a seat engaging means engaged in said seat to hold said clip means in place.

**2,646,864**
**MOTOR VEHICLE POWER TRANSMISSION SYSTEM**
**Andrew Craig Miller, Andrew Mathis Kamper, and Geoffrey Berry, Coventry, England, assignors to Humber Limited, Stoke, Coventry, England, a British company**
**Application August 21, 1951, Serial No. 242,946**
**In Great Britain February 7, 1951**
**8 Claims. (Cl. 192—3.5)**

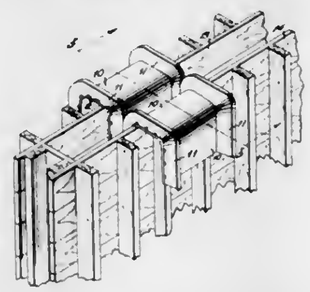
1. A motor vehicle having an internal combustion engine with a suction inlet and a control valve therein, road wheels and a driving connection between the engine and road wheels which connection includes a kinetic hydraulic torque converter comprising a driving impeller, a driven turbine and a reaction member and an electromagnetic clutch by which the impeller and turbine may be clutched together for rotation in unison, and an electric circuit including the clutch magnet and a source of electricity by



which the clutch magnet may be energised, which motor vehicle is characterised by switch means in the aforesaid circuit controlling energisation of the clutch magnet, a suction-responsive device with a connection to the suction inlet and an operative connection between the suction-responsive device and the switch means whereby the switch means is operated to release the clutch when the device responds to a fall in the suction in the inlet to a predetermined value.

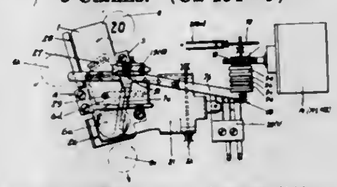


**2,646,865**
**NONSEGREGATING CONVEYER CHUTE**
**J. Nell Perry, San Jose, Calif.**
**Application July 10, 1950, Serial No. 172,877**
**1 Claim. (Cl. 193—25)**



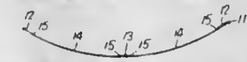
In combination with a concrete form having a pair of spaced parallel vertical walls, the provision of a pair of flexible belts each supported by one of said vertical walls and extending downwardly upon the inner face thereof in opposed relation to the other, and a pair of inwardly extending flexible wall sections each affixed adjacent an edge of each belt, said sections of one belt being in contact with the sections of the other belt to form with their attached belts an enclosed chute.

**2,646,866**
**DEVICE IN PREPAYMENT COIN BOXES FOR GENERATING COIN-RELEASED ELECTRICAL IMPULSES**
**Otto Moser, Bern, Switzerland, assignor to Autelca A. G., Guemligen, a Swiss company**
**Application May 3, 1950, Serial No. 159,706**
**In Switzerland May 6, 1949**
**3 Claims. (Cl. 194—9)**



1. Coin-controlled purse transmitting apparatus, comprising a single coin chute for the coins of all denominations to be inserted, a coin feeler structure projecting into said coin chute and being engageable with the periphery of the respective inserted coins, said feeler structure being displaceable by the coins respective different amounts depending upon the coin size, a pulse issuing device having drive means responsive to coin insertion and having pulse contact means connected with said drive means to operate a given number of times for each individual operation of said drive means, said device having pulse control means for controlling said contact means to issue during each said operation respectively different numbers of pulses dependent upon the denominations of the respective inserted coins, said control means comprising a plurality of different control cams connected with said drive means to be driven thereby, and said feeler structure being selectively engageable with said control cams depending upon the amount of displacement of said feeler structure.

**2,646,867**
**REINFORCED FLEXIBLE CONVEYER STRIP**
**Charles N. Bebinger, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 1, 1951, Serial No. 224,023**
**4 Claims. (Cl. 198—1)**

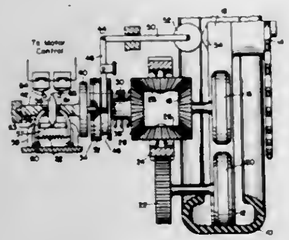


4. A thin, flexible metallic conveyor strip of uniform width and of uniform thickness throughout most of its width and having at its opposite edges relatively narrow portions of increased thickness and further having between said relatively narrow edge portions at least one further relatively narrow portion of increased thickness to preclude sagging of the central portion of the strip upon winding on a reel, said strip other than at said edge portions and at said at least one relatively narrow portion of increased thickness being materially thinner than said portions and said thinner portions being much wider than the thicker ones and said thicker ones much wider than their own overall thickness.

**2,646,868**
**MOVING STAIRWAY HANDRAIL CONTROL**
**William F. Eames, Westfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application July 12, 1950, Serial No. 173,373**
**2 Claims. (Cl. 198—16)**

1. In a moving stairway including a flexibly connected continuous series of movable steps and

an electric motor for moving them at a constant speed, a flexible continuous handrail and means for moving it in synchronism with and substantially parallel to the movement of said steps including a sheave positively driven from said motor and in driving engagement with said handrail, a circuit controller for the circuit of said motor and actuating means therefor, differ-



ential means responsive to relative movement between said sheave and handrail at the point of driving engagement for advancing said actuating means from an initial position toward an operative position with respect to said circuit controller, and means for periodically returning said actuating means to its initial position including a releasable connection between said differential means and said actuating means.

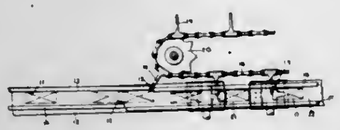
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**2,646,869**

## APPARATUS FOR TRANSFERRING AND CONVEYING ARTICLES

**James Arthur Kay, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company**

**Application September 10, 1948, Serial No. 48,568**
**In Great Britain September 15, 1947**
**2 Claims. (Cl. 198—20)**



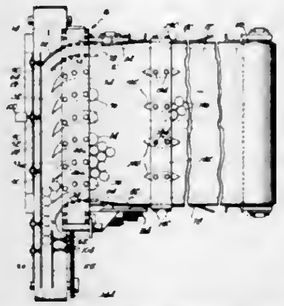
1. Apparatus for transferring and conveying articles comprising a feed conveyor, a fixed stop protruding into the path of the articles on said feed conveyor so as to hold the articles against movement under the influence of said feed conveyor after the leading article strikes said stop, an endless delivery conveyor arranged adjacent said feed conveyor to travel over a path at least a portion of which is rectilinear, said delivery conveyor being arranged to travel at a higher rate than that of the feed conveyor and provided with a series of spaced pushing elements each adapted in turn firstly to engage the leading article as the pushing element approaches the rectilinear path so as to constitute a transfer member for moving the leading article laterally clear of the fixed stop so as to allow it to be forwarded by said feed conveyor, and then to move forwardly past the leading article along the rectilinear path into engagement with the preceding article forwarded by the feed conveyor so as to move that article towards a delivery station.

**2,646,870**

## ARTICLE HANDLING MACHINE

**Wallace M. Parry, Rockford, Ill., assignor to Odin Corporation, Chicago, Ill., a corporation of Illinois**

**Application March 10, 1948, Serial No. 14,073**
**14 Claims. (Cl. 198—30)**



1. An article handling machine comprising an infeed conveyor, a discharge conveyor operable in a direction transversely of the infeed conveyor, and transfer mechanism for transferring articles between the conveyors comprising a group of transfer members disposed to form a plurality of parallel transfer passages between the conveyors, said transfer members being spaced to provide a single file track for the articles therebetween and being inclined from the infeed to the discharge conveyor in the direction of movement of the discharge conveyor with the discharge ends of the group of transfer members positioned with respect to the discharge conveyor to position the articles for unimpeded single line passage on the discharge conveyor, and means for shifting said members during operation of the machine to facilitate the passage of the articles through said passages.

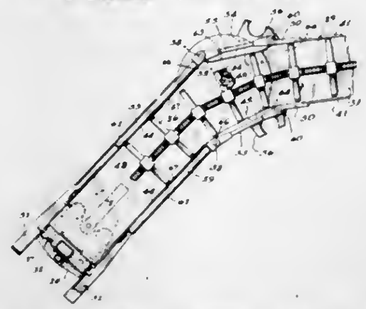
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**2,646,871**

## ARTICLULATED CONVEYER FOR MINING MACHINES

**Richard C. Lundquist, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**

**Application October 12, 1951, Serial No. 251,075**
**8 Claims. (Cl. 198—109)**



1. In an articulated conveyor, a pair of aligned trough sections, one of said trough sections being movable with respect to the other about a substantially vertical axis, each of said trough sections having substantially vertical side walls with vertically spaced upper and lower support plates extending between said vertical side walls for the forward and return runs of an endless conveyor extending longitudinally of said trough sec-



tions, an idler mounted at one end of said movable trough section, a pair of support arms hingedly connected to the other trough section and in bearing contact with the movable trough section for support thereof in all positions of articulation thereof, said support arms being adapted to move telescopically with respect to said movable trough section during articulation, a support shoe secured to the upper support plate of said movable trough section and a carriage movable on said support shoe longitudinally of said movable trough section, said movable carriage contacting said idler and adapted to move said idler in a direction to take up the slack in said conveyor occasioned by the articulation of said trough sections, a pulley mounted on said support shoe, a pair of pulleys mounted on said movable carriage, sliding members guided by the side walls of said movable trough section, one of said sliding members being in contact with the end of one of said support arms during articulation of said trough sections, and a flexible strand trained around said pulleys and connected at each end to said sliding members for moving said carriage in a direction to adjust the position of said idler upon telescoping movement of said support arms in accordance with the amount of articulation of said trough sections.

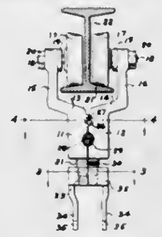
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**2,646,872**

## TROLLEY CONVEYER

**Leo T. Daigle, Detroit, Mich., assignor to Cable-Link Corporation, Detroit, Mich., a corporation of Michigan**

**Application November 21, 1951, Serial No. 257,605**
**14 Claims. (Cl. 198—177)**



1. A trolley for supporting a load along a flanged beam comprising a pair of upright cable clamps having opposed transversely arranged slotted portions to retainingly receive a longitudinally movable cable, means hingedly connecting upper portions of said clamps above said cable, a pair of spaced oppositely arranged arms extending upwardly from said clamps upon opposite sides of said beam, an inwardly positioned roller journaled upon the upper end of each of said arms and mounted upon said beam, opposed threaded extensions depending from the lower ends of said clamps below said cable constituting complemental portions of a lug, and a nut threaded upon said lug for interconnecting said clamps in gripping relation to said cable.

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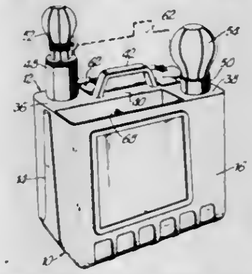
**2,646,873**

## BATTERY SERVICE KIT

**Robert B. Edelmann, Chicago, Ill., assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois**

**Application August 4, 1951, Serial No. 240,407**
**4 Claims. (Cl. 206—16)**

1. A battery service kit comprising a rectangular casing having a bottom and upright sides, a pair of L-shaped internal walls extending upright from said casing bottom, the ends of the legs of said L-shaped walls terminating at the casing walls, the long legs of the L-shaped walls being longer than one-half the length of said casing, the short legs of the L-shaped walls being shorter than one-half the width of said casing, whereby said long legs of the L-shaped walls are spaced from each other in the region where their lengths overlap, said L-shaped walls thus forming a pair of rectangular storage compartments in one pair of diagonally opposite corners of said casing and a pair of water compartments in the other pair of diagonally opposite corners of said casing, said water compartments being interconnected by a channel bounded by the spaced overlapping lengths of the long legs of said L-shaped walls, a top panel overlying said pair of



water compartments and said interconnecting channel and being sealingly secured to the upper edges of the casing walls and the L-shaped walls, said top panel having formed therein a pair of apertures each positioned over one of said water compartments and adapted to provide access for battery service instruments to the water therein, a recess formed in said top panel, said recess lying adjacent one of said storage compartments on the other side of an internal wall bounding said storage compartment, and said wall forming a supporting ridge between said compartment and the adjacent recess adapted to have an instrument, which is to be stored in the compartment, hooked thereover and supported therefrom.

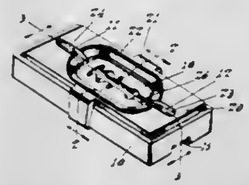
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**2,646,874**

## BLADE DISPENSING MAGAZINE

**Nicholas Testi, Boston, Mass., assignor to The Gillette Company, Boston, Mass., a corporation of Delaware**

**Application August 8, 1947, Serial No. 767,592**
**14 Claims. (Cl. 206—16)**



2. A blade dispensing magazine comprising a walled base having aligned upstanding blade-locating studs, a flat cover pivotally mounted on the side walls of the base intermediate the ends thereof, fitting with clearance between the end walls of the base and shaped to close both ends of the magazine in cooperation with said walls, a spring having a convex portion acting as a fulcrum over which the cover may be rocked to open either end of the magazine, and means for holding the cover in closed position.

**2,646,875**
**DISPLAY CONTAINER**
**Edgard Feder, New York, N. Y.**
**Application May 31, 1951, Serial No. 229,223**
**10 Claims. (Cl. 206—45.13)**



1. A display container comprising an open-top casing, a platform disposed in said casing, a two-part cover for said casing, each said part including a first and a second unit, means to hinge the first of said units to a side of the casing, means to hinge the second unit to the first unit remote from the first-named hinging means, said second unit having a notch extending along an edge thereof parallel to the edge of the casing to which the first unit is hinged, said notch being disposed to receive an edge of the first unit when the cover part is opened, at least one flexible elongated member connected to one side of the platform and having an end connected to the second unit of one of the cover parts remote from the second-named hinging means, and a flexible elongated element connected to the other side of the platform and having an end connected to the second unit of the other cover part remote from the second-named hinging means, whereby when said cover parts are opened the platform will be raised bodily and will be automatically locked in raised position.

**2,646,876**
**MAILABLE DISPLAY PACKAGE**
**George C. Sparks, Chadds Ford, Pa.**
**Application September 7, 1951, Serial No. 245,584**
**6 Claims. (Cl. 206—46)**



1. In a mailable display package, a core produced from a strip of thick cardboard having a slit part way therethrough from one face and located midway between two opposite edges to provide a hinge and panels one imposed upon the other, said panels having open ended apertures in the ends thereof opposite the hinge, the aperture in one panel being larger than the one in the other panel whereby when said apertures are in register the edges of one aperture project beyond the corresponding edges of the other aperture, and a wrapper enclosing said core and including articulated members consisting of a top leaf, a top, a front, a bottom, a back, a closure top, a front and a tongue and further including articulated sides, side leaves and tabs, said front having a sight opening of the same size as the smaller core aperture, the edges of said sight opening cooperating with the core to provide a pocket having an internal groove along the sides and bottom of said pocket, said top having an entrance opening therein leading to the top of the pocket, and a keeper slot to receive the tongue when the closure flap is folded over the front.

**2,646,877**
**PACKAGE FOR TAPELIKE MATERIAL**
**William M. Scholl, Chicago, Ill.**
**Application November 30, 1949, Serial No. 130,248**
**3 Claims. (Cl. 206—52)**



1. A package for a roll of tape-like material including a box having a slot in the wall thereof, a roll of tape-like material, a fragile covering enclosing said roll, a temporary leader secured to the free end of said material and extending through said covering, said covering being sealed around said leader, and said material and covering being enclosed in said box with the free end of said leader projecting through the slot in the box.

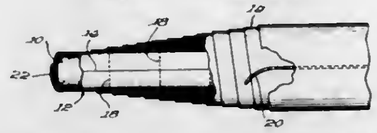
**2,646,878**
**METHOD OF AND DEVICE FOR SAVING SHAVING SOAP**
**Mario J. Carrau, Montevideo, Uruguay**
**Application July 31, 1950, Serial No. 176,809**
**3 Claims. (Cl. 206—56)**



1. A soap-saving kit comprising a tubular member open at the top and having a bottom provided with an opening therethrough, a disc normally at rest on said bottom and slidable within the tubular member in the longitudinal direction thereof, a soap-stick supported on the surface of the disc away from the bottom of the tubular member, said soap-stick having an end the surface of which is curved with the curved surface of the stick exposed to the open end of the tubular member, and a cylindrical element shorter than the tubular member and having an end the surface of which is curved complementarily to the exposed curved surface of the soap-stick supported on the disc, said cylindrical element being adapted to be inserted in the tubular member with its curved end surface in engagement with the curved end surface of the soap-stick supported on the disc and to be removed from the tubular member, whereby the soap-stick supported on the disc is transferred from the disc to the curved end surface of the cylindrical element and removed from the tubular member by the cylindrical element, the cylindrical element, after removal thereof from the tubular member, serving as a supporting and grasping means for the soap-stick transferred thereto from the disc and removed from the tubular member thereby.

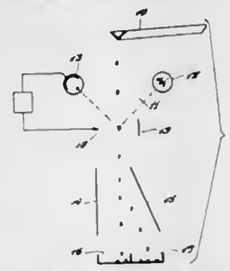


**2,646,879**
**GLUE DISPENSING ARTICLE**
**Sue B. Carstensen, Redondo Beach, Calif.**
**Application March 10, 1952, Serial No. 275,833**
**1 Claim. (Cl. 206—56)**



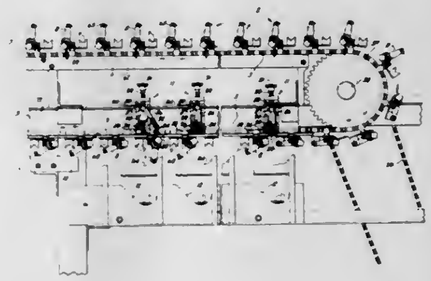
A glue dispensing article, comprising: an inner core of form-sustaining glutinous adhesive; an intermediate covering of flexible metallic foil, said foil being progressively removable from said core so as to provide piecemeal exposure thereof; an external strip of sheet material wound helically upon said foil with its turns in overlapping relationship and adhesively connected to form a tube therearound; and a longitudinally extending string disposed between the outer surface of said foil and the inner surface of said strip material, said string being movable radially outwardly of the article so as to progressively cut through said material to thereby permit its being unwound progressively about said foil, and the portion of said foil from which said strip material has been removed being foldable over the exposed portion of said core whereby to seal it against contact with the atmosphere until such time as said core is to be again utilized, said foil including a longitudinal separation adapted to facilitate its removal from said core, said foil also including a plurality of longitudinally spaced circumferential perforations to facilitate progressive removal of said foil as said core is exposed.

**2,646,880**
**PHOTOELECTRIC SORTING OF SMALL ARTICLES**
**Herbert Frankel, London, England, assignor of one-half to R. W. Gunson (Seeds) Limited, London, England**
**Application June 7, 1949, Serial No. 97,652**
**In Great Britain June 16, 1948**
**1 Claim. (Cl. 209—111)**



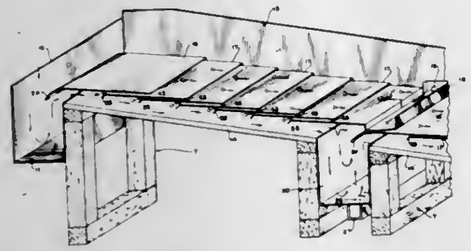
The method of sorting small articles which vary in their ability to reflect light in accordance with their individual light reflecting properties, which comprises selectively charging said articles electrically in accordance with their individual light reflecting properties by passing said articles through a corona discharge from which said articles receive an electrical charge depending on their light reflecting properties, and then deflecting said articles in proportion to the electrical charge carried by each, thereby effecting a separation based on the individual light reflecting properties of said small articles and wherein said small articles are illuminated, and are viewed by a photoelectric cell as said articles are in mid-air, just prior to their entering said corona discharge, the response of said photoelectric cell to light reflected from each individual article determining whether said article is charged by said corona discharge and, if so, the amount of electrical charge placed thereon.

**2,646,881**
**WEIGHING AND SORTING APPARATUS**
**Oscar A. Boyer, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York**
**Application March 31, 1949, Serial No. 84,646**
**14 Claims. (Cl. 209—121)**



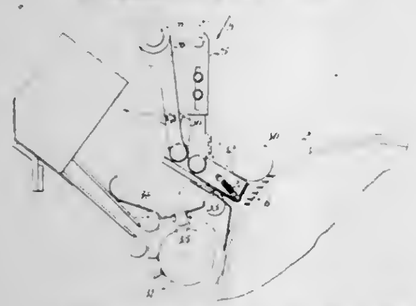
1. Apparatus for sorting lengths of glass rod or tubing according to weight comprising a conveyor, means to advance said conveyor along a predetermined path of movement, a weighing head mounted on the conveyor including movable weight responsive support means supporting a length of rod or tubing and movable thereby into a balanced weighing position as determined by the weight of the rod or tubing carried thereby, said head being further provided with engagement means unitarily movable with and displaceable by the weight responsive means in accordance with the weight of the rod or tubing carried thereby, means including a succession of tripping means spaced progressively closer to the path of movement of the head in the direction of movement of the conveyor, at a series of grading stations therealong, for selectively engaging the said engagement means in accordance with the degree of displacement thereof by the rod or tubing to thereby unitarily move both the said engagement means and the associated weight-responsive means a further distance beyond their said balanced weighing position to a discharge position in which the said support means still supports the rod or tubing, and ejecting means at each of said stations arranged in the path of movement of the rod or tubing held by said support means when in said discharge position to engage the rod or tubing and remove it from said support means during the continued movement of the head along its path of travel while the support means is held in its said discharge position by said tripping means to a discharge position while still retaining the rod or tubing, and ejecting means at each of said stations arranged in the path of movement of the rod or tubing held by said support means when in said discharge position to engage the rod or tubing and remove it from said support means during the continued movement of the latter in its said discharge position.

2,646,882
**FLOTATION MACHINE**
Hildreth Frost, Jr., Denver, Colo.
Application August 2, 1950, Serial No. 177,271
13 Claims. (Cl. 209—170)



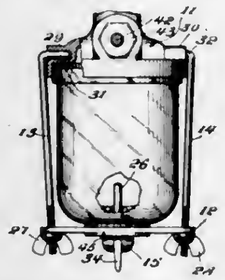
1. A flotation machine comprising means for conditioning pulp; means for aerating said pulp; a table having an inclined bottom; a feed chamber for feeding said pulp to the upper end of said table bottom; and a series of inclined louvres disposed in overlapping relation and spaced above said table bottom with the highest point of the upper end of each louvre being above the lowest point of the lower end of the louvre next above.

2,646,883
**MAGNETIC SEPARATOR WITH STATIONARY MAGNET**
Desmond Walter Molins, Felix Frederic Ruau, Valentine Pearce Harvey, and Sydney Alfred Nichols, Deptford, London, England, assignors to Molins Machine Company, London, England, a British company
Application July 12, 1949, Serial No. 104,234
In Great Britain July 27, 1948
6 Claims. (Cl. 209—223)



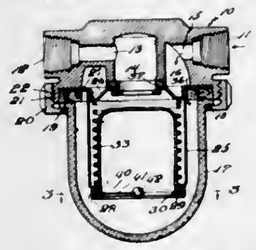
1. In a magnetic separator of the class described, in combination, a supporting frame, at least one separating magnet, a surface moving relative to said magnet and providing a conveyor for material from which extraneous magnetic bodies are to be extracted, displaceable means for securing said magnet to said supporting frame for adjustment to and from a position adacent said conveyor surface where the passing material is in the field of attraction of said magnet and such bodies are attracted to the magnet and separated from the mass of material, means for displacing said first named means for moving said magnet away from said conveyor surface, a non-magnetic shield distinct and separate from the conveyor surface and covering said magnet during the separating operation whereby said bodies adhere to said shield while it remains in magnet covering position, a displaceable trough carried by said supporting frame, one of the positions of said trough being that in which it is disposed beneath the magnet and shield when the latter members are moved away from the conveyor surface, and means associated with said shield and automatically operable upon abutment with one of the above recited displaceable parts of the separator to remove the shield out of the field of the magnet while the shield is above the trough, whereby any paramagnetic bodies adhering to the shield fall away therefrom.

2,646,884
**SEDIMENT BULB FOR CARBURETORS**
John E. Findley, Springfield, Colo.
Application November 10, 1948, Serial No. 59,206
4 Claims. (Cl. 210—57)



3. In a sediment eliminator for fuel supply lines of internal combustion engines, the combination which comprises a cylindrical head having inlet and outlet connections therein and having an annular recess in the under surface, a support part positioned below the head, bolts carried by opposite sides of the head extended through the ends of the said support bar and having nuts threaded on the lower ends for holding the said support bar, a collector bowl positioned below the head with the upper edge thereof in the said annular recess of the head and with the lower end spaced from the said support bar, said bowl having an opening extended through the lower end thereof, a cleaning plug threaded in the said support bar and having a stem extended through the opening in the lower end of the said bowl, and a sealing gasket positioned between the said support bar and bowl and around the plug for sealing the opening in the lower end of the bowl.

2,646,885
**BY-PASS FILTER ELEMENT**
William S. James, Birmingham, Mich., assignor to Fram Corporation, a corporation of Rhode Island
Application June 30, 1949, Serial No. 102,409
5 Claims. (Cl. 210—165)

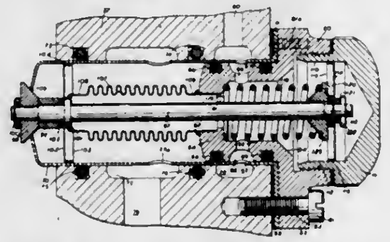


1. In a fluid filter, a head provided with means for the entrance and exit of fluid to be filtered,



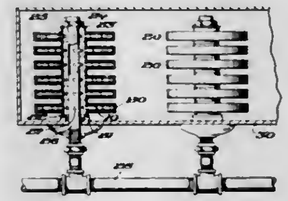
a bowl, means providing a passage from the entrance through the bowl to the exit, an annular sealing seat provided along said passage, a guiding cylindrical surface of short axial extent adjacent said seat with its axis at right angles to the plane of said seat and a larger cylindrical surface beyond said guiding surface and connected thereto by an inclined wall, a filtering element in said passage having an annular flange with its peripherial edge slidably engaging said guiding surface, resilient means urging said element along said guiding surface and against said seat to provide a seal but of a strength to permit said element to axially move beyond said guiding surface into the area of said larger surface should the element become clogged.

2,646,886
**LIQUID OR OIL FILTRATION SYSTEM**
Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application October 22, 1947, Serial No. 781,337
In Great Britain November 11, 1946
11 Claims. (Cl. 210—166)



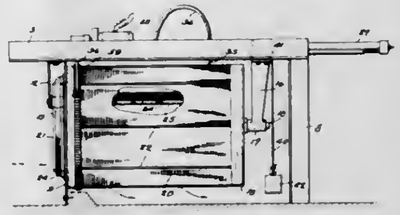
3. A filter having a container, a filter element in the container, means forming a filter head secured to the container, the filter head including a plurality of partitions dividing the head into an inlet for unfiltered liquid, an outlet for filtered liquid and a subsidiary outlet for unfiltered liquid, an inlet port connecting the inlet with the interior of said container on one side of the filter element, and an outlet passage connecting the interior of said container on the other side of the filter element with the outlet for filtered liquid characterized by a device for controlling the flow of liquid from the inlet to the outlets, said device comprising a housing extending through and supported by the partitions, a bellows having its open end immovably secured in said housing and dividing said housing into two chambers, an unfiltered liquid inlet port connecting one of said chambers with the filter inlet, a filtered liquid inlet port connecting the other of said chambers with the filtered liquid outlet, the pressure of the unfiltered liquid in said first mentioned chamber acting on one side of said bellows and the pressure of the filtered liquid in said other chamber acting on the other side of said bellows, an unfiltered liquid outlet port connecting said first mentioned chamber with the subsidiary outlet, a valve member normally closing said outlet port, means connecting said valve member to the closed end of said bellows so that each movement of said closed end is transmitted to said valve member, and resilient means acting on the closed end of said bellows to bias said valve member to closed position, the effective area of said valve member being equal to the effected area of said bellows so that the thrust exerted by the pressure of the unfiltered liquid on said valve member is equal to the thrust exerted by the pressure of the unfiltered liquid on said bellows, whereby said valve member is held in its closed position solely by the thrust of said resilient member and the rise in pressure of the filtered liquid in said other chamber and at the filtered liquid outlet above a predetermined valve will move the closed end of said bellows and said valve member against said biasing means to move said valve member to open position.

2,646,887
**FILTER**
John Warren Robinson, Barrington, and Michael Dobrolet, Pawtucket, R. I., assignors to Fram Corporation, a corporation of Rhode Island
Application July 14, 1950, Serial No. 173,758
4 Claims. (Cl. 210—169)



1. A filter element comprising a strip of filtrate permeable material having perforations between its edges and spirally wound with the layers contiguous and locating the perforations in the several layers in juxtaposition providing a generally radial passage from a central space outwardly and with an outer non-perforated layer of the same continuous strip of material to seal said radial passage whereby the filtrate passes edgewise through said spiral coil of material to said perforations and then radially to the center opening.

2,646,888
**LIQUID CLEANING DEVICE**
Clarence J. Schichtl, Yakima, Wash.
Application November 10, 1949, Serial No. 126,602
2 Claims. (Cl. 210—173)

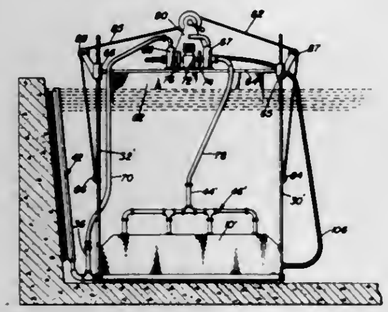


1. A screening device of the class described, comprising a frame adapted to be positioned in a stream of water, a horizontally disposed shaft mounted on the frame, a revoluble cylindrical screening member mounted on said shaft, a disc closing one end of the revoluble cylindrical screening member, the opposite end of the screening member being open, through which water is directed to the screening member, the water passing through the mesh of said screening member, a water-spraying nozzle mounted exteriorly of said screening member above said screening member, through which water is directed to the screening member as the screening member rotates, flushing foreign matter from the mesh of the screening member, a wire screen basket extending longitudinally throughout the length of

the screening member suspended within the upper portion of the screening member around which the screening member rotates, into which material falls from said screening member, means for rotating the cylinder, and means for moving the spraying nozzle longitudinally of the cylinder.

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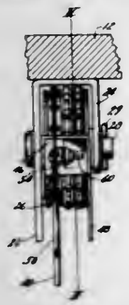
**2,646,889**
**SWIMMING POOL CLEANING DEVICE**
**August Dulak, West, Tex.**
**Application February 15, 1950, Serial No. 144,321**
**6 Claims. (Cl. 210—207)**



1. In a cleaning apparatus for a swimming pool, a housing having an open bottom, a float having brackets secured thereto, guide rods secured to said housing and bearings secured to said brackets, said rods being vertically slidable in said bearings, a spray head secured to said housing to loosen sediment from the pool, means for supplying liquid under pressure to said spray head, a brush, means resiliently and rotatably securing said brush to and within said housing, a motor disposed on said float, suction means to discharge sediment from said housing, means drivingly connecting said motor and said brush, a winch disposed on said float and cables wound on said winch and secured to said guide rods for raising said housing when said winch is operated.

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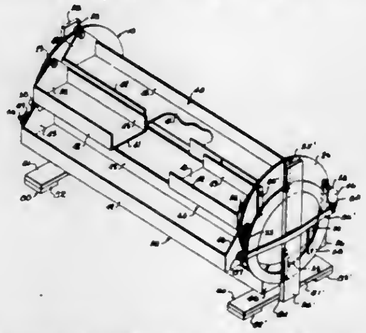
**2,646,890**
**GARMENT HANGER**
**Charles H. Kraft, Kansas City, Mo.**
**Application September 11, 1950, Serial No. 184,241**
**2 Claims. (Cl. 211—117)**



1. A garment hanger comprising a frame, a sheave rotatably mounted in said frame, a spring member mounted to constantly urge said sheave to rotate in one direction, a flexible member secured to and wound about said sheave, and carrying a coat hanger at its free end, an inclined table carried by said frame and having an opening formed therein to receive said flexible member therethrough, notches formed in said table from the edges of said opening to receive and secure said flexible member against longitudinal movement, and depending members carried by said frame to engage and limit rotation of said coat hanger about said flexible member.

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**2,646,891**
**APPARATUS FOR SUPPORTING AND DISPLAYING ARTICLES**
**George P. Morgan, West Asheville, N. C.**
**Application May 11, 1950, Serial No. 161,413**
**2 Claims. (Cl. 211—131)**



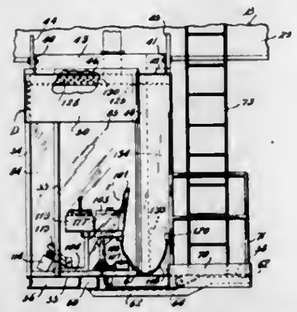
1. Apparatus for supporting a plurality of articles comprising a pair of axially alined spaced members, means supporting said spaced members for rotation about their centers, a plurality of circularly arranged trays disposed between the spaced members and having studs fixedly secured to each end thereof and said studs being pivotally mounted in said spaced members, a first plurality of links each having one end thereof fixedly connected to one end of said studs, a second plurality of links each having one end thereof fixedly secured to the studs at the other end of each tray, a pair of spaced rotatable annular members mounted in off-center relation to the first spaced members, the ends of the links remote from the ends which are fixed to the studs being pivotally connected to the corresponding rotatable annular members and the points at which the links are pivotally connected to the rotatable annular members being substantially circularly arranged and in spaced relation to each other so all of the links as well as the corresponding trays will maintain a like attitude with respect to each other when the spaced members are rotated to change the positions of the trays relative to the means supporting the spaced members for rotation, said links forming the sole support for the second rotatable members, means for supporting the annular members for rotation comprising a pair of adjustable bolts disposed on each side of the annular members and in a horizontal plane disposed below the centers of the annular members, each of the bolts having an eccentric portion provided with a roller on which the annular members rest.

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**2,646,892**
**CRANE CAB**
**Roy F. Dehn, Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a corporation of Ohio**
**Application December 4, 1947, Serial No. 789,645**
**6 Claims. (Cl. 212—21)**

1. In an operator's cab of the character referred to, an operator's seat supported in the cab for rotation relative thereto, power means operatively connected to said operator's seat for rotating it in opposite directions, and control devices carried by and rotatable with said operator's seat and operatively connected with said

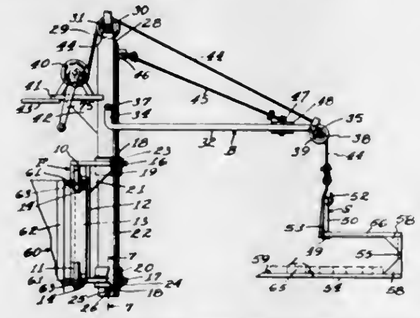




power means for controlling actuation of the latter, the said control devices including actuating portions disposed at both sides of said seat for engagement by movement of parts of the body of the operator other than his hands and feet.

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**2,646,893**
**HOIST**
**Theodore Weatherford, East St. Louis, Ill.**
**Application September 3, 1948, Serial No. 47,650**
**2 Claims. (Cl. 212—61)**

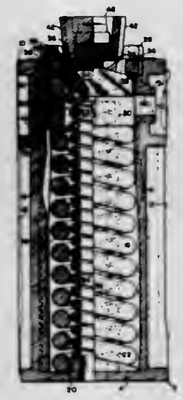


1. A device of the class described including a base frame, a mast rotatably and removably mounted on the frame; a boom pivotally mounted for vertical swinging movements on said mast, means extending between said mast and a point adjacent the free end of said boom for limiting the downward swinging movement of the latter, a sheave rotatably mounted on the top of the mast, a second sheave rotatably mounted on the free end portion of the boom, a platform secured to the mast, a winch mounted on the platform, a flexible load lifting means extending from the winch and trained over the two sheaves, and a detachable load support carried at the free end of said load lifting means.

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**2,646,894**
**DRAFT GEAR**
**Raymond C. Pierce, Chicago, Ill.**
**Application December 27, 1949, Serial No. 135,111**
**11 Claims. (Cl. 213—34)**

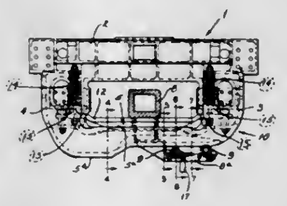
10. In a draft gear, a casing open at one end having spaced side walls and spaced end walls, a base wall interconnecting said walls and closing the other end of the casing, said side walls at the open end of the casing being W-shaped in edge view and presenting a pair of opposed V-shaped friction surfaces adjacent each end wall and diverging away from each other, a pair of friction shoes between each pair of opposed surfaces and in engagement therewith, the central portions of said side walls at said open end of the casing converging toward each other and comprising stop lugs at their apices extending into the casing toward each other, a wedge member elongated transversely of said end walls and



being of thinnest cross section centrally thereof and extending loosely between the lugs and having oppositely projecting lugs centrally at the inner end thereof, said lugs on the wedge extending between said pairs of shoes behind the first-mentioned lugs, said wedge member extending at each end between the shoes of each pair and being widened at each end and having wedge surfaces at opposite sides converging inwardly of the housing and in complementary engagement with adjacent shoes, and independent spring means reacting between each pair of shoes and said base wall.

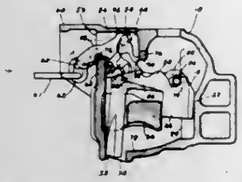
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**2,646,895**
**DRAWBAR CARRIER**
**James C. Travilla, Jr., Swarthmore, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware**
**Application November 6, 1946, Serial No. 708,073**
**7 Claims. (Cl. 213—61)**



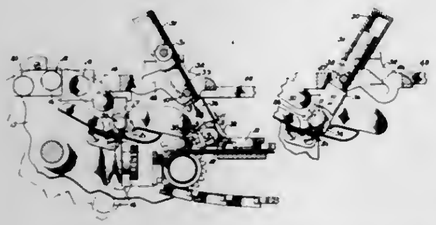
1. In a railway vehicle platform, sills arranged to receive a coupler shank between them, there being a rigid coupler carrier integral with said sills and substantially deeper throughout the portion adjacent one of said sills than it is throughout the portion adjacent the other of said sills.

**2,646,896**
**CAR COUPLER**
**William J. Metzger, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio**
**Application January 13, 1951, Serial No. 205,875**
**8 Claims. (Cl. 213—121)**



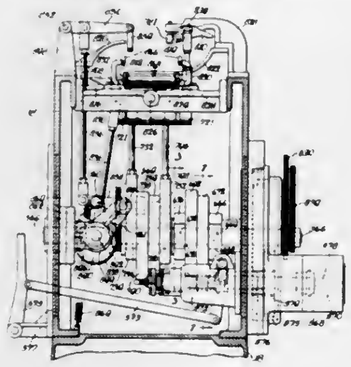
1. In a car coupler having a chambered head, a knuckle pivoted to said head, a lock for maintaining said knuckle in closed position, a lever connected to said lock for raising said lock out of locking position, and double fulcrum means for pivotally mounting said lever in said head, said means comprising a projection in said head about which said lever fulcrums during initial raising of said lock out of locking position, and a projection on said lever for engaging said head at a point directly above said projection on said head, said lever upon actuation thereof to raise said lock out of locking position being adapted to fulcrum about said projection on said lever after a predetermined amount of pivotal movement about said projection on said head.

**2,646,897**
**HANDLING APPARATUS**
**Marshall E. Francisco, San Jose, Calif.**
**Original application August 6, 1949, Serial No. 111,060. Divided and this application January 8, 1951, Serial No. 204,969**
**5 Claims. (Cl. 214—1)**



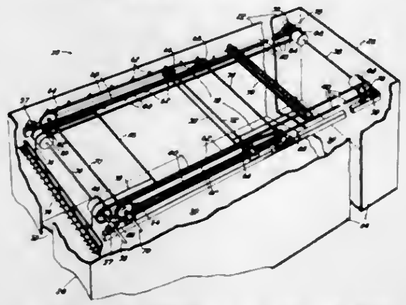
1. A device for handling fruit comprising a pair of telescopically associated members, one thereof being mounted for pivotal movement about an axis transversely disposed to the telescopical association of the members, a cam follower extended from the other member substantially normal to the plane of pivotal movement of said members, a cam having a camway formed therein receiving the cam follower and translating pivotal movement of the telescopic members into responsive telescopic contraction and extension thereof, a cap having a central bore mounted on the extended end of the member bearing the cam follower, a pair of fingers positioned against the cap in substantial alignment with the telescopic members, a wrist pin pivotally interconnecting the fingers, a mounting pin extended through the bore in the cap and pivotally connected to the wrist pin, and a spring mounted under initial compression between the inner end of the mounting pin and the cap.

**2,646,898**
**STACKING AND ELEVATING DEVICE**
**Harold R. Coon, Sr., and Earl J. Rapp, Toledo, Ohio, assignors to Lynch Corporation, Anderson, Ind., a corporation of Indiana**
**Original application May 14, 1945, Serial No. 593,708. Divided and this application September 21, 1951, Serial No. 247,928**
**5 Claims. (Cl. 214—6)**



1. A device for simultaneously stacking and elevating a plurality of articles, said device comprising two conveyors extending side by side and having vertically offset terminals, supporting means having two vertically offset supporting surfaces and movable vertically between an upper position and a lower position wherein said supporting surfaces are aligned with said conveyor terminals to receive a plurality of articles therefrom, reciprocable pusher means carried by said supporting means for pushing articles from said upper supporting surface onto articles on said lower supporting surface to stack said articles, elevating means for moving said supporting means between said upper and lower positions and actuating means for said reciprocable pusher means synchronized with said elevating means to effect article pushing advancement of said pusher means as said supporting means is raised and retraction of said pusher means as said supporting means is lowered.

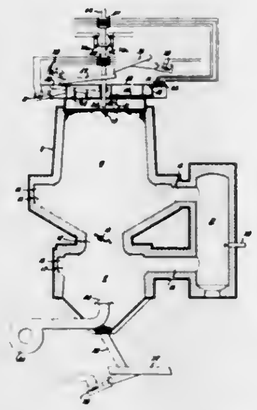
**2,646,899**
**ICE STORAGE BIN HAVING RAKES FOR MOVING THE SURFACE ICE**
**Egbert Cornell Stover, Brooklyn, N. Y., assignor to Flakice Corporation, Brooklyn, N. Y.**
**Application September 8, 1948, Serial No. 48,239**
**15 Claims. (Cl. 214—17)**



14. In a raking assembly of the character described: a series of rakes movable through an endless path, said path having a horizontally extending raking portion and a horizontally extending return portion spaced above and parallel to said raking portion; a pair of substantially parallel horizontally disposed endless-belt-type conveyers each having a lower flight adjacent to said raking path portion and an upper flight adjacent to said return path portion, said conveyers being spaced apart a distance on the order of slightly less than the length of said rakes; a plurality of flexible suspenders, each rake being attached near one end to one of said conveyers by a suspender and near the other end to the other conveyer by another suspender; said conveyers including rake supporting surfaces along the upper flight thereof upon which the rakes ride while traversing said return path portion; and a conveyer system disposed adjacent to said return path portion and including a series of pusher members, said system being geared to operate at a higher linear conveying speed than said conveyers whereby to move said rakes along said supporting surfaces at a rate in excess of the rate at which said suspenders would move said rakes.

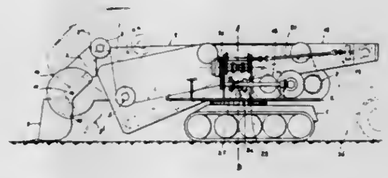


**2,646,900**
**ORE TREATING FURNACE**
**Carl W. Sisco, Toledo, Ohio, assignor to Erie Mining Company, Hibbing, Minn., a corporation of Minnesota**
**Application February 6, 1948, Serial No. 6,743**
**12 Claims. (Cl. 214—18.2)**



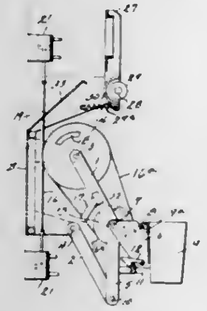
11. In a furnace for heat treating a column of fluent material descending therethrough, an electrically operated feeder mechanism for loading the material onto the stockline of the column, an electrically operated device for removing material from the bottom of the column and which includes in circuit therewith an adjustable control member for varying the rate at which material is removed, a reversible motor coupled to said control member, circuit means controlled in timed relation with the operation of said feeder mechanism for periodically energizing said motor to run for predetermined periods in one direction or the other to thereby effect corresponding changes in the adjustment of said control member, a float member on said stockline, relay means in said motor circuit controlled by said float member for determining the running direction of said motor, a pair of limit switches actuated alternatively upon predetermined totalized runs of said motor in opposite directions, means controlled by one of said switches to open the respective energizing circuits for said material removing device and said motor, a relay controlling the circuit through which said feeder mechanism is energized, switch means actuated by said float member upon a predetermined rise in said stockline for energizing said relay to interrupt the energizing circuit for said feeder mechanism, and means controlled by the other of said limit switches for likewise opening the energizing circuit to said motor and completing a holding circuit for said relay.

**2,646,901**
**MECHANICAL SHOVEL FOR NARROW UNDERGROUND GALLERIES**
**Paul Garnier, Lyon, France, assignor to Societe Pinguely, Ville-Gozet, Paris, France, a societe anonyme of France**
**Application April 13, 1950, Serial No. 155,631**
**In France April 20, 1949**
**2 Claims. (Cl. 214—90)**



1. In a mucking machine for narrow underground galleries, the combination of a wheeled frame adapted to progress over ground, a platform carried by said frame and adapted to pivot thereon round a vertical axis, a substantially horizontal elongated large capacity conveyor box resting directly on the platform and including high lateral walls and a scraper conveyor moving along an endless path through the said conveyor box, a prime mover carried by the platform laterally of and outside the conveyor box, a transmission controlled by said prime mover including parts lying to either side of the conveyor box and transverse spindles interconnecting the gears to either side of the conveyor box and extending underneath the latter, gears lying underneath the platform operatively connected with said transmission and controlling the wheeled frame and the angular setting of the platform on the said frame, a gearwork connecting said transmission with the conveyor and extending on one side of the conveyor box to control operation of the scraper conveyor, a jib pivotally secured to the front end of the conveyor box round a transverse axis thereof, a bucket pivotally secured to the front end of the jib through an axis that is parallel to the pivotal axis of the jib with reference to the conveyor box, winch drums located on the outside of the conveyor box and controlled by the transmission and cables controlled by said winch drums, adapted to control said bucket and jib to move the bucket between its lower material-engaging position and a raised position above the forwardly progressing strand of the scraper conveyor, the conveyor box forming an accumulator for the material to be removed from the gallery by the bucket and which is to be emptied intermittently into a vehicle registering with the rear end of the conveyor when the platform assumes a predetermined angular setting.

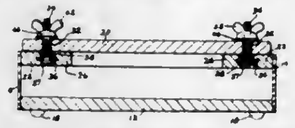
**2,646,902**
## HOISTING AND DUMPING MEANS FOR TRUCKS CARRYING DIRT
**René Nussberger and Jean Pellat-Finet, Lyons, France, assignors to Societe Sovel Vehicules Electriques Industriels, Villeurbanne, France, a corporation of France**
**Application January 24, 1949, Serial No. 72,392**
**In France January 31, 1948**
**5 Claims. (Cl. 214—313)**



1. In apparatus for lifting and dumping loaded cans into a vehicle body, a vehicle body, a first fixed pivot and a second fixed pivot attached to said vehicle body and said first fixed pivot being positioned above said second fixed pivot, a first longitudinal member pivotally mounted on said first fixed pivot, a second longitudinal member pivotally mounted on said second fixed pivot, a first auxiliary pivot mounted on said first longitudinal member on its end remote from said first fixed pivot, a second auxiliary pivot mounted on said second longitudinal member at its end remote from said second fixed pivot, a cross rod pivotally mounted at its ends on said auxiliary pivots, a first pulley rotatably mounted on said first fixed pivot, a supporting frame comprising trunnion means by which it is pivotally supported on said first auxiliary pivot, a can comprising a hooking bar on its upper edge, said frame comprising hooks engageable with said hooking bar, a second pulley fixedly mounted on said frame adjacent said first auxiliary pivot, a hoisting cable wound around said two pulleys and being fixed at a point on said second pulley, means for applying tractive force to said cable, a locking lug fixedly carried on said cross rod, a releasable latch carried by said frame and releasably engageable with said lug, a releasing arm carried by said first longitudinal member and engageable with said latch for releasing the same when said first longitudinal member has been raised into a determined position, and stop means fixedly carried on said vehicle body and positioned to engage said first longitudinal member and stop its pivoting movement when it has been raised into its said determined position, whereby the application of continued traction to said cable after the attainment of said determined position by said first longitudinal member causes rotation of said second pulley and dumping of said can

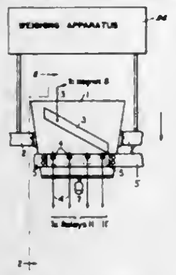
**2,646,903**
## ADJUSTABLE HOLDING DEVICE
**William H. Draper, Jr., Watertown, Mass.**
**Application July 19, 1952, Serial No. 299,869**
**5 Claims. (Cl. 217—30)**

5. A holding device comprising a receptacle embodying a bottom and four sides extending upwardly therefrom, reinforcing members at the upper portion of and attached to two of said sides opposite each other extending inwardly and being spaced from the said bottom, two outer supporting rails extending lengthwise between said reinforcing members and attached thereto and each having a groove therein extending lengthwise thereof intermediate the top and bottom from the inner side edge laterally outward part way into said rails, two inner supporting rails spaced laterally inward from said outer supporting rails and attached to two of said side reinforcing members and each having a groove therein extending lengthwise parallel with the first-mentioned groove of said outer rail and intermediate the top and bottom from the outer side edge laterally inward part way



into said inner rail, a cross bar resting on said supporting rails and extending across them and having two holes extending downwardly therethrough, and a plurality of retaining means to slidably hold said cross bar in position on said rails each embodying a bolt extending through said hole and into said space between an inner and outer supporting rail, a sliding member on said bolt and slidably extending into a pair of said inner and outer supporting rail grooves opposite each other, a nut above said sliding member and higher than said grooves and movable within the space between, and laterally opposite, an inner and outer supporting rail, a washer above said cross bar and resting thereon, and a nut screw-threadedly connected to said bolt adapted, when tightened to fixedly hold said cross bar in predetermined position.

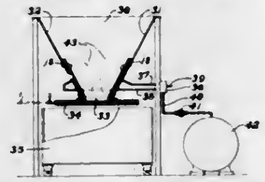
**2,646,904**
## WEIGHING DEVICE WITH ELECTRICAL VALVE CONTROL MEANS
**Georg F. Chodziesner, Bondi, near Sydney, New South Wales, Australia, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, an incorporated company of Australia**
**Application August 8, 1947, Serial No. 767,578**
**In Australia August 20, 1946**
**2 Claims. (Cl. 222—52)**



1. A weighing mechanism for automatically dispensing goods according to a preselected weight thereof, comprising: a weighing receptacle provided at the base with a pivotally mounted and counter-weighted flap closure member; electromagnetic means including a locking lug normally engaging said closure member to lock the same in closed position, but energisable to release said closure member; means displaceably mounting said receptacle for displacement in accordance with the weight of goods deposited therein; and means for energising said electromagnetic means for discharging said goods at a preselected weight thereof, said means comprising a series of stationarily mounted electrical contacts, contact means carried by said receptacle in such position with respect to the stationary contacts as to successively engage said stationary contacts with displacement of said receptacle, electrical connections from said contact means to said electromagnetic means, a plurality of selectively actuable contact keys, each key corresponding to one of said stationary contacts, switching means associated with each of said keys and electrically connected therewith for operation thereby to energise said electromagnetic means upon engagement of said receptacle contact means with the selected stationary contact, and means to lock any of said switching means by operation of a corresponding contact key and to unlock said switching means upon operation of said electromagnetic means.

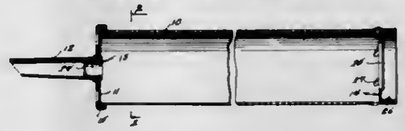


**2,646,905**
## INFLATABLE PANEL ASSEMBLY FOR STORAGE BINS
**Walter R. Vincent, Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application November 1, 1950, Serial No. 193,322**
**6 Claims. (Cl. 222—200)**



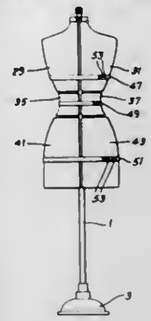
1. An inflatable panel assembly for individual mounting as a whole within a storage receptacle, said panel assembly comprising a mounting structure of stiff material for disposition internally of a walled storage receptacle in attached relation to a supporting member of the receptacle, said mounting structure having a face extending to peripheral edges thereof for facing toward the interior of the receptacle, a distensible element of elastic sheet-like material overlying and extending throughout the area of said face bounded by said peripheral edges to provide a support for flowable solid material deposited in the receptacle, said element having marginal portions extending over said face to said edges and continuing about said edges laterally thereof and attached in sealing relation to said structure at a zone thereof in proximity to said face thereof and said element being in unattached outwardly movable relation to said face throughout said area thereof to provide therewith an inflatable pocket, a stretch-resisting flexible reinforcement integral with said marginal portions and extending about said edges laterally thereof and terminating a short distance inwardly of said edges at said face to reinforce said marginal portions while accommodating extensive inflating distension of said element to an outwardly bulged shape from edge to edge acrosss said face of said mounting structure, said element within the area thereof bounded by said marginal portions including elastic material of relatively high stretchability as compared to that of said reinforcement for facilitating said extensive inflating distension of said element to effect substantial positive movement of the supported flowable material under inflation and deflation of said panel assembly so as to prevent packing and sticking of the flowable material in the receptacle, and conduit means integral with said panel assembly in communication with said inflatable pocket for facilitating the inflation and deflation of said panel assembly.

**2,646,906**
## CAULKING CARTRIDGE
**Lawrence C. Jones, University Heights, and Granville H. Shirley, Cleveland, Ohio, assignors to The Van Dorn Iron Works Company, Cleveland, Ohio, a corporation of Ohio**
**Application May 17, 1950, Serial No. 162,502**
**2 Claims. (Cl. 222—391)**



1. A cartridge for use with guns for dispensing plastic material comprising an elongated tube; a disc-shaped end closure member secured to one end of the tube, said closure member having an opening formed therein; a dispensing spout having a laterally extending flange formed on its inlet end and an internal circumferential shoulder formed therein intermediate its ends, said spout projecting through said opening with its flange engaging the inner surface of said closure member about said opening; a frangible sealing film extending across the opening in the spout at said shoulder; an open-ended tubular sealing member wedged within said spout with its outer end holding said film against said shoulder; and a movable disc-shaped end closure member closing the opposite end of the tube and adapted to serve as a piston to eject the contents of the tube through the spout.

**2,646,907**
## DRESS FORM
**Eva Clawsey and John D. Clawsey, New York, N. Y.**
**Application March 14, 1952, Serial No. 276,566**
**2 Claims. (Cl. 223—68)**

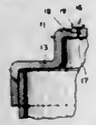


1. A dress form, including, in combination, a plurality of partial body contour simulating divisions, the divisions arranged in sets, one above the other, the top set being a bust set, the next set below being a waist set, and the lowest set being a hip and thigh set, each set including a plurality of sections, a central standard about which the sections are positioned, a section sup-

port attached to each section, spiders, one for each set, each spider formed with a portion positioning it along the standard and including arms extending radially from the standard, each arm receiving and supporting a section support, elastic means between each arm and each section support biasing the section support away from the standard, adjustable straps, one for each set, each strap surrounding a set whereby the sets may be independently varied in girth between a minimum and maximum.

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**2,646,908**
**SEWING KIT**
**Edward K. Madan, Maplewood, N. J.**
**Application June 22, 1950, Serial No. 169,570**
**3 Claims. (Cl. 223—107)**



1. In a sewing kit, a base having an indented central portion, a first annular flange disposed perpendicularly to the axial line of said base about the open end of said indented central portion, spaced spool holding posts formed integrally with said indented central portion and the inner circumference of said annular flange and disposed parallel to the axial line of said base, an upturned support about the perimeter of said annular flange, a transparent annular side wall of predetermined height greater than said spool holding posts mounted in said upturned support, a plurality of openings provided in said sidewall spaced adjacent said posts to permit the ends of thread from spools to be mounted on said posts to be inserted through said openings, a removable cover having an indented central portion, a second annular flange disposed perpendicularly to the axial line of said base about the open end of the indented central portion of said cover to form a manual gripping means with said first annular flange when said cover is in the closed position, a downwardly depending lip about the perimeter of said second annular flange adapted to slidingly engage said transparent sidewall whereby said second annular flange will be brought into abutting relationship with the upper end of said transparent sidewall to dispose the second annular flange above the spools to be mounted on said spool holding posts to prevent disiodgment thereof upon movement and tilting of said kit.

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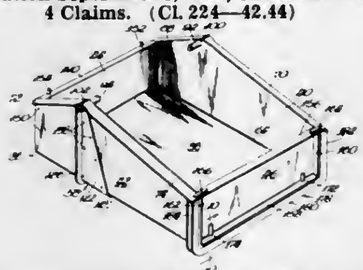
**2,646,909**
**SIDE RACK FOR VEHICLES**
**Carl G. Barden, Woodland, Calif.**
**Application April 12, 1952, Serial No. 282,069**
**2 Claims. (Cl. 224—42.03)**



1. In a motor vehicle side rack, a load carrying cradle comprising a fixed laterally projecting top bar having an upstanding jaw on its outer end, a bottom bar projecting laterally out from under and slidable against the top bar and having an upstanding jaw on its outer end, means slidably mounting the bottom bar for longitudinal movement relative to the top bar, said means comprising side plates depending from the top bar adjacent its outer end and guide blocks extending between the plates under the lower bar and spaced apart lengthwise of said bar; a rotary cross shaft journaled in the plates below said space, an element on the shaft between the plates forming a cam to engage the underside of the lower bar and clamp the same against the top bar upon rotation of the shaft in one direction, spring means to so rotate the shaft, and an upstanding lever on the shaft outwardly of the side plates to rotate the shaft in the opposite direction.

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**2,646,910**
**TRACTOR TRANSPORT BOX**
**Roy Wiersching, Carbon Cliff, Ill.**
**Application September 8, 1949, Serial No. 114,479**
**4 Claims. (Cl. 224—42.44)**



1. A transport box of the character described, comprising: a horizontal floor; a pair of elongated side walls joined to and extending upwardly from the floor; each side wall having inner and outer surfaces, opposite ends, and a pair of angularly related upper edges meeting at a junction intermediate said ends and diverging respectively toward said ends so that at least one of said edges inclines downwardly toward one end; means including a pair of flanges respectively on and along the upper edges of each side wall, said flanges on each side wall projecting outwardly to overhang the outer surface of that side wall and substantially meeting at the junction of the related upper edges; means providing apertures respectively through the side walls and alined on a transverse horizontal axis immediately below the junctions of the related upper edges; a pair of trunnion pins projecting outwardly respectively through the apertures to be overhung by the meeting flanges; a pair of side members respectively lying along the outer surfaces of the side walls and apertured to respectively receive the trunnion pins, each member having an upright, outwardly projecting flange lying closely alongside the associated trunnion pin and substantially meeting one of the related upper edge flanges to provide, with the associated upper edge flanges, a box-like structure partially surrounding the associated trunnion pin; and each of said trunnion pins being welded to the associated upper edge flanges and to the associated member flange.

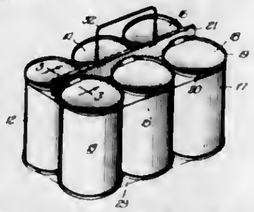
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**2,646,911**
**CONTAINER CARRIER**
**Lawrence O. Holmberg, Winnetka, Ill.**
**Application August 19, 1949, Serial No. 111,143**
**13 Claims. (Cl. 224—45)**

1. A carrier for containers having projecting top rims comprising a body having a U-shaped



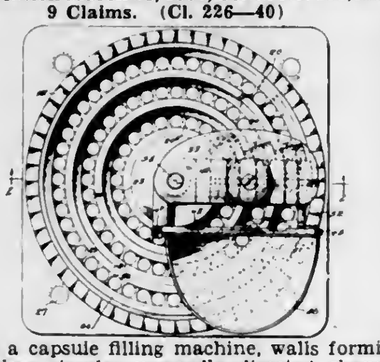
cross-section and having oppositely disposed slots in the sides thereof, the portions below said slots being curved to conform to the contour of the side walls of the containers and portions of said body along the bottom edges of said slots



providing supports for said rims, the portions above said slots being curved to conform to the inner surfaces of said rims and positioned to engage said inner surfaces when said rims are supported along said lower edges.

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**2,646,912**
**APPARATUS FOR AND METHOD OF FILLING CAPSULES**
**Robert Reveno, Philadelphia, Pa.**
**Application March 23, 1950, Serial No. 151,329**
**9 Claims. (Cl. 226—40)**

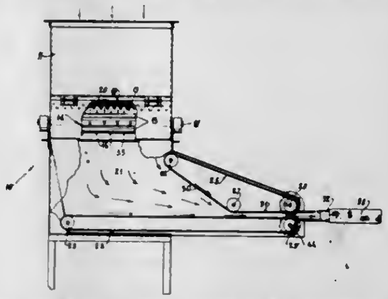


1. In a capsule filling machine, walls forming an endless circular upwardly directed channel having sockets distributed around the channel into which capsule halves fit, a wiper arm pivoted adjacent the center of the channel, a wiper of resilient material on the wiper arm riding the channel in contact therewith above the tops of the capsules and a cylindrical resilient roller rotatably mounted on the wiper arm ahead of the wiper in the direction of motion and continuously engaging the bottom of the channel during circular motion around the channel.

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**2,646,913**
**FILLING MACHINE WITH ENDLESS BELT CONVEYERS FOR FIBROUS MATERIALS**
**Max Goldberg and Robert J. Goldberg, New York, N. Y.**
**Application October 8, 1951, Serial No. 250,348**
**2 Claims. (Cl. 226—45)**

1. In a machine for feeding and stuffing fibrous materials into casings, comprising an open top chamber for receiving fibrous materials, an endless conveyor comprising pronged carrier bars movably mounted on the floor of said chamber, said prongs being in spaced apart relation over the entire length of said carriers respectively and being adapted to assume an upright position while passing through said chamber, said chamber having two end walls and an opening in the lower portion of each of said walls permitting said pronged carrier bars to pass therethrough, an upright chute connected with an end portion of said receiving chamber and extending below said receiving chamber, an endless conveyor belt rotatably mounted horizontally at the lower level of said chute, a further endless conveyor belt rotatably mounted in said chute above said first conveyor belt and having a portion in converging relation with said lower belt, said upper conveyor belt also having a lower portion thereof in substantially parallel relation with the



upper surface of said horizontal conveyor belt, a nozzle positioned in substantially tangent relation with one end portion of said conveyor belts and in position to receive fibrous material fed thereinto by said conveyor belts, and means for rotating said conveyor belts in timed relation to cause the fibrous filling material deposited in said chute to be compressed by said converging portion of said conveyor belts and then forcibly fed by said parallel portions of said belts through said nozzle.

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**2,646,914**
**REINFORCED TRAY**
**Chester E. Claff and Carl A. Moeller, Randolph, Mass., assignors to Norfolk Paper Company, Inc., Randolph, Mass., a corporation of Massachusetts**
**Application June 6, 1947, Serial No. 752,980**
**2 Claims. (Cl. 229—32)**



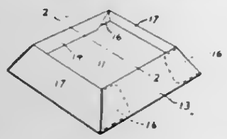
1. A box comprising a bottom, sides having inturned end extensions, and ends adhesively secured to said extensions, all integrally formed from a single layer of cardboard or the like, the top edges of the sides and extensions being provided throughout their length with a downwardly extending cleft, a re-inforcing cord throughout its length partly embedded within and partly exposed outside the cleft and adhesiveiv secured therein, and a thin cover paper extending over the outer surfaces of the sides and extensions around the cord, and onto the inner surfaces of the sides and extensions and adhesively secured directly to such outer and inner surfaces adjacent the cord and also adhesively secured to the exposed part of the cord.

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**2,646,915**
**FOLDING BOX**
**Arthur Bockmann, Chicago, Ill.**
**Application March 6, 1948, Serial No. 13,387**
**8 Claims. (Cl. 229—34)**

1. A receptacle of the character described formed from a single sheet of material cut,

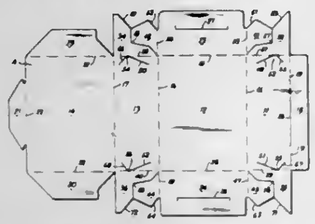
scored and folded along predetermined lines to provide a container of truncated pyramidal shape having a bottom panel and an even number of upwardly and inwardly inclined sides with alternate sides of like formation and all sides sloping upwardly and inwardly at an angle less than 90° from the bottom panel, each of one set of alternate sides comprising an outer side panel and an inner side panel each of substantially a single unit of height and distinguished from the bottom panel and from one another, respectively, by score lines substantially parallel to one another and to the plane of the bottom panel, the end edges of the outer side panel being tapered upwardly to the junction with the inner side panel at an angle to said score lines approximately equal to the angle of inclination of the sides relative to the bottom panel, and the maximum overall length of the inner side panel between its opposite end edges being no greater than the correspondingly measured minimum



overall length of the outer panel between its opposite end edges, each of the other set of alternate sides comprising a panel distinguished from the bottom panel by a score line substantially parallel to the plane of the bottom panel and having a tab on each end thereof distinguished by a score line inclined upwardly and toward the opposite end of such panel at an angle approximately equal to the said angle of inclination of the sides, said tabs being folded along the last said score lines to lie against the inner faces of the respectively adjacent outer side panels of the first said set of alternate sides and when so folded extending upwardly no higher than one of said units of height, the inner side panels of the first said set of sides being folded inwardly and downwardly over an adjacent tab of each of the respectively adjacent side panels of said other set of alternate side panels and to an inclined position substantially parallel to the adjacent outer panel.

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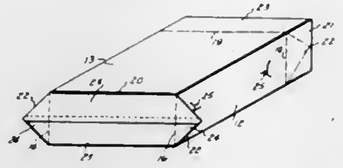
**2,646,916**
**CORNER CONSTRUCTION FOR FOLDING BOXES**
**Reginald B. Meller, Oakland, Calif., assignor to Bemiss-Jason Company, San Francisco, Calif., a corporation of California**
**Application November 30, 1949, Serial No. 130,229**
**9 Claims. (Cl. 229—35)**



1. A glueless corner construction for folding boxes, comprising a base panel; a first wall panel hingedly extending from the base panel along a first base fold line; a second wall panel hingedly extending from the base panel along a second base fold line forming an angle with said first base fold line; a corner flap hingedly extending from said first wall panel along a first side fold line, said first wall panel having an internal cut of bent outline therein forming an internal tongue in said first wall panel, the tongue pointing towards, and extending substantially to, said first side fold line, whereby an aperture is automatically formed at the corner upon folding of said flap with respect to said first wall panel; and a lock tab hingedly extending from said second wall panel along a second side fold line which second side fold line lies in substantial coincidence with said first side fold line when said panels are in corner forming position, said lock tab being insertable through said aperture and said cut to underlie said first wall panel and said internal tongue and having a bordering locking edge extending from said second side fold line adapted to engage said internal cut in said first wall panel adjacent said first side fold line when said panels are in corner forming position.

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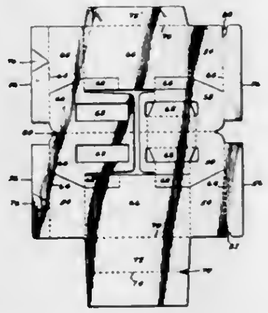
**2,646,917**
**CARTON AND CLOSURE THEREFOR**
**George W. Smith, St. Louis, Mo.**
**Application February 2, 1949, Serial No. 74,191**
**2 Claims. (Cl. 229—37)**



1. A carton formed of a rectangular blank and including, enclosing side body walls, end closure sections foldably connected with adjacent carton side body walls and with the adjacent end closure sections and adapted to be folded to close the end of the carton, fold creases formed in two opposite end closure sections providing for folding said sections to form triangular locking flaps adapted to be folded against the adjacent side body walls, and receiving means on said adjacent side walls for receiving the apexial end of the triangular flaps for releasably holding said flaps against such side body walls, said receiving means comprising substantially Y-shaped slots provided in said adjacent side body walls, each of said slots having a longitudinal end portion and divergent arm portions extending from said longitudinal end portion toward the triangular flap and disposed to receive the apexial tip end of the triangular flap, said tip end of the flap extending longitudinally beyond the divergent arms and the longitudinal end portion of the slot extending longitudinally beyond the apexial tip end of said flap, said apexial ends of the triangular flaps being insertable through said longitudinal end portions of said slots by pressing said apexial tip ends through said longitudinal end portions without bending said flaps, the portions of said body walls adjacent the longitudinal end portions flexing to permit entry of the apexial tip ends of the triangular flaps and engaging said tips to restrain the tips thereunder and in the divergent arm portions of the Y-shaped slots.



**2,646,918**
**BOTTLE CARRIER**
**Homer W. Forrer, Atlanta, Ga., assignor to Atlanta Paper Company, a corporation of Georgia**
**Application September 30, 1949, Serial No. 118,770**
**4 Claims. (Cl. 229—41)**

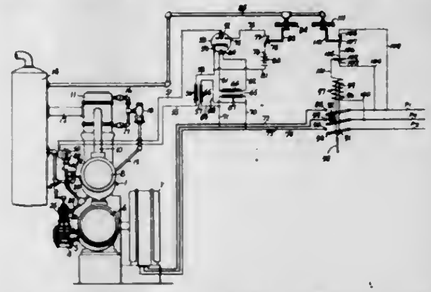


1. In a carrier for bottles and other similar containers, of the type including a bottom wall panel, opposed side wall panels associated with said bottom wall panel, and a handle portion for said carrier arranged centrally with respect to said side wall panels, the improvement which comprises a medially foldable bottom wall panel adapted for collapsing inwardly between said side wall panels, and opposed pairs of end panels extending from said side wall panels in an extent completely closing the ends of said carrier, each panel of said opposed pairs of end panels being foldably joined at the edges thereof remote from said side wall panels to a reinforcing flap extending downwardly from said handle portion whereby said pairs of end panels are likewise foldable medially of said carrier to a collapsed position, said reinforcing flaps extending for the full height of said end panels and being arranged for disposition at right angles to said end panels whenever the carrier is in erect position and for folding flat with respect to said end panels when the carrier is collapsed, the reinforcing flaps joined to one pair of said end panels being free of each other below said handle portion and thereby allowing inward folding of said bottom wall panel for collapsing between said side wall panels, and the reinforcing flaps joined to this pair of end panels being formed with bellows folds adjacent said handle portion and thereby adapted for easy displacement as necessary in allowing inward folding of said bottom wall panel.

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**2,646,919**
**COMPRESSOR CONTROL SYSTEM**
**Jess M. Bartholomew, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Application April 14, 1945, Serial No. 588,379**
**1 Claim. (Cl. 230—26)**

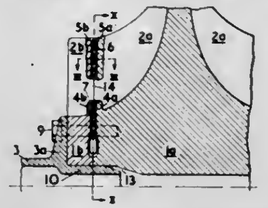
In combination, a compressor, a driving motor for said compressor, a starting switch for said motor, magnetically controlled unloading means for said compressor, an electronic tube including an anode, cathode, heater and grid, a control circuit for said magnetically controlled unloading means including the cathode and anode of said electronic tube, means controlled by opening and closing of said starting switch for energizing said heater upon closure of said starting switch, and means governed by compressor discharge pressure for energizing said grid upon



the attainment of compressor discharge pressure to a predetermined value.

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**2,646,920**
**ROTARY BLADED OR LIKE ASSEMBLY**
**Edgar Malcolm Butcher, Blaby, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company**
**Application December 6, 1948, Serial No. 63,788**
**In Great Britain December 13, 1947**
**4 Claims. (Cl. 230—134)**



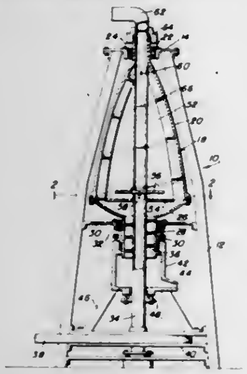
1. A rotary bladed impeller structure comprising a hub, a series of blades radiating from said hub, individual blades being divided along a plane of rotation into at least two sections having their adjacent edges in close proximity, each of said adjacent edges having a groove extending there-along from the hub to the neighborhood of the blade tip, to form in each blade a radially extending tapered cavity which measured in the plane of rotation of the blade division is smallest near the tip and biggest near the hub, in combination with a wedge-shaped plug lying in said groove and proportioned to fit the said cavity when moved radially outwards under the action of centrifugal force, so that accordingly it wedges in the grooves and keys the adjacent blade sections together.

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**2,646,921**
**DEVICE FOR SEPARATING OIL FROM WATER**
**James S. Adams, Long Beach, and Paul E. Wilson, Tujunga, Calif.**
**Application August 31, 1951, Serial No. 244,674**
**2 Claims. (Cl. 233—1)**

1. In a centrifugal separator, a support, an elongated vertically disposed housing mounted in said support for rotation about its axis, said housing having longitudinally curved downwardly diverging sides and a bottom, a hollow shaft extending axially through said housing, a plurality of impeller blades in said shaft spaced from said bottom, fluid inlet ports in said shaft adjacent the enlarged lower end of said housing, discharge openings in said shaft adjacent the upper end of said housing for eductingthe lighter com-

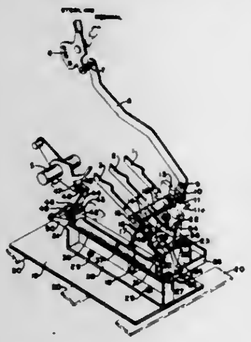
ponents of the fluid being separated, a discharge duct on said bottom concentric of said shaft for discharging the heavier components of said fluid being separated, and means for rotating said shaft, and a helical member secured to said shaft and engaging said duct for retaining said housing concentric on said shaft and for withdrawing



the heavier components of said fluid being separated, a plate secured to the lower ends of said blades, a disk secured to said shaft and extending therethrough above said blades, said discharge openings being between said plate and disk whereby the fluid introduced into said housing is rotationally accelerated by said blades and centrifugally urged outwardly.

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**2,646,922**
**CALCULATING MACHINE**
**Maxwell Edward Sime, Bayswater, London, England, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Application July 12, 1950, Serial No. 173,365**
**In Great Britain July 25, 1949**
**6 Claims. (Cl. 235—60)**

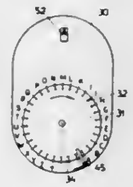


1. In a calculating machine having in each of ascending denominational orders groups of individually operable digit keys, that group in the lowest order consisting of eleven pence-representing keys, that group in the second order consisting of nine units-of-shillings-representing keys, that group in the third order consisting of nine tens-of-shillings-representing keys, and those groups of the higher orders consisting of nine keys each representing units-of-pounds in ascending decimal orders; a movable stop bar for each denominational order, each of which is controlled in the extent of its movement from a normal position by the associated group of keys, according to the digit value of an operated key; a main operating means operable in a machine cycle to cause the stop bars to move under control of the associated keys; zero stop means for each stop bar, said zero stop means normally holding the associated stop bar from data-entering movement in a machine operation if no key associated therewith is operated, but movable from said holding position if an associated key is operated; a sterling totalizer including a totalizer pinion for each denominational order and transfer mechanism between each two adjacent orders for entering one unit of data during a machine operation into a higher order totalizer pinion from the next lower pinion, when required, the pence pinion having a capacity of 12 and causing a transfer in a machine cycle if it exceeds its capacity due to an entry therein, the units-of-shillings pinion having a capacity of 10 and causing a transfer in a machine cycle if its capacity is exceeded due to an entry therein, the tens-of-shillings pinion having 10 teeth causing a transfer of a unit on every second digit entry, and the pinions for the decimal orders of units-of-pounds each having a capacity of 10 and each causing a transfer in a machine cycle if it exceeds its capacity due to an entry therein; a decimal totalizer having a pinion for each of said denominational orders and transfer mechanism between each two adjacent orders for entering during a machine operation one unit of data into a higher order pinion from the next lower pinion ,when required, each of said decimal totalizer pinions having a capacity of 10 and causing a transfer when during a machine cycle its capacity is exceeded, due to an entry therein; a differential actuator for each order, each actuator having a sterling rack and a decimal rack; totalizer engaging mechanism for engaging one or the other of the totalizers with its associated racks during a machine cycle for item-entering; and means selectively movable for coupling the associated stop bar and differential actuator in adding operations for giving the actuator the equivalent movement of the associated stop bar or the complement thereof for subtracting operations, the complementary movement for the lowest order being on a base of 12 for the sterling rack and on a base of 10 for the decimal rack, the complementary movement of all the other actuators being on a base of 9 for their respective racks; the combination of totalizer selecting means selectively operable to determine which totalizer shall be engaged with the differential actuators during the next ensuing machine cycle; and blocking means moved to block and thus limit the movement of the tens-of-shillings stop bar to one unit when the totalizer selecting means is set to have the sterling totalizer engage the differential actuators on the next item-entering machine operation, and said blocking means being moved to ineffective position when the totalizer selecting means is set to have the decimal totalizer engage the differential actuators on the next item-entering machine operation.

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**2,646,923**
**DEVICE FOR DETERMINING CHECK SYMBOLS**
**Theodorus Reumerman, Zandvoort, and Willem Hendrik Theodoor Helmig, Leiden, Netherlands**
**Application August 27, 1948, Serial No. 46,494**
**In the Netherlands August 30, 1947**
**15 Claims. (Cl. 235—61)**

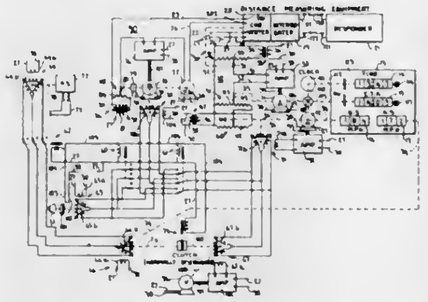
5. A device for determining a check symbol for a symbol group composed of symbols selected from a given symbol series, comprising a telephone type dial for selecting the symbols of said series, a toothed wheel coupled with said dial at least during each forward movement thereof, an indicator having two scales, on which rows of check symbols are arranged in opposite order, a second toothed wheel coupled with said indicator, a rocking member, two sets of gear wheels carried by said rocking member, being in continuous engagement with said first-mentioned toothed wheel, and alternately engaging said second



toothed wheel, according to the position of said rocking member, so as to drive said indicator in alternate directions, means attached to said rocking member for alternately making a portion of one scale and a portion of the other scale visible, a cam on said rocking member, a cam disc engaging said cam so as to determine the position of said rocking member, and means actuated together with said dial for displacing said cam disc over one position after each forward movement of said dial.

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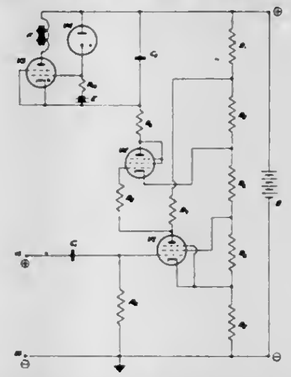
**2,646,924**
**COMPUTER FOR ESTIMATED TIME OF ARRIVAL**
**Oscar Hugo Schuck, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application November 29, 1948, Serial No. 62,482**
**11 Claims. (Cl. 235—61)**



1. In a device of the class described, in combination; means responsive to the ground speed of a craft in a selected direction; means responsive to the distance, in said direction, from a craft to a destination; an indicator; a balanceable system including components adjustable in accordance with the responses of said responsive means and a further component variable to balance said network for various adjusted conditions of said components; means responsive to present time; and means actuated by said last named means and by any unbalance of said system to simultaneously rebalance said system and operate said indicator to an indication of the estimated time of arrival of said craft at said destination.



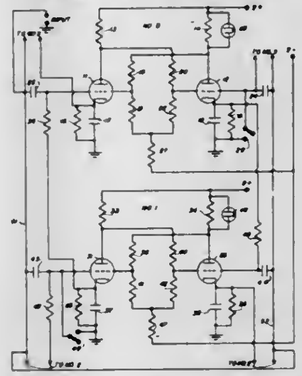
**2,646,925**
**ELECTRICAL INTEGRATOR**
**Murray Bevis, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission**
**Application August 12, 1946, Serial No. 689,998**
**7 Claims. (Cl. 235—92)**



1. Apparatus for integrating the intervals of duration of electrical pulses comprising, a parallel circuit, said circuit having a condenser in one path thereof, a first gas tube in another path thereof, and a second gas tube and a counter arrangement in series in still another path thereof, said gas tubes being connected in their respective paths so that their respective plate-cathode currents form the respective path currents, and means responsive to said pulses for causing to flow into said parallel circuit for the duration of said pulses a current which is substantially constant and independent of the intensity and duration of said pulses.

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**2,646,926**
**MULTIPLE-DECADE DIFFERENTIAL COUNTER**
**Larry L. Young, Pasadena, Calif., and Raymond M. Wilmotte, Washington, D. C., assignors, by direct and mesne assignments, to Padevco, Inc., Washington, D. C., a corporation of Delaware**
**Application September 26, 1947, Serial No. 776,324**
**4 Claims. (Cl. 235—92)**



1. A reversible electronic multi-decade counter comprising a plurality of reversible decade ring counters each arranged to count reversibly in response to input signals of alternative character

occurring at random and each having a plurality of Eccles-Jordan flip-flop circuits arranged in cascade, each of said flip-flop circuits having two stable equilibrium states, one of said states representing a count and only one of said circuits being in the count representing state, circuit connections from each flip-flop circuit to the next preceding and next following circuit for impressing potentials on said next preceding and next following circuits for conditioning said next preceding and next following circuits so that the count representing state will be transferred to the next following circuit in response to a first predetermined type of pulse and to the next preceding circuit in response to a second predetermined type of pulse, and a pulse generating circuit having its input connected to a first of said plurality of decade ring counters, said pulse generating circuit having means for impressing a pulse of the first type on a second of said plurality of decade ring counters in response to the completion of a decade of counts in said first decade ring counter and impressing a pulse of the second type on said second of said plurality of decade ring counters in response to the cancellation of a completed decade of counts in said first decade ring counter, whereby the second decade ring counter algebraically counts the number of complete decades while the first decade ring counter algebraically counts the individual pulses.

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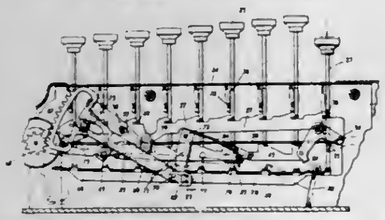
**2,646,927**

## INTERLOCKING MECHANISM FOR CALCULATING MACHINES

**Christopher Frederick Webb, Uxbridge, England, assignor to Bell Punch Company Limited, London, England, a British company**

**Continuation of abandoned application Serial No. 535,330, May 12, 1944, which is a continuation of abandoned application Serial No. 308,347, December 9, 1939. This application January 17, 1951, Serial No. 206,472. In Great Britain December 19, 1938**

**17 Claims. (Cl. 235—130)**



10. A calculating machine comprising a plurality of banks of keys, means for preventing full restoration to normal positfon of all of a plurality of substantially simultaneously depressed and thereafter simultaneously released keys of which one is incompletely depressed before its release, and means for preventing depression, from the position attained under the action of said preventing means, of any key fully depressed during said simultaneous depression of keys.

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**2,646,928**

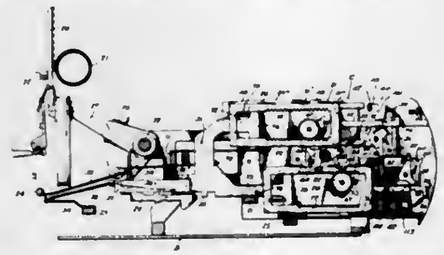
## TENS TRANSFER MECHANISM

**Charles A. Parker, Knoxville, Tenn., assignor to Rainey Accounting Machine Company, Inc., Knoxville, Tenn., a corporation of Tennessee**

**Application August 10, 1949, Serial No. 109,570**

**10 Claims. (Cl. 235—137)**

5. In a transfer mechanism including racks mounted for reciprocal movement and limited in shifting movement in one direction to normal non-transfer position and to position for effecting transfer, pinions rotatable thereby when in operative engagement, stop members mounted for independent shifting movement between normal position and position for conditioning to permit movement of the adjacent rack to transfer posi-



tion, means responsive to engagement between said stop member with said pinions for operating said stop member to establish transfer conditions, and means constantly urging said stop member independently to return to normal position notwithstanding retention of transfer conditions and upon disengagement with the pinion.

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**2,646,929**

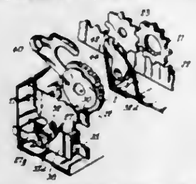
## INDEPENDENT ACTUATOR TENS TRANSFER DEVICE

**Robert Gourdon, Paris, France, assignor to Societe Anonyme dite "Centre d'Etudes M. B. A." (Mecanique, Balistique, Armement), Paris, France**

**Application November 14, 1947, Serial No. 785,976**

**In France November 19, 1946**

**14 Claims. (Cl. 235—137)**



1. A counter for calculating machines or the like comprising numeral wheels, driving gears fixed to the respective numeral wheels, a first shaft supporting the wheels for independent rotation, means for independently driving said gears to vary the angular positions of said numeral wheels, a cage carrying said shaft and wheels, a second shaft parallel to and spaced from said first shaft and pivotally supporting said cage, means for rotating said cage on said second shaft between an active position wherein said gears engage said driving means and an indicating position wherein said numeral wheels may be observed, carry-over gears on said second shaft and engaging said wheel driving gears, means for selectively locking said carry-over gears, each said carry-over gear being effective when it is locked and the cage is moved from its active position to its indicating position to cause a rolling movement of the associated driving gear sufficient to advance the associated numeral wheel one step, and means operated by movement of each numeral wheel from "9" to "0" to operate the locking means for the carry-over gear of next higher order, so that upon the succeeding operation of the cage rotating means, the numeral wheel of next higher order will be advanced one step.



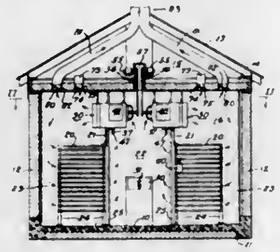
**2,646,930**

## INCUBATOR WITH AUTOMATIC TEMPERATURE AND HUMIDITY CONTROL

**Horace W. Dryden, Modesto, Calif.**

**Application December 10, 1948, Serial No. 64,554**

**5 Claims. (Cl. 236—2)**



1. A walk-in incubator comprising an insulated building; a ceiling in said building dividing it into a machnery-housing attic and an incubation room; at least one row of tray-supporting racks, spaced from the walls in said room, from each other, and from said ceiling so that the racks occupy less than one-third of the volume of said incubating room; vertical partitions cooperating with said racks, said ceiling, and the walls of said room to divide said room into a service chamber on the front side of each rack and a pressure chamber on the back side of each rack; a door through the walls of said room opening into said service chamber; and means supported in said partitions for forcing air from said service chamber into said pressure chamber, the pressure in said pressure chamber subsequently causing the air to flow back into said service chamber horizontally through said racks, said air-forcing means comprising an apparatus for circulating down-free air while regulating its humidity, and including a housing supported in said partition above said racks, a fan adjacent the service chamber end of said housing and adapted to force air through said housing, means in said housing adapted to send a subdivided flow of water in the path of the air passing therethrough, means to vary the temperature of said water, and a drain opening in said housing for moving excess water therefrom.

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**2,646,931**

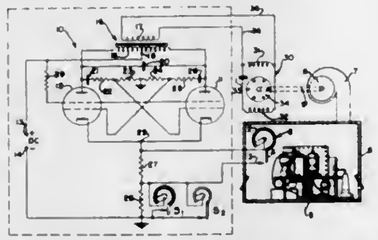
## CONTROLLABLE POWER SOURCE FOR ALTERNATING CURRENT BLOWER MOTORS

**Henry Suter, Wellesley, Mass.**

**Application March 22, 1949, Serial No. 82,891**

**8 Claims. (Cl. 236—49)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**



3. In a system for controlling the ambient temperature of electronic apparatus by regulating the flow of cooling air over said apparatus, in combination, an air blower, an alternating current motor adapted to drive said blower, a source of direct current energy, an electronic oscillator having a plurality of electron tubes biased from said source to generate an output of substantially constant frequency, means connecting said motor to the output of said oscillator, means responsive to the ambient temperature of said apparatus to vary the bias of said tubes to control the output voltage of said oscillator, and means responsive to the pressure and temperature of the intake air of said blower to vary the bias of said tubes to control the output voltage of said oscillator, whereby the speed of said motor and the flow of cooling air from said blower are controlled to maintain the ambient temperature of said apparatus substantially constant.

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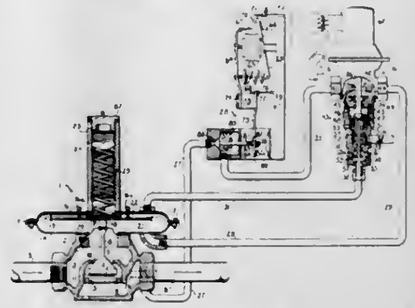
**2,646,932**

## MODULATING GAS CONTROL

**Robert C. Frost, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin**

**Application February 16, 1950, Serial No. 144,533**

**5 Claims. (Cl. 236—80)**



1. An apparatus for passing fluid to a fluid consuming device comprising: a main valve having inlet and outlet chambers, a valve member movable to vary the fluid flow through said main valve, means including a movable wall forming a first pressure chamber above said wall and a second pressure chamber below said wall, means connecting said wall and said valve member for movement thereof, a control fluid passage connecting said first and second chambers, a restricted gas passage connecting said inlet chamber and said second chamber, a multiple control valve for said main valve operable to an energized position and an energizing device cooperating with said control valve for closing said control fluid passage, connecting said first chamber to atmosphere, and connecting said second chamber to said main valve outlet chamber upon operation of said control valve to said energized position.

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**2,646,933**

## AUTOMATIC CARBURETOR CHOKE CONTROL

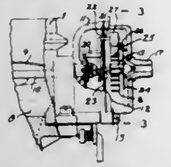
**Leonard D. Boyce, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware**

**Original application May 9, 1947, Serial No. 747,029, now Patent No. 2,533,551, dated December 12, 1950. Divided and this application September 22, 1950, Serial No. 186,286**

**4 Claims. (Cl. 236—101)**

4. In an automatic choke control for a carburetor, a casing having a pintle projecting from a wall thereof, a thermostatic coil centrally secured to said pintle, and a bumper spring also

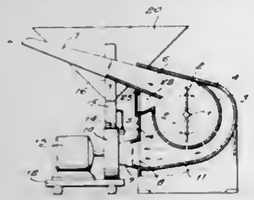
secured to said pintle with a portion disposed in the path of movement of the choke operative



outer portion of said thermostat so as to resist a portion of the thermostat action.

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**2,646,934**
**HAMMER MILL AND BLOWER ARRANGEMENT**
**Bela T. Sandor, Ayr, Scotland**
**Application December 14, 1951, Serial No. 261,614**
**In Great Britain November 27, 1950**
**6 Claims. (Cl. 241—186)**

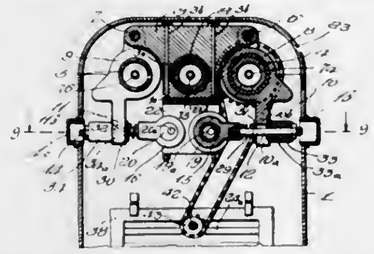


1. In a hammer mill arrangement in combination, a rotatable hammer mill rotor creating an outwardly directed air current; a perforated part cylindrical screen member extending partly around said rotor so as to form an open inlet passage while simultaneously permitting passage of disintegrated material through the screen perforations; a casing enclosing said screen member and including an at least partly curved duct wall having an end portion located adjacent to said screen member and extending from said end portion so that its other end portion is located spaced from said screen member so as to form between itself and said screen member a diverging duct; blower means; and a straight converging duct means arranged in direction of and aligned with said diverging duct in said casing and secured with its wider inlet and to said casing communicating with diverging duct and at its narrower outlet end to said blower means, so that the combined air current produced by said hammer mill rotor and said blower means forces the disintegrated material through said screen member into said divergent duct and from there to the convergent duct means into said blower means without changing the direction of flow of said disintegrated material.

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**2,646,935**
**MULTIPLE ROLL MILL WITH MEANS FOR SPACING THE ROLLS WHILE BEING ROTATIVELY DRIVEN**
**Marley G. Hill, Brooklyn, N. Y., assignor to Charles Ross & Son Company, Brooklyn, N. Y., a corporation of New York**
**Application October 28, 1949, Serial No. 124,221**
**6 Claims. (Cl. 241—233)**

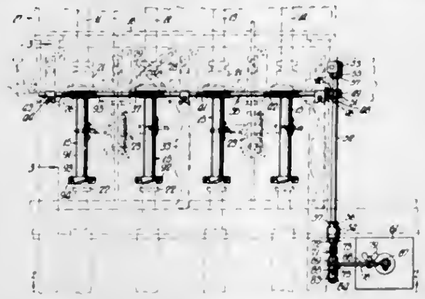
1. A roller mill for grinding and dispersing paint and the like comprising a frame structure, a middle roll, journals for said middle roll carried by said frame structure, suspension plates extending from the journals of said middle roll, means supporting said suspension plates from said frame, roll bearing supports pivotally and pendently suspended by said suspension plates, front and rear rolls journaled in said roll bearing supports on opposite sides of said middle roll, lug portions depending from said roll bearing supports and resilient means engaging said lug portions for controlling the positions of said roll



bearing supports with respect to said middle roll for yieldably controlling the spacial relation of said front and rear rolls with respect to said middle roll, and cam bearings yieldably connected with the lug portions of said roll bearing supports and disposed in a plane extending beneath said rolls.

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**2,646,936**
**THREAD END RELEASE AND CUTTING MECHANISM**
**Harry T. O'Neill, Jr., New Bedford, Mass., assignor to The Continental Elastic Corporation, a corporation of Massachusetts**
**Application February 6, 1951, Serial No. 209,588**
**8 Claims. (Cl. 242—19)**



3. A machine for winding thread upon a bobbin of the type having a flange end, said machine comprising a bobbin driving head, a bobbin presser head, thread gripping means on one of said heads, means to position a thread between said gripping means and the outer face of such flange, means to effect axial movement of one of said heads with respect to the other to hold a bobbin therebetween and to move the outer face of such flange end against the associated gripping means to hold the end of such thread, means to rotate said bobbin driving head and such bobbin to wind layers of thread thereon, means to position such retained end of thread as such bobbin is rotating so that it extends across the periphery of such bobbin flange and means to sever such retained end at the portion thereof extending across such periphery while such bobbin is rotating, said means comprising a cutting knife positioned adjacent the periphery of such flange end of the bobbin and normally spaced therefrom, an actuating rod having a longitudinal slot therein, said knife having a portion positioned in said slot, means securely yet releasably to retain said knife in said slot, and means to reciprocate said rod to move said knife toward said flange periphery into the path of movement of the retained end of thread across the periphery of such flange.



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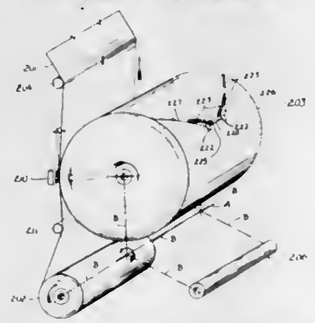
**2,646,937**
**TEXTILE APPARATUS**
**Elmer L. Johnson, Pearisburg, and Carl R. Delagrange, Ripplemead, Va., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware**
**Application June 23, 1949, Serial No. 100,862**
**15 Claims. (Cl. 242—35.5)**



1. In a device for simultaneously winding a plurality of yarn packages, the combination with a plurality of spindles for supporting and rotating the yarn packages and a frictional contact spindle brake for each spindle, of automatic means for operating on said spindle brakes in predetermined order to cause the latter to halt the rotation of said spindles.

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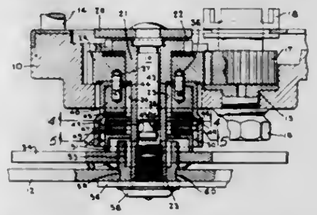
**2,646,938**
**WEB ROLL RENEWING**
**William C. Wieking, Woodhaven, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York**
**Original application August 19, 1946, Serial No. 691,422, now Patent No. 2,596,189, dated May 13, 1952. Divided and this application August 31, 1948, Serial No. 47,123**
**3 Claims. (Cl. 242—58)**



1. The method of preparing a replacement web roll for a roll change in a web printing press, which includes forming the web end of the replacement roll in the shape of a truncated V, securing said web end to the next lower course of the web roll by circumferentially extending adhesive tabs disposed at the angles between the straight leading edge and the receding angular edges, affixing reinforcing strips to the surface of the web extending from behind said securing tabs to points on said angular edges, and coating the surface of said web end between said securing tabs, and the surfaces of said reinforcing strips, with an adhesive.

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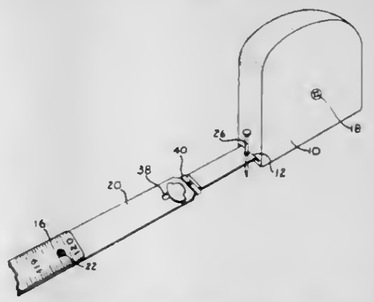
**2,646,939**
**FISHING REEL CONSTRUCTION**
**Stephen G. Hirsch, Philadelphia, Pa., assignor to Ocean City Mfg. Co., Philadelphia, Pa., a corporation of Pennsylvania**
**Application August 15, 1949, Serial No. 110,391**
**6 Claims. (Cl. 242—84.5)**



1. In a fishing reel comprising a pair of spaced parallel end plates having a spool rotatably mounted therebetween and a gear drivably connected to the spool, a member rotatably mounted in said reel and extending outwardly through an opening in one of said end plates, a driving gear rotatably carried by said member in engagement with said first gear, a drag cup positioned about said member and extending inwardly through said end plate opening into engagement with said driving gear, means drivably connecting said drag cup with said driving gear, friction drive means disposed about said member interiorly of said cup interconnecting said member with said cup, and mechanism including a rotatable star wheel operable to exert pressure on said friction drive means and drivably interconnect said member with said cup to cause rotation of the driving gear upon similar rotation of said member.

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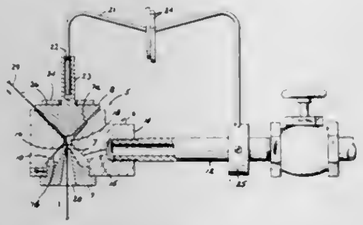
**2,646,940**
**COILABLE RULE WITH A DETACHABLE CONNECTION**
**Frederick A. Volz, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut**
**Application September 9, 1949, Serial No. 114,726**
**1 Claim. (Cl. 242—84.9)**



In a measuring rule of the type comprising a casing having an entrance slot, a wind-up spring normally coiled within said casing and having its outer end extendable through the slot and a flexible coilable measuring blade of greater width than said spring for connection to the spring

and having indicia on one side thereof, a detachable connection between the spring and blade which is freely movable through said entrance slot and which will not interfere with the coiling of the spring and blade within the casing comprising an outer end portion of the blade which is necked down to substantially the same width as the spring and having a keyhole slot, a blunt arrow-shaped head at the end of the spring insertable through said keyhole slot from either side of the blade, and a narrow strip of bendable metal secured intermediate its ends to the necked down end of the blade transversely thereof having its ends bendable about the edges of the blade and spring when the head of the spring is inserted through the keyhole slot from the side opposite the indicia.

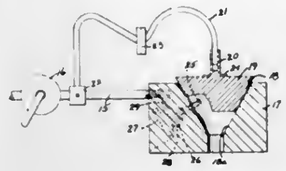
**2,646,941**
**SELF-THREADING, SELF-CLEANING TENSION DEVICE**
**Frank R. Borges, Jr., Fall River, Mass., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application September 14, 1950, Serial No. 184,793**
**15 Claims. (Cl. 242—147)**



3. A creel system comprising a hollow frame, a frame member for supporting a wound strand package with the end-surface thereof facing away from the member, a tension device supported in superimposed spaced relationship with the end corresponding to the end-surface of a package of the region occupied by the package while supported by the member, said device comprising an injector having a passage for strand terminating in an annular strand-discharging surface and having a chamber surrounding the passage for receiving fluid, said chamber merging with the passage for discharging the fluid into the passage in a direction away from the strand-receiving portion of the passage at an oblique angle with the longitudinal direction of the passage, and an element having an annular surface which rests against said strand-discharging surface, means for limiting the movement of the element away from the strand-discharging surface, a duct connecting the frame and the injector for communicating a fluid from a space within the frame to the chamber of the injector, and a valve in the duct for controlling the movement of fluid therethrough.

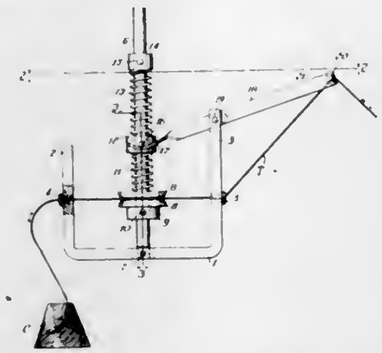
**2,646,942**
**STRAND TENSIONING DEVICE**
**Robert D. Heffelfinger, Lansdowne, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application July 5, 1952, Serial No. 297,299**
**8 Claims. (Cl. 242—149)**

1. A strand tensioning device comprising a body member with a frusto-conical cavity formed therein; a frusto-conical tensioning member rotatably positioned on the peripheral surface of the cavity; and a strand accommodating passage in the body member extending from the exterior



thereof to a point on the cavity, the passage being oriented angularly with the normal to its junction on the curvilinear surface of the cavity.

**2,646,943**
**TENSION CONTROL DEVICE**
**Luther Jackson Lindsay, Knoxville, Tenn., assignor of one-half to Hugh T. Overton, Knoxville, Tenn.**
**Application June 13, 1951, Serial No. 231,356**
**5 Claims. (Cl. 242—150)**



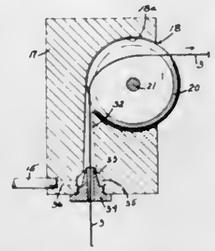
1. A tension control device for thread comprising a substantially U-shaped support having a pair of spaced arms, each arm of said support having a thread guide eye therein, a spindle mounted on the base of said support, a pair of opposed tension discs mounted on the spindle, means for limiting the movement of the discs in one direction, a spring bearing against the opposite side of the pair of discs in opposition to said limiting means, a collar slidably mounted on the spindle and bearing on the spring, pins projecting in opposite directions from the collar, a lever pivotally mounted on one of said arms and having a bifurcated end engaging the pins to vary the tension of the spring, and a thread guide eye connected with the lever in position to receive the thread after passing through the thread guide eyes and the tension discs to vary the tension applied to the thread.

**2,646,944**
**STRAND TENSIONING DEVICE**
**Robert D. Heffelfinger, Lansdowne, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application June 20, 1952, Serial No. 294,740**
**9 Claims. (Cl. 242—150)**

1. A strand tensioning device comprising a body member with a cavity formed therein; a portion of the cavity being curvilinear; a pair of opposed strand-engaging members rotatably mounted in the cavity; a channel in the body member which

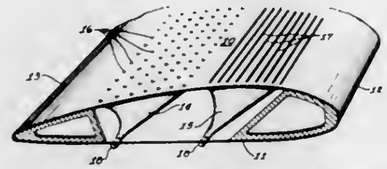


extends substantially tangentially from the curvilinear portion of the cavity and passes through



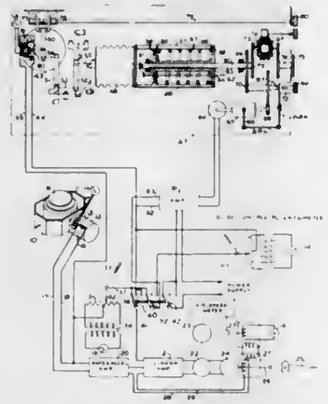
the body member; and means for directing a gaseous medium through the channel.

**2,646,945**
**AIRPLANE WING STRUCTURE**
**John A. Perry, Phoenix, Ariz.**
**Application September 5, 1950, Serial No. 183,381**
**8 Claims. (Cl. 244—40)**



1. In an airplane wing having a top surface and a bottom surface terminating in leading and trailing edges, funnel shaped tubes formed in said wing having upper large open ends located in said upper surface of said wing and small open ends projecting below the lower surface of said wing.

**2,646,946**
**AUTOPILOT**
**John C. Newton, Roslyn Heights, N. Y., assignor to The Sperry Corporation, a corporation of Delaware**
**Continuation of application Serial No. 631,077, November 27, 1945. This application October 10, 1950, Serial No. 189,437**
**20 Claims. (Cl. 244—77)**



20. In an aircraft control system, the combination with a pressure-responsive device comprising a bellows and a signal generating pick-off operated thereby, of a servo mechanism controlled by the signal voltage derived from said pick-off for actuating said pressure-responsive device in a manner to cause the signal output of said pick-off to reduce toward zero, and energy-storage means operatively connected with said bellows for limiting the degree of deformation that may be imposed on said device by said servo mechanism.

**2,646,947**
**AUTOMATIC STEERING APPARATUS**
**Robert J. Kutzler, Richfield, and Daniel G. Taylor, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application January 8, 1951, Serial No. 204,966**
**9 Claims. (Cl. 244—77)**

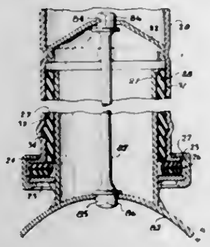


1. Control apparatus for a dirigible craft having a control surface, said apparatus comprising: servo means for operating said surface; an electric motor for controlling said servo means; means responsive to rate of turn of said craft for operating said motor; means responsive to change in heading for producing a first voltage, a rebalancing motor; means driven by said rebalancing motor for supplying a second voltage; a control means for said rebalancing motor responsive to a difference of said first and second voltages, and selective means for rendering said first and second voltages ineffective on said control means and additionally controlling said electric motor from said first or heading change responsive means voltage and said second or rebalancing motor voltage.

**2,646,948**
**AIRCRAFT UNDERCARRIAGE**
**Roy W. Brown, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**
**Original application February 18, 1947, Serial No. 731,590, now Patent No. 2,581,935. Divided and this application October 20, 1951, Serial No. 260,417**
**8 Claims. (Cl. 244—103)**

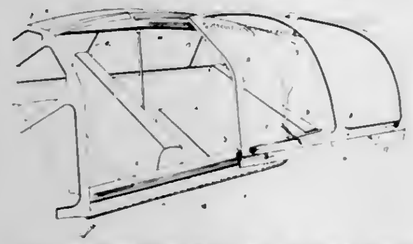
2. In an aircraft undercarriage, two relatively rotatable members positioned in concentrically spaced telescoped relation, one of said members being adapted to engage with an aircraft and the other of said members being adapted to carry an aircraft wheel, an elongate metallic connecting element, means securing one end portion of said connecting element to one of said telescoped

members, and means securing the second end portion of said connecting element to the other element, and an annular friction element interposed between said members, said element having a greater dynamic than static coefficient of friction, whereby relative rotational movement between said telescoped members is resiliently resisted by both said connecting element and said friction element.



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**2,646,949**
**TWO-PANEL SLIDABLE AND JETTISONABLE ROOF FOR THE COCKPITS OF AIRCRAFT**
**Raymond Saulnier, Paris, France**
**Application November 29, 1949, Serial No. 129,899**
**In France December 20, 1948**
**6 Claims. (Cl. 244—121)**

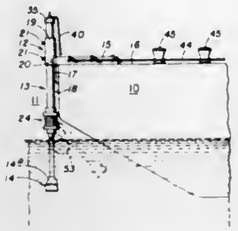


1. In combination with an aircraft having a space for pilot or passengers, two separate closing elements for said space disposed one on either side of the longitudinal axis thereof, normally slidable with respect to said space in a fore and aft direction and capable of being operated when in flight, a longitudinal element supporting said closing elements and extending over said space along the whole length thereof, in the vertical plane of said longitudinal axis, said closing elements being jettisonable instantaneously from said aircraft, and means operative from inside of said space to release said closing elements on said aircraft.

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**2,346,950**
**OUTBOARD TRANSDUCER ASSEMBLY**
**Donald Owen Nelson, Los Angeles, and Robert Parker Geddes, Jr., Sherman Oaks, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application March 13, 1950, Serial No. 149,312**
**3 Claims. (Cl. 248—1)**

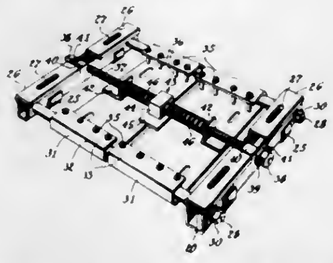
1. An underwater-transducer assembly for mounting on a watercraft having a deck positioned above the water line, said assembly comprising: an integral supporting bracket having a base portion adapted to be anchored to said deck and having a column-engaging portion adapted to extend in outboard relation to said deck; a vertical transducer-supporting column; an underwater-transducer secured to the lower end of said column; and means for vertically adjustably securing said column to said column-engaging portion of said supporting bracket, whereby



said transducer can be set a predetermined distance below the water line.

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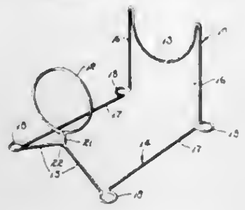
**2,646,951**
**SUPPORT FOR MOVABLY MOUNTING MECHANISMS SUCH AS MOTORS**
**Jerome J. Sloyan, New Rochelle, N. Y.**
**Application February 5, 1949, Serial No. 74,801**
**7 Claims. (Cl. 248—23)**



1. A support of the character described, comprising side rails and end cleats rigidly secured together a carriage movable lengthwise of the rails and toward and away from said cleats, a worm paralleling said rails and held against longitudinal displacement by said cleats, a follower on said worm movable thereon and moved by rotation of the worm, said follower having a lateral projection making movable contact with a part of the carriage thereby preventing rotation of the follower as the worm is rotated, and a compression spring between said follower and carriage, said spring being adjustable in compressive force exerted upon said carriage by rotation of said worm in said follower.

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**2,646,952**
**NURSERY BOTTLE HOLDER**
**James H. Chambers, Fresno, Calif.**
**Application August 20, 1951, Serial No. 242,601**
**2 Claims. (Cl. 248—107)**



2. A collapsible holder for nursery bottles comprising a single continuous length of ductile wire material return bent upon itself to form a substantially circular closed loop, the wire material having portions adjacent to the loop radially extended therefrom in overlapping relation defining a loop supporting throat, two portions of the wire material being angularly and divergently extended from the throat in the plane of the loop and providing a pair of front legs, an open loop formed at the extended end of each of the front legs in a common plane substantially normal to the plane of the closed loop, a pair of substantially parallel elongated base elements individually extended from the open loops in the plane thereof and in a direction parallel to the axis of the closed loop, an open loop formed at the extended end of each of the base elements, a rear leg extended substantially normal from each of the last mentioned open loops, and a U-shaped yoke interconnecting the extended ends of the rear legs, the rear legs and the yoke lying in a common plane substantially parallel to the plane of the closed loop.



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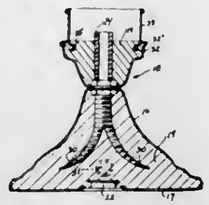
**2,646,953**
**HOLDER FOR ARTICLES OF JEWELRY AND THE LIKE**
**Armando R. Cinami, Hoxsie, R. I., assignor to The Mason Box Company, Attleboro Falls, Mass., a corporation of Massachusetts**
**Application June 15, 1951, Serial No. 231,777**
**5 Claims. (Cl. 248—116)**



1. A holder for displaying a watch band or other jewelry band comprising a frame of sheet material having two ends of predetermined width interconnected by a relatively narrow neck with shoulders on each of said ends at each side of the neck, the neck having transverse lines of bend about which the frame may be bent to form an upstanding support with a top between the lines of bend and a side between each line of bend and the adjacent ends, the top having flaps extending outwardly at each side of the neck and bent downwardly to form the ends of the upstanding support, whereby the watch band may extend around said support along said ends and sides with its lower edges resting on the shoulders of at least one of said ends.

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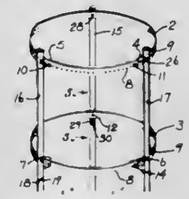
**2,646,954**
**HOLLOW WARE CONSTRUCTION**
**Sidney Shatkin, Long Branch, N. J., assignor to Aaron Shatkin, Long Branch, N. J.**
**Application August 25, 1950, Serial No. 181,405**
**1 Claim. (Cl. 248—127)**



In a hollow ware article of the character described, a shell having an open mouth, a cover member positioned across said mouth; said cover member having a hole therethrough; the perimeter of said hole being the inner edge of an annular seat depressed in the cover member in the direction into the shell, a self-hardening filler filling said shell and a separate member covering said hole and extending into the filler, anchored by said filler when said filler hardens and adapted when so anchored, to maintain the shell and cover member in assembled condition; said separate member comprising a shank having a lateral flange at one end and a lateral extension at its other end; said lateral extension being capable of being entered through said hole in the cover member and said flange being larger than said hole and adapted to set on said seat when the shank is pushed through said hole into the filler.

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**2,646,955**
**SUPPORT FOR GARBAGE CANS AND THE LIKE**
**Cecil R. Russell, Tulsa, Okla.**
**Application August 27, 1951, Serial No. 243,886**
**2 Claims. (Cl. 248—149)**



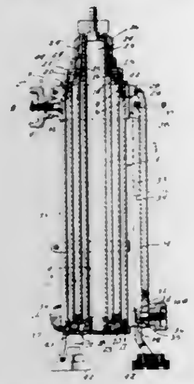
1. A support for cans of different diameters, said can support including upper and lower bands each formed of a continuous length of strap material and each having an opening midway of its ends and a series of openings extending inwardly from ends of the bands to points spaced from the midopening to provide one opening in each end approximately 120° from the midopening when the bands are extended about a can with the ends lapped sufficiently to closely accommodate the can therein, fastening devices interconnecting the overlapped ends, a leg having openings registering with the midopening in said bands, additional legs having openings registering with said openings in the bands that are approximately 120° from the midopenings, and fastening devices extending through the openings of the last named legs and said registering openings of the bands for securing the legs to the bands in substantially equally spaced relation with each other.

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**2,646,956**
**TRIPOD**
**Clarence J. Cadwell, Carpinteria, and Frank M. Adamson, Los Angeles, Calif., assignors to The Cadwell Corporation, Beverly Hills, Calif., a corporation of California**
**Application December 17, 1948, Serial No. 65,894**
**3 Claims. (Cl. 248—170)**

1. A tripod structure comprising a plurality of slidably, interengaged tubular sections, interconnecting internal and external screw threads at the inner and outer ends of the sections, the sections when fully telescoped one into the other being adapted upon relative rotation in one direction to be threadedly joined together by the screw threads at their corresponding ends and when fully withdrawn being adapted upon relative rotation in the opposite direction to be threadedly joined together by the screw threads at their dissimilar ends, a central tubular section freely slid-

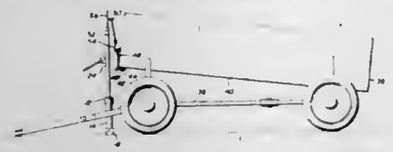
able in the innermost one of the plurality of sections, a clamping collar upon the outer end of the said innermost section and having the said central section slidable therethru, means carried upon the inner end of the central section for engaging said collar to limit the outward movement of the central section, means for effecting



gripping engagement of the clamping collar with the central section to maintain the latter in an adjusted position in the said innermost section, means for mounting a body upon the outer end of the central section, and means connected with the outermost one of the plurality of sections for supporting the tripod.

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**2,646,957**
**STAND AND HOLDER FOR JACKS**
**Carl H. Lovik, Forest City, Iowa**
**Application February 23, 1949, Serial No. 77,923**
**1 Claim. (Cl. 248—346)**

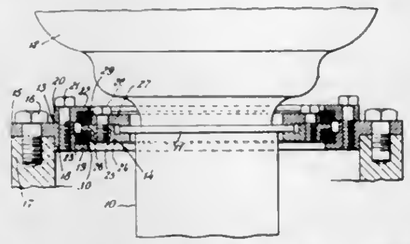


A jack stand of the character described comprising a base including an inverted horizontal channel bar, tubular supporting legs depending from between the flanges of the end portions of said bar, inverted channel members fixed longitudinally on the lower ends of said legs and constituting feet, a retaining ring for the reception of the lower end portion of a jack, fixed on the channel bar at an intermediate point, and resilient lateral supporting braces for the jack rising from said end portions of said channel bar, said braces terminating in spaced, inwardly and downwardly curved, apertured upper end portions for receiving the jack therebetween and securable thereto.

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**2,646,958**
**SHOCKPROOF MOUNTING**
**William E. Coykendall, Jr., Riverside, Conn., assignor to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut**
**Application May 6, 1949, Serial No. 91,671**
**3 Claims. (Cl. 248—358)**

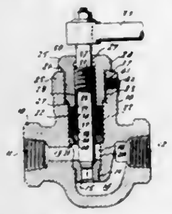
1. A shockproof mounting for securing an article to a support having an opening into which the article is to extend, which mounting comprises a pair of annular members of a size to encircle the article, one member being adapted to be secured to the article and the other being adapted to be secured to the support around the opening therein, one of the members having a circumferential channel in one of its axial faces, the side walls of which channel are arranged at right angles to the channel bottom, and the other member having a radial flange received in said channel, the parallel surfaces of which flange oppose the respective channel side walls, and axial cylindrical shoulders on both sides of the



flange at right angles to the parallel surfaces of the flange, which shoulders are concentric with the channel bottom, thereby effectively providing four pairs of opposed surfaces which bound two annular spaces of approximately square radial cross-section, a pair of toroidal rings of resilient material and of solid substantially undeformed circular cross-section within the respective annular spaces and in peripheral contact with the four surfaces bounding their respective spaces so that the toroidal rings are deformable between opposed pairs of surfaces.

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**2,646,959**
**VALVE FOR CONTROLLING HIGH PRESSURE FLUIDS**
**Fred S. Carver, Short Hills, N. J., assignor to Fred S. Carver, Inc., Summit, N. J., a corporation of New York**
**Application July 8, 1946, Serial No. 681,990**
**5 Claims. (Cl. 251—50)**



1. In a valve, a body adapted to be subjected to internal fluid pressures of the order of 6,000 lbs. per square inch, a cylindrical threaded valve stem extending outwardly from the interior of the body, the body having a cylindrical bore concentric with the valve stem and provided with an outwardly facing shoulder, a removable gland through which the valve stem extends, the valve stem having a reduced diameter which provides an annular space between the gland and valve stem, the gland being fixedly carried by the body in predetermined position and forming, together with the valve stem, the wall of the bore and the shoulder an inwardly opening annular cylindrical chamber of fixed predetermined dimensions, packing completely filling the end of said chamber adjacent the gland and including a rigid washer bridging said space, a



soft, compressible packing material, a rigid follower slidably fitting the bore and valve stem and engaging the entire inner face of the packing to completely confine the packing between the gland, the wall of the bore, the valve stem and the follower, and a spring between the shoulder and follower, the spring, the follower, rigid washer and the packing, when the spring is free of compression, occupying a space greater than the over all length of the said chamber, the spring being partially compressed when the spring, the follower and the packing are forced to occupy said chamber, so that it then provides the sole source of axial pressure on the packing and forces the packing laterally against the valve stem and cylinder walls to seal the chamber and prevent low pressure leakage, and whereby when subjected to hydraulic pressure in the valve the packing is under the sum of said pressures and tightly seals the chamber against high pressure.

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**2,646,960**
**ROTARY PLUG WITH SEALING SLEEVE**
**George R. Ericson, Kirkwood, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application January 12, 1949, Serial No. 70,423**
**3 Claims. (Cl. 251—102)**



1. In a valve the combination of a valve body having a passageway therethrough for the flow of matter, a bore formed in the body and having its axis angularly disposed relative to the axis of said passageway and its walls finished to provide a seating surface having a predetermined diameter, means at least partially closing the ends of said bore, a plug member rotatably mounted with respect to said means and bore and having side walls spaced a substantial distance from said bore seating surface, a sleeve member of substantially uniform wall thickness mounted in said space and having an external diameter substantially equal to the diameter of the bore seating surface and an internal diameter slightly greater than the diameter of the plug member portion located in the bore, said sleeve member having a slot cut therethrough whereby the same may flex, enlarged openings formed in said sleeve on either side of said slot, and outwardly converging pins projecting from said plug member and freely movable within said enlarged openings, said pins having a cross-sectional area substantially less than the cross-sectional area of said enlarged openings.

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**2,646,961**
**RESILIENT GASCOCK STOP**
**Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts**
**Application May 22, 1946, Serial No. 671,565**
**1 Claim. (Cl. 251—163)**

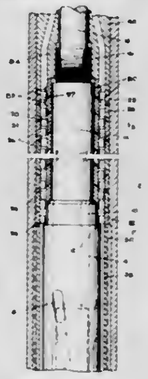
A gascock comprising a body, a valve member rotatable in the body and having an operating stem rigid therewith, a valve cap removably secured to the body and apertured for the passage of the valve stem, said body having a gas inlet port and said valve member having a control port movable into and out of registry with said inlet port, means on the body and valve member for limiting rotation of the valve member including a stop member carried by and movable with the valve member and including an open position stop and a closed position stop for coaction with said stop member and respectively defining fully open and fully closed positions of said valve member upon engagement by said stop member, a resilient sheet metal member disposed in a plane transversely of the axis of said valve member and fastened to the valve body and providing a yieldable spring finger extending circumferentially with respect to said valve member substantially across the space between said stops, said finger having an inclined tip portion adjacent said closed position stop and sloping gradually from the plane of said resilient sheet metal



member into the path of movement of said stop member and having a second portion intermediate its ends also sloping gradually into the path of movement of said stop member, said finger further having a third portion located between said second portion and said tip portion extending abruptly into the path of movement of said stop member and providing a stop shoulder engageable by said stop member for yieldably holding the valve member in an intermediate position, said gradually sloping tip portion and said gradually sloping second portion providing yieldable cam faces engageable by said stop member for retarding movement of said valve member from closed position toward open position and from open position toward closed position upon approaching said intermediate position.

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**2,646,962**
**FLUID MOTOR FOR DRIVING ROTARY TOOLS**
**George P. Wagner, Mount Vernon, N. Y., assignor to The Engineering Development Company, Incorporated, Dallas, Tex., a company of Texas**
**Application February 19, 1947, Serial No. 729,613**
**25 Claims. (Cl. 253—2)**

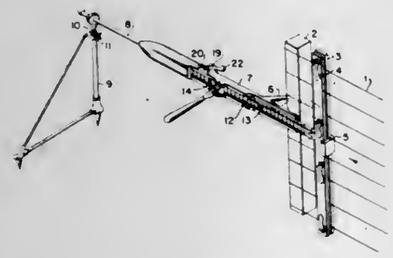


1. In an oil well drilling turbine, a rotor structure including a shaft adapted to have a bit attached thereto, a plurality of sets of rotor blades projecting from said shaft at spaced intervals therealong, and means securing said blades against rotation on said shaft, a plurality of stator rings each having a set of inwardly directed stator blades thereon in the intervals between

the sets of rotor blades, a sleeve section on the outside of said shaft, said shaft being turnable with respect to said sleeve section, connecting means between said stator rings and between one of said stator rings and said sleeve section engageable by movement longitudinally of the shaft for preventing all movement between the two connected parts transversely and circumferentially of the shaft, a casing having an internal diameter equal to the external diameter of the stator rings, and means securing said sleeve section against rotation within said casing.

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**2,646,963**
**WIRE FENCE STRETCHER**
**Ulysses G. Usher, Springfield, Ill.**
**Application January 12, 1949, Serial No. 70,535**
**1 Claim. (Cl. 254—83)**

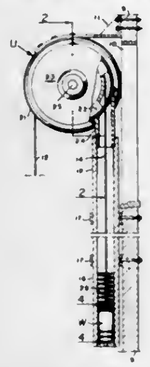


A fence stretcher for wire fences, comprising a horizontal rack with its free end shaped to define a hook, a horizontal frame member shaped to define at one end a sleeve for said rack, having at its central portion shaped to define a sliding guide and housing for said rack and at its free end shaped to define a notched fulcrum terminal for engaging a fence post during a wire stretching operation a horizontally and vertically adjustable anchoring post, a supporting bar integral with said horizontal sleeve and an upright collar provided on said anchoring post slidably engaging said bar of said sleeve, a pivoted ratchet lever anchored to the face of said sliding guide for said ratchet bar and a pawl pivotally secured thereto and operable for a step by step pull against said hook of said rack, an automatic retaining pawl pivoted to the top of said frame member adjacent the sleeve portion thereof and operable to hold said rack in the respective positions of stretching adjustment to which the rack has been moved by said lever in the operations of stretching a fence, means operable with said stretcher assembly for detachably clamping wires of a fence to be stretcned, said anchoring post provided with a base leg having a means for its swinging adjustment about its vertical center, means for securing said support base in selected pivoted positions about said upright collar.

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**2,646,964**
**ESCAPE UNIT**
**Albert Andrews, Grand Junction, Colo.**
**Application September 10, 1951, Serial No. 245,885**
**7 Claims. (Cl. 254—160)**

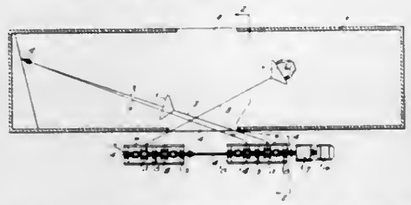
1. In an escape unit, a reel adapted to be installed in an elevated position; a descent cable adapted to be wound on said reel; a rewinding cable having a weight attached to its lower end, said weight having holes extending longitudinally therethrough; a pulley on which said rewinding cable may be wound, said pulley being attached to said reel; a pipe adapted to be installed in a generally vertical position, for receiving said rewinding cable and weight and



to be filled with hydraulic fluid; and a valve device for closing said holes upon upward movement of said weight.

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**2,646,965**
**DEVICE FOR HANDLING GRANULAR MATERIAL**
**Mentor C. Addicks, Minneapolis, Minn.**
**Application February 2, 1951, Serial No. 209,175**
**10 Claims. (Cl. 254—173)**



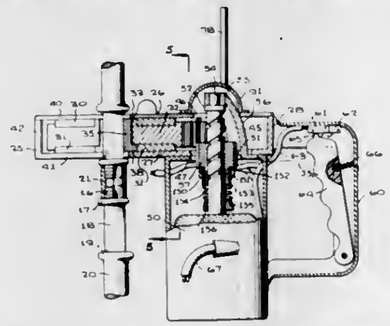
1. In a device of the class described, a supporting structure, a cable winding drum journalled for rotation on the supporting structure, a drive shaft, power transmission mechanism connecting said drive shaft to said winding drum, said power transmission mechanism including a low torque transfer coupling unit comprising relatively rotary driving and driven elements the former of which is connected to the drive shaft and the latter of which is connected to the drum, a releasable high torque transfer coupling unit connecting the drive shaft to the drum, an actuator for the high torque transfer coupling unit operative to set and release the same, and control means for said actuator responsive to low torque transfer coupling unit imparted rotary movement of said drum in a cable winding direction to render said actuator operative to set the high torque transfer coupling unit, said control means including mechanism responsive to predetermined rotation of said drum in a cable winding direction to release said high torque transfer coupling unit.

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**2,646,966**
**POWER-OPERATED WRENCH**
**Glenn A. Lindberg, Cut Bank, Mont.**
**Application December 11, 1951, Serial No. 260,991**
**5 Claims. (Cl. 255—35)**

3. A power operated wrench comprising a housing, a main gear rotatably mounted in said housing and having a radially disposed notch extending from the periphery to the center thereof for receiving an object to be turned by said wrench, said housing having an opening therein registering with the notch in said gear when said gear is in a predetermined rotational position relative to said housing, a motor mounted on said housing, means in said housing connecting said motor to said main gear and effective to deliver rotational impacts to said main gear upon opera-

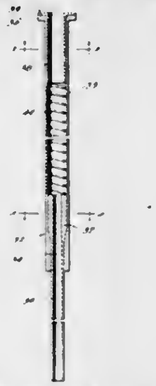




tion of said motor, a post mounted on said housing and extending to respectively opposite sides of the latter, and a back-up wrench detachably mounted on said post and engageable with an object at a location spaced from said first gear to hold the object engaged thereby stationary while the object engaged by said first gear is rotated relative to the object engaged by said back-up wrench, said back-up wrench being selectively mountable on said post adjacent either end of the latter.

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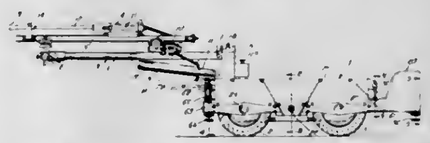
**2,646,967**
**WATER TUBE FOR FLUID OPERATED ROCK DRILLS**
**Celeste F. Buccanero, Wakefield, Mich.**
**Application April 19, 1951, Serial No. 221,842**
**1 Claim. (Cl. 255—49)**



The improved water tube for a fluid operated rock drill, comprising an elongate tubular body of internally reduced diameter at its forward end, an out-turned annular flange at the rearward end of the body, an elongate tubular extension having a portion of its rearward end of enlarged external diameter to fit snugly within the body against the rearward face of the internally reduced portion of the body, the main portion of the tubular extension extending from the said forward end of the body, a coil spring housed within the body and engaged at one end against the enlarged rearward end portion of the tubular extension, a spring retainer in the form of a tubular thimble slidably engaged in the said rearward end of the tubular body, and an out-turned annular flange at the outer end of the thimble seated on the outer face of the first flange.

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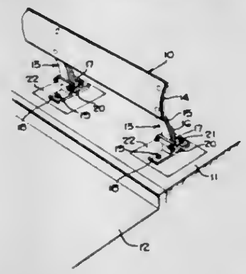
**2,646,968**
**MOBILE DRILLING APPARATUS**
**John C. Curtis, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Application December 13, 1947, Serial No. 791,529**
**21 Claims. (Cl. 255—51)**



1. In a drilling apparatus, a mobile base having pairs of traction wheels at its sides for supporting, propelling and steering said base, drill supporting means carried at the forward end of said base above the front wheels near the center of gravity of the apparatus, a drilling tool carried by said supporting means, means for driving said side wheels including a motor for each pair of wheels at each side of said base, said drilling tool and said supporting means substantially counterbalancing the weight of the apparatus rearwardly of said supporting means with the weight so distributed that the front traction wheels receive a major portion of the weight, and means for independently controlling said motors to vary their relative speeds to effect propulsion and steering of the apparatus by said pairs of wheels, the rear traction wheels which receive only a small portion of the weight of the apparatus skidding sidewise as they are driven during the steering operation, to swing the apparatus horizontally about the points of contact of the front traction wheels with the ground surface.

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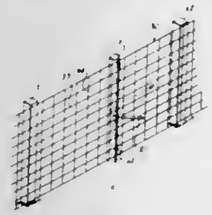
**2,646,969**
**HIGHWAY GUARD**
**Niels E. Hendrickson, Laguna Beach, Calif., assignor to United States Spring & Bumper Co., Inc., Los Angeles, Calif., a corporation of California**
**Application January 7, 1950, Serial No. 137,457**
**12 Claims. (Cl. 256—13.1)**



1. A support member for a road guard, said support member including a leaf spring member inclined at an angle from the vertical, said leaf spring member including a plurality of leaves,

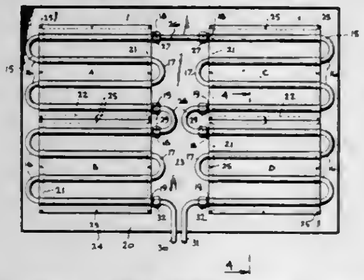
the lower portions of said leaves being formed into overlapping horizontal base members, one of the overlapping base members being formed with an inclined bracing strut, and means associated with said base members for anchoring said base members adjacent a roadway.

2,646,970
**FENCE WIRE STRETCHER**
**Fred Chaussee, Rapid City, S. Dak.**
**Application November 3, 1950, Serial No. 193,908**
**2 Claims. (Cl. 256—41)**



1. In a stretcher for a fence having horizontal and vertical wires, a tubular bar adapted to be vertically positioned against one side of the fence against the horizontal wires thereof and alongside of a vertical wire thereof, bolts extending through and crosswise of said tubular bar at spaced intervals along said bar, said bolts terminating at one end in eyes projecting laterally from the bar, said eyes being aligned with each other lengthwise of the bar and being arranged to project between wires to the side of the fence opposite from the bar, a rod freely inserted through the eyes for engaging sides of horizontal wires of the fence remote from the bar, said bar being provided with a hole in at least one side thereof, and a lever rod removably inserted in the hole and projecting laterally from the bar for rotating the bar to wind the horizontal fence wires on the bar.

2,646,971
**HEAT EXCHANGE UNIT**
**Walter Raskin, Brooklyn, N. Y.**
**Application June 17, 1950, Serial No. 168,831**
**2 Claims. (Cl. 257—256)**



1. A heat exchange assembly unit comprising an assembly plate having a plurality of spaced and independent apertures, a plurality of tube-supporting plates secured to the assembly plate and individually covering the apertures therein, each of the tube-supporting plates having a plurality of spaced, parallel deep grooves having their open sides facing the respective aperture covered by said tube-supporting plate, a heating and cooling tube having a plurality of straight tube sections located in the grooves in each tube-supporting plate, curved integral connections located beyond the ends of the tube-supporting plates and connecting the tube sections, connections between the tubes of the several tube-supporting plates, said connections being also located beyond the ends of said plates, connections to the extreme ends of said tubes for supplying heating or cooling fluid to the tubes of the various tube-supporting plates, the curved end connections and all other connections being located beyond the apertures and overlying a face of the assembly plate, and a protective flange on the assembly plate extending beyond the tubes and the grooves in which said tubes are positioned.

2,646,972
**FIN TYPE RADIATOR**
**Edward C. Schmid, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware**
**Application February 4, 1950, Serial No. 142,503**
**2 Claims. (Cl. 257—262.13)**



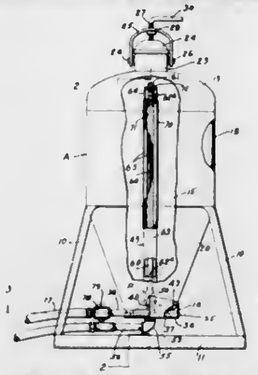
1. A fin type radiator comprising a pair of elongated sheets of conductive material adapted to mate with each other, each sheet having a set of similar tabs formed in a longitudinal end portion thereof, the tabs of each said set being spaced from each other a distance substantially equal to the width of a tab at its base, each said sheet forming a wall portion of an elongated hollow member, said sheets being joined together to form an elongated hollow member having fins extending therefrom, the tabs on one sheet being positioned alternately with the tabs on the other sheet so that each tab is longitudinally positioned between an adjacent pair of tabs in the opposite sheet, said tabs being twisted, and the extended end of each tab being aligned with the end of one of the adjacent tabs on the other sheet to form portions of spiral fins.

2,646,973
**APPARATUS FOR INTRODUCING SOLUBLE AGENTS INTO LIQUIDS**
**Eugene L. Prizer, Escondido, Calif., assignor of twenty-five per cent to J. A. Prizer, Fullerton, twenty-five per cent to Murray Ferguson, Compton, ten per cent to Edgar D. Boal, Bonita, and ten per cent to Marston Burnham, La Jolla, Calif.; Beatrice C. Prizer, executrix of said Eugene L. Prizer, deceased**
**Application June 30, 1952, Serial No. 296,454**
**19 Claims. (Cl. 259—4)**

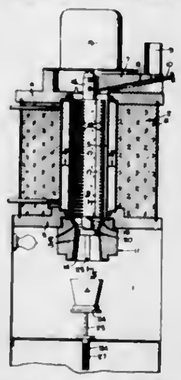
1. A mixing apparatus for solid materials such as fertilizers, treating agents and the like to introduce said materials into a liquid, said mixing apparatus having: a supply compartment to hold a supply of said material, said compartment being open at the bottom for gravitational movement of solid material downward therefrom; walls defining a lower compartment of vortical shape below said supply compartment and open thereto to receive solid material therefrom; a fluid inlet positioned to introduce fluid substantially tangentially into said lower compartment to form a stream rotating around the lower compartment for circulation upward into said supply compartment; and means to release fluid laden with said material from the supply compartment; said supply compartment having a peripheral wall extending downward into said lower compartment,



the lower edge of said peripheral wall descending into said lower compartment progressively in the direction of rotation of said stream to progressively intercept the stream thereby to divert the liquid upward from the lower compartment into the supply compartment.



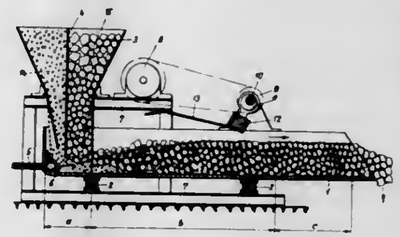
2,646,974
**APPARATUS FOR MAKING REFRIGERATED COMESTIBLES**
**George E. Read, Santa Monica, Calif.**
**Application September 11, 1950, Serial No. 184,144**
**9 Claims. (Cl. 259—8)**



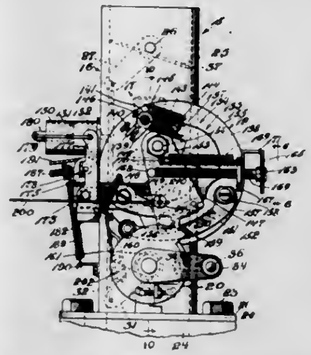
1. An apparatus for manufacturing a frozen comestible, involving: a vertically disposed freezing cylinder; a discharge collar at the lower end thereof; a motor mounted above said freezing cylinder; a drive shaft depending from said motor through said cylinder; a hollow journal ring connected to said drive shaft to rotate therewith and bearing against the walls of said discharge collar for restraining the extended lower end of said shaft against vibration, said journal ring being exposed to and lubricated by material passing through said discharge collar; combined scraper and impeller blades carried by said shaft, and means for introducing a liquid into the upper end of said cylinder for engagement by said blades.

2,646,975
**METHOD FOR MIXING CONCRETE BY GRAVITATIONAL VIBRATION**
**Hans Waldvogel, Zurich, Switzerland**
**Application April 10, 1951, Serial No. 220,224**
**3 Claims. (Cl. 259—149)**

2. A method for making concrete comprising bringing the various constituents of the concrete onto a vibrating carrier so as to form a composition in which the components of lower overall weight are located at the bottom and those of higher overall weight are located at the top of the former, mixing, conveying and compacting of the components taking place simultaneously by the vibrating of said carrier.



2,646,976
**FUEL INJECTING DEVICE FOR INTERNAL-COMBUSTION ENGINES**
**Theodore N. Saaty, Providence, R. I.**
**Application February 23, 1949, Serial No. 77,857**
**14 Claims. (Cl. 261—37)**

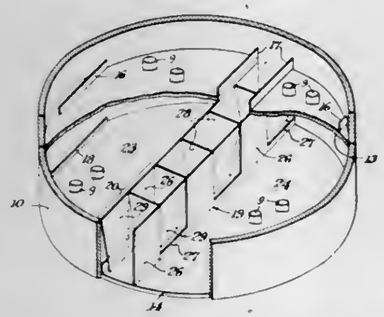


1. In combination with an internal combustion engine having a fuel pump, a fuel atomizer for said engine comprising an air flow conduit adapted to be attached to the intake manifold of the engine, a throttle valve in said conduit for controlling the admission of air in said conduit, a fuel nozzle in said conduit for ejecting fuel under positive pressure in the air flowing through said conduit, a fuel reservoir connected to said nozzle, said pump delivering and maintaining fuel under pressure in said reservoir, means in said reservoir for dampening pulsation of the fuel in said reservoir, and an auxiliary pump manually operable for supplying fuel to said reservoir.

2,646,977
**VAPOR LIQUID CONTACT APPARATUS**
**Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware**
**Application March 21, 1951, Serial No. 216,782**
**14 Claims. (Cl. 261—114)**

1. In combination with a distillation tower wherein liquid on alternate decks flows inwardly toward a central downcomer on an upper deck

and outwardly away from said downcomer and away from the center of the next lower deck, a downcomer which comprises central weir means on an upper deck to maintain an independent liquid level on each side of the center thereof, a downcomer passageway between said weir means and extending from said upper deck to the next lower deck, first dividing means in said downcomer passageway and extending there-



across for dividing same into a plurality of portions whereby liquid from each side of said upper deck is divided into a plurality of streams, second dividing means between said first dividing means for dividing said portions into first and second conduits, means for directing the flow of liquid from said first conduits to one side of said lower deck, and means for directing the flow of liquid from said second conduits to the opposite side of said lower deck.

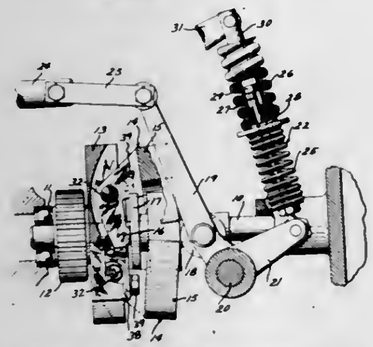
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2,646,978

**CENTRIFUGAL GOVERNOR HAVING WEIGHTS SUCCESSIVELY SUPPORTED BY SPACED PIVOTS**

**Randolph C. Barnes, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California**

**Application October 6, 1952, Serial No. 313,323**
**3 Claims. (Cl. 264—4)**



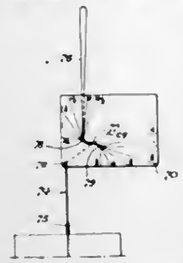
2. A flyweight for a centrifugal type engine governor having a supporting shaft permitting it to rock under influence of centrifugal force, said shaft being formed with spaced bearing edges, and a carrier for the flyweight providing spaced notches to receive said edges selectively as engine speed changes whereby the fulcrum point of flyweight action will change between low speed operation and high speed operation.

2,646,979

**WEIGHING SCALE**

**Jean Weber, South Orange, N. J.**

**Application March 7, 1950, Serial No. 148,049**
**12 Claims. (Cl. 265—61)**



1. A weighing scale comprising a flat sheet beam member, means attached near one edge to hold a small light object whose weight is to be measured, two fulcrum points in said beam member connected by a slot, said fulcrum points being at opposite ends of said slot at different distances from the point of attachment of said holding means, one of said points being for weighing one range of weights and the other for weighing a different range of weights, supporting means for suspending said beam member for pivoting movement about either one of said fulcrum points, said supporting means being movable along said slot from one fulcrum point to the other without removal from the beam member, and scale graduations radiating from said different fulcrum points whereby different ranges of weights may be measured when said beam member is supported from one or the other of said fulcrum points by said suspending means, said supporting means having a rectilinear portion overlying one set of scale graduations or the other depending on the fulcrum point in which the supporting means is located at the moment, said supporting means thus indicating on said scale graduations the weight of the article being weighed.

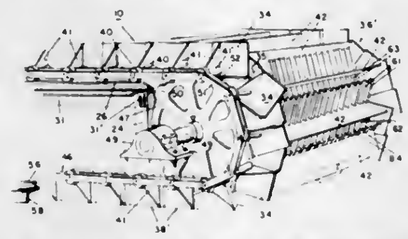
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2,646,980

**SINTERING APPARATUS**

**Robert F. Leftwich, Greenwich, Conn.**

**Application October 11, 1948, Serial No. 53,807**
**7 Claims. (Cl. 266—21)**



1. In sintering apparatus, an endless conveyor comprising a pair of opposed chains, pairs of sprocket wheels engaging said chains, shafts connecting the chains and each carrying a pair of wheels, a plurality of sintering pans formed by units each pivotally mounted on one of said shafts, a pair of rigid rails arranged in spaced relation and supporting the last mentioned wheels, each pan including a transverse partition wall and sets of oppositely extending fingers, the fingers of each set meshing with the fingers



of the other set of an adjacent unit, each unit having end walls including inner and outer portions, the inner portions of the end walls overlapping the outer portions of the end walls of adjacent units, and the inner portions of the end walls having notches therein for receiving one of said shafts.

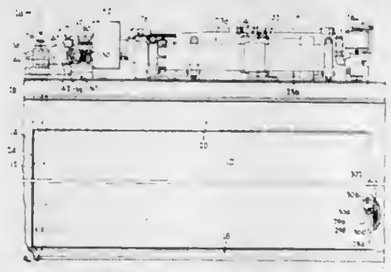
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2,646,981

**AUTOMATIC DOOR OPERATOR HAVING AUTOMATIC MEANS FOR MANUAL OPERATION**

**Cyrus W. Bassett, Monmouth County, John H. Vander Veer, Union County, and Albert E. Welgele, Essex County, N. J., assignors, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware**

**Application December 17, 1947, Serial No. 792,258**
**4 Claims. (Cl. 268—66)**



1. In combination, a door, means for resisting and yet permitting the opening of the door but normally tending to move the door to closed position, means for moving the door to open position independently of any resistance on the part of said resisting means, a source of energy for the door opening means, means for controlling the energy from the source to the door opening means, and means for applying energy from said source to said resisting means to make the resisting means ineffective so long as the source of energy remains effective.

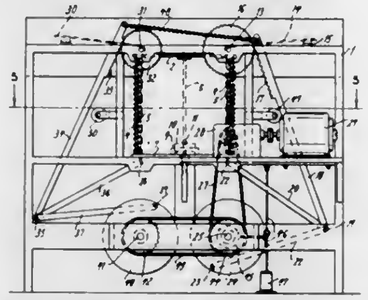
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2,646,982

**APPARATUS FOR FOLDING CLOTH FLATWORK**

**Joy Hendrix, Kirkwood, Mo.**

**Application April 28, 1950, Serial No. 158,665**
**5 Claims. (Cl. 270—61)**



1. A cloth folding machine of the character described comprising: a center supporting panel, side panels hinged along opposite sides of said center panel for folding thereover, mechanism connected to said side panels operating to fold and unfold said side panels successively, means guiding said center panel for vertical movement, yielding supporting means for said center panel permitting the same to be depressed by pressure of a side panel on a folded cloth thereon, and a releasable detent adapted to hold said center panel in depressed positions.

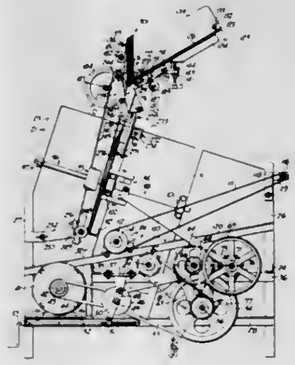
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2,646,983

**FEEDER FOR CARTON BLANKS**

**Edward J. Pagendarm, San Mateo, Calif., assignor to Bemiss-Jason Company, a corporation of California**

**Application January 28, 1947, Serial No. 724,762**
**5 Claims. (Cl. 271—36)**



1. A mechanism for feeding blanks of sheet material singly and in predetermined timed relationship, the mechanism comprising a magazine having an inclined blank supporting member having a surface for supporting blanks on edge on said surface; a feed roller having a friction surface, said feed roller being mounted at the lower end of said magazine, its friction surface being spaced less than double the blank thickness from the edge of said supporting surface to provide a feed gap therebetween permitting only single blanks to pass between said supporting member and roller; a stop member underneath said feed gap opposite said feed roller and movable towards, and away from, said roller into and out of the path of the blanks; said stop member being separate and apart from said roller; and drive means for intermittently driving said roller and for moving said stop member into and out of said path in predetermined timed relationship with respect to the rotation of said roller.

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2,646,984

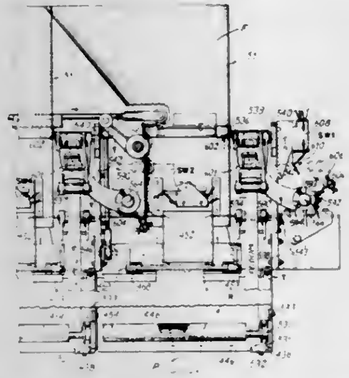
**PINFALL SIGNALING MECHANISM**

**Morehead Patterson, New York, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey**

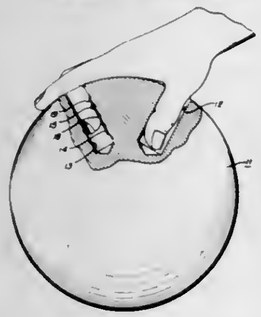
**Application November 12, 1948, Serial No. 59,739**
**6 Claims. (Cl. 273—42)**

2. In a bowling pin spotting machine for use with a bowling alley, a device adapted to be moved to and from said alley for placing pins in playing arrangement thereon, sets of opposed pin holding grippers mounted on said device, individual operating means for said sets of grippers, individual switches for connection in a signal circuit, and means for operating corresponding

switches in response to closing movement of any of said gripper operating means beyond the position necessary for bringing the grippers of a set of grippers into engagement with a standing pin.

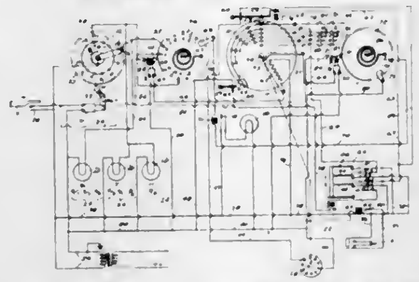


2,646,985
**FINGER GRIP INSERT FOR BOWLING BALLS**
Steve J. Nagy and John F. Klares, Cleveland, Ohio
Application September 28, 1950, Serial No. 187,244
1 Claim. (Cl. 273—63)



A device for providing a finger-engaging surface in a finger opening of substantially cylindrical form in a bowling ball, said device comprising a relatively thin slab of resiliently compressible material and being flexible to conform to the cylindrical wall on a side of said opening upon being inserted therein, said slab being adapted to extend partially around the circumferential extent of said wall and to be secured to the said wall, lift means under which a terminal finger phalange may engage for providing lift to the ball, said lift means comprising a relatively coarse rib integral with said slab and protruding outwardly from a side thereof and extending transversely of said slab near an end thereof, said rib having an edge extending transversely of said slab in a gradual slope from the side of said slab at the ends of the rib, said rib being also flexible to conform to the said wall, said rib edge being adapted to be disposed inwardly of the cylindrical wall on a side of said opening and across said opening in an arc having a radius greater than the radius of said cylindrical opening to provide an arcuate ledge on a side of said opening under which said terminal finger phalange may engage, friction means for providing frictional engagement for the pad of said terminal finger phalange, and centering means for providing a guide by feel for enabling said finger pad to be positioned at a predetermined location relative to said lift means, said friction and centering means comprising a plurality of relatively fine ridge portions of said resiliently compressible material and integral with said slab and protruding outwardly from said side thereof, said fine ridge portions being arranged substantially concentrically around a center located at a distance from, and substantially equidistant from the ends of, said coarse rib to accommodate a said finger pad below said coarse rib, said coarse rib protruding outwardly from said slab a substantially greater distance than the distance said fine ridge portions protrude outwardly from said slab, said slab having a length substantially less than the depth of said cylindrical opening and adapted upon being inserted in said opening to have its upper edge positioned below the edge of said opening a distance accommodating the inserted finger of the user.

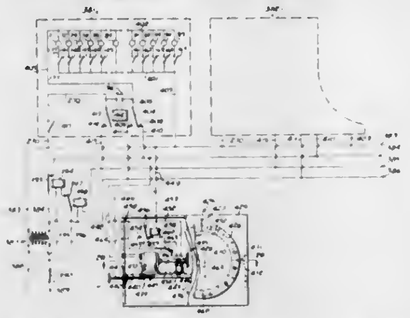
2,646,986
**MARBLE BOARD DICE GAME**
Everett K. Mentzer, New Springfield, Ohio
Application August 26, 1949, Serial No. 112,489
4 Claims. (Cl. 273—121)



1. In a game board for playing a dice game, said game board including an inclined playing surface having a plurality of openings therein and means for rolling a pair of marbles one at a time over said playing surface, electrical score objective indicators on said board, an adding ratchet disc in said game board having a plurality of contacts thereon, impulse operated structure for moving said adding ratchet disc, a master selector mechanism in said game board operating to establish circuits from a power source through one of said score objective indicators and to one of the contacts on the adding ratchet disc, a switch in each of said openings, a plurality of relays in said game board and energizing circuits therefor, each of which is controlled by one of the said switches, an adding ratchet impulse unit in said game board having a plurality of groups of contacts thereon, each group of contacts comprising a different number of contacts, and a plurality of circuits individually connecting each of the said relays with a power source and one of the said groups of contacts on the said adding ratchet impulse unit, each of said groups of contacts being thereby connected in circuit with said power source in response to operation of the corresponding one of said relays, and means energized through said relays for rotating the said adding ratchet impulse unit and means for establishing contact successively with said contacts of said groups on said adding ratchet impulse unit when rotating for energizing said impulse operated structure to move the said adding ratchet disc whereby the total number of movements thereof corresponds with the number of contacts in one group on said adding ratchet impulse unit energized by one switch and relay and whereby the said total number of movements of the said adding ratchet disc will correspond with the total number of contacts in the two groups of contacts on the said adding ratchet impulse unit energized by the said pair of marbles engaging two of the said switches, an electrically operated game indicating device and a secondary stationary contact member positioned for successive engagement with the said contacts on the said adding ratchet disc, said device being connected in circuit with said secondary contact and the first-mentioned power source, whereby said game indicating device is energized when an energized contact on the said adding ratchet disc is engaged by the said secondary stationary contact member.



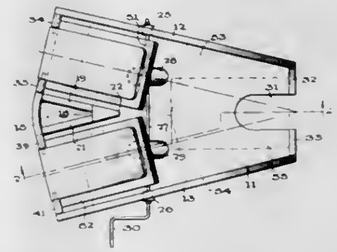
2,646,987
**SCORING SYSTEM FOR BALL GAMES**
George A. Hathereli, Roscoe, Calif.
Application December 23, 1946, Serial No. 717,910
3 Claims. (Cl. 273—121)



2. In a game apparatus adapted to be played by a plurality of players using objects with which winning combinations of scoring plays may be made, the combination of: a plurality of individual games each adapted to be played by one of the players using at least one of the objects, and each including a normally open winner circuit and win-tracing means for closing said winner circuit when a winning combination of scoring plays has been made with the object; primary and secondary circuits interconnecting all of said individual games and adapted to supply power thereto; relay means in each of said winner circuits and energizable upon closure thereof for transferring the corresponding individual game from said primary circuit to said secondary circuit; a movable indicator common to all of said games; means connected to said primary circuit for driving said indicating member; and relay means in each of said winner circuits and energizable upon closure thereof for opening said primary circuit.

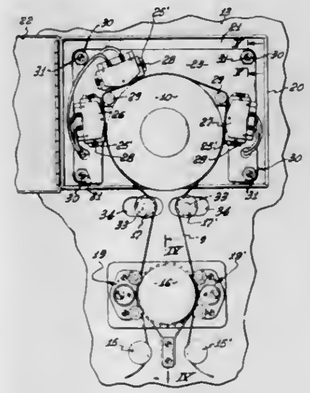
2,646,988
**CARD SHUFFLER**
Charles G. Phelps, Bremerton, Wash.
Application July 5, 1950, Serial No. 172,083
5 Claims. (Cl. 273—149)

1. A card shuffler comprising a horizontal base plate, a rear wall extending upwardly at the rear of said plate, side walls extending upwardly from said plate, a vertical partition between said side walls extending forwardly from the rear of said plate, a horizontal shaft journaled in said side walls above said base plate and forwardly of said partition, a pair of friction wheels on said shaft, one wheel on each side of said partition, a pressure tab between one side wall and said partition overlying one wheel, a pressure tab between the other side wall and said partition overlying the other wheel, and pivotal mountings on said rear



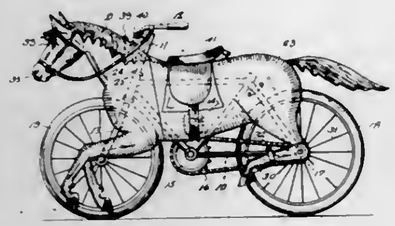
wall for the rear ends of both tabs disposed below the axis of said shaft so cards beneath said tabs have their edges resting upon said base plate at the juncture of said rear wall and their bottom surfaces inclined forwardly and upwardly relative to said base plate and resting upon the respective wheels.

2,646,989
**SOUND RECORDING AND REPRODUCING APPARATUS**
Arthur C. Davis, Burbank, Calif.
Application September 12, 1949, Serial No. 115,297
4 Claims. (Cl. 274—4)



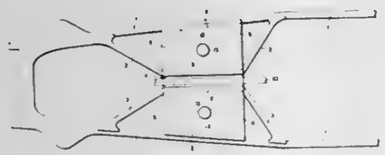
1. In a sound recording and reproducing apparatus: a freely-journaled, smooth-surfaced, weighted recording and reproducing drum, arranged to frictionally receive strip film over the major portion of its periphery; a shielded pickup case surrounding said drum, and including a head mounting plate in a plane transverse to the axis of the drum; means for adjustably positioning said mounting plate in a selected plane transverse to the drum axis; a magnetic head carried by the plate with its face out of operative range of film on said drum; an idler roller journaled in proximity to said drum and head, said roller being positioned to divert film from and return the film to said head whereby the film so diverted by the roller passes in operative relation to the head.

2,646,990
**FIGURE FORMED CYCLE**
Shortie Franklin Fowler, Warsaw, Ohio
Application November 9, 1951, Serial No. 255,620
1 Claim. (Cl. 280—1.189)



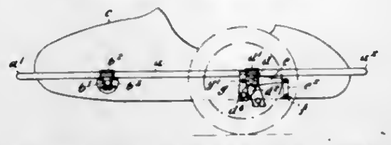
An attachment for two-wheeled cycles having a frame, a steering column and a front wheel fork comprising a figure in the shape of a horse, said figure being composed of a pair of complementary forward sections and a pair of complementary rearward sections, clamps for attaching said forward sections to said steering column and to said steering wheel fork, clamps for attaching said rearward sections to said frame, an upwardly swingable leg portion for each of said rearward sections, said leg portions forming a support for said cycle when in lowered position, and a clamp affixed to the inner side of each of said leg portions for removable engagement with said frame when said leg portions are in raised condition.

2,646,991
**MOTOR ROAD VEHICLE TORSION RESISTANT CHASSIS**
John H. Weaving, Moseley, Birmingham, Kenneth J. Dangerfield, Selly Oak, Birmingham, and Thomas K. Garrett, Rubery, near Birmingham, England, assignors to The Austin Motor Company Limited, Northfield, Birmingham, England
Application April 12, 1950, Serial No. 155,426
In Great Britain April 21, 1949
7 Claims. (Cl. 280—106)



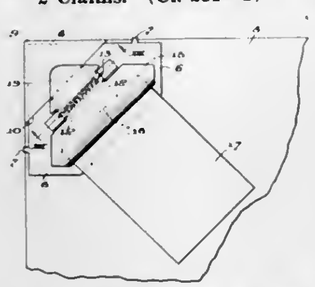
1. A chassis comprising a pair of channel members arranged in spaced face to face relation with the open side of one facing the open side of the other, top and bottom plates connecting the corresponding flanges of the channel members in fixed relation, end walls extending between the channel members and between the plates and secured thereto, said channels, plates, and end walls forming torsion boxes, and means spaced from the end walls and channels engaging the plates and urging the central portions of the plates in opposed directions for stressing the plates and increasing the rigidity of the chassis.

2,646,992
**SIDECAR FOR MOTORCYCLES**
Nicholas Straussler, Piccadilly, London, England, assignor to Swallow Coachbuilding Company (1935) Limited, Walsall, Stafford, England
Application September 27, 1949, Serial No. 118,000
In Great Britain October 12, 1948
4 Claims. (Cl. 280—203)



1. A sidecar comprising a frame member having two substantially parallel side members and two end members, a sidecar body, fore and rearwardly positioned transverse members supported by said side members and extending between said side members, a pivotal connection between said fore positioned transverse member and said sidecar body, and a resilient suspension between said rearwardly positioned transverse member and said sidecar body comprising a plurality of levers, one end of each of said levers being resiliently secured to said rearwardly positioned transverse member by a rubber bushing bonded to said member and to said lever, said levers extending rearwardly in a substantially horizontal direction, and shackle means connected between the sidecar body and the other ends of said levers.

2,646,993
**CLIP BOARD FOR HOLDING WRITING PAPER**
John Schwer, Pittsburgh, Pa.
Application June 24, 1952, Serial No. 295,270
2 Claims. (Cl. 281—1)

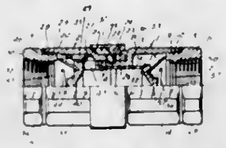


1. A clip board comprising a base plate, a clamping plate pivotally mounted thereon, on a diagonal axis adjacent to a corner of the base plate, a spring yieldably urging the inner edge of the clamping plate into gripping engagement with sheets that overlie an inner portion of the base plate, and down-turned lips at the marginal edges of the plate, set inwardly from the said corner, the said outer corner being adapted to be slid into a triangular pocket in a desk blotter holder and the lips engageable with the adjacent edges of said holder, at points removed from the triangular pocket.

2,646,994
**VALVED PIPE COUPLING**
Albert T. Scheiwer, Erie, Pa.
Application June 18, 1949, Serial No. 100,061
3 Claims. (Cl. 284—18)

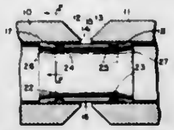
1. A coupling comprising a tubular male member having an external peripheral groove, a tubular female coupling member having a radially apertured, reduced, stepped portion, a cup-shaped check valve having radial apertures in the periphery thereof, and longitudinally slidable in the reduced portion of said female member, camming means disposed in said reduced portion apertures and engaging said peripheral groove, said check valve movable to hold said camming means in flush relation with the inside periphery of said reduced female portion, said check valve terminating in an external stepped end portion,





said male member having a cup-shaped, radially apertured check valve therein, engaged by said female check valve, said tubular male member being received in said female member between the stepped portion of said female member and the outside of said check valve stepped portion whereby said female member check valve is moved out of engagement with said camming means and said male member check valve is moved telescopically in said male member.

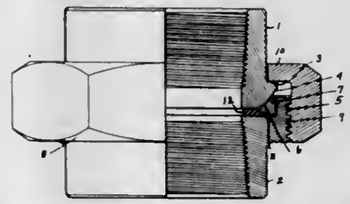
2,646,995
**BRAZED JOINT WITH BACKING RING**
Roland J. Thompson, Washington, D. C.
Application September 10, 1948, Serial No. 48,550
4 Claims. (Cl. 285—111)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A joint assembly including spaced ends of cylindrical members and a cylindrical backing ring having a pair of slightly raised ridges at either end thereof positioned in underlying relation to the ends of said members, the outer diameter of said ridges being substantially the same as the inner diameter of said members whereby to space the intermediate portion of said ring from said members to form a capillary concavity on the outside of said ring, said ring having an annular groove between said slightly raised end edges, brazing material originally in said groove and extending outwardly thereof for flowing into said cavity when fused, sealing said members to said ring, said ridges limiting dispersal of the brazing material, and said spaced ends of said cylindrical members being beveled to receive a welding material for bonding the spaced ends of the members and said ring together.

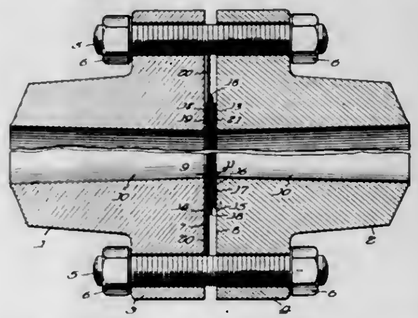
2,646,996
**UNION**
Daniel J. Parmesan, Houston, Tex., assignor, by mesne assignments, to Chiksan Company, Brea, Calif., a corporation of California
Application October 9, 1948, Serial No. 53,744
4 Claims. (Cl. 285—122)

1. A union which comprises, in combination, a first and a second coupling member, said first coupling member having an annular external outwardly curved face at one end, a seat ring of corrosion-resistant metal countersunk into one end of said second coupling member and having an annular inwardly flared face adapted to seat against the outwardly curved face of said first coupling member in an annular line contact to form a metal-to-metal seal therewith, an annular resilient seal ring seated in said second coupling member internally adjacent to said seat ring, said seal ring being adapted to fit in sealing relation with the surfaces at the ends of said coupling members internally adjacent to



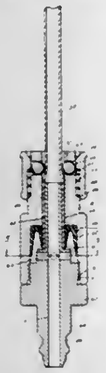
said faces forming said metal-to-metal seal, an external annular rib on said resilient seal ring, the inner margin of said seat ring overlapping and clamping said rib to thereby maintain said resilient seal ring in position in said second coupling member and means adapted to secure said coupling members together in such a manner that the respective curved and flared faces thereof form a metal-to-metal seal and the ends of said members internally adjacent to said metal-to-metal seal are in sealing relationship with said resilient seal ring.

2,646,997
**FLANGED PIPE JOINT**
John P. Magos, Wilmette, Edward G. Schmidt, La Grange, and Edmond P. De Craene, Westchester, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application July 30, 1949, Serial No. 107,704
6 Claims. (Cl. 285—139)



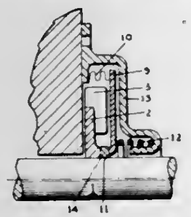
1. In connecting means for tubular members forming a substantially continuous port therebetween, the combination comprising of a pair of flanged tubular members having substantially different coefficients of linear expansion, a gasket interposed between the abutting surfaces of the flanged tubular members, the said gasket being made of a material having a coefficient of expansion intermediate to those of the two piping materials, the said flanged tubular members having oppositely disposed faces of a weld deposited material similar in coefficient of linear expansion to that of said gasket, bolting means for drawing the said flanged tubular members together in substantial abutting relation.

**2,646,998**
**COUPLING DEVICE FOR TESTING COILS AND THE LIKE**
**Albert T. Schelwer, Erie, Pa.**
**Application May 24, 1947, Serial No. 750,348**
**2 Claims. (Cl. 285—169)**



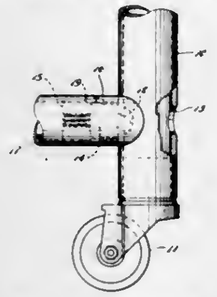
1. A coupling member for connection to the flared end of a tubular member comprising an axially bored cylindrical member, camming members carried by said axially bored cylindrical member, a male coupling member connected to one end of said axially bored cylindrical member, an outwardly extending supporting and guiding sleeve fixedly secured to said coupling member and disposed concentrically of said axial bore in said cylindrical member for engaging and supporting the inner surface of the flared end of said tubular member, and locking means for locking said camming members into engagement with the shoulder on said tubular member formed by the flared end thereof said locking means comprising a sleeve movable axially of said bored cylindrical body, said guiding and supporting means having an aperture therein and pressure actuated sealing means engaging said tubular member and said body member, said apertures being disposed to admit fluid from said axially bored portion to engage said sealing means.

**2,646,999**
**FLUID SEAL**
**Ulrich Max Willi Barske, Farnborough, England, assignor to Filton Limited, Leamington Spa, Warwickshire, England**
**Application January 19, 1949, Serial No. 71,647**
**In Great Britain January 23, 1948**
**1 Claim. (Cl. 286—9)**



A fluid pressure actuated seal for preventing the leakage of fluid between the relatively rotating parts of a shaft and housing, said seal comprising relatively rotatable co-operating parts for forming a contact seal and an annular retaining channel adapted to permit of access of a liquid thereto while said co-operating parts are in engagement, impeller means within said annular retaining channel adapted to rotate with said shaft and generate centrifugally a pressure in said liquid in said channel, a rigid annular plate having an inner circumferential rim, a ring abutting said impeller and engaging said circumferential rim in sealing operation, a cover plate, bellows connecting said cover plate and said annular plate, spring means within said cover plate biasing said annular plate against bodily movement and yielding to said centrifugal pressure to cause contact pressure between and the leakage pressure at the co-operating parts to be reduced or eliminated.

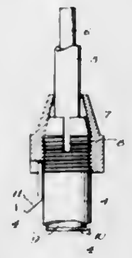
**2,647,000**
**ANGULAR TUBULAR JOINT ASSEMBLY**
**Russell S. Colley, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application October 21, 1948, Serial No. 55,777**
**3 Claims. (Cl. 287—54)**



1. An angular joint assembly comprising a support member, a supported member including a tubular end portion open at one end with the end edge thereof seated against said support member, the tubular end portion of said supported member having an internal circumferential groove formed therein and spaced inwardly from said end edge, an expansible hollow rivet having a relatively thick bottom wall portion and a relatively thin tubular skirt portion, said rivet being disposed wholly in said tubular end portion with the end of the skirt portion of said rivet disposed adjacent the end edge of said tubular end portion, said rivet having a circumferential expanded wall-portion projecting radially outwardly into said circumferential groove and in peripheral conformance with the wall of the groove for anchoring the rivet in said tubular end portion, and fastening means extending between said support member and said bottom wall portion of said rivet for connecting said members.

**2,647,001**
**FISHING ROD**
**Karl Elis Andersson, Enskede, Sweden**
**Application December 28, 1946, Serial No. 719,012**
**In Sweden February 25, 1946**
**3 Claims. (Cl. 287—58)**

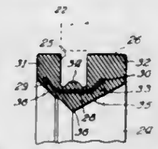
1. In a fishing rod, the combination of an elongated tubular fishing rod member, an internal bushing extending from one end of said member and formed with a split tapered extremity and with threads adjacent said tapered extremity, an inner fishing rod element slidable in the bore of said tubular fishing rod member and formed with an annular flange on one end engageable with the inner end of said bushing to limit the withdrawal of said inner fishing rod element from said tubular fishing rod member, a nut engaging said threads and provided with a tapered bore at one end engageable with said split tapered



extremity to tighten the latter about said inner rod element, and means fixed on said tubular rod member limiting the rotation of said nut.



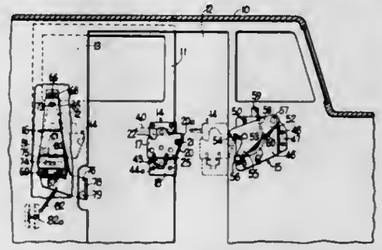
**2,647,002**
**OIL SEAL MEANS OR THE LIKE**
**Olin Brummer, Chicago Heights, Ill.**
**Application July 20, 1950, Serial No. 174,932**
**2 Claims. (Cl. 288—2)**



1. In oil seal means or the like, an arcuate body of elastomeric material having a peripheral outwardly radially opening groove therein with side body portions margining the groove, and a substantially rigid arcuate metallic insert embedded in said body, said insert being of channel-shape in cross-section having one portion extending axially of a center about which the body is arced and having side walls extending outwardly from the axially extending portion, a side wall extending into each side portion of said body at the sides of said groove respectively, said body having an integral arcuate sealing lip extending generally radially inwardly thereof, said insert extending substantially across the juncture between said lip and the remainder of the body portion and separating the sealing lip from the groove and there being elastomeric material of the body between the axially extending portion and said groove and between the insert and the sealing lip.

**2,647,003**
**DOOR LATCHING AND OPERATING MECHANISM**
**Glenn W. Way, Delaware, Ohio**
**Application April 6, 1950, Serial No. 154,253**
**2 Claims. (Cl. 292—128)**

2. A latch assembly for normally holding a slidable door in closed position but operable to start the door sliding towards open position comprising a latch lever pivoted to a support adjacent the path of sliding movement of the door for vertical swinging movement, said lever being pivoted intermediate its inner and outer edges and having an outwardly projecting latch portion and a cam roller at its outer edge below said latch portion, a handle at the inner edge of said latch, said latch portion engaging a latch-retaining portion on a keeper carried by the door as the door slides into closed position to latch the door in closed position, movement of the handle downwardly raising the latch portion of the lever to release it from said latch-retaining portion and swinging said roller outwardly into engagement with the keeper so as to force the door to initiate its sliding movement towards open position, said keeper being carried on the inside of the door and the latch assembly being



in substantially the same vertical plane inside the path of movement of the door, said latch lever being operable by said handle from inside the door, said keeper being mounted for downward movement so that the latch portion will be released thereby from the latch-retaining portion of the keeper and the keeper will be engaged by said cam roller, and a handle on the outside of the door and connected to said keeper for moving it downwardly when desired.

**2,647,004**
**DEVICE FOR ATTACHING FRONTS TO ELECTRICAL CABINETS**
**Henry M. Stieglitz, St. Louis, Mo., assignor to Frank Adam Electric Company, St. Louis, Mo., a corporation of Missouri**
**Application February 14, 1952, Serial No. 271,498**
**6 Claims. (Cl. 292—256.73)**

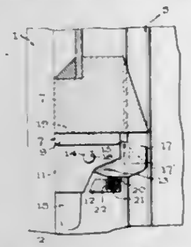


1. The combination with an electrical cabinet having a flange for attachment of a front, said flange having a cut-out therein for the accommodation of front attachment screws with substantial latitude of variation in position, the combination of means fixedly secured to said cabinet having a part disposed in parallel spaced relationship with said flange adjacent said cut-out, said part having an aperture aligned with said cut-out, and a free floating nut disposed between said part and said flange, said nut having a projection extending into said aperture.

**2,647,005**
**WINDOW SASH HOLDER**
**George Steingruber, Atlanta, Ga.; Minnie Baas Steingruber, executrix of said George Steingruber, deceased**
**Application March 8, 1951, Serial No. 214,564**
**9 Claims. (Cl. 292—342)**

1. The combination with a window frame having opposed vertical sash channels therein and having a groove extended at one side of and parallel to one of said sash channels, and a sash

slidably mounted in said sash channels, of a sash holder comprising a supporting bracket adapted to be connected to a horizontal edge of the sash adjacent to one side thereof, wedging means carried by said bracket and adapted to project into the groove at one side of one of the sash channels for selective wedging engagement and disengagement of the wedging means with the opposed faces of said groove to respectively hold the sash in and release the sash from any se-



lected vertical position in said sash channels, resilient means for normally urging said wedging means into wedging engagement with the groove aforesaid, said wedging engagement being augmented by the weight of the sash and being automatically released on movement of the sash in a direction opposed to the direction of the weight of the sash, and means for actuating said wedging means out of wedging engagement with respect to said groove.

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**2,647,006**
**TONGS**
**Irving B. Coyle, Portland, Oreg.**
**Application December 26, 1950, Serial No. 202,649**
**1 Claim. (Cl. 294—8.5)**

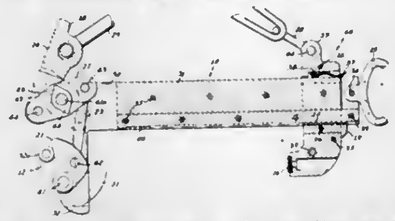


In a pair of tongs, a hinge assembly comprising two opposed channel members having apertured side flanges to receive a pivot pin, a pivot pin extending through said side flanges, said flanges extending the length of the channel members to receive a pair of tong arms and guide said arms in pivotal movement, tong arms in the respective channel members, said flanges engaging each other through substantially the full length of the members to maintain said tong arms parallel with each other, a sleeve surrounding said pivot pin and forming a strut between said flanges, abutment means on the ends of said pivot pin clamping said flanges against the ends of said sleeve, and a coil spring around said sleeve having extending end portions terminating short of the ends of said channels to engage portions of said arms within said channels.

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**2,647,007**
**ADJUSTABLE LIFTING CLAMP**
**Carl H. Gmoser, Maspeth, and Edward Merrill Gardner, Brooklyn, N. Y., assignors to Merrill Brothers, New York, N. Y., a corporation of New York**
**Application May 18, 1950, Serial No. 162,672**
**3 Claims. (Cl. 294—81)**

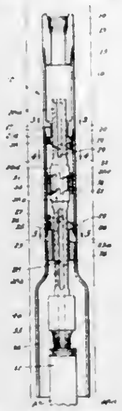
1. An adjustable lifting clamp comprising a tension beam having a head including a fixed clamping jaw extending from one side of the beam, said tension beam comprising a pair of similar steel side plates mounted face to face in spaced relation, a spacer bar mounted between said plates from substantially the head of the beam to the opposite end of the beam thereby providing a space between the portions of the plates forming the head of the clamp and jaw, means for securing said plates and bar in a compact rigid assembly, a slidable jaw mounted on said beam facing said fixed jaw, means for retaining said slidable jaw in position along said beam, a cam pivoted between the plates in the lower portion of the fixed jaw and adapted to be rotated toward the slidable jaw in a lifting operation, leverage means mounted between the plates in said head including a radius link pivoted in the



upper portion of the head and extending generally in the direction of the beam, a pair of compression connecting links arranged in parallel with one end of the pair of links pivoted to the inner end of the radius link, the other end of the pair of connecting links being pivoted to the cam inwardly from its pivot point with respect to the plates forming the jaw, and a forked lifting linkage one leg of which is pivotally connected to the slidable jaw and the other leg of which is pivotally connected to the outer end of the radius link, whereby the application of a force to the outer end of the radius link applies pressure through the radius link to said pair of connecting links to force the cam toward the slidable jaw of the lifting clamp.

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**2,647,008**
**RETRIEVING ARRANGEMENT FOR WELL DRILLING OPERATIONS**
**Leonard E. Stewart, Midland, and Marvin J. Winters, Odessa, Tex., assignors, by mesne assignments, to Tri-State Oil Tool Company, Inc., Shreveport, La., a corporation of Louisiana**
**Application August 10, 1950, Serial No. 178,638**
**11 Claims. (Cl. 294—86)**

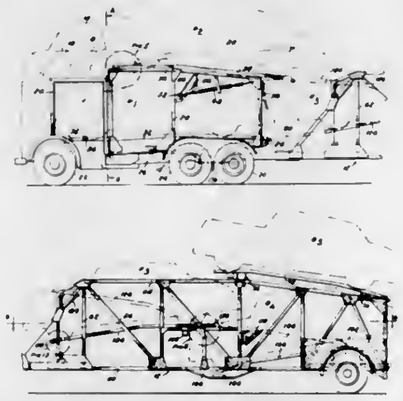


1. A retrieving arrangement for use with drill pipe comprising a tubular sub attachable to a drill pipe, tubular means attached to the sub and divided into two compartments, a tubular rod movable reciprocally in the tubular means, oppositely acting ratchet teeth carried at spaced apart points in said tubular means, oppositely acting ratchet teeth carried by the tubular rod for engagement respectively with the first named ratchet teeth, coupling means carried by the tubular rod for coupling it to a fish, and passageways in the tubular rod permitting flow of wash fluid through the sub and outwardly of said tubular rod notwithstanding a plugged condition of said fish.



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**2,647,009**
**APPARATUS FOR MOTOR TRANSPORTS**
**Paul J. Huebshman, Dearborn, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan**
**Application January 16, 1950, Serial No. 138,912**
**19 Claims. (Cl. 296—1)**

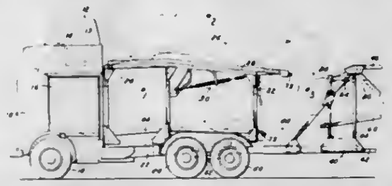


19. A five-car motor transport comprising a truck vehicle, a trailer vehicle, a forward lower track on said truck vehicle, a forward upper track on said truck vehicle, a lower rear track on said trailer vehicle, an upper rear track on said trailer vehicle, and an intermediate track on one of said vehicles, said intermediate track being movable from a forwardly and upwardly inclined position in which it connects said lower rear track with said forward upper track, and a forwardly and downwardly inclined combined loading-transit position in which it connects said lower rear track with said forward lower track, each of said tracks being of a length sufficient to support both the front and rear wheels of a single automobile, said tracks being so disposed that each may support an automobile simultaneously without interference with the automobiles on the remaining tracks.

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**2,647,010**
**METHOD OF LOADING MOTOR TRANSPORTS**
**Paul J. Huebshman, Dearborn, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan**
**Application January 16, 1950, Serial No. 138,913**
**4 Claims. (Cl. 296—1)**

1. The method of nesting five cars each of which has a relatively low front and rear portion and an elevated central portion on a transport having an elevated cab with stowage space therebeneath which comprises placing two cars in superimposed forward position with the forward end of the lower car beneath the cab and the forward end of the upper car located rearwardly of the cab, placing an intermediate car with its forward end beneath the rear of the uppermost of the two forward cars and with



the rear of the intermediate car elevated to dispose the intermediate car at a small forward and downward angle, and placing two rear cars in superimposed position with the forward ends of said cars overlapping the rear end of the intermediate car.

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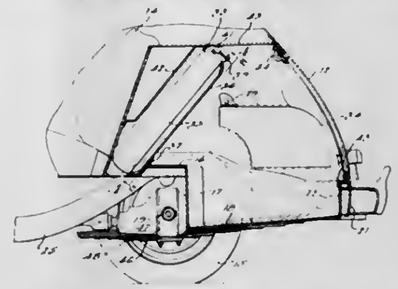
**2,647,011**
**TIRE MOUNTING UNDER HOOD ACCESSIBLE THROUGH DOOR OPENING**
**Brooks Walker, Piedmont, Calif.**
**Original application October 23, 1946, Serial No. 705,089. Divided and this application July 6, 1949, Serial No. 103,292**
**3 Claims. (Cl. 296—37.2)**



3. In a vehicle body having front doors and a hood, a cooperating pillar and rail at the front of the body and door edge respectively, the pillar having an opening therein between its inner and outer edges sufficient for the passage of a tire therethrough, and a compartment forwardly of said door and at least partially beneath the hood for the reception of a spare tire, said door having a rail matable with said pillar for engaging the tire in the opening of the pillar and for closing said opening when the door is closed.

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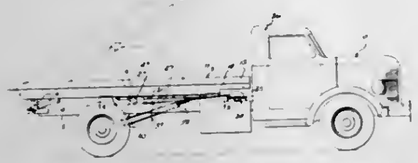
**2,647,012**
**AUTOMOTIVE VEHICLE LUGGAGE COMPARTMENT AND SPARE WHEEL CARRIER**
**Brooks Walker, Piedmont, Calif.**
**Application October 23, 1946, Serial No. 705,090**
**6 Claims. (Cl. 296—37.2)**



1. In an automobile body of the passenger type having a forward engine compartment, a central

passenger compartment and a rear luggage compartment, said passenger compartment having a front and rear seat provided with seat and back cushions, said rear luggage compartment having a kick-up portion on the floor thereof to clear the differential of the automobile, a spare wheel, a recess forwardly of the kick-up and rearwardly of the rear seat for receiving the bottom edge of the spare wheel, and means for supporting the spare wheel substantially parallel to the plane of the back cushion of the rear seat of the vehicle.

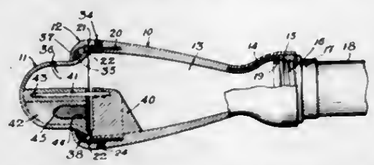
**2,647,013**
**WINCH-OPERATED HOIST TRUCK**
**Jasper C. Stuart and Gerard D. Darnell, Hoisington, Kans.; Lee Ona Stuart, administratrix of said Jasper C. Stuart, deceased**
**Application April 5, 1949, Serial No. 85,624**
**3 Claims. (Cl. 298—21)**



1. In a truck having a wheeled frame, a horizontally disposed dump bed arranged in longitudinal superimposed spaced relation with respect to said frame and having one end connected to said frame for movement from its horizontal position to an upstanding position, a pair of track members arranged longitudinally of and below said dump bed and dependingly carried by the latter, a shaft arranged transversely of and below said track members intermediate the ends of the latter and fixedly secured to said frame, a sleeve mounted on said shaft for rotation about the latter, a pair of horizontally disposed arms arranged in longitudinal spaced relation positioned intermediate and below said track members and having one end fixedly secured to said sleeve, a pair of spaced rotatable rollers carried by the other end of said arms and rollably engageable with said track members, a rotatable pulley positioned below and spaced from said sleeve and dependingly supported from the latter, a rotatable drum positioned below said bed adjacent the other end of the latter and carried by said frame, a guide roller arranged between and in parallel spaced relation with respect to said pulley and drum and supported by said frame, and a flexible member wound about said drum and trained over said pulley and guide roller and having one end fixedly secured to said frame.

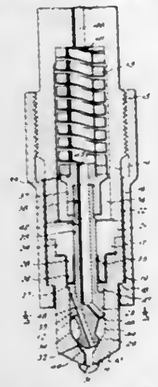
**2,647,014**
**SPRINKLER HEAD**
**Raleigh M. Edwards, Sacramento, Calif.**
**Application July 25, 1952, Serial No. 300,825**
**6 Claims. (Cl. 299—107)**

1. A sprinkler head comprising an elongated body having a bore extending therethrough from one end to the other and provided at one end with internal screw threads engageable with an externally screw threaded terminal coupling on a garden hose, said body having an annular shoulder at its other end and external screw threads extending therearound adjacent said shoulder, a hollow dome-shaped nozzle having a water discharge opening therein and having at its open end an external annular flange disposed adjacent said shoulder, and a ring nut threaded onto the external screw threads on said body and overlying



the flange on said nozzle to secure the flange between said nut and said shoulder with said nozzle extending through said ring and away from the adjacent end of said body.

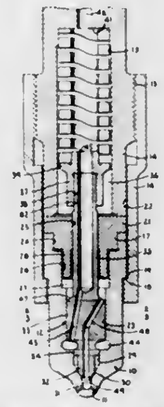
**2,647,015**
**FUEL INJECTOR**
**Martin J. Berlyn, Suffield, Conn., assignor to American Locomotive Company, New York, N. Y., a corporation of New York**
**Application March 17, 1951, Serial No. 216,220**
**12 Claims. (Cl. 299—107.5)**



1. An inwardly opening differential type fuel injector comprising a nozzle holder; a nozzle having a central chamber and a fuel pressure chamber therein; a reciprocating valve in the nozzle separating the chambers and having a fuel pressure surface in the central chamber; a spring normally urging the valve to seated position; fuel transmission means leading to the fuel pressure chamber; and fuel pressure balancing means connecting the chambers when the valve is unseated thereby to hydraulically balance the valve so that the spring will seat the valve.

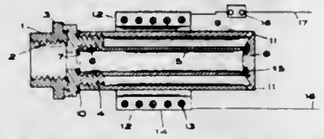
**2,647,016**
**FUEL INJECTOR**
**Martin J. Berlyn, Suffield, Conn., assignor to American Locomotive Company, New York, N. Y., a corporation of New York**
**Application May 28, 1952, Serial No. 290,531**
**12 Claims. (Cl. 299—107.5)**

1. An inwardly opening differential type fuel injector comprising a nozzle holder; a nozzle having a central chamber, a fuel pressure chamber, and a valve seat therein; a valve reciprocable in the nozzle separating the chambers and having a fuel pressure surface exposed to the central chamber; a spring normally urging the valve axially toward its seated position; fuel transmission means supplying the fuel pressure chamber; fuel pressure balancing means connecting the chambers; and means on the valve to delay delivery of fuel from the pressure chamber to the valve seat until the valve has been lifted a pre-



determined distance off its seat thereby to hydraulically balance the valve after it has moved a predetermined distance from its seat so that the spring will rapidly seat the valve.

**2,647,017**
**NOZZLE**
**James H. Coulliette, Chattanooga, Tenn., assignor to Industrial Research Institute of the University of Chattanooga, Chattanooga, Tenn.**
**Application April 19, 1951, Serial No. 221,757**
**4 Claims. (Cl. 299—144)**

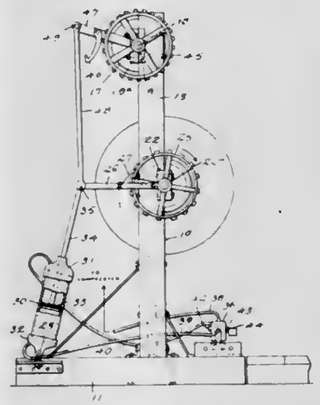


1. In a nozzle, means including material of relatively poor heat conductivity for connecting with a source of fluid, an inner conduit for said fluid attached to said material, an outer casing member attached to said material and surrounding said inner conduit and spaced therefrom, a portion of said casing member acting as a valve to seal said conduit against fluid flow therethrough when said outer casing member contracts sufficiently with change of temperature, said casing member having an opening therein for discharge of said fluid.

2. The device of claim 1, and means for heating said casing member.

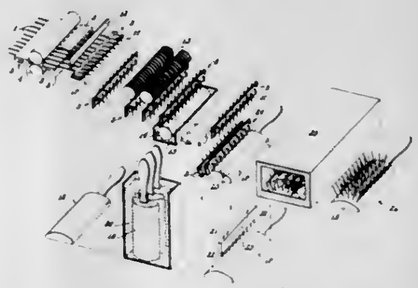
**2,647,018**
**BRUSH MAKING MACHINE**
**Richard F. Lange and Morris W. Cucksey, Pontiac, Mich.**
**Application August 20, 1951, Serial No. 242,632**
**1 Claim. (Cl. 300—14)**

In a brush making machine comprising a base frame, a pair of uprights carried by said frame, an upper horizontal shaft journalled between said uprights, a cable drum on said shaft, a lower horizontal shaft journalled between said uprights, a pneumatic operator carried by said base, pawl and ratchet means between said operator and said lower shaft, a pair of parallel horizontal guide bars carried by said base, a control valve slidable on said guide bars, tubular connections between said valve and said operator, a pipe for connecting said valve to a pressure supply source, a ratchet carried by said upper shaft, a pawl carrying lever rockably carried by said upper shaft, a pawl carried by said lever engageable



with said latter ratchet, and a link connection between said operator and said lever, said second named pawl being disengaged from said second named ratchet when said first named pawl and ratchet means is operative, said second named pawl effecting reverse rotation of said upper shaft and cable drum to thereby wind a cable on said drum.

**2,647,019**
**METHOD OF MAKING FILAMENT BRISTLE BRUSHES**
**Charles Edgar Maynard, Florence, Mass., assignor to Pro-phy-lac-tic Brush Company, Florence, Mass., a corporation of Delaware**
**Application June 1, 1949, Serial No. 96,518**
**13 Claims. (Cl. 300—21)**



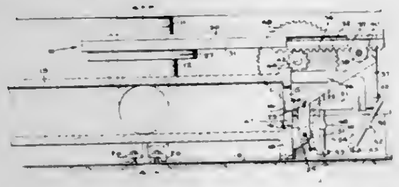
1. In a method of making a brush the steps which comprise arranging a plurality of filaments of bristle material in spaced relation, confining the end portions of the so-arranged filaments in a unitarily movable clamp, severing the filaments rearwardly of the clamp to leave the severed portions of the filament in the form of a plurality of individual bristles of desired length and spacing within the clamp and movable therewith for handling as a unit, said severed bristles being free from each other except for the confining action of the clamp.

2,647,020

## APPARATUS FOR CONVEYING DUST, FLY ASH, AND THE LIKE

John H. Hampton, Oaklyn, N. J., assignor to Beaumont Birch Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 21, 1949, Serial No. 72,010
8 Claims. (Cl. 302—40)



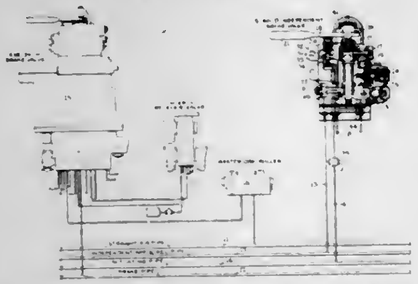
1. In a vacuum material handling system having a material collecting hopper operatively related to a vacuum material collecting conduit having an air inlet, a gate for said hopper interposed between the same and said conduit at a point spaced from said air inlet and a closure member for said air inlet, said gate comprising fixed spaced parallel upper and lower guide plates and a movable closure plate adapted to slide between said guide plates, said fixed plates having interiorly disposed openings axially aligned with each other and with the discharge end of said hopper, said closure plate also having an interiorly disposed opening adapted to either register with said fixed plate openings in the opened position of said gate or to be covered by said upper plate in the closed position of said gate as said closure plate slides between said fixed plates, a rack on said closure plate and a driven pinion in engagement with said rack for moving said closure plate to gate opening and gate closing positions, said air inlet closure member being mounted on an arm for movement toward and away from said air inlet, said closure plate in the closed position of said gate being adapted to engage said arm to move said closure member toward said air inlet to close the same.

2,647,021

## ELECTRIC CONTROL FOR INDEPENDENT RELEASE PORTIONS OF AIR BRAKE CONTROL VALVES

Mark Pickert, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey

Application January 11, 1951, Serial No. 205,477
4 Claims. (Cl. 303—26)



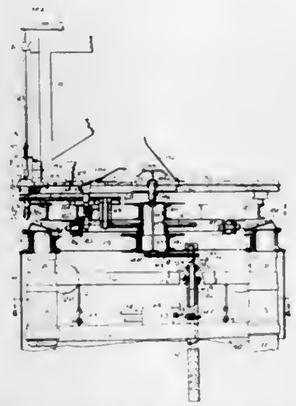
1. The combination of a multiple-unit locomotive brake system comprising a plurality of control valves each having an independent application-and-release portion including a pilot valve and a pressure motor for operating the pilot valve; an application-and-release pipe connected to said application-and-release portions; an actuating pipe connected to said application-and-release portions; an independent brake valve connected to both said pipes said valve including a release-controlling electric switch and being capable of two manipulations, in one of which it varies fluid pressure in the application-and-release pipe and in the other of which it may be caused to charge or vent the actuating pipe and simultaneously therewith open or close said release-controlling electric switch; an electrically operable admission and exhaust valve controlling said pressure motor; a circuit including said release-controlling switch and said electrically operable valve; and means operable to interrupt selectively said circuit and said actuating pipe whereby they are rendered selectively effective as the control connection between said independent brake valve and said pressure motor.

2,647,022

## TOWER VEHICLE

James Smid and Merton Smith, Cleveland, and Frank A. Leskovec, Geneva, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri

Application July 31, 1948, Serial No. 41,814
1 Claim. (Cl. 304—32)



For use in a tower vehicle including a tower, a track structure rigidly mounted on the upper end of the tower and provided with lock-forming means having a plurality of upwardly opening detent recesses, a turntable rotatably mounted on the track and a platform carried by the turntable having a floor provided with an opening through it; a hinged trap door adapted to cover said opening, a lock for the turntable including a vertically shiftable bolt, the lower end of which is adapted for optional engagement in any one of the detent recesses, said bolt having a head projecting upwardly toward the opening and terminating in downwardly spaced relation to the top surface of the floor, said bolt being provided at such upper end with oppositely projecting diametral pins, a projection on the underside of the trap door extended beyond its hinge and adapted to extend under said pins when the trap door is in an upwardly inclined position, whereby the operator by standing on the trap door in such position may elevate the lock to idle position by swinging downwardly the free edge of the trap door.

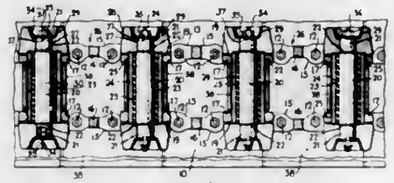


2,647,023

## TRACK FOR TRACK-LAYING VEHICLES

LeRoy M. Kubaugh, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application October 19, 1948, Serial No. 55,351
12 Claims. (Cl. 305—10)



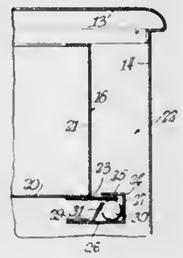
1. A hinge unit for endless tracks for track-laying vehicles comprising a sleeve, a pair of links each having one end surrounding said sleeve at opposite ends thereof and affixed thereto against relative rotation, a tubular pin within said sleeve, a rubber bushing in radially compressed condition between said pin and said sleeve, a pair of links each having an end located outside said sleeve and each having an opening axially aligned with said sleeve, a bolt received in said pin, washers secured by said bolt, each said washer having keying means engaging an outside link and engaging said pin.

2,647,024

## DRAWER GUIDE

William D. Meagher, Villa Park, Ill., assignor to Artcrest Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application November 12, 1949, Serial No. 126,838
1 Claim. (Cl. 308—3.8)



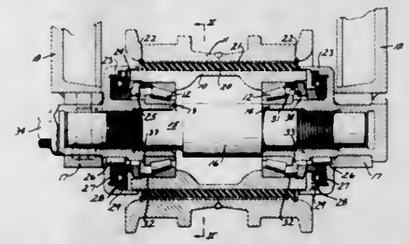
As an article of manufacture, a drawer supporting rail embodying therein a sheet metal channel member having upper and lower flanges connected along one side by a web, a ball having rolling movement longitudinally upon said lower flange, a sheet metal member extending longitudinally of and shorter than said rail and having a portion secured flatwise to the free margin of the lower flange and a second and integral portion extending upwardly and inwardly of the rail and overhanging one side of the ball above its center and confining the same against upward displacement relative to said lower flange, end parts of said second portion of said member being separated from the first mentioned portion and bent laterally toward said web and limiting the length of rolling movement of said ball upon said lower flange.

2,647,025

## WHEEL STRUCTURE

John L. Deffenbaugh, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California

Original application December 17, 1948, Serial No. 65,760. Divided and this application April 28, 1950, Serial No. 158,640
3 Claims. (Cl. 308—187.1)



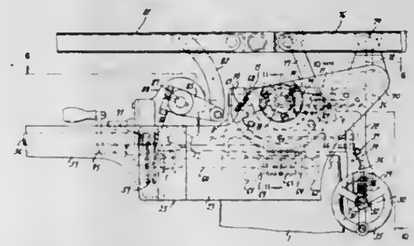
1. In a wheel structure which includes a hub supported for rotation on spaced bearings, a removable bearing supporting member for each bearing, a sealing assembly on each bearing supporting member to prevent entry of foreign matter to the bearings, and means including a part of the bearing engageable by a part of the seal to prevent breaking of the seal formed by the sealing assembly upon its removal from the wheel structure.

2,647,026

## SECTIONAL TOP OPERATING TABLE WITH ADJUSTMENT MECHANISM

Hyman Robert Shampaine, Clayton, Mo.

Application August 3, 1951, Serial No. 240,074
4 Claims. (Cl. 311—7)

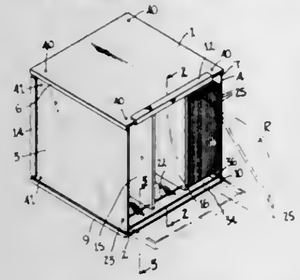


1. A surgical operating table comprising a pedestal, a hydraulically actuated piston operatively mounted on the pedestal, a main-frame operatively mounted on the upper end of the piston, said main-frame having a forward end and a rearward end, a seat panel having a forward end and rearward end, said seat panel being pivotally mounted on the main-frame adjacent the forward end thereof for tilting movement about an axis extending transversely across the main-frame, a leg panel pivotally mounted on the forward end of the seat panel, a back panel pivotally mounted on the rearward end of the seat panel, first and second rotary driving means operatively mounted in the main-frame, a first link operatively connected to the first rotary driving means and pivotally connected to the seat panel rearwardly of its point of pivoted connection to the main-frame for tilting the seat panel up and down around its axis, a second link operatively connected to the second rotary driving means and pivotally connected to the back panel rearwardly of the point of pivotal connection between the back panel and the seat panel for caus-

ing the back panel to articulate with respect to the seat panel, and means for mechanically tilting the main-frame with respect to the piston.

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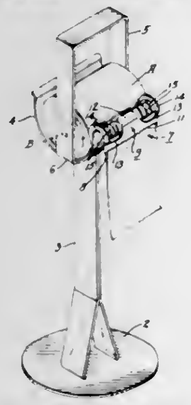
**2,647,027**
**RECORD STORAGE CABINET**
**Arthur Wallach, Cleveland Heights, Ohio**
**Application May 16, 1951, Serial No. 226,684**
**4 Claims. (Cl. 312—13)**



1. In combination with a record cabinet having an open front, a rod fixedly secured to said cabinet adjacent said open front and parallel to the plane thereof, a plurality of record-containing envelopes disposed vertically within said cabinet and each pivotally secured to said rod for rotation to a position exteriorly of said cabinet, said rod being disposed substantially adjacent the bottom of said cabinet, and means for supporting said envelopes when said envelopes are rotated to a position exteriorly of said cabinet, said means comprising a U-shaped supporting member slidably secured to said cabinet for rectilinear movement relatively thereto independently of the movement of said envelopes, the arms of said supporting member being slidably secured to the sides of said cabinet and the web of said supporting member being coextensive with the open front and movable to a position forwardly of the open front of said cabinet adjacent the bottom thereof.

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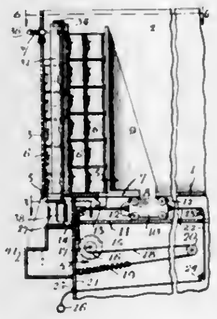
**2,647,028**
**ROLL PAPER DISPENSER**
**Conrad N. Larson, San Francisco, Calif.**
**Application June 20, 1950, Serial No. 169,146**
**2 Claims. (Cl. 312—39)**



1. A dispenser for roll paper comprising a rounded cradle open at the top to receive a roll of paper therein, the roll of paper resting loosely on the bottom of the cradle, the radius of curvature of said cradle being greater than the radius of curvature of a roll of paper with which it is adapted to be used, one end of said cradle provided with a dispensing lip, said lip formed by curving outwardly and downwardly said end of the cradle with respect to the cradle, and a cutter blade carried by said lip adjacent the bottom thereof and spaced outwardly therefrom, said blade spaced substantially below the top of said lip, said cutter blade being provided with a centrally disposed relatively narrow protuberance extending upwardly from the upper edge thereof and curved in conformity with said lip to overlie the same in parallel relation thereto.

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**2,647,029**
**VENDING MACHINE**
**Paul Deland, Montreal, Quebec, Canada**
**Application June 11, 1951, Serial No. 231,027**
**In Canada August 10, 1950**
**2 Claims. (Cl. 312—46)**



1. A vending machine comprising a floor, a plurality of partitions thereon forming compartments, a window spaced forwardly of said floor to form an opening adjacent to said floor, a platform beneath said opening, a vertical pusher slidable in each compartment means tending to move said pushers forward to advance the articles in tiers, a pair of wings pivotally mounted over said opening at each compartment and converging rearwardly against a tier of articles, springs holding said wings in the converged position, a cam between the wings of each pair for spreading them to admit a tier of articles, and a cam-operating member passing through said window.

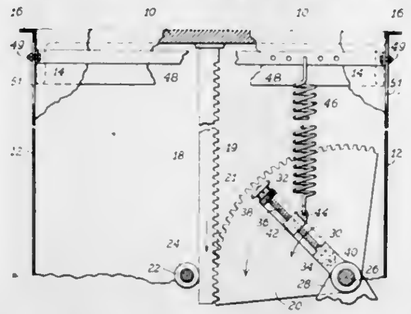
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**2,647,030**
**SELF-LEVELING STORING AND DISPENSING APPARATUS**
**James L. G. Fitz Patrick, New York, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey**
**Application March 31, 1948, Serial No. 18,248**
**5 Claims. (Cl. 312—71)**

1. A self leveling material storing and dispensing apparatus comprising, a housing, a table reciprocable vertically between the top and bottom of said housing for supporting material so that the top of the material is maintained at all times at a predetermined level above the top of said housing, a flexible member for supporting said table, a rotatable member coacting with said flexible member to raise and lower said table a distance correlated with the weight of each decrement and increment removed from and added



to the material on said table, a lever arm interconnected with said rotary member for rotation therewith, a calibrated spring connected at one end to said housing and at the other end to a movable connection mounted on said lever arm,



and mechanism for changing the position of said movable connection along the length of said lever arm to change the amount of force exerted by said rotary member on said flexible member to thereby change the material carrying capacity of the dispenser.

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**2,647,031**
**KEY RECEIVER AND TIME CHECKING APPARATUS**
**Eugene F. Kopecky, San Diego, Calif.**
**Application September 12, 1949, Serial No. 115,269**
**6 Claims. (Cl. 346—20)**

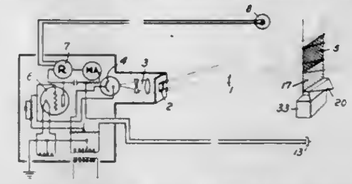


1. In a time checking apparatus, a time clock, electrical switch means in connection therewith, a key chute, a plurality of pivoted superimposed key receivers normally aligned with said chute and adapted to consecutively receive keys and to pivot with the weight of said keys out of alignment with said chute, and means above said key receivers for operating said switch means each time keys are received in one of said key receivers.

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**2,647,032**
**DETECTING DEVICE FOR FAST-MOVING OBJECTS**
**Lloyd L. Holiday and Nellie M. Holiday, Cheyenne, Wyo.**
**Application March 31, 1950, Serial No. 153,021**
**3 Claims. (Cl. 346—33)**

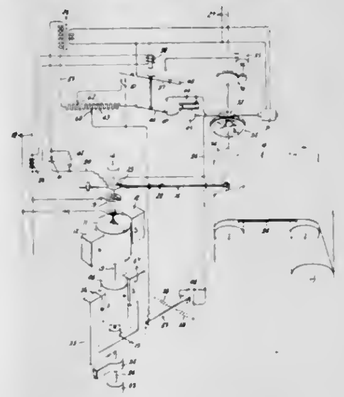
1. Apparatus for the detection of and recording the passage of fast moving objects through a specific but ill-defined area, enclosed within imaginary lines, comprising in its essentials two photo-electric recording devices, each receiving a beam of light through individual lens systems, source of said light being the natural or artificial lighting of the vicinity, said beams intersecting to form the area through which the fast moving object is required to pass, one of said devices having an adjustable aperture to define said area, each photo-electric device actuating a separate amplifying and recording device, wherein said first device is positioned between the pitcher's box and the home plate of a baseball diamond



so as to project the light defined area above the batter's knees and below the batter's shoulders and horizontally of the home plate width, wherein said second device is positioned below the front line of the home plate so as to project the light defined area vertically along the 17-inch width of the home plate, wherein said apparatus is externally controlled to provide intermittent readings at the desire of the umpire, by manipulating or actuating an electrical contact at a predetermined distance from said apparatus.

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**2,647,033**
**SPARK STYLUS RECORDING APPARATUS**
**Harold T. Faus, Lynn, Mass., assignor to General Electric Company, a corporation of New York**
**Application June 11, 1952, Serial No. 292,925**
**10 Claims. (Cl. 346—74)**



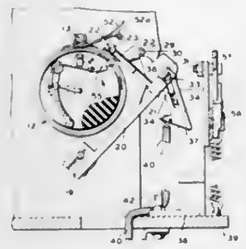
1. Recording apparatus in which the recording rate is subject to variation, comprising means for movably supporting a record sheet, such sheet being of a type on which a record may be reproduced by localized heating, means for moving said record sheet, an instrument having a recording arm movable relative to said record sheet, a stylus member carried by said arm and resting lightly on the record sheet, spaced electrodes across which an electric spark may be produced, at least one of said electrodes being located on said stylus closely adjacent to the record sheet such that when an electric spark passes between the electrodes it produces a record on the closely adjacent portion of the record sheet, a source of electric sparking voltage,

connections from said source to said electrodes, switching means included in said connections for varying the average electric spark energy available at said electrodes, and means operating substantially concurrently with increases and decreases in the recording rate for actuating said switching means to make corresponding changes in the available record producing spark energy, such that clear records are produced without destructive burning of the chart.

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2,647,034
**SHEET WRAPPER MECHANISM FOR FACSIMILE MACHINES**
**Charles Jelinek, Jr., Verona, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York**
**Application August 25, 1950, Serial No. 181,375**
**8 Claims. (Cl. 346—138)**

1. A facsimile machine having a flexible wrapper mounted at one end and adapted to receive a sheet of paper for inside scanning, a cylindrical support associated with said wrapper, a curved rigid plate secured to the outer side of the free end of said wrapper and tiltable with said free end relatively to the body of the wrapper, an actuating device connected to said wrapper for



closing the same around said cylindrical support, and mechanical means controlled by said device for tilting said rigid plate relatively to the flexible portion of the wrapper adjacent thereto before the latter is closed.

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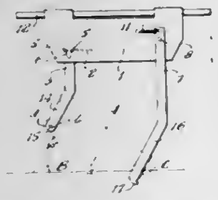
# CHEMICAL

2,647,035
**DYEING OF TEXTILE MATERIALS USING ALKYLAMINE ALGINATE THICKENERS**
**William J. Cramer, Jr., and Harry W. Fritz, Jr., Cumberland, Md., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware**
**No Drawing. Application June 30, 1951, Serial No. 234,654**
**12 Claims. (Cl. 8—59)**

6. Process for the coloration of organic derivative of cellulose materials, which comprises applying to the said materials a coloring medium comprising a solution of a dyestuff in a mixture of water and at least about 5% by weight of a lower aliphatic alcohol, said dyebath being thickened with an alkylamine alginate selected from the group consisting of diethylamine alginate, dipropylamine alginate and dibutylamine alginate.

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2,647,036
**CURVING CELLULOSE COLLAR BLANKS BY DIFFERENTIAL SHRINKING WITH CHEMICAL SHRINKING AGENTS**
**Ernest Alfred Wood, Manchester, England, assignor to Hogg & Mitchell Limited, Manchester, England**
**Application November 16, 1949, Serial No. 127,717**
**In Great Britain August 17, 1946**
**4 Claims. (Cl. 8—116)**



1. A process for imparting a curvilinear form to a collar blank made of a cellulose fabric, comprising the steps of chemically shrinking to a first predetermined degree, with a chemical shrinking solution for cellulose fabric, a first area of said collar blank located along the free longitudinal edge of the collar band of said collar blank; chemically shrinking to a second predetermined degree less than said first predetermined degree, with a chemical shrinking solution for cellulose fabric, a second area of said collar blank located about and next to said first area; and removing from each of said areas the chemical shrinking solution with which it is shrunk.

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2,647,037
**MERCERIZATION**
**William F. Luther, Chattanooga, Tenn., assignor to Dixie Mercerizing Company, Chattanooga, Tenn., a corporation of Tennessee**
**Application January 2, 1948, Serial No. 341**
**4 Claims. (Cl. 8—151.1)**



4. The method for continuously mercerizing cotton thread that comprises moving a single thread in a generally helical path having arcs and upper and lower generally horizontal connecting runs therebetween, the centers of the arcs being spaced apart more than the sum of their radii, rubbing the thread in the upper connecting run of its helical path opposite to the direction of progression of the helix to impart rotary and lateral movement to succeeding lengths of the thread and to close adjacent coils of thread into mutual contact, rubbing a mercerizing liquid onto succeeding portions of the thread during its passage through lower connecting runs of its helical path near the beginning thereof, rubbing a washing liquid onto succeeding portions of the thread during its passage through lower connecting runs of the remainder of its helical path and squeezing the thread between each lower run and the next succeeding upper run.



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2,647,038
**WATER SOAKING OF RAYON CAKES BEFORE CENTRIFUGAL WASHING**
**Edward Doud, Richland, Wash., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application April 14, 1949, Serial No. 87,580**
**3 Claims. (Cl. 8—155.1)**

1. A process for producing high quality viscose yarn of uniform luster which comprises immersing a bucket cake of viscose yarn in water until the cake absorbs about 300% by weight of water based on the dry weight of the yarn, while maintaining the salt concentration within said cake at least at 5%; thereafter multipoint collapsing the said cake to reduce its overall periphery; and centrifugally washing the collapsed cake while supporting substantially its entire exterior.

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2,647,039
**SOAKING OF RAYON BUCKET CAKES BEFORE CENTRIFUGAL WASHING**
**Frederick Roy Millhiser, Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application April 14, 1949, Serial No. 87,581**
**11 Claims. (Cl. 8—155.1)**

1. A process for producing high quality viscose yarn of uniform luster which comprises wetting out the bucket cake of said yarn with a softening agent, comprising a 15 to 30% aqueous solution of a compound of the class consisting of the sodium and ammonium salts of sulfuric acid until said cake contains about 300% of said softening agent based on the dry weight of the yarn; thereafter multipoint collapsing said cake to reduce its overall periphery; and centrifugally bucket washing the collapsed cake while supporting substantially its entire exterior.

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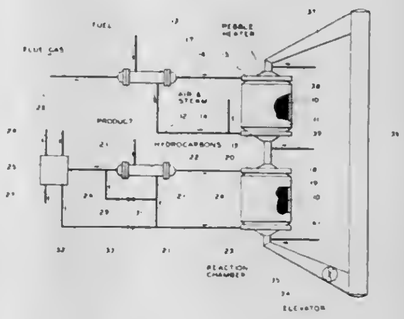
2,647,040
**STABILIZATION OF RAYON CAKE SIZE BEFORE CENTRIFUGAL WASHING**
**William Russell O'Brien and George Randolph Scantling, Chesterfield County, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application November 9, 1949, Serial No. 126,302**
**4 Claims. (Cl. 8—155.1)**



1. A process for wetting out and circumferentially shrinking an acid rayon yarn cake which comprises flexibly supporting said cake internally throughout its length; gently showering the outer wall of said supported cake with about five pounds per minute of water for, about at least, one minute, said water being in the form of an evenly distributed steady, uniform stream; and permitting the resultant showered cake to drain freely.

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2,647,041
**PRODUCTION OF HYDROGEN FROM HYDROCARBONS**
**Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**
**Application April 15, 1946, Serial No. 662,149**
**15 Claims. (Cl. 23—212)**



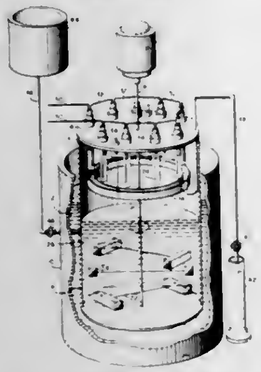
1. A continuous process for producing hydrogen which comprises continuously passing a hydrocarbon gas thru a reaction zone in contact with a compact countercurrent stream of hot pebbles essentially constituted of at least one metallic material of the class consisting of iron, nickel, chromium, and copper and at such a temperature that said gas is substantially cracked to hydrogen and carbon, transferring said pebbles from said reaction zone to a heating zone, reheating said pebbles to above cracking temperature by contacting them in said heating zone with a countercurrent stream of water gas and hot blue gas devoid of free oxygen, whereby substantial oxidation of said pebbles is avoided, transferring said pebbles to said reaction zone to complete a cycle of operation, and recovering the hydrogen produced.

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2,647,042
**PRODUCTION OF HYDROGEN-RICH GASES**
**George Alexander Mills, Ridley Park, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application July 23, 1946, Serial No. 685,765**
**8 Claims. (Cl. 23—212)**

1. The process which comprises the steps of effecting catalytic conversion of hydrocarbons at an elevated temperature in the presence of a refractory inorganic contact mass with the concomitant deposition of a non-volatile hydrocarbonaceous material on said contact mass, after the termination of the step involving the catalytic conversion of hydrocarbons, subjecting contact mass comprising said non-volatile hydrocarbonaceous material to thermal treatment in the presence of inert gas and in a non-oxidizing atmosphere at a temperature above 1200° F. and not in excess of 1800° F., thereby decomposing said hydrocarbonaceous material with the evolution of gas consisting predominantly of hydrogen.

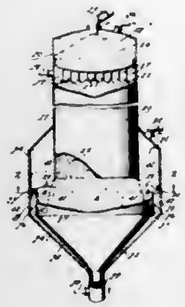
### 2,647,043
### CRYSTAL GROWING APPARATUS
Oscar Imber, Silver Spring, Md.
Application September 23, 1948, Serial No. 50,725
1 Claim. (Cl. 23—273)
(Granted under Title 35, U. S. Code (1952), sec. 266)



In a crystal growing apparatus, a closed crystallizing evaporation chamber for holding a solution of the salt to be crystallized, said chamber having upright side walls defining the periphery of the evaporating surface of a solution partially filling the chamber, a plurality of cooled surface condenser elements disposed within the chamber in a vapor space above said solution surface in a circular horizontally spaced array paralleling the periphery of the surface of the solution as defined by the walls of the chamber, a shallow open top parallel-sided trough positioned within the chamber below the condenser elements shaped to extend along beneath the condenser elements paralleling the periphery of the surface of the solution as defined by the walls of the chamber, said trough being relatively shallow and of low capacity to permit continuous overflow onto the surface of the solution near the said periphery as defined by the side walls of the chamber whereby pure solvent condensed within the chamber is continuously returned to the solution at points near the periphery of the evaporating surface to inhibit the production and creepage of salt crystals up the sides of the chamber, and valve controlled conduit means connected with the interior of the trough for drawing condensate out of the system.

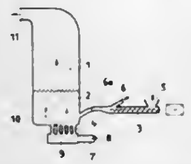
### 2,647,044
### SOLIDS BAFFLE FOR CATALYST APPARATUS
Reuben T. Savage, Ridley Park, and Jack C. Dart, Moylan, Pa., assignors to Houdry Process Corporation, Philadelphia, Pa., a corporation of Delaware
Application March 26, 1949, Serial No. 83,669
1 Claim. (Cl. 23—288)

Apparatus for contacting gas with a gravitating compact mass of particle-form solids and thereafter disengaging said gas from said solids comprising: an upright elongated vessel having an upper portion forming a contact chamber and a lower portion of substantially greater flow area forming a disengaging chamber, said upper portion extending centrally downward into said lower portion; means for introducing said gas and said solids into the upper region of said contact chamber; means for discharging disengaged gas from said disengaging chamber at a level above the lower end of said contact chamber; a narrow conduit for discharging said solids centrally from the bottom of said disengaging chamber, the vertical distance between the upper end of said conduit and the lower end of said contact chamber, and the relative flow areas of said conduit and said disengaging chamber, being such as to cause a hindered flow of solids in the peripheral region of the portion of said gravitating compact mass expanding outwardly below the lower end of said contact chamber; and a funnel member disposed concentrically within said disengaging chamber with its upper perimeter located within said re-



gion of hindered solids flow and below the exposed surface of the outwardly expanding portion of said compact mass, and its lower end extending centrally within said conduit, thereby forming separate central and peripheral confined streams of solids descending through said disengaging chamber, said funnel member having its upper and lower perimeters spaced, respectively, from the walls of said disengaging chamber and of said conduit so as to provide a ratio of peripheral stream flow area to central stream flow area at the bottom of said funnel member at least as great as the corresponding ratio at the top of said funnel member.

### 2,647,045
### GASIFICATION OF COMBUSTIBLE MATERIALS
Roman Rummel, Dusseldorf-Benrath, Germany
Application May 12, 1949, Serial No. 92,832
In Germany December 6, 1948
11 Claims. (Cl. 48—206)



1. In the gasification of combustible material of the coal type, the improvement comprising substantially continuously introducing such a material in substantially particled form into a molten slag below the surface thereof, substantially continuously contacting said material in said slag with a combustion supporting gas and with an endothermic gasification reactant for said material, and recovering a combustible gas mixture therefrom.



### 2,647,046
### JET COMBUSTION FUEL
Jack M. Godsey, Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application May 24, 1949, Serial No. 95,151
9 Claims. (Cl. 52—.5)

1. A liquid fuel capable of being utilized in jet-combustion mechanisms, which comprises a hydrocarbon distillate having an initial boiling point of about 40° C. and a final boiling point of about 315° C. and boiling substantially continuously between said points, and between about 0.1 per cent by weight and about 2.0 per cent by weight of thiophene tar obtained by the process which includes separately preheating sulfur and a $C_4$-hydrocarbon selected from the group consisting of normal butane, normal butenes and butadienes, to temperature such that combining said sulfur and said $C_4$-hydrocarbon will give a reaction mixture having a temperature falling within the range varying between about 450° C. and about 760° C.; mixing the preheated sulfur and the preheated $C_4$-hydrocarbon; reacting said preheated sulfur with said preheated $C_4$-hydrocarbon at a reaction temperature falling within the range varying between about 450° C. and about 760° C. for a period of time selected to minimize the yields of hydrocarbons containing less than four carbon atoms per molecule and carbon disulfide at said reaction temperature, to yield a mixture containing thiophene tar; immediately reducing the temperature of the mixture containing said thiophene tar to a temperature of less than about 450° C.; and separating the thiophene tar from said mixture.

### 2,647,047
### EXPLOSIVE COMPOSITION
Warren B. Richardson, Reno, Nev.
Application March 6, 1950, Serial No. 148,009
14 Claims. (Cl. 52—6)



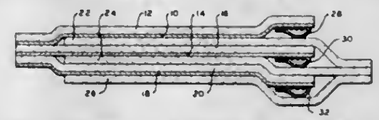
4. An explosive composition consisting essentially of a loose mass of granules each having a center consisting of a coarse sulfur particle, said center being coated with an intermediate binding layer of a nitro-compound of the aromatic series and an outer layer of ammonium nitrate and a sensitizer therefor, the quantity of sulfur constituting at least one-half of the total composition.

### 2,647,048
### COMPOSITION FOR STIFFENING PAPER MATCH SPLINTS
Herbert Ellern, Ferguson, Mo., assignor to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware
No Drawing. Original application March 7, 1947, Serial No. 733,190. Divided and this application October 28, 1949, Serial No. 124,257
1 Claim. (Cl. 52—26)

A stiffening impregnant for paper-board having approximately the following composition:

| | Parts by weight |
|---|---|
| White refined paraffin | 61 |
| Limed rosin | 18 |
| Gilsonite | 18 |
| A substituted polyamid of stearic acid | 3 |

### 2,647,049
### PHOTOGRAPHIC ELEMENT FOR COLOR PHOTOGRAPHY AND A PROCESS OF PRODUCING MULTICOLOR PICTURES
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application February 25, 1947, Serial No. 730,661
7 Claims. (Cl. 95—2)



1. The process of forming a positive multicolor image which comprises developing a latent negative image, representative of a color component image, in each of a plurality of photosensitive silver halide emulsion layers with a color-forming developer substantially uniformly distributed, substantially to the exclusion of a silver halide solvent fixer, throughout each said photosensitive layer to provide an imagewise distribution of unreacted developer in each said photosensitive layer, transferring, by imbibition and substantially to the exclusion of silver salts, at least a part of said image-wise distribution of unreacted developer in each said photosensitive layer to print-receiving means adapted to have dye component images carried thereby in superposed and registered relation and comprising at least one image-receiving layer while maintaining each said photosensitive layer, as said imagewise distribution is undergoing transfer, in predeterminedly registered and superposed relation to an image-receiving layer and in such close proximity thereto as to transfer to said image-receiving layer for reception thereby a depthwise diffusion of liquid without appreciably disturbing the imagewise distribution of developer contained in said transferred liquid, and reacting developer transferred from each said photosensitive layer to an image-receiving layer to form a dye in the image-receiving layer which receives said transferred liquid whereby to provide a plurality of registered color component images which together form said positive multicolor image, each said dye image being formed in an image-receiving layer which is substantially free of transferred silver so that each said dye image is readily visible.

5. A photographic product which comprises a plurality of water-permeable layers and including at least two photosensitive silver halide layers, print-receiving means adapted to carry a plurality of dye component images in superposed and registered relation to each other and comprising at least one image-receiving layer for receiving by transfer a positive image of a latent image formed in each photosensitive layer, means interconnecting said photosensitive layers for movement relative to each other and to an image-receiving layer whereby each photosensitive layer is positionable in superposed relation and in relatively close proximity to said image-receiving layer, a plurality of rupturable containers, one container for each photosensitive layer and each container holding at least a liquid solvent for a photographic silver halide developer, each container being individually carried by a layer of said product and being positioned between its respective photosensitive layer and said image-receiving layer when said image-receiving layer and said last-mentioned photosensitive layer are superposed with said container being located between said superposed layers at a position where the container is capable of be-

ing fractured and of releasing its liquid content between said superposed photosensive layer and image-receiving layer to at least partially permeate the superposed photosensitive layer and image-receiving layer, a color-forming developer soluble in said liquid positioned in said product in individual association with each photosensitive layer and rendered effective to develop latent image in each said photosensitive layer upon the release of liquid between a photosensitive layer and an image-receiving layer in said superposed relation, the result of development of each photosensitive layer being the formation therein of a differential disposition of unreacted developer which is adapted to be transferred to the image-receiving layer in superposed relation therewith and to effect the formation in said image-receiving layer of a reverse dye image of the subject matter of the latent image in said superposed photosensitive layer, said product also having material which is reactable with said developer for effecting dye formation and which is contained in said product in association with each individual photosensitive layer, at least in a position for contact with liquid which contains unreacted developer in solution and which is transferred to an image-receiving layer in superposed relation to a photosensitive layer.

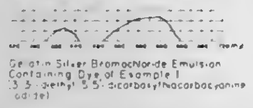
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**2,647,050**

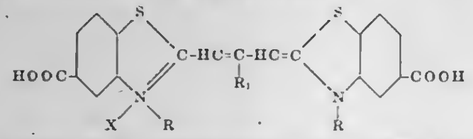
## PHOTOGRAPHIC EMULSIONS CONTAINING SENSITIZING DYES

**John Charles Firestine, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**Application November 19, 1949, Serial No. 128,495**
**4 Claims. (Cl. 95—7)**




1. A colloid-silver halide emulsion containing a carbocyanine dye of the formula:



wherein R is a hydrocarbon radical taken from the group consisting of alkyl radicals and benzyl radicals, $R_1$ is a member taken from the class consisting of hydrogen and a hydrocarbon radical and X is a negative radical of an acid.

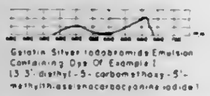
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**2,647,051**

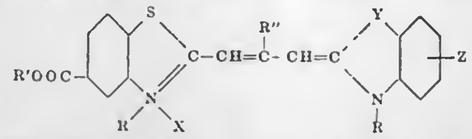
## PHOTOGRAPHIC EMULSIONS CONTAINING SENSITIZING DYES

**William Howells Vinton, Parlin, and John Charles Firestine, South River, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**Application February 17, 1951, Serial No. 211,583**
**5 Claims. (Cl. 95—7)**




1. A water-permeable colloid silver halide emulsion layer containing a compound having the general formula:



where R is an alkyl radical, R′ is an alkyl radical of 1 to 4 carbon atoms, R″ is a member taken from the group consisting of hydrogen and alkyl radicals of 1 to 3 carbon atoms, X is the negative radical of an acid, Y is a chalcogen taken from the group consisting of S and Se and Z is a member taken from the group consisting of hydrogen, alkyl of 1 to 3 carbon atoms, aryl of 6 to 10 carbon atoms, chlorine, bromine and alkoxy of 1 to 3 carbon atoms.

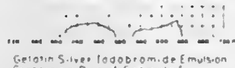
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**2,647,052**

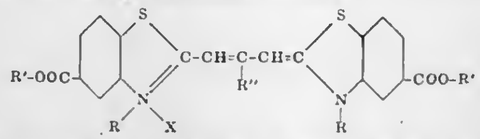
## PHOTOGRAPHIC SILVER HALIDE EMULSION CONTAINING SYMMETRICAL CARBOCYANINE DYES

**Elmore Louis Martin, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**Application February 20, 1951, Serial No. 211,967**
**5 Claims. (Cl. 95—7)**




1. A colloid silver halide emulsion containing a dye having the general formula:



wherein R is a hydrocarbon radical taken from the group consisting of alkyl radicals of 1 to 3 carbon atoms and a benzyl radical; R′ is an alkyl radical of 1 to 3 carbon atoms, R″ is a member taken from the group consisting of hydrogen and alkyl radicals of 1 to 3 carbon atoms and X is the negative radical of an acid.

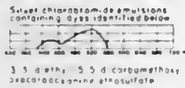
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**2,647,053**

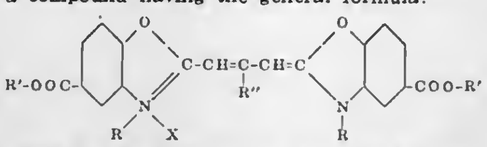
## PHOTOGRAPHIC EMULSIONS CONTAINING SYMMETRICAL CARBOCYANINE DYES

**William Howells Vinton, Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**Application February 21, 1951, Serial No. 212,209**
**5 Claims. (Cl. 95—7)**




1. A colloid silver halide emulsion containing a compound having the general formula:



where R is a hydrocarbon radical taken from



the group consisting of alkyl radicals of 1 to 3 carbon atoms and a benzyl radical; R′ is an alkyl radical of 1 to 4 carbon atoms, R″ is a member taken from the group consisting of hydrogen and an alkyl radical of 1 to 3 carbon atoms and X is the negative radical of an acid.

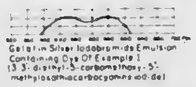
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**2,647,054**

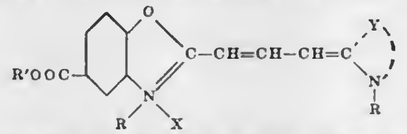
## PHOTOGRAPHIC EMULSIONS CONTAINING SENSITIZING DYES

**William Howells Vinton, Parlin, and John Charles Firestine, South River, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**Application February 21, 1951, Serial No. 212,210**
**5 Claims. (Cl. 95—7)**




1. A light-sensitive silver halide emulsion containing a compound having the general formula:



where R is an alkyl radical, R′ is an alkyl radical of 1 to 4 carbon atoms, X is the negative radical of an acid and Y constitutes the atoms necessary to complete a heterocyclic nitrogen radical taken from the group consisting of thiazoline, benzoxazole, naphthoxazole, benzothiazole, naphthothiazole, benzoselenazole, naphthoselenazole and dimethylindolenine and such radicals wherein the benzene rings are substituted by at least one alkyl group of 1 to 3 carbon atoms.

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**2,647,055**

## PHOTOGRAPHIC PRODUCT AND PROCESS FOR FORMING A WHITE IMAGE VIEWABLE AGAINST A DARK BACKGROUND

**Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware**

**Application November 6, 1946, Serial No. 708,007**
**15 Claims. (Cl. 95—8)**




1. A photographic product comprising a plurality of layers including at least a photosensitive silver halide layer, a base layer for receiving a reverse image of a latent image in said photosensitive layer, and a container holding at least an alkaline liquid solvent composition for a photographic developer, said photosensitive layer, said base layer and said container being so arranged as to permit at least a portion of said base layer and said photosensitive layer to be superposed with said container positioned for release of its liquid content between two layers of said product for permeation of said photosensitive and said base layers upon rupture of the container, said product having positioned therein a silver halide developer, said developer being soluble in said composition and being rendered effective upon release of said composition to develop a latent negative image in said photosensitive layer of a subject to which said photosensitive layer has been exposed and, as a result of said development, causing an imagewise variation in the alkalinity of said liquid composition whereby the alkalinity of the composition adjacent areas of developed silver is lowered, said product, in addition, including in said base layer for said reverse image a substantially uniform distribution of a material comprising at least one metallic salt which is soluble in said liquid composition and which has a metallic ion reactable with the hydroxyl ion of said liquid composition to form a whitish precipitate when the alkalinity of said liquid composition has been lowered as a result of development whereby to provide a reverse image of said developed latent image in terms of the highlights of said subject, said developer being in a quantity sufficient to develop said latent image and said liquid composition being in a quantity sufficient to dissolve all of said developer and to react, in places where silver development has occurred, with said metallic salt to provide said reverse image, and said product including an opaque, black, water-permeable layer carried by said photosensitive layer on the side thereof adapted to be positioned in facing relation to said base layer when the photosensitive layer and the base layer are superposed, and wherein said base layer is transparent and said black layer provides nonhalation means and, in addition thereto, a black background against which said reverse image formed of white precipitate is readily viewable.

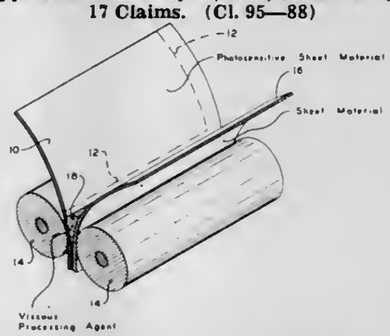
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**2,647,056**

## ONE STEP PHOTOGRAPHIC TRANSFER PROCESS

**Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware**

**Application February 12, 1948, Serial No. 7,795**
**17 Claims. (Cl. 95—88)**




1. The method of forming an image in a predetermined area of a photosensitive layer of a photographic, photosensitive sheet material, said photosensitive layer having as its photosensitive substance at least one compound from the class consisting of the photosensitive silver halides and diazonium compounds, which method comprises locating a viscous liquid processing agent adjacent one edge of said area at least in sufficient quantity to provide all the liquid required for a transformation of an image formed in said photosensitive layer by photoexposure, said processing agent being located on one side only of said photo-sensitive sheet material and containing a solid film-forming high molecular weight polymer in sufficient quantity to impart to said processing agent a viscosity in excess of 1000 centipoises at 24° C., forming a layer of said processing agent between said photosensitive sheet material and another sheet material by applying pressure to the outer surfaces of said sheet ma-

terials, the portions of said outer surfaces subjected to said pressure remaining dry during said pressure application, liquid from said processing agent being absorbed by said photosensitive sheet material and, during absorption, distributing, throughout said area of said photosensitive layer, a photographic reagent capable of carrying out the desired image transformation, said photographic reagent being different from the solvent of said processing agent and being provided by one of (*a*) said sheet materials and (*b*) said processing agent, the absorption of said liquid from said layer of processing agent increasing the concentration of said polymer in said liquid to produce a coating containing said polymer between said sheet materials which maintains the latter in spaced laminated relationship during the processing.

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**2,647,057**

## PROTECTING COLOR PICTURES EXPOSED TO HIGH HUMIDITIES AGAINST FADING AND STAINING

**Eugene Seary, Rochester, and Anthony Salerno, Corona, N. Y., assignors to Pavelle Color Incorporated, New York, N. Y., a corporation of Delaware**

**No Drawing. Application October 31, 1950, Serial No. 193,304**

**2 Claims. (Cl. 95—88)**

1. In a process for producing color photographic images in silver-halide emulsions by exposing the emulsions, color-forming developing the same, bleaching, fixing, rinsing and drying, the improvement which comprises prolonging the life of the image especially when stored under relatively high humidity and temperature conditions by modifying said rinsing step to include rinsing of the said emulsion with an aqueous solution containing from 1% to 7% of an alkali formaldehyde-bisulphite and containing borax from 0.5% up to the amount required to saturate said solution.

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**2,647,058**

## BEVERAGE

**Abraham Schapiro, Kentfield, Calif.**

**No Drawing. Application June 7, 1951, Serial No. 230,420**

**14 Claims. (Cl. 99—105)**

1. A stable liquid concentrate derived from edible products of the class consisting of grapes and raisins of the *Vitis vinifera* type, suitable for using in making a beverage, said concentrate being a concentrate of a mixture of free run juice obtained from said starting material and of the hot water extract derived from the pomace of the starting material, and containing the soluble sugars and minerals and other nutrient values present in the starting material and flavonoid substances derived from the starting material in amounts capable of enhancing the biological efficacy of vitamin C, the said concentrate containing about 98–99% of the total extractable substances present in the starting material.

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**2,647,059**

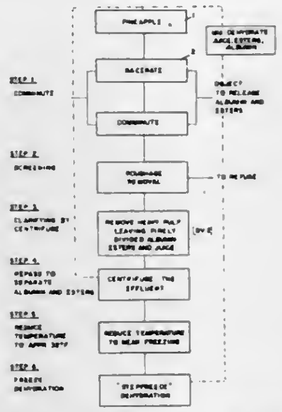
## PROCESS FOR DEHYDRATION OF PINEAPPLE JUICE

**Elwood P. Wenzelberger, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Delaware**

**Application September 15, 1951, Serial No. 246,810**

**4 Claims. (Cl. 99—206)**

1. In a method of dehydrating pineapple juice the improvement which consists in maintaining the temperature continuously and during all treatment steps between approximately 40° to 0° F., and comprising the step (*a*) of disintegrating the pineapple solids in the presence of pineapple juice; the step (*b*) of removing the pulp roughage; the step (c) of separating the heavy



pulp, left after removing the roughage, from the albumin, esters and juice; the step (d) of centrifuging the esters and albumin with any finely divided pulp from the juice; and the step (e) of dehydrating by freezing through successively lower temperatures to remove the water from the juice in the form of ice crystals.

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**2,647,060**

## NONSMUDGING DUPLICATING INK

**William N. B. Armstrong and Hyman S. Kredentser, Toronto, Ontario, Canada, assignors to Ontario Research Foundation, Toronto, Ontario, Canada**

**No Drawing. Application February 13, 1950, Serial No. 144,036**

**3 Claims. (Cl. 106—26)**

3. A non-smudging duplicating ink for cold application comprising the following ingredients in approximately the following proportions by weight: 126 parts of a wax-oil-colour blend, 30 parts clay filler, 26 parts of a compatible friable resin resistant to oxidation and polymerization, 26 parts of a blend of primary amides of long-chain fatty acids, 1 to 3 parts ethyl cellulose and 172 parts solvent.

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**2,647,061**

## ARTICLES OF CALCIUM-CARBON BORIDE

**Edwin C. Lowe, Niagara Falls, Ontario, Canada, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**

**No Drawing. Application June 21, 1951, Serial No. 232,865**

**2 Claims. (Cl. 106—43)**

1. An article of manufacture essentially consisting of a mixture of calcium boride and carbon boride, containing $CaB_6$ and $CB_4$ with from 10% to 40% by volume $CaB_6$ on the total $CaB_6+CB_4$, with from 60% to 90% by volume $CB_4$ on the total $CaB_6+CB_4$, having not more than 10% free boron by volume having no graphite and not more than 2% by weight of carbon in solid solution in the borides, said article having been molded at a temperature of at least 2000° C. and at a pressure of at least 1000 pounds per square inch and having a modulus of rupture in cross bending of at least 43,000 pounds per square inch.



**2,647,062**

## METHOD OF MAKING REFRACTORY MASSES AND BATCH

**Frank E. Lathe, Ottawa, Ontario, Canada, assignor to Canadian Refractories Limited, Montreal, Quebec, Canada, a corporation of Canada**

**No Drawing. Application April 7, 1950, Serial No. 154,723**

**24 Claims. (Cl. 106—58)**

1. A method of consolidating granular particles of basic refractory material containing a reactive alkaline earth which is present in the said refractory granular material in proportion of at least 6% by weight of the particles in excess of that required to form under equilibrium conditions the orthosilicate of the said alkaline earth with all the silica present, which comprises forming an intimate mixture containing said granular particles of refractory material and, in reactive form, starting material for a non-refractory silicate of said reactive alkaline earth, said intimate mixture containing no more silica than will combine at ultimate equilibrium with the reactive alkaline earth as the orthosilicate, and the total surface area of all non-volatile constituents in said mixture being not more than 2.4 times the total surface area of the free and combined silica therein, heating the mixture to form and melt the non-refractory silicate in situ and thereby coat the granular particles of refractory material, and further heating the mass to convert the non-refractory silicate by reaction with excess reactive alkaline earth into a refractory silicate and thereby bond the granular particles into a consolidated and highly refractory mass.

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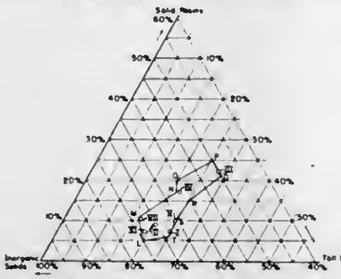
**2,647,063**

## PERMANENTLY PLASTIC INSULATING COMPOSITION

**Hilary Bryan Willis and Paul E. Dupler, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application April 15, 1949, Serial No. 87,672**

**4 Claims. (Cl. 106—123)**



1. A permanently plastic putty-like insulating composition composed essentially of an intimate mechanical mixture of (*a*) 100 parts by weight of refined tall oil, (*b*) from 25 to 80 parts by weight of the non-volatile, gasoline insoluble residue of extracted pine wood pitch, the residue of the extracted pine wood pitch being dissolved in the tall oil, and (c) a mixture of inorganic solids composed of (1) from 30 to 80 parts by weight of at least one alkaline inorganic compound of a fineness of at least 100 mesh selected from the group consisting of calcium carbonate, barium carbonate, zinc carbonate, and magnesium carbonate, (2) from 75 to 100 parts by weight of at least one inorganic absorbent of a fineness of at least 100 mesh selected from the group consisting of talc, silica aerogel and infusorial earth, and (3) from 100 to 300 parts by weight of a dense, non-porous silica of a fineness of at least 150 mesh, the components (*a*), (*b*) and (c) being combined only in proportions coming within the area LMNOPQRST indicated on the ternary diagram in the drawing.

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**2,647,064**

## METHOD OF IMPROVING THE COLD-WATER SOLUBILITY OF A FIBROUS CELLULOSE ETHER

**Arthur W. Anderson and Bernhard V. Moeller, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application November 25, 1949, Serial No. 129,512**

**6 Claims. (Cl. 106—179)**

1. A method of treating a fibrous cold-water-soluble cellulose ether, which normally gels in hot water, to improve its rate of solution in cold water which comprises completely wetting the fibrous cellulose ether, without dissolving it, at a temperature above the gel formation temperature of said ether, with an aqueous solution of from 0.01 to 1 per cent by weight of a surface active agent selected from the group consisting of polyethylene glycol mono-ether of sorbitan monolaurate and polyoxyethylene mono-lauryl ether, and drying the wet ether, containing an amount of the treating solution which holds from 0.01 to 1 per cent of the surface active agent, based on the weight of cellulose ether, at a temperature above the gel formation temperature of said ether.

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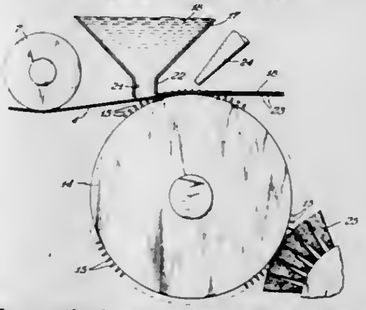
**2,647,065**

## APPARATUS FOR AND METHOD OF MAKING ADHESIVE TAPE

**William M. Scholl, Chicago, Ill.**

**Application May 18, 1950, Serial No. 162,667**

**8 Claims. (Cl. 117—4)**



1. The method of making adhesive tape, including the steps of moving a tape along a predetermined path, applying an adhesive mass to one face of said tape, perforating the tape and applied mass to provide numerous apertures therein, and contemporaneously forcing a cooling fluid over the mass.

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**2,647,066**

## PHOSPHOR SUSPENSION AND METHOD OF APPLYING

**Horace H. Homer, Arlington, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**

**No Drawing. Application March 1, 1950, Serial No. 147,156**

**8 Claims. (Cl. 117—33.5)**

2. The process of coating an object with a phosphor deleteriously affected by oxidation,

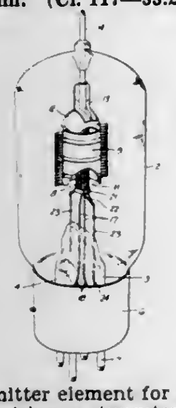
which method comprises the steps of: mixing a suspension of said phosphor, a cellulosic binder which is to be removed by oxidation, an organic solvent for said binder, and a few percent by weight of a compound selected from the group consisting of ammonium oxalate and oxalic acid; applying the resultant suspension to the object; and baking the object in air to eliminate said binder by oxidation.

2,647,067

**ELECTRON EMITTER FOR ELECTRON TUBES**

**Paul D. Williams, Palo Alto, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California**

**Application September 10, 1949, Serial No. 114,958**
**1 Claim. (Cl. 117—33.28)**



An electron emitter element for use in an electron tube comprising a tungsten core having sintered thereon a coating consisting essentially of an intimate mixture of metallic tungsten and thorium oxide, said coating mixture being formed by the reduction of thorium tungstate in a hydrogen atmosphere at a temperature of about 1000° C.

2,647,068

**PROCESS OF TREATING VITREOUS MATERIALS**

**Imre Patai, Washington, D. C.; H. Russell Bishop, administrator of the estate of said Imre Patai, deceased**

**No Drawing. Application March 16, 1948, Serial No. 15,283**
**5 Claims. (Cl. 117—35)**

1. The process of producing a mirror glass, comprising selecting a glass having a sodium content higher than ten percent, bringing the glass into physical contact with a substance containing silver nitrate, heating the glass to a temperature not exceeding 300° C. to cause a diffusion of the silver nitrate into the glass, removing the excess substance from the glass, and heating the glass in a reducing atmosphere of about 600° C. to produce a metallic silver transparent stratum.

2,647,069

**MANUFACTURE OF SILICATE-COATED PAPERS**

**William Stericker, Drexel Hill, Pa., assignor to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania**

**No Drawing. Application January 23, 1947, Serial No. 723,885**
**2 Claims. (Cl. 117—152)**

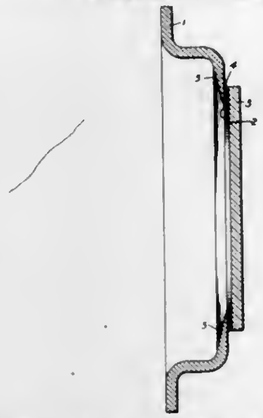
1. In the manufacture of greaseproof paper from low-cost paper stocks containing lignin and tannin components subject to staining by alkali, the process which comprises applying to a web of such a paper stock while it is in the process of being made on a paper making machine, from a box mounted on said paper making machine and at a point where said web contains no more than about 20% of water by weight, a sodium silicate solution, having a viscosity within the range of from about 1 to 50 centipoises, sufficiently low to cause the solution to penetrate the web, to increase its stiffness, to decrease its porosity and to render it oil and grease resistant; said silicate solution having a gravity between about 10° and 55° Bé., containing a weight ratio of $Na_2O$ to $SiO_2$ within the range of from about 1:1.6 to 1:4 and containing from about 0.25 to 5% of hydrogen peroxide and as a stabilizing agent a mixture of a water soluble pyrophosphate and a water soluble magnesium salt, whereby the brightness of the coated surface of the web is at least as high as that of a web made from the same paper stock without application of said silicate solution; the silicate solution being applied so that no excess is left on the surface and with a spread ranging from about 2 to 30 pounds per 1000 square feet of web surface; and drying the so-applied coating without removing the coating or washing out the residues of the bleaching reaction.

2,647,070

**METHOD OF MAKING METAL-TO-CERAMIC SEALS**

**Charles V. Litton, Redwood City, Calif.**

**Application November 17, 1950, Serial No. 196,140**
**2 Claims. (Cl. 154—43)**



1. The method of effecting a seal between a metal part and a ceramic part which comprises shaping the surfaces of said metal and ceramic in the areas of contact to fit within a tolerance of a ground fit, applying a coating of a fluxing material to a thickness in the order of .001 to .002 inch between the areas of contact of said parts, and heating said area of contact to a temperature sufficient to flux said ceramic and said metal with said material.

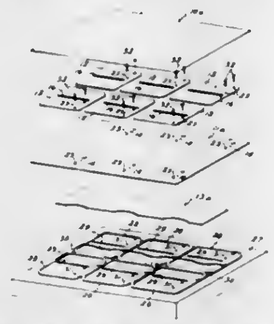
2,647,071

**METHOD OF MAKING LAMINATED CASE CONSTRUCTION**

**Frank Stanley Schade, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a corporation of Massachusetts**

**Application May 2, 1951, Serial No. 224,140**
**2 Claims. (Cl. 154—83)**

1. The method of making a laminated case construction of the single fold type of the class described for wallets which consists in forming a set of spaced holes in a limp sheet of thermoplastic material and in a position on said sheet laterally of a central hinge line area and cutting a slit between said spaced holes; forming a central slotted opening in a sheet of stiffening material defining a hinge line area for the case and laterally of said slot forming a correspondingly spaced set of holes for registration with said spaced holes of the thermoplastic sheet, said stiffener sheet being of lesser overall dimensions than said thermoplastic sheet for providing a peripheral marginal edge portion of the latter around said stiffening sheet; superimposing said two sheets with the thermoplastic sheet underneath on a heat sealing tool having spaced holes corresponding to said spaced holes of said sheets; threading aligning pins having heads of a slightly



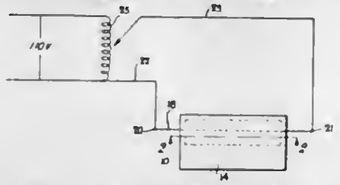
larger size than said holes through the holes of said sheets and inserting the stems of said pins into the holes of said tool for maintaining the relative positioning of said sheets on said sealing tool; mounting a second sheet of limp thermoplastic material of greater overall dimensions than said stiffener sheet over said superimposed sheets; integrally welding said thermoplastic sheets in the contacting areas of the peripheral marginal edge portions around the stiffening sheet and in the area of said central slot to form an edge band and a central hinge band; removing the assembled casing from the tool and withdrawing the headed aligning pins through the registered openings of said stiffener and limp sheet by flexing the material of said stiffener sheet immediately adjacent said openings.

2,647,072

**METHOD OF JOINING PLASTIC ELEMENTS**

**Walter K. Smith, Pottstown, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**

**Application June 16, 1947, Serial No. 754,958**
**1 Claim. (Cl. 154—90)**



The method of bonding an element of thermoplastic material to a second thermoplastic element, one of said elements having the form of a relatively thin sheet of material, which comprises placing a metallic wire between said elements, subjecting said elements to pressure to force them together, and electrically heating the wire to cause the elements to fuse and to bond together adjacent the wire embedding the wire in the elements, said sheet being molded about the wire to assume the shape of the wire forming an ornamental rib on the external surface of the sheet.



2,647,073

**AMMONIATED DENTIFRICE CONTAINING ANHYDROUS DICALCIUM PHOSPHATE**

**Arnold J. Singer, Newark, N. J., assignor to Amm-I-Dent, Inc., Jersey City, N. J., a corporation of New Jersey**

**No Drawing. Application April 13, 1951, Serial No. 220,990**
**4 Claims. (Cl. 167—93)**

4. A dentifrice paste comprising from 3% to 50% by weight of urea, from 1% to 7% by weight of diammonium hydrogen phosphate, between 40% and 50% of polishing agents including tricalcium phosphate, and from 1% to 25% anhydrous dicalcium phosphate, a humectant and sufficient water to form a paste.

2,647,074

**PRODUCTION OF RIBOFLAVIN BY MICROBIOLOGICAL FERMENTATION**

**Samuel C. Beesch and Byron W. Fraser, Philadelphia, Pa., assignors to Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania**

**No Drawing. Application December 16, 1949, Serial No. 133,495**
**3 Claims. (Cl. 195—35)**

1. A process for the production of riboflavin which comprises forming an aqueous mash consisting essentially of whole peanut flour and a carbohydrate, inoculating the mash with an active culture of *Eremothecium ashbyii*, and fermenting the mash with vigorous agitation.

2,647,075

**CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS WITH A CLAY TREATED CATALYST**

**John Norman Haresnape and Frederick William Bertram Porter, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation**

**No Drawing. Application January 8, 1948, Serial No. 1,273. In Great Britain January 10, 1947**
**4 Claims. (Cl. 196—52)**

1. The process which comprises passing a petroleum feedstock boiling in the gas oil range or higher in admixture with hydrogen to a desulphurization zone maintained under elevated temperature and pressure, wherein the feedstock is treated in the presence of a sulphur-resistant hydrogenation catalyst to convert the sulphur compounds present in the feedstock into hydrogen sulphide, separating the hydrogen sulphide from the treated feedstock, passing the desulphurized feedstock to a catalytic cracking zone, wherein the desulphurized feedstock is cracked in the presence of a catalyst consisting essentially of a montmorillonite clay which has been heated to a temperature between about 500° C. and 700° C. to remove substantially completely the combined hydroxyl groups without causing any physical disruption of the clay, and from which clay, as it is employed in the cracking step, the combined hydroxyl groups are substantially completely absent, said temperature being in inverse relationship to the iron oxide content present in said clay such that when the iron oxide content is less than 1.5%, the temperature will be about 700° C., and when the iron oxide

content is more than 7%, the temperature will be about 500° C., separating from the products from said catalytic cracking zone a gas mixture rich in hydrogen, and passing said hydrogen-rich gas mixture to said desulphurization zone to constitute the whole of the hydrogen fed to said desulphurization zone.

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2,647,076

## CATALYTIC CRACKING OF PETROLEUM HYDROCARBONS WITH A CLAY TREATED CATALYST

**John Norman Haresnape and Frederick William Bertram Porter, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation**

**No Drawing. Application January 8, 1948, Serial No. 1,274. In Great Britain January 10, 1947**
**6 Claims. (Cl. 196—52)**

1. A catalytic cracking process which comprises cracking a sulphur-containing petroleum feedstock in the presence of a catalyst consisting essentially of a montmorillonite clay which has been heated to a temperature between about 500° C. and 700° C. to remove substantially completely the combined hydroxyl groups without causing any physical disruption of the clay, and from which clay, as it is employed in the cracking step, the combined hydroxyl groups are substantially completely absent, said temperature being in inverse relationship to the iron oxide content present in said clay such that when the iron oxide content is less than 1.5% the temperature will be about 700° C., and when the iron oxide content is more than 7%, the temperature will be about 500° C., separating from the cracked products a liquid fraction and a hydrogen-containing gaseous fraction, passing said liquid fraction and said hydrogen-containing gaseous fraction over a sulphur-resistant hydrogenation catalyst under conditions such that the saturation of olefines and the hydrogenation of sulphur compounds contained in said liquid fraction are effected, said hydrogen-containing gaseous fraction constituting the whole of the hydrogen supplied to the saturation-hydrogenation operation, and separating the hydrogenated products into a gaseous fraction and a desulphurized liquid fraction.

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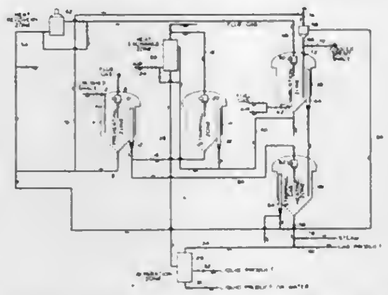
2,647,077

## PROCESS FOR DESTRUCTIVE DISTILLATION

**Carl E. Alleman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application June 13, 1949, Serial No. 98,807**
**10 Claims. (Cl. 202—16)**

1. A continuous process for separating and recovering shale oil from oil shale which comprises: introducing oil shale having a particle size of 40 mesh and smaller and containing from 15 to 90 gallons of shale oil per ton into an oil shale preheating zone and therein forming a first fluidized oil shale bed and heating said oil shale to a temperature no greater than 450° F. by directly contacting said oil shale with flue gas withdrawn from a second separation zone as hereinafter set forth and passed into the lower portion of said oil shale preheating zone; withdrawing preheated oil shale from the upper portion of said first fluidized oil shale bed and passing same in direct concurrent contact with heated stripping gas produced as hereinafter set forth into the lower portion of a shale oil stripping zone and therein forming a second fluidized oil shale bed and stripping shale oil from said oil shale at a temperature of from 825 to 1050° F.; withdrawing a resulting mixture of shale oil vapors and stripping gas from the upper portion of said stripping zone and passing same into a first indirect heat exchange zone wherein said mixture is indirectly passed in heat exchange relation with air passed into said first heat exchange zone thereby heating said air and removing heat from said mixture; withdrawing said mixture from said heat exchange zone and separating same in a first separation zone into a liquid stream of shale oil and a vaporous product gas stream, each of said streams being a product of the process; withdrawing stripped oil shale from the upper portion of said second fluidized oil shale bed and passing same in concurrent direct contact with heated air withdrawn from said first indirect heat exchange zone into a combustion zone and therein forming a fluidized stripped oil shale bed and burning residual carbon from said stripped oil shale; withdrawing resulting heated spent oil shale from the upper portion of said fluidized stripped oil shale bed and passing same into a stripping gas-heating zone and therein forming a fluidized spent oil shale bed and heating said stripping gas by directly contacting said heated spent oil shale with said stripping gas which is passed into



the lower portion of said stripping gas-heating zone; withdrawing resulting heated stripping gas from the upper portion of said stripping gas-heating zone and using same to pass preheated oil shale from said oil shale preheating zone into said stripping zone as hereinbefore set forth; withdrawing resulting spent shale from the upper portion of said spent oil shale fluidized bed and passing same in concurrent direct contact with flue gas from a second indirect heat exchange zone as hereinafter set forth into a second separation zone and therein separating said flue gas from said resulting spent shale; withdrawing resulting spent shale from said second separation zone and passing a first portion of same into said combustion zone and withdrawing a second portion of same as cooled spent shale product; withdrawing a flue gas resulting from burning residual carbon from said stripped oil shale from the upper portion of said combustion zone and passing same into a second indirect heat exchange zone and therein removing heat from said flue gas; withdrawing resulting flue gas from said second indirect heat exchange zone and using at least part of same to pass spent shale from said stripping gas-heating zone into said second separation zone as hereinbefore set forth; withdrawing resulting flue gas from said second separation zone and passing same into said oil shale preheating zone as hereinbefore set forth; and withdrawing resulting flue gas from the upper portion of said oil shale preheating zone.

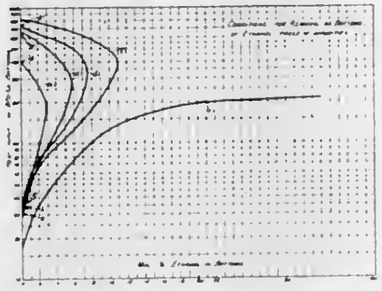


2,647,078

## ALCOHOL DISTILLATION PROCESS

**John M. Chambers, Winchester, Mass., assignor, by mesne assignments, to Stone & Webster Engineering Corporation, Boston, Mass., a corporation of Massachusetts**

**Application December 17, 1949, Serial No. 133,598**
**6 Claims. (Cl. 202—39.5)**



1. The process of purifying a fermentation alcohol stock to prepare improved high-purity spirit ethanol which comprises fractionally distilling said stock in the presence of a substantial concentration of an aqueous dilution agent in a distillation column, regulating conditions as hereinafter described in the sections of the column above and below the feed such that the column constitutes a dilution-extraction section and a stripping section respectively, removing the impurities as overhead from the column and removing a dilute aqueous ethanol fraction containing at least 1 mol per cent ethanol as bottoms from the column, maintaining conditions in the base and lower section of said distillation column such that the heat input in B. t. u. per pound of the bottoms product withdrawn is within the area defined by the curve A''bB'' and the zero ethanol bottoms concentration axis on the diagram represented by Figure 1 and maintaining in the upper section of said distillation column a dilution ratio and a reflux ratio on the top plate thereof within the area defined by the outer envelope curve C'T'D' and the zero dilution ratio axis on the diagram represented by Fig. 3, rectifying in a second column said dilute bottoms product withdrawn from said distillation column and withdrawing as overhead of the rectification said high-purity ethanol.

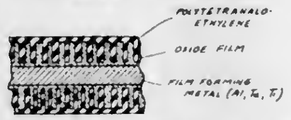
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2,647,079

## PRODUCTION OF INSULATED CONDENSER ELECTRODES

**John Burnham, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts**

**Application June 3, 1948, Serial No. 30,841**
**3 Claims. (Cl. 204—38)**




1. A process for producing insulated condenser electrodes which comprises anodically oxidizing a foil of a metal selected from the class consisting of aluminum, tantalum and titanium in a film forming electrolyte to form on the foil a porous oxide film having a thickness of from 1 to 400 microns, washing the porous oxide film with a liquid which is a solvent for the electrolyte to flush away the electrolyte, contacting the washed and undried film with a suspension of particles of a polytetrahaloethylene resin in a vehicle soluble in the washing liquid to impregnate the pores of the film with such resin particles, drying the impregnated film and sintering the resin particles together.

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2,647,080

## LIGHT-STABILIZED PHOTOPOLYMERIZATION OF ACRYLIC ESTERS

**Robert M. Joyce, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application June 30, 1950, Serial No. 171,561**
**6 Claims. (Cl. 204—158)**

3. A process for the preparation of a light-stable polymer which comprises photopolymerizing a halogen-free ester of an acid from the group consisting of acrylic acid and alpha-alkyl-acrylic acids with a polymerization initiator of the group consisting of acyloins and acyloin ethers with allyl glycidyl ether as the light-stabilizing agent.

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2,647,081

## PHOTOCHEMICAL PREPARATION OF TROPILIDENES

**William von E. Doering and Lawrence H. Knox, Katonah, N. Y., assignors to Research Corporation, New York, N. Y., a corporation of New York**

**No Drawing. Application March 23, 1951, Serial No. 217,296**
**2 Claims. (Cl. 204—162)**

1. A process for the preparation of tropilidenes which comprises irradiating with actinic light a mixture of diazomethane and a substance of the group consisting of monocyclic and bicyclic hydrocarbons containing at least one aromatic ring and their alkyl, alkoxy, chloro bromo and nitro substitution products and recovering the corresponding tropilidene thereby produced.

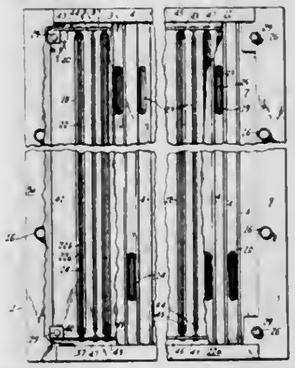
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2,647,082

## ELECTROLYTIC CELLS OF THE TANK TYPE

**Donald W. Kent, Whitemarsh, Pa.**

**Application July 28, 1949, Serial No. 107,160**
**2 Claims. (Cl. 204—258)**



1. In an electrolytic cell of the type including a tank and a top for said tank, the improvement of a tank top composed of a continuous sheet of thin material forming a plane surface, the mar-

gins of which rest on the upper edge of said tank, said plane sheet being compressed to form a number of parallel pleats standing upwardly above said plane surface, alternate positive and negative electrodes within said tank, each electrode being parallel to and centrally positioned with respect to a contiguous pair of pleats, a number of diaphragm supporting tubes of sheet material, the horizontal sections of each encircling the horizontal section of an electrode, each said tube being of a width equal to the distance between two contiguous pleats and formed with two portions extending upwardly above the said plane surface, each such portion extending into and secured within one of said contiguous pleats, said tank top comprising in addition vertically oriented rods carried by and depending from said plane surface, a horizontal frame carried by said vertically oriented rods, horizontal posts in opposed pairs carried by said horizontal frame, each pair of opposed posts entering into and supporting one of said electrodes on opposed sides thereof.

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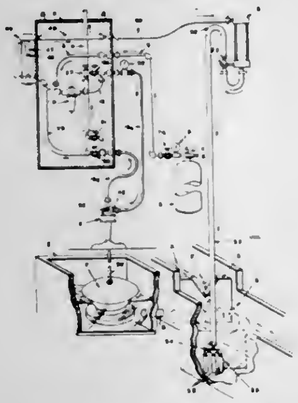
**2,647,083**

**MEANS FOR DIRECT FEED AUTOMATICALLY PROPORTIONING OF CHLORINE GAS**

**Roy B. Everson, Chicago, Ill.**

**Application January 9, 1950, Serial No. 137,624**

**2 Claims. (Cl. 210—2)**



1. A dry feed system for purifying liquid flowing in a flume the level of which liquid is subject to variation, comprising a weir in the flume providing overflow means for the liquid in the flume; means defining a channel into which overflow from said flume discharges; a container adapted to contain chlorine gas under pressure; a pipe line leading from said container to the point of application providing direct feed of non-liquified chlorine gas into the liquid; regulator valve means in said pipe line for reducing the pressure of the chlorine gas to be fed into the liquid; a goose-neck trap and a check-valve in said pipe line between said regulator valve means and the point of application; an expansion chamber interposed in said pipe line ahead of said goose-neck and check-valve; submerged gas diffuser means in the liquid at the point of application in said channel; and control means in said pipe line for automatically proportioning the flow of chlorine gas to said diffuser means; said control means being responsive to changes of quiescent level of said flume liquid to vary the volume of low pressure chlorine gas which is fed to said diffuser means, and said control means also being effective to shut-off the flow of gas to said diffuser means when the liquid level falls below the lowest level at said weir.

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**2,647,084**

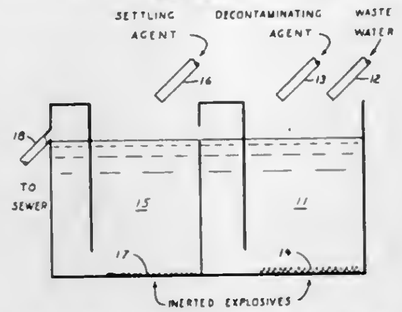
**DECONTAMINATION OF EXPLOSIVES CONTAMINATED MATERIALS**

**Louis McDonald, Inyokern, Calif.**

**Application November 18, 1947, Serial No. 786,596**

**2 Claims. (Cl. 210—2)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**




1. A decontamination process comprising adding benzyl dimethyl cetyl ammonium chloride to an aqueous solution containing at least one member of the group consisting of alpha TNT, tetryl, trinitrocresol, trinitroanisol, and diazodinitrophenol, in an amount sufficient to react with substantially all of each member of the group present in solution and to provide a sufficient excess of said benzyl-dimethyl-cetyl-ammonium chloride to ensure rapid precipitation of insoluble compounds.

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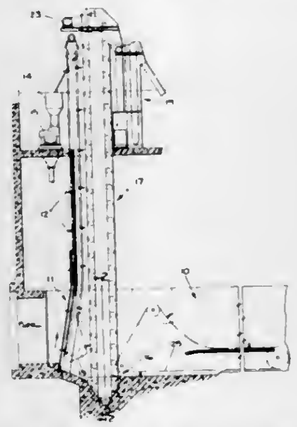
**2,647,085**

**APPARATUS FOR REMOVING GRIT FROM SEWAGE**

**Samuel L. Tolman, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio**

**Application March 28, 1949, Serial No. 83,932**

**1 Claim. (Cl. 210—3)**



Apparatus for removing grit from sewage including in combination, a grit channel into which settleable solids flow in a fluid stream, a screen at the influent end of said grit channel for removing trash from said fluid stream before it flows into said grit channel, a grit hopper in the bottom of said grit channel adjacent its influent end extending transversely thereof and downstream of said screen whereby the first grit to settle from said fluid stream collects in said grit hopper, a scraper conveyor in said grit channel downstream of said grit hopper for scraping grit in an upstream direction into said grit hopper, a bucket elevator at one side of said grit channel having a foot shaft adjacent one end of said grit hopper, wall means separating said bucket elevator from said grit channel, a short cylindrical feed pipe substantially in axial alignment with said bucket elevator foot shaft connecting said grit hopper and bucket elevator, a screw conveyor in said grit hopper extending substantially the full length thereof and at its discharge end extending into said short cylindrical feed pipe, and a baffle in said elevator cooperating to form a downwardly extending path for grit discharged from the end of said cylindrical feed pipe, said baffle having its botom edge spaced from said feed pipe and the bottom of said elevator, said bucket elevator foot shaft being common to both said bucket elevator and said screw conveyor whereby when said bucket elevator is operated said screw conveyor is operated to feed grit at such a rate that said bucket elevator cannot become overloaded, said screw conveyor, feed pipe and baffle cooperating to stop the flow of grit from said grit hopper into said elevator when said elevator is not in operation.



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**2,647,086**

**METHODS OF PHOSPHOR MANUFACTURE**

**Horace H. Homer, Arlington, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**

**No Drawing. Application March 1, 1950, Serial No. 147,155**

**5 Claims. (Cl. 252—301.3)**

1. In the method of making a phosphor of a type to which oxidation is deleterious, the steps of mixing with the ingredients necessary to form the phosphor about ½% to 1% by weight of a compound easily decomposable by heat to relatively inert gases free from any solid residue and selected from the group consisting of ammonium formate, ammonium oxalate and oxalic acid, and firing the resultant mixture to form the phosphor.

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**2,647,087**

**IMPROVED CALCIUM FLUOROPHOSPHATE PHOSPHOR CONTAINING ALUMINUM**

**David F. Fortney, Towanda, Pa., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**

**No Drawing. Application March 18, 1950, Serial No. 150,550**

**3 Claims. (Cl. 252—301.4)**

1. A calcium fluorophosphate phosphor activated by manganese and antimony containing about 0.01% aluminum.

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**2,647,088**

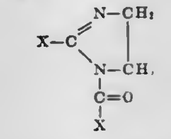
**METHOD OF INHIBITING FOAMING IN WATER**

**Lewis O. Gunderson, Park Ridge, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois**

**No Drawing. Application January 7, 1949, Serial No. 69,839**

**7 Claims. (Cl. 252—321)**

1. The method of inhibiting foam formation in water having a tendency to foam on boiling which comprises dispersing into said water in an amount sufficient substantially to inhibit said tendency, a compound having the formula:



wherein X is a non-aromatic hydrocarbon radical having 11–19 carbon atoms, and boiling the resulting dispersion to generate steam therefrom.

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**2,647,089**

**RECLAIMING RUBBER WITH REACTION PRODUCTS OF DIALKYLNAPHTHOLS WITH SULFUR CHLORIDE**

**William A. Hensley, Quincy, Ill., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**

**No Drawing. Application May 22, 1952, Serial No. 289,421**

**2 Claims. (Cl. 260—2.3)**

1. A process of reclaiming a vulcanized rubbery copolymer of styrene and 1,3-butadiene which comprises heating the vulcanized copolymer in the presence of the reaction product of 1 mole of a sulfur chloride and 2 moles of 1,6-di-tert-butyl-2-naphthol.

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**2,647,090**

**PROCESS FOR MAKING COMPOSITIONS FOR BATTERY BOXES**

**John M. McColgan, Los Angeles, Calif., assignor, by mesne assignments, to Stauffer Chemical Company, a corporation of California**

**No Drawing. Application July 20, 1951, Serial No. 237,847**

**4 Claims. (Cl. 260—17.2)**

1. A process for increasing the resistance to acid attack and penetration of a molded article of a composition including asphalt as a binder, filler material including acid-resistant mineral matter and substantially 10% to 15% by weight of the composition of organic fiber of acid attackable nature which comprises first spraying the organic fiber with a mixture of water and of from substantially 15% to 40% by weight of the organic fiber present of resin-forming material selected from the class consisting of polymerized furfuryl alcohol, phenol furfural and phenol formaldehyde, said resin-forming material being pre-polymerized to a viscosity of approximately 80 to 200 centipoises at 77° F. and including a catalyst for polymerization of said material into a resin which is highly resistant to storage battery acid at normal temperature of storage battery use whereby acid penetration in said article will be resisted by reason of the formation in situ in the organic fiber of an acid barrier therein due to the catalyzing action of the catalyst on the resin-forming material, mixing the sprayed fiber to wet the same uniformly, adding the binder and the mineral filler to the impregnated organic fiber to complete the composition, then heating the so-formed composition to a temperature between 250° F. and 325° F. for a time sufficient to complete substantially polymerization of the resin-forming material into a resin which is substantially impervious to attack by storage battery acid at a temperature of normal use of a storage battery, and then molding an article from the composition.

2,647,091

## BATTERY BOXES

John M. McColgan, Los Angeles, Calif., assignor to Stauffer Chemical Company, a corporation of California

No Drawing. Application January 26, 1953, Serial No. 333,360
4 Claims. (Cl. 260—17.2)

1. A process for increasing the resistance to acid attack and penetration of a molded article of a composition including asphalt as a binder, filler material including acid-resistant mineral matter and substantially 10% to 15% by weight of the composition of organic fiber of acid attackable nature, which comprises first spraying the organic fiber with a mixture of water and of from substantially 15% to 40% by weight of the organic fiber present of resin-forming material selected from a first class consisting of polymerized furfuryl alcohol, phenol furfural and phenol formaldehyde, and a second class consisting of cresol-formaldehyde and xylenol-formaldehyde, the second class providing approximately 50% to 75% of the total resin-forming material, said resin-forming material being pre-polymerized to a viscosity of approximately 80 to 200 centipoises at 77° F. and including a catalyst for polymerization of said material into a resin which is highly resistant to storage battery acid at normal temperature of storage battery use whereby acid penetration in said article will be resisted by reason of the formation in situ in the organic fiber of an acid barrier therein due to the catalyzing action of the catalyst on the resin-forming material, mixing the sprayed fiber to wet the same uniformly, adding the binder and the mineral filler to the impregnated organic fiber to complete the composition, then heating the so-formed composition to a temperature and for a time sufficient to complete substantially polymerization of the resin-forming material into a resin which is substantially impervious to attack by storage battery acid at a temperature of normal use of a storage battery, and then molding an article from the composition.

2,647,092

## STYRENE MODIFIED ALKYDS AND PROCESS OF PRODUCING THE SAME

Charles J. Meeske, Ferndale, and Deno Laganis, Detroit, Mich., assignors to Reichhold Chemicals, Inc., Detroit, Mich.

No Drawing. Application August 5, 1948, Serial No. 42,738
4 Claims. (Cl. 260—22)

1. A coating composition comprising an interpolymer formed by heating in the presence of a catalyst (1) a modified alkyd resin in an inert aromatic solvent and (2) styrene, the alkyd resin being derived from the reaction of polyhydric alcohol selected from a group consisting of glycerine and a mixture of glycerine and glycol with a carboxylic compound a major portion of which is an aromatic carboxylic compound selected from a group consisting of phthalic anhydride and phthalic acid, and a minor proportion of which consists of at least one unsaturated compound selected from a group consisting of maleic, fumaric, itaconic, sorbic acids and their anhydrides, the alkyd resin being modified with at least one member of a group consisting of non-drying and semi-drying oils and their fatty acids, the styrene content of the interpolymer being approximately within the range of 20 to 60% of the interpolymer, the percentage of oil or oil acid in the alkyd being about 30 to 80% calculated as oil and consisting essentially of said non-drying or semi-drying oils or their fatty acids and the percentage of inert solvent employed during interpolymerization being approximately within the range of 35 to 50%.

2,647,093

## METHYL METHACRYLATE-MODIFIED OIL ALKYD

Carl J. Opp and Raymond E. Werner, Cincinnati, Ohio, assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 12, 1951, Serial No. 236,479
4 Claims. (Cl. 260—22)

1. An alkyd resin comprising the reaction product of a partial ester and a polybasic carboxylic acid wherein the said partial ester is a polyhydric alcohol partially esterified with the conjoint polymerization product of methyl methacrylate with a conjugated ethylenically unsaturated fatty oil acid in the presence of a peroxide catalyst and an alkyl mercaptan having at least four carbon atoms, such alkyd resin being compatible with urea-formaldehyde resins.

2,647,094

## PIGMENT PASTES COMPRISING A PIGMENT AND A SALT OF A COPOLYMER OF STYRENE AND A MALEIC HALF-ESTER

Frank J. Hahn, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 19, 1950, Serial No. 180,511
16 Claims. (Cl. 260—23)

1. A pigment paste comprising water, 100 parts of a pulverulent water-insoluble pigment and from 1 to 50 parts of a salt prepared by neutralizing a copolymer of styrene and a half-ester of maleic acid with a compound taken from the group consisting of ammonia, morpholine and alkyl amines which are volatile at temperatures below 100° C., the ester groups in said half-ester consisting of a mixture of methyl groups and secondary butyl groups, the ratio of methyl groups to secondary butyl groups varying from 11:89 to 48:52 mol percent.

2,647,095

## ALKYD RESIN

Carl J. Opp and Raymond E. Werner, Cincinnati, Ohio, assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio

No Drawing. Application July 12, 1951, Serial No. 236,480
4 Claims. (Cl. 260—26)

1. An alkyd resin comprising the reaction product of a polybasic carboxylic acid, a polyhydric alcohol, and the copolymerization product of rosin with a monomer of the class consisting of styrene and methyl methacrylate in the presence of a peroxide catalyst and an alkyl mercaptan having at least four carbon atoms, said alkyd resin being compatible with urea-formaldehyde and melamine-formaldehyde resins.

2,647,096

## POLYVINYL CHLORIDE COMPOSITION CONTAINING A UTAH COAL RESIN

Lino J. Radi, Somerville, N. J., assignor to Interchemical Corporation, New York, N. Y., a corporation

No Drawing. Application December 6, 1951, Serial No. 260,341
7 Claims. (Cl. 260—27)

1. In the method of compounding a polyvinyl chloride plastic, the steps of incorporating with such a plastic 5% to 25%, based on the weight of the plastic, of a resin consisting essentially of carbon and hydrogen, having an average molecular weight on the order of 1,000 and a refractive index of 1.544 and occurring in Utah resin-bearing coals, and milling the mixture.



2,647,097

## PLASTIC MOLDING COMPOSITIONS COMPRISING A VINYL CHLORIDE POLYMER AND A RESINOUS TERPENE-PHENOL REACTION PRODUCT

George P. Humfeld and Donald Augustus de Tartas, Indianapolis, Ind., assignors to Radio Corporation of America, a corporation of Delaware

No Drawing. Application July 20, 1951, Serial No. 237,832
7 Claims. (Cl. 260—28.5)

1. A molding composition in which the resinous ingredients consist essentially, in respect to the total composition, of 25–30% by weight of a vinyl resin from the class consisting of polyvinyl chloride, vinyl chloride-vinylidene chloride copolymers in which the vinylidene chloride varies from 5–15% by weight, and vinyl chloride-vinyl acetate copolymers in which the vinyl acetate varies from 6–15% by weight, and 5–10% by weight of a second resin which is a product produced by reacting a terpene and a phenol in the presence of a molecular compound of boron trifluoride, said second resin having a melting point of 93–95° C., said composition also including 50–60% by weight filler and a minor amount of a wax, a vinyl resin stabilizer, a plasticizer, and a coloring agent.

2,647,098

## LINEAR POLYESTER PLASTICIZERS

William Mayo Smith, Jr., Cuyahoga Falls, and Robert J. Reid, Canal Fulton, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application November 8, 1951, Serial No. 255,540
15 Claims. (Cl. 260—31.4)

1. Process which comprises contacting, with calcium oxide, at temperatures from 150° to 250° C., and for a time of at least 15 minutes, a mixture of linear polyesters produced by esterifying together

| | Moles |
|---|---|
| A free alkylene dicarboxylic acid containing 4–12 carbon atoms | 2 |
| A diol selected from the group consisting of alkylene glycols and diglycols containing 2–12 carbon atoms | 1±0.1 |
| A monohydric alcohol selected from the group consisting of alkanols and alkoxyalkanols containing from 4–12 carbon atoms | 2±0.1 |

the calcium oxide being present to the extent of at least 0.5%, based on the weight of the linear polyesters.

2,647,099

## LINEAR POLYESTER PLASTICIZERS

William Mayo Smith, Jr., Cuyahoga Falls, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application November 8, 1951, Serial No. 255,539
18 Claims. (Cl. 260—31.6)

1. Process which comprises agitating together, at a temperature from 10° to 60° C., and for a time of at least 4 hours (A) an aqueous solution containing from 0.1 to 10.0% by weight of sodium hydroxide, with (B) a mixture of linear polyesters produced by esterifying together

| | Moles |
|---|---|
| A free alkylene dicarboxylic acid containing 4–12 carbon atoms | 2 |
| A diol selected from the group consisting of alkylene glycols and diglycols containing 2–12 carbon atoms | 1±0.1 |
| A monohydric alcohol selected from the group consisting of alkanols and alkoxyalkanols containing 4–12 carbon atoms | 2±0.1 |

2,647,100

## POLYVINYL ETHER ADHESIVE SUBSTANCE FOR PLASTER COATINGS AND METHOD OF MAKING THE SAME

Ferdinand Saldltt, Neuwied (Rhine), Germany, assignor to The Scholl Mfg. Co. Inc., Chicago, Ill., a corporation of New York

No Drawing. Application April 27, 1950, Serial No. 158,605. In Switzerland May 7, 1949
3 Claims. (Cl. 260—45.5)

1. A method of preparing an adhesive coating composition, which comprises providing a relatively low molecular weight polymer of a polyvinyl alkyl ether at a temperature sufficient to liquefy the same; and dissolving in said liquefied polymer, while it is maintained at said temperature, a relatively high molecular weight polymer of a polyvinyl alkyl ether that is normally solid at said temperature.

2,647,101

## PROCESS FOR MAKING TRANSPARENT FILM FROM VINYL CHLORIDE BASED RESINS ADMIXED WITH BUTADIENE-ACRYLONITRILE TYPE COPOLYMERS

Bingham J. Humphrey, Mount Carmel, Conn., and Robert J. Reid, Canal Fulton, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application July 2, 1947, Serial No. 758,714
7 Claims. (Cl. 260—45.5)

6. Process which comprises supplying (A) a polymerization-produced latex of a copolymer of (1) a butadiene-type compound selected from the group consisting of butadiene, isoprene, 2-methyl pentadiene-1,3, and mixtures of these compounds with (2) from about 15% to about 75%, based on the weight of the copolymer, of an acrylonitrile-type compound selected from the group consisting of acrylonitrile, methyl acrylonitrile, and mixtures of these compounds, substantially dewatering said latex without the application of heat, dissolving the copolymer in an organic solvent therefor to form a true solution thereof, incorporating in said solvent, for 20 to 120 parts of the copolymer, (B) 100 parts of a resin selected from the group consisting of polymers of vinyl chloride and copolymers thereof with up to 20%, based on the weight of such copolymers, of non-cross-linking unsaturated compounds copolymerizable therewith, casting, upon a support, a film from the resulting solution, drying said film, and stripping said film from said support.

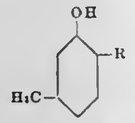
2,647,102

## AGE RESISTING NONSTAINING RUBBER COMPOSITION AND METHOD OF PRODUCING SAME

Joseph C. Ambelang, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application July 1, 1950, Serial No. 171,761
10 Claims. (Cl. 260—45.95)

1. A rubber composition resistant to deterioration, comprising vulcanized rubber containing a relatively small amount of the reaction product of 3 to 4 moles of formaldehyde and 6 moles of a dialkylphenol of the formula



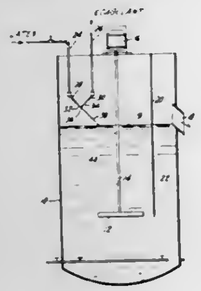
wherein R is a hydrocarbon radical containing 3 to 10 carbon atoms.

2,647,103

## LATEX COAGULATION PROCESS

John F. Griffith, Pottstown, Robert W. Lange, Boyertown, and Thomas W. Fisher, Jr., Elverson, Pa., assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application November 3, 1950, Serial No. 193,968
4 Claims. (Cl. 260—63)



1. Process which comprises impinging together, above the surface of a body of a slurry of previously coagulated latex, (1) a freely projected jet in the form of a continuous planar sheet of a latex selected from the group consisting of latices of polymers of vinyl chloride and of copolymers thereof with other unsaturated compounds copolymerizable therewith and containing at least 80% of vinyl chloride copolymerized therein with (2) a freely projected jet in the form of a continuous planar sheet of an aqueous solution of a coagulant for said latex selected from the group consisting of soluble polyvalent metal salts, hydrochloric acid, sulfuric acid and mixtures thereof with sodium chloride, and vigorously agitating said slurry at such a rate as to assimilate the mixture of latex and coagulant dropping thereinto from said jets to the extent of at least 50% within one second of the entry of said mixture into the slurry, said latex and coagulant being supplied at temperatures below 110° F., and said body of slurry being maintained at temperatures from 120° to 212° F.

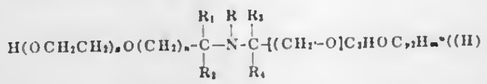
2,647,104

## LINEAR POLYESTER COMPOSITION

Joseph C. Shivers, Jr., West Chester, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 30, 1951, Serial No. 239,398
15 Claims. (Cl. 260—75)

1. A process for preparing modified polyethylene terephthalate containing dye receptive basic nitrogen which comprises treating an ethylene terephthalate polymer at temperatures in the range of 100° to 275° C. with an aminoalcohol represented by the formula



wherein R is selected from the group consisting of hydrogen and alkyl, aralkyl and alicyclic radicals of 1 to 18 carbon atoms; $R_1$, $R_2$, $R_3$ and $R_4$ are selected from the group consisting of hydrogen and hydrocarbon radicals of 1 to 6 carbon atoms, $R_1$ and $R_3$ being hydrocarbon radicals when R is hydrogen; $n$ and $n'$ are integers at least equal to 1; $m$ is 0 and 1; and $x$ and $y$ are integers at least equal to 0, continuing the treatment until the polymer has been made receptive to acid and direct dyes and stopping the treatment before discoloration of the polymer occurs.

2,647,105

## PROCESS OF POLYMERIZING EPSILON-CAPROLACTAM

Harold R. Mighton, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 26, 1951, Serial No. 248,455
5 Claims. (Cl. 260—78)

1. A process for producing polyamide which comprises polymerizing epsilon-caprolactam in the presence of a catalytic amount of an alkali metal hydride.

2,647,106

## ALKOXYPENTADIENOATE POLYMER COMPOSITIONS

Vaughn A. Engelhardt, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 20, 1950, Serial No. 150,813
8 Claims. (Cl. 260—78.3)

1. A polymer of an ether ester of 3-hydroxy-2,4-pentadienoic acid wherein the hydroxyl and carboxyl hydrogens of the acid are each replaced by a monovalent hydrocarbon radical with its free valence stemming from carbon of aliphatic character.

2,647,107

## IODOFORM AS MODIFIER IN VINYL CHLORIDE POLYMERIZATION

Arthur William Barnes, Tewin, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 3, 1950, Serial No. 153,772. In Great Britain April 8, 1949
9 Claims. (Cl. 260—78.5)

1. In a process for the polymerization of vinyl chloride in the presence of a catalyst selected from the group consisting of peroxy polymerization catalysts, organic azo polymerization catalysts and inorganic persulfate polymerization catalysts to form polymers of vinyl chloride of relatively low average molecular weight, the improvement which comprises carrying out the polymerization in the presence of iodoform in an amount not more than 1.0% by weight of the polymerizable material.



2,647,108

## PRODUCTION OF POLYTHIOUREAS

David J. Waters and Donald L. Wilson, Coventry, England, assignors to Courtaulds Limited, London, England, a British company

No Drawing. Application October 29, 1951, Serial No. 253,760. In Great Britain November 21, 1950
4 Claims. (Cl. 260—79)

1. A process for the production of polythioureas by reacting carbon disulphide with a primary diamine, the amino groups of which are separated by a chain containing at least three carbon atoms, to form an intermediate salt and heating this salt, comprising heating the salt in the presence of an aqueous medium until from 70 per cent to 95 per cent of the theoretical yield of a thermoplastic polythiourea has been precipitated, removing most of the aqueous liquor associated with the polymer and then heating the polymer, still in the presence of an aqueous medium until a fibre-forming thermoplastic polythiourea is obtained

2,647,109

## EMULSION POLYMERIZATION IN THE PRESENCE OF AN IMPROVED REDUCING COMPOSITION

Izaak M. Kolthoff, Minneapolis, Minn., and Avrom I. Medalia, Brookhaven, N. Y., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application February 27, 1950, Serial No. 146,638
9 Claims. (Cl. 260—84.1)

1. A process for the production of a polymer of high molecular weight, which comprises polymerizing a monomeric material comprising a conjugated diene while dispersed in an aqueous medium in the presence of a polymerization catalyst composition comprising an organic hydroperoxide, a water-soluble iron salt and a water-soluble pyrophosphate, and a reducing composition resulting from treating 0.1 to 10 millimols of a sugar with hydrogen peroxide in the presence of a water-soluble ferrous salt while in aqueous solution, with a mol ratio of said sugar to hydrogen peroxide between 0.3:1 and 5:1 and of said sugar to ferrous salt between 1:1 and 10:1, said millimols being per 100 parts by weight of said monomeric material.

2,647,110

## 2,3-DIFLUOROBUTADIENE PREPARATION AND POLYMERS THEREOF

Park A. Wiseman, Muncie, Ind., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application January 6, 1949, Serial No. 69,628
7 Claims. (Cl. 260—87.5)

1. Process which comprises dehalogenating 1,2,3,4-tetrachloro-2,3-difluoro-butane to yield 2,3-difluoro-1,3-butadiene.

2,647,111

## POLYMERIZATION OF STYRENE

Tevis Shusman, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 6, 1950, Serial No. 199,559
7 Claims. (Cl. 260—93.5)

1. In the mass polymerization of a polymerizable material containing at least 50% by weight of a vinyl aromatic compound, the step which comprises employing as a catalyst therefor a mixture of from 0.02 to 0.05 part of di-(tertiary butyl) peroxide and from 0.02 to 0.15 part of tertiary butyl peracetate per 100 parts of polymerizable material.

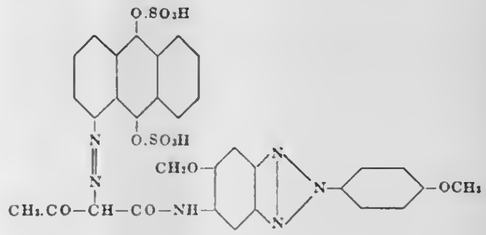
2,647,112

## STABLE WATER-SOLUBLE SALTS OF SULFURIC ACID ESTERS OF LEUCO-ANTHRAQUINONE AZO-DYESTUFFS

Karl Glenz, Basel, Switzerland, assignor to Durand & Huguenin A. G., Basel, Switzerland, a Swiss company

No Drawing. Application July 16, 1951, Serial No. 237,056. In Switzerland July 21, 1950
6 Claims. (Cl. 260—157)

4. The stable water-soluble salt of sulphuric acid ester of leuco-anthraquinone azo-dyestuff, corresponding, in the form of the free acid, to the formula



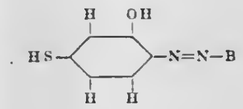
2,647,113

## AZO DYESTUFF

Robert Lantz and Georges Mingasson, Paris, France, assignors to Compagnie Francaise des Matieres Colorantes, Saint-Denis, France, a corporation of France

No Drawing. Application April 4, 1951, Serial No. 219,317. In France August 24, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 24, 1965
3 Claims. (Cl. 260—197)

1. A metallizable azodyestuff having the following general structural formula:



in which B is the radical of a coupling component the coupling position of which is adjacent that of a hydroxyl group and which contains no solubilizing group other than hydroxyl groups.

2,647,114

## METHOD FOR MAKING READILY FILTERABLE VISCOSE

Erich Torke, Hamburg, and Werner Matthaes, Krefeld (Rhine), Germany, assignors to Phrix-Werke, A. G., Hamburg, Germany, a corporation of Germany

No Drawing. Application December 2, 1950, Serial No. 198,906. In Germany May 7, 1949

8 Claims. (Cl. 260—217)

1. In the method for making readily filterable viscose by the sulfiding at a temperature of 20° to 40° C. with carbon disulfide of an alkali cellulose produced by the impregnation of cellulose with a 16–26% caustic solution, and having a degree of polymerization corresponding to an alkali cellulose produced from cellulose with a polymerization degree of about 250 to 400, and the addition of a solvent selected from the group consisting of lye and water to the resulting xanthagenate for the formation of viscose, the improvement which comprises adding at least one fifth of said solvent after the completion of the carbon disulfide addition for said sulfiding and effecting said sulfiding in the presence of said solvent.

2,647,115

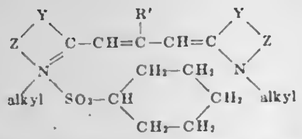
## CYANINE DYES

William Howells Vinton, Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 30, 1950, Serial No. 171,547

5 Claims. (Cl. 260—240.65)

1. The symmetrical and unsymmetrical carbocyanine compounds having the general formula:



where alkyl contains from 1 to 3 carbon atoms, R′ is a member taken from the class consisting of hydrogen and an alkyl radical of 1 to 3 carbon atoms, Y and Y′ are chalcogens taken from the group consisting of oxygen, selenium and sulfur and Z constitute the atoms necessary to complete an azole radical.

2,647,116

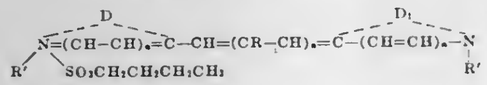
## CYANINE DYE SALTS

William Howells Vinton, Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 30, 1950, Serial No. 182,427

9 Claims. (Cl. 260—240.65)

1. The compounds of the formula:



wherein D and D1 are the atoms necessary to complete a 5- to 6-membered heterocyclic nitrogen nucleus, R is a member taken from the group consisting of hydrogen, alkyl and aryl radicals, R is an alkyl radical of 1 to 2 carbon atoms and *n* is a cardinal number from 0 to 1.

2,647,117

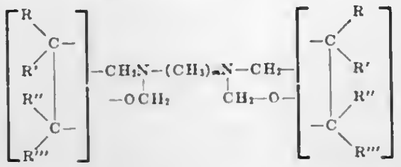
## PREPARATION OF NITROGEN-CONTAINING MATERIALS FROM OLEFINS

Howard D. Hartough, Pitman, Joseph J. Dickert, Jr., Westville, and Seymour L. Meisel, West Deptford Township, Gloucester County, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application November 29, 1949, Serial No. 129,948

14 Claims. (Cl. 260—246)

11. Bis-(tetrahydro-1,3-oxazino)-alkanes having the structural formula



wherein R, R′, R″, R‴ are selected from the group consisting of hydrogen atoms, alkyl radicals having not more than 16 carbon atoms, hydroxyalkyl radicals, carboxyalkyl radicals, oxoalkyl radicals, alkaryl radicals having not more than 8 carbon atoms in the alkyl group thereof, alkenylaryl radicals having not more than 8 carbon atoms in the alkenyl group thereof, thienyl radicals, furyl radicals, and pyridyl radicals, and *m* is an integer of 1 to 6.

2,647,118

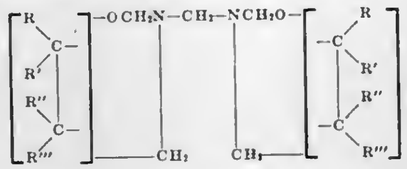
## METHOD FOR PREPARING BIS-(SUBSTITUTED TETRAHYDRO-1,3-OXAZINO)-METHANES

Howard D. Hartough, Pitman, Joseph J. Dickert, Jr., Westville, and Seymour L. Meisel, West Deptford Township, Gloucester County, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application June 22, 1950, Serial No. 169,792

3 Claims. (Cl. 260—246)

1. A process for obtaining improved yields of bis-methanes having the formula,



which comprises reacting an olefinic compound having the formula, RR′C=CR″R‴, with formaldehyde and an ammonium halide, in a molar proportion of at least 2.5 moles of formaldehyde per mole of said olefinic compound, at a temperature of between about 55° C. and about 70° C., and for between about 25 minutes and about 30 minutes; R,R′,R″, and R‴ being selected from the group consisting of hydrogen atoms, alkyl radicals having not more than 16 carbon atoms, hydroxyalkyl radicals, carboxyalkyl radicals, oxoalkyl radicals, a phenyl radical, alkaryl radicals having not more than 8 carbon atoms in the alkyl group thereof, alkenylaryl radicals having not more than 8 carbon atoms in the alkenyl group thereof, thienyl radicals, furyl radicals, and pyridyl radicals.



2,647,119

## PURIFICATION OF MELAMINE

John Wynne Haworth and Morris George Cooper, London, England, assignors to The British Oxygen Company Limited, London, England, a British company

No Drawing. Application November 2, 1949, Serial No. 125,154. In Great Britain November 10, 1948

1 Claim. (Cl. 260—249.7)

A process for the preparation of a commercially acceptable purified melamine from crude melamine containing caustic soluble impurities which comprises mixing the crude melamine at an elevated temperature with an aqueous liquor containing melamine in solution, filtering undissolved materials therefrom, adding to the filtered solution a hydroxide selected from the group consisting of alkali metal hydroxides and alkaline earth metal hydroxides, cooling to recrystallize melamine from the solution, the amount of hydroxide added being such as to ensure that the pH value of the solution at the recrystallization temperature lies between about 11.5 and 13 but below the latter, separating the recrystallized melamine from aqueous liquor constituting mother liquor, treating the said mother liquor with an acid which does not dissolve melamine or form an insoluble salt therewith under the conditions of operation, the acid being equivalent in amount to the amount of hydroxide previously added, and subsequently using the acid-treated mother liquor as the aqueous liquor for dissolving a further amount of crude melamine in the first operation hereof.

2,647,120

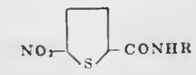
## 5-NITRO-2-THIOPHENECARBOXAMIDES

Thurmond A. Williamson, Dallas, Tex., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 14, 1949, Serial No. 133,008

4 Claims. (Cl. 260—256.4)

1. A 5-nitro-2-thiophenecarboxamide represented by the formula



where R is a 5 to 6 member N-heterocyclic radical selected from the group consisting of pyrryl, pyrazolyl, imidazolyl, pyridyl, pyrimidyl, pyridazyl, indyl, piperidyl, pyrazinyl, pyrazolidyl, pyridonyl, piperazyl, thiazolyl, and carboxypyridyl, said heterocyclic radical being linked to the amido nitrogen through a carbon atom of the N-heterocyclic ring.

4. A process for the preparation of a 5-nitro-2-thiophenecarboxamide which comprises reacting a 5-nitro-2-thiophenecarboxylyl halide in the presence of a basic solvent with an amine of a 5 to 6 member N-heterocyclic ring compound represented by the formula $RNH_2$, where R is a radical selected from the group consisting of pyrryl, pyrazolyl, imidazolyl, pyridyl, pyrimidyl, pyridazyl, indyl, piperidyl, pyrazinyl, pyrazolidyl, pyridonyl, piperazyl, thiazolyl, and carboxypyridyl.



2,647,121

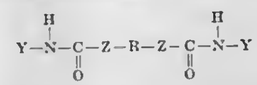
## DIAMINE-BIS-ACETAMIDES

Arthur L. Jacoby, deceased, late of Western Springs, Ill., by Ruth P. Jacoby, executrix, Western Springs, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware

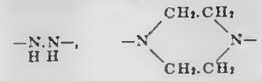
No Drawing. Application February 2, 1951, Serial No. 209,204

10 Claims. (Cl. 260—268)

1. A water insoluble compound having the following structural formula

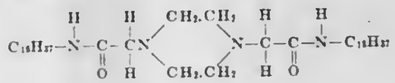


wherein Y is an alkyl group containing 12 to 18 carbon atoms; Z is a divalent hydrocarbon radical from the group consisting of phenylene and alkylene groups having one to four carbon atoms inclusive, and R is a bivalent polyamino group from the group consisting of



monoalkylene diamino in which the alkylene group contains at least 2 carbon atoms, polyalkylene polyamino containing at least two alkylene groups of at least two carbon atoms each and at least three nitrogen atoms, and phenylene diamino, having valence bonds from nitrogen atoms thereof connected to the radicals Z,Z.

10. The compound having the following structural formula



2,647,122

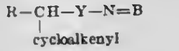
## TERTIARY AMINES AND PROCESS OF PREPARING THEM

Sydney Archer and Arlo Wayne Ruddy, Albany, N. Y., assignors to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware

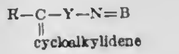
No Drawing. Application October 1, 1948, Serial No. 52,432

10 Claims. (Cl. 260—293)

1. A compound selected from the group consisting of



and



wherein the cycloalkenyl and cycloalkylidene groups are 5 to 6 membered rings, R is an aromatic group selected from the group consisting of the benzene, naphthalene, biphenyl, thiophene, pyridine and furan series, Y is an alkylene bridge of from 2 to 3 carbon atoms, —N=B is a member of the group consisting of di-lower-alkylamino, piperidino, pyrrolidino and morpholino radicals; and water-soluble salts thereof.

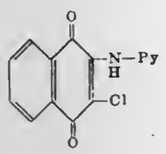
2,647,123

## N-(2-PYRIDYL) 2-CHLORO-3-AMINO-1,4-NAPHTHOQUINONES

Joseph C. Calandra, Chicago, Ill., and Ernest C. Adams, Jr., Elkhart, Ind., assignors to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application October 11, 1951, Serial No. 250,942
3 Claims. (Cl. 260—296)

1. Compounds of the general formula



wherein Py is selected from the group consisting of 2-pyridyl and methyl-2-pyridyl.

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2,647,124

## METHOD OF PREPARING SULFURIC ACID HALF ESTERS OF LEUCO ANTHRAQUINONES IN MILDLY ALKALINE AQUEOUS MEDIUM

William B. Hardy and Elizabeth M. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 24, 1950, Serial No. 175,664
17 Claims. (Cl. 260—303)

1. A process for the manufacture of water-soluble, sulfuric half ester salts of leuco anthraquinone compounds, which comprises subjecting the anthraquinone compound in an alkaline, aqueous medium, having a pH not greater than 11.5, to simultaneous reduction with a reducing agent, and esterification with a sulfur trioxide addition compound of a tertiary amine, having a dissociation constant of at least $1\times10^{-7}$ at 25° C.

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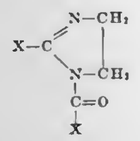
2,647,125

## ACYLATED IMIDAZOLINES AND METHOD FOR PREPARING THE SAME

Lewis O. Gunderson, Park Ridge, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois

No Drawing. Original application January 7, 1949, Serial No. 69,839. Divided and this application February 12, 1949, Serial No. 76,192
10 Claims. (Cl. 260—309.6)

1. A compound having the formula:



wherein X is a non-aromatic hydrocarbon radical having 11–19 carbon atoms.

2,647,126

## HALOGENATED PHTHALOCYANINE DISULFONIC ACIDS

André Pugin, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application July 10, 1950, Serial No. No. 173,004. In Switzerland July 11, 1949
4 Claims. (Cl. 260—314.5)

1. A phthalocyanin dyestuff obtained from a halogen-free phthalocyanin disulfonic acid containing a metal selected from the group consisting of copper and nickel by reacting in an alkali chloride-aluminium chloride melt with a halogenating agent at a temperature between 120 and 200° until from 2 to 7 halogen atoms have entered the dyestuff molecule.

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2,647,127

## PROCESS FOR PREPARING METAL PHTHALOCYANINES

Robert E. Brouillard, Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 16, 1950, Serial No. 196,085
12 Claims. (Cl. 260—314.5)

1. In a process for preparing a metal phthalocyanine by heating a reaction mixture containing a phthalocyanine-forming metal-yielding reagent, and an aromatic phthalocyanine intermediate having in a carbocyclic aromatic nucleus, ortho-substituents which form a tetrazaporphine ring upon heating in said reaction mixture, the improvement which comprises including in said reaction mixture a member of the group consisting of aliphatic monobasic sulfonic acids of 1 to 5 carbon atoms, salts thereof, esters thereof, and the corresponding amides and acid halides, in an amount corresponding to at least 25% of the weight of said aromatic phthalocyanine intermediate.

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2,647,128

## PROCESS FOR PREPARING METAL PHTHALOCYANINES

Robert E. Brouillard, Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 24, 1950, Serial No. 197,519
10 Claims. (Cl. 260—314.5)

1. In a process for preparing a metal phthalocyanine, which comprises heating, at phthalocyanine-forming temperature, a reaction mixture containing an organic phthalocyanine intermediate of the class consisting of carbocyclic aromatic ortho-dicarboxylic acids, their anhydrides, acid halides, esters, ammonium salts, mono- and diamides, imides and iminoimidines, the corresponding ortho-cyanocarboxylic acids and their esters, amides and ammonium salts, and corresponding $\omega,\omega'$-polyhalo-o-dimethyl and $\omega$-polyhalo-o-cyanomethyl carbocyclic aromatic compounds; a nitrogen donor of the class consisting of urea, biuret, guanidine, guanidyl-urea, dicyandiamide and cyanuric acid, and a phthalocyanine-forming metal-yielding reagent, in the presence of a catalyst promoting phthalocyanine formation in an inert organic liquid diluent, the improvement which comprises including in said reaction mixture an amount not substantially less than 25% of the weight of the said organic phthalocyanine intermediate, of a phosphoric acid salt of a member of the group consisting of the alkali metals, alkaline earth metals, and ammonium radical.



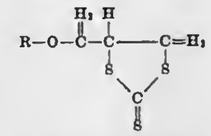
2,647,129

## ETHERS AND PROCESS FOR MAKING THE SAME

Joseph T. Bashour, New York, N. Y., assignor to Stauffer Chemical Company, a corporation of California

No Drawing. Application July 10, 1951, Serial No. 236,058
12 Claims. (Cl. 260—327)

1. As a new composition of matter a compound having the formula:



wherein R is a member chosen from the group consisting of lower alkyl radicals, phenyl radical, 4-halophenyl radicals, 4-nitrophenyl radical and 4-lower alkoxyphenyl radicals.

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2,647,130

## N-(n-TETRADECYL)-N-(3,4-METHYLENEDIOXYBENZYL)-N,N-DIMETHYLAMMONIUM CHLORIDE AND PREPARATION THEREOF

Charles Edward Kwartler, Albany, N. Y., assignor to Winthrop-Stearns Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 20, 1951, Serial No. 257,424
2 Claims. (Cl. 260—340.5)

1. N-(n-tetradecyl)-N-(3,4-methylenedioxybenzyl)-N,N-dimethylammonium chloride.

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2,647,131

## METHOD OF MANUFACTURE OF BIOLOGICALLY ACTIVE COUMARINE AND PRODUCT THEREOF

Karel Fučík and Ludvík Lábler, Prague, Czechoslovakia, assignors to Spofa, Spojene farmaceuticke zavody, narodni podnik, Prague, Czechoslovakia

No Drawing. Application February 4, 1950, Serial No. 142,534. In Czechoslovakia February 14, 1949
2 Claims. (Cl. 260—343.2)

1. 3,3'-bis-4-hydroxycoumarinylacetone.

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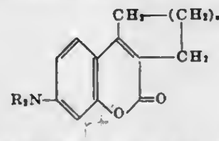
2,647,132

## COUMARIN DERIVATIVES

Robert Sidney Long, Bound Brook, N. J., and Carleton Alfred Sears, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 17, 1952, Serial No. 288,559
8 Claims. (Cl. 260—343.2)

1. Compounds having the formula:



in which R is an alkyl group and $n$ is an integer greater than 0 and smaller than 3.

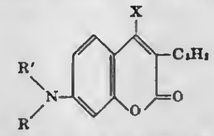
2,647,133

## ALLYL DERIVATIVES OF COUMARIN

Robert Sidney Long, Bound Brook, N. J., and Carleton Alfred Sears, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 10, 1952, Serial No. 292,726
5 Claims. (Cl. 260—343.2)

1. Compounds having the formula:



in which R, R' and X are lower alkyl radicals.

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2,647,134

## SELECTIVE REDUCTION OF 3-KETO GROUP OF POLYKETOSTEROIDS

John A. Hogg, Douglas A. Lyttle, and Alan H. Nathan, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 31, 1951, Serial No. 244,744
14 Claims. (Cl. 260—397.4)

1. A method for the conversion of a 3,20-diketopregnane to a 3-hydroxy-20-ketopregnane comprising contacting in solution a 3,20-diketopregnane with about 1–4 equivalents of a metal borohydride at temperatures from about zero degrees centigrade to about 100 degrees centigrade for a period of about two minutes to about two hours, the temperature and duration of the reaction varying inversely with the number of equivalents of metal borohydride, whereby the 3-keto group is selectively reduced to a hydroxyl group, and isolating a 3-hydroxy-20-ketopregnane from the reaction mixture.

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2,647,135

## 11-ALPHA-HYDROXY-3,20-DIKETO-PREGNANES

Alan H. Nathan, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application January 8, 1952, Serial No. 265,527
3 Claims. (Cl. 260—397.4)

1. A compound selected from the group consisting of 11α-hydroxypregnane-3,20-dione and 11α-hydroxyallopregnane-3,20-dione.

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2,647,136

## PREPARATION OF METHYLCHLOROSILANES

Robert O. Sauer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 22, 1948, Serial No. 3,835
3 Claims. (Cl. 260—448.2)

1. The method for the production of methylchlorosilanes which comprises reacting dimethyldichlorosilane with a compound corresponding to the general formula

$$(CH_3)_nSi(Cl)_{4-n}$$

where $n$ is one of the following: 0, 1, at a temperature from 300° to 500° C. and under a pressure of at least about 925 pounds per square inch in the presence of aluminum trichloride.

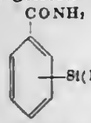
2,647,137

## TRIORGANOSILYLBENZAMIDES

Kurt C. Frisch and Phiroze D. Shroff, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

No Drawing. Application July 24, 1952, Serial No. 300,763
5 Claims. (Cl. 260—448.2)

1. A composition of matter comprising a compound having the general formula




where R is a monovalent hydrocarbon radical selected from the class consisting of alkyl, aryl, aralkyl, alkaryl, and cycloaliphatic radicals.

2,647,138

## CATALYST FOR THE HYDROGENATION OF CARBON MONOXIDE

Walter Rottig, Oberhausen-Sterkrade-Nord, Germany, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a joint-stock company of Germany

No Drawing. Application August 8, 1949, Serial No. 109,225. In France August 20, 1948
9 Claims. (Cl. 260—449.6)

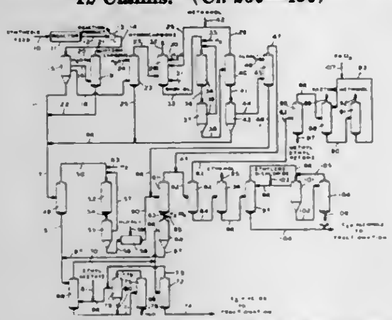
9. The process of hydrogenating carbon monoxide mixed with hydrogen which comprises passing said mixture at a temperature ranging between about 200° and 300° C. under a pressure near atmospheric pressure across a precipitated alkali-promoted catalyst which has been reduced with reducing gas and containing metallic iron within the range of 25 and 35%, ferrous oxide within the range of about 50 and 61%, ferric oxide within the range of about 4 and 25% and an acid alkali metal orthophosphate within the range of about 0.5 and 5%, the velocity of flow of the reducing gas for the reduction of the catalyst being between about 1.3 and 1.4 meters per second, the reduction period between about 30 and 60 minutes and the reduction temperature between about 200 and 240° C.

2,647,139

## SEPARATION OF ORGANIC COMPOUNDS

William P. Burton, Orange, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application March 31, 1948, Serial No. 18,202
12 Claims. (Cl. 260—450)



1. A process for treating the reaction product obtained in the hydrogenation of oxides of carbon wherein said product comprises a mixture of hydrocarbons and oxygenated organic compounds comprising alcohols, acids, aldehydes and ketones, which comprises: cooling said product to effect substantial condensation of normally liquid components to form an oil product liquid phase and a water product liquid phase, each of said phases containing at least a portion of said oxygenated compounds; separately water scrubbing said oil product liquid phase to obtain a water layer comprising water-soluble oxygenated compounds and an oil layer comprising oil-soluble oxygenated compounds and hydrocarbons; subjecting said oil layer to extraction treatment with an aqueous solution of a water-soluble alcohol to obtain a raffinate containing hydrocarbons and an extract containing oil-soluble oxygenated compounds; subjecting said extract to selective hydrogenation to convert aldehydes present to their corresponding alcohols and to form a mixture comprising alcohols and ketones; separating alcohols from ketones in the mixture thus produced; combining said water layer from water-scrubbing of said oil product liquid phase with said water product liquid phase; fractionating the combined mixture into a relatively high boiling fraction comprising organic acids and a relatively low boiling fraction comprising alcohols, aldehydes and ketones; subjecting said relatively low boiling fraction to selective hydrogenation to convert aldehydes present to their corresponding alcohols and to form a mixture comprising alcohols and ketones; and separating alcohols from ketones in the mixture thus produced.

2,647,140

## PROCESS FOR THE PRODUCTION OF DIALKYLTHIOPHOSPHATES

Heinz Jonas, Leverkusen, Germany, assignor to Farbenfabriken Bayer, Leverkusen, Germany

No Drawing. Application December 27, 1950, Serial No. 203,004. In Germany April 16, 1949
4 Claims. (Cl. 260—461)

1. In a process of preparing a dialkylthiophosphate the step which comprises mixing under substantially anhydrous conditions a dialkylphosphite with sulfur and a nitrogen compound of the group consisting of ammonia and organic amines, and recovering an amine salt of a dialkylthiophosphate.

2,647,141

## PRODUCTION OF ISOPHTHALIC ACID

Robert Morris Cavanaugh, Carl Bruno Flack, and Robert Howard Weir, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 29, 1949, Serial No. 135,844
7 Claims. (Cl. 260—524)

1. A process for the manufacture of isophthalic acid in a one-step process, which comprises reacting with dilute nitric acid at autogenous pressure at a temperature between 225° and 280° C. a meta-dialkylbenzene in which the number of carbon atoms in each of the alkyl groups is less than 4, said nitric acid having an initial strength between 5 and 35% and being present in a ratio by weight of between 2 and 10 parts 100% $HNO_3$ to 1 part meta-dialkyl benzene.

2,647,142

## PRODUCTION OF GLUTAMIC ACID

Forest A. Hoglan, Glenview, Ill., assignor to International Minerals & Chemical Corporation, a corporation of New York

No Drawing. Application May 24, 1952, Serial No. 289,895
13 Claims. (Cl. 260—529)

1. In a process involving the sulfuric acid hydrolysis of a proteinaceous composition, followed by treating the hydrolysate with a sufficient amount of agent selected from the group consisting of alkaline earth metal oxides, hydroxides, and carbonates to give the hydrolysate a pH of between about 8 and about 12 and separating insoluble material therefrom; the improvements comprising adding to the resultant solution acidic material selected from the group consisting of acids and acid anhydrides whose salts with alkaline earth metals are substantially water-insoluble in sufficient amount to coprecipitate a mixture of glutamic acid and water-insoluble salts of alkaline earth metals, separating the coprecipitate from the aforesaid solution, selectively dissolving the glutamic acid in the coprecipitate, separating the insoluble salts of alkaline earth metals from the glutamic acid-containing solution, and crystallizing glutamic acid from the solution so separated.



2,647,143

## MANUFACTURE OF PERCHLOROMETHYL MERCAPTAN

Harold M. Pitt, Torrance, and Wilburn Boggs, Redondo Beach, Calif., assignors to Stauffer Chemical Company, a corporation of California

No Drawing. Application December 6, 1951, Serial No. 260,344
2 Claims. (Cl. 260—543)

1. A process for purifying crude perchloromethyl mercaptan containing sulfur chloride and complexes resulting from reaction of chlorine and carbon disulfide during manufacture of perchloromethyl mercaptan, comprising agitating the crude perchloromethyl mercaptan with an aqueous phase acidified to a pH below 4.5 while introducing chlorine to react with the sulfur chloride and form sulfuric acid and hydrochloric acid and to oxidize the complexes present and form materials soluble in the aqueous phase, and separating the perchloromethyl mercaptan from the aqueous phase.

2,647,144

## OXIDATIVE CONDENSATION OF AMINES AND DITHIO ACIDS

George E. P. Smith, Jr., Akron, Ohio, assignor to The Firestone Tire & Rubber Co., Akron, Ohio, a corporation of Ohio

No Drawing. Application December 30, 1948, Serial No. 68,397
3 Claims. (Cl. 260—551)

3. Method of producing a thioaroylamide which comprises reacting (1) a primary amine of the group consisting of alkyl and cycloalkyl amines, in the presence of an oxidizing agent of the group consisting of iodine, chlorine, bromine, sodium hypochlorite, sodium hypobromite, sodium chlorite, potassium ferricyanide, hydrogen peroxide, sodium perborate, potassium persulfate and sodium percarbonate, with (2) a soluble salt of an aryl carbodithioic acid which is free from other oxidizable groups than sulfur.

2,647,145

## TETRAETHYLTHIURAM DISULFIDE DERIVATIVES

Jens Gunnar Hald and Inger Grete Gad, Copenhagen, Denmark, and Sidney Alfred Vindin Deans, Rosemount, Montreal, Canada, assignors to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada, a corporation of Canada

Application September 2, 1949, Serial No. 113,726
In Denmark January 5, 1949
9 Claims. (Cl. 260—567)

1. A new composition of matter having the general empirical formula $((C_2H_5)_2NCS_2—)_2.2CX_4$ wherein X is halogen.

2. A process for the manufacture of pseudomorphous tetraethylthiuram disulphide comprising heating to reaction temperature a mixture of crystalline tetraethylthiuram disulphide with a carbon tetrahalide to form a complex consisting of one molecule of tetraethylthiuram disulphide and two molecules of carbon tetrahalide, decomposing said complex and recovering a pseudomorph after said complex.

2,647,146

## PROCESS FOR THE PREPARATION OF DIPRIMARY DIAMINES

Paul Arthur, Jr., Wilmington, Del., assignor to E. I. dn Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 1, 1949, Serial No. 102,713
2 Claims. (Cl. 260—583)

1. A process for the preparation of diprimary diamines wherein a dinitrile having two cyano, —CN, groups directly attached, each through $—C(CH_3)_2—$ radical to the termini of a chain composed of from 5 to 15 butadiene units is hydrogenated by means of hydrogen at a pressure of 200–5000 atmospheres and at a temperature of 180–300° C. in the presence of ammonia and a palladium and nickel catalyst to a diprimary diamine having two $H_2NCH_2$ groups each attached through a $—C(CH_3)_2—$ radical to the termini of a chain of from 5 to 15 dihydrobutadiene units and said diamine is recovered.

2,647,147

## PROCESS FOR PREPARING 2,3-BUTADIENYLAMINES

Vaughn A. Engelhardt, Claymont, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 13, 1950, Serial No. 200,695
10 Claims. (Cl. 260—583)

7. In a process for the preparation of amines having on the amino nitrogen a four carbon aliphatic substituent of the class consisting of the 2,3-butadienyl and the 3-butynl substituents by reacting monovinylacetylene with a non-aromatic amine having hydrogen on amino nitrogen, which hydrogen is the only active hydrogen, having not more than six carbons per amino nitrogen and having a solubility in water at 25° C. of at least 3.5%, the improvement wherein the amine is brought into contact, in an aqueous system at 50–200° C., with the monovinylacetylene, said system having a base content in at least 25% excess of that corresponding to one mole amine per mole of monovinylacetylene.

2,647,148

## 3,4-DIHYDROXY-4'-HALOGENO CHALCONES

Gustav J. Martin and Jay Morton Beller, Philadelphia, Souren Avakian, Oreland, and Jack N. Moss, Philadelphia, Pa., assignors to The National Drug Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application July 20, 1951, Serial No. 237,834
3 Claims. (Cl. 260—590)

1. 3,4-dihydroxy-4'-halogeno chalcones.

2,647,149
**PRODUCTION OF OXYGEN-CONTAINING CARBON COMPOUNDS**
**Paul C. Condit, Berkeley, and John A. Spence, Richmond, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware**
No Drawing. Application October 20, 1947, Serial No. 781,003
8 Claims. (Cl. 260—597)

1. The process for preparing a catalyst capable of catalyzing the reaction of an olefinic carbon compound with carbon monoxide and hydrogen at temperatures below about 300° F. comprising reacting, in the presence of water, a compound of a metal from the group consisting of cobalt, iron, and nickel with carbon monoxide at from 100 to 400 atmospheres pressure and from 350° to 450° F.

2,647,150
**SEPARATION OF ALCOHOLS FROM MERCAPTANS**
**Robert J. Askevold, Skokie, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio**
No Drawing. Application March 10, 1948, Serial No. 14,143
4 Claims. (Cl. 260—609)

1. The method of recovering fractions substantially richer in aliphatic alcohol and fractions substantially richer in aliphatic mercaptan from a mixture of same, comprising percolating said mixture at ambient temperature through an amount of a granular adsorbent sufficient to adsorb a substantial portion of the alcohol from the mixture, continuing said percolation for a time sufficient to saturate said adsorbent with said mixture and recovering effluent fractions substantially richer in aliphatic mercaptan until the aliphatic alcohol content thereof shows a substantial increase, thereafter discontinuing said percolation, separating said spent adsorbent from said mixture, eluting said adsorbent with a liquid selected from the group consisting of an alcohol of lower molecular weight than the aliphatic alcohol in said mixture and water, to thereby obtain fractions substantially richer in aliphatic alcohol than said mixture.

2,647,151
**PRODUCTION OF METHANETHIOL**
**Richmond T. Bell, Grays Lake, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio**
No Drawing. Application October 22, 1949, Serial No. 123,109
3 Claims. (Cl. 260—609)

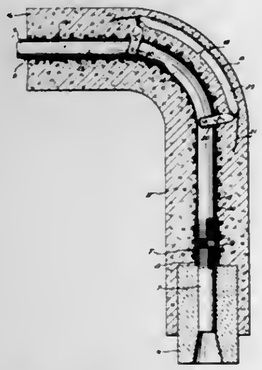
1. The method of making methanethiol from methanol and hydrogen sulfide which comprises, passing a mixture of methanol and hydrogen sulfide as reactants, and introducing hydrogen in the amount above 0.005 but less than about 0.20 mol per cent of said reactants into a reaction zone, contacting said reactants therein in the presence of added hydrogen with a catalyst comprising thoria supported on a carrier at a temperature within the range of about 300° to 450° C. and recovering methanethiol from the reaction zone.

2,647,152
**TERPENYLALKYLPHENOLS AND THEIR PREPARATION**
**Leland J. Kitchen, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio**
No Drawing. Application July 12, 1950, Serial No. 173,489
4 Claims. (Cl. 260—619)

1. 2,4-dialkyl-6-isobornylphenols.

# ELECTRICAL

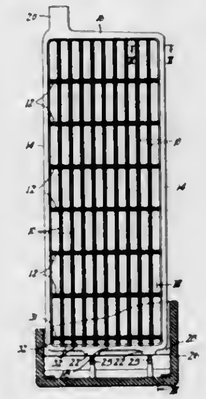
2,647,153
**PROTECTOR SKID FOR THERMOCOUPLES**
**William R. Guerry, Canton, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey**
Application December 30, 1949, Serial No. 135,926
5 Claims. (Cl. 136—4)



1. A thermocouple head comprising a pipe having a bent portion between its ends and a refractory material reinforcing and retaining means attached to said pipe and comprising a sheet metal body, said body having an elongated relatively narrow portion bent to conform generally to the bent portion of the pipe and spaced on one side and outwardly of said pipe portion.

2,647,154
**STORAGE BATTERY**
**John L. Rupp and Marion W. Dickover, Williamsville, and Eugene Willihnganz and Almond H. Snyder, Lancaster, N. Y., assignors to National Battery Company, St. Paul, Minn.**
Application August 4, 1949, Serial No. 108,548
5 Claims. (Cl. 136—36)

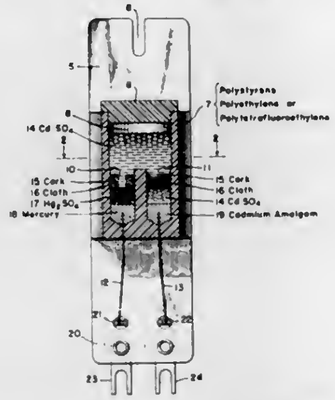
1. In a storage battery, an active paste carrying grid, comprising a molded metal fabrication including vertical and transverse rib elements defining vertically elongate active paste pockets therebetween, said rib members being framed within opposite side and top and bottom metal strand portions outlining said grid, and a paste guard rib member disposed to substantially bridge the thickness of strand portions and extending substantially parallel to the bottom strand portion, said guard rib member being separated from said bottom strand portion a distance less than one-half the average distance between other transverse rib elements, whereby said guard rib



retards the sloughing loss of paste from the lower portion of the grid.



2,647,155
**PRIMARY ELECTROLYTIC CELL OR GROUP OF CELLS**
**Clarence A. Dyer, Glenside, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
Application July 29, 1949, Serial No. 107,556
2 Claims. (Cl. 136—88)




2. A group of standard primary cells including, a closed hollow body having a cavity communicating with a plurality of separate recesses therein, said body being composed of a plastic selected from the class consisting of polystyrene, polyethylene or polytetrafluoroethylene, chemically active voltage producing materials in said recesses in the cavity in said body, and a cover of inverted cup shape surrounding the hollow and the recesses in said body and composed of metallic material of good heat-conductivity to equalize the temperature in each of said recesses.

2,647,156
WITHDRAWN

2,647,157
**ELECTRICAL STORAGE BATTERY**
**Frank Booth, Denton, near Manchester, England, assignor to Oldham & Son Limited, Denton, near Manchester, England, a British company**
Application April 24, 1950, Serial No. 157,701
In Great Britain May 3, 1949
4 Claims. (Cl. 136—147)



1. A method of making a positive plate assembly for an electrical storage battery, which comprises the steps of applying a retainer mat to each face of a positive plate, coating at least the marginal edges of a suitably shaped sheet of a substantially inextensible woven sheet material inert to the acid of an electric battery with a thermoplastic material, tightly wrapping said sheet across and about said retainer mats and said positive plate so as closely to envelop said mats and said plate, and applying heat to said marginal edges to weld said edges together by fusing said coating material and to hold said mats firmly in position in contact with the active material of said plate.

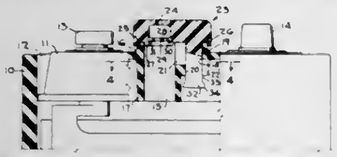
2,647,158
**METHOD OF MAKING ACID RESISTING MICROPOROUS MATERIAL FOR STORAGE BATTERY SEPARATORS**
**Frank Booth, Denton, near Manchester, England**
No Drawing. Application August 17, 1948, Serial No. 44,807. In Great Britain April 18, 1947
8 Claims. (Cl. 136—148)

3. Method of manufacturing micro-porous material for use in constructing separators for a storage battery, which comprises the steps of treating a shredded wood with an alkali to soften and loosen the fibres thereof and to remove substances that would be deleterious to the plates of a storage battery, converting the shredded wood into a fine pulp, mixing the wood pulp in the wet condition with a water-soluble synthetic resin capable of being polymerised to form an acid-resisting polymer, said water-soluble synthetic resin being included in a proportion not exceeding 5 parts by volume of synthetic resin to 150 parts by volume of wood pulp, drying the mixture to form a solid dry mass, and thereafter heat treating it to polymerise the resin.

2,647,159
**STORAGE BATTERY FILLING AND VENTING STRUCTURE**
**Lester E. Lighton, Glenside, Pa., assignor to The Electric Storage Battery Company, a corporation of New Jersey**
Application December 2, 1949, Serial No. 130,685
11 Claims. (Cl. 136—177)

1. A storage battery filling and venting structure, comprising a cell cover having a filling and

venting opening therein, a filling tube extending downwardly from said filling and venting opening to approximately the maximum desirable electrolyte level, a second opening adjacent said filling and venting opening, a second tube extending downwardly from said second opening and having a portion of its wall in common with said filling tube, said common wall being pro-



vided with an aperture therethrough, closure means for said filling and venting opening permanently associated with said cell cover, said closure being provided with a depending slotted arm movably positioned within said second tube, said slot normally affording communication between the interior of said battery and said common aperture.

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**2,647,160**
**INSULATING SHEATH WITH EMBEDDED ELECTRICAL CONDUCTOR**
**Lawrence D. Hood, Jefferson County, Colo.**
**Application November 26, 1951, Serial No. 258,235**
**2 Claims. (Cl. 174—98)**

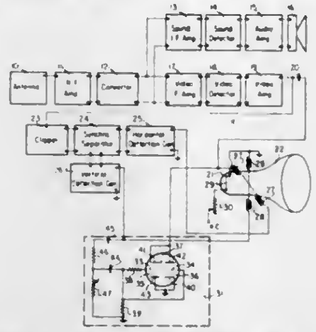


1. An electrical conductor for the purpose specified comprising a flexible non-metallic tube of electrically insulating material, split lengthwise and provided with normally overlapping edges, at least one metallic electrical cable embedded in the wall of the tube, the material having an inherent inwardly coiling action which serves to hold the edges of the tubular member in lapped position, the material having sufficient flexibility to allow the edges to be separated sufficiently to permit a duplex non-metallic cable to be inserted and sufficient resiliency to return the edges to closed position.

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**2,647,161**
**DOUBLE TRIODE CLAMPING CIRCUIT FOR DIRECT CURRENT REINSERTION**
**Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois**
**Application September 17, 1947, Serial No. 774,503**
**1 Claim. (Cl. 178—7.5)**

In a television receiver adapted to produce a picture from a composite video signal including picture elements representing various light intensities, and line and field synchronization signals superimposed on a reference level corresponding to a black picture interspersed with said picture elements, which receiver includes a cathode ray tube having means for producing an electron beam and a grid for controlling the intensity thereof, and a vertical deflecting circuit synchronized with said field synchronization signals for deflecting said beam; means for establishing a bias on said grid of said cathode ray tube so that the intensity of said beam for signals of said reference level is fixed independently of the strength of said video signal including in combination, first condenser means connected to said grid for applying said video signal thereto, a clamping circuit coupled to said grid and to a point of zero potential and rendered conducting when a voltage pulse is applied thereto, said clamping circuit including first and second triode valves having cathode, anode and grid electrodes, said cathode of said first valve and said anode of said second valve being connected to said cathode ray tube grid, said anode of said first valve and said cathode of said second valve being connected to said point of zero potential, and a coupling circuit connected to said vertical deflecting circuit and to said clamping circuit for applying the voltage pulse produced in said vertical deflection circuit to said clamping circuit each time said field synchronization signal

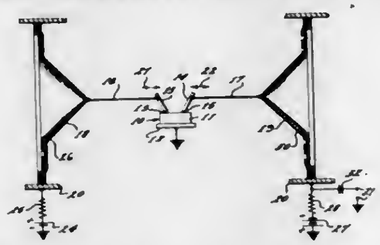


is applied to said cathode ray tube grid, said coupling circuit including voltage divider means, coupling condenser means connecting said voltage divider means to said vertical deflection circuit for applying the voltage pulse thereto, biassing resistor means connected between said grids of said triode valves and zero potential, and second coupling condenser means connecting said voltage divider means to said grids of said valves for applying a portion of said voltage pulse from said vertical deflection circuit thereto to cause said valves to conduct and thereby connect said cathode ray tube grid to said point of zero potential, so that the voltage across said first condenser means is adjusted to provide the voltage required to hold said grid at said zero potential, said second condenser means being effective to block said triode valves at the end of each voltage pulse.

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**2,647,162**
**ELECTROACOUSTICAL SIGNAL TRANSDUCER**
**Robert K. Duncan, Woodburn, Ind., assignor to Radio Corporation of America, a corporation of Delaware**
**Application January 16, 1951, Serial No. 206,277**
**10 Claims. (Cl. 179—1)**

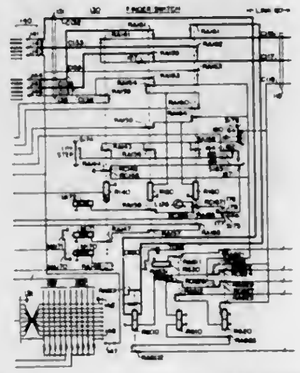
1. An electromechanical transducer comprising a semi-conductor device including a semi-conducting body, a base electrode in fixed low-resistance contact with said body, an emitter and a collector electrode in rectifying contact with said body, said emitter and collector electrodes consisting each of a conductor having a rounded tip in contact with said body, a vibratile device, means connecting said vibratile device to one of said conductors for tilting said one conductor, thereby to roll its tip over said body in response to movement of said device, and means connected to the other one of said conductors and adapted to tilt it, thereby to roll its tip over said body, whereby the distance between the contact points



of said conductors with said body are jointly determined by vibrations of said vibratile device and by said second named means.

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**2,647,163**
**CONVERSATION TIMING IN TELEPHONE SYSTEMS**
**Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application January 5, 1950, Serial No. 136,922**
**14 Claims. (Cl. 179—7.1)**

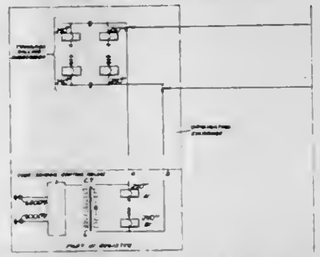


1. In a telephone system for establishing connections between calling lines in first and second groups of calling lines and called lines in first and second groups of called lines, circuit means for automatically interrupting an established talking connection, second circuit means for operating said first circuit means only on connections established from calling lines in said first group of calling lines to called lines in said first group of called lines, said second circuit means being inoperative to interrupt connections established from calling lines in said first group of calling lines to called lines in said second group of called lines and from calling lines in said second group of calling lines to called lines in said first and second groups of called lines, a clock device controlling said second circuit means, means operated by said clock device during fixed time periods of the day to render said second circuit means operative only during said fixed time periods of the day, a timer device controlling said second circuit means, means operated by said timer device to render said second circuit means operative a certain period of time after the connection is established, and a manual switching means for disabling said first circuit means.





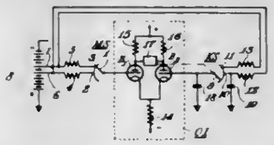
**2,647,164**
**VOICE-FREQUENCY CODE SIGNALING SYSTEM**
**Martinus den Hertog, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application April 22, 1948, Serial No. 22,617**
**In the Netherlands April 24, 1947**
**4 Claims. (Cl. 179—16)**



1. In a telecommunication switching system, a plurality of exchanges including an originating exchange and a terminating exchange, a first register at said originating exchange and a second register at said terminating exchange, connecting means interconnecting said registers, means in said second register for applying a first direct current potential to said connecting means, voice-frequency code signal transmitting means in said first register adapted to transmit a plurality of successive spaced code signals representing a numerical digital value, additional means at said first register for controlling said transmitting means to transmit a predetermined number of said signals, means whereby said additional means is made operable in response to said first potential, additional means at said second register for altering said potential, means whereby said last-mentioned means is made operable in response to the receipt of said predetermined number of signals, further means at said first register for controlling said transmitting means to transmit the balance of said signals, means whereby said further means is made operable in response to said altered potential, further means at said second register for re-applying said first potential to said connecting means, and means whereby said last-mentioned means is made operable in response to the receipt of the balance of said signals.

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**2,647,165**
**APPARATUS FOR BREAKING CONTACT RESISTANCE IN A MARKER-CONTROLLED SELECTOR**
**Robert Bertold Buchner, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**
**Application July 29, 1949, Serial No. 107,413**
**In the Netherlands September 13, 1948**
**2 Claims. (Cl. 179—18)**

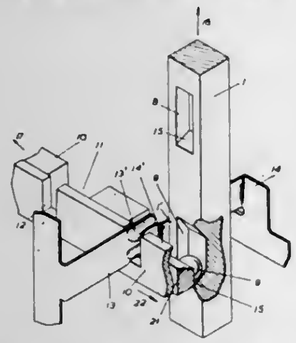


1. In an automatic signalling system, a selector switch having a series of outlet contacts and a wiper arm for successively engaging said contacts, means to impress distinguishing potentials on each of said contacts relative to a point of

constant potential, a testing device to adjust said wiper arm to a contact at which the potential thereon corresponds to a predetermined marking potential and provided with means for comparing the potential established on said arm with said marking potential and means responsive to the potential difference therebetween to actuate said arm successively to engage said contacts and arresting said arm when the potentials are alike, and means for producing an impulse through said arm upon reaching an outlet contact to overcome the contact resistance thereof, said last named means including a condenser connected between said arm and said point of constant potential and having a value at which the resultant impulse intensity is high with respect to the current traversing the switch in testing operation.

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**2,647,166**
**SWITCHING MECHANISM**
**Georges Xavier Lens, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application December 31, 1949, Serial No. 136,188**
**In France January 19, 1949**
**6 Claims. (Cl. 179—27.54)**

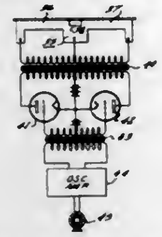


1. A switching mechanism for telecommunication systems comprising a translator bar operatively positioned for movement in a first plane, a clutching bar operatively positioned adjacent said translator bar for movement in a plane substantially at right angles to said first plane, means for actuating said translator and clutching bars for predetermined movements in said respective planes, said translator bar having a cavity therein, a ball normally held in said cavity, said clutching bar being provided with a similar cavity positioned adjacent said translator bar whereby said predetermined movement of said translator bar is operative to transfer said ball to the cavity in said clutching bar, a plurality of spring contacts associated with said clutching bar and means controlled by said predetermined movement of said clutching bar for controlling said spring contacts by said ball.

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**2,647,167**
**MAGNETIC TRANSDUCER CONSTRUCTION**
**Michael Rettinger, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware**
**Application March 21, 1950, Serial No. 150,875**
**1 Claim. (Cl. 179—100.2)**

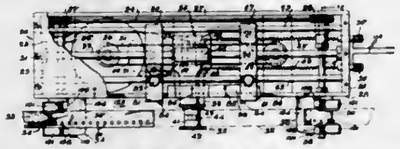
A push-pull magnetic head comprising a flat inductor element having two sections, an edge of each section being adapted to contact a magnetizable or magnetized medium, each section having an end leg forming one terminal connection and a common center leg forming a second terminal connection for each section, core material surrounding each section, except for



the edges thereof adapted to contact said medium, and an insulating material for maintaining said element and core material in fixed positions with respect to one another.

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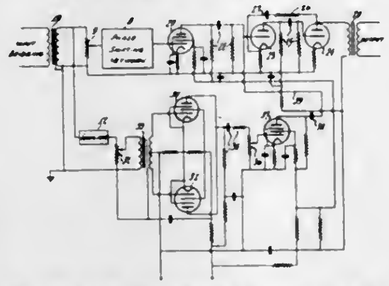
**2,647,168**
**MAGNETIC SOUND RECORD EDITING MACHINE**
**Carlos E. Rivas, Hollywood, Calif., assignor to Mark U. Serrurier, Los Angeles, Calif.**
**Application December 18, 1950, Serial No. 201,439**
**9 Claims. (Cl. 179—100.2)**



1. In a machine for editing a sound record having a sound track, a pickup adapted when relative scanning movement between said pickup and sound track occurs, to receive impulses from said track, an electric circuit for utilizing said impulses to actuate a sound reproducer, means for effecting said relative scanning movement in alternately opposite directions, and means for rendering said electric circuit operative to utilize said impulses only during an energized scanning path restricted to relative scanning movement in one direction only.

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**2,647,169**
**DIRECT POSITIVE SOUND RECORDING**
**Arthur C. Blaney, Los Angeles, and Kurt Singer, North Hollywood, Calif., assignors to Radio Corporation of America, a corporation of Delaware**
**Application June 22, 1950, Serial No. 169,696**
**10 Claims. (Cl. 179—100.3)**

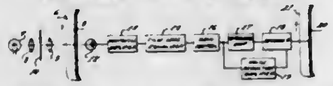


1. A distortion producing system for a photographic sound recording system, comprising a signal source, a phase shifting unit for said signal connected to said source, an equalizer connected to said source for raising the higher frequency portion of said signal, a distortion generator connected to said equalizer for producing a component equal to the difference between the signal and the variations therefrom introduced by film processing, and a network connected to said distortion generator for combining said component with said phase shifted signal before impression on a photographic film.



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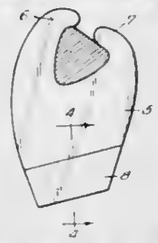
**2,647,170**
**SOUND RE-RECORDING METHOD AND SYSTEM**
**Kurt Singer, North Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware**
**Application August 22, 1950, Serial No. 180,747**
**9 Claims. (Cl. 179—100.3)**



1. A system for producing a positive sound record from an original positive sound record comprising means for translating said original sound record into electrical currents starting with the tail end of said original sound record, means for translating said electrical currents into light variations, means for impressing a photographic record medium with said light variations in the position on said medium of a normal record with said medium running in the same direction as said original sound record, and means for applying noise reduction to said light variations.

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**2,647,171**
**TELEPHONE SHOULDER REST**
**Sydney E. Harmon, Evanston, Ill.**
**Application May 22, 1950, Serial No. 163,338**
**2 Claims. (Cl. 179—157)**

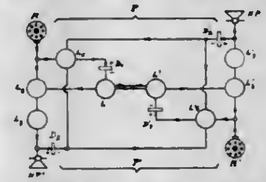


1. A shoulder support for a hand telephone receiver-transmitter set comprising a flat body portion of substantially truncated oval contour having ends in planes converging toward each other, one of said ends being straight, and the other of said ends comprising spaced fingers defining an opening therebetween of substantially triangular shape for receiving the shank of a telephone set, the longitudinal axis of said opening being at an angle to the longitudinal axis of said body portion.

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**2,647,172**
**ELECTRONIC SWITCH**
**Pierre Jeanlin, Paris, France, assignor to Societe Le Teleampliphone, Paris, France**
**Application June 11, 1948, Serial No. 32,325**
**11 Claims. (Cl. 179—170)**

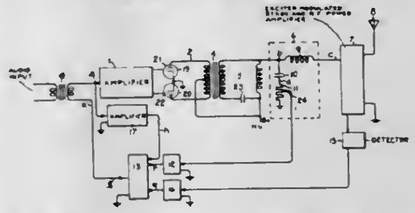
9. In a two-way communication system having a pair of stations respectively provided with a transmitter and a receiver and transmission lines connecting each transmitter at one of the stations with a receiver at the other of the stations, the invention which comprises the combination with said transmission lines of amplification means in each of said lines for amplifying signals being transmitted thereby, a pair of generators respectively operable to generate high frequency oscillations and including means for developing a biasing potential in response to oscillation thereof, means inter-connecting said generators for applying the biasing potential of the generator which is oscillating to the other



to prevent oscillation of the other so that only one of said generators is in oscillation at any one time, means connecting each of said amplification means with one of said oscillators whereby the biasing potential produced in response to oscillation thereof is effective to render the amplification means connected thereto inoperative, and a control means for each of said lines responsive to the impression of a signal to be transmitted over such line for preventing oscillation of the generator means connected to the amplification means in such line to thereby render said last-named amplification means operable to amplify the signal to be transmitted.

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**2,647,173**
**MULTIPLE FEEDBACK SYSTEM**
**Charles A. E. Beurtheret, Paris, France, assignor to General Electric Company, a corporation of New York**
**Application October 28, 1948, Serial No. 57,001**
**In France November 17, 1947**
**4 Claims. (Cl. 179—171)**

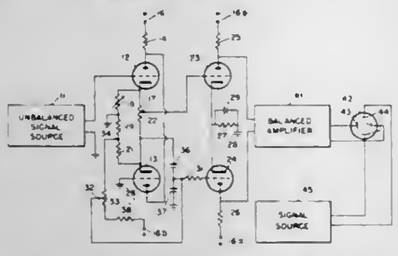


2. An amplifier system for amplifying voltages extending over a band of frequencies, a main amplifier having an input and an output circuit, a load circuit, a coupling network connecting said output circuit to said load circuit, means for deriving from said load circuit a voltage decreasing with increase in frequency beyond said band, means for deriving from said coupling network a second voltage increasing with increase in frequency beyond said band, means for adding said voltages whereby the phase of the resultant voltage does not vary appreciably over a range of frequencies beyond said band, an auxiliary amplifier having an input circuit connected in shunt with the input circuit of said main amplifier and an output circuit, means for combining said resultant voltage and the output from the output circuit of said auxiliary amplifier and applying said combined voltage to the input circuits of said

amplifiers, said auxiliary amplifier having a substantially zero gain at the frequencies of said signal voltages and gain and phase shift characteristics outside of said band which alter the magnitude and phase of feedback applied from the output of said main amplifier to the input thereof, whereby the output of said main amplifier is applied to the input thereof in inverse phase relationship over said band of frequencies to improve the operation of said system for said band of frequencies and the feedback from the output to input of said main amplifier beyond said band is rendered insufficient to cause self-oscillation of said main amplifier.

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**2,647,174**
**ADJUSTABLE BEAM-TRACE-POSITIONING AMPLIFIER**
**Meyer Marón, Passaic, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware**
**Application September 23, 1950, Serial No. 186,474**
**2 Claims. (Cl. 179—171)**




1. An adjustable beam-trace-positioning amplifier for cathode ray oscillographs or the like, comprising a pair of electron tubes, an input circuit for one of said tubes adapted to have a signal applied thereto, means coupling the cathode of said one tube to the cathode of the other of said tubes to transfer said input signal to said other tube, the control electrode of said other tube being grounded, resistance means between each of said cathodes and ground, a second pair of electron tubes, the input electrode of one of said second tube pair being coupled to the cathode of said one tube of said first tube pair, a source of positive voltage, means coupling said source to the resistance means between the cathode of said other tube of said first tube pair and ground, said latter coupling means including a potentiometer and means coupling the variable tap of said potentiometer to the control electrode of the other tube of said second tube pair to adjustably control the bias thereof.

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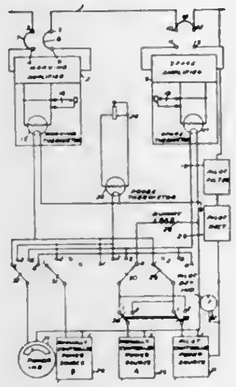
**2,647,175**
**ULTRA-WIDE BAND AMPLIFIER TUBE**
**Charles Sheer, New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**Application May 18, 1951, Serial No. 227,067**
**4 Claims. (Cl. 179—171)**



1. For use in an apparatus for the amplification of high frequency electrical impulses, an assembly suitable for insertion in a vacuum tube and comprising at least three parallel electrodes, said electrodes including a cathode, an anode and a control electrode, part of said control electrode including two diametrically opposed, spaced, semi-cylindrical strips extending substantially the length of said apparatus and disposed between said cathode and said anode, the remainder of said control electrode including a continuous wire helix wound about said strips and making electrical contact therewith, input means for applying said impulses to one end of said control electrode, whereby the impulses are propagated along the length of said semi-cylindrical strips, each strand of said wire helix serving to control the flow of electrons from said cathode to said anode and output means for removing the amplified impulses from said anode.

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**2,647,176**
**ELECTRIC AMPLIFIER WITH AUTOMATIC GAIN CONTROL**
**Charles Trevor Daly, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application June 6, 1951, Serial No. 230,203**
**In Great Britain June 16, 1950**
**5 Claims. (Cl. 179—171)**



1. An electric carrier current signal communication system, of the type in which one amplifier may be substituted for another without producing a transient surge during the changeover, said system comprising a working amplifier, an automatic gain control circuit for said amplifier including a thermistor, a pilot regulator including a power supply source coupled to said gain control circuit, said power source supplying heating current to said thermistor, a pilot signal transmitted with the signal currents for controlling said power supply, whereby the gain of the circuit is determined by the amount of heating current supplied to said thermistor from said power source; a spare amplifier, gain control circuit and thermistor having similar characteristics to the working counterparts, a manually adjustable power supply source coupled to said spare gain control circuit and supplying heating current to said spare thermistor, said manually adjustable power supply supplying substantially the same heating current to said spare thermistor as the pilot controlled power source supplies to said working thermistor, whereby the gain of the two circuits is made substantially the same; and means for switching the spare amplifier in place of the working amplifier.



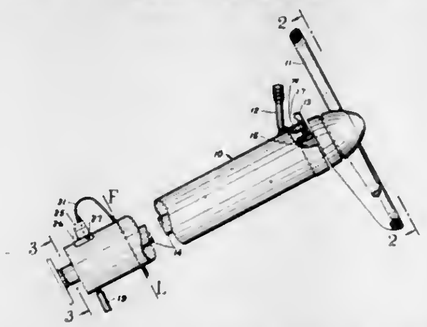
**2,647,177**
**DOUBLE BREAK SWITCH**
**Alfred J. Huck, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware**
**Application February 25, 1950, Serial No. 146,259**
**2 Claims. (Cl. 200—5)**



1. In a switch comprising a cup-shaped base of insulating material having internal mounting shoulders forming substantially a lower cavity and an upper cavity therein, a manually actuated toggle member pivoted in said upper cavity on a pivot support mounted on a portion of the internal shoulders, a pair of spaced terminals mounted on said internal shoulders and extending downward into the lower cavity, said terminals adapted to be interposed in one side of an electric circuit, and engaging means operatively associated with said toggle member extending within said lower cavity and having portions thereof adapted to be selectively engaged and disengaged with said terminals; the improvement and modification of said switch comprising a pair of contactors mounted within said upper cavity upon said mounting shoulders and adapted to be interposed in the other side of said electric circuit, said contactors being resiliently urged into electrical conducting contact with each other, one of said contactors having a portion thereof positioned across the arc of swing of the pivoted toggle member, and said toggle member adapted to engage said portion of said one contactor to separate said pair of contactors.

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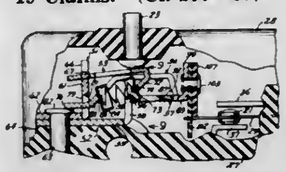
**2,647,178**
**STARTER SWITCH APPARATUS**
**Ralph L. Handy, Mishawaka, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware**
**Application December 5, 1950, Serial No. 199,300**
**1 Claim. (Cl. 200—59)**



For use in an automotive vehicle, a manually engageable transmission gear shifting lever mounted for limited arcuate movement adjacent the upper end of the vehicle's steering column, a starter switch, in circuit with the vehicle's starter motor and arranged to control the energization and deenergization thereof, mounted adjacent the lower end of said steering column; a rotatably mounted tubular shaft member disposed concentrically within said steering column, link means connecting one end of said shaft member to said lever whereby arcuate manipulation of the latter serves to rotate the tubular shaft member correspondingly, detent means arranged with said lever for yieldingly retaining the same and said shaft at a plurality of successive positions in their arcuate travel, a second link means rigidly connected transversely to the other end of said shaft member and arranged to operatively interconnect said shaft member with said switch means in a manner whereby closure of said switch takes place only in response to manipulation of said lever to one end of its path of arcuate travel.

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**2,647,179**
**DOUBLE-POLE DOUBLE-THROW SNAP SWITCH**
**Wilbert A. Martin, Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application January 23, 1950, Serial No. 140,069**
**19 Claims. (Cl. 200—67)**



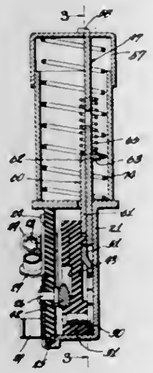
1. In a snap acting device, the combination of a base, a plurality of pairs of spaced stops mounted on said base, a pair of flexible leaf springs, each spring having an end free to move between one of said pairs of stops, means on said base for supporting the opposite end of each leaf spring to provide a cantilever mounting therefor, a double snap acting spring system mounted on said base adjacent the free ends of said leaf springs, said double snap acting spring system comprising two snap mechanisms operatively interconnected so that the snap action of the first snap mechanism effects a successive snap action operation of the second snap mechanism between opposed positions, a driving connection between said second snap mechanism of the double snap acting spring system and the free ends of each of said leaf springs for moving said free ends simultaneously between said stops, said double snap acting spring system in each position of said second snap mechanism being stressed to urge said leaf springs into engagement with their respective stops with a positive pressure until the instant of movement of said second snap mechanism of the double snap acting spring system between its opposed positions, and means for actuating said first snap mechanism of the double snap spring system to effect movement of said free ends of the leaf springs between said stops.

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**2,647,180**
**SWITCHING MEANS**
**William C. Tregoning, Sr., Shaker Heights, Ohio, assignor, by mesne assignments, to Radiart Corporation, Cleveland, Ohio, a corporation of Ohio**
**Application February 23, 1949, Serial No. 77,854**
**2 Claims. (Cl. 200—68)**

1. An electrical switch, comprising: a base; at least two contacts carried by said base and being

insulated from each other; a bridge carrying member having an elongated recess; an elongated conductive member round in cross-section and rotatably seated in said recess; said bridge-



carrying member being rockable about a center so that said conductive member is always in engagement with one of said contacts and may be moved into and out of engagement with the other contact.

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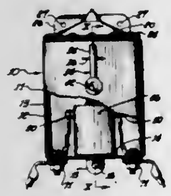
**2,647,181**

## DELAYED ACTION CIRCUIT BREAKER FOR VEHICLES

**Tony R. Couts, Long Beach, Calif., and Earl R. Rankin, deceased, late of South Gate, Calif., by Vera M. Rankin, executrix, South Gate, Calif.; said Vera M. Rankin assignor to said Couts**

**Application July 17, 1952, Serial No. 299,451**

**4 Claims. (Cl. 200—81.5)**



1. In a delayed action control device adapted to be responsive to fluid pressure and arranged to be connected to the intake manifold of an internal combustion engine, the combination of: a hollow housing having a flexible diaphragm forming one wall thereof; a solenoid means, including a movable solenoid element, carried by an opposite wall; terminal means within said housing; a contact member carried by said solenoid element adapted to engage said terminal means in one position to close an electrical circuit; means normally biasing said solenoid element to a second position to open said circuit; means connecting said solenoid element to said diaphragm for moving said element in response to movement of said diaphragm and including, a hollow sleeve member carried by said element and provided with a longitudinally extending slot; a rod extension carried by the diaphragm and having an end portion slidably received in said sleeve member; a pin carried by said end portion and cooperable with said slot; spring means normally biasing said rod extension and pin outwardly; and valved means connecting said chamber and the intake manifold.

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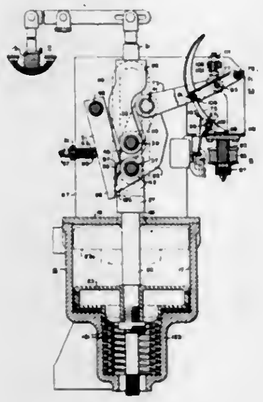
**2,647,182**

## CIRCUIT BREAKER MECHANISM

**Fritz E. Florschutz and Carl G. Lentjes, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application August 5, 1950, Serial No. 177,816**

**15 Claims. (Cl. 200—82)**



15. A high speed operating mechanism for a circuit breaker comprising a cylinder, a piston in said cylinder operable to close said breaker, a piston rod attached to said piston, a pivoted latch, biasing means biasing said latch to latching position in which said latch engages said piston rod and releasably restrains said piston in closed position, a breaker-operating rod disposed in axial alignment with said piston rod, a main toggle comprising a pair of toggle links pivotally connected together, pivot means pivotally connecting one end of said toggle to said breaker operating rod and the other end of said toggle to said piston rod, means guiding said pivot means for movement in a straight line, a tripping toggle connected to said main toggle for normally restraining said main toggle in thrust-transmitting position, one of said main toggle links being in compression and the other of said main toggle links being in tension in the thrust-transmitting position of said main toggle, trip means normally restraining said tripping toggle in restraining position and operable in response to abnormal circuit conditions to release said tripping toggle to effect opening movement of said breaker free of said piston, spring means biasing said breaker open and operable upon release of said tripping toggle to move said breaker to open position, one of said main toggle links upon release of said main toggle engaging and moving said latch to unlatching position to release said piston, spring means for moving said piston and piston rod in opening direction to effect high-speed resetting of said tripping toggle and resetting of said main toggle to thrust-transmitting position, and said biasing means moving said latch into latching engagement with said piston rod when said breaker is moved to closed position.



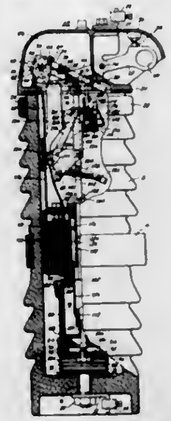
**2,647,183**

## CIRCUIT INTERRUPTER

**James M. Wallace, East McKeesport, and Alvin W. Ogg, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Continuation of application Serial No. 540,192, June 14, 1944. This application July 27, 1948, Serial No. 40,958**

**11 Claims. (Cl. 200—89)**



4. In an automatic reclosing circuit breaker, separable contacts, electroresponsive means having lost motion with respect to said contacts so as to be movable in response to a predetermined electrical condition of the circuit a predetermined distance before causing separation of said contacts, said contacts being biased in a direction to automatically reclose in response to a circuit interrupting operation and to provide a predetermined contact pressure when closed, a spring connecting said electroresponsive means and one of said contacts and adapted to be moved overcenter in response to predetermined movement of said electroresponsive means to separate said contacts at least a predetermined distance and at a rate independent of the rate of movement of said electroresponsive means and the amount of force exerted thereby, means independent of said closing bias to move said spring overcenter in the opposite direction to permit reclosure of said contacts, and time delay means for delaying movement of said spring overcenter at least in one direction.

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**2,647,184**

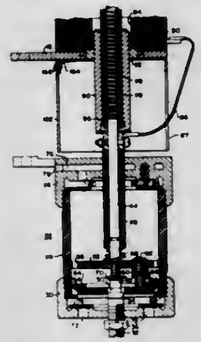
## TIME-DELAYED CIRCUIT BREAKER

**James M. Wallace, East McKeesport, Pa., and Alfred R. McClung, Smithers, W. Va., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application May 16, 1950, Serial No. 162,174**

**16 Claims. (Cl. 200—89)**

9. An automatic reclosing circuit breaker comprising, a container for an arc extinguishing liquid, separable contacts mounted in said container beneath the liquid level thereof, means responsive to a predetermined condition of the circuit for separating said contacts to interrupt the circuit, means responsive to a circuit interrupting operation to automatically close the contacts, liquid time delay means in said container operable in opposite directions to control opening and closing of said contacts, said time delay means having vent means through which liquid is expelled during a circuit opening operation and is taken in during a circuit closing operation, an arc chamber for said contacts which is closed at least during a circuit interrupting operation, means



for venting said chamber during a circuit closing operation and gas baffle means in said container below the liquid level thereof for preventing gases vented from said arc chamber from entering the liquid inlet of said time delay means.

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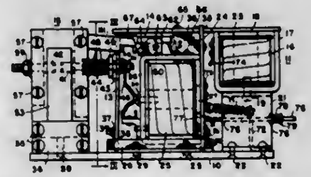
**2,647,185**

## ELECTROMAGNETIC RELAY

**Ralph D. Jessee, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application September 29, 1950, Serial No. 187,571**

**7 Claims. (Cl. 200—98)**



1. An electromagnetic relay comprising a movable contact lever carrying contacts adapted to engage stationary contacts, a first movable armature member, a first coil adapted to actuate said first armature member, a second armature member movably mounted on the first armature member, means for biasing said second armature member to a position to engage the contact lever to move the contact lever when the first armature member is actuated by energization of said first coil, and a second coil adapted to actuate the second armature member to a position free of the contact lever.

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**2,647,186**

## CIRCUIT BREAKER

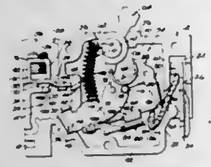
**Thomas M. Cole, New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J., a corporation**

**Application November 15, 1949, Serial No. 127,433**

**54 Claims. (Cl. 200—116)**

1. In an automatic circuit breaker having a stationary contact, a movable contact engageable and disengageable therewith, actuating means for operatively effecting the engagement thereof and a thermally-responsive bi-metallic strip for effecting the disengagement thereof; a uni-planar movable contact member on which said movable contact and said strip are bodily

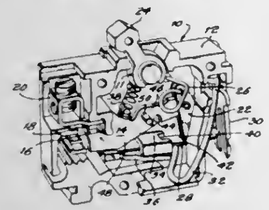
carried, said actuating means being pivotally carried thereby and being in normal engagement



with said strip to prevent relative pivotal movement.

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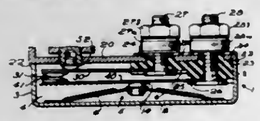
2,647,187
## CALIBRATION OF AUTOMATIC CIRCUIT BREAKERS
**Thomas M. Cole, New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J., a corporation of Delaware**
**Application March 2, 1951, Serial No. 213,591**
**13 Claims. (Cl. 200—116)**



1. In an automatic circuit breaker, a movable contact member, said movable contact member having an actuator movably mounted on a part thereof and having a current-responsive device releasably engageable with said actuator for releasably latching said actuator to said member for movement of said member by said actuator, means for use in calibrating the circuit breaker comprising provision in said part of said member of means to facilitate displacement of said part in said member and thereby move said actuator in relation to said current-responsive device for adjusting the releasably engaged portions of said actuator and said current-responsive device.

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2,647,188
## ELECTRICAL SWITCH CONTACT MEANS
**Edward J. Poitras, Holliston, Mass.**
**Original application April 19, 1946, Serial No. 663,281. Divided and this application January 12, 1950, Serial No. 138,130**
**5 Claims. (Cl. 200—122)**



1. An electrical switch having in combination with an insulating support a pair of electrical contact-carrying metallic leafs of longitudinal columnar rigidity, said leafs relatively movable laterally to and from each other to close and to open the contacts, actuating means external to the leafs controlling said leaf movement, said leafs respectively being of such markedly different thermal expansibility as to effect a shearing action between the contacts under heat change at and commonly ambient alike to both leafs.

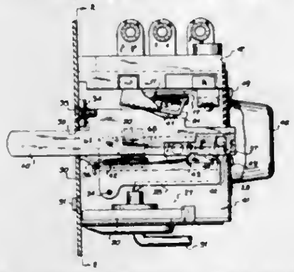
2,647,189
## THERMALLY ACTUATED ELECTRIC SWITCH
**Seymour M. De Puy, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application November 29, 1951, Serial No. 258,825**
**9 Claims. (Cl. 200—138)**



1. A thermally responsive snap action device comprising a flatly disposed bimetal member in the form of a cardioid, said cardioid having a centrally disposed aperture separating the bimetal member into a first portion adjacent the lobes of said cardioid and a second portion relatively distant from said lobes, an indentation formed in said bimetal member for stressing said member into a dished formation whereby one surface of said member is generally concave and the other surface is generally convex, and means for securing a point on said first portion to a support, the metal adjacent the concave surface of said bimetal member having a different temperature coefficient of expansion than the metal adjacent the convex surface whereby said member snaps from a first position in which said one surface is generally concave to a second position in which said one surface is generally convex upon a change in the temperature of said member to a predetermined value.

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2,647,190
## CONTROL APPARATUS
**John Liebermann, Columbus, Ohio, assignor to Ranco Inc., Columbus, Ohio, a corporation of Ohio**
**Application March 28, 1951, Serial No. 218,015**
**3 Claims. (Cl. 200—140)**



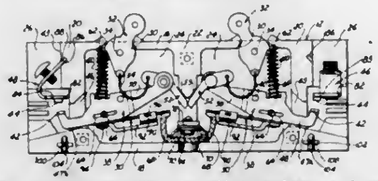
3. In a control apparatus comprising a control said actuating member projecting through said device, a housing for the control device having openings in the front and rear walls thereof, an elongated reciprocable actuating member guidable longitudinally by the edges of the openings in said walls and having the forward and rearward portions thereof projecting from said openings respectively, the rearward portion of said member being movable laterally in the opening in said rear wall, said actuating member operable to actuate said control device to one control position when moved to a rearward position and to a second control position when moved to a forward position, a spring biasing said member toward its forward position, said member having a notch therein adapted to receive an edge portion of the opening in said rear wall when said actuating member is moved to said rearward position, a lever pivoted on an axis parallel to said



opposite walls, said lever extending longitudinally of said actuating member and having a part engageable with said member, a spring connected to said lever and urging the latter about its pivot to tend to move said part thereof from said member, means including a rotatable member supported by said rear wall to adjust the tension of the last mentioned spring, an expansible thermally responsive element adapted to urge said lever against the action of the last mentioned spring to cause said lever to move against said member and shift said member laterally and release the notch therein from engagement with said portion of said one wall, and a cover detachably connected with said housing and enclosing said actuating member projecting through said spring adjusting means and the portion of rear wall.

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2,647,191
## CIRCUIT BREAKER
**Harold Albert Humpage, Bloomfield, N. J., assignor, by mesne assignments, to Federal Electric Products Company, Newark, N. J., a corporation**
**Original application May 24, 1945, Serial No. 595,556, now Patent No. 2,459,427, dated January 18, 1949. Divided and this application July 31, 1948, Serial No. 41,837**
**16 Claims. (Cl. 200—168)**



3. In an automatic circuit breaker, a housing consisting essentially of two symmetrical parts formed of insulation material, each of said parts having an outer side wall and having thickened edge portions projecting from the inner side of the side wall and extending peripherally thereof and abutting the similar thickened edge portions of the other side wall thereby forming a chamber internally of the housing, the thickened portions of the two casing parts having opposed recesses therein defining a guide slot, a circuit breaker mechanism mounted in said chamber and including a movable contact member movable in said slot and guided thereby, said side walls having integral portions projecting outwardly beyond said guide slot and defining an external open recess at one end of the housing, and a stationary contact member mounted in said external recess and disposed entirely externally of said chamber beyond said guide slot, said stationary contact member partitioning said recess to provide an arcing chamber therein, and a terminal connector member positioned in said recess and secured directly to said stationary contact member in said external arcing chamber, said stationary and movable contact members having companion contacts which engage and disengage each other in said recess in the operation of the circuit breaker.

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2,647,192
## ELECTRICAL ELEMENT
**Louis H. Berkelhamer, Chicago, Ill., assignor to David T. Siegel, Glencoe, Ill.**
**Application December 18, 1948, Serial No. 65,989**
**3 Claims. (Cl. 201—64)**

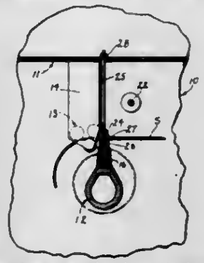
1. A wire coil electrical resistive element comprising a base, a flexible uncovered wire coil wound on and in direct mutual contact with said base, and an insulating material comprising a mix of silicone and powdered mineral filler forming the immediate insulating coating both for the wire coils and for the base and heat cured thereon



at a temperature materially below the firing temperature of vitreous enamel to adhere to the coils and to the base therebetween for positioning the coils and providing physical resistance to abrasion and thermal shock.

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2,647,193
## APPARATUS FOR PRODUCING TUBULAR MEMBERS
**Clyde E. Coates and Arthur L. Williams, Warren, Ohio, assignors to Federal Machine & Welder Company, Warren, Ohio, a corporation of Ohio**
**Application December 28, 1951, Serial No. 263,928**
**6 Claims. (Cl. 219—6)**



6. Apparatus for producing tubular members from sheet material comprising a support, a pair of arms extending from said support in spaced-apart relation, a seam welding wheel carried by each arm in position spaced from said support, roll means for forming the sheet material to tubular form and for disposing such tubular form about one of said arms between the weld wheel carried thereby and said support, a Z bar carried by said one arm and having means for receiving the contiguous edge surfaces of said tubular form when the latter is disposed about said one arm and holding said edge surfaces in predetermined relation, said receiving means being elongated in the longitudinal direction of said one arm, providing for feed of said tubular form to said weld wheels, said edge surfaces leaving said receiving means and entering between said weld wheels and being joined by pressure and heat effected by said weld wheels, and brace means extending between said arms for opposing deflection thereof caused by operation of said weld wheels, said Z bar holding said tubular form clear of said brace means.

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WITHDRAWN

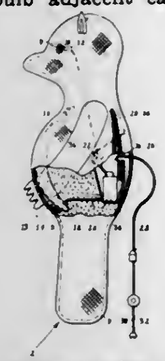
2,647,194

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2,647,195
## SLEEPER TOY
**Neva Iola Broyles, Cashmere, Wash.**
**Application October 29, 1951, Serial No. 253,694**
**1 Claim. (Cl. 219—19)**

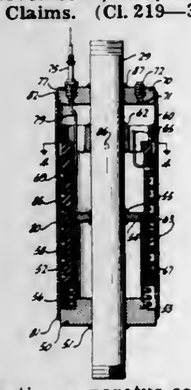
A device of the character described comprising an outer casing formed as a body portion with

a head portion and having an opening in its body portion, means for closing said opening, an intermediate wall member adjacent said opening having its edges connected to the inner side of said casing so as to subdivide the interior of said casing into two compartments one of which is accessible through said opening, an electric heating pad being secured to the inner side of a portion of said casing in spaced relation to said opening, transparent eye members being provided in the head portion of said casing, an electric light bulb adjacent each eye member



being provided in the head portion of said casing, a portable source of current connected to each of said light bulbs being contained in that compartment which is accessible through said opening, a cable constructed and arranged for being connected to a source of current and being in circuit with said heating pad and having a coiled portion which normally is contained in said last-mentioned compartment, and stuffing material being contained in that portion of the interior of said casing which is not occupied by said last-mentioned compartment.

**2,647,196**
**APPARATUS FOR HEATING OIL WELLS**
**Clayton A. Carpenter, Wilmington, and Richard S. Crog, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California**
**Application November 6, 1950, Serial No. 194,270**
**5 Claims. (Cl. 219—33)**



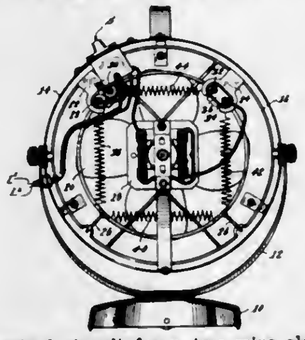
1. A well heating apparatus comprising a central oil-conducting conduit; an outer heat-radiating shell; an upper closure; a lower closure; said upper and lower closures providing a fluid-tight seal between said conduit and said shell, and maintaining said shell coaxially disposed around and spaced away from said conduit; a tubular coil-form disposed between said shell and said conduit, said coil-form having spiral grooves cut into its outer surface to receive an electrical resistance heating coil and being formed of an electrical- and heat-insulating material; a coil-form retaining member affixed to said conduit adjacent said upper closure and receiving the upper end of said coil-form; resilient means disposed between the lower end of said coil-form and said lower closure; an electrical resistance heating coil wound in the grooves of said coil-form; and sealing means for passing an insulated electrical conductor through the outer surface of said apparatus to said heating coil.

**2,647,197**
**RADIATOR**
**Henri George, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France**
**Application August 6, 1947, Serial No. 766,853**
**In France April 25, 1941**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires April 25, 1961**
**21 Claims. (Cl. 219—34)**



1. A radiator element, constructed for heating by electrical current distributors, including a rotary, flanged circular support, a mounting within said support, an insulating bed carried by the mounting, an electrical resistance plate carried by the bed, and an insulating ring surrounding the plate.

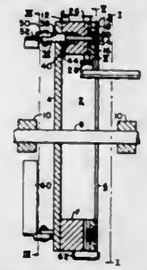
**2,647,198**
**CONTROL CIRCUIT FOR AIR FAN HEATERS**
**Max E. Lautner, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware**
**Application March 10, 1951, Serial No. 214,899**
**3 Claims. (Cl. 219—39)**



3. A control circuit for a two wire electrically energizable air fan heater comprising a three-blade, three-position switch having five contacts, said blades being connected to the two supply wires and said contacts being connected to the fan and a heating element for controlling them by selectively connecting a minimum portion of the heating element in series with the fan for high speed operation of the fan in one position of said blades, connecting a major portion of the heating element in parallel with the fan and in series with said minimum portion of the heating element for low speed operation of the fan when heating the air circulated thereby in another position of said blades or disconnecting both line wires from the fan and heater in still another position of said blades.



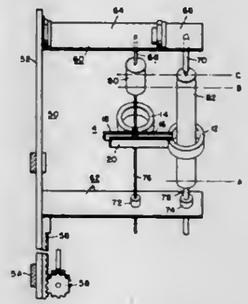
**2,647,199**
**INDUCTION HEATING EQUIPMENT**
**Edward M. Wharff, Jr., Ellicott City, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 12, 1949, Serial No. 92,901**
**7 Claims. (Cl. 219—47)**



4. Means for successively inductively heating a plurality of work-objects, comprising, in combination, a carrier comprising an annular work-receiving member, support-means carrying said carrier for rotation about a horizontal axis, said annular member comprising a plurality of work-receiving holes spaced around it, each of said holes passing radially through it, and being arranged to receive a work-piece with a portion of the work-piece protruding from said annular member, said carrier comprising a plurality of clamp-means associated with said plurality of holes, each clamp-means comprising a clamp-bar biased to clamp a work-piece in its associated hole, and comprising an actuator-bar operable for actuating a clamp-bar against its bias to unclamp an associated work-piece, each of said actuator-bars having a bar-portion extending out from a side of said annular member, the last said side being an upright side, a first release bar of limited extent arranged along said upright side at the upper part of the path of rising points on said annular member, said release bar also being in the path of said bar-portions for actuating the actuator-bars thereof, a second release bar of limited extent arranged along said upright side at the lower part of the path for falling points on said annular member, and an induction heating means along a circular side of said annular member and in the space between said first and second release bars, said induction heating means being adapted to provide a magnetic field in the path of movement of said protruding portions of said work-pieces.

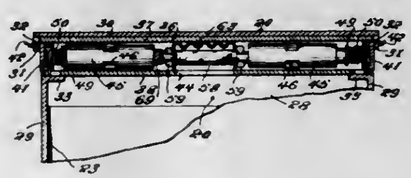
**2,647,200**
**CONTROLLED INDUCTION HEATING WITH SCANNING**
**John A. Redmond, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 14, 1949, Serial No. 93,276**
**6 Claims. (Cl. 219—47)**

3. An induction-heating coil-means for heating a piece of work, comprising a pair of separate coils, each comprising at least one turn; a conductor extending from an end of a first coil to an end of the second coil; relatively insulated conductors extending from the other ends of said coils; said first coil being an induction-heating coil adapted to receive a piece of work to be inductively heated; a piece of metal; said second coil being adapted to receive a portion of said piece of metal axially therein; said portion being diametrically smaller than said second coil so



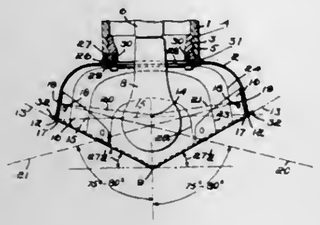
that it does not touch said second coil; said portion having an outer surface which is other than a continuous surface generated by parallel straight line generatrices; and supporting means having supporting means for supporting said piece of metal and piece of work; said supporting means being relatively movable with respect to said coils, for relatively moving said piece of metal and work with respect to the associated coils.

**2,647,201**
**LADY'S LIGHTED HANDBAG**
**Joseph A. Contento, Albany, N. Y.**
**Application November 17, 1950, Serial No. 196,332**
**3 Claims. (Cl. 240—6.45)**



1. In a lady's, illuminated handbag, a pair of sections hingedly connected together, each of said sections including a side wall, a pair of spaced parallel end walls and a top wall, coacting locking means on said top wall for maintaining said sections in their closed position, a pair of apertured ears extending downwardly from the top wall of one of said sections, lips extending inwardly from the end wall of said one section, a housing supported on said lips, spring latches projecting from the ends of said housing into engagement with said apertured ears, said housing including a top and bottom member, and a back member, said bottom member being provided with a slot for the passage therethrough of light rays, a pair of batteries arranged in said housing, and extending longitudinally therethrough a light bulb interposed between said pair of batteries, a corrugated mirror positioned rearwardly of said bulb, a metal strip electrically connecting said batteries together, and a switch for actuating said light bulb.

2,647,202
**LUMINAIRE FOR STREET LIGHTING**
William B. Elmer, Boston, Mass.
Application March 24, 1950, Serial No. 151,652
5 Claims. (Cl. 240—25)



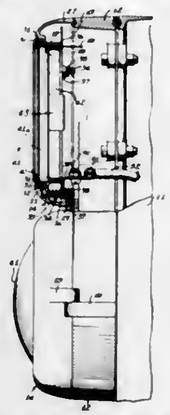
1. A street lighting fixture comprising a one-piece reflector having a general ovoid shape, means supporting said reflector with its major axis extending horizontally, the entire length of each side of said reflector from one end to the other of its major axis being in a plane which contains said axis and inclines upwardly and outwardly therefrom and thereby provides an edge to which a flat light-transmitting plate can be secured and giving to said reflector a crescent shape when viewed from the side, a light unit, means supporting said light unit with its light center in a transverse diametrical line connecting the highest points in the curvature of each side edge, the inner surface of the reflector throughout a narrow elongated zone adjacent each side edge having a specular character and being straight in a direction perpendicular to the longitudinal top and bottom edges of said zone, the vertical slope of the reflector throughout each elongated zone being inclined to the vertical at an angle to reflect a beam of light from the light unit in the general direction of said transverse diametrical line but downwardly at an angle of approximately 75° to 80° from the vertical, the flat or straight characteristic of each specular zone in a vertical direction producing a light beam which diverges slightly in a vertical direction.

2,647,203
**LIGHT REFLECTOR**
Harold E. Smith, Lykens, Pa.
Application August 2, 1950, Serial No. 177,173
18 Claims. (Cl. 240—41.1)



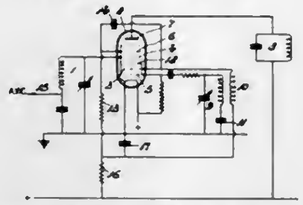
1. A light reflector comprising, an ovoidal surface having a proximate focus which is a point and a remote focus which is a straight line, said surface being composed of an infinite series of ellipses all having a common ordinate which is coincident with said remote focal line and lying in planes which make successively larger angles with a directrix plane containing the remote and proximate foci.

2,647,204
**TWIN SEALED-BEAM TYPE HEADLIGHT WITH ALIGNABLE AND REMOVABLE LAMP UNITS**
Thomas E. McDowell, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a corporation of New Jersey
Application July 14, 1950, Serial No. 173,805
2 Claims. (Cl. 240—41.35)



1. In a headlight assembly, a casing means providing an opening, a lamp door for closing said opening and comprising a generally annular ring-like member hinged at one side and latched at the other side to said casing means, a sealed beam lamp retainer ring carried by said door to receive a sealed-beam type lamp, means to lock the lamp in the retainer ring in firm assembly with the door, and a plurality of circumferentially spaced axially adjustable connections between said door and said ring, the beam projected by the sealed beam type lamp being adjustably aligned relative to said door upon adjusting said connections, said connections comprising a plurality of bolts, a resilient member around each of said bolts and fasteners on said bolts positioning said retainer ring on said bolts against said resilient members to vary the alignment of the sealed-beam type lamp and the beam characteristics of the headlight assembly.

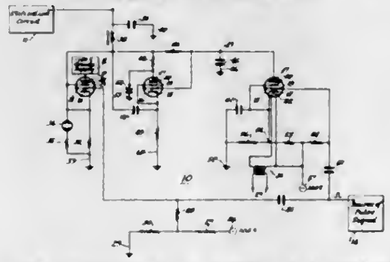
2,647,205
**CIRCUIT-ARRANGEMENT FOR FREQUENCY TRANSFORMATION OF HIGH-FREQUENCY OSCILLATIONS**
Willem Wigger Boelens and Pieter Zijp, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 2, 1950, Serial No. 177,142
In the Netherlands August 9, 1949
2 Claims. (Cl. 250—20)



1. An electrical circuit arrangement for mixing a first wave and a second wave to produce an intermediate frequency wave, comprising an electron discharge tube having in the order named a cathode, first, second, third and fourth grid electrodes and an anode, circuit means intercoupling said cathode and said first and second grid electrodes to generate said first wave, means to apply said second wave to said third grid electrode, means to apply an automatic volume control voltage to said third grid electrode, a source of positive potential, a resistance element intercoupling said fourth grid electrode and said source of positive potential, a capacitive element intercoupling said fourth grid electrode and said second grid electrode to suppress variations in frequency of said first wave upon variation of said control voltage, and an output circuit coupled to said anode.

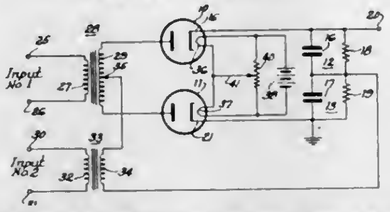


2,647,206
**ELECTRONIC SWITCHING DEVICE**
Robert B. Trousdale, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application January 27, 1950, Serial No. 140,929
27 Claims. (Cl. 250—27)



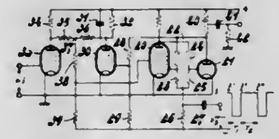
1. In a communication system, a source of potential, utilization means, an electron discharge device having an anode a cathode and a control electrode, the anode-cathode path of said discharge device interconnecting said potential source with said utilization means, a signal source connected to said control electrode, said device being rendered conductive in response to the production of a signal at said signal source thereby to connect said source of potential to said utilization means, and means jointly responsive to the flow of current through said discharge device and the continued absence of a signal at said signal source for a predetermined time interval for establishing an electrical quantity for rendering said discharge device non-conductive.

2,647,207
**RECTIFIER BALANCING CIRCUIT**
James E. Hawkins and Robert S. Finn, Tulsa, Okla., assignors to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware
Application June 27, 1950, Serial No. 170,670
3 Claims. (Cl. 250—27)



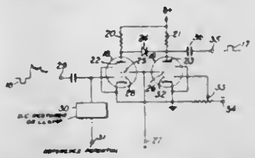
1. A rectifier balancing circuit, comprising a pair of opposed rectifiers each provided with a filament, a unidirectional potential source of filament potential, means connecting the filaments of said rectifiers in series across said source, a potentiometer connected across said series connected filaments and having a substantial shunting effect thereon, said potentiometer being provided with an adjustable arm, and means including a connection from the arm of said potentiometer to the common junction of said filaments for varying the filament potentials of said rectifiers in opposite senses, thereby to equalize the cathode emissions of said rectifiers.

2,647,208
**ELECTRIC CIRCUIT-ARRANGEMENT**
Frank de Jager, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 20, 1951, Serial No. 216,487
In the Netherlands April 28, 1950
11 Claims. (Cl. 250—27)



1. A trigger-circuit arrangement comprising first and second electron discharge tubes each having a cathode, a grid and an anode, means cross-coupling said tubes whereby said arrangement exhibits two normal states of equilibrium, in one state of which said first tube is conductive and said second tube non-conductive, in the other state of which the converse relationship exists, means to apply a control voltage to one of said tubes to flip said arrangement from one normal equilibrium state to another, and a common grid circuit coupled to the grids of said tubes, said common circuit including a bias voltage source having a value at which said tubes are both driven into equal anode current conditions representing a third state of equilibrium, and a pulse generator connected in series with said source and producing rectangular switching pulses having an amplitude and polarity at which said trigger arrangement alternates between said third state and one of said normal states.

2,647,209
**VIDEO CLIPPING CIRCUIT**
Irving A. Krause, Jersey City, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware
Application August 30, 1951, Serial No. 244,397
1 Claim. (Cl. 250—27)

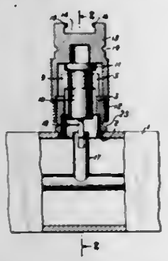


A clipping circuit comprising a bridge network having two multi-electrode vacuum tubes of substantially identical operating characteristics connected in circuit as the first and second legs of the network, each tube having anode, cathode, control grid and screen grid electrodes, two resistors of substantially equal value connected to

the anodes of said tubes to form the third and fourth legs of the network, a diode connected across the bridge circuit at said anode connections, a source of anode voltage connected to the legs containing said resistors, a first source of biasing voltage connected to the screen grids of both said tubes, a second source of biasing voltage, means connecting the control grid of the tube of said second leg to said second source of biasing voltage, a signal input and D. C. restorer circuit, and means connecting the control grid of the tube of said first leg to said input circuit.

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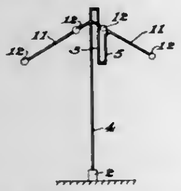
**2,647,210**
**CRYSTAL CAP AND HOLDER**
**Charles W. Davis, Nutley, N. J., assignor to Federal Telecommunication Laboratories, Inc., Nutley, N. J., a corporation of Delaware**
**Application May 11, 1951, Serial No. 225,893**
**3 Claims. (Cl. 250—31)**



1. A holder for crystal units of cylindrical shape having a laterally projecting rim at one end, comprising a hollow cylindrical member having circumferentially spaced fingers at one end thereof to receive said crystal unit with the rim of the unit engaged by the upper ends of certain of said fingers, other of said fingers being shorter to provide a space between such certain fingers and the rim of the unit, and a crystal gripping element having inwardly projecting portions receivable in the spaces between the short fingers and the rim whereby the crystal may be gripped for removal from said member.

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**2,647,211**
**RADIO ANTENNA**
**Lynne C. Smeby, Washington, D. C.**
**Application January 11, 1949, Serial No. 70,333**
**7 Claims. (Cl. 250—33)**



4. An antenna system comprising a substantially vertical linear main conductor, an auxiliary conductor connected to the upper end of said main conductor and having at least one leg extending downwardly from said upper end of the main conductor in spaced parallel relation thereto, and capacity loading means connected to said auxiliary conductor and having substantial extension in a horizontal plane.

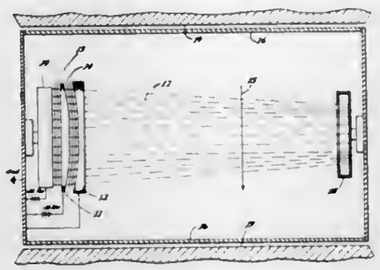
**2,647,212**
**ANTENNA SYSTEM**
**Carl B. H. Feldman, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application January 17, 1946, Serial No. 641,844**
**14 Claims. (Cl. 250—33.63)**



1. In combination, a parabolic reflector, a wave guide extending along the latus rectum of said reflector and comprising slotted elements the intersection of which forms a primary antenna aperture facing said reflector and the relative movement of which repeatedly moves said aperture at a constant speed and in the same direction along a line perpendicular to the reflector axis and including the reflector focus, and means for producing relative movement of said elements.

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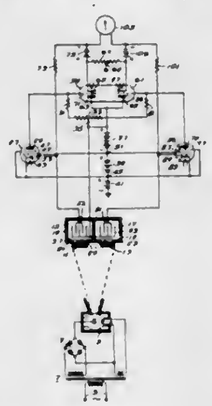
**2,647,213**
**ISOTOPE SEPARATING APPARATUS**
**William E. Parkins, Los Angeles, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**Application June 14, 1946, Serial No. 676,650**
**5 Claims. (Cl. 250—41.9)**



1. In electromagnetic isotope separating apparatus, in combination, an evacuated tank, means for establishing a magnetic field traversing said tank in a given direction, an ion source disposed within and at one end of said tank and having an elongated slot for the egress of ions, said slot extending in the direction of the magnetic field, means adjacent said source for accelerating and projecting positive ions emanating from said slot through the magnetic field in a direction normal thereto and in the form of a ribbon beam elongated in the direction of said field, said last named means comprising two spaced electrodes having slots generally coextensive with the slot of said ion source and also elongated in the direction of the magnetic field, the facing surfaces of said two electrodes being concave toward said ion source at their end portions only, and means for maintaining the outer of said electrodes at a negative potential with respect to said ion source and at a positive potential with respect to said inner electrode, and ion beam receiving means disposed within and at the opposite end of said tank, said receiving means also being elongated in the direction of the magnetic field.



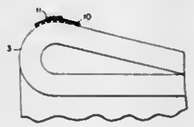
**2,647,214**
**INSPECTING APPARATUS**
**Gaylord W. Penney, Pittsburgh, Pa., and Harold A. Thomas, College Station, Tex., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application April 4, 1947, Serial No. 739,516**
**4 Claims. (Cl. 250—83.6)**



1. Apparatus for examining an object comprising means on one side of said object for projecting a beam of X-rays toward said object, an ionization chamber on the other side of said object for receiving X-rays of said beam after passage thereof through said object whereby an ion current is produced in said chamber, a direct current amplifier connected to said chamber to amplify said ion current, a negative feedback circuit between the output and input circuits of said amplifier including components having dimensions causing the overall voltage amplification to be of the order of unity, and a current measuring device in said output circuit.

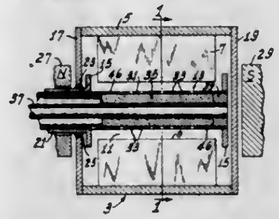
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**2,647,215**
**SPACE HEATING MEANS FOR DYNAMO-ELECTRIC MACHINES**
**Robert W. Eggleston, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 18, 1951, Serial No. 242,517**
**3 Claims. (Cl. 310—72)**



1. A dynamo-electric machine having a stator member and a rotor member, said stator member having a slotted core, a stator winding in the slots of the core, said stator winding having end portions extending beyond the ends of the core, and an electric heating element disposed on at least one of said end portions of the stator winding, said heating element comprising resistance wire adapted to carry a substantial current to produce sufficient heat to prevent condensation of moisture on the winding when the machine is not energized.

**2,647,216**
**DISPENSER CATHODE**
**Barremore B. Brown, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware**
**Application April 1, 1950, Serial No. 153,383**
**8 Claims. (Cl. 313—157)**



1. A dispenser-type cathode comprising a sleeve of refractory sheet metal having a smooth bare exterior surface and a plurality of apertures therethrough, said sleeve containing a compact mass of electron-emissive material including thoria in contact with its interior surface, and electrostatic shield elements mounted on and surrounding the ends of said sleeve, the perforations of said sleeve being spaced substantially from said shields to prevent migration of thoria to said shields during operation of said cathode.

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**2,647,217**
**ELECTRIC DISCHARGE LAMP**
**Ted E. Foulke, Highland Heights, Ohio, assignor to General Electric Company, a corporation of New York**
**Application November 29, 1951, Serial No. 258,911**
**5 Claims. (Cl. 313—185)**



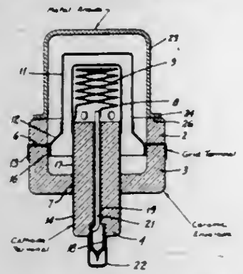
1. An ultraviolet-emitting gaseous electric glow discharge lamp comprising a sealed light-transmitting envelope having electrodes sealed therein and spaced relatively closely for a glow discharge therebetween and containing a fixed gas filling consisting of substantial proportions of argon, nitrogen and helium at a total pressure in the range of about 10–25 mm.

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**2,647,218**
**CERAMIC ELECTRON TUBE**
**Harold E. Sorg, Redwood City, Hubert H. Eaves, Palo Alto, and Donald F. Drieschman, Los Altos, Calif., assignors to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California**
**Application December 26, 1950, Serial No. 202,666**
**6 Claims. (Cl. 313—247)**

1. An electron tube comprising an envelope having upper and lower side sections of ceramic, a stem section of ceramic extending through said lower section, a grid in the envelope supported by a side section, a cathode in the envelope supported by the stem section, a metallic bond uniting said upper and lower side sections, a grid terminal on the envelope connected to the grid through said metallic bond, a metallic bond uniting the lower side and stem sections,

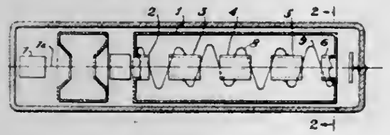
and a cathode terminal on the envelope connected to the cathode through the last mentioned



metallic bond, and a metal anode bonded to and extending beyond the upper side section, said anode forming the upper portion of the envelope.

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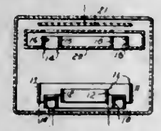
**2,647,219**
**CATCHER CIRCUITS FOR VELOCITY MODULATION TUBES**
**Emile Touraton, Paris, and Claude Dumousseau, Pierrefitte, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application November 9, 1948, Serial No. 59,154**
**In France November 15, 1947**
**12 Claims. (Cl. 315—3)**



1. In a wide band amplifier tube having means for producing an electron beam and means for bunching the electrons of said beam, a coaxial catcher circuit positioned to receive the electron bunches and absorb energy therefrom, comprising in combination a cylindrical member constituting the outside conductor, a plurality of cylinders mounted coaxially inside the first said cylinder at substantially equal distances one from the other and helically wound conductors of substantially one turn each connecting the said cylinders one to the other.

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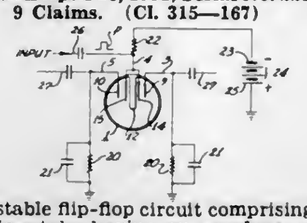
**2,647,220**
**ELECTRON TUBE STRUCTURE FOR THE PRODUCTION OF ANNULAR BEAMS OF ELECTRONS**
**Leonard Francis Broadway, Ickenham, Norman Charles Barford, Southend, and Albert Frederick Pearce, Hampton Hill, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain**
**Application October 5, 1946, Serial No. 701,522**
**In Great Britain June 25, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires June 25, 1963**
**11 Claims. (Cl. 315—5)**



1. An electron gun for generating an annular beam of electrons comprising an annular cathode, an annular accelerating electrode means spaced from and axially aligned with said cathode to define an annular beam path therebetween, and an annular shield electrode means coaxially disposed adjacent said cathode, one of said cathode and said shield electrode means including inner and outer annular parts located on opposite sides of said annular beam path in the region extending from said accelerating electrode means to and including said cathode, said parts being asymmetrical with respect to the generatrix of said annular beam, whereby an outwardly-directed electric field will be established across said annular beam during operation of said electron gun for preventing spreading of said annular beam.

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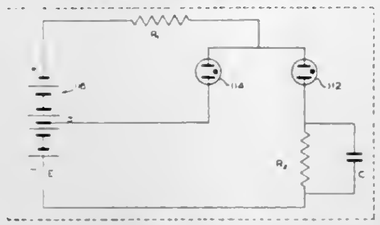
**2,647,221**
**POLY-ANODE FLIP-FLOP TUBE**
**Charles R. Williams, Hawthorne, and Chris S. Andersen, Bell, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California**
**Application April 16, 1951, Serial No. 221,256**
**9 Claims. (Cl. 315—167)**



8. A bi-stable flip-flop circuit comprising a cold cathode glow tube having an envelope containing a filling of gas at glow discharge pressure, a pair of anodes and a cold cathode positioned between said anodes, glow preventing means separating said cathode into separate cathode glow areas within said envelope, with a cathode glow area facing each anode, means for striking a glow between one anode and the facing cathode glow area, means for maintaining a potential difference between the active and inactive anode, and means for applying a positive input pulse to said cathode to switch said glow between the other of said anodes and the other of said cathode areas.

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**2,647,222**
**TOY**
**Robert T. Nieset, New Orleans, La., assignor to Bierne Associates, Inc., New Orleans, La., a corporation of Louisiana**
**Application July 10, 1950, Serial No. 172,879**
**1 Claim. (Cl. 315—228)**

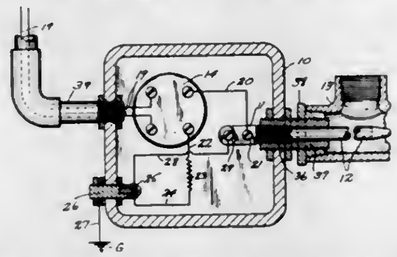


In a circuit for alternately illuminating two gaseous discharge devices, first and second discharge devices each having first and second terminals, the first terminals of each discharge device being connected together at a common point, a first resistance connected at one side to said common point and at its other side to the positive terminal of a source of potential, the second terminal of the second discharge device being connected to a mid tap on the source of potential, the second terminal of the first discharge device being connected through a second resistance to the negative terminal of the potential source, and a capacitance connected in shunt across said second resistance.



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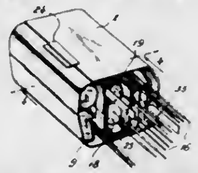
**2,647,223**
**ELECTRONIC STATIC DISCHARGE APPARATUS**
**Alex J. Check, Struthers, Ohio**
**Application May 14, 1948, Serial No. 26,958**
**2 Claims. (Cl. 317—2)**



1. Static discharge apparatus comprising a rod-like collecting electrode, a power source and a ground, one end of the said electrode connected to said ground, a transformer in connection with the said power source and a rectifier in connection with the secondary of the said transformer, and a conductor connecting the said positive side of said rectifier with the said electrode at a point thereon spaced with respect to said ground connection and hence with the said ground by way of said electrode.

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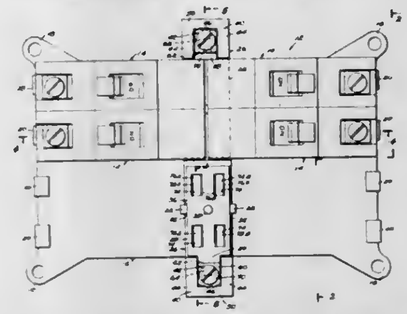
**2,647,224**
**MEANS AND METHOD FOR ASSEMBLING ELECTRIC CIRCUIT COMPONENTS**
**George G. Bruck, Syosset, N. Y., assignor to Specialties, Inc., Syosset, N. Y., a corporation of New York**
**Application December 2, 1950, Serial No. 198,858**
**23 Claims. (Cl. 317—101)**



1. An assembly of electric circuit components comprising, a backing strip of flexible, rollable insulating material, at least three circuit components having terminals, said components being positioned along the face of said strip in spaced relation with certain of said terminals extending toward the same longitudinal edge of the strip, loops of insulating material secured at both ends to said strip and passing over said components to secure the same to said strip, wires extending along and within the confines of said strip interconnecting terminals of certain of said components, and leads extending from at least some of said terminals beyond said edge of the strip, said strip with said components secured thereto being formed into a rolled bundle of which one end of said strip is on the inside and the other end is on the outside of the bundle.

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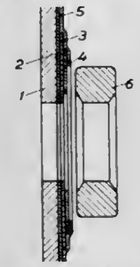
**2,647,225**
**TERMINAL PANEL ASSEMBLY**
**Thomas M. Cole, New York, N. Y., and Paul M. Christensen, West Orange, N. J., assignors to Federal Electric Products Company, Newark, N. J., a corporation**
**Application November 15, 1949, Serial No. 127,432**
**26 Claims. (Cl. 317—112)**



1. A panel construction for the mounting thereon of a plurality of separate electrical devices each of which has at least one electrical terminal contact member adapted to releasably engage a companion contact on the panel, said panel being provided with a plurality of discrete retaining elements adapted to releasably engage said devices, respectively, and with a plurality of individual electric contacts adapted to releasably engage the terminal contact members respectively, of the electrical devices mounted thereon, said panel contacts and retaining elements being arranged in pairs and the retaining element and panel contact of each pair being in spaced relation on the panel to receive a companion one of the electrical devices therebetween in releasable engagement therewith, the panel contact and retaining element of each pair being electrically independent of each other but adapted to act conjointly in releasably holding the companion electrical device in position on the panel and with the panel contact in electrical engagement with the terminal member of the companion device.

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**2,647,226**
**DRY RECTIFIER VALVE PLATE**
**Algot Arvidsson, Ludvika, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation**
**Application September 16, 1948, Serial No. 49,500**
**In Sweden September 20, 1947**
**1 Claim. (Cl. 317—234)**



A dry rectifier valve plate, comprising a metallic base plate, a semi-conducting layer thereon, a metallic counter-electrode covering the major portion of said layer, an insulating layer in con-

tact with the central portion of said semi-conducting layer, and a metallic current-transmitting layer of higher mechanical strength than said counter-electrode, at least at high temperature, said current-transmitting layer covering said insulating layer at its central portion and being covered by said counter-electrode at its peripheral portion.

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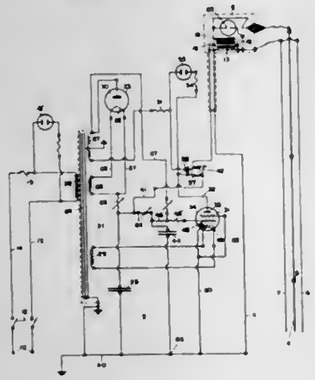
2,647,227
**DRY-PLATE RECTIFIER**
**William M. Lacey, Medford, Mass., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts**
**Application January 28, 1949, Serial No. 73,246**
**14 Claims. (Cl. 317—241)**



1. A dry-plate rectifier comprising multiple plates each having a counterelectrode, a carrier electrode, and an intervening rectifying layer, said plates being series-connected with the counter-electrode of one plate overlapping the carrier electrode of the next plate repeatedly in sequence, the area of overlap of each contact being restricted to a small fraction of the total rectifying area of any of the plates.

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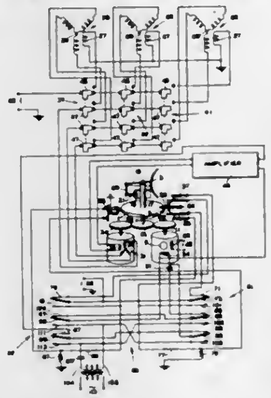
2,647,228
**APPARATUS FOR CONTROLLING BIRD NUISANCE**
**John H. Just, Syracuse, N. Y., assignor, by mesne assignments, to Eli Gingold, Syracuse, N. Y.**
**Application May 12, 1948, Serial No. 26,660**
**1 Claim. (Cl. 317—262)**



In an apparatus for controlling bird nuisance, a field-producing wire adapted to be connected above ground at a bird-gathering place, a high-voltage induction unit having its output connected between said field-producing wire and ground and having input-energizing connections, direct current and alternating current sources, a main condenser, a charging resistor in series with said main condenser and connecting the latter to said direct current source, a relay switch including an operating winding and normally-open switch contacts, circuit connections including said switch contacts for connecting said input-energizing connections across said main condenser, a thyratron including a control electrode and a plate-cathode discharge section, said plate-cathode discharge section being connected in series with said operating winding and said alternating current source, and a resistance-capacitance control circuit for said thyratron, said control circuit including a first isolating resistor in series with said control electrode and said alternating current source, and a second isolating resistor connected between said control electrode and the common junction of said main condenser and said charging resistor, said isolating resistors being proportionsd to provide a thyratron firing potential only when said main condenser is in condition to energize said induction unit.

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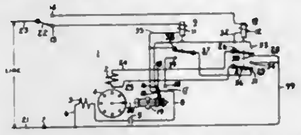
2,647,229
**CONTROL SYSTEM**
**Irving B. Cooper, Jr., Maywood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
**Application March 3, 1950, Serial No. 147,342**
**10 Claims. (Cl. 318—30)**



1. In a control system for positioning a device rotatable between limits in response to a signal, driving means responsive to the signal for rotating said device, means actuated when said device reaches the limits of rotation to apply to said driving means a voltage opposite in phase to the signal to rotate said device in the opposite direction, and separate circuit interrupting means intermediate said limits of rotation and actuated when said device is rotated through a predetermined angle from its limits of rotation and adapted to apply the signal to said driving means to rotate said device to signal position.

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2,647,230
**INSTANTLY REVERSIBLE MOTOR**
**Donald C. Reek, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York**
**Application May 7, 1952, Serial No. 286,471**
**12 Claims. (Cl. 318—203)**

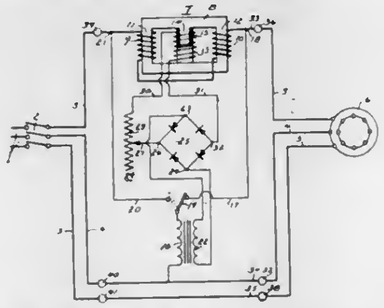


1. An instantly reversible, self-starting, single-phase alternating current motor comprising a running winding circuit, a starting winding circuit including a starting winding and a reactive device for electrically displacing said starting and running windings for starting said motor, one of said winding circuits being adapted to be connected to one side of a source of alternating current, a pair of relays having their operating coils respectively arranged to be connected in circuit with one of said winding circuits, a single-pole double-throw switch connected to the other side of said source of alternating current and adapted selectively to connect said operating coils to said other side of said source of alternating current with the operating coil so selected and the winding circuit connected thereto being initially connected across said source of alternating current, and a switch in said starting winding circuit arranged to open the same responsive to a predetermined operating characteristic of said motor, each of said relays having contacts arranged to connect said running winding and the operating coil of the selected relay in circuit with said one side of said source whereby said running winding and the operating coil of the selected relay are energized after said switch opens said starting winding circuit, said relays respectively having contacts arranged to connect at least one of said windings in a regenerative braking circuit when neither of said relay operating coils is energized whereby said braking circuit is established when the other of said relay operating coils is selected to reverse said motor while said motor is running and before said switch closes said starting winding circuit.



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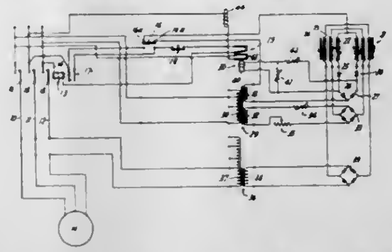
2,647,231
**AUTOMATIC STARTER FOR INDUCTION MOTORS**
**John A. Cortelli, Cleveland Heights, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio**
**Application May 25, 1950, Serial No. 164,160**
**6 Claims. (Cl. 318—229)**



1. In a starter for a polyphase induction motor, a plurality of starter mains having end terminals for connecting them respectively at one end to corresponding motor mains and at the other end to corresponding alternating current supply mains; a saturable reactor comprising a multi-part core; a reactor winding on one part of the core in series with one starter main; a direct current saturating winding on another part of the core; a transformer having its primary connected to two of the starter mains at the supply side of the reactor winding; and having a potential step down secondary; a dry plate rectifier having input and output terminals, the input terminals connected to the transformer secondary; an adjustable resistor; the resistor and saturating winding connected in series with the rectifier output terminals; a closed conductor coaxial with the direct current winding and on the same core part therewith, and of sufficiently low resistance to retard the rise of flux in the core part produced by the direct current winding thereon.

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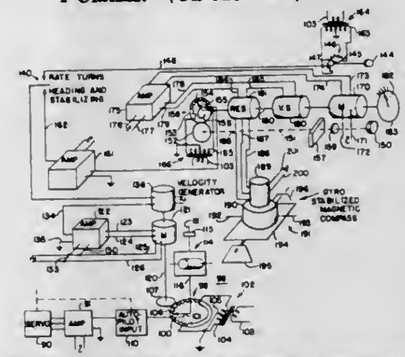
2,647,232
**POWER CONTROLLED SWITCH FOR ELECTRIC MOTORS**
**David H. Ransom, Pines Lake, and Fred Benjamin, Fair Lawn, N. J., assignors to Bogue Electric Manufacturing Co., Paterson, N. J.**
**Application January 17, 1951, Serial No. 206,353**
**6 Claims. (Cl. 318—455)**



4. In combination, an alternating current motor, a source of alternating current for energizing said motor, a relay operated switch between said motor and said current source, reactor means including a power winding in circuit with said relay operated switch, a bias winding, a line voltage compensating winding in circuit with said current source and a control winding in circuit with said current source and said motor, means for energizing said bias winding, said control winding being adapted in response to changes in power conditions to cause said power winding to energize said relay operated switch, said compensating winding being operative to prevent operation of said switch upon fluctuations in line voltage, the power remaining constant, said bias winding being adapted to control the operation of said power winding.

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2,647,233
**AUTOMATIC STEERING APPARATUS**
**Robert J. Kutzler, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application April 16, 1949, Serial No. 87,909**
**4 Claims. (Cl. 318—489)**



1. Steering apparatus for a dirigible craft having power means for reversibly actuating a control surface on said craft for changing its heading, said apparatus comprising: an electronic amplifier having its output connected to said

power means for controlling the direction of rotation of said power means; a balanceable control circuit connected to the input of said amplifier including a potentiometer having a slider part and resistor part relatively displaceable from a null position; a free directional gyroscope means for adjusting one part of said potentiometer; means for adjusting the other part of said potentiometer; a compass reponsive to the earth's magnetic field; and means controlled by said compass and effective upon relative movement of said craft and compass for operating the other part adjusting means for stabilizing the heading of said craft.

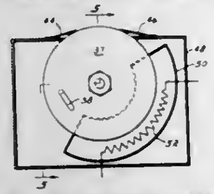
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2,647,234

## CLOUD DETECTING SYSTEM

Charles B. Pear, Jr., College Park, Md., assignor to The Davies Laboratories, Inc., Riverdale, Md., a corporation of Maryland

Application January 19, 1951, Serial No. 206,783
2 Claims. (Cl. 324—65)



1. A device for detecting the presence of a cloud of minute droplets of water, comprising two coaxial closely spaced rotatable drums, an annulus of insulating material connected to and spacing said drums and being of sufficiently small width to be bridged by a drop of water contacting said drums, signalling means, a normally open circuit including said drums and said signalling means and adapted to be completed by a drop of water bridging said insulating means and contacting said drums, heating means for vaporizing a drop of water bridging said insulating means and contacting said drums, and means for scraping moisture from the peripheral surfaces of said drums and insulating means.

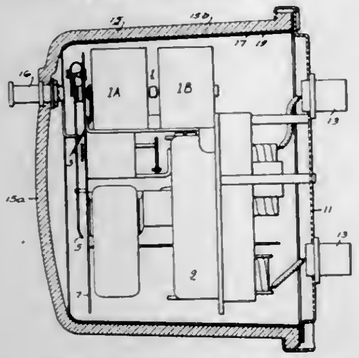
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2,647,235

## THERMO-RESPONSIVE MEASURING DEVICE

Cornelius Hogenbirk, East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 30, 1947, Serial No. 783,102
11 Claims. (Cl. 324—105)



1. In a thermal measuring device, a thermoresponsive electrical movement having spaced components which may be heated to different temperatures, said thermoresponsive electrical movement having a response affected by the distribution of radiant energy received by said components, a casing for the movement comprising a base member and a cup-shaped glass cover having a side wall and an end wall, said glass cover forming with the base member an enclosure for the movement, and a substantially opaque and continuous layer of metal secured to the interior surface of the side wall of the glass cover, said layer of metal extending substantially around said components to protect said thermoresponsive movement from radiant energy reaching the thermal measuring device from an external source, said end wall being light-permeable for permitting inspection therethrough of a portion of said movement.

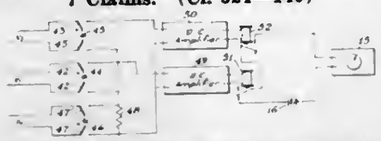
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2,647,236

## ELECTRICAL CIRCUIT FOR MEASURING THE RATIO OF TWO POTENTIALS

Jason L. Saunderson, Victor J. Caldecourt, and Eugene W. Peterson, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application May 20, 1948, Serial No. 28,138
7 Claims. (Cl. 324—140)



5. In apparatus for determining the ratio of the potentials on two charged condensers, the combination of individual circuits comprising resistors for discharging the condensers, the resistors being of such magnitudes that the mathematical product of the capacitance of the condenser and the resistance of the resistor is substantially equal for both condenser-resistor pairs, individual electron-tube amplifiers for following the potentials of the discharging condensers, switching means for connecting each condenser to its discharging circuit and to the input circuit of the corresponding amplifier during a measuring period, means responsive to the outputs of the respective amplifiers for initiating a timing impulse when the falling potential on the charged condenser of lower potential reaches a predetermined low potential and for terminating the timing impulse when the falling potential on the other of the charged condensers reaches the same predetermined low potential, and a timer for indicating the duration of the timing impulse.

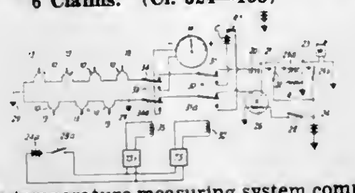
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2,647,237

## THERMOCOUPLE TESTING SYSTEM

John A. Herbst, Pines Lake, N. J., assignor, by mesne assignments, to Bogue Electric Manufacturing Co., Paterson, N. J.

Application November 17, 1950, Serial No. 196,122
6 Claims. (Cl. 324—158)



1. In a temperature measuring system comprising a circuit including at least one thermocouple having a hot junction and heat insulated reference junctions, test means for the circuit including a source of current of predetermined value, time controlled switch means for connecting said current source in said circuit for a predetermined time interval, a meter and time controlled switch means for connecting said meter in series with said thermocouple upon the expiration of a predetermined time interval after the expiration of the first mentioned time interval.



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2,647,238

## TELEPHONIC PULSE-CODE-MODULATION SYSTEM

Christopher Edmund Gervase Bailey, London, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 25, 1949, Serial No. 129,226
In Great Britain November 26, 1948
9 Claims. (Cl. 332—11)



1. In a pulse-code-modulator system, apparatus for encoding audio frequency signals comprising a sampling system to derive periodically from said audio signals a control voltage pulse whose initial value is a function of the instantaneous value of the signals and whose value thereafter decays at a given rate, and an encoding system coupled to said sampling system and responsive to each control voltage pulse to generate a code combination having a predetermined number of code elements, the character of said elements being determined by the form of said control voltage pulse.

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2,647,239

## PASSIVE FOUR TERMINAL NETWORK FOR GYRATING A CURRENT INTO A VOLTAGE

Bernardus Dominicus Hubertus Tellegen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application March 6, 1948, Serial No. 13,506
In the Netherlands April 29, 1947
4 Claims. (Cl. 333—24)



2. A passive four-terminal network comprising a polarizable medium possessing gyromagnetic properties, input terminals to apply an input voltage and an input current to said network, output terminals to take an output voltage and an output current from said network, means to polarize said medium in a first direction, means connected to said input terminals to produce a primary field in said medium in a second direction different from said first direction, said primary field producing in said polarized medium a secondary field having a third direction different from said first and second directions, and means coupled to said secondary field to produce said output voltage and output current at said output terminals.

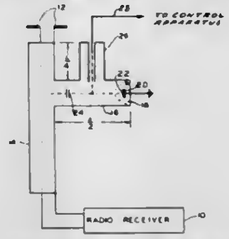
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2,647,240

## RADIO-FREQUENCY TRANSMISSION LINE SWITCHING SYSTEM

William Todd, Neptune City, N. J., assignor to the United States of America as represented by the Secretary of War

Application February 5, 1946, Serial No. 645,685
6 Claims. (Cl. 333—97)
(Granted under Title 35, U. S. Code (1952), sec. 266)




1. A radio frequency switching system comprising a coaxial transmission line, a half wavelength coaxial stub line having its outer conductor at one end thereof connected to the outer conductor of said transmission line and having its inner conductor at said one end thereof connected to the inner conductor of said transmission line; a gas tube having a first electrode connected to the outer conductor of said stub line at the other end thereof and having a second electrode connected to the inner conductor of said stub line at said other end thereof; a source of plate voltage of a value at least sufficient to fire said gas tube; an electron discharge device; a radio frequency choke connecting the cathode of said device to the second-named electrode of said gas tube; means connecting the plate of said device to the first electrode of said gas tube through said source of plate voltage; a grid resistor connecting the grid of said device to said cathode; a condenser; a pulse generator connected to the grid of said electron discharge device through said condenser; said condenser and resistor constituting a differentiating means for deriving pulses of opposite polarity, corresponding respectively to the leading and trailing edges of each pulse from said pulse generator, for firing the gas tube at the leading edge and extinguishing the gas tube at the trailing edge of each pulse from said pulse generator.

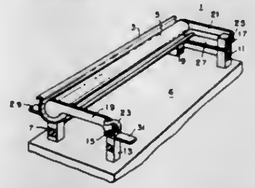
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2,647,241

## TUNING STUB

Sheldon I. Rambo, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 17, 1949, Serial No. 121,810
5 Claims. (Cl. 336—123)

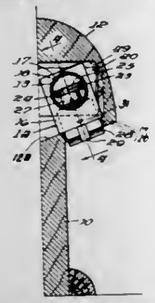


2. In a transmission line having concentric conductors, the combination of a support member, an outer tubular conductor fixed to said support member, and an inner conductor hinged to said support member at a point outside the

diameter of the outer conductor such that the inner conductor is adapted thereby to move relative to the outer conductor.

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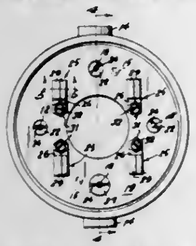
**2,647,242**
**COMBINATION FLOOR MOLDING AND ELECTRIC CONDUIT STRUCTURE**
**Charles Kutcka, Los Angeles, Calif.**
**Application May 18, 1951, Serial No. 226,978**
**5 Claims. (Cl. 339—23)**



1. An electrical wiring structure for buildings comprising molding abutting the wall of a room in an overlying relation to the floor level; outlet boxes concealed by said molding and maintained in a passage therein in a downwardly and outwardly directed position in relation to said wall; there being openings in said molding registering with said outlet boxes; an electric wiring conduit supported in said molding and rigidly connected to said outlet boxes; and electric conductors extending through said conduit and said outlet boxes and connecting them in an electric circuit; said outlet boxes having side portions provided internally with recesses; and contact blocks carrying strips of resilient metal furnished with locking lugs engageable with said recesses releasably to secure said contact blocks to said boxes; said strips of resilient metal projecting through said openings and being accessible for manual flexing whereby to disengage said locking lugs from said recesses and withdraw said contact blocks through said openings.

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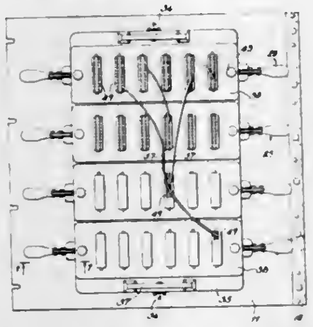
**2,647,243**
**SOCKET FOR PLUG-IN TYPE ELECTRIC METERS**
**John C. Clark, Marshall, Tex.**
**Application July 7, 1950, Serial No. 172,583**
**4 Claims. (Cl. 339—31)**



1. A meter socket for plug in type electric meters comprising a shell having a rear wall and an open side, said shell having an outer wall provided with a pair of aligned conductor receiving openings, an annular terminal block of electrical insulating material loosely disposed in said shell, fastening means anchored to the rear wall of the shell and detachably connected to the block for detachably securing the block in the shell and against said rear wall, said fastening means including a pair of fastenings disposed in alignment with the conductor receiving openings and a pair of aligned fastenings disposed at right angles to the aligned conductor receiving openings, and a plurality of meter prong engaging clips immovably secured to said terminal block and projecting therefrom toward the open side of the shell, said terminal block being rotatable in said shell when disengaged from said fastenings for positioning the clips either parallel to or at a right angle to the axis of said openings of the outer wall.

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**2,647,244**
**PREPATCH CONNECTOR BAY**
**Chalmers B. Dewey, Manhasset, and Norman C. Zatsky, Valley Stream, N. Y., assignors to Reeves Instrument Corporation, New York, N. Y., a corporation of New York**
**Application August 31, 1950, Serial No. 182,498**
**15 Claims. (Cl. 339—45)**



1. In a removable connector bay for engaging and disengaging a plurality of circuit connections to an instrument such as an electronic computer, the combination of a panel mounted in a relatively fixed position on an instrument, a plurality of spaced contact elements carried by said panel, said contact elements having wiring terminals on the rear of the panel for connection to the instrument and contact portions on the front of the panel, a support detachably secured to said panel, a panel movably secured to said support, a plurality of spaced contact elements carried by said movable panel, said contact elements having contact portions on the rear of said movable panel which are positioned in opposing relation to the contact portions of the first-mentioned contact elements and terminal portions on the front of said movable panel for receiving detachable circuit connectors and clamping means on the instrument for engaging with said movable panel and moving said panel with respect to the support to bring the opposing contact engaging portion of the respective contact elements into and out of engagement.

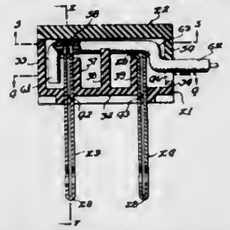
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**2,647,245**
**READILY ATTACHABLE ELECTRICAL CONNECTOR**
**Charles E. Gilbert, New York, N. Y.; Margaret Doris Gilbert, Norman Coates, and The Chase National Bank of the City of New York, executors of said Charles E. Gilbert, deceased**
**Application September 28, 1949, Serial No. 118,256**
**5 Claims. (Cl. 339—99)**

1. An electrical connector comprising a unitary molded body of insulating material having a pair



of parallel contact-element-receiving openings, a pair of sheet metal contact elements positioned respectively within said openings, each of said elements having a contact-making portion adapted to make electrical contact with another electrical element and also having a sharply pointed end opposite thereto, the points of said ends being disposed along parallel lines separated by a distance substantially equal to the separation of the wires of a two-conductor cord intended to be connected to said connector, said body having a straight cord-receiving channel interconnecting the corresponding ends of said openings and extending perpendicularly to said openings and to said contact elements, said element pointed ends extending into said channel adjacent opposite sides thereof, and a cover linearly slidably engageable on and partially surrounding said body, and having an inner surface

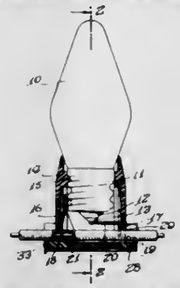


substantially parallel to said channel, said inner surface also having a pair of protuberances which in the assembled position of said cover on said body respectively overlie the points of respective contact element ends, said protuberances in said assembled position being spaced from said pointed ends by a distance less than the thickness of an insulated conductor of said cord while said cover inner surface is spaced from the opposite boundary of said channel by a distance at least equal to the thickness of said insulated conductor, whereby upon assembly of said cover on said body, friction between said cover and said cord is minimized while said protuberances are adapted to press the respective conductors of said conductor cord against the respective pointed ends of said contact elements to pierce the insulation of said conductors and to make electrical contact with the wires thereof.

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**2,647,246**
**ELECTRIC LAMP SOCKET WITH PIN TAP CONNECTING MEANS**
**Charles E. Gilbert, New York, N. Y.; Margaret Doris Gilbert, Norman Coates, and The Chase National Bank of the City of New York, executors of said Charles E. Gilbert, deceased**
**Application November 10, 1950, Serial No. 194,985**
**4 Claims. (Cl. 339—99)**

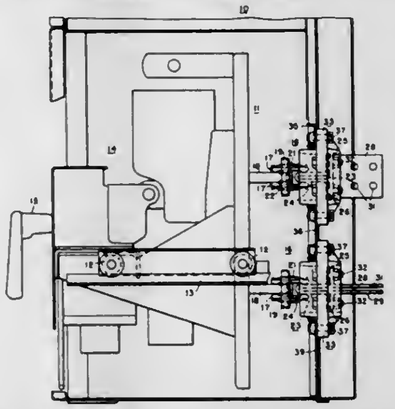
1. A socket for electric light bulbs having a threaded base terminal and a further central tip terminal, comprising a hollow unitary body of insulating material having a substantially cylindrical bore, a pair of grooved recesses formed in the inner surface of said bore diametrically opposite one another and extending partially therealong from one end thereof to form respective shoulders, said bore having threads formed therein adapted to receive the threaded base of a light bulb, a pair of flat electrical contact elements integrally formed of sheet metal having portions respectively slidably seated in said recesses in abutment with said shoulders and having projections integrally formed therewith and adapted to make electrical contact with the respective terminals of said light bulb when inserted in said threads, said hollow body having a channel formed transversely at said one end of said bore and extending in alignment with and communicating with said recesses, each of said contact elements being provided with an integral pointed end formed at one end of said first named portions and extending into said channel for piercing the insulation of a respective one of the insulated wires of an electrical conductor cord when lying in said channel to make electrical contact with said wires, said body having a pair of ridges



extending along the outer walls thereof parallel to and in part coplanar with said channel, and means in the form of a cover having linearly extending reentrant edges slidably engaging said ridges for covering said channel, said cover having an inner surface substantially parallel to the base of said channel and a pair of projections at locations respectively opposite said pointed contact ends for holding such an electrical conductor cord in contact with said contact element ends.

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**2,647,247**
**QUICK DETACHABLE CONNECTOR FOR METAL-ENCLOSED SWITCHGEARS**
**Wilbur C. Fulton, Pittsburgh, and Roy S. Tusing, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 27, 1950, Serial No. 192,502**
**9 Claims. (Cl. 339—214)**



1. A disconnecting contact for a circuit breaker unit comprising spaced contact fingers carried by the circuit breaker unit, an angular member disposed for engagement by the contact fingers, an angle member connected directly to the angular member, an insulating base having an opening therein, said angular member having one leg extending through said opening, and bolts ex-

tending through the base for connecting the angle member to the other leg of the angular member and to the base.

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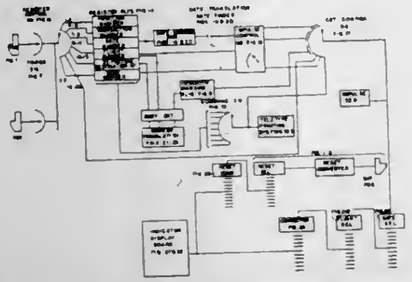
**2,647,248**
**SOCKET-TYPE CONTACT**
**Edwin E. Ritter, Chalfonte, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa., a corporation of Pennsylvania**
**Application May 17, 1951, Serial No. 226,757**
**2 Claims. (Cl. 339—258)**



1. A sleeve-type contact element for an electronic tube socket comprising a one-piece sheet metal part stamped and rolled to provide a pin-receiving tubular section and a conductor-connecting tail-piece in the form of a longitudinal extension of said tubular section, the wall of said tubular section in the region thereof opposite that from which said tail-piece extends being longitudinally split for its full length to provide a pair of opposed arcuately shaped wing elements which are resiliently biased toward each other, the wall of said tubular section being additionally partially split by at least one open-ended notch extending inwardly from the outer end of said tubular section to a point located between the opposite ends thereof whereby to provide the outer portion of said tubular section with relatively flexible segments, each of the latter being provided with at least one internally-projecting element adapted to locally engage and make point-contact with the tube-pin inserted into said tubular section.

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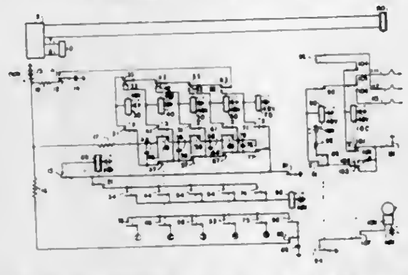
**2,647,249**
**SPACE RESERVATION SYSTEM**
**Imre Molnar, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Application December 30, 1948, Serial No. 68,273**
**32 Claims. (Cl. 340—153)**



14. In a space reservation system, a plurality of clerk's positions, sets of register relays accessible to said positions, terminals for each of said positions arranged in groups corresponding to said sets and each terminal in each of said groups corresponding to one of said relays in a corresponding set, a source of current connected to a predetermined combination of terminals in each of said groups to identify the associated position, a key at each of said positions, means responsive to the operation of said key at any one of said positions for connecting said sets of relays successively to corresponding groups of said terminals individual to said one position, and said relays in said sets which correspond to terminals in each of said predetermined combinations for said one position operated automatically in response to said successive connections to identify said one position.

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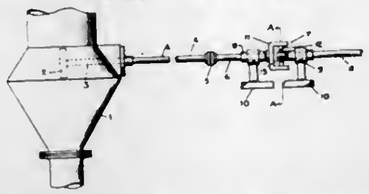
**2,647,250**
**ALL-RELAY SELECTIVE CALLING SYSTEM**
**Roswell H. Herrick, Lorain, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware**
**Original application November 25, 1949, Serial No. 129,488, now Patent No. 2,600,648, dated June 17, 1952. Divided and this application November 30, 1951, Serial No. 259,117**
**6 Claims. (Cl. 340—168)**



2. A quick-release circuit for a relay comprising a relay having a winding, a holding circuit for said relay including said winding, means for closing said holding circuit to thereby establish a current flow therein in one direction, a condenser, means for charging said condenser, and means for including said condenser in said holding circuit with the winding of said relay, said condenser discharge establishing a current flow in said circuit in a direction opposed to that of the original holding current in the circuit to thereby accelerate the release of said relay.

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**2,647,251**
**LEVEL INDICATOR**
**William F. Archibald, Johannesburg, Transvaal, Union of South Africa, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company**
**Application December 19, 1950, Serial No. 201,510**
**In Great Britain December 21, 1949**
**7 Claims. (Cl. 340—246)**

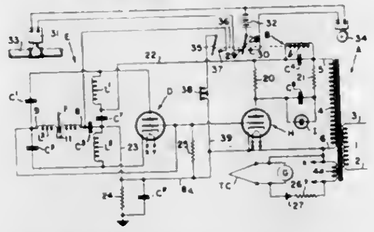


1. An apparatus suitable for indicating the level of solids in a container which comprises a rotatable member resembling a paddle, the shaft of said rotatable member being connected through a magnetic coupling to a shaft adapted to be driven, said rotatable member being adapted to be positioned in said container, and indicating means adapted to be actuated by the voltage generated at the magnetic coupling in response to the resistance offered to the rotation of the rotatable member by the presence of solid material in the container.



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**2,647,252**
**CONTROL APPARATUS**
**Warren Moore, Jr., Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application July 26, 1949, Serial No. 106,796**
**28 Claims. (Cl. 340—266)**

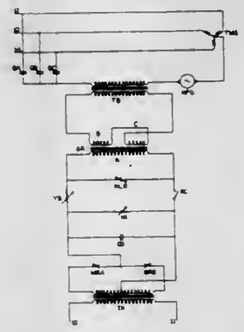


9. An oscillator controller comprising an electronic valve having an anode, a cathode, and a control grid, a tuned input circuit connected between said cathode and said control grid and including an inductive element and a variable reactive element connected in series, a tuned output circuit connected between said anode and said control grid and including a second inductive element and said variable reactive element connected in series, said variable reactive element being regulable to initiate and interrupt oscillation of the oscillator, a pair of terminals adapted to be connected to a source of energizing current, a load circuit including conductors connecting said anode and said cathode to said terminals, whereby the energizing current which flows through said load circuit from the source is dependent in magnitude upon the degree of conductivity of said valve, and grid-cathode bias means connected between said control grid and said cathode and operative to vary the conductivity of said valve in accordance with the oscillation or non-oscillation of the oscillator, whereby the degree of energization of said load circuit is determined by the adjustment of said variable reactive element.

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**2,647,253**
**ELECTRICAL SIGNALING SYSTEM**
**John Francis Mackenzie and Theodore Horrocks, Liverpool, England, assignors to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company**
**Application June 6, 1950, Serial No. 166,520**
**In Great Britain June 30, 1949**
**7 Claims. (Cl. 340—310)**

1. An electrical signalling system for operating switching devices connected to polyphase electric supply mains at remote points and responsive to characteristic currents of high frequency superimposed on the mains, comprising a source of high frequency current effectively connected across each phase, saturable reactor means having alternating current and direct current windings, said alternating current windings being connected to modify the high frequency current flow in each phase and means for intermittently applying direct current potential to said saturable reactor means whereby the impedance of said



alternating current windings is altered thereby affecting the magnitude of high frequency current supplied to each phase.

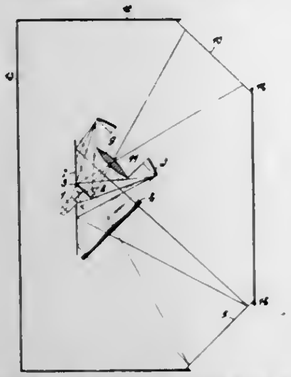
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**2,647,254**
**COMBINED FLASHLIGHT AND EMERGENCY LIGHT**
**William Brunnhoelzl, Deep River, Conn.**
**Application August 16, 1950, Serial No. 179,847**
**11 Claims. (Cl. 340—321)**



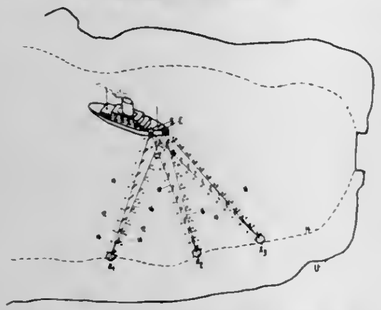
1. In a combined flash-and-emergency light, the combination of a casing having an opening; a socket for a light bulb in said casing; a cap removably mounted on said casing and having an orifice in alignment with the opening in said casing for the outward passage of light from a bulb in said socket; and a light-permeable tube connected with said cap and said casing, and having provision for permitting said tube to be extended from and retracted into said casing through said opening therein on removing said cap from and mounting it on said casing, respectively, said tube being in its extended condition in illuminating relation with, and forming between the opening in said casing and the orifice in the removed cap a passage for, light from a bulb in said socket, and said tube being marked to signify, when illuminated, an emergency signal, and being in its retracted condition out of the path of light between the opening in said casing and the orifice in said cap.

2,647,255
## TELEVISION RECEIVER
Pieter Cornelis Jansen and George Weehuizen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application September 6, 1950, Serial No. 183,426
In France September 21, 1949
3 Claims. (Cl. 340—368)



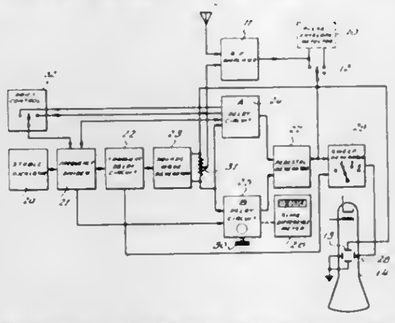
1. A television reiceiver comprising a Schmidt optical system, and a cathode-ray tube; said Schmidt optical system comprising a spherical mirror and a correcting element, said cathode-ray tube comprising a screen positioned in the image surface of said spherical mirror, said spherical mirror having the central part thereof inactive, a second optical system located in the zone of said inactive central part of said spherical mirror and adapted to project an image equivalent to that projected by said Schmidt optical system, and means for projecting the image produced by said Schmidt optical system at substantially right angles to the image produced by said second optical system.

2,647,256
## RADAR SYSTEM
Walter Gerhard Hellpern, Zurich, and Ernst Vogt, Wallisellen, Switzerland, assignors to Societe Technique pour l'Industrie Nouvelle S. A. "Stin," Vevey, Switzerland, a Swiss corporation
Application June 21, 1949, Serial No. 100,406
In Switzerland July 6, 1948
4 Claims. (Cl. 343—5)



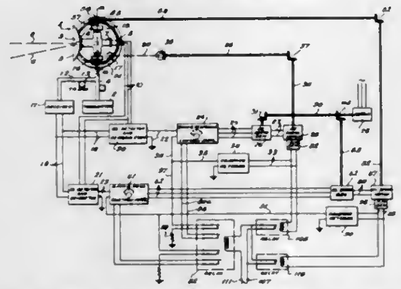
1. Apparatus for detecting a selected object from a group of objects, all of said objects being capable of reflecting incident high frequency electromagnetic waves, transmitting means including an antenna system arranged to transmit high frequency electromagnetic waves having a predetermined direction of polarization to said objects, receiving means including an antenna system arranged to receive waves having a direction of polarization different from said predetermined direction and being nonresponsive to the transmitted waves, and means separate from but carried by the selected object for changing the direction of polarization of the incident waves from said predetermined direction to said different direction thus rendering the waves transferable, said last named means including a stationary member having a plurality of spaced-apart metallic strips arranged thereon in parallel relationship.

2,647,257
## NONAMBIGUOUS CYCLE MATCHING SYSTEM
Walter Dean, Hempstead, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application January 22, 1948, Serial No. 3,735
23 Claims. (Cl. 343—105)



1. A method of resolving cyclic ambiguity in cycle matching radio frequency signals, comprising the steps of: phase modulating said signals in synchronism, comparing the modulated radio frequency signals in phase, and comparing the phase modulations to resolve cyclic ambiguity in said first comparison.

2,647,258
## AUTOMATIC TRACKING SYSTEM
Rawley D. McCoy, Bronxville, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application March 29, 1946, Serial No. 658,026
30 Claims. (Cl. 343—117)



1. A control system of the character described comprising a source of control signal voltage, a



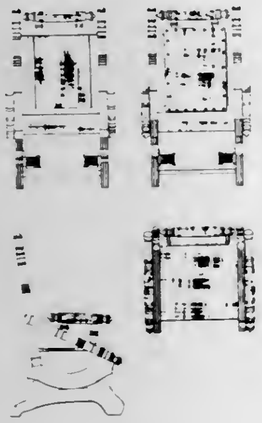
servo mechanism, an amplifier having its input connected to receive said signal voltage and its output connected in controlling relation to said servo mechanism, and means for controlling the response of said system in response to the rate of the servo output.

15. A radio tracking system comprising a scanner having a directional axis and mounted for movement in azimuth and elevation, said scanner comprising an antenna having a directivity axis, means including a receiver connected with said antenna for supplying signal voltages proportional to the azimuth and elevation components of the angular error or lack of coincidence between the directional axis of said scanner and the direction therefrom to a distant target, an azimuth servo mechanism comprising an azimuth amplifier connected to receive the azimuth component error voltage and an azimuth servomotor controlled by the output of said azimuth amplifier and connected to drive said scanner in azimuth, an elevation servo mechanism comprising an elevation amplifier connected to receive the elevation component error voltage and an elevation servomotor controlled by the output of said elevation amplifier and connected to drive said scanner in elevation, and means for controlling the response of both servo mechanisms in accordance with the output rate of one of said servomotors.

# DESIGNS

JULY 28, 1953

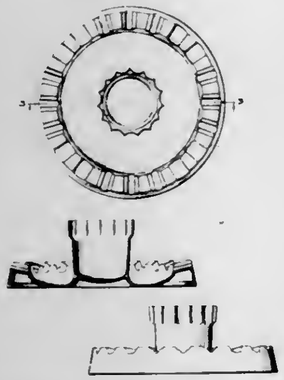
**170,073**
**ROCKER CHAIR**
**Romeo A. Beaudette, Mankato, Minn.**
**Application October 29, 1951, Serial No. 17,164**
**Term of patent 14 years**
**(Cl. D15—6)**



The ornamental design for a rocker chair, substantially as shown.

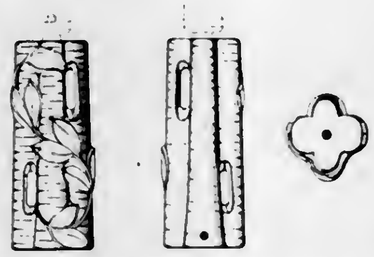
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**170,074**
**ASH TRAY**
**Edward C. Blanko, San Gabriel, Calif.**
**Application February 20, 1953, Serial No. 23,717**
**Term of patent 14 years**
**(Cl. D85—2)**



The ornamental design for an ash tray, as shown.

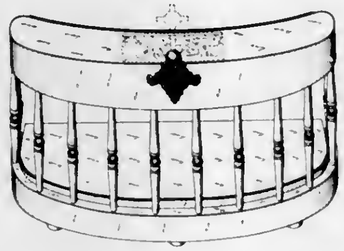
**170,075**
**ELECTRIC LAMP BASE**
**David Borowitz, Chicago, Ill.**
**Application March 2, 1953, Serial No. 23,860**
**Term of patent 3½ years**
**(Cl. D48—20)**

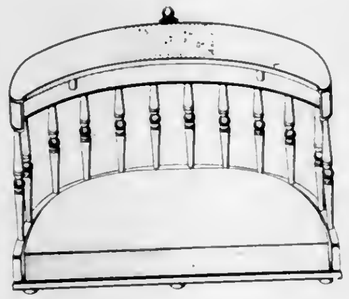


The ornamental design for an electric lamp base, substantially as shown and described.

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**170,076**
**DEVOTIONAL DESK**
**Elizabeth Alberta Brenner, Wallingford, Conn.**
**Application December 30, 1952, Serial No. 22,937**
**Term of patent 14 years**
**(Cl. D29—23)**

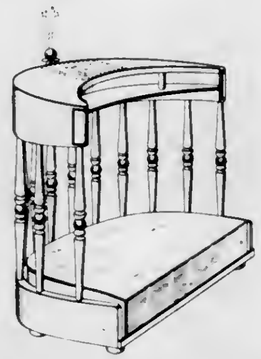








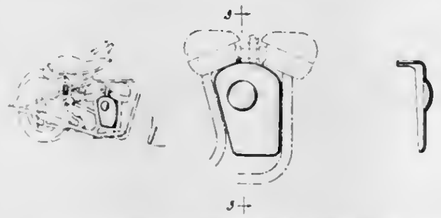
**170,076—Continued**



The ornamental design for a devotional desk, as shown and described.

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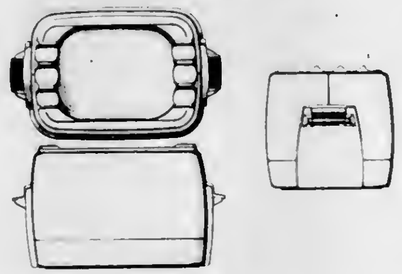
**170,077**
**COWLING FOR MOTORCYCLE ENGINES**
**Walter E. Brown, North Wilbraham, Mass., assignor to The Indian Company, Springfield, Mass., a corporation of Delaware**
**Application September 6, 1952, Serial No. 21,368**
**Term of patent 14 years**
**(Cl. D90—8)**



The ornamental design for a cowling for motorcycle engines, as shown and described.

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**170,078**
**ASH TRAY OR SIMILAR ARTICLE**
**Stanley J. Budlane, Palatine, and Robert Dusek, Cicero, Ill., assignors to Dulane, Inc., River Grove, Ill., a corporation of Illinois**
**Application March 2, 1953, Serial No. 23,856**
**Term of patent 3½ years**
**(Cl. D85—2)**



The ornamental design for an ash tray or similar article, substantially as shown and described.

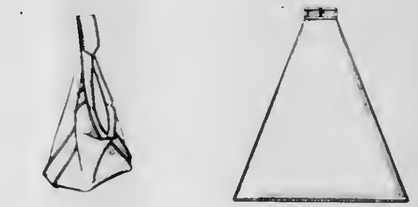
**170,079**
**GAME BOARD**
**Elizabeth H. Burckes, Sudbury, Mass.**
**Application April 13, 1953, Serial No. 24,458**
**Term of patent 14 years**
**(Cl. D34—5)**

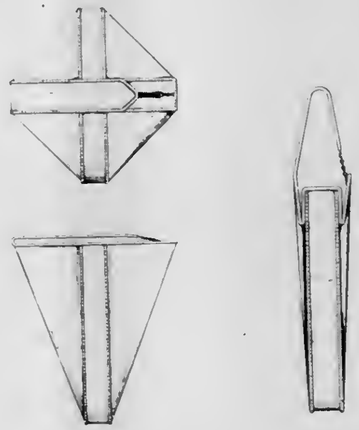


The ornamental design for a game board, as shown and described.

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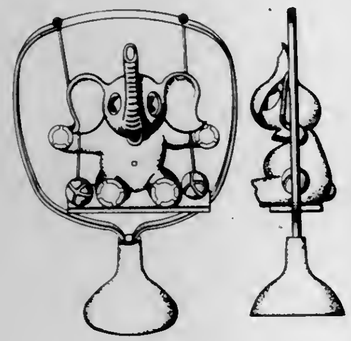
**170,080**
**BAG**
**Rajean M. Codish, New York, N. Y.**
**Application April 5, 1952, Serial No. 19,209**
**Term of patent 7 years**
**(Cl. D87—3)**





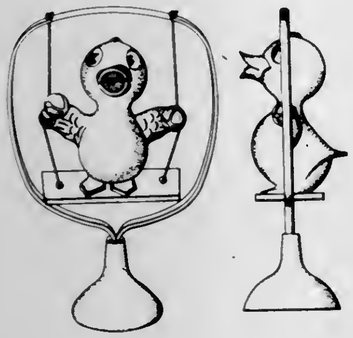
The ornamental design for a bag, substantially as shown.

**170,081**
**FIGURE TOY**
**Benjamin Gelardin, New York, N. Y.**
**Application January 23, 1953, Serial No. 23,279**
**Term of patent 7 years**
**(Cl. D34—15)**



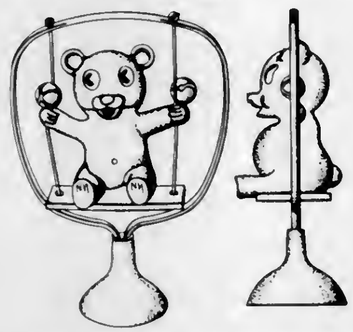
The ornamental design for a figure toy, as shown.

**170,082**
**FIGURE TOY**
**Benjamin Gelardin, New York, N. Y.**
**Application January 26, 1953, Serial No. 23,302**
**Term of patent 7 years**
**(Cl. D34—15)**



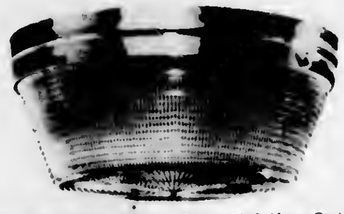
The ornamental design for a figure toy, as shown.

**170,083**
**FIGURE TOY**
**Benjamin Gelardin, New York, N. Y.**
**Application February 2, 1953, Serial No. 23,403**
**Term of patent 7 years**
**(Cl. D34—15)**



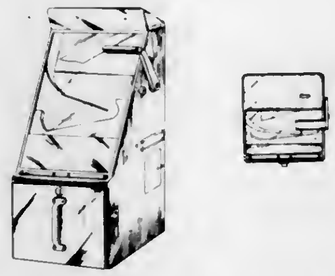
The ornamental design for a figure toy, as shown.

**170,084**
**LIGHTING FIXTURE**
**George E. Glatthar, University Heights, and Arthur W. Matteson, Lakewood, Ohio, assignors to The Art Metal Company, Cleveland, Ohio, a corporation of Ohio**
**Application December 5, 1952, Serial No. 22,573**
**Term of patent 14 years**
**(Cl. D48—23)**



The ornamental design for a lighting fixture, as shown.

**170,085**
**FARE BOX**
**Max L. Grant, Providence, R. I.**
**Application May 25, 1951, Serial No. 15,314**
**Term of patent 14 years**
**(Cl. D52—4)**



The ornamental design for a fare box, as shown and described.

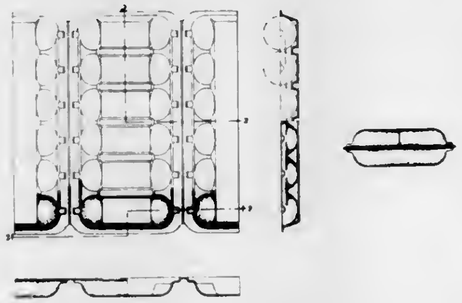


**170,086**
**TELEPHONE SHOULDER REST**
**Sydney E. Harmon, Evanston, Ill.**
**Application January 29, 1953, Serial No. 23,341**
**Term of patent 14 years**
**(Cl. D26—14)**



The ornamental design for a telephone shoulder rest, as shown.

**170,087**
**BOX FOR CYLINDRICAL ARTICLES**
**Fred C. Harper, Waterville, Maine; Hazel H. Harper, executrix of Fred C. Harper, deceased, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine**
**Application May 16, 1952, Serial No. 19,747**
**Term of patent 14 years**
**(Cl. D58—13)**

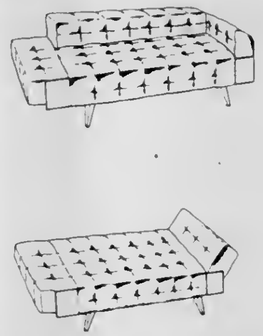


The ornamental design for a box for cylindrical articles, as shown and described.

**170,088**
**COMBINATION SOFA AND COUCH**
**Melvin J. Hoffman, Newton, Mass., assignor to Parkway Furniture Manufacturing Company, Lawrence, Mass., a corporation of Massachusetts**
**Application July 15, 1952, Serial No. 20,615**
**Term of patent 7 years**
**(Cl. D15—11)**

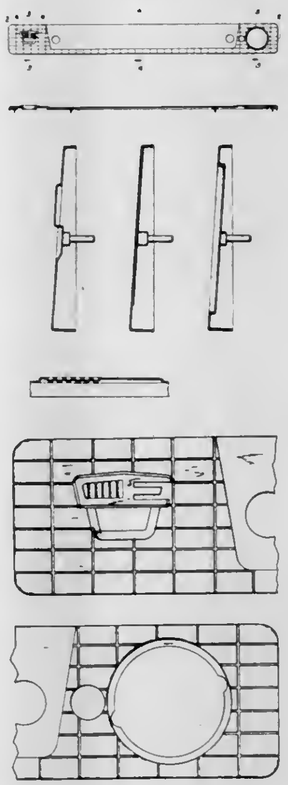


**170,088—Continued**



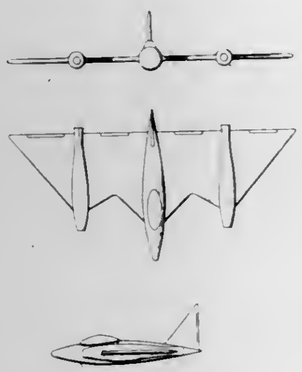
The ornamental design for a combination sofa and couch, as shown and described.

**170,089**
**PANEL FOR A LAUNDRY APPLIANCE OR THE LIKE**
**Walter W. Hoyle, Syracuse, N. Y.**
**Application December 17, 1952, Serial No. 22,743**
**Term of patent 14 years**
**(Cl. D49—1)**



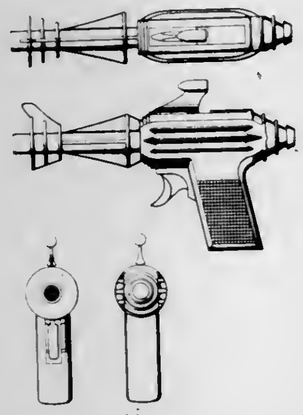
The ornamental design for a panel for a laundry appliance or the like, substantially as shown.

**170,090**
**AIRPLANE**
Alexander M. Lippisch, Cedar Rapids, Iowa
Application April 13, 1953, Serial No. 24,480
Term of patent 14 years
(Cl. D71—1)



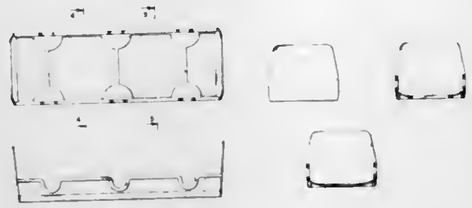
The ornamental design for an airplane as shown.

**170,091**
**TOY CAP PISTOL OR SIMILAR ARTICLE**
Frederick J. Maywald, Rutherford, N. J., assignor to The J. & E. Stevens Sales Company, New York, N. Y., a corporation of Delaware
Application March 9, 1953, Serial No. 23,965
Term of patent 14 years
(Cl. D34—15)



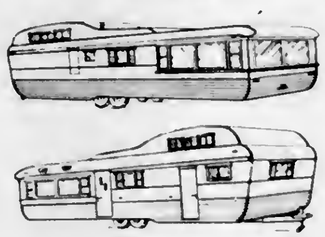
The ornamental design for a toy cap pistol or similar article, as shown.

**170,092**
**TRAY FOR A WRAPPED FRUIT CONTAINER**
Joseph E. Murphy, Hicksville, and Murray Schnall, Brooklyn, N. Y., assignors to See-Qual Package Corp., New York, N. Y., a corporation of New York
Application May 5, 1953, Serial No. 24,862
Term of patent 14 years
(Cl. D44—10)



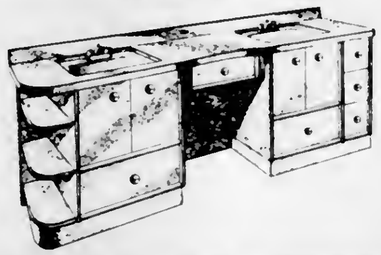
The ornamental design for a tray for a wrapped fruit container, substantially as shown.

**170,093**
**TRAILER COACH**
Myron C. Poole, Elwood, Ind., assignor to Holan Engineering Co., Inc., Elwood, Ind.
Application January 23, 1953, Serial No. 23,270
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a trailer coach, as shown.

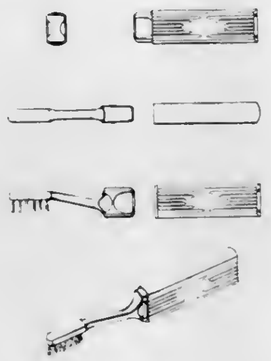
**170,094**
**COMBINATION SINK AND CABINET UNIT**
Edward W. Schmitt, Cincinnati, Ohio
Application February 13, 1953, Serial No. 23,600
Term of patent 7 years
(Cl. D33—19)



The ornamental design for a combination sink and cabinet unit, as shown.

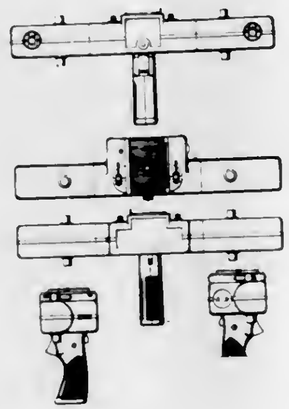


**170,095**
**COMBINATION TOOTHBRUSH AND CASING THEREFOR**
Murray Schotland, New York, N. Y.
Application January 15, 1953, Serial No. 23,146
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a combination toothbrush and casing therefor, substantially as shown, and described.

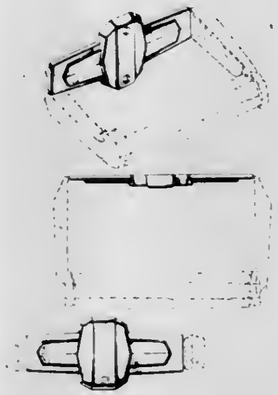
**170,096**
**COMBINED LIGHT BAR AND CAMERA MOUNT**
Herman L. Seiden, Chicago, Ill.
Application August 20, 1952, Serial No. 21,124
Term of patent 14 years
(Cl. D61—1)



The ornamental design for a combined light bar and camera mount, as shown.

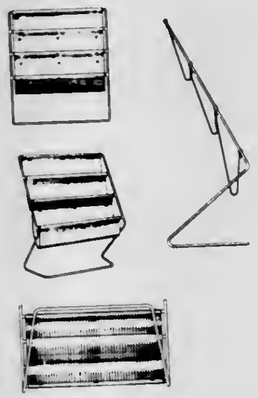


**170,097**
**BRACKET FOR TOILET TISSUE HOLDERS**
Paul F. Simpson, Washington, Conn., assignor to The Autoyre Company, Oakville, Conn., a corporation of Connecticut
Application April 28, 1953, Serial No. 24,742
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a bracket for toilet tissue holders, substantially as shown and described.

**170,098**
**MAGAZINE RACK**
Keith N. Swanson, Santa Barbara, Calif.
Application February 16, 1953, Serial No. 23,624
Term of patent 14 years
(Cl. D33—2)



The ornamental design for a magazine rack, as shown.

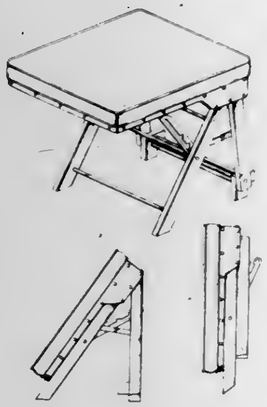
**170,099**
**TUMBLER OR SIMILAR ARTICLE**
Fran Taylor, Canal Winchester, Ohio, assignor to Gay Fad Studios Company, Lancaster, Ohio, a corporation of Ohio
Application March 1, 1952, Serial No. 18,741
Term of patent 3½ years
(Cl. D36—8)



The ornamental design for a tumbler or similar article, substantially as described and shown.

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**170,100**
**CONVERTIBLE OTTOMAN AND BACK REST UNIT**
Francis Torsak, Los Angeles, Calif.
Application April 27, 1953, Serial No. 24,676
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a convertible ottoman and back rest unit, substantially as shown.

**170,101**
**LADY'S STOCKING**
John K. Voehringer, Jr., Greensboro, N. C., assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application August 14, 1951, Serial No. 16,264
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown and described.

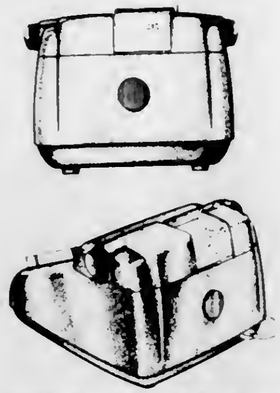
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**170,102**
**ADDING MACHINE**
George W. Walker, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application November 5, 1952, Serial No. 22,127
Term of patent 14 years
(Cl. D64—11)





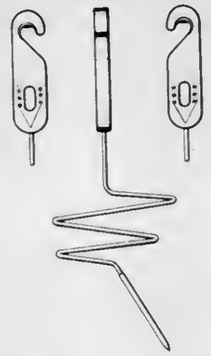
**170,102—Continued**



The ornamental design for an adding machine, substantially as shown.

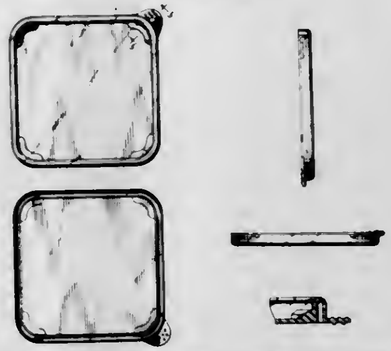
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**170,103**
**ELECTRIC FENCE TESTER**
Robert M. Wilson, Battle Creek, Mich., assignor to Dare Products, Incorporated, Battle Creek, Mich., a corporation of Michigan
Application March 5, 1952, Serial No. 18,778
Term of patent 14 years
(Cl. D26—1)



The ornamental design for an electric fence tester, substantially as shown and described.

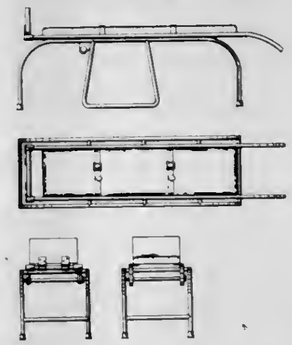
**170,104**
**BOX COVER**
William C. P. Zabel, Chicago, Ill., and Paul Young, Midland, Mich., assignors to Associated Plastic Companies, Inc., Chicago, Ill., a corporation of Delaware
Application July 24, 1952, Serial No. 20,741
Term of patent 14 years
(Cl. D58—12)



The ornamental design for a box cover, as shown.

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**170,105**
**PORTABLE TILT-TABLE**
Arthur Zampini, Flushing, N. Y.
Application November 4, 1952, Serial No. 22,116
Term of patent 14 years
(Cl. D5—4)



The ornamental design for a portable tilt-table, as shown and described.

August 4, 1953 Volume 673 Number 1

# Official Gazette

## UNITED STATES PATENT OFFICE

## Department of Commerce

SINCLAIR WEEKS, *Secretary*

## U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

## Condition of Applications Under Examination at Close of Business July 17, 1953

Total number of patent applications awaiting action, 99,919. Date of oldest new application, October 2, 1952; date of oldest amended application, October 6, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| *(C. E. D.) KEELY, J. E. | | | |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 10-8-52 | 10-8-52 | 1465 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 11-3-52 | 10-15-52 | 1217 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 11-28-52 | 11-25-52 | 1877 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 10-25-52 | 10-27-52 | 1466 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates. | 11-7-52 | 11-8-52 | 992 |
| 6. SURLE, H., Carbon Chemistry (part) | 10-2-52 | 10-6-52 | 2649 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 11-1-52 | 11-4-52 | 1632 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 11-10-52 | 11-10-52 | 1608 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 10-21-52 | 10-21-52 | 1230 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 11-18-52 | 11-18-52 | 1344 |
| 11. BENHAM, E. V., Boots, Shoes and Leggins; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 10-21 52 | 10-22-52 | 1141 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 10-31-52 | 10-23-52 | 1187 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 10-17-52 | 10-17-52 | 1263 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 11-10-52 | 11-4-52 | 1468 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 10-20-52 | 10-17-52 | 1657 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 10-18-52 | 10-18-52 | 1683 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 10-25-52 | 10-24-52 | 1541 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 11-13-52 | 10-18-52 | 715 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 10-28-52 | 10-13-52 | 1188 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 11-19-52 | 11-18-52 | 1278 |
| 21. MADER, R. C., Textiles | 10-18-52 | 10-18-52 | 1365 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 11-6-52 | 11-10-52 | 1038 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 10-18-52 | 10-20-52 | 874 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 12-23-52 | 12-17-52 | 1009 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 10-14-52 | 10-14-52 | 1335 |
| 26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 11-17-52 | 11-17-52 | 1881 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 10-24-52 | 10-24-52 | 1224 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 12-3-52 | 11-28-52 | 1086 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 10-20-52 | 10-21-52 | 1132 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 12-22-52 | 12-22-52 | 1317 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 10-17-52 | 10-17-52 | 2437 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-13-52 | 11-12-52 | 1208 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 10-31-52 | 11-1-52 | 1866 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 10-17-52 | 10-17-52 | 1299 |
| 35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles | 12-15-52 | 12-10-52 | 1180 |
| 36. McFADYEN, A. D., Measuring and Testing | 11-7-52 | 10-31-52 | 1091 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 11-13-52 | 11-19-52 | 1687 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 11-1-52 | 11-6-52 | 1537 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 12-23-52 | 12-20-52 | 1624 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 2-2-53 | 2-2-53 | 964 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | 11-19-52 | 11-15-52 | 1546 |

*Commissioners' Examiner's Division.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 10-25-52 | 10-30-52 | 1992 |
| 43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-20-52 | 10-20-52 | 1816 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 11-6-52 | 11-14-52 | 1373 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 10-18-52 | 10-17-52 | 1115 |
| 47. KONOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 10-23-52 | 10-23-52 | 1589 |
| 48. BERNSTEIN S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting. | 10-22-52 | 10-16-52 | 2020 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 11-6-52 | 11-3-52 | 1412 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 12-31-52 | 1-9-53 | 1538 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 10-28-52 | 10-28-52 | 1606 |
| 52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 12-2-52 | 12-2-52 | 1853 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 11-19-52 | 11-20-52 | 991 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications. | 10-30-52 | 10-29-52 | 1841 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 11-19-52 | 11-12-52 | 952 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 12-2-52 | 12-2-52 | 1278 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 11-10-52 | 11-6-52 | 1738 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons. | 10-21-52 | 10-20-52 | 1389 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 11-17-52 | 11-18-52 | 1409 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 11-19-52 | 11-17-52 | 965 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 11-20-52 | 11-18-52 | 1199 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 10-18-52 | 10-21-52 | 1874 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 10-27-52 | 10-21-52 | 1782 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316). | 11-12-52 | 11-17-52 | 810 |
| 66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales | | | |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 11-28-52 | 11-12-52 | 1702 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 12-8-52 | 12-8-52 | 1412 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 10-31-52 | 10-25-52 | 1717 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 10-9-52 | 10-8-52 | 3399 |
| DESIGNS: A—BREHM, G. L., Industrial Arts | 3-18-53 | 3-20-53 | 949 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 3-23-53 | 3-20-53 | 896 |

Number of new applications received week ending June 26, 1953

PATENTS 1,546 DESIGNS 101 REISSUES 2 TOTAL 1,649

Total number of trade-mark applications awaiting action (including renewals and republications), 10,949.
Date of oldest new application, Feb. 20, 1953; date of oldest amended application, Feb. 20, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 2-20-53 | 2-20-53 | 2734 |
| II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 2-24-53 | 3-2-53 | 2626 |
| Renewals (All Classes) | 5-15-53 | 6-17-53 | 485 |
| Republications (All Classes) | 5-20-53 | 6-3-53 | 222 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 3-10-53 | 3-10-53 | 2528 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 3-4-53 | 2-24-53 | 2354 |

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A & A Manufacturing Company, Milwaukee, Wis. Protective sleeves, boots, and covers which goods are sewn and otherwise fabricated from a neoprene base material, etc. Serial No. 635,866, Aug. 4. Class 35.

Abel & Bach Inc., Milwaukee, Wis. Hand luggage. Serial No. 636,106, Aug. 4. Class 3.

Absentee Automatic Water Control Company: *See*—
Hendry, David W.

Adams, William, Limited, Birmingham, England. Waiters, entree dishes, teasets, etc. Serial No. 631,709, Aug. 4. Class 28.

Advance Process Supply Co., Chicago, Ill. Silk screen colored inks, clear inks, etc. Serial No. 629,272, Aug. 4. Class 11.

Aeroplane Spinner Manufacturing Co.: *See*—
Scanlan, Elizabeth S.

Affiliated Retailers, Inc., New York, N. Y. Toilet tissue and toilet paper, wax paper, etc. Serial No. 614,683, Aug. 4. Class 37.

Air Preheater Corporation, The, Wellsville, N. Y. Heat exchange apparatus. Serial No. 619,493, Aug. 4. Class 34.

Aktieselskab Quality Canning Co. Limited, assignor to Trygve Olsen & Co. Aktieselskab, Stavanger, Norway. Canned sardines. Serial No. 633,289, Aug. 4. Class 46.

American Cyanamid Company, New York, N. Y. Geriatric mineral supplement with hormones. Serial No. 638,387, Aug. 4. Class 18.

American Home Products Corporation, assignee: *See*—
Wyeth Incorporated.

American Linen Supply Co., sometimes doing business as Steiner Sales Company, division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Paper toilet tissue. Serial No. 640,662, Aug. 4. Class 37.

American Public Health Association, New York, N. Y. Achievement testing services. Serial No. 628,991, Aug. 4. Class 100.

Ames, Butler, Lowell, Mass. Outer and under shirts. Serial No. 631,775, Aug. 4. Class 39.

Andre French Ice Cream Co., Inc., Brooklyn, N. Y. Bulk and packaged ice-cream, ice-cream sandwiches, bisque tortoni, etc. Serial No. 645,450, Aug. 4. Class 46.

Ansul Chemical Company, Marinette, Wis. Desiccant for refrigerants. Serial No. 644,950, Aug. 4. Class 6.

Archdale Manufacturing Company, Inc., High Point, N. C. Ladies' slips and half slips. Serial No. 630,053, Aug. 4. Class 39.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets, billfolds, purses, etc. Serial No. 639,547, Aug. 4. Class 3.

Armour and Company, Chicago, Ill. Soap especially formulated for wire-drawing. Serial No. 637,972, Aug. 4. Class 15.

Armour and Company, Chicago, Ill. Quaternary ammonium compositions. Serial No. 639,006, Aug. 4. Class 18.

Army and Navy Journal, Inc., Washington, D. C. Periodical. Serial No. 599,481, Aug. 4. Class 38.

Artistic Foundations, Inc., New York, N. Y. Girdles. Serial No. 643,578, Aug. 4. Class 39.

Atlanta Stove Works, Inc., Atlanta, Ga. Portable grill. Serial No. 638,390, Aug. 4. Class 34.

Aug. Stenman Aktiebolag, Eskilstuna, Sweden. Door locksets. Serial No. 622,423, Aug. 4. Class 25.

Austenal Laboratories, Incorporated, New York, N. Y. Dental prosthetic appliances and for surgical appliances. Serial Nos. 635,342–3, Aug. 4. Class 44.

Barclay, Robert, & Company Limited, Manchester, England. Piece goods. Serial No. 640,142, Aug. 4. Class 42.

Bar's Products Supply: *See*—
Barton, Frederic D.

Barton, Frederic D., doing business under the fictitious name and style of Bar's Products Supply, Dearborn, Mich. Radiator leak sealer, rust preventative, and rust inhibitor. Serial No. 644,714, Aug. 4. Class 6.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Cotton rugs and carpeting. Serial No. 642,930, Aug. 4. Class 42.

Bausch & Lomb Optical Company, Rochester, N. Y. Objective lenses. Serial No. 625,784, Aug. 4. Class 26.

Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle cases. Serial No. 630,751, Aug. 4. Class 26.

Beach Soap Company, Lawrence, Mass. Synthetic detergent. Serial No. 633,193, Aug. 4. Class 52.

Beatrice Foods Co., Chicago, Ill. Butter; oleomargarine; eggs, etc. Serial No. 636,582, Aug. 4. Class 46.

Beautee-Fit Company, Los Angeles, Calif. Brassières, foundation garments, girdles, etc. Serial No. 634,441, Aug. 4. Class 39.

Bedford Shirt Corp., New York, N. Y. Men's and boys' dress and sport shirts. Serial No. 622,137, Aug. 4. Class 39.

Belenky Bros., Inc., New York, N. Y. Bracelets, necklaces, chokers, etc. Serial No. 632,197, Aug. 4. Class 28.

Belgard, Austin B., Chicago, Ill. Lenses and frames. Serial No. 620,084, Aug. 4. Class 26.

Benya Drug Company, Wernersville, Pa. Vitamin and mineral food supplement preparation. Serial No. 638,238, Aug. 4. Class 18.

Bowman Chemicals, Inc., Los Angeles, Calif. Chemically treating metal products. Serial No. 629,544, Aug. 4. Class 106.

Bradley, Milton, Company, Springfield, Mass. Board game. Serial No. 646,261, Aug. 4. Class 22.

Brambler, Irving, doing business as Ed-U-Cards, New York, N. Y. Educational card game. Serial No. 631,650, Aug. 4. Class 22.

Brand & Oppenheimer Incorporated, New York, N. Y. Textile fabrics. Serial No. 630,983, Aug. 4. Class 42.

Brantford Cordage Company, Limited, The, Brantford, Canada. Twine. Serial No. 642,011, Aug. 4. Class 7.

Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shades. Serial No. 640,602, Aug. 4. Class 32.

Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shades. Serial No. 640,604, Aug. 4. Class 32.

Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shade rollers. Serial No. 640,723, Aug. 4. Class 32.

Breneman-Hartshorn Inc., Cincinnati, Ohio. Embossed plastic shade cloth. Serial No. 640,782, Aug. 4. Class 42.

Bridge, Beach & Co.: *See*—
Clawson, H. R.

Bridgeport Brass Company, Bridgeport, Conn. Insect repellent. Serial No. 644,826, Aug. 4. Class 6.

Briggs, John J., doing business as Briggs' Laboratory Products Company, Indianapolis, Ind. Pharmaceutical preparation. Serial No. 636,113, Aug. 4. Class 18.

Briggs' Laboratory Products Company: *See*—
Briggs, John J.

Cadillac Stamp Company, Inc., Detroit, Mich. Steel stamps, embossing and marking dies, power and hand marking machines. Serial No. 582,404, Aug. 4. Class 23.

Calcinator Corporation, assignee: *See*—
Valley Welding & Broiler Company.

Callaway Mills Company, La Grange, Ga. Cotton scatter rugs. Serial No. 642,523, Aug. 4. Class 42.

Camille Designs, Inc., St. Louis, Mo. Men's, women's, and misses' shoes. Serial No. 622,248, Aug. 4. Class 39.

Campbell & McClintock, Scarsdale, N. Y. Grooved phonograph records. Serial No. 637,238, Aug. 4. Class 36.

Capozzi, Daniel J., doing business under the name of Danvin Associates, New York, N. Y. Sun-glasses. Serial No. 641,715, Aug. 4. Class 26.

Carmel, David B., & Co., Inc., New York, N. Y. Interlining fabrics. Serial No. 641,269, Aug. 4. Class 42.

Carwood Manufacturing Company, Winder, Ga. Men's and boys' work pants, work shirts, overalls, etc. Serial No. 630,577, Aug. 4. Class 39.

Case Safety Products, Inc., Cleveland, Ohio. Safety goggle lenses and safety glass lenses. Serial No. 630,664, Aug. 4. Class 26.

Champ Products Corporation, Union City, Ind. Ladies' hand bags and pocketbooks. Serial No. 640,498, Aug. 4. Class 3.

Chapman Chemical Company, Memphis, Tenn. Insecticides. Serial No. 644,733, Aug. 4. Class 6.

Charak Furniture Company, Boston, Mass. Extension tables. Serial No. 640,145, Aug. 4. Class 32.

Charleston Electrical Supply Company, Charleston, W. Va. Printed publications. Serial No. 643,289, Aug. 4. Class 38.

Chemische Werke Albert, Amoneburg, Germany. Therapeutic products. Serial No. 628,919, Aug. 4. Class 18.

City Stores Company, assignee: *See*—
Lansburgh & Bro.

Clairol Incorporated, Stamford, Conn. Hair shade lightening preparations. Serial No. 620,802, Aug. 4. Class 51.

Clawson, H. R., doing business as Bridge Beach & Co., San Francisco, Calif. Gas ranges, gas space heaters, coal or wood ranges, etc. Serial No. 569,052, Aug. 4. Class 34.

Colorado Milling & Elevator Co., The, doing business under the style names of The Hungarian Flour Mills and The Denver Flour Mills Co., Denver, Colo., and elsewhere. Wheat flour. Serial No. 552,123, Aug. 4. Class 46.

Cook & Dunn Paint Corp., Newark, N. J. Paints, varnish, stains, and shellacs. Serial No. 634,300, Aug. 4. Class 16.

Coutinho, Henri, doing business as The Sintox Company, New York, N. Y. Insect repellent. Serial No. 634,140, Aug. 4. Class 6.

Crescendoe Gloves, Inc., Johnstown, N. Y. Ladies' and misses' fabric gloves. Serial No. 642,804, Aug. 4. Class 39.

Dandrup Corporation, Highwood, Ill. Skin cleanser and lotion. Serial No. 635,819, Aug. 4. Class 51.
Danvin Associates: *See*—
Capozzi, Daniel J.
Day's Tailor-D Clothing, Inc., doing business as WPL 7997, Tacoma, Wash. Men's slacks. Serial No. 641,277, Aug. 4. Class 39.
Decatur Pump Company, Decatur, Ill. Water pumps and parts thereof. Serial No. 635,525, Aug. 4. Class 23.
Decatur Pump Company, Decatur, Ill. Water pumps and water pumping units. Serial No. 636,063, Aug. 4. Class 23.
De Goss Laboratories, New York, N. Y. Cleaning and polishing compounds. Serial No. 618,846, Aug. 4. Class 4.
Dejanium Carbon Corporation, New York, N. Y. Heat exchangers. Serial Nos. 638,757–8, Aug. 4. Class 34.
Delta Optical Co., Inc., New York, N. Y. Lenses, spectacles and sun glasses. Serial No. 625,974, Aug. 4. Class 26.
Denver Flour Mills Co., The: *See*—
Colorado Milling & Elevator Co., The.
Device Development Company: *See*—
Ellison, Arnold B.
Dexter Press, Inc., West Nyack, N. Y. Colored pictorial post cards and colored pictures. Serial No. 641,672, Aug. 4. Class 38.
Dickman & Wyrsch, Cupertino, Calif. Medicine for treating the genitals of animals. Serial No. 633,719, Aug. 4. Class 18.
Dolge, C. B., Company, The, Westport, Conn. Preparation for exterminating moles. Serial No. 645,758, Aug. 4. Class 6.
Dow Chemical Company, The, Midland, Mich. Synthetic resinous plastics. Serial No. 601,605, Aug. 4. Class 1.
Duroloid Optical Company, Providence, R. I. Optical frames. Serial No. 632,833, Aug. 4. Class 26.
Duron Paint Manufacturing Company, Washington, D. C. Ready-mixed paint, varnishes, wood stains, etc. Serial No. 617,653, Aug. 4. Class 16.
E-Z Buckle, Inc., New York, N. Y. Buckles. Serial No. 637,918, Aug. 4. Class 40.
E Z Paintr Corporation, assignee: *See*—
E-Z Paintr Corporation.
E-Z Paintr Corporation, Butler, assignor to E Z Paintr Corporation, Milwaukee, Wis. Paint rollers and paint roller covers. Serial No. 607,492, Aug. 4. Class 29.
Ecker, Will, & Co., St. Louis, Mo. Printed calling cards. Serial No. 634,637, Aug. 4. Class 38.
Ed-U-Cards: *See*—
Brambler, Irving.
Einiger Mills, Inc., New York, N. Y. Textile fabrics. Serial No 630,317, Aug. 4. Class 42.
Electric Sprayit Company, The, Sheboygan, Wis. Air pressure regulating valves. Serial No. 629,995, Aug. 4. Class 13.
Electrodyne Co., Norwood, Mass. Electro-physiological device. Serial No. 642,532, Aug. 4. Class 44.
Ellison, Arnold B., doing business under the trade name and style of Device Development Company, New York, N. Y. Slide rules. Serial No. 630,998, Aug. 4. Class 26.
Engineering Manufacturing Company, Sheboygan, Wis. Drafting room equipment. Serial No. 631,854, Aug. 4. Class 26.
Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. Serial No. 646,059, Aug. 4. Class 22.
Federal Tool Engineering, Inc., Newark, N. J. Condenser power units, and electric welding apparatus. Serial No. 607,543, Aug. 4. Class 21.
Federated Department Stores, Inc., Cincinnati, Ohio. Outboard motors. Serial No. 642,875, Aug. 4. Class 23.
Feldman Fruit Company: *See*—
Feldman, Harry.
Feldman, Harry, doing business as Feldman Fruit Company, East Chicago, Ind. Onions. Serial No. 643,414, Aug. 4. Class 46.
Fichtel & Sachs Aktiengesellschaft, Schweinfurt am Main (West), Germany. Bicycles, motorcycles, motorbicycles, etc. Serial No. 624,716, Aug. 4. Class 19.
Finch, H. G., Rocky Mount, N. C. Marble games. Serial No. 635,359, Aug. 4. Class 22.
Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic food flavorings. Serial No. 594,263, Aug. 4. Class 46.
Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.
Flautt, John, Shoe Company Inc., Lynn, Mass. Men and Women's shoes, sandals and slippers. Serial No. 639,030, Aug. 4. Class 39.
Flomar Products Company, Milwaukee, Wis. Bath crystals, bath oil, and personal deodorant. Serial No. 627,936, Aug. 4. Class 51.
Foilcraft Printing Corporation, Brooklyn, N. Y. Plain and paper-backed foil products. Serial No. 631,207, Aug. 4. Class 37.
Food Specialties, Inc., Plymouth, Mass. Combination package consisting of yeast, flour mixture and pizza sauce. Serial No. 643,481, Aug. 4. Class 46.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 642,539, Aug. 4. Class 42.
"4711" Limited, Beverly Hills, Calif. Lanolin esters. Serial No. 639,582, Aug. 4. Class 51.
Franklin & Lasoff, Inc., Boston, Mass. Men's and boys' caps and hats. Serial No. 640,451, Aug. 4. Class 39.
Fraser Paper, Limited, Madawaska, Maine. Opaque circular printing papers. Serial No. 636,473, Aug. 4. Class 37.
Freeman, Frederick R., doing business as Freeman Publishing Co., Kansas City, Mo. Educational game. Serial No. 644,026, Aug. 4. Class 22.
Freeman Publishing Co.: *See*—
Freeman, Frederick R.
Freeport Shoe Company, Freeport, Maine. Women's shoes. Serial No. 610,549, Aug. 4. Class 39.
Frohlich, Israel, doing business as Globe Optical Co., New York, N. Y. Sun glasses and parts thereof. Serial No. 618,737, Aug. 4. Class 26.
Fuji Photo Optical Co., Ltd., Omiya-Shi, Saitama Prefecture, Japan. Binoculars. Serial No. 626,506, Aug. 4. Class 26.
Fyfe, R. H., & Co., Detroit, Mich. Children's boots, shoes, and slippers. Serial No. 642,512, Aug. 4. Class 39.
G. G. G. Corporation, The: *See*—
Workshop Associates, Incorporated, The.
Gabriel Company, The, assignee: *See*—
Workshop Associates, Incorporated, The.
Gates Rubber Company, The, Denver, Colo. Garden hose. Serial No. 645,976, Aug. 4. Class 35.
General Controls Co., Glendale, Calif. Voltmeters, thermostats with electrical contacts, etc. Serial No. 553,842, Aug. 4. Class 26.
General Tire & Rubber Company, The, Akron, Ohio. Flexible polymeric material. Serial No. 629,662, Aug. 4. Class 1.
Gernetebau-Anstalt, Balzers, Liechtenstein. Optical mirrors, light filters, interference filters. Serial No. 624,740, Aug. 4. Class 26.
Gey Products Corporation, Cambridge, Mass. Cigarette lighter fuel filler. Serial No. 641,834, Aug. 4. Class 8.
Gilbert, A. C., Company, The, New Haven, Conn. Portable electrically operated vibrating appliance for massaging the human body. Serial No. 643,094, Aug. 4. Class 44.
Globe Optical Co.: *See*—
Frohlich, Israel.
Goodall-Sanford, Inc., Sanford, Maine. Piece goods. Serial No. 639,562, Aug. 4. Class 42.
Gospel Trumpet Company, Anderson, Ind. Greeting cards. Serial No. 634,590, Aug. 4. Class 38.
Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. Serial No. 641,447, Aug. 4. Class 42.
Green, M. D., Rice Milling Co.: *See*—
Green, Monroe D.
Green, Monroe D., trading as M. D. Green Rice Milling Co., San Francisco, Calif. Rice. Serial No. 607,547, Aug. 4. Class 46.
Harriet Cotton Mills, Henderson, N. C. Carded cotton yarn. Serial No. 626,325, Aug. 4. Class 43.
Hausman, M., & Sons, Inc., New York, N. Y. Piece goods. Serial No. 644,113, Aug. 4. Class 42.
Hawley Products Company, St. Charles, Ill. Fibrous molded cans. Serial No. 593,349, Aug. 4. Class 39.
Heering, Peter F.: *See*—
Heering, Peter F. S.
Heering, Peter F. S., doing business as Peter F. Heering, Copenhagen, Denmark. Liqueurs. Serial No. 545,373, Aug. 4. Class 49.
Heltman, Walter G., Bellevue, Ohio. Rust remover having an abrasive ingredient. Serial No. 625,011, Aug. 4. Class 4.
Hendry, David W., doing business under the fictitious name and style of Absentee Automatic Water Control Company, Stockton, Calif. Electric time switch units. Serial No. 665,306, Aug. 4. Class 26.
Hinden Limited, Birmingham, England. Hair brushes, clothes brushes, dog brushes, etc. Serial No. 642,352, Aug. 4. Class 29.
Hollis Music, Inc., New York, N. Y. Grooved phonograph records. Serial No. 633,308, Aug. 4. Class 36.
Holt, George C., Inc.: *See*—
Holt Pen Company, The.
Holt Pen Company, The, Crompton, R. I., by change of name from George C. Holt, Inc. Pens and mechanical pencils. Serial No. 584,061, Aug. 4. Class 37.
Horne, J. Leslie, Oklahoma City, Okla. Photographs, reprints of photographs, and pictures. Serial No. 641,508, Aug. 4. Class 38.
House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' coats, suits, jackets, and skirts. Serial No. 641,301 Aug. 4. Class 39.
Hudnut, Richard, New York, N. Y. Liquid hair bleach. Serial No. 635,767, Aug. 4. Class 51.
Hudson Engineering Corporation, Houston, Tex. Water cooling towers and air-cooled heat exchangers. Serial No. 613,711, Aug. 4. Class 31.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Fire pumps. Serial No. 642,642, Aug. 4. Class 23.
Hudson Products: *See*—
Wernet Dental Mfg. Co., Inc.
Huffman Manufacturing Company, The, Dayton, Ohio Bicycle frames. Serial No. 599,435, Aug. 4. Class 19
Hungarian Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.
Hurricane Manufacturing Company, Miami, Fla. Fishing tackle. Serial No. 643,325, Aug. 4. Class 22.
Ibroc Wood Products Co.: *See*—
Meltzer, Robert M.



Industrial Electrical Works: *See*—
Stahmer, Bernhardt.
Inland Products, Inc., Columbus, Ohio. Canned dog food. Serial No. 643,764, Aug. 4. Class 46.
Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Bentonite, blanc rouge, china clay, etc. Serial Nos. 621,014–15, Aug. 4. Class 1.
Innocenti Soc. Generale per l'Industria Metallurgica e Meccanica, Milan, Italy. Automobiles, motor cycles, motor scooters, etc. Serial No. 640,091, Aug. 4. Class 19.
Installment Retailing, Inc., New York, N. Y. Magazines. Serial No. 637,379, Aug. 4. Class 38.
International Minerals & Chemical Corporation, assignee: *See*—
Innis, Speiden & Co., Inc.
International Minerals & Chemical Corporation, Chicago, Ill. Defluorinated phosphate. Serial No. 637,594, Aug. 4. Class 18.
Interstate Bakeries Corporation, Kansas City, Mo., doing business as Schulze Baking Company, Chicago, Ill., and elsewhere, Weber Baking Co., Los Angeles, Calif., and elsewhere, Mrs. Karl's Bakeries, Inc., Milwaukee, Wis., and O'Rourke Baking Co., Buffalo, N. Y. Bread. Serial No. 629,303, Aug. 4. Class 46.
Jungerich, Frank L., St. Louis, Mo. Aspirin tablets. Serial No. 584,496, Aug. 4. Class 18.
Jaymar Specialty Company, Brooklyn, N. Y. Jigsaw puzzle game. Serial No. 643,593, Aug. 4. Class 22.
Jolson, Leon, doing business under the name of Jolson Sewing Machine Co., New York, N. Y. Sewing machines, sewing machine parts, sewing machine supplies, etc. Serial No. 622,022, Aug. 4. Class 23.
Jolson Sewing Machine Co.: *See*—
Jolson, Leon.
K. B. Doll Corporation, New York, N. Y. Dolls. Serial No. 634,472, Aug. 4. Class 22.
K. C. Boyswear Mfg. Co., Kansas City, Mo. Boys' outer clothing. Serial No. 639,688, Aug. 4. Class 39.
Kalart Company Inc., The, Plainville, Conn. Film splicers, film winders, and carrying cases. Serial No. 615,712, Aug. 4. Class 26.
Karg Brothers, Inc., Johnstown, N. Y. Leather. Serial No. 639,227, Aug. 4. Class 1.
Karl's, Mrs., Bakeries, Inc.: *See*—
Interstate Bakeries Corporation.
Kaylon Incorporated, New York, N. Y. Ladies' and girls' pajamas, pajama coats, beach coats, etc. Serial No. 632,034, Aug. 4. Class 39.
Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England. Piston type directional valves; flow control, speed control, and pressure reducing valves; etc. Serial No. 642,559, Aug. 4. Class 13.
Keuffel & Esser Company, Hoboken, N. J. Sensitized photographic papers and cloths. Serial No. 642,478, Aug. 4. Class 26.
King Research, Inc., Brooklyn, N. Y. Disinfectant and fungicide. Serial No. 643,340, Aug. 4. Class 6.
King-Seeley Corporation, Ann Arbor, Mich. Ammeters, oil pressure gauges, liquid level gauges, etc. Serial No. 588,495, Aug. 4. Class 26.
Kirkwood Industries, Inc., Los Angeles, Calif. Electric lighting fixtures. Serial No. 632,432, Aug. 4. Class 21.
Kismet: *See*—
Terkelson, James L.
Knapp Brothers Shoe Manufacturing Corporation, Brockton, Mass., and Lewiston, Maine. Men's, women's, and children's shoes. Serial No. 638,719, Aug. 4. Class 39.
Kono Manufacturing Company, The, Woodside, N. Y. Resinous plastic material. Serial No. 638,654, Aug. 4. Class 1.
Kurland Enterprises, Inc., Leonia, N. J. Scoreboard game. Serial No. 632,378, Aug. 4. Class 22.
Lakeside Central Company, Chicago, Ill. Boxed writing paper and correspondence envelopes and combination packages of sheet writing paper, etc. Serial No. 639,758, Aug. 4. Class 37.
Lansburgh & Bro., Washington, D. C., assignor to City Stores Company. Men's and boys' overcoats, coats, raincoats, etc. Serial No. 640,572, Aug. 4. Class 39.
Laszlo, Erno, Company, The, New York, N. Y. Beauty preparations. Serial No. 628,490, Aug. 4. Class 51.
Laszlo, Erno, Company, The, New York, N. Y. Beauty preparation. Serial Nos. 628,492–3, Aug. 4. Class 51.
Laszlo, Erno, Company, The, New York, N. Y. Beauty preparations. Serial No. 628,499, Aug. 4. Class 51.
Lee, Fran: *See*—
Weiss, Frances L.
Leeds Associates Inc., New York, N. Y. Wool fabrics in the piece. Serial No. 643,105, Aug. 4. Class 42.
Leeds and Northrup Company, Philadelphia, Pa. Electrical analyzing apparatus for polarographic analysis. Serial No. 642,480, Aug. 4. Class 26.
Lehn & Fink Products Corporation, Bloomfield, N. J. Form of lanolin chemically treated. Serial No. 641,849, Aug. 4. Class 6.
Leitz, Ernst, G. m. b. H., Wetzlar, Germany. Measuring microscopes, comparison microscopes, toolmakers' microscopes, etc. Serial No. 623,574, Aug. 4. Class 26.
Les Appareils de Précision Kinoptik S. A., Paris, France. Scientific, optical, photographic, and cinematographic apparatus. Serial No. 581,904, Aug. 4. Class 26.
Les Parfums de Dana, Inc., New York, N. Y. Perfume and cologne. Serial No. 634,147, Aug. 4. Class 51.
Liggett & Myers Tobacco Company, New York, N. Y. Cigarettes. Serial No. 643,160, Aug. 4. Class 17.
Lincoln Fabrics Co. Inc., New York, N. Y. Textile fabrics. Serial Nos. 642,360–1, Aug. 4. Class 42.
Long Manufacturing Co. Inc., Petersburg, Va. Locks, latches, and locking attachments. Serial No. 630,569, Aug. 4. Class 25.
Marshall Field & Company, Chicago, Ill. Pillows, mattresses, and box springs. Serial No. 640,519, Aug. 4. Class 32.
Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.
May, Ernest R., Albuquerque, N. Mex. Watermelon syrups. Serial No. 635,781, Aug. 4. Class 46.
McGinniss, George S., South Norwalk, Conn. Advertising services. Serial No. 616,960, Aug. 4. Class 101.
Meltzer, Robert M., doing business under the name and style of Ibroc Wood Products Co., Auburn, Maine. Household butcher block. Serial No. 623,553, Aug. 4. Class 23.
Midland Cooperative Dairy Association, Shawano, Wis., and Syracuse, N. Y. Evaporated milk. Serial No. 645,422, Aug. 4. Class 46.
Midwest Dental Manufacturing Co.: *See*—
Staunt, Martin.
Military Service Company, The, Birmingham, Ala. Baseballs, basketballs, bats, softballs, etc. Serial No. 597,451, Aug. 4. Class 22.
Miller, Florence: *See*—
Miller, Florence O.
Miller, Florence O., doing business as Florence Miller, Dallas, Tex. Liquid skin cleanser, skin freshener, non-alcoholic liquid skin astringent, etc. Serial No. 629,743, Aug. 4. Class 51.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. Serial No. 637,664, Aug. 4. Class 4.
Minwax Company, Inc., New York, N. Y. Caulking and filling compounds, metal shapes and caps for masonry joints, etc. Serial No. 630,543, Aug. 4. Class 12.
Mitchell, Harry, Brewing Company, El Paso, Tex. Beer. Serial No. 627,210, Aug. 4. Class 48.
Morganstern, Brooks & Company, Fredericksburg, Va. Waist band linings. Serial No. 638,209, Aug. 4. Class 40.
Morton-Withers Chemical Company, Greensboro, N. C. Plasticizers, esters, petroleum sulphonates, etc. Serial No. 640,522, Aug. 4. Class 6.
Moto-Mower Company, The, Detroit, Mich. Lawnmowers. Serial No. 642,761, Aug. 4. Class 23.
National Association of Radio and Television Broadcasters, Inc., Wilmington, Del., and Washington, D. C. Broadcasting of television programs. Serial No. 642,297, Aug. 4. Class 104.
National Tinsel Manufacturing Company, Manitowoc, Wis. Textile ribbons. Serial No. 641,078, Aug. 4. Class 42.
Nedick's, Inc., New York, N. Y. Serving and dispensing foods and beverages. Serial No. 637,497, Aug. 4. Class 100.
Neikin, Frances & Walter, Inc., New York, N. Y. Fabric and yarn cording. Serial No. 631,018, Aug. 4. Class 40.
New England Spun Silk Corporation, Brighton, Mass. Spun yarns. Serial No. 639,653, Aug. 4. Class 43.
Newport Finishing Corporation, Fall River, Mass. Metal insulated lining fabric. Serial No. 641,792, Aug. 4. Class 42.
New Way Pattern Company, Inc., The, New York, N. Y. Dress patterns. Serial No. 641,950, Aug. 4. Class 26.
No-Sag Spring Company, Detroit and Warren Township, Mich. Spring assembly for upholstered furniture, mattresses and box springs. Serial Nos. 631,944–5, Aug. 4. Class 32.
Old Colony Knitting Mills, Inc., Hingham, Mass. Ladies', misses' and children's sweaters. Serial No. 604,446, Aug. 4. Class 39.
Ontario Paper Company Limited, The, Township of Thorold, Ontario, Canada. Mixture of synthetic odoriferous or aromatic chemicals. Serial No. 645,055, Aug. 4. Class 6.
O'Rourke Baking Co.: *See*—
Interstate Bakeries Corporation.
Ortho Pharmaceutical Corporation, Raritan, N. J. Massage cream. Serial No. 637,609, Aug. 4. Class 51.
Paine, W. F., Ltd., Godalming, England. Men's and women's sweaters and men's and children's sport shirts and leisure jackets, etc. Serial No. 631,839, Aug. 4. Class 39.
Palmera Limited, Montreal, Quebec, Canada. Creams, lotions, and beauty salves. Serial No. 627,146, Aug. 4. Class 51.
Papierfabrik Schoeller & Hoesch G. m. b. H., Gernsbach, Germany. Condenser paper and condenser tissue. Serial No. 611,615, Aug. 4. Class 37.

Pass, Capper, & Son Limited, Bristol, England. Unwrought and partly wrought metals. Serial No. 637,300, Aug. 4. Class 14.
Paul, Richard, Inc., Wilmington, Del. Stocking feet. Serial No. 641,518, Aug. 4. Class 39.
Penick, S. B., & Company, New York, N. Y. Allethrin-synergist combinations for use as insecticides. Serial No. 644,446, Aug. 4. Class 6.
Penick, S. B., & Company, New York, N. Y. Insecticidal formulations. Serial No. 644,447, Aug. 4. Class 6.
Pennsylvania Crusher Company, Philadelphia, Pa. Stationary centerfeed crusher. Serial No. 641,859, Aug. 4. Class 23.
Pennsylvania Range Boiler Co., Philadelphia, Pa. Domestic water heaters. Serial No. 642,769, Aug. 4. Class 34.
Perry, Fernande, doing business as Sta-Tuk Industries, Eustis, Fla. Belts. Serial No. 620,955, Aug. 4. Class 39.
Peter Pan Foundations, Inc., New York, N. Y. Brassières. Serial No. 643,365, Aug. 4. Class 39.
Pilgrim Processing Corp., Brooklyn, N. Y. Printing and dyeing textiles. Serial No. 639,654, Aug. 4. Class 100.
Piru Citrus Association, Piru, Calif. Fresh citrus fruits. Serial No. 645,762, Aug. 4. Class 46.
Pitman-Dreitzer & Co. Inc., New York, N. Y. Multiple glass jar. Serial No. 630,536, Aug. 4. Class 33.
Pittsburgh Brewing Company, Pittsburgh, Pa. Beer. Serial Nos. 640,525–6, Aug. 4. Class 48.
Pleasure Togs, Inc., Atlanta, Ga. Women's and girls' blouses. Serial No. 642,680, Aug. 4. Class 39.
Polymer Industries Inc., Astoria, N. Y. Printing gum; sizing compound; and textile and paper finishing compounds. Serial No. 644,787, Aug. 4. Class 0.
Quick Charge, Inc., Oklahoma City, Okla. Cleaning compound. Serial No. 632,387, Aug. 4. Class 52.
Radiant Manufacturing Corporation, Chicago, Ill. Translucent to transparent fabrics for use in the manufacture of picture projection screens. Serial No. 632,101, Aug. 4. Class 20.
Radio-Television Manufacturers Association, Washington, D. C. Publications. Serial No. 610,187, Aug. 4. Class 38.
Raleigh Cycle Co. Limited, The, Nottingham, England. Bicycles, motor-bicycles, tricycles, etc. Serial No. 599,018, Aug. 4. Class 19.
Ralston Purina Company, St. Louis, Mo. Breakfast cereal foods; Scandinavian style bread, animal feeds, etc. Serial No. 552,702, Aug. 4. Class 46.
Randolph, John, Tomball, Tex. Booklets, maps, and printed post cards. Serial No. 629,216, Aug. 4. Class 38.
Raschig, Ralph A., Town of Brookfield, Wis. Pyrophoric material. Serial No. 638,269, Aug. 4. Class 1.
Rayco Mfg. Co., Paterson, N. J. Automobile seat covers. Serial No. 644,516, Aug. 4. Class 19.
Reflectone Corporation, The, Stamford, Conn. Target course generators, vector component integrators, analog computing devices, etc. Serial No. 637,086, Aug. 4. Class 26.
Renuzit Home Products Co., doing business as Royal Windsor Petroleum Company, Philadelphia, Pa. Lubricating oils. Serial No. 637,331, Aug. 4. Class 15.
Residex Corporation, Newark, N. J. Insecticides. Serial No. 633,074, Aug. 4. Class 6.
Rice Growers Assn.: *See*—
Rice Growers Association of California.
Rice Growers Association of California, also trading as Rice Growers Assn., Sacramento, Calif. Rice. Serial No. 639,393, Aug. 4. Class 46.
Rieck, E. W., Inc., Chicago, Ill. Chili sauce. Serial No. 642,306, Aug. 4. Class 46.
Riverdale Manufacturing Company, Inc., New York, N. Y. Fabrics. Serial No. 635,850, Aug. 4. Class 42.
Rolling Hills Orchards, Inc., Los Angeles, Calif., and Emmett, Idaho. Fresh deciduous fruits. Serial No. 645,433, Aug. 4. Class 46.
Rose-Derry Company, Newton, Mass. Infants' portable seats for use in automobiles. Serial No. 638,811, Aug. 4. Class 19.
Rosecrest Manufacturing Company, Boston, Mass. Rayon fabric. Serial No. 642,693, Aug. 4. Class 42.
Ross, Will, Inc., Milwaukee, Wis. Articles made of paper. Serial No. 630,797, Aug. 4. Class 37.
Round, David, & Son, Cleveland, Ohio. Trolleys, cranes, winches, etc. Serial No. 601,642, Aug. 4. Class 23.
Royal Windsor Petroleum Company: *See*—
Renuzit Home Products Co.
Sanders, H. M., Co., Boston, Mass. Cleaning, repairing and adjusting door checks, sharpening and repairing saws, lawn mowers and other cutting tools, etc. Serial No. 597,355, Aug. 4. Class 103.
Sanger, Norman H., Columbus, Ohio. Pin ball game. Serial No. 631,067, Aug. 4. Class 22.
Sartori & Berger: *See*—
Sartori, Charles.
Sartori, Charles, doing business as Sartori & Berger, Hamburg, Germany. Exchangeable rubber heels. Serial No. 641,745, Aug. 4. Class 39.
Saspin Chemicals Incorporated, Chicago, Ill. Liquid cleaner. Serial No. 633,330, Aug. 4. Class 52.
Scanlan, Elizabeth S., doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo. Artificial fish lures. Serial No. 634,995, Aug. 4. Class 22.
Schenley Industries, Inc., New York, N. Y. Whiskey. Serial No. 627,224, Aug. 4. Class 49.
Scherr, George, Co., New York, N. Y. Calipers and micrometers. Serial No. 632,020, Aug. 4. Class 20.
Schulze Baking Company: *See*—
Interstate Bakeries Corporation.
Season-All Window Corp., New Rochelle, N. Y. Doors and windows. Serial No. 636,500, Aug. 4. Class 12.
Selchow & Righter Company, New York, N. Y. Board game. Serial No. 635,062, Aug. 4. Class 22.
Sembodja Corp.: *See*—
Sembodja Corporation of New York.
Sembodja Corporation of New York, also doing business under the name and style of Sembodja Corp., New York, N. Y. Fancy shred coconut. Serial No. 636,742, Aug. 4. Class 46.
Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. Serial No. 633,881, Aug. 4. Class 32.
Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. Serial No. 634,273, Aug. 4. Class 32.
Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. Serial Nos. 634,275–6, Aug. 4. Class 32.
Shell Oil Company, New York, N. Y. Gasoline and lubricating oils. Serial No. 638,319, Aug. 4. Class 15.
Siegel Fabrics, Inc., Commack, N. Y. Piece goods. Serial No. 642,172, Aug. 4. Class 42.
Simon, M. & D., Company Incorporated, Cleveland, Ohio. Men's and boys' dress shirts and sport shirts. Serial No. 578,034, Aug. 4. Class 39.
Singer Manufacturing Company, The, Elizabeth, N. J. Locks and keys. Serial No. 628,570, Aug. 4. Class 25.
Sintos Company, The: *See*—
Coutinho, Henri.
Siris, A. J., Products Corp., New York, N. Y. Plastic tablecloths. Serial No. 640,698, Aug. 4. Class 42.
Smith-Johannsen, Robert, doing business as Smith-Johannsen Wax Co., Niskayuna, N. Y. Wax for skis. Serial No. 642,657, Aug. 4. Class 16.
Smith-Johannsen Wax Co.: *See*—
Smith-Johannsen, Robert.
Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filling and cementing material for dental use. Serial No. 638,880, Aug. 4. Class 44
Smith, Robt. R. and R. W., Ltd., also doing business as Rowland Smith & Son, London, England. Canned ham. Serial No. 643,379, Aug. 4. Class 46.
Smith, Rowland, & Son: *See*—
Smith, Robt. R. and R. W., Ltd.
Southern Oxygen Company, Bladensburg, Md. Oxygen, hydrogen, acetylene, etc. Serial No. 638,924, Aug. 4. Class 6.
Spector, Sheldon M., doing business under the name and style of Sun Laboratories, Miami, Fla. Cosmetics. Serial Nos. 642,313–14, Aug. 4. Class 51.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Hypnotic and anesthetic preparations. Serial No. 627,848, Aug. 4. Class 18.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Sedative and hypnotic preparation. Serial No. 632,181, Aug. 4. Class 18.
Stahmer, Bernhardt, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Potato chips. Serial No. 567,886, Aug. 4. Class 46.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Services rendered at automotive service stations and garages. Serial No. 633,089, Aug. 4. Class 103.
Sta-Tuk Industries: *See*—
Peery, Fernande.
Staunt, Martin, doing business as Midwest Dental Manufacturing Co., Chicago, Ill. Dental handpieces. Serial No. 626,175, Aug. 4. Class 44.
Stein, S., & Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 642,575, Aug. 4. Class 42.
Steiner Sales Company, division of American Linen Supply Co.: *See*—
American Linen Supply Co.
Stelzer, Otto E., German Township, St. Joseph County, Ind. Bath enclosures. Serial No. 628,969, Aug. 4. Class 12.
Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa. Non-woven fabric in the piece. Serial Nos. 640,084–6, Aug. 4. Class 42.
Sterling Drug Inc., New York, N. Y. Textile dyes. Serial No. 645,081, Aug. 4. Class 6.
Stern Brothers, New York, N. Y. Bill folds, wallets, pocketbooks, etc. Serial No. 639,493, Aug. 4. Class 3.
Stern Brothers, New York, N. Y. Bill folds, wallets, pocketbooks, etc. Serial No. 639,510, Aug. 4. Class 3.
Stevens, Don, Classics, Inc., New York, N. Y. Men's top coats, suits, sport coats, and slacks. Serial No. 640,037, Aug. 4. Class 39.
Storer Broadcasting Company, Birmingham, Mich. Radio and television broadcasting services. Serial No. 635,000, Aug. 4. Class 104.
Süddeutsche Zellwolle A. G., Kelheim-Ost, Germany. Rayon staple fiber. Serial No. 621,733, Aug. 4. Class 1.
Sun Laboratories: *See*—
Spector, Sheldon M.
Sun Garden Packing Company, San Jose, Calif. Canned vegetables. Serial No. 618,870, Aug. 4. Class 46.



Sunway Fruit Products, Chicago, Ill. Non-alcoholic, maltless, flavored concentrate. Serial No. 631,823, Aug. 4. Class 45.
Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Men's pants and outer shirts. Serial No. 639,294, Aug. 4. Class 39.
Swiss Pine Importing Co., Inc., New York, N. Y. Deodorant, shaving lotion, and after shave slick. Serial No. 642,578, Aug. 4. Class 51.
Telecomputing Corporation, Burbank, Calif. Electronically operated plotting apparatus for transferring data from IBM cards, etc. Serial No. 594,870, Aug. 4. Class 26.
Terkelson, James L., doing business as Kismet, San Francisco, Calif. Men's, ladies', and children's hosiery. Serial No. 645,679, Aug. 4. Class 39.
Terwilliger, Howard J., doing business as H. John Terwilliger Productions, Kingston, N. Y. Veterinary medicinal preparation. Serial No. 631,900, Aug. 4. Class 18.
Terwilliger, John H., Productions: *See*—
Terwilliger, Howard J.
Texas Harvest Hat Company, Laredo, Tex. Men's, ladies', and children's hats. Serial No. 622,182, Aug. 4. Class 39.
Thompson, Elmer O., Jr., doing business as Thompson's Fishing Tackle Co., Knoxville, Tenn. Artificial lures. Serial No. 645,442, Aug. 4. Class 22.
Thompson's Fishing Tackle Co.: *See*—
Thompson, Elmer O., Jr.
Timely Clothes, Inc., Rochester, N. Y. Men's and young men's suits, topcoats, overcoats, etc. Serial No. 583,455, Aug. 4. Class 39.
Todd Company, Inc., The Rochester, N. Y. Check printing machines. Serial No. 642,181, Aug. 4. Class 23.
Trygve Olsen & Co. Aktieselskab, assignee: *See*—
Aktieselskab Quality Canning Co. Limited.
Union Bag & Paper Corporation, New York, N. Y. Sulphate or sulphite paper and board. Serial No. 624,576, Aug. 4. Class 37.
United Biscuit Company of America, Chicago, Ill. Cookies and crackers. Serial No. 633,185, Aug. 4. Class 46.
United Collieries, Inc., Cincinnati, Ohio. Coal. Serial No. 623,263, Aug. 4. Class 1.
United Elastic Corporation, Easthampton, Mass. Woven elastic webbing. Serial No. 643,034, Aug. 4. Class 42.
U. S. Handbag Corporation, New York, N. Y. Ladies' handbags. Serial No. 640,980, Aug. 4. Class 3.
Upressit Metal Cap Corporation, Wilmington, Del. Closures for tin and glass containers. Serial Nos. 623,822–3, Aug. 4. Class 50.
Valley Welding & Boiler Company, assignor to Calcinator Corporation, Bay City, Mich. Refuse incinerators. Serial No. 638,112, Aug. 4. Class 34.
Van Brode Milling Co., Inc., Clinton, Mass. Household deodorants. Serial No. 643,574, Aug. 4. Class 6.
Varian Associates, Palo Alto, Calif. Thermionic tubes and tube circuits; and traveling wave tubes and tube circuits. Serial No. 635,205, Aug. 4. Class 21.
Vegetable Oil Products Company, Inc., Wilmington, Calif. Coconut oil popcorn seasoning. Serial No. 641,358, Aug. 4. Class 46.
Ventre, John, Jr., doing business under the name and style of Ventre Packing Co., Syracuse, N. Y. Bottled salad dressing. Serial No. 641,996, Aug. 4. Class 46.
Ventre Packing Co.: *See*—
Ventre, John, Jr.
Verdurin Company, Detroit and Midland, Mich. Tooth paste, tooth powder, and mouth wash. Serial No. 627,475, Aug. 4. Class 51.
Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. Serial No. 644,930, Aug. 4. Class 35.
Victory Optical Manufacturing Co., Newark, N. J. Spectacle frames. Serial No. 624,114, Aug. 4. Class 26.
Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J. Ingredient for rodenticides. Serial No. 626,353, Aug. 4. Class 6.
Vox Productions Inc., New York, N. Y. Grooved phonograph records. Serial No. 630,445, Aug. 4. Class 36.
WPL 7097: *See*—
Day's Tailor-D Clothing, Inc.
Waldron, John, Corporation, Highland Park, N. J. Printing machines, paper and textile converting machinery, paper breakers, etc. Serial No. 641,225, Aug. 4. Class 23.
Wales-Strippit Corporation, North Tonawanda, N. Y. Sheet metal punching, notching, and nibbling machinery, and for drive clutches. Serial No. 627,154, Aug. 4. Class 23.
Wander Company, The, Chicago, Ill. Coronary vasodilator. Serial No. 625,777, Aug. 4. Class 18.
Wander Company, The, Chicago, Ill. Estrogen preparation. Serial No. 633,808, Aug. 4. Class 18.
Wayne Metal Moulding Co., Inc., East Detroit, Mich. Metal mouldings. Serial No. 608,843, Aug. 4. Class 12.
Weber Baking Co.: *See*—
Interstate Bakeries Corporation.
Weiss, Frances L., doing business under the professional name of Fran Lee, Rye, N. Y. Information service rendered to women. Serial No. 642,788, Aug. 4. Class 107.
Wernet Dental Mfg. Co., Inc., doing business as Hudson Products, Jersey City, N. J. Magnesium trisilicate. Serial No. 636,320, Aug. 4. Class 18.
Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.
Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automotive vehicles and structural parts thereof. Serial No. 487,343, Aug. 4. Class 19.
Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. Serial No. 629,875, Aug. 4. Class 19.
Wilson Rubber Company, The, Canton, Ohio. Rubber and plastic industrial and household gloves. Serial No. 617,567, Aug. 4. Class 39.
Workshop Associates, Incorporated, The, Needham Heights, Mass., now by change of name The G. G. G. Corporation, assignor to The Gabriel Company, Cleveland Ohio. Antennas, coaxial and wave-guide transmission lines, and impedance adapters, etc. Serial No. 497,246, Aug. 4. Class 21.
Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y. Dibenzylethylenediamine dipenicillin. Serial No. 637,971, Aug. 4. Class 18.
Zylite Products Co. Inc., New York, N. Y. Eyeglass frames. Serial No. 632,191, Aug. 4. Class 26.

# LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Hypnotic sedative anesthetic compound. 578,279, Aug. 4; Serial No. 633,189, published May 12, 1953. Class 18.
Able Industries Corporation, New York, N. Y. Automobile polish. 578,164, Aug 4; Serial No. 601,401, published May 12, 1953. Class 4.
Aeroviss Brasil, Rio de Janeiro, Brazil, and Miami, Fla. Airplane passenger and freight transportation. 578,380, Aug. 4; Serial No. 619,054. Class 105.
Air Seal Corporation, Flint, Mich. Building insulation materials. 578,144, Aug. 4; Serial No. 560,081, published Oct. 14, 1952. Class 12.
Albertson, S., Company, Inc., Boston, Mass. Oranges. 307,551, renewed Oct. 31, 1953. O. G. Aug. 4. Class 46.
Alemite Corporation, to Stewart-Warner Corporation, Chicago, Ill. Lubricating systems. 303,855, renewed June 23, 1953. O. G. Aug. 4. Class 23.
Alliance Clay Product Co., The, Alliance, Ohio. Bricks. 578,321, Aug. 4; Serial No. 637,292, published Apr. 21, 1953. Class 12.
Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electromagnetic vibrating feeders and electrical power units. 578,182, Aug. 4; Serial No. 614,804, published May 12, 1953. Class 21.
American Colloid Company, Chicago, Ill. Species of bentonite clay. 578,227, Aug. 4; Serial No. 626,135, published Apr. 28, 1953. Class 1.
American Cyanamid Company, New York, N. Y. Textile fabric. 578,202, Aug. 4; Serial No. 622,245, published May 12, 1953. Class 42.
American Cyanamid Company, New York, N. Y. Feed supplement. 578,270, Aug. 4; Serial No. 632,340, published May 12, 1953. Class 18.
American Cystoscope Makers, Inc., New York, N. Y. Electrical apparatus. 578,333, Aug. 4; Serial No. 637,982, published May 12, 1953. Class 21.
American Home Foods, Inc.: *See*—
Burnett, Joseph, Co.
American Thermal Industries, Inc., Detroit, Mich. Hand operated hydraulically powered lift. 578,294, Aug. 4; Serial No. 634,831, published Apr. 28, 1953. Class 23.
Anheuser-Busch, Inc., St. Louis, Mo. Malt beverage. 306,930, renewed Oct. 3, 1953. O. G. Aug. 4. Class 46.
Appleton-Atlas Car Mover Corp.: *See*—
McLeish, Wm.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Perfumes and perfumery. 302,456, Apr. 18, 1933. Republished Aug. 4. Class 51.
Arden, Elizabeth, Inc., by Elizabeth Arden Sales Corporation, New York, N. Y. Perfumes and perfumery, cleansing cream, face and hand lotion, etc. 302,900, May 2, 1933. Republished Aug. 4. Class 51.
Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.
Lewis, Florence N.
Armtex, Incorporated, Pilot Mountain, N. C. Knitted fabric. 578,345 Aug. 4; Serial No. 638,629, published May 12, 1953. Class 42.

Aroma Coffee Company, Chicago, Ill. Coffee. 578,357, Aug. 4; Serial No. 557,102. Class 46.

Associated Brands, Inc., Brooklyn, N. Y. Hair tonic, hair dress with oil, bay rum compound, etc. 578,223, Aug. 4; Serial No. 625,449, published May 12, 1953. Class 51.

Athea Laboratories, Incorporated, Milwaukee, Wis. Hand lotion. 578,281, Aug. 4; Serial No. 633,442, published May 12, 1953. Class 51.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Thermosetting resin and powder used as ingredients for making corrosion resistant cement. 578,173, Aug. 4; Serial No. 611,255, published Apr. 7, 1953. Class 12.

Attorney General of the United States, vested in the: *See*—
Deutsche Gold- & Silber-Scheideanstalt.

Baker, Blanche A., Wichita, Kans. Cleansing cream, cold cream and tissue builder cream, etc. 303,092, renewed May 9, 1953. O. G. Aug. 4. Class 51.

Bamberger-Reinthal Company, The, Cleveland, Ohio. Head gear. 578,152, Aug. 4; Serial No. 591,662, published Apr. 28, 1953. Class 39.

Bard's Products, Inc., Evanston, Ill. Adhesive. 578,303, Aug. 4; Serial No. 635,344, published May 12, 1953. Class 5.

Beacon Manufacturing Company, New Bedford, Mass., to Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 307,334, renewed Oct. 24, 1953. O. G. Aug. 4. Class 42.

Bearfoot Sole Company, Inc., The, Boston, Mass. Soles and heels. 578,186, Aug. 4; Serial No. 615,476, published Feb. 26, 1952. Class 39.

Beck, A. S., Shoe Corporation, New York, N. Y. Women's and men's shoes. 578,306, Aug. 4; Serial No. 635,458, published Apr. 28, 1953. Class 39.

Bedford Shirt Corp., New York, N. Y. Men's and boys' dress shirts and sport shirts. 578,265, Aug. 4; Serial No. 631,647, published May 12, 1953. Class 39.

Bell, Wm. M., Company, to Wm. M. Bell Company, Chicago, Ill. Ice cream confection. 301,250, renewed Feb. 21, 1953. O. G. Aug. 4. Class 46.

Bernhardt, Ella H., New York, N. Y. Prosthetic devices. 578,154, Aug. 4; Serial No. 592,187, published May 12, 1953. Class 44.

Berwyn Chemical Company, Incorporated, Berwyn, Pa. Compounds for exterminating lice and bugs. 578,146, Aug. 4; Serial No. 565,166, published May 5, 1953. Class 6.

Beryllium Corporation, The, Reading, Pa. Welding accessories. 578,277, Aug. 4; Serial No. 632,915, published May 5, 1953. Class 21.

Binney & Smith Company, New York, N. Y. Tempera colors. 307,865, renewed Nov. 7, 1953. O. G. Aug. 4. Class 18.

Binney & Smith Company, New York, N. Y. Wax crayons. 307,867, renewed Nov. 7, 1953. O. G. Aug. 4. Class 37.

Biwall Panel Structures, Inc., Tigard, Oreg. Prefabricated structural panels and reinforcing strip members. 578,181, Aug. 4; Serial No. 614,685, published Apr. 7, 1953. Class 12.

Blankette Corporation, New York, N. Y. Children's slippers. 578,212, Aug. 4; Serial No. 623,871, published Apr. 28, 1953. Class 39.

Boehringer, C. H., Sohn, Ingelheim am Rhein, Germany. Eye-drops. 578,176, Aug. 4; Serial No. 612,103, published May 12, 1953. Class 18.

Borden Company, The, New York, N. Y. Canned, unbaked biscuits. 578,313, Aug. 4; Serial No. 636,510, published Apr. 7, 1953. Class 46.

Boston Quilting Corp., Franklin, Mass. Quilted innerlinings. 578,165, Aug. 4; Serial No. 601,883, published May 5, 1953. Class 42.

Boston Woven Hose and Rubber Company, Cambridge, Mass. Plastic garden hose. 578,248, Aug. 4; Serial No. 629,140, published May 12, 1953. Class 35.

Bowater Paper Company, Inc., New York, N. Y. Sulphite woodpulp, groundwood woodpulp and mutilated sideruns. 578,235, Aug. 4; Serial No. 627,667, published Apr. 28, 1953. Class 1.

Bowser, Inc., Fort Wayne, Ind. Fire fighting hose and nozzle racks, both with and without hose and nozzles. 578,356, Aug. 4; Serial No. 536,227. Class 13.

Boyd, John P., doing business under the name and style of The Hook-Easer Company, Forest Hills, N. Y. Fish hook removers. 578,366, Aug. 4; Serial No. 617,861. Class 22.

Brandwein & Company: *See*—
Brandwein, William.

Brandwein, William, doing business as Brandwein & Company, Chicago, Ill. Plastic-coated cotton and linen fabrics. 578,346, Aug. 4; Serial No. 638,633, published May 12, 1953. Class 42.

Breeze Corporation, Inc., Newark, N. J. Conduits. 305,352, renewed Aug. 15, 1953. O. G. Aug. 4. Class 21.

Briardale Co., San Francisco, Calif. Canned food products. 578,142, Aug. 4; Serial No. 546,353, published Jan. 27, 1953. Class 46.

Britanny Hat Co., Inc., The, New York, N. Y. Men's and boys' hats. 578,293, Aug. 4; Serial No. 634,774, published May 12, 1953. Class 39.

Brooklyn Paint & Varnish Co., Inc.: *See*—
Brooklyn Varnish Manufacturing Company, Inc.

Brooklyn Varnish Manufacturing Company, Inc., Brooklyn, N. Y., now by change of name Brooklyn Paint & Varnish Co., Inc. Paints, varnishes, paint enamels, etc. 578,156, Aug. 4; Serial No. 598,151, published Apr. 28, 1953. Class 16.

Brooks, E. J., Company, Newark, N. J. Coin bag seals. 578,368, Aug. 4; Serial No. 623,644. Class 25.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alleys and parts thereof; pins, balls, etc. 578,157, Aug. 4; Serial No. 598,882, published May 12, 1953. Class 22.

Bryant, Curtis L., Detroit, Mich. Tooth powder. 578,253, Aug. 4; Serial No. 630,114, published May 12, 1953. Class 51.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Chemical cotton pulp (alpha cellulose). 578,151, Aug. 4; Serial No. 590,803, published May 12, 1953. Class 1.

Burnett, Joseph, Co., Boston, Mass., to American Home Foods, Inc., New York, N. Y. Vanilla food flavoring extract. 304,729, renewed July 18, 1953. O. G. Aug. 4. Class 46.

Burt, Ralph E., doing business as Ralph E. Burt Associates, Springfield, Mass. Consulting services to manufacturers. 578,353, Aug. 4; Serial No. 624,813, published May 5, 1953. Class 100.

Burt, Ralph E., Associates: *See*—
Burt, Ralph E.

C. Schous Fabriker A/S, Copenhagen, Denmark. Electrical and magnetized phonograph records, recording wire and recording tape. 578,325, Aug. 4; Serial No. 637,525, published May 5, 1953. Class 21.

Cadnic Corporation, Denver, Colo. Storage batteries. 578,320, Aug. 4; Serial No. 637,237, published May 5, 1953. Class 21.

Cambridge Rubber Company, The, Cambridge, Mass., and Taneytown, Md. Boots. 578,240, Aug. 4; Serial No. 627,927, published Apr. 28, 1953. Class 39.

Cardinal Products: *See*—
Robinson, Ted.

Carson, Virginia S., Kansas City, Mo. Deodorizer, germicide, and disinfectant. 578,309, Aug. 4; Serial No. 635,901, published May 12, 1953. Class 6.

Carter, J. F., Company, Portland, Maine, and Beverly, Mass., to A. J. Tower Company, Boston, Mass. Oiled clothing. 94,057, re-renewed Nov. 4, 1953. O. G. Aug. 4. Class 39.

Castaldo, Neil, Cranford, N. J. Germicidal and fungicidal composition. 578,232, Aug. 4; Serial No. 627,112, published May 12, 1953. Class 18.

Chaffee Manufacturing Company, Millersport, Ohio. Clothing and polishing wax. 578,373, Aug. 4; Serial No. 632,075. Class 4.

Chemisches Laboratorium am Heiligengeistfeld G. m. b. H., Hamburg, Germany. Medicament. 578,244-5, Aug. 4; Serial Nos. 628,888-9, published May 12, 1953. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Medicinal preparation. 578,315, Aug. 4; Serial No. 636,686, published May 12, 1953. Class 18.

Chicopee Mills, Inc., New York, N. Y. Diapers and diaper liners. 578,214, Aug. 4; Serial No. 624,123, published Apr. 28, 1953. Class 39.

Clark, C. & J., Limited, Street, England. Boots. 578,168, Aug. 4; Serial No. 604,687, published Apr. 28, 1953. Class 39.

Cleveland Hobbing Machine Company, The, Euclid, Ohio. Lathes and turning machines. 578,216, Aug. 4; Serial No. 624,226, published Apr. 28, 1953. Class 23.

Cole Chemical Company, St. Louis, Mo. Cold cream, hand lotion, eye drops, etc. 578,295, Aug. 4; Serial No. 634,935, published Apr. 7, 1953. Class 51.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. Palmolive-Peet Company, Jersey City, N. J. Soap. 307,510, renewed Oct. 24, 1953. O. G. Aug. 4. Class 52.

Colonial Togs, New York, N. Y. Infants' and children's snow suits, jackets, pants, and leggings. 578,255, Aug. 4; Serial No. 630,759, published Apr. 28, 1953. Class 39.

Colorado Fuel and Iron Corporation, The, Denver, Colo. Wire rope. 578,348, Aug. 4; Serial No. 638,755, published May 5, 1953. Class 7.

Compania Inter-Americana, S. A., assignee: *See*—
Stewart, Samuel F.

Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes. 578,230, Aug. 4; Serial No. 627,865, published May 12, 1953. Class 19.

Cooke, E. K., & Co., Inc., Washington, D. C. Medicinal preparation. 578,185, Aug. 4; Serial No. 615,210, published May 12, 1953. Class 18.

Co-operative Dairies, Inc., Columbus, Miss. Fluid whipping cream, fluid coffee cream, fluid buttermilk, etc. 578,171, Aug. 4; Serial No. 609,785, published Apr. 1, 1952. Class 46.

Corning Glass Works, Corning, N. Y. 578,179, Aug. 4. Articles of glass—namely, glass ash trays and cigarette boxes and cigarette containers, Serial No. 613,764, published Oct. 28, 1952, Class 8; hook-ends, Serial No. 633,258, published Oct. 28, 1952, Class 32; breakfast, luncheon and dinnerware; open and covered serving dishes and trays, etc., Serial No. 613,765, published Aug. 26, 1952, Class 33; candlesticks and candelabra, Serial No. 613,766, published Sept. 16, 1952, Class 34; glass inkwells, and paperweights, Serial No. 613,767 published Aug. 5, 1952, Class 37; ornamental glass figurines and miniatures, Serial No. 613,768, published Aug. 26, 1952, Class 50. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)



Corning Glass Works, Corning, N. Y. 578,183, Aug. 4. Articles of glass—namely, glass ash trays and cigarette boxes and cigarette containers, Serial No. 614,868, published Oct. 28, 1952, Class 8; book-ends, Serial No. 633,257, published Oct. 28, 1952, Class 32; breakfast, luncheon and dinnerware; open and covered serving dishes and trays, etc., Serial No. 614,869, published Aug. 26, 1952, Class 33; candlesticks and candelabra, Serial No. 614,870, published Sept. 16, 1952, Class 34; glass inkwells, and paperweights, Serial No. 614,871, published Aug. 5, 1952, Class 37; ornamental glass figurines and miniatures, Serial No. 614,872, published Aug. 26, 1952, Class 50. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)

Crown Cork & Seal Company, Inc.: *See*—
New Process Cork Company.

Crystal Tissue Company, The, Middletown, Ohio. White, colored, silver, kraft-non-tarnishing, ribbed wrapping tissues, printed and lithographed paper gift wraps, etc. 578,102, Aug. 4; Serial No. 617,013, published Mar. 24, 1953. Class 37.

Dalton, Philip P., Tampa, Fla. Artificial fishing bait. 578,130, Aug. 4; Serial No. 590,654, published May 12, 1953. Class 22.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Spices, dietetical patent foods, malt food starches, and sauces and feeding preparations, etc. 301,136, renewed Feb. 21, 1953. O. G. Aug. 4. Class 46.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Fish hooks, lee and roller skates, tennis and fish nets, etc. 301,137, renewed Feb. 21, 1953. O. G. Aug. 4. Class 22.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Apparatus for extinguishing fire. 301,138, renewed Feb. 21, 1953. O. G. Aug. 4. Class 23.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Laundry driers. 301,139, renewed Feb. 21, 1953. O. G. Aug. 4. Class 24.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Drawing instruments, laboratory fittings. 301,140, renewed Feb. 21, 1953. O. G. Aug. 4. Class 26.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Jewelry. 301,141, renewed Feb. 21, 1953. O. G. Aug. 4. Class 28.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Watches, clocks, and parts thereof. 301,142, renewed Feb. 21, 1953. O. G. Aug. 4. Class 27.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Tooth brushes, hair brushes, scrubbing brushes, etc. 301,143, renewed Feb. 21, 1953. O. G. Aug. 4. Class 29.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Porcelain or real china. 301,144, renewed Feb. 21, 1953. O. G. Aug. 4. Class 30.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. House, office, store, shop, porch, and lawn furniture. 301,145, renewed Feb. 21, 1953. O. G. Aug. 4. Class 32.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Glass, table and flat glassware, glass in bulk, etc. 301,146, renewed Feb. 21, 1953. O. G. Aug. 4. Class 33.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Gas and oil lighting apparatus, gas, oil, water, etc. heating and cooking apparatus, etc. 301,147, renewed Feb. 21, 1953. O. G. Aug. 4. Class 34.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Cotton and leather driving belts, leather and rubber hose and packing materials. 301,148, renewed Feb. 21, 1953. O. G. Aug. 4. Class 35.

Dome Chemicals, Inc., New York, N. Y. Medicinal preparations. 578,300, Aug. 4; Serial No. 635,174, published May 5, 1953. Class 18.

Dominion Foundry Company, Winnipeg, Manitoba, Canada. Coal burning furnaces. 578,370, Aug. 4; Serial No. 628,340. Class 34.

Donovan Enterprises, Saugatuck, Conn. Bibs. 578,201, Aug. 4; Serial No. 622,150, published Apr. 28, 1953. Class 39.

Dubin, David, Co. Inc., New York, N. Y., by change of name Dubin Veilings, Inc. Bridal hats and bridal veils. 578,167, Aug. 4; Serial No. 604,524, published May 12, 1953. Class 39.

Dubin Veilings, Inc.: *See*—
Dubin, David, Co. Inc.

E Z Paintr Corporation: *See*—
Nu-Enamel Corporation.

Earnshaw, Arthur R., doing business as Quik Manufacturing Company, to Silver Suds Company, Philadelphia, Pa. Scouring compound. 306,560, renewed Sept. 26, 1953. O. G. Aug. 4. Class 52.

Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo. Electrical, air-deodorizing apparatus. 578,296, Aug. 4; Serial No. 634,971, published May 5, 1953. Class 21.

Edelstein, Jerome, Inc., New York, N. Y. Fur coats, fur capes, and fur jackets. 578,324, Aug. 4; Serial No. 637,483, published May 12, 1953. Class 39.

Elder Manufacturing Company, St. Louis, Mo. Piece goods. 578,341, Aug. 4; Serial No. 638,354, published May 12, 1953. Class 42.

Electric Controller & Manufacturing Company, The, Cleveland, Ohio. Electric resistors. 578,143, Aug. 4; Serial No. 550,679, published May 12, 1953. Class 21.

Elizabeth Hat Company, The: *See*—
Neger, Sam.

Essel Import-Export Co., Inc., Flushing, N. Y. Sewing machines, sewing machine parts, sewing machine needles, etc. 578,252, Aug. 4; Serial No. 629,997, published Apr. 28, 1953. Class 23.

Estellite Company, Inc., Hoosick Falls, N. Y. Electronic deodorizers. 578,304, Aug. 4; Serial No. 635,354, published May 5, 1953. Class 21.

Eve Beauty Products Co., Minneapolis, Minn. Permanent wave lotion. 578,206, Aug. 4; Serial No. 622,709, published Apr. 7, 1953. Class 51.

Farac Oil and Chemical Company, Chicago, Ill. Refined tall oil. 578,305, Aug. 4; Serial No. 635,413, published Apr. 28, 1953. Class 1.

Farmcraft Feeds, Inc., Des Moines, Iowa. Vitamin mixture. 578,241, Aug. 4; Serial No. 627,935, published May 12, 1953. Class 18.

First Texas Chemical Manufacturing Co., Dallas, Tex. Cough strup. 578,155, Aug. 4; Serial No. 595,131, published May 12, 1953. Class 18.

Fitzsimmons, John A., doing business as Fitzsimmons Products, New York, N. Y. External veterinary liquid preparation. 578,191, Aug. 4; Serial No. 616,627, published May 12, 1953. Class 18.

Fitzsimmons Products: *See*—
Fitzsimmons, John A.

Fluorescent Fabricators: *See*—
Easy-Eye Lighting, Inc.

Ford-Ideal Laundry Co.: *See*—
Wohltman, Max P.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 303,693, renewed June 6, 1953. O. G. Aug. 4. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 303,781, renewed June 6, 1953. O. G. Aug. 4. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 303,784, renewed June 6, 1953. O. G. Aug. 4. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 303,786, renewed June 6, 1953. O. G. Aug. 4. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 303,790-3, renewed June 6, 1953. O. G. Aug. 4. Class 42.

Fort Industry Company, The, Birmingham, Mich., now by change of name Storer Broadcasting Company. Advertising the goods and services of others. 578,354, Aug. 4; Serial No. 625,471, published May 5, 1953. Class 101.

Foster Canning Co., Inc., The, doing business as Glendale Canning Co., Farmingdale, N. J. Canned food, 331,427, Jan. 7, 1936. Republished Aug. 4. Class 46.

Foster Canning Co., Inc., doing business as Glendale Canning Co., Farmingdale, N. J. Canned food. 330,934, Oct. 27, 1936. Republished Aug. 4. Class 46.

Friedman & Sons, New York, N. Y. Umbrellas. 578,289, Aug. 4; Serial No. 634,323, published Mar. 17, 1953. Class 41.

Frommelt, Cyril P., doing business as Frommelt Industries, Dubuque, Iowa. Laminated cloth and foil material. 578,187, Aug. 4; Serial No. 615,891, published May 5, 1953. Class 42.

Frommelt Industries: *See*—
Frommelt, Cyril P.

General Electric Company, Schenectady, N. Y. Insulated electric cord. 578,339, Aug. 4; Serial No. 638,299, published May 12, 1953. Class 21.

General Extrusions, Incorporated, Youngstown, Ohio. Extruded metal shapes comprising metal trims, namely moldings for walls and floors, etc. 578,217, Aug. 4; Serial No. 624,231, published Apr. 7, 1953. Class 12.

General Metals Corporation, San Francisco, Calif. Fuel feed control apparatus. 578,166, Aug. 4; Serial No. 602,446, published Apr. 28, 1953. Class 23.

Gerst, Arthur J., trading and doing business as Sausage Industry Suppliers Co., San Jose, Calif. Seasonings for meat products. 578,273, Aug. 4; Serial No. 632,724, published May 12, 1953. Class 46.

Gibbs & Company, Incorporated, Baltimore, Md. Canned vegetables, canned fruits, canned hominy, etc. 305,918, Aug. 29, 1933. Republished Aug. 4. Class 46.

Gillette Company, The, Boston, Mass. Women's and girls' raincoats. 578,260, Aug. 4; Serial No. 632,028, published Apr. 28, 1953. Class 39.

Gilt Edge Candy Co., Akron, by Spangler Candy Company, Bryan, Ohio. Lollipops. 203,637. Sept. 22, 1925. Republished Aug. 4. Class 46.

Givaudan-Delawanna, Inc., New York, N. Y. Liquid odoriferous material suitable for use in perfumes and cosmetics. 578,149, Aug. 4; Serial No. 581,418, published Apr. 7, 1953. Class 51.

Glendale Canning Co.: *See*—
Foster Canning Co., Inc.

Foster Canning Co., Inc., The.

Globe Hoist Company, Des Moines, Iowa. Stationary hydraulic automobile hoist. 578,371, Aug. 4; Serial No. 629,485. Class 23.

Golden Bear Oil Co., Los Angeles, Calif. Chemical preparation. 430,362, June 10, 1947. Republished Aug. 4. Class 6.

Goodall-Sanford, Inc., Sanford, Maine. Piece goods. 578,194, Aug. 4; Serial No. 617,990, published May 12, 1953. Class 42.

Gottesman & Company, Incorporated, New York, N. Y. Wood pulp. 306,981, renewed Oct. 10, 1953. O. G. Aug. 4. Class 1.

Greenberg, Louis H., Company, New York, N. Y. Towels. 578,205, Aug. 4; Serial No. 622,651, published May 12, 1953. Class 42.

Greenwald, Moe, New York, N. Y. Caps. 578,283, Aug. 4; Serial No. 633,767, published May 12, 1953. Class 39.

Griffith Laboratories, Inc., The, Chicago, Ill. Salt composition. 578,326, Aug. 4; Serial No. 637,655, published Apr. 7, 1953. Class 46.

Griffith Laboratories, Inc., The, Chicago, Ill. Salt composition. 578,342, Aug. 4; Serial No. 638,416, published Mar. 17, 1953. Class 46.

Hager & Jones, Oakland, Calif. Hydraulically controlled valve responsive to the manifold pressure of an automotive engine, etc. 578,361, Aug. 4; Serial No. 597,074. Class 19.

Hand, Peter, Brewery Co.: *See*—
Hand, Peter, Company.

Hand, Peter, Brewery Company: *See*—
Hand, Peter, Company.

Hand, Peter, Company, doing business as Peter Hand Brewery Co., to Peter Hand Brewery Company, Chicago, Ill. Malt beverages. 306,427, renewed Sept. 19, 1953. O. G. Aug. 4. Class 48.

Hartmann, Ernest A., doing business under the name of The Motolax Company, Buffalo, Iowa. Graphite additive for improving lubricating oil. 578,254, Aug. 4; Serial No. 630,300, published May 5, 1953. Class 15.

Hartnell, Norman, Limited, London, England. Ladies' dresses, coats, suits, capes, etc. 578,145, Aug. 4; Serial No. 564,251, published May 12, 1953. Class 39.

Harvey, John, & Sons, Limited, Bristol, England. Sherry wine. 306,426, renewed Sept. 19, 1953. O. G. Aug. 4. Class 47.

Hastings Manufacturing Company, Hastings, Mich. Piston rings. 578,193, Aug. 4; Serial No. 617,497, published May 12, 1953. Class 35.

Hat Corporation of America, Norwalk, Conn. Headwear. 578,196, Aug. 4; Serial No. 620,039, published May 12, 1953. Class 39.

Heberlee Air-Lite, Inc., Seattle, Wash. Filled comforters and blankets. 578,308, Aug. 4; Serial No. 635,651, published May 12, 1953. Class 42.

Hecht Co., The, Washington, D. C. Household and store refrigerators. 310,844, Mar. 13, 1934. Republished Aug. 4. Class 31.

Heli-Coil Corporation, Danbury, Conn. Tools, and machines and parts thereof for use in screw connections. 578,263, Aug. 4; Serial No. 631,418, published Apr. 28, 1953. Class 23.

Hemmeter Cigar Company, Detroit, Mich., to National Cigar Corporation, Wilmington, Del., and Cincinnati, Ohio. Cigars. 91,484, re-renewed May 6, 1953. O. G. Aug. 4. Class 17.

Hettrick Manufacturing Company, The, Toledo, Ohio. Sweaters, basque shirts, shirts, etc. 578,160, Aug. 4; Serial No. 599,045, published May 5, 1953. Class 39.

Hillman Wreather Ring & Machine Co., East Paterson, N. J. Machine for making wreaths. 578,365, Aug. 4; Serial No. 617,440. Class 23.

Hillsboro Hosiery Mills, Inc., Hillsboro, N. H. Hosiery and underwear. 410,316, Nov. 21, 1944. Republished Aug. 4. Class 39.

Hilton, G. C., doing business as Leech Products Company, Hutchinson, Kans. Liquid or fluid adhesive cement or glue. 306,505, renewed Sept. 19, 1953. O. G. Aug. 4. Class 5.

Hi-Sky Products Co.: *See*—
Roth, Frank M.

Hobart Manufacturing Company, The: *See*—
Kitchenaid Manufacturing Company, The.

Hoffman Radio Corporation, Los Angeles, Calif. Television receiving sets. 578,175, Aug. 4; Serial No. 611,844, published Sept. 2, 1952. Class 21.

Hook-Easer Company, The: *See*—
Boyd, John P.

Hoover Company, The, North Canton, Ohio. Electric irons. 578,291, Aug. 4; Serial No. 634,468, published May 5, 1953. Class 21.

House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' coats, suits, jackets and skirts. 578,301, Aug. 4; Serial No. 635,182, published Apr. 28, 1953. Class 39.

House of Twain, Inc., Chicago, Ill. Insect repellent. 578,377, Aug. 4; Serial No. 643,324. Class 6.

Hughes, James B.: *See*—
Skoot Company, The.

Hy-Pro Tool Company, New Bedford, Mass. Hand tools. 578,236, Aug. 4; Serial No. 627,818, published Apr. 28, 1953. Class 23.

Infilco Incorporated, Chicago, Ill. Filters, filter distributors, etc. 410,350, Nov. 21, 1944. Corrected. O. G. Aug. 4. Class 31.

International Sport Motors, Ltd., Hoboken, N. J. Motorcycles. 578,161, Aug. 4; Serial No. 600,266, published May 12, 1953. Class 19.

International Standard Trading Corporation, New York, N. Y. Electromechanical intelligence analyzing apparatus. 578,213, Aug. 4; Serial No. 624,086, published May 5, 1953. Class 21.

J. P. Products Co.: *See*—
Petranek, John L.

JAK Visor Company, Laurelton, N. Y. Visors for automobiles. 578,351, Aug. 4; Serial No. 643,425, published May 12, 1953. Class 19.

Jantzen Knitting Mills Inc., Portland, Oreg. Swimming trunks, outer shorts, and swimming suits. 578,251, Aug. 4; Serial No. 629,897, published May 12, 1953. Class 39.

Jersey Specialty Company, Inc., Little Falls, N. J. Wire products. 578,267, Aug. 4; Serial No. 632,089, published May 12, 1953. Class 21.

Johns-Manville Corporation, New York, N. Y. Mineral wool thermal insulation. 578,204, Aug. 4; Serial No. 622,543, published Apr. 7, 1953. Class 12.

Jolly Kids Togs, Chicago, Ill. Infants' sleeping garments. 578,188, Aug. 4; Serial No. 616,174, published May 5, 1953. Class 39.

Jorgensen, George M., Chicago, Ill. Sandwiches. 578,362, Aug. 4; Serial No. 613,714. Class 46.

Kaylon Incorporated, New York, N. Y. Women's and girls' pajamas, pajama coats, beach coats, etc. 578,237, Aug. 4; Serial No. 627,823, published Apr. 28, 1953. Class 39.

Keasbey & Mattison Company, Ambler, Pa. Asbestos-cement product. 300,366, Jan. 17, 1933. Republished Aug. 4. Class 12.

Kimball, C. M., Co., Boston, Mass. Preparation for cleaning glass, porcelain, etc. 578,139, Aug. 4; Serial No. 536,403, published May 12, 1953. Class 52.

Kitchenaid Manufacturing Company, The, to The Hobart Manufacturing Company, Troy, Ohio. Electrically-driven, beating, treating, and mixing machines. 304,834, renewed July 18, 1953. O. G. Aug. 4. Class 21.

Kohler Co., Kohler, Wis. Paste used for pasting paper to enameled and the like surfaces. 301,822, Mar. 14, 1933. Republished Aug. 4. Class 5.

Kohler Co., Kohler, Wis. Heating boilers and radiators. 303,273, May 16, 1933. Republished Aug. 4. Class 34.

Leadway Stores Corporation, San Francisco, Calif. Canned fruits. 301,329, Feb. 28, 1933. Republished Aug. 4. Class 46.

Leech Products Company: *See*—
Hilton, G. C.

Lenthéric, Incorporated, New York, N. Y. Cosmetic lotion. 578,234, Aug. 4; Serial No. 627,516, published Apr. 14, 1953. Class 51.

Lewis, Florence N., by Elizabeth Arden Sales Corporation, New York, N. Y. Face and massage creams. 117,888, Aug. 7, 1917. Republished Aug. 4. Class 51.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 578,319, Aug. 4; Serial No. 637,056, published May 12, 1953. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 578,347, Aug. 4; Serial No. 638,729, published May 12, 1953. Class 18.

Lubin-Weeker, Co., Inc., New York, N. Y. Men's and women's pajamas. 578,195, Aug. 4; Serial No. 619,251, published May 5, 1953. Class 39.

Magnavox Company, The, to The Magnavox Company, Fort Wayne, Ind. Hand and motor driven mechanical fruit juice extractors. 303,946, renewed June 13, 1953. O. G. Aug. 4. Class 23.

Mandee Fabrics, Inc., New York, N. Y. Textile fabrics. 578,327, Aug. 4; Serial No. 637,660, published May 12, 1953. Class 42.

Manfield and Sons, Limited, Northampton, England. Boots and shoes. 578,292, Aug. 4; Serial No. 634,746, published Apr. 28, 1953. Class 39.

Manheim Manufacturing & Belting Company, Manheim, Pa. Power transmission belting. 578,246, Aug. 4; Serial No. 628,950, published May 12, 1953. Class 35.

Manning, Maxwell & Moore, Inc.: *See*—
Shaw-Box Crane & Hoist Company, Inc.

Manufactures de Senones (Vosges) Société à Responsabilité limitée, Paris, France. Textile fabrics. 578,229, Aug. 4; Serial No. 626,396, published May 5, 1953. Class 42.

Marsh Stencil Machine Company, Belleville, Ill. Fountain brushes. 578,359, Aug. 4; Serial No. 587,962. Class 29.

Mayer, William L., Detroit, Mich. Chemo-therapeutic pharmaceutical preparation. 578,197, Aug. 4; Serial No. 620,548, published May 12, 1953. Class 18.

McLeish, Wm., Appleton, to Appleton-Atlas Car Mover Corp., Milwaukee, Wis. Car-movers. 92,103, re-renewed June 17, 1953. O. G. Aug. 4. Class 23.



Meacham, Thomas D., Monahans, Tex. Packaged ice. 578,264, Aug. 4; Serial No. 631,358, published Apr. 28, 1953. Class 1.

Medical Iodine Laboratories, Inc., Avalon, Pittsburgh, Pa. Iodine for medicinal purposes. 578,349, Aug. 4; Serial No. 638,774, published May 5, 1953. Class 18.

Merck & Co., Inc.: *See*—
Sharp & Dohme, Incorporated.

Meyer & Lange, to R. C. Williams & Company, Inc., New York, N. Y. Fruit jelly, calf's-foot jelly, bar-le-duc jelly, etc. 93,739, re-renewed Oct. 14, 1953. O. G. Aug. 4. Class 46.

Meyer & Lange, to R. C. Williams & Company, Inc., New York, N. Y. Paprika, onions, mushrooms, peas, etc. 93,885, re-renewed Oct. 21, 1953. G. G. Aug. 4. Class 46.

Michigan Door Company, Grand Rapids, Mich. Wooden doors. 578,322, Aug. 4; Serial No. 637,385, published Apr. 21, 1953. Class 12.

Midwest Plywood Company, Detroit, Mich. Wood fibre board. 578,369, Aug. 4; Serial No. 625,211. Class 12.

Miller and Rhoads, Incorporated, Richmond, Va. Textile rugs, carpets, and carpeting. 578,210, Aug. 4; Serial No. 623,118, published May 12, 1953. Class 42.

Missouri Poultry Improvement Association, Columbia, Mo. Live turkey poults. 578,382, Aug. 4; Serial No. 630,280. Class 1.

Mitchell Manufacturing Company, Chicago, Ill. Removable oil filter units. 578,360, Aug. 4; Serial No. 596,177. Class 31.

Modern Carpet Sweeper Co., Inc., Brooklyn, N. Y. Carpet sweepers. 578,298, Aug. 4; Serial No. 635,047, published Apr. 28, 1953. Class 23.

Modern Woodmen of America, Rock Island, Ill. Underwriting of life insurance combined with polio insurance for its members. 578,352, Aug. 4; Serial No. 612,465, published May 5, 1953. Class 102.

Montenier, Jules, Inc., Chicago, Ill. Deodorant. 578,233, Aug. 4; Serial No. 627,144, published May 12, 1953. Class 51.

Moseley, Benjamin, Co. Inc., Needham, Mass. Sweaters. 578,284, Aug. 4; Serial No. 633,831, published Apr. 28, 1953. Class 39.

Motolax Company, The: *See*—
Hartmann, Ernest A.

Motorola, Inc., Chicago, Ill. Electrical chassis for radio receivers. 578,323, Aug. 4; Serial No. 637,388, published May 5, 1953. Class 21.

Mt. Hood Soap Company, Portland, Oreg. Powdered laundry soap. 578,307, Aug. 4; Serial No. 635,547, published May 12, 1953. Class 52.

Munising Paper Company, The, Chicago, Ill. Chemically treated paper. 578,268, Aug. 4; Serial No. 632,095, published Mar. 31, 1953. Class 37.

Myers, Malvina D., doing business under the style name of Sure Shot Laboratories, Mobile, Ala. Topical liquid preparation for treatment of dandruff. 578,169, Aug. 4; Serial No. 608,844, published May 5, 1953. Class 51.

Napper Company, Incorporated, Winnetka, Ill. Infants' play garment set. 578,211, Aug. 4; Serial No. 623,846, published May 5, 1953. Class 39.

Nash-Kelvinator Corporation, Detroit, Mich., and Kenosha, Wis. Motor vehicle heaters and air conditioners. 578,159, Aug. 4; Serial No. 599,895, published Apr. 24, 1951. Class 19.

National Cigar Corporation: *See*—
Hemmeter Cigar Company.

National Expert Bait Co., Minneapolis, Minn. Artificial fish lure. 578,311, Aug. 4; Serial No. 636,245, published May 12, 1953. Class 22.

National Shoes, Inc., New York, N. Y. Hosiery. 578,367, Aug. 4; Serial No. 619,679. Class 39.

National Tuberculosis Association, New York, N. Y. Pencils. 578,285, Aug. 4; Serial No. 633,853, published Mar. 10, 1953. Class 37.

Neger, Sam, doing business under the name of The Elizabeth Hat Company, New York, N. Y. Hats, bonnets, and scarfs. 578,280, Aug. 4; Serial No. 633,209, published May 12, 1953. Class 39.

Nelson, Edward E., Sunland, Calif. Live chinchillas and chinchilla pelts. 578,256, Aug. 4; Serial No. 630,852, published May 5, 1953. Class 1.

New Process Cork Company, New York, N. Y., by Crown Cork & Seal Company, Inc., Baltimore, Md. Cork disks and washers. 92,905, Aug. 5, 1913. Republished Aug. 4. Classes 35 and 50.

North American Commercial Corporation, New York, N. Y. Textile fabrics. 578,334, Aug. 4; Serial No. 638,093, published May 12, 1953. Class 42.

Nu-Enamel Corporation, Chicago, Ill., now by merger and change of name E Z Paintr Corporation. Automobile and metal paint enamels and varnishes, mixed paints, etc. 578,141, Aug. 4; Serial No. 543,317, published May 12, 1953. Class 16.

Nutrition Research Laboratories, Inc., Chicago, Ill. Pharmaceutical preparation. 578,318, Aug. 4; Serial No. 636,861, published May 12, 1953. Class 18.

Olympic Glove Company, Inc., The, New York, N. Y. Protective clothing. 578,215, Aug. 4; Serial No. 624,146, published May 5, 1953. Class 39.

Oomphies, Inc., New York, N. Y. Women's sport shoes. 564,951, Oct. 7, 1952. Corrected. O. G. Aug. 4. Class 39.

Pacific Fruit Exchange, San Francisco, Calif. Fresh grapes, fresh deciduous fruits, and fresh vegetables. 578,140, Aug. 4; Serial No. 538,311, published May 12, 1953. Class 46.

Panhandle Oil Corporation, assignee: *See*—
Panhandle Producing and Refining Company, The.

Panhandle Producing and Refining Company, The, assignor to Panhandle Oil Corporation, Wichita Falls, Tex., and elsewhere. Gasoline. 578,172, Aug. 4; Serial No. 610,484, published May 5, 1953. Class 15.

Paper Machinery and Research, Inc., Roselle, N. J. Printing rolls. 578,363, Aug. 4; Serial No. 614,459. Class 23.

Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and desk sets. 305,672, Aug. 22, 1933. Republished Aug. 4. Class 37.

Patten, Lee Seed Company, Jersey City, N. J. Lawn seed mixture. 578,247, Aug. 4; Serial No. 629,118, published Apr. 28, 1953. Class 1.

Pepsodent Limited, London, England. Toothpaste. 578,282, Aug. 4; Serial No. 633,627, published May 12, 1953. Class 51.

Petranek, John L., doing business as J. P. Products Co., Hammond, Ind. Foot powder and liquid for use as a fungicidal antiseptic. 578,158, Aug. 4; Serial No. 599,113, published May 12, 1953. Class 18.

Pfeiffer, S., Manufacturing Company, St. Louis, Mo. Medicaments. 578,335, Aug. 4; Serial No. 638,096, published May 5, 1953. Class 18.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. 578,332, Aug. 4; Serial No. 637,943, published May 5, 1953. Class 18.

Pioneer Sand and Gravel Company, Seattle, Wash. Ready-mixed concrete. 578,189, Aug. 4; Serial No. 616,467, published Apr. 7, 1953. Class 12.

Plastics Products Company, Inc., Dallas, Tex. Men's, women's, boys' and girls' raincoats. 578,242, Aug. 4; Serial No. 628,777, published May 5, 1953. Class 39.

Pollak, Henry, Inc., to Pollak Industrial Corp., New York, N. Y. Women's and children's felt hats. 301,178, renewed Feb. 21, 1953. O. G. Aug. 4. Class 39.

Pollak, Henry, Inc., to Pollak Industrial Corp., New York, N. Y. Women's hats. 301,200, renewed Feb. 21, 1953. O. G. Aug. 4. Class 39.

Pollak Industrial Corp.: *See*—
Pollak, Henry, Inc.

Polymer Corporation, The, Reading, Pa. Fine industrial molding powders. 578,250, Aug. 4; Serial No. 629,620, published May 5, 1953. Class 1.

Precision Welder Manufacturing Co., Chicago, Ill. Electric arc welders, cables, and cable clamps. 578,287, Aug. 4; Serial No. 634,112, published May 12, 1953. Class 21.

Premier Dental Products Company, Philadelphia, Pa. Dental supplies. 578,207, Aug. 4; Serial No. 622,846, published May 12, 1953. Class 44.

Previdi, William T., Allendale, N. J. Golfer's equipment. 578,238, Aug. 4; Serial No. 627,833, published May 12, 1953. Class 22.

Price Battery Corporation: *See*—
Witherbee Storage Battery Co. Inc.

Pto. Rico Distilling Co.: *See*—
Puerto Rico Distilling Company.

Puerto Rico Distilling Company, sometimes trading as Pto. Rico Distilling Co., Arecibo, P. R. Skin lotion. 578,180, Aug. 4; Serial No. 614,313, published May 5, 1953. Class 51.

Quaker State Oil Refining Co., to Quaker State Oil Refining Corporation, Oil City, Pa. Lubricating oils and greases. 305,468, renewed Aug. 15, 1953. O. G. Aug. 4. Class 15.

Quaker State Oil Refining Corporation: *See*—
Quaker State Oil Refining Co.

Quality Chemists, Inc., St. Louis, Mo. Hair lotion. 578,208, Aug. 4; Serial No. 623,078, published Apr. 7, 1953. Class 51.

Quik Manufacturing Company: *See*—
Earnshaw, Arthur R.

Raimann, B., G. m. b. H., Freiburg-St. Georgen im Breisgau, Germany. Wood working machines. 578,224, Aug. 4; Serial No. 625,561, published Apr. 28, 1953. Class 23.

Rainey, Milton S., doing business as Rainey's Bait Ranch, Eatonton, Ga. Fish worms. 578,262, Aug. 4; Serial No. 631,310, published May 5, 1953. Class 1.

Rainey's Bait Ranch: *See*—
Rainey, Milton S.

Rangeley Boat & Canoe Co., Portland, Maine. Outboard motor boats and canoes. 578,378, Aug. 4; Serial No. 645,590. Class 19.

Raybestos-Manhattan, Inc., Passaic, N. J. Brake linings and clutch facings. 306,121, renewed Sept. 5, 1953. O. G. Aug. 4. Class 35.

Reed, Austin, Limited, London, England. Dress clothing. 578,138, Aug. 4; Serial No. 534,856, published May 12, 1953. Class 39.

Reid, Robert, Inc., Baltimore, Md. Medical and surgical supplies. 578,203, Aug. 4; Serial No. 622,409, published May 12, 1953. Class 44.

Research Laboratories, Inc., St. Joseph, Mo. Hog cholera vaccine. 578,278, Aug. 4; Serial No. 633,073, published May 5, 1953. Class 18.

Revlon Products Corporation, New York, N. Y. Liquid face make-up preparation. 578,269, Aug. 4; Serial No. 632,268, published May 12, 1953. Class 51.

Richter, George E., Park Ridge, N. J. Vitamin, mineral and herb preparations. 578,374, Aug. 4; Serial No. 634,808. Class 18.

Robinson, Ted, doing business under the trade name and style of Cardinal Products, Hudson Heights, N. J. Preparation for teething pain. 578,316, Aug. 4; Serial No. 636,737, published May 12, 1953. Class 18.

Roe, Wm. G., & Sons: *See*—
Winter Haven Fruit Sales Corporation.

Rolley: *See*—
Rolley, Inc.

Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Perfume, cologne, hand cream, etc. 578,257–8, Aug. 4; Serial Nos. 630,954–5, published May 12, 1953. Class 51.

Rolley, Inc., also doing business as Rolley, San Francisco, Calif. Perfume, cologne, hand cream, etc. 578,259, Aug. 4; Serial No. 630,960, published May 5, 1953. Class 51.

Rosenberg Bros. & Co., to Rosenberg Bros. & Co. Inc., San Francisco, Calif. Raisins. 92,581, re-renewed July 15, 1953. O. G. Aug. 4. Class 46.

Rosenberg Bros. & Co., to Rosenberg Bros. & Co. Inc., San Francisco, Calif. Prunes, raisins, dried fruits, honey and evaporated apples. 306,002, renewed Aug. 29, 1953. O. G. Aug. 4. Class 46.

Rosenberg Bros. & Co. Inc.: *See*—
Rosenberg Bros. & Co.

Rossotti Lithograph Corporation, North Bergen, N. J. Cartons. 578,358, Aug. 4; Serial No. 587,288. Class 2.

Roth, Frank M., doing business as Hi-Sky Products Co., Oshkosh, Nebr. Paint remover and brush softener. 578,274, Aug. 4; Serial No. 632,745, published May 12, 1953. Class 52.

S. & S. Cone Corporation, New York, N. Y. Ice cream cones. 301,170, Feb. 21, 1933. Republished Aug. 4. Class 46.

St. Regis Paper Company, New York, N. Y. Coated kraft paper. 578,272, Aug. 4; Serial No. 632,690, published Mar. 31, 1953. Class 37.

Salude Laboratories, Inc., Brooklyn, N. Y. Dietary supplement. 578,190, Aug. 4; Serial No. 616,512, published May 12, 1953. Class 18.

Samson Cordage Works, Boston, Mass. Clothes line. 578,340, Aug. 4; Serial No. 638,317, published Apr. 28, 1953. Class 7.

Samuel Robert, Inc., Haverhill, Mass. Men's, women's, and children's jackets, coats, suits, and skirts. 578,230, Aug. 4; Serial No. 626,532, published Apr. 28, 1953. Class 39.

Sausage Industry Suppliers Co.: *See*—
Gerst, Arthur J.

Schenley Laboratories, Inc., New York, N. Y. Products used as mixing ingredients or feed supplements. 578,174, Aug. 4; Serial No. 611,312, published May 12, 1953. Class 18.

Schering Corporation, Bloomfield, N. J. Antibiotic. 578,312, Aug. 4; Serial No. 636,499, published May 12, 1953. Class 18.

Schiller Laboratories, Inc., Schiller Park, Ill. Preparation to be used as a textile softener. 578,275, Aug. 4; Serial No. 632,748, published May 12, 1953. Class 6.

Schwarz Laboratories, Inc., New York, N. Y. Products containing metallic nucleates. 578,170, Aug. 4; Serial No. 609,701, published May 12, 1953. Class 18.

Semler, R. B., Inc., New Canaan, assignor to The J. B. Williams Co., Glastonbury, Conn. Hair tonic. 578,220, Aug. 4; Serial No. 624,975, published Apr. 7, 1953. Class 51.

Shannon, John, & Son Limited, Walsall, England. Men's, women's, boys', and girls' macklntoshes; men's, women's, boys', and girls' overcoats, etc. 578,147, Aug. 4; Serial No. 570,640, published Apr. 28, 1953. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Pharmaceutical and medicinal goods, products, and preparations. 578,228, Aug. 4; Serial No. 626,179, published May 12, 1953. Class 18.

Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc. Antibiotic preparation. 578,343–4, Aug. 4; Serial No. 638,608–9, published May 5, 1953. Class 18.

Shaw-Box Crane & Hoist Company, Inc., to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Cranes, hoists, railway drop pit tables, etc. 306,297, renewed Sept. 12, 1953. O. G. Aug. 4. Class 23.

Shaw, Henry W., doing business as Sound-Craft Systems, Pittsburgh, Pa. Portable electric paging system. 578,286, Aug. 4; Serial No. 633,883, published May 12, 1953. Class 21.

Shreveport Garment Manufacturers, Shreveport, La. Men's and boys' overalls, shorts, work pants, etc. 578,317, Aug. 4; Serial No. 636,744, published May 12, 1953. Class 39.

Shure Shot Laboratories: *See*—
Myers, Malvina D.

Silver Suds Company: *See*—
Earnshaw, Arthur R.

Skelly Oil Company, Kansas City, Mo. Natural gasoline, motor gasoline, kerosene, etc. 578,226, Aug. 4; Serial No. 625,870, published May 5, 1953. Class 15.

Skoot Company, The, Hamilton and Dayton, by J. B. Hughes, doing business as The Skoot Company, Hamilton, Ohio. Liniment. 302,411, Apr. 18, 1933. Republished Aug. 4. Class 18.

Slater, Rodger & Company, Limited, Glasgow, Scotland. Whisky. 303,257, May 16, 1933. Republished Aug. 4. Class 49.

Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Medicinal product. 578,184, Aug. 4; Serial No. 614,964, published May 12, 1953. Class 18.

Societe Quartz & Silice, Paris, France. Articles made of agglomerated mica with a vitreous binder and intended for electrical insulation. 578,163, Aug. 4; Serial No. 601,174, published May 12, 1953. Class 21.

Sonotone Corporation, Elmsford, N. Y. Hearing aids and parts thereof. 578,219, Aug. 4; Serial No. 624,865, published Apr. 28, 1953. Class 44.

Sound-Craft Company: *See*—
Shaw, Henry W.

Southern Cotton Oil Company, The, New Orleans, La. Fertilizer. 578,297, Aug. 4; Serial No. 634,999, published Mar. 3, 1953. Class 10.

Southern Mineralite Company, Incorporated, New Orleans, La. Pre-mixed acoustic plaster. 578,199, Aug. 4; Serial No. 621,289, published Apr. 7, 1953. Class 12.

Spangler Candy Company: *See*—
Gilt Edge Candy Co.

Standard Electric Co., Inc., San Antonio, Tex. Separators or insulators for storage batteries. 578,200, Aug. 4; Serial No. 621,338, published May 5, 1953. Class 21.

Standard Fuel Engineering Company, Detroit, Mich. Refractory material in plastic form. 305,050, renewed July 25, 1953. O. G. Aug. 4. Class 12.

Stewart, Samuel F., Balboa, Canal Zone, assignor to Compania Inter-Americana, S. A., Panama City, Panama. Apparel caps. 578,153, Aug. 4; Serial No. 592,055, published Apr. 28, 1953. Class 39.

Stewart-Warner Corporation: *See*—
Alemite Corporation.

Storer Broadcasting Company: *See*—
Fort Industry Company, The.

Strickland, J., & Co., Memphis, Tenn. Hair dressing and hair lotion. 578,288, Aug. 4; Serial No. 634,167, published May 12, 1953. Class 51.

Stringfellow, W. T., & Co., Inc., Nashville, Tenn. Truck-mountable cranes. 578,221, Aug. 4; Serial No. 625,218, published Apr. 28, 1953. Class 23.

Suftko Tool and Die Co., Chicago, Ill. Brushes. 578,209, Aug. 4; Serial No. 623,089, published May 12, 1953. Class 29.

Sulzer Freres, Société Anonyme, Winterthur, Switzerland. Pneumatic suction cleaning installations. 578,290, Aug. 4; Serial No. 634,434, published Apr. 28, 1953. Class 23.

Summit Mills Corporation, New York, N. Y. Sport shirts. 578,276, Aug. 4; Serial No. 632,856, published May 12, 1953. Class 39.

Sun Oil Company, Philadelphia, Pa. Oil. 306,494, re-renewed Sept. 19, 1953. O. G. Aug. 4. Class 15.

Sun Oil Company, Philadelphia, Pa. Gasoline. 306,496, renewed Sept. 19, 1953. O. G. Aug. 4. Class 15.

Supowitz Brothers, Pittsburgh, Pa. Men's shoes. 355,117, Mar. 8, 1938. Republished Aug. 4. Class 39.

SurTopa Laboratory, Inc., Detroit, Mich. Rectal ointment. 578,328, Aug. 4; Serial No. 637,732, published May 5, 1953. Class 18.

Tantro Fabrics Corp., New York, N. Y. Textile fabrics. 578,329, Aug. 4; Serial No. 637,790, published May 12, 1953. Class 42.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. 578,337, Aug. 4; Serial No. 638,224, published May 24, 1953. Class 42.

Tappan Stove Company, The, Mansfield, Ohio. Complete electric ranges and stoves. 578,261, Aug. 4; Serial No. 631,225, published Apr. 7, 1953. Class 21.

Tenny Pharmacy, Inc., New York, N. Y. Cough medicine. 578,222, Aug. 4; Serial No. 625,373, published May 12, 1953. Class 18.

Thomas, P. L., & Co., New York, N. Y. Boxed stationery. 578,162, Aug. 4; Serial No. 600,361, published Mar. 10, 1953. Class 37.

Thompson Winchester Company, Boston, Mass. Adhesive discs. 578,364, Aug. 4; Serial No. 615,613. Class 5.

Toast of the Town Hosiery, Inc., Cleveland, Ohio. Women's hosiery. 578,231, Aug. 4; Serial No. 626,762, published Dec. 30, 1952. Class 39.

Todd, E. M., Company, Incorporated, The, Richmond, Va. Packing house products—namely, hams and bacon and sausage. 301,810, renewed Mar. 14, 1953. O. G. Aug. 4. Class 46.

Toledo Scale Company, Flemington, N. J., and Toledo, Ohio. Kitchen machines. 578,310, Aug. 4; Serial No. 636,157, published May 12, 1953. Class 21.

Torque Manufacturing Corp., Detroit, Mich. Universal joints and parts thereof, and unitary journal and journal bearing assemblies. 578,177, Aug. 4; Serial No. 612,422, published Apr. 28, 1953. Class 23.

Tower, A. J., Company: *See*—
Carter, J. F., Company.

Towncliffe, Inc., New York, N. Y. Ladies' and misses' outer skirts. 578,302, Aug. 4; Serial No. 635,201, published Apr. 28, 1953. Class 39.

Trostel, Albert, & Sons Company, Milwaukee, Wis. Leather. 578,249, Aug. 4; Serial No. 629,411, published May 5, 1953. Class 1.



Turlock Co-Operative Growers, Modesto and San Francisco, Calif. Canned tomato paste. 578,350, Aug. 4; Serial No. 640,656, published May 12, 1953. Class 46.

United Industries, Inc., Chicago, Ill. Stainless steel and aluminum moldings and trims. 578,372, Aug. 4; Serial No. 630,245. Class 12.

United States Rubber Company, New York, N. Y. Woven corrugated textile fabrics. 578,260, Aug. 4; Serial No. 631,134, published May 5, 1953. Class 42.

Upjohn Company, The, Kalamazoo, Mich. Preparation for use in the treatment of a metabolic disorder. 578,330, Aug. 4; Serial No. 637,804, published May 5, 1953. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Preparation for use in connection with the diet of patients. 578,331, Aug. 4; Serial No. 637,805, published May 5, 1953. Class 18.

Urado Products Company, Salt Lake City, Utah. Medicinal oils. 307,043, renewed Oct. 10, 1953. O. G. Aug. 4. Class 18.

V. I. P. Service, Inc., New York, N. Y. Various services performed for clients. 578,355, Aug. 4; Serial No. 629,638, published May 12, 1953. Class 101.

Wacker, Dr., Alexander Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Acetylene, disinfectants, essential oils, etc. 578,376, Aug. 4; Serial No. 641,248. Class 6.

Wade, Wenger & Associates, Inc., Chicago, Ill. Cleaning compound. 578,243, Aug. 4; Serial No. 628,795, published May 12, 1953. Class 52.

Walker, Russell C., Pittsburgh, Pa. Kerman rugs. 578,299, Aug. 4; Serial No. 635,074, published May 12, 1953. Class 42.

Watkins, J. R., Company, The, Winona, Minn. Medicated greaseless skin ointment. 578,338, Aug. 4; Serial No. 638,279, published May 5, 1953. Class 18.

Weiss Lawrence, Inc., Somerswortth, N. H. Shoes. 578,271, Aug. 4; Serial No. 632,402, published May 5, 1953. Class 39.

Wembley, Inc., New Orleans, La. Men's necktles and scarfs. 578,314, Aug. 4; Serial No. 636,619, published May 12, 1953. Class 39.

Werner, A. C., Co.: *See*—
Werner, Arthur C.

Werner, Arthur C., doing business under the fictitious name and style of A. C. Werner Co., Lodi, Calif. Mucilage holder and applier. 578,148, Aug. 4; Serial No. 572,706, published Mar. 31, 1953. Class 37.

Western Condensing Company, San Francisco, Calif. Dried whey. 578,375, Aug. 4; Serial No. 635,616. Class 46.

Western Lithogranh Company, Los Angeles, Calif. Blank and partially printed pressure-sensitive labels. 578,178, Aug. 4; Serial No. 613,390, published Mar. 31, 1953. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 578,137, Aug. 4; Serial No. 526,174, published Mar. 31, 1953. Class 37.

Westinghouse Electric Corporation, East Pittsburgh, Pa., and Elmira, N. Y. Electronic tubes. 578,336, Aug. 4; Serial No. 638,174, published May 12, 1953. Class 21.

Wilhar's, Inc., Boston, Mass. Ladies' shoes, and ladies' hats and caps. 578,225, Aug. 4; Serial No. 625,704, published Apr. 28, 1953. Class 39.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Wax candles. 578,198, Aug. 4; Serial No. 620,708, published May 5, 1953. Class 15.

Williams, J. B., Co., The, assignee: *See*—
Semler, R. B., Inc.

Williams, R. C., & Company, Inc.: *See*—
Meyer & Lange.

Winco Associates, Inc., Chicago, Ill. Hair setting preparations. 578,218, Aug. 4; Serial No. 624,435, published May 12, 1953. Class 51.

Winter Haven Fruit Sales Corporation, Wm. G. Roe & Sons, Winter Haven, Fla. Fresh citrus fruits. 305,675, renewed Aug. 22, 1953. O. G. Aug. 4. Class 46.

Witherbee Storage Battery Co.: *See*—
Witherbee Storage Battery Co. Inc.

Witherbee Storage Battery Co. Inc., Belleville, N. J., by Witherbee Price Battery Corporation, doing business as Witherbee Storage Battery Co., Hamburg, Pa. Storage batteries. 299,413, Dec. 6, 1932. Republished Aug. 4. Class 21.

Wohltman, Max P., doing business as Ford-Ideal Laundry Co., Kansas City, Mo. Laundry service. 578,379, Aug. 4; Serial No. 613,354. Class 103.

Wulff, Maggie, doing business as Wulff Public Relations, Cleveland, Ohio. Entertainment service. 578,381, Aug. 4; Serial No. 637,632. Class 107.

Wulff Public Relations: *See*—
Wulff, Maggie.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Chemical cotton pulp (alpha cellulose). The Buckeye Oil Company. 578,151, Aug. 4; Serial No. 590,803, published May 12, 1953.

Fish worms. M. S. Rainey. 578,282, Aug. 4; Serial No. 631,310, published May 5, 1953.

Leather. Albert Trostel & Sons Company. 578,249, Aug. 4; Serial No. 629,411, published May 5, 1953.

Live chinchillas and chinchilla pelts. E. E. Nelson. 578,256, Aug. 4; Serial No. 630,852, published May 5, 1953.

Live turkey poults. Missouri Poultry Improvement Association. 578,382, Aug. 4; Serial No. 630,280.

Molding powders, Fine industrial. The Polymer Corporation. 578,250, Aug. 4; Serial No. 629,620, published May 5, 1953.

Packaged ice. T. D. Meachain. 578,264, Aug. 4; Serial No. 631,358, published Apr. 28, 1953.

Refined tall oil. Farac Oil and Chemical Company. 578,305, Aug. 4; Serial No. 635,413, published Apr. 28, 1953.

Seed mixture, Lawn. Lee Patten Seed Company. 578,247, Aug. 4; Serial No. 629,118, published Apr. 28, 1953.

Species of bentonite clay. American Colloid Company. 578,227, Aug. 4; Serial No. 626,135, published Apr. 28, 1953.

Sulphite woodpulp, groundwood woodpulp and mutilated sideruns. Bowater Paper Company, Inc. 578,235, Aug. 4; Serial No. 627,667, published Apr. 28, 1953.

Wood pulp. Gottesman & Company, Incorporated. 306,981, renewed Oct. 10, 1953. O. G. Aug. 4.

## CLASS 2

Cartons. Rossotti Lithograph Corporation. 578,358, Aug. 4; Serial No. 587,288.

## CLASS 4

Polish, Automobile. Able Industries Corporation. 578,164, Aug. 4; Serial No. 601,401, published May 12, 1953.

Wax, Cleaning and polishing. Chaffee Manufacturing Company. 578,373, Aug. 4; Serial No. 632,075.

## CLASS 5

Adhesive. Bard's Products, Inc. 578,303, Aug. 4; Serial No. 635,344, published May 12, 1953.

Adhesive cement or glue, Liquid or fluid. G. C. Hilton. 306,505, renewed Sept. 19, 1953. O. G. Aug. 4.

Adhesive discs. Thompson Winchester Company. 578,364, Aug. 4; Serial No. 615,613.

Paste used for pasting paper to enameled and the like surfaces. Kohler Co. 301,822, Mar. 14, 1933. Republished Aug. 4.

## CLASS 6

Acetylene, disinfectants, essential oils, etc. Dr. Alexander Wacker Gesellschaft fur Elektrocbemische Industrie, G. m. b. H. 578,376, Aug. 4; Serial No. 641,248.

Chemical preparation. Golden Bear Oil Co. 430,362, June 10, 1947. Republished Aug. 4.

Compounds for exterminating lice and bugs. Berwyn Chemical Company, Incorporated. 578,146, Aug. 4; Serial No. 565,166, published May 5, 1953.

Deodorizer, germicide, and disinfectant. V. S. Carson. 578,309, Aug. 4; Serial No. 635,901, published May 12, 1953.

Insect repellent. House of Twain, Inc. 578,377, Aug. 4; Serial No. 643,324.

Preparation to be used as a textile softener. Schiller Laboratories, Inc. 578,275, Aug. 4; Serial No. 632,748, published May 12, 1953.

## CLASS 7

Clothes line. Samson Cordage Works. 578,340, Aug. 4; Serial No. 638,317, published Apr. 28, 1953.

Rope, Wire. The Colorado Fuel and Iron Corporation. 578,348, Aug. 4; Serial No. 638,755, published May 5, 1953.

## CLASS 8

Articles of glass—namely, glass ash trays and cigarette boxes and cigarette containers. Corning Glass Works. 578,179, Aug. 4; Serial No. 613,764, published Oct. 28, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)

Articles of glass—namely, glass ash trays and cigarette boxes and cigarette containers. Corning Glass Works. 578,183, Aug. 4; Serial No. 614,868, published Oct. 28, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)

## CLASS 10

Fertilizer. The Southern Cotton Oil Company. 578,297, Aug. 4; Serial No. 634,999, published Mar. 3, 1953.

CLASS 12

Asbestos-cement product. Keasbey & Mattison Company. 300,366, Jan. 17, 1933. Republished Aug. 4.
Board, Wood fibre. Midwest Plywood Company. 578,369, Aug. 4; Serial No. 625,211.
Bricks. The Alliance Clay Products Co. 578,321, Aug. 4; Serial No. 637,292, published Apr. 21, 1953.
Building insulation materials. Air Seal Corporation. 578,144, Aug. 4; Serial No. 560,081, published Oct. 14, 1952.
Concrete, Ready-mixed. Pioneer Sand and Gravel Company. 578,189, Aug. 4; Serial No. 616,467, published Apr. 7, 1953.
Doors, Wooden. Michigan Door Company. 578,322, Aug. 4; Serial No. 637,385, published Apr. 21, 1953.
Extruded metal shapes comprising metal trims, namely, moldings for walls and floors, etc. General Extrusions, Incorporated. 578,217, Aug. 4; Serial No. 624,231, published Apr. 7, 1953.
Mineral wool thermal insulation. Johns-Manville Corporation. 578,204, Aug. 4; Serial No. 622,343, published Apr. 7, 1953.
Moldings and trims, Stainless steel and aluminum. United Industries, Inc. 578,372, Aug. 4; Serial No. 630,245.
Plaster, Pre-mixed acoustic. Southern Mineralite Company, Incorporated. 578,199, Aug. 4; Serial No. 621,289, published Apr. 7, 1953.
Prefabricated structural panels and reinforcing strip members. Biwall Panel Structures, Inc. 578,181, Aug. 4; Serial No. 614,685, published Apr. 7, 1953.
Refractory material in plastic form. Standard Fuel Engineering Company. 305,050, renewed July 25, 1953. O. G. Aug. 4.
Thermosetting resin and powder used as ingredients for making corrosion resistant cement. The Atlas Mineral Products Company of Pennsylvania. 578,173, Aug. 4; Serial No. 611,235, published Apr. 7, 1953.

CLASS 13

Fire fighting hose and nozzle racks, both with and without hose and nozzles. Bowser, Inc. 578,356, Aug. 4; Serial No. 536,227.

CLASS 15

Candles, Wax. Will & Baumer Candle Co., Inc. 578,198, Aug. 4; Serial No. 620,708, published May 5, 1953.
Gasoline. The Panhandle Producing and Refining Company. 578,172, Aug. 4; Serial No. 610,484, published May 5, 1953.
Gasoline. Sun Oil Company. 306,496, renewed Sept. 19, 1953. O. G. Aug. 4.
Gasoline, Natural, motor gasoline, kerosene, etc. Skelly Oil Company. 578,226, Aug. 4; Serial No. 625,870, published May 5, 1953.
Graphite additive for improving lubricating oil. E. A. Hartmann. 578,254, Aug. 4; Serial No. 630,300, published May 5, 1953.
Oil. Sun Oil Company. 306,494, renewed Sept. 19, 1953. O. G. Aug. 4.
Oils and greases, Lubricating. Quaker State Oil Refining Co. 305,468, renewed Aug. 15, 1953. O. G. Aug. 4.

CLASS 16

Paint enamels and varnishes, Automobile and metal, mixed paints, etc. Nu-Enamel Corporation. 578,141, Aug. 4; Serial No. 543,317, published May 12, 1953.
Paints, varnishes, paint enamels, etc. Brooklyn Varnish Manufacturing Company, Inc. 578,156, Aug. 4; Serial No. 598,151, published Apr. 28, 1953.
Tempera colors. Binney & Smith Company. 307,865, renewed Nov. 7, 1953. O. G. Aug. 4.

CLASS 17

Cigars. Hemmeter Cigar Company. 91,484, re-renewed May 6, 1953. O. G. Aug. 4.

CLASS 18

Antibiotic. Schering Corporation. 578,312, Aug. 4; Serial No. 636,499, published May 12, 1953.
Antibiotic preparation. Chas. Pfizer & Co., Inc. 578,332, Aug. 4; Serial No. 637,943, published May 5, 1953.
Antibiotic preparation. Sharp & Dohme Incorporated. 578,343–4, Aug. 4; Serial Nos. 638,608–9, published May 5, 1953.
Cough medicine. Tenny Pharmacy, Inc. 578,222, Aug. 4; Serial No. 625,373, published May 12, 1953.
Cough sirup. First Texas Chemical Manufacturing Co. 578,135, Aug. 4; Serial No. 595,131, published May 12, 1953.
Dietary supplement. Salude Laboratories, Inc. 578,190, Aug. 4; Serial No. 616,512, published May 12, 1953.
Eye-drops. C. H. Boehringer, Sohn. 578,176, Aug. 4; Serial No. 612,103, published May 12, 1953.
Feed supplement. American Cyanamid Company. 578,270, Aug. 4; Serial No. 632,340, published May 12, 1953.
Foot powder and liquid for use as a fungicidal antiseptic. J. L. Petranek. 578,158, Aug. 4; Serial No. 599,113, published May 12, 1953.
Germicidal and fungicidal composition. N. Castaldo. 578,232, Aug. 4; Serial No. 627,112, published May 12, 1953.
Hypnotic sedative anesthetic compound. Abbott Laboratories. 578,279, Aug. 4; Serial No. 633,189, published May 12, 1953.
Iodine for medicinal purposes. Medical Iodine Laboratories, Inc. 578,340, Aug. 4; Serial No. 638,774, published May 5, 1953.
Liniment. The Skoot Company. 302,411, Apr. 18, 1933. Republished Aug. 4.
Medicament. Chemischen Laboratorium am Heiligengeistfeld G. m. b. H. 578,244–5, Aug. 4; Serial Nos. 628,888–9, published May 12, 1953.
Medicaments. S. Pfeiffer Manufacturing Company. 578,335, Aug. 4; Serial No. 638,096, published May 5, 1953.
Medicinal oils. Urado Products Company. 307,043, renewed Oct. 10, 1953. O. G. Aug. 4.
Medicinal preparation. Chicago Pharmacal Company. 578,315, Aug. 4; Serial No. 636,686, published May 12, 1953.
Medicinal preparation. E. K. Cook & Co., Inc. 578,185, Aug. 4; Serial No. 615,210, published May 12, 1953.
Medicinal preparation. Eli Lilly and Company. 578,319, Aug. 4; Serial No. 637,056, published May 12, 1953.
Medicinal preparation. Eli Lilly and Company. 578,347, Aug. 4; Serial No. 638,729, published May 12, 1953.
Medicinal preparations. Dome Chemicals, Inc. 578,300, Aug. 4; Serial No. 635,174, published May 5, 1953.
Medicinal product. Societe des Usines Chimiques Rhone-Poulenc. 578,184, Aug. 4; Serial No. 614,964, published May 12, 1953.
Ointment, Medicated greaseless skin. The J. R. Watkins Company. 578,338, Aug. 4; Serial No. 638,279, published May 5, 1953.
Ointment, Rectal. SurTops Laboratory, Inc. 578,328, Aug. 4; Serial No. 637,732, published May 5, 1953.
Pharmaceutical and medicinal goods, products, and preparations. Sharp & Dohme, Incorporated. 578,228, Aug. 4; Serial No. 626,179, published May 12, 1953.
Pharmaceutical preparation. Nutrition Research Laboratories, Inc. 578,318, Aug. 4; Serial No. 636,861, published May 12, 1953.
Pharmaceutical preparation, Chemo-therapeutic. W. L. Mayer. 578,197, Aug. 4; Serial No. 620,548, published May 12, 1953.
Preparation for teething pain. T. Robinson. 578,316, Aug. 4; Serial No. 636,737, published May 12, 1953.
Preparation for use in connection with the diet of patients. The Upjohn Company. 578,331, Aug. 4; Serial No. 637,805, published May 5, 1953.
Preparation for use in the treatment of a metabolic disorder. The Upjohn Company. 578,330, Aug. 4; Serial No. 637,804, published May 5, 1953.
Products containing metallic nucleates. Schwarz Laboratories, Inc. 578,170, Aug. 4; Serial No. 609,701, published May 12, 1953.
Products used as mixing ingredients or feed supplements. Schenley Laboratories, Inc. 578,174, Aug. 4; Serial No. 611,312, published May 12, 1953.
Vaccine, Hog cholera. Research Laboratories, Inc. 578,278, Aug. 4; Serial No. 633,073, published May 5, 1953.
Veterinary liquid preparation, External. J. A. Fitzsimmons. 578,191, Aug. 4; Serial No. 616,627, published May 12, 1953.
Vitamin, mineral and herb preparations. G. E. Richter. 578,374, Aug. 4; Serial No. 634,606.
Vitamin mixture. Farmcraft Feeds, Inc. 578,241, Aug. 4; Serial No. 627,935, published May 12, 1953.

CLASS 19

Airplanes. Consolidated Vultee Aircraft Corporation. 578,239, Aug. 4; Serial No. 627,865, published May 12, 1953.
Boats and canoes, Outboard motor. Rangeley Boat & Canoe Co. 578,378, Aug. 4; Serial No. 645,590.
Hydraulically controlled valve responsive to the manifold pressure of an automotive engine, etc. Hager & Jones. 578,361, Aug. 4; Serial No. 597,074.
Motorcycles. International Soort Motors, Ltd. 578,161, Aug. 4; Serial No. 600,266, published May 12, 1953.
Motor vehicle heaters and air conditioners. Nash-Kelvinator Corporation. 578,159, Aug. 4; Serial No. 599,895, published Apr. 24, 1951.
Visors for automobiles. JAK Visor Company. 578,351, Aug. 4; Serial No. 643,425, published May 12, 1953.

CLASS 21

Articles made of agglomerated mica with a vitreous binder and intended for electrical insulation. Societe Quartz & Silice. 578,163, Aug. 4; Serial No. 601,174, published May 12, 1953.
Batteries, Storage. Cadnic Corporation. 578,320, Aug. 4; Serial No. 637,237, published May 5, 1953.
Batteries, Storage. Witherbee Storage Battery Co. Inc. 299,413, Dec. 6, 1932. Republished Aug. 4.
Conduits. Breeze Corporation, Inc. 305,352, renewed
Electric arc welders, cables, and cable clamps. Precision Welder Manufacturing Co. 578,287, Aug. 4; Serial No. 634,112, published May 12, 1953.



Electric cord, Insulated. General Electric Company. 578,339, Aug. 4; Serial No. 638,299, published May 12, 1953.
Electric paging system, Portable. H. W. Shaw. 578,286, Aug. 4; Serial No. 633,883, published May 12, 1953.
Electric resistors. The Electric Controller & Manufacturing Company. 578,143, Aug. 4; Serial No. 550,679, published May 12, 1953.
Electrical, air-deodorizing apparatus. Easy-Eye Lighting, Inc. 578,296, Aug. 4; Serial No. 634,971, published May 5, 1953.
Electrical and magnetized phonograph records, recording wire and recording tape. C. Schous Fabriker A/S. 578,325, Aug. 4; Serial No. 637,525, published May 5, 1953.
Electrical apparatus. American Cystoscope Makers, Inc. 578,333, Aug. 4; Serial No. 637,982, published May 12, 1953.
Electrical chassis for radio receivers. Motorola, Inc. 578,323, Aug. 4; Serial No. 637,388, published May 5, 1953.
Electrically-driven, beating, treating, and mixing machines. The Kitchenaid Manufacturing Company. 304,834, renewed July 18, 1953. O. G. Aug. 4.
Electromagnetic vibrating feeders and electrical power units. Allis-Chalmers Manufacturing Company. 578,182, Aug. 4; Serial No. 614,804, published May 12, 1953.
Electromechanical intelligence analyzing apparatus. International Standard Trading Corporation. 578,213, Aug. 4; Serial No. 624,086, published May 5, 1953.
Electronic deodorizers. Estelilite Company, Inc. 578,304, Aug. 4; Serial No. 635,354, published May 5, 1953.
Electronic tubes. Westinghouse Electric Corporation. 578,336, Aug. 4; Serial No. 638,174, published May 12, 1953.
Irons, Electric. The Hoover Company. 578,291, Aug. 4; Serial No. 634,408, published May 5, 1953.
Kitchen machines. Toledo Scale Company. 578,310, Aug. 4; Serial No. 636,157, published May 12, 1953.
Ranges and stoves, Complete electric. The Tappan Stove Company. 578,261, Aug. 4; Serial No. 631,225, published Apr. 7, 1953.
Separators or insulators for storage batteries. Standard Electric Co., Inc. 578,200, Aug. 4; Serial No. 621,338, published May 5, 1953.
Television receiving sets. Hoffman Radio Corporation. 578,175, Aug. 4; Serial No. 611,844, published Sept. 2, 1952.
Welding accessories. The Beryllium Corporation. 578,277, Aug. 4; Serial No. 632,915, published May 5, 1953.
Wire products. Jersey Specialty Company, Inc. 578,267, Aug. 4; Serial No. 632,089, published May 12, 1953.

CLASS 22

Bowling alleys and parts thereof; pins, balls, etc. The Brunswick-Balke-Collender Company. 578,157, Aug. 4; Serial No. 598,882, published May 12, 1953.
Fish hook removers. J. P. Boyd. 578,366, Aug. 4; Serial No. 617,861.
Fish hooks, ice and roller skates, tennis and fish nets, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,137, renewed Feb. 21, 1953. O. G. Aug. 4.
Fish lure, Artificial. National Expert Bait Co. 578,311, Aug. 4; Serial No. 636,245, published May 12, 1953.
Fishing bait, Artificial. P. P. Dalton. 578,150, Aug. 4; Serial No. 590,654, published May 12, 1953.
Golfer's equipment. W. T. Previdi. 578,238, Aug. 4; Serial No. 627,833, published May 12, 1953.

CLASS 23

Apparatus for extinguishing fire. Deutsche Gold- & Silber-Scheideanstalt. 301,138, renewed Feb. 21, 1953. O. G. Aug. 4.
Car-movers. W. McLeish. 92,103, re-renewed June 17, 1953. O. G. Aug. 4.
Carpet sweepers. Modern Carpet Sweeper Co., Inc. 578,298, Aug. 4; Serial No. 635,047, published Apr. 28, 1953.
Cranes, hoists, railway drop pit tables, etc. Shaw-Box Crane & Hoist Company, Inc. 306,297, renewed Sept. 12, 1953. O. G. Aug. 4.
Cranes, Truck-mountable. W. T. Stringfellow & Co., Inc. 578,221, Aug. 4; Serial No. 625,218, published Apr. 28, 1953.
Fuel feed control apparatus. General Metals Corporation. 578,166, Aug. 4; Serial No. 602,446, published Apr. 28, 1953.
Hand and motor driven mechanical fruit juice extractors. The Magnavox Company. 303,946, renewed June 13, 1953. O. G. Aug. 4.
Hand operated hydraulically powered lift. American Thermal Industries, Inc. 578,294, Aug. 4; Serial No. 634,831, published Apr. 28, 1953.
Hoist, Stationary hydraulic automobile. Globe Hoist Company. 578,371, Aug. 4; Serial No. 629,485.
Lathes and turning machines. The Cleveland Hobbing Machine Company. 578,216, Aug. 4; Serial No. 624,226, published Apr. 28, 1953.
Lubricating systems. Alemite Corporation. 303,855, renewed June 13, 1953. O. G. Aug. 4.
Machine for making wreaths. Hillman Wreatber Ring & Machine Co. 578,365, Aug. 4; Serial No. 617,440.
Pneumatic suction cleaning installations. Sulzer Freres Société Anonyme. 578,290, Aug. 4; Serial No. 634,434, published Apr. 28, 1953.
Printing rolls. Paper Machinery and Research, Inc. 578,363, Aug. 4; Serial No. 614,459.
Sewing machines, sewing machine parts, sewing machine needles, etc. Esael Import-Export Co., Inc. 578,252, Aug. 4; Serial No. 629,997, published Apr. 28, 1953.
Tools, and machines and parts thereof for use in screw connections. Heli-Coil Corporation. 578,263, Aug. 4; Serial No. 631,418, published Apr. 28, 1953.
Tools, Hand. Hy-Pro Tool Company. 578,236, Aug. 4; Serial No. 627,818, published Apr. 28, 1953.
Universal joints and parts thereof, and unitary journal and journal bearing assemblies. Torque Manufacturing Corp. 578,177, Aug. 4; Serial No. 612,422, published Apr. 28, 1953.
Wood working machines. B. Raimann, G. m. b. H. 578,224, Aug. 4; Serial No. 625,561, published Apr. 28, 1953.

CLASS 24

Laundry driers. Deutsche Gold- & Silber-Scheideanstalt. 301,139, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 25

Coin bag seals. E. J. Brooks Company. 578,368, Aug. 4; Serial No. 623,644.

CLASS 26

Drawing instruments, laboratory fittings. Deutsche Gold- & Silber-Scheideanstalt. 301,140, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 27

Watches, clocks, and parts thereof. Deutsche Gold- & Silber-Scheideanstalt. 301,142, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 28

Jewelry. Deutsche Gold- & Silber-Scheideanstalt. 301,141, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 29

Brushes. Suftko Tool and Die Co. 578,209, Aug. 4; Serial No. 623,089, published May 12, 1953.
Brushes, Fountain. Marsh Stencil Machine Company. 578,359, Aug. 4; Serial No. 587,962.
Brushes, Tooth, hair brushes, scrubbing brushes, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,143, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 30

Porcelain or real china. Deutsche Gold- & Silber-Scheideanstalt. 301,144, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 31

Filter units, Removable oil. Mitchell Manufacturing Company. 578,360, Aug. 4; Serial No. 596,177.
Filters, filter distributors, etc. Infilco Incorporated. 410,350, Nov. 21, 1944. Corrected. O. G. Aug. 4.
Refrigerators, Household and store. The Hecht Co. 319,844, Mar. 13, 1934. Republished Aug. 4.

CLASS 32

Book-ends. Corning Glass Works. 578,179, Aug. 4; Serial No. 633,258, published Oct. 28, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Book-ends. Corning Glass Works. 578,183, Aug. 4; Serial No. 633,257, published Oct. 28, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Furniture, House, office, store, shop, porch, and lawn. Deutsche Gold- & Silber-Scheideanstalt. 301,145, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 33

Breakfast, luncheon and dinnerware, open and covered serving dishes and trays, etc. Corning Glass Works. 578,179, Aug. 4; Serial No. 613,765, published Aug. 26, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Breakfast, luncheon and dinnerware, open and covered serving dishes and trays, etc. Corning Glass Works. 578,183, Aug. 4; Serial No. 614,869, published Aug. 26, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Glass, table and flat glassware, glass in bulk, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,146, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 34

Boilers and radiators, Heating. Kohler Co. 303,273, May 16, 1933. Republished Aug. 4.
Candlesticks and candelabra. Corning Glass Works. 578,179, Aug. 4; Serial No. 613,766, published Sept. 16, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Candlesticks and candelabra. Corning Glass Works. 578,183, Aug. 4; Serial No. 614,870, published Sept. 16, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Furnaces, Coal burning. Dominion Foundry Company. 578,370, Aug. 4; Serial No. 628,349.

Lighting apparatus, Gas and oil, gas, oil, water, etc., heating and cooking apparatus, etc. Deutsche Gold- & Sliber-Scheideanatalt. 301,147, renewed Feb. 21, 1953. O. G. Aug. 4.

CLASS 35

Belting, Power transmission. Manheim Manufacturing & Belting Company. 578,246, Aug. 4; Serial No. 628,950, published May 12, 1953.
Belts, Cotton and leather driving, leather and rubber hose and packing materials. Deutsche Gold- & Silber-Scheideanstalt. 301,148, renewed Feb. 21, 1953. O. G. Aug. 4.
Brake linings and clutch facings. Raybestos-Manhattan, Inc. 306,121, renewed Sept. 5, 1953. O. G. Aug. 4.
Cork disks and washers. New Process Cork Company. 92,905, Aug. 5, 1913. Republished Aug. 4.
Hose, Plastic garden. Boston Woven Hose and Rubber Company. 578,248, Aug. 4; Serial No. 629,140, published May 12, 1953.
Piston rings. Hastings Manufacturing Company. 578,193, Aug. 4; Serial No. 617,497, published May 12, 1953.

CLASS 37

Blank and partially printed pressure-sensitive labels. Western Lithograph Company. 578,178, Aug. 4; Serial No. 613,390, published Mar. 31, 1953.
Crayons, Wax. Binney & Smith Company. 307,867, renewed Nov. 7, 1953. O. G. Aug. 4.
Inkwells, Glass, and paperweights. Corning Glass Works. 578,179, Aug. 4; Serial No. 613,767, published Aug. 5, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Inkwells, Glass, and paperweights. Corning Glass Works. 578,183, Aug. 4; Serial No. 614,871, published Aug. 5, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Mucilage holder and applier. A. C. Werner. 578,148, Aug. 4; Serial No. 572,706, published Mar. 31, 1953.
Paper, Chemically treated. The Munising Paper Company. 578,268, Aug. 4; Serial No. 632,093, published Mar. 31, 1953.
Paper, Coated kraft. St. Regis Paper Company. 578,272, Aug. 4; Serial No. 632,690, published Mar. 31, 1953.
Paper tablets. Western Tablet & Stationery Corporation. 578,137, Aug. 4; Serial No. 526,174, published Mar. 31, 1953.
Pencils. National Tuberculosis Association. 578,285, Aug. 4; Serial No. 633,853, published Mar. 10, 1953.
Pens, Fountain, mechanical pencils, and desk sets. The Parker Pen Company. 305,672, Aug. 22, 1933. Republished Aug. 4.
Stationery, Boxed. P. L. Thomas & Co. 578,162, Aug. 4; Serial No. 600,361, published Mar. 10, 1953.
Tissues, White, colored, silver, kraft-non-tarnishing, ribbed wrapping, printed and lithographed paper gift wraps, etc. The Crystal Tissue Company. 578,192, Aug. 4; Serial No. 617,013, published Mar. 24, 1953.

CLASS 39

Bibs. Donovan Enterprises. 578,201, Aug. 4; Serial No. 622,150, published Apr. 28, 1953.
Boots. The Cambridge Rubber Company. 578,240, Aug. 4; Serial No. 627,927, published Apr. 28, 1953.
Boots. C. & J. Clark Limited. 578,168, Aug. 4; Serial No. 604,687, published Apr. 28, 1953.
Boots and shoes. Mansfield and Sons, Limited. 578,292, Aug. 4; Serial No. 634,746, published Apr. 28, 1953.
Caps, M. Greenwald. 578,283, Aug. 4; Serial No. 633,787, published May 12, 1953.
Caps, Apparel. S. F. Stewart. 578,153, Aug. 4; Serial No. 592,055, published Apr. 28, 1953.
Clothing, Dress. Austin Reed, Limited. 578,138, Aug. 4; Serial No. 534,856, published May 12, 1953.
Clothing, Oiled. J. F. Carter Company. 94,057, renewed Nov. 4, 1953. O. G. Aug. 4.
Clothing, Protective. The Olympic Glove Company, Inc. 578,215, Aug. 4; Serial No. 624,146, published May 5, 1953.
Coats, Fur, fur capes, and fur jackets. Jerome Edelstein, Inc. 578,324, Aug. 4; Serial No. 637,483, published May 12, 1953.
Coats, suits, jackets, and skirts, Ladies' and misses'. The House of Swansdown, Inc. 578,301, Aug. 4; Serial No. 635,182, published Apr. 28, 1953.
Diapers and diaper liners. Chicopee Mills, Inc. 578,214, Aug. 4; Serial No. 624,123, published Apr. 28, 1953.
Dresses, coats, suits, capes, etc., Ladies'. Norman Hartnell, Limited. 578,145, Aug. 4; Serial No. 564,251, published May 12, 1953.
Garment set, Infants' play. Napper Company, Incorporated. 578,211, Aug. 4; Serial No. 623,846, published May 5, 1953.
Garments, Infants' sleeping. Jolly Kids Togs. 578,188, Aug. 4; Serial No. 616,174, published May 5, 1953.
Hats, bonnets, and scarfs. S. Neger. 578,280, Aug. 4; Serial No. 633,209, published May 12, 1953.
Hats, Bridal and bridal veils. David Dubin Co. Inc. 578,167, Aug. 4; Serial No. 605,524, published May 12, 1953.
Hats, Men's and boys'. Britanny Hat Co., Inc. 578,293, Aug. 4; Serial No. 634,774, published May 12, 1953.
Hats, Women's. Henry Pollak, Inc. 301,200, renewed Feb. 21, 1953. O. G. Aug. 4.
Hats, Women's and children's felt. Henry Pollak, Inc. 301,178, renewed Feb. 21, 1953. O. G. Aug. 4.
Head gear. The Bamberger-Reinthal Company. 578,152, Aug. 4; Serial No. 591,662, published Apr. 28, 1953.
Headwear. Hat Corporation of America. 578,196, Aug. 4; Serial No. 620,039, published May 12, 1953.
Hosiery, National Shoes, Inc. 578,367, Aug. 4; Serial No. 619,679.
Hosiery and underwear. Hillsboro Hosiery Mills, Inc. 410,316, Nov. 21, 1944. Republished Aug. 4.
Hosiery, Women's. Toast of the Town Hosiery, Inc. 578,231, Aug. 4; Serial No. 626,762, published Dec. 30, 1952.
Jackets, coats, suits and skirts, Men's, women's and children's. Samuel Robert, Inc. 578,230, Aug. 4; Serial No. 626,532, published Apr. 28, 1953.
Mackintoshes, Men's, women's, boys', and girls'; men's, women's, boys' and girls' overcoats, etc. John Shannon & Son Limited. 578,147, Aug. 4; Serial No. 570,640, published Apr. 28, 1953.
Overalls, shorts, work pants, etc., Men's and boys'. Shreveport Garment Manufacturers. 578,317, Aug. 4; Serial No. 636,744, published May 12, 1953.
Pajamas, Men's and women's. Lubin-Weeker Co., Inc. 578,195, Aug. 4; Serial No. 619,251, published May 5, 1953.
Pajamas, pajama coats, beach coats, etc., Women's and girls'. Kaylon Incorporated. 578,237, Aug. 4; Serial No. 627,823, published Apr. 28, 1953.
Raincoats, Men's, women's, boys' and girls'. Plastics Products Company, Inc. 578,242, Aug. 4; Serial No. 628,777, published May 5, 1953.
Raincoats, Women's and girls'. The Gillette Company. 578,266, Aug. 4; Serial No. 632,028, published Apr. 28, 1953.
Shirts and sport shirts, Men's and boys' dress. Bedford Shirt Corp. 578,265, Aug. 4; Serial No. 631,647, published May 12, 1953.
Shirts, Sport. Summit Mills Corporation. 578,276, Aug. 4; Serial No. 632,856, published May 12, 1953.
Shoes. Weiss Lawrence, Inc. 578,271, Aug. 4; Serial No. 632,402, published May 5, 1953.
Shoes, Ladies' and ladies' hats and caps. Wilbar's, Inc. 578,225, Aug. 4; Serial No. 625,704, published Apr. 28, 1953.
Shoes, Men's. Supowitz Brothers. 355,117, Mar. 8, 1938. Republished Aug. 4.
Shoes, Women's and men's. A. S. Beck Shoe Corporation. 578,306, Aug. 4; Serial No. 635,458, published Apr. 28, 1953.
Shoes, Women's sport. Oomphies, Inc. 564,951, Oct. 7, 1952. Corrected. O. G. Aug. 4.
Skirts, Ladies' and misses' outer. Townscliffe, Inc. 578,302, Aug. 4; Serial No. 635,201, published Apr. 28, 1953.
Slippers, Children's. Blanklette Corporation. 578,212, Aug. 4; Serial No. 623,871, published Apr. 28, 1953.
Snow suits, jackets, pants, and leggings, Infants' and children's. Colonial Togs. 578,255, Aug. 4; Serial No. 630,759, published Apr. 28, 1953.
Soles and heels. Bearfoot Sole Company, Inc. 578,186, Aug. 4; Serial No. 615,476, published Feb. 26, 1952.
Sweaters. Benjamin Moseley Co. Inc. 578,284, Aug. 4; Serial No. 633,831, published Apr. 28, 1953.
Sweaters, basque shirts, shirts, etc. The Hettrick Manufacturing Company. 578,160, Aug. 4; Serial No. 599,945 published May 5, 1953.
Trunks, Swimming, outer shorts, and swimming suits. Jantzen Knitting Mills Inc. 578,251, Aug. 4; Serial No. 629,897, published May 12, 1953.

CLASS 41

Umbrellas. Friedman & Sons. 578,289, Aug. 4; Serial No. 634,323, published Mar. 17, 1953.

CLASS 42

Blankets. Beacon Manufacturing Company. 307,334, renewed Oct. 24, 1953. O. G. Aug. 4.
Comforters and blankets, Filled. Heberlee Air-Lite, Inc. 578,308, Aug. 4; Serial No. 635,651, published May 12, 1953.
Fabric, Knitted. Armtex, Incorporated. 578,345, Aug. 4; Serial No. 638,629, published May 12, 1953.
Fabric, Textile. American Cyanamid Company. 578,202, Aug. 4; Serial No. 622,245, published May 12, 1953.
Fabrics, Plastic-coated cotton and linen. W. Brandwein. 578,346, Aug. 4; Serial No. 638,633, published May 12, 1953.
Fabrics, Textile. Mandee Fabrics, Inc. 578,327, Aug. 4; Serial No. 637,660, published May 12, 1953.
Fabrics, Textile. Manufactures de Senones (Vosges) Société A Responsabilité Limitée. 578,229, Aug. 4; Serial No. 626,396, published May 5, 1953.
Fabrics, Textile. North American Commercial Corporation. 578,334, Aug. 4; Serial No. 638,093, published May 12, 1953.
Fabrics, Textile. Tanbro Fabrics Corp. 578,329, Aug. 4; Serial No. 637,799, published May 12, 1953.
Fabrics, Textile. Tanbro Fabrics Corp. 578,337, Aug. 4; Serial No. 638,224, published May 24, 1953.
Fabrics, Woven corrugated textile. United States Rubber Company. 578,260, Aug. 4; Serial No. 631,134, published May 5, 1953.



Laminated cloth and foil material. C. P. Frominelt. 578,187, Aug. 4; Serial No. 615,891, published May 5, 1953.
Piece goods. Elder Manufacturing Company. 578,341, Aug. 4; Serial No. 638,354, published May 12, 1953.
Piece goods, Goodall-Sanford, Inc. 578,194, Aug. 4; Serial No. 617,990, published May 12, 1953.
Piece goods, Woolen. Forstmann Woolen Co. 303,093, renewed June 6, 1953. O. G. Aug. 4.
Piece goods, Woolen. Forstmann Woolen Co. 303,781, renewed June 6, 1953. O. G. Aug. 4.
Piece goods, Woolen. Forstmann Woolen Co. 303,784, renewed June 6, 1953. O. G. Aug. 4.
Piece goods, Woolen. Forstmann Woolen Co. 303,786, renewed June 6, 1953. O. G. Aug. 4.
Piece goods, Woolen. Forstmann Woolen Co. 303,790–3, renewed June 6, 1953. O. G. Aug. 4.
Quilted innerlinings. Boston Quilting Corp. 578,165, Aug. 4; Serial No. 301,883, published May 5, 1953.
Rugs, carpets, and carpeting, Textile. Miller and Rhoads, Incorporated. 578,210, Aug. 4; Serial No. 623,118, published May 12, 1953.
Rugs, Kerman. R. C. Walker. 578,299, Aug. 4; Serial No. 635,074, published May 12, 1953.
Towels. Louis H. Greenberg Company. 578,205, Aug. 4; Serial No. 622,651, published May 12, 1953.

CLASS 44

Dental supplies. Premier Dental Products Company. 578,207, Aug. 4; Serial No. 622,846, published May 12, 1953.
Hearing aids and parts thereof. Sonotone Corporation. 578,219, Aug. 4; Serial No. 624,865, published Apr. 28, 1953.
Medical and surgical supplies. Robert Reid, Inc. 578,203, Aug. 4; Serial No. 622,409, published May 12, 1953.
Prosthetic devices. E. H. Bernhardt. 578,154, Aug. 4; Serial No. 592,187, published May 12, 1953.

CLASS 46

Canned food. The Foster Canning Co., Inc. 331,427, Jan. 7, 1936. Republished Aug. 4.
Canned food. Foster Canning Co., Inc. 339,034, Oct. 27, 1936. Republished Aug. 4.
Canned food products. Briardale Co. 578,142, Aug. 4; Serial No. 540,353, published Jan. 27, 1953.
Canned fruits. Leadway Stores Corporation. 301,329, Feb. 28, 1933. Republished Aug. 4.
Canned tomato paste. Turlock Co-Operative Growers. 578,350, Aug. 4; Serial No. 640,656, published May 12, 1953.
Canned, unbaked biscuits. The Borden Company. 578,313, Aug. 4; Serial No. 636,510, published Apr. 7, 1953.
Canned vegetables, canned fruits, canned hominy, etc. Gibbs & Company, Incorporated. 305,918, Aug. 29, 1933. Republished Aug. 4.
Coffee. Aroma Coffee Company. 578,357, Aug. 4; Serial No. 557,102.
Cream, Fluid whipping, fluid coffee cream, fluid buttermilk, etc. Co-operative Dairies, Inc. 578,171, Aug. 4; Serial No. 609,785, published Apr. 1, 1952.
Fruit jelly, calf's-foot jelly, bar-le-duc jelly, etc. Meyer & Lange. 93,739, re-renewed Oct. 14, 1953. O. G. Aug. 4.
Fruits, Fresh citrus. Winter Haven Fruit Sales Corporation. 305,675, renewed Aug. 22, 1953. O. G. Aug. 4.
Grapes, Fresh, fresh deciduous fruits, and fresh vegetables. Pacific Fruit Exchange. 578,140, Aug. 4; Serial No. 538,311, published May 12, 1953.
Ice cream cones. S. & S. Cone Corporation. 301,170, Feb. 21, 1933. Republished Aug. 4.
Ice cream confection. Wm. M. Reil Company. 301,250, renewed Feb. 21, 1953. O. G. Aug. 4.
Lollipops. Gilt Edge Candy Co. 203,637, Sept. 22, 1925. Republished Aug. 4.
Oranges. S. Albertson Company, Inc. 307,551, renewed Oct. 31, 1953. O. G. Aug. 4.
Packing house products—namely, hams and bacon and sausage. The E. M. Todd Company, Incorporated. 301,810, renewed Mar. 14, 1953. O. G. Aug. 4.
Paprika, onions, mushrooms, peas, etc. Meyer & Lange. 93,885, re-renewed Oct. 21, 1953. O. G. Aug. 4.
Prunes, raisins, dried fruits, honey and evaporated apples. Rosenberg Bros. & Co. 306,002, renewed Aug. 29, 1953 O. G. Aug. 4.
Raisins. Rosenberg Bros. & Co. 92,581, re-renewed July 15, 1953. O. G. Aug. 4.
Salt composition. The Griffith Laboratories, Inc. 578,326, Aug. 4; Serial No. 637,655, published Apr. 7, 1953.
Salt composition. The Griffith Laboratories, Inc. 578,342, Aug. 4; Serial No. 638,416, published Mar. 17, 1953.
Sandwiches. G. M. Jorgensen. 578,362, Aug. 4; Serial No. 643,714.
Seasonings for meat products. A. J. Gerst. 578,273, Aug. 4; Serial No. 632,724, published May 12, 1953.
Spices, dietetical patent foods, malt food starches, and sauces and feeding preparations, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,136, renewed Feb. 21, 1953. O. G. Aug. 4.
Vanilla food flavoring extract. Joseph Burnett Co. 304,729, renewed July 18, 1953. O. G. Aug. 4.
Whey, Dried. Western Condensing Company. 578,375, Aug. 4; Serial No. 635,616.

CLASS 47

Wine, Sherry. John Harvey & Sons, Limited. 306,426, renewed Sept. 19, 1953. O. G. Aug. 4.

CLASS 48

Malt beverage. Anheuser-Busch, Inc. 306,930, renewed Oct. 3, 1953. O. G. Aug. 4.
Malt beverages. Peter Hand Company. 306,427, renewed Sept. 19, 1953. O. G. Aug. 4.

CLASS 49

Whisky. Slater, Rodger & Company, Limited. 303,257, May 16, 1933. Republished Aug. 4.

CLASS 50

Cork disks and washers. New Process Cork Company. 92,905, Aug. 5, 1913. Republished Aug. 4.
Figurines and miniatures, Ornamental glass. Corning Glass Works. 578,179, Aug. 4; Serial No. 613,768, published Aug. 26, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)
Figurines and miniatures, Ornamental glass. Corning Glass Works. 578,183, Aug. 4; Serial No. 614,872, published Aug. 26, 1952. (Consolidated certificate, Classes 8, 32, 33, 34, 37, and 50.)

CLASS 51

Cleansing cream, cold cream and tissue builder cream, etc. R. A. Baker. 303,092, renewed May 9, 1953. O. G. Aug. 4.
Cold cream, hand lotion, eye drops, etc. Cole Chemical Company. 578,295, Aug. 4; Serial No. 634,935, published Apr. 7, 1953.
Deodorant. Jules Montenier, Inc. 578,233, Aug. 4; Serial No. 627,144, published May 12, 1953.
Face and massage creams. F. N. Lewis. 117,888, Aug. 7, 1917. Republished Aug. 4.
Hair dressing and hair lotion. J. Strickland & Co. 578,288, Aug. 4; Serial No. 634,167, published May 12, 1953.
Hair setting preparations. Winco Associates, Inc. 578,218, Aug. 4; Serial No. 624,435, published May 12, 1953.
Hair tonic. R. B. Semler, Inc. 578,220, Aug. 4; Serial No. 624,975, published Apr. 7, 1953.
Hair tonic, hair dress with oil, bay rum compound, etc. Associated Brands, Inc. 578,223, Aug. 4; Serial No. 625,449, published May 12, 1953.
Lotion, Cosmetic. Lentheric, Incorporated. 578,234, Aug. 4; Serial No. 627,516, published Apr. 14, 1953.
Lotion, Hair. Quality Chemists, Inc. 578,208, Aug. 4; Serial No. 623,078, published Apr. 7, 1953.
Lotion, Hand. Athea Laboratories, Incorporated. 578,281, Aug. 4; Serial No. 633,442, published May 12, 1953.
Lotion, Permanent wave. Eve Beauty Products Co. 578,206, Aug. 4; Serial No. 622,709, published Apr. 7, 1953.
Lotion, Skin. Puerto Rico Distilling Company. 578,180, Aug. 4; Serial No. 614,313, published May 5, 1953.
Make-up preparation, Liquid face. Revlon Products Corporation. 578,269, Aug. 4; Serial No. 632,268, published May 12, 1953.
Odoriferous material suitable for use in perfumes and cosmetics, Liquid. Givaudan-Delawanna, Inc. 578,149, Aug. 4; Serial No. 581,418, published Apr. 7, 1953.
Perfume, cologne, hand cream, etc. Rolley, Inc. 578,257–8, Aug. 4; Serial Nos. 630,954–5, published May 12, 1953.
Perfume, cologne, hand cream, etc. Rolley, Inc. 578,259, Aug. 4; Serial No. 630,960, published May 5, 1953.
Perfumes and perfumery. Elizabeth Arden Inc. 302,456, Apr. 18, 1933. Republished Aug. 4.
Perfumes and perfumery, cleansing cream, face and hand lotion, etc. Elizabeth Arden Inc. 302,900, May 2, 1933. Republished Aug. 4.
Toothpaste. Pepsodent Limited. 578,282, Aug. 4; Serial No. 633,627, published May 12, 1953.
Tooth powder. C. L. Bryant. 578,253, Aug. 4; Serial No. 630,114, published May 12, 1953.
Topical liquid preparation for treatment of dandruff. M. D. Myers. 578,169, Aug. 4; Serial No. 608,844, published May 5, 1953.

CLASS 52

Cleaning compound. Wade, Wenger & Associates, Inc. 578,243, Aug. 4; Serial No. 628,795, published May 12, 1953.
Paint remover and brush softener. F. M. Roth. 578,274, Aug. 4; Serial No. 632,745, published May 12, 1953.
Preparation for cleaning glass, porcelain, etc. C. M. Kimball Co. 578,139, Aug. 4; Serial No. 536,403, published May 12, 1953.
Scouring compound. A. R. Earnshaw. 306,560, renewed Sept. 26, 1953. O. G. Aug. 4.
Soap. Colgate-Palmolive-Peet Company. 307,510, renewed Oct. 24, 1953. O. G. Aug. 4.

Soap, Powdered laundry. Mt. Hood Soap Company. 578,307, Aug. 4; Serial No. 635,547, published May 12, 1953.

CLASS 100

Consulting services to manufacturers. R. E. Burt. 578,353, Aug. 4; Serial No. 624,813, published May 5, 1953.

CLASS 101

Advertising the goods and services of others. The Fort Industry Company. 578,354, Aug. 4; Serial No. 625,471, published May 5, 1953.

Various services performed for clients. V. I. P. Service, Inc. 578,355, Aug. 4; Serial No. 629,638, published May 12, 1953.

CLASS 102

Underwriting of life insurance combined with polio insurance for its members. Modern Woodmen of America. 578,352, Aug. 4; Serial No. 612,465, published May 5, 1953.

CLASS 103

Laundry service. M. P. Wohltman. 578,379, Aug. 4; Serial No. 613,354.

CLASS 105

Airplane passenger and freight transportation. Aerovias Brasil. 578,380, Aug. 4; Serial No. 610,054.

CLASS 107

Entertainment service. M. Wulff. 578,381, Aug. 4; Serial No. 637,632.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 4TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bergvall, Knut L., and E. E. Dahlberg, Stockholm, Sweden. Box beam construction for floors. Re. 23,693, Aug. 4.

Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Stauffer, William R.

Dahlberg, Ernst E.: *See*—
Bergvall, Knut L., and Dahlberg.

Ehmann, Leslie G., assignor to Hyster Company, Portland, Oreg. Material handling device for industrial trucks. Re. 23,694, Aug. 4.

Hyster Company, assignee: *See*—
Ehmann, Leslie G.

Randol, Glenn T., Mountain Lake Park, Md. Automotive power-transmitting system and mechanism. Re. 23,695, Aug. 4.

Randol, Glenn T., Mountain Lake Park, Md. Automotive power drive control system and mechanism. Re. 23,696, Aug. 4.

Stauffer, William R., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Sponge rubber composition. Re. 23,697, Aug. 4.

Vickers, Harry F., assignor to Vickers Incorporated, Detroit, Mich. Mechanical clutch follow-up device. Re. 23,692, Aug. 4.

Vickers Incorporated, assignee: *See*—
Vickers, Harry F.

# LIST OF PLANT PATENTEES

Gillespie, Herbert L., San Gabriel, Calif. Avocado tree. 1,208, Aug. 4.

Hemet Wholesale Nursery, assignee: *See*—
Lindquist, Robert V.

Lindquist, Robert V., assignor to Hemet Wholesale Nursery, Hemet, Calif. Rose plant. 1,209, Aug. 4.

# LIST OF DESIGN PATENTEES

Allen, Harold D., East Hampton, Conn. Wheeled toy. 170,106, Aug. 4.

Avco Manufacturing Corporation, assignee: *See*—
Gustafson, Foike M.

Baroumes, Nina, Juneau, Alaska. Sandal. 170,107, Aug. 4.

Batten, Charlie A., College Park, Md. Hobbyhorse. 170,108, Aug. 4.

Bigsby, Paul A., Downey, Calif. Tailpiece vibrato for string instrument. 170,109, Aug. 4.

Cantrall, Forrest L., Benecia, Calif. Headstone. 170,110, Aug. 4.

Cheneweth, James E., National City, Calif. Receptacle. 170,111, Aug. 4.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,112, Aug. 4.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Coro, Inc., assignee: *See*—
Katz, Adolph.

De Sibrik, George and I., Washington, D. C. Puzzle. 170,113, Aug. 4.

De Sibrik, Ilana: *See*—
De Sibrik, George and I.

Dieterich, Richard E., Long Beach, Ind. Hubcap. 170,114, Aug. 4.

Essary, Nettie M., Big Spring, Tex. Bicycle. 170,115, Aug. 4.

Gilliam, Hinch G., Kingsport, Tenn. Spoke and hub cover for automobile steering wheels. 170,116, Aug. 4.

Gustafson, Foike M., Toledo, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Electric range. 170,117, Aug. 4.

Hardy, William H., River Edge, N. J. Handbag. 170,118, Aug. 4.

Hull, William D., Chicago, Ill. Combination screw driver and reamer. 170,119, Aug. 4.

Isserstedt, Siegfried G., Toronto, Ontario, Canada. Cribbage board. 170,120, Aug. 4.

Jackson, Harlan C., New York, N. Y. Chair. 170,121, Aug. 4.

Jörgensen, Poul F. W., Esbjerg, Denmark. Convertible ottoman or similar article. 170,122, Aug. 4.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,123, Aug. 4.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,124, Aug. 4.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 170,125, Aug. 4.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,126, Aug. 4.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,127, Aug. 4.

Knapp-Monarch Company, assignee: *See*—
Moore, Walter E.

Levy, Filmore C., Altadena, Calif. Combination lamp and planter or similar article. 170,128, Aug. 4.

Lim, Peter, Los Angeles, Calif. Combined extinguishant tank and heat collector for portable fire extinguishers. 170,129, Aug. 4.

Moore, Walter E., Belnor, assignor to Knapp-Monarch Company, St. Louis, Mo. Food mixer or similar article. 170,130, Aug. 4.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,131, Aug. 4.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,132, Aug. 4.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,133, Aug. 4.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,134, Aug. 4.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,135, Aug. 4.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,136, Aug. 4.

Rogers, Phyllis M., Port Credit, Ontario, Canada. Hand cart. 170,137, Aug. 4.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Wastebasket or similar article. 170,138, Aug. 4.

Ross, Alexander, Flushing, N. Y. Purse light. 170,139, Aug. 4.

Stiffel Company, The, assignee: *See*—
Cole, Edwin I.

Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 4TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, George G.: *See*—
Swerdlow, Nathan, and Abel.

Adams, Cecil E., assignor to The Denison Engineering Company, Columbus, Ohio. Hydraulic apparatus. 2,647,455, Aug. 4.

Adams, Johnny L., Independence, Mo. Power-operated push rake. 2,647,356, Aug. 4.

Aeschlimann, John A., Montclair, N. J., and A. Stempel, Brooklyn, N. Y., assignors to Hoffmann-La Roche Inc., Nutley, N. J. 3-hydroxyphenyl quaternary ammonium compounds. 2,647,924, Aug. 4.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Stafford, Harry L.

Aguie, George J., Stamford, assignor to Machlett Laboratories, Incorporated, Springdale, Conn. Electron discharge device. 2,648,025, Aug. 4.

Aircraft-Marine Products, Inc., assignee: *See*—
Berg, Quentin.

Ajax Manufacturing Company, The, assignee: *See*—
Criley, William W.

Aktiebolaget Addo, assignee: *See*—
Ohlsson, Sven O.

Alimanestiano, Mihai, Beaumont, assignor of fifty per cent to C. Kroll, Houston, Tex. Apparatus for parking automobiles. 2,647,647, Aug. 4.

All American Engineering Company, assignee: *See*—
Doolittle, Donald B., and Walden.

Allan, William G., Ardrossan, and T. J. Tobin, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of an alkyl nitrate. 2,647,914, Aug. 4.

Allen-Bradley Company, assignee: *See*—
Hudson, William J.

Allen, Louis N., Jr., Short Hills, N. J., P. J. McGauley, Glen Cove, and E. S. Roberts, assignors to Chemical Construction Corporation, New York, N. Y. Preparation of pure copper metal from copper-bearing scrap. 2,647,830, Aug. 4.

Allen, Louis N., Jr., Short Hills, N. J., P. J. McGauley, Glen Cove, and E. S. Roberts, assignors to Chemical Construction Corporation, New York, N. Y. Preparation of pure copper metal from non-ferrous metal-bearing scrap. 2,647,831, Aug. 4.

Allen, Louis N., Jr., Short Hills, N. J., P. J. McGauley, Glen Cove, and E. S. Roberts, assignors to Chemical Construction Corporation, New York, N. Y. Preparation of pure copper metal from copper-bearing scrap. 2,647,832, Aug. 4.

Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Pneumatic gauging device. 2,647,396, Aug. 4.

Aller, Willis F., and A. J. Page, assignors to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,647,456, Aug. 4.

Aller, Willis F., and A. J. Page, assignors to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,647,627, Aug. 4.

Allersma, Barteld P., Den Andel, Netherlands. Distributing device for powdered or granular material. 2,647,756, Aug. 4.

Allied Chemical & Dye Corporation, assignee: *See*—
Freeman, Benjamin A.
Gilbert, Everett E., and Giolito.

American Cyanamid Company, assignee: *See*—
Crossley, Moses L., and Dreisbach.
Kaiser, Donald W.
Wystrach, Vernon P.

American Instrument Company, Inc., assignee: *See*—
Shapiro, Justin J.

American Manufacturing Company, Inc., assignee: *See*—
Pierce, Alfred F.

American Optical Company, assignee: *See*—
Ellis, Charles A.
Robinson, James E.

American Seal-Kap Corporation of Delaware, assignee: *See*—
Galik, Jess G.

American Steel Foundries, assignee: *See*—
Weisberger, Arthur A., and Helton.

American Viscose Corporation, assignee: *See*—
Battista, Orlando A.
Furness, William H.
Gilmore, Charles G.
Woolley, Edward L.

Anderson, Austin E., Jamestown, N. Y. Valved pipe coupling for suction lines. 2,647,767, Aug. 4.

Anderson, Carl A., Jr., St. Joseph, Mich. Hydraulic elevator. 2,647,590, Aug. 4.

Anderson, J. M., trustee, assignee: *See*—
Bernett, Willis J.

Anderson, Lawrence C.: *See*—
Kasten, Walter, and Anderson.

Anderson, Paul V., Gardner, Mass. Stabilizing wheel attachment for bicycles. 2,647,764, Aug. 4.

Anderson, Walter A., Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y. Overload release device. 2,647,600, Aug. 4.

Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Multizero indexing device for adding machines. 2,647,690, Aug. 4.

Anderson, Walter A., Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y. Skip tabulating mechanism for accounting machines. 2,647,691, Aug. 4.

Andersson, Jonas L., Hudiksvall, Sweden. Sign. 2,647,335, Aug. 4.

André, Noble, San Francisco, Calif. Flap folding means. 2,647,447, Aug. 4.

Appleton Wire Works, Inc., assignee: *See*—
Purdy, Bruce B.

Archer, Sydney, Albany, assignor to Sterling Drug Inc., New York, N. Y. 1-(tertiary-aminoalkylamino) acridones and their preparation. 2,647,901, Aug. 4.

Archer, Sydney, and R. K. Bair, Albany, assignors to Sterling Drug Inc., New York, N. Y. Organic antimony derivatives of polyhydroxy alkanoic or alkanediolic acids and their preparation. 2,647,910, Aug. 4.

Arden, Thomas R., assignor to Hard-Parker Company, Inc., Danbury, Conn. Detachable blade pocketknife. 2,647,311, Aug. 4.

Arena, Joseph P., Astoria, N. Y. Metering liquid dispenser and recorder. 2,647,660, Aug. 4.

Ark-Les Switch Corporation, assignee: *See*—
Batcheller, Hugh W.

Armour and Company, assignee: *See*—
Holmes, Alan D.

Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.

Armstrong Cork Company, assignee: *See*—
Sharf, John M.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Bordr, Frederick J., and Shine.
Dietrich, Albert.
Rabinow, Jacob.

Arnold, Wendelin P., Lethbridge, Alberta, Canada. Knife sharpener. 2,647,351, Aug. 4.

Arrow-Hart & Hegeman Electric Company, The, assignee: *See*—
Schletcher, Harold E.

Arthur, Milan G., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Measurement of injection profiles. 2,648,014, Aug. 4.

Arvin Industries, Inc., assignee: *See*—
Ludlow, Edmund.

Aschner, Thomas C., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Preparation of tetrahydroisoquinolone derivatives. 2,647,902, Aug. 4.

Athey Products Corporation, assignee: *See*—
Kling, Robert W.

Auffero, John M., Piandome, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Automobile heater. 2,647,451, Aug. 4.

Auto-Soler Company, The, assignee: *See*—
Wright, John G., Toney, Watkins, Sudan, and Maxwell.

Avery, Robert D.: *See*—
Norris, Ralph F., and Avery.

Babcock & Wilcox Company, The, assignee: *See*—
Moore, William T.

Bagno, Samuel, Astoria, N. Y. Method and apparatus for washing articles by supersonic vibration in a flowing liquid. 2,647,846, Aug. 4.

Bahm, William J.: *See*—
Hilpman, Paul, and Bahm.

Bair, Robert K.: *See*—
Archer, Sydney, and Bair.
Surrey, Alexander R., and Bair.

Baird, John B.: *See*—
Schilling, Paul A., Mairs, and Baird.

Baker, Allister L.: *See*—
Kenffel, Carl W., and Baker.





Baker, Hayward R.: *See*—
Zisman, William A., and Baker.

Baker, John R., Pasadena, and M. B. Conrad, Huntington Park, assignors to Baker Oil Tools, Inc., Vernon, Calif. Well packer and bridge plug for well bores. 2,647,584, Aug. 4.

Baker Oil Tools, Inc., assignee: *See*—
Baker, John R., and Conrad.
Kriegel, Bernard.

Balaban, Victor, & Textile Belting Co., assignee: *See*—
Grieshammer, Herman H. O.

Ballard, Edward D., Fort Lauderdale, Fla. Nozzle assembly for fire-fighting equipment. 2,647,798, Aug. 4.

Ballman, Edwin C., University City, assignor to Ballman Engineering Company, St. Louis, Mo. Brush holder. 2,648,023, Aug. 4.

Ballman Engineering Company, assignee: *See*—
Ballman, Edwin C.

Balzeau, Charles A., Vauceresson, France. Mechanism for automatic annual date indicator. 2,647,359, Aug. 4.

Barach, Edmund, Ridgefield, Conn., assignor to O. E. M. Corporation. Oxygen mask. 2,647,511, Aug. 4.

Barber-Colman Company, assignee: *See*—
Schneider, Elmer.

Bard-Parker Company, Inc., assignee: *See*—
Arden, Thomas R.

Barényi, Béla, Stuttgart-Rohr, Germany. Seating arrangement for vehicles. 2,647,791, Aug. 4.

Barker, John W., Silver Spring, Md., assignor to Houdry Process Corporation, Philadelphia, Pa. Process and apparatus for the disengagement of gases from fluent solid particles in the conversion of hydrocarbons. 2,647,859, Aug. 4.

Barker, Leonard M., North Syracuse, N. Y., assignor to General Electric Company. Drive mechanism. 2,647,752, Aug. 4.

Barnett, Benjamin G., assignee: *See*—
Barton, William A.

Barney, Harold L., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage and current bias of transistors. 2,647,958, Aug. 4.

Baron, Leonard: *See*—
Rabkin, William, and Baron.

Barrett, William K.: *See*—
Matson, William U., and Barrett.

Barringer, Lou H., Jr., Charleston, W. Va. Dart game. 2,647,748, Aug. 4.

Barry, Arthur J., and J. W. Gilkey, assignors to The Dow Chemical Company, Midland, Mich. Production of dimethyl silicon dichloride. 2,647,912, Aug. 4.

Barton, William A., Arlington, assignor to B. G. Barnett, Dallas, Tex. Oil cleaner for internal-combustion engines. 2,647,634, Aug. 4.

Bassindale, Isaac B., assignor to Platt Brothers and Company Limited, Oldham, England. Loom for weaving tufted pile fabrics. 2,647,543, Aug. 4.

Bassindale, Isaac B., assignor to Platt Brothers and Company Limited, Oldham, England. Loom for weaving tufted pile fabrics. 2,647,544, Aug. 4.

Batcheller, Hugh W., Newton, assignor to Ark-Les Switch Corporation, Watertown, Mass. Switch for electric ranges. 2,647,962, Aug. 4.

Battelle Development Corporation, assignee: *See*—
Ebert, James P.

Battista, Orlando A., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Crackled fibrous product of the nonwoven fabric type and making it. 2,647,297, Aug. 4.

Battista, Orlando A., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Making a wound package and after-treating the same. 2,647,816, Aug. 4.

Battle, Michael A.: *See*—
Battle, William F. and M. A.

Battle, William F. and M. A., Lisbon, Ohio. Electrically operated musical instrument. 2,647,426, Aug. 4.

Baumann, Gottlieb W., Fort Madison, assignor to C. L. Evans, Oskaloosa, Iowa. Ignition lock for engines. 2,647,937, Aug. 4.

Baumrucker, William, Jr.: *See*—
Richardson, Henry M., and Baumrucker.

Bausano, Battista G., Detroit, Mich. Bottle-corking machine. 2,647,674, Aug. 4.

Beaver, David J., Richmond Heights, assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanizing rubber and products thereof. 2,647,935, Aug. 4.

Bell & Howell Company, assignee: *See*—
Townsley, Malcolm G.

Bell, Noel G., South Kensington, London, England. Pile driving hammer. 2,647,373, Aug. 4.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Barney, Harold L.
Mallinckrodt, Charles O.

Bellamy, John L.: *See*—
Saunders, Norman H., Hackett, and Bellamy.

Bemmels, Cyrus W., New Brunswick, N. J., assignor to Permacel Tape Corporation. Adhesive tape. 2,647,843, Aug. 4.

Bendix Aviation Corporation, assignee: *See*—
Ferman, Saul M.
Greenfield, Alexander.
Greenfield, Alexander, and Clayton.
Jaquith, John S.
Kasten, Walter, and Anderson.
Perkins, Cories M.
Teagne, Walter D., Jr.
Troeger, Henry, and Goldberg.

Benjamin, David, assignor to Benjamin Reel Products Inc., Cleveland, Ohio. Weatherproof reel for electric cords or the like. 2,647,960, Aug. 4.

Benjamin Reel Products Inc., assignee: *See*—
Benjamin, David.

Bentley, George P., Garden City, and F. House, Baldwin, assignors to Instrument Development Laboratories, Inc., Williston Park, N. Y. Picture unit for stereopticons. 2,647,437, Aug. 4.

Bentley-Harris Manufacturing Company, assignee: *See*—
Shive, Howard J.

Berck, William F., Hayward, assignor to Ralph N. Brodie Company, Oakland, Calif. Flow control valve. 2,647,531, Aug. 4.

Berck, William F., Hayward, assignor to Ralph N. Brodie Company, Oakland, Calif. Manifold with manually actuated valves for controlling fluid flow. 2,647,659, Aug. 4.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Apparatus for solids flow control. 2,647,587, Aug. 4.

Berg, Quentin, New Cumberland, Pa. Electrical connector having insulating piercing barbs. 2,648,050, Aug. 4.

Berg, Quentin, New Cumberland, assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa. Electrical connector of the eyelet type. 2,648,054, Aug. 4.

Bergstrom, Eric V., Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Catalyst level indicator. 2,647,405, Aug. 4.

Berner, Carl H., assignor to Chrysler Corporation, Highland Park, Mich. Fluid seal. 2,647,773, Aug. 4.

Bernett, Willis J., assignor to S. A. Galatas, R. L. Mattox, F. W. Fisher, and W. J. Bernett, Kansas City, Mo., and J. M. Anderson, Kansas City, Kans., trustees. Fire rescue apparatus. 2,647,075, Aug. 4.

Beryllium Corporation, The, assignee: *See*—
Kawecki, Henry C.

Best, Richard L., Wayland, Mass., assignor to Research Corporation, New York, N. Y. Bistable circuits. 2,647,999, Aug. 4.

Beymer, Oren O., assignor to Irrigation Equipment Co., Inc., Eugene, Oreg. Drain ping for pipe lines. 2,647,533, Aug. 4.

Biesel, Berthold, assignee: *See*—
Sievern, Frederick, and Fox.

Bilbrey, Charles R., Chicago, Ill. Pen or pencil holder. 2,647,517, Aug. 4.

Biller, David J., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Illumination-fixture and louvers therefor. 2,647,985, Aug. 4.

Billica, Harry R., Seaford, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of polyethylene terephthalate using antimony trioxide as polymerization catalyst. 2,647,885, Aug. 4.

Biscoe, Percival H., and W. T. Slater, Jacksonville, Fla. Venetian blind. 2,647,572, Aug. 4.

Bishop, Alfred E., Dayton, Ohio, assignor to Superior Sugar Refining Company, Menominee, Mich. Extraction of pectin from sugar beet waters. 2,647,890, Aug. 4.

Bishop, William J., and G. C. Dibble, Logansport, Ind. Collapsible bleacher type back rest. 2,647,563, Aug. 4.

Bituminous Coal Research, Inc., assignee: *See*—
Miller, Carl E.

Black, Millard S., Huntington Park, and A. G. Satterla, Jr., Whittier, assignors to Fluid Packed Pump Company, Los Nietos, Calif. Interfitting machined parts. 2,647,847, Aug. 4.

Blackman, Edward L., New York, N. Y. Automobile door construction. 2,647,790, Aug. 4.

Blanchette, Frank W., Montclair, N. J. Gauging apparatus for grinding machines and the like. 2,647,347, Aug. 4.

Blazek, John Y., Maple Heights, assignor to Lempco Products, Inc., Bedford, Ohio. Abrasive belt tool. 2,647,350, Aug. 4.

Blinka, Joseph, Wyoming, and H. J. Peddicord, Deer Park, assignors to The Proctor & Gamble Company, Ivorydale, Ohio. Reduction of fatty esters. 2,647,932, Aug. 4.

Block, Sven H., and E. Gylling, Skodsborg, Denmark, said Bloch assignor to said Gylling. Tachistoscopic device. 2,647,329, Aug. 4.

Blumberg, Hamilton, G.: *See*—
Turner, Archibald P., and Blumberg.

Boeing Airplane Company, assignee: *See*—
Mathison, Theodore M.

Bogad, Sidney, assignee: *See*—
Rassaner, Henry.

Bohm, William O., assignor to E. E. Thomas, Detroit, Mich. Sawhorse connector bracket. 2,647,803, Aug. 4.

Bolelli, Aldo, Bologna, Italy. Centrifugal method for the wet spinning of natural fibers and apparatus for carrying out this method. 2,647,358, Aug. 4.

Boot, Henry A. H.: *See*—
Randall, John T., and Boot.

Borden, Leland A., Riverside, and J. C. Powelson, Cucamonga, Calif. Leadin bushing. 2,647,942, Aug. 4.

Bordt, Frederick J., Averill Park, N. Y., and A. J. Shine, Xenia, Ohio, assignors to the United States of America as represented by the Secretary of the Army. Thermoelectric space heater. 2,647,505, Aug. 4.

Borngesser, Otto J., Baltimore, Md., R. B. Bradshaw, Philadelphia, and C. C. Smith, Warrington, Pa., assignors to Kaiser Metal Products, Inc. Dishwashing apparatus. 2,647,528, Aug. 4.

Bowden, Dexter T., Marblehead, Mass. Container blank to form into various containers. 2,647,621, Aug. 4.

Bowyer, Aldred W., and J. R. Cartwright, Letchworth, assignors to British Tabulating Machine Company Limited, London, England. Decimal to binary conversion machine. 2,647,689, Aug. 4.

Boyd, Bruce, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Power regulation in high-frequency heating apparatus. 2,647,983, Aug. 4.

Boydston, Raymond W., and A. J. Eshner, Philadelphia, Pa. Front surface mirror improved by transparent protective overcoating. 2,647,441, Aug. 4.

Bradshaw, Richard R.: *See*—
Borngesser, Otto J., Bradshaw, and Smith.

Bradshaw, Stanley E.: *See*—
Evans, Edward M., Bradshaw, and Whitney.

Brandell, Elmer, assignee: *See*—
Neal, Ernest C.

Braum, Adolph F., Davison, assignor to General Motors Corporation, Detroit, Mich. Compound carburetion system. 2,647,502, Aug. 4.

Brayman, George D., Ashtabula, Ohio, and E. K. Lotthammer, Jamaica, N. Y., said Lotthammer assignor to said Brayman. Electric lamp socket. 2,648,040, Aug. 4.

Brechner, Hyman, Tuckahoe, N. Y. Holder for assembled sheets. 2,647,765, Aug. 4.

Breedlove, Harry B., Baton Rouge, La., assignor to Standard Oil Development Company. Liquid level indicating device. 2,648,058, Aug. 4.

Breeze Corporations, Inc., assignee: *See*—
Sprigg, Edward A.

Brewer, Homer L.: *See*—
Launius, Carl E., and Brewer.

Brinkmann To Broxten, Rudolf, Frankfurt am Main, Germany. Selector device for card indexes. 2,647,519, Aug. 4.

Bristol Laboratories Inc., assignee: *See*—
Speeter, Merrill E.

British Celanese Limited, assignee: *See*—
Taylor, William I., and Hawtin.

British Resin Products Limited, assignee: *See*—
Evans, Edward M., and Whitney.
Evans, Edward M., Bradshaw, and Whitney.

British Tabulating Machine Company Limited, assignee: *See*—
Bowyer, Aldred W., and Cartwright.

Brodie, Ralph N., Company, assignee: *See*—
Berck, William F.

Brown, Cicero C., and E. L. Potts, Houston, Tex., said Potts assignor to said Brown. Apparatus for cementing wells. 2,647,582, Aug. 4.

Brown, Henry, assignor to The Udylite Corporation, Detroit, Mich. Electroplating of nickel. 2,647,866, Aug. 4.

Brown, Kenneth E.: *See*—
Brown, Russell G., and K. E.

Brown, Russell G., and K. E. Brown, Montague, Mich. Gon carrier. 2,647,667, Aug. 4.

Brugger, Ervin A., Newton, Iowa, assignor to Koehring Company, Milwaukee, Wis. Combination crane and bulldozer. 2,647,331, Aug. 4.

Brunand, André, Lyon, assignor to Societe Anonyme styled: Compagnie Electro-Mecanique, Paris, France. Stator winding machine. 2,647,696, Aug. 4.

Brunstrum, Lawrence C., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Nonfretting antifriction bearing. 2,647,807, Aug. 4.

Buc, Saul R., and S. A. Glickman, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Alkyl diformyl phenylenediamines. 2,647,815, Aug. 4.

Buc, Saul R., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Tetracyano and tetrncarboxy phthalocyanines. 2,647,908, Aug. 4.

Buchanan, David L.: *See*—
Dean, Walter B., and Buchanan.

Budd Company, The, assignee: *See*—
Dean, Walter B., and Buchanan.

Budzyna, Walter J., East Douglas, Mass., and M. R. Flamand, Central Falls, R. I., assignors to Draper Corporation, Hopedale, Mass. Stop motion for looms. 2,647,545, Aug. 4.

Burke, James A., assignee: *See*—
Gibbons, Melvin W.

Burnam, Thompson W., Long Beach, Calif., and G. D. Ramsay, Dallas, Tex. Fire extinguishing nozzle and distributor head. 2,647,800, Aug. 4.

Burnell, Milo, assignor to Crown Cork Specialty Corporation, Decatur, Ill. Cap applying apparatus. 2,647,672, Aug. 4.

Burns, Leslie L., Jr.: *See*—
Roberts, Walter van B., and Burns.

Burns, Leslie L., Jr., Princeton, N. J., assignor to Radio Corporation of America. Adjustable tuning for mechanical resonators. 2,647,949, Aug. 4.

Burton, Charles D., Glenside, assignor to Rohm & Haas Company, Philadelphia, Pa. Preparing esters of alpha, beta-dichloropropionic acid. 2,647,923, Aug. 4.

Busch, Richard E.: *See*—
Parsons, Wharton A., and Busch.

Bush, Harleigh L., El Centro, Calif. Continuous grip transmission line apparatus. 2,647,699, Aug. 4.

Butler, William, Pittsburgh, Pa. Dishwashing machine. 2,647,527, Aug. 4.

Byam, Peter M., assignor to Fasco Industries, Inc., Rochester, N. Y. Electric switch assembly. 2,647,968, Aug. 4.

Cahill, Lysle D.: *See*—
Jack, William R., and Cahill.

Campbell, Robert C., assignor of one-third to E. P. Levine, Portsmouth, Va. Bobbin signal. 2,647,482, Aug. 4.

Cannras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Twisted loop magnetic recorder. 2,647,750, Aug. 4.

Candor, Robert R., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,647,385, Aug. 4.

Cannard, William H., Attleboro, Mass. Expansible core chuck. 2,647,701, Aug. 4.

Cannon, William J., Covington, Ga. Clothespin holder. 2,647,550, Aug. 4.

Cappel, Klaus L., San Francisco, Calif. Boat davit. 2,647,269, Aug. 4.

Carlsson, Filip R., Eskilstuna, Sweden. Refrigerator with defrosting arrangement. 2,647,376, Aug. 4.

Carmichael, William, Knightsville, Ind. Centrifugal clutch with quick actuator. 2,647,604, Aug. 4.

Carney, Thomas P., assignor to Eli Lilly and Company, Indianapolis, Ind. Substituted benzoic acid esters and their preparation. 2,647,903, Aug. 4.

Carpenter, Lee R., Cleveland, Ohio. Two-cycle internal-combustion engine having special cooling means therein. 2,647,496, Aug. 4.

Cartter, William G., and J. R. Ewell, assignors to Day & Night Manufacturing Company, Monrovia, Calif. Apparatus for providing gravity flow in flooded coil refrigeration systems. 2,647,877, Aug. 4.

Cartwright, John R.: *See*—
Bowyer, Aldred W., and Cartwright.

Carver, Richard N., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Molded track for vehicle toys. 2,647,693, Aug. 4.

Casady, Philip M. and R. R., Los Angeles, Calif. Apparatus for cleaning open ended hollow tubular elements. 2,647,526, Aug. 4.

Casady, Richard R.: *See*—
Casady, Philip M. and R. R.

Casnati, Lola A., New York, N. Y. Sanitary holder for articles. 2,647,785, Aug. 4.

Caswell, Arthur S.: *See*—
Wood, Joseph D., and Caswell.

Caterpillar Tractor Co., assignee: *See*—
Robinson, Ronald B.

Ceskoslovenske pivovary, lihovary a Konservarny, narodni podnik, assignee: *See*—
Salac, Václav.

Chapman, Richard M.: *See*—
Dahlberg, Arnold R., Larson, and Chapman.

Chase-Shawmut Company, The, assignee: *See*—
Edsall, William S., and Swain.

Chayne, Charles A., Flint, assignor to General Motors Corporation, Detroit, Mich. Vehicle door locking means. 2,647,789, Aug. 4.

Chemical Construction Corporation, assignee: *See*—
Allen, Louis N. Jr., McGauley, and Roberts.
McGauley, Patrick J.
McGauley, Patrick J., and Masur.
Roberts, Edward S.

Chilton, William D., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Clip clinching tool. 2,647,814, Aug. 4.

Chimani, Frédéric, Strasbourg, France. Rapid shovelling device. 2,647,332, Aug. 4.

Chisena, Ernest F., Brooklyn, N. Y. Cable insulation cutter. 2,647,309, Aug. 4.

Christensen, Carl O., Walnut Creek, assignor to Roll-Rite Corporation, Oakland, Calif. Wheel and mounting assembly. 2,647,277, Aug. 4.

Christian, Raymond A., A. J. Strachan, and P. H. Williams, assignors to The National Cash Register Company, Dayton, Ohio. Symbol printing mechanism for accounting machines. 2,647,688, Aug. 4.

Christy, Claire C.: *See*—
Nafe, James E., Sr., and Christy.

Chrysler Corporation, assignee: *See*—
Berner, Carl H.
Flemming, Albert E.
Iavelli, Teno.
Maurer, Edwin R.

Chu, Lan Jen, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Vernier scanner. 2,648,003, Aug. 4.

Cibié, Pierre, Paris, France. Combined voltage regulator and self-closing circuit breaker. 2,648,035, Aug. 4.

Cibulka, Alois, Highlands, Tex. Floating roof for tanks. 2,647,654, Aug. 4.

Cieslik, Richard J., Baltimore, Md. Curtain fixture. 2,647,644, Aug. 4.

Ciglia, Ernest F., Mount Vernon, N. Y. Oil burner. 2,647,567, Aug. 4.





Claesson, Per H. E.: *See*—
Rost, Helge F., and Claesson.

Clark Equipment Company, assignee: *See*—
Cook, Charles A.
Lapsley, Robert.
Sherriff, Fred.

Clark, Harold A., assignor to Dow Corning Corporation, Midland, Mich. Thermosetting organosiloxane resinous compositions and curing them with beta-hydroxyethyltrimethyl ammonium bicarbonate. 2,647,881, Aug. 4.

Clary Multiplier Corporation, assignee: *See*—
Parsons, Wharton A., and Busch.

Claus, William H., Downers Grove, Ill., assignor to Westinghouse Air Brake Company. Apparatus for controlling highway crossing signals. 2,647,988, Aug. 4.

Clayton, Joseph F.: *See*—
Greenfield, Alexander, and Clayton.

Cleveland Brass Manufacturing Company, The, assignee: *See*—
Exton, Fred W.

Clevenger, Carl L.: *See*—
Nichols, Charles A., Clevenger, Zion, and Fletcher.

Closkin, Léon A. A. J.: *See*—
Warmoes, Jean J., and Closkin.

Coates, Henry T., Clinton, assignor to Monitor Process Corporation, Jersey City, N. J. Self-measuring milk dispenser. 2,647,719, Aug. 4.

Colling, James R., Danville, Ill. Hoist structure. 2,647,724, Aug. 4.

Colling, James R., Danville, Ill. Hoist structure. 2,647,725, Aug. 4.

Cole, Stanley L.: *See*—
Watson, William H., and Cole.

Coletta, Joseph E., Hyde Park, Mass., assignor to Farrington Manufacturing Company. Box with pivoting article display. 2,647,622, Aug. 4.

Colt's Manufacturing Company, assignee: *See*—
McNally, John M.

Columbia Broadcasting System, Inc., assignee: *See*—
Goldmark, Peter C.

Commercial Solvents Corporation, assignee: *See*—
Schmitz, Fred W.
Tindall, John B.
Young, Vernon V.

Connolly, Charles E., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Machine for punching records. 2,647,580, Aug. 4.

Connor, Roger, and H. E. Hooe, assignors to The McBee Company, Athens, Ohio. Apparatus for cutting and mounting frames of adhesive-coated material on cards. 2,647,578, Aug. 4.

Conrad, Martin B.: *See*—
Baker, John R., and Concad.

Conradson, Prentice H., Chicago, Ill., assignor of one-half to T. P. Slattery, Dearborn, Mich. Grinder gauge. 2,647,346, Aug. 4.

Consolidated Engineering Corporation, assignee: *See*—
Robinson, Charles F.
Sink, Robert L.

Cook, Charles A., Jackson, assignor to Clark Equipment Company, Buchanan, Mich. Clutch construction. 2,647,596, Aug. 4.

Cook, Nelson E., and S. L. Norteman, assignors to Wheeling Steel Corporation, Wheeling, W. Va. Terne coating metal and terne coated product. 2,647,304, Aug. 4.

Cook, Nelson E., and S. L. Norteman, assignors to Wheeling Steel Corporation, Wheeling, W. Va. Tight coat hot dip galvanizing and hot dip galvanized product. 2,647,305, Aug. 4.

Cook, William J., Lansdale, Pa., assignor, by mesne assignments, to Eastern Metals Research Co. Inc., New York, N. Y. Spring device. 2,647,743, Aug. 4.

Cordone, Marcelin, Lausanne, Switzerland. Indexed book. 2,647,766, Aug. 4.

Coturno, S. A., assignee: *See*—
Mediano Candevilla, Gonzalo.

Coughlan, Standly T.: *See*—
Thomas, Earl E., and Coughlan.

Court, Jean, Chatelaine-Geneva, assignor to Mefina S. A., Binningen, Switzerland. Feed mechanism for sewing machines. 2,647,481, Aug. 4.

Courtney, Edward J., Oaklyn, N. J. Applying covers to drawing rolls. 2,647,556, Aug. 4.

Cover, Martin L., Allen Park, Mich., assignor to National Steel Corporation. Sintering machine. 2,647,615, Aug. 4.

Cox, David C., assignor to Electric Sorting Machine Company, Grand Rapids, Mich. Lemon box loader. 2,647,670, Aug. 4.

Craig, Burnie J., Los Angeles County, Calif. Latch. 2,647,781, Aug. 4.

Criley, William W., Shaker Heights, assignor to The Ajax Manufacturing Company, Euclid, Ohio. Upsetting forging machine. 2,647,421, Aug. 4.

Cromna Company, The, assignee: *See*—
Mortensen, Svend O.

Crossley, Moses L., Plainfield, and P. F. Dreisbach, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. 5-aralkylamino-9-dialkylaminobenzo [a] phenoxazine compounds and preparing same. 2,647,895, Aug. 4.

Crothers, John M., Lambert, Miss. Combination shirt and tie. 2,647,262, Aug. 4.

Crowell, Arnold B.: *See*—
Gardinor, Elliott W., and Crowell.

Crown Cork Specialty Corporation, assignee: *See*—
Burnell, Milo.

Cruikshank, Blanche D., Coshocton, Ohio. Portable rack. 2,647,643, Aug. 4.

Cutler-Hammer, Inc., assignee: *See*—
Douglas, John F. H., and Evans.

Da Fano, Ettore, Raritan, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Automotive coolant. 2,647,874, Aug. 4.

Dahlberg, Arnold R., R. T. Larson, and R. M. Chapman, assignors to The Tonex Company, Minneapolis, Minn. Coin ejector for coin-operated timing mechanism. 2,647,608, Aug. 4.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Stump, Eugen.

David, Frank L., College Point, N. Y. Releasable fastener. 2,647,294, Aug. 4.

David, Otto: *See*—
Triebnigg, Heinrich, and David.

Davidson Corporation, assignee: *See*—
Dell, Edward F.

Davis, Jessie A., Foundation, Inc., assignee: *See*—
Davis, John H.

Davis, John H., assignor to Jessie A. Davis Foundation, Inc., Detroit, Mich. Screw pump. 2,647,467, Aug. 4.

Day-Brite Lighting, Inc., assignee: *See*—
Biller, David J.

Day & Night Manufacturing Company, assignee: *See*—
Cartter, William G., and Ewell.

Daystrom, Incorporated, assignee: *See*—
Royston, Marvin F.

Dayton Aircraft Products, Inc., assignee: *See*—
Matson, William U., and Barcett.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Resinous composition comprising a vinyl chloride polymer and a benzothiazylmercaptoacetic acid ester as a plasticizer. 2,647,877, Aug. 4.

Dean, Fred, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Color removal from esters. 2,647,868, Aug. 4.

Dean, Walter B., Paris, France, and D. L. Buchanan, Whitemarsh, assignor to The Budd Company, Philadelphia, Pa. Vehicle travel control means. 2,647,415, Aug. 4.

Deere & Company, assignee: *See*—
Dort, Russell L.
Lance, Orville P.
Oehler, William P.

Delaware Engineering Corporation, assignee: *See*—
Moore, William E.

Del'Homme, Daniel L., assignor to Reed Roller Bit Company, Houston, Tex. Wear indicating device for drill bits. 2,647,729, Aug. 4.

Dell, Edward F., Chicago, Ill., assignor, by mesne assignments, to Davidson Corporation. Sheet stripping means for printing presses. 2,647,462, Aug. 4.

Demay, Peter P., Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Manually and fluid-pressure operated valve. 2,647,538, Aug. 4.

De Montebello, Roger L., Paris, France. Method and apparatus for providing from plane images the appearance of solid objects. 2,647,336, Aug. 4.

Denison Engineering Company, The, assignee: *See*—
Adams, Cecil E.

Dentler, Arnold E., Western Springs, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for railway car trucks. 2,647,744, Aug. 4.

Derby Sealers, Incorporated, assignee: *See*—
Erhardt, Oscar P.
Krueger, Alfred P.

Diamond, Milton J., Saginaw, assignor to General Motors Corporation, Detroit, Mich. Electronic hardness sorter. 2,647,628, Aug. 4.

Dibble, George C.: *See*—
Bishop, William J., and Dibble.

Dickason, Nolan E., assignor to Hays Manufacturing Company, Erie, Pa. Machine for drilling, tapping, and inserting stops in a pipe. 2,647,419, Aug. 4.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Trigger circuit. 2,647,995, Aug. 4.

Dietert, Harry W., assignor to Harry W. Dietert Company, Detroit, Mich. Forming and testing specimens of molding material. 2,647,397, Aug. 4.

Dietert, Harry W., Company, assignee: *See*—
Dietert, Harry W.

Dietrich, Albert, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army. Knockdown arch structure. 2,647,475, Aug. 4.

Disera, Samuel J., Joliet, assignor of one-half to C. A. McClure, Chicago, Ill. Picnic cloth holder. 2,647,718, Aug. 4.

Ditto, Clair R.: *See*—
Watson, Roger W., and Ditto.

Dodson, David A., Las Vegas, Nev. Safety razor. 2,647,308, Aug. 4.

Dolan, John M., Milwaukee, Wis., assignor to Joy Manufacturing Company. Control for turbine-driven compressors. 2,647,682, Aug. 4.

Dole Valve Company, The, assignee : *See—*
Keller, Dan W., and Rimsha.

Dome, Robert B., Geddes Township, Onondaga County, N. Y., assignor to General Electric Company. Frequency stabilized radio receiving system. 2,647,992, Aug. 4.

Donnell, Kenneth B., Rochester, N. Y. Method of and apparatus for manipulating fishlines. 2,647,339, Aug. 4.

Donnell, Kenneth B., Rochester, N. Y. Fishing reel. 2,647,341, Aug. 4.

Doolittle, Donald B., and J. R. Walden, assignors, by mesne assignments, to All American Engineering Company, Wilmington, Del. Planing surface for aircraft and hydrocraft. 2,647,709, Aug. 4.

Dorr Company, The, assignee : *See—*
Knowles, John H., and Sutcliffe.
Scott, Charles H.

Dort, Russell L., Davenport, Iowa, assignor to Deere & Company, Moline, Ill. Corn harvesting attachment for vehicles. 2,647,353, Aug. 4.

Douglas, Donald J., Mendota Township, Dakota County, P. V. Palmquist, New Canada Township, Ramsey County, and J. D. Grove, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Lettering film. 2,647,848, Aug. 4.

Douglas, Donald J., Mendota Township, Dakota County, P. V. Palmquist, New Canada Township, Ramsey County, and J. D. Grove, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Lettering film. 2,647,849, Aug. 4.

Douglas, John F. H., Milwaukee, and C. T. Evans, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Alternating current electromagnet. 2,648,034, Aug. 4.

Douglass, Ernest, Pomona, assignor to H. L. Hunsicker, Beverly Hills, Calif. Tire removing apparatus with circumferentially distributed thrust members. 2,647,564, Aug. 4.

Dow Chemical Company, The, assignee : *See—*
Barry, Arthur J., and Gilkey.

Dow Corning Corporation, assignee : *See—*
Clark, Harold A.

Downey, Reginald L., Syracuse, N. Y., assignor to General Electric Company. High-frequency coupling device. 2,647,947, Aug. 4.

Draper Corporation, assignee : *See—*
Budzyna, Walter J., and Flamand.
Nichols, Edward C.

Dreibelbis, Logan L., San Juan, Tex., assignor to The M. W. Kellogg Company, Jersey City, N. J. Pulse jet engine with spontaneously ignitable fuel and oxidizer. 2,647,364, Aug. 4.

Dreisbach, Paul F. : *See—*
Crossley, Moses L., and Dreisbach.

Dremann, Walter J., North Warren, and R. E. Dunham, assignors to Sun Ray Electric, Inc., Warren, Pa. Self-ballasting gaseous discharge lamp. 2,648,029, Aug. 4.

Drill, Richard J., East Orange, N. J. Infant feeding bottle support. 2,647,714, Aug. 4.

Drout, William M., Jr., Linden, N. J., assignor to Standard Oil Development Company. Purification of ketones by distillation. 2,647,861, Aug. 4.

Drury, Herbert R., Laguna Beach, Calif. Centrifugal separator. 2,647,686, Aug. 4.

Dube, John B., Dallas, Tex. Insulated container for perishable substances. 2,647,653, Aug. 4.

Duda, A., & Sons, assignee : *See—*
Duda, John, A., Jr., and F.

Duda, Andrew, Jr. : *See—*
Duda, John, A., Jr., and F.

Duda, Ferdinand : *See—*
Duda, John, A., Jr., and F.

Duda, John, A., Jr., and F., assignors to A. Duda & Sons, Oviedo, Fla. Apparatus for harvesting crops. 2,647,525, Aug. 4.

Du Mont, Allen B., Laboratories, Inc., assignee : *See—*
Geohegan, William A.

Duncan, Theodore R., North Hollywood, Calif. Music box comb and sounding board construction. 2,647,427, Aug. 4.

Dunham Company, The, assignee : *See—*
Kraus, Raymond M.

Dunham, Robert E. : *See—*
Dremann, Walter J., and Dunham.

Dunlop Rubber Company Limited, assignee : *See—*
Trevaskis, Henry W.

Du Pont, E. I., de Nemours and Company, assignee : *See—*
Iliffica, Harry R.
Patten, Stanley H.
Pollock, Frank S., Jr.
Smith, James S.
Warburton, Ryland R.
Weaver, Clay.

Dutro, Orville V., La Canada, and J. F. Nameth, Los Angeles, Calif., assignors to The McNee Company, Athens, Ohio. Punch press for notching. 2,647,579, Aug. 4.

Dvorak, Lewis H., Jacksonville, Fla. Dental matrix instrument. 2,647,315, Aug. 4.

Dyer, Alvin C., Shaker Heights, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Resistance unit and element thereof. 2,647,978, Aug. 4.

Dynamatic Corporation, assignee : *See—*
Jeeschke, Ralph L.

E. A. Laboratories, Inc., assignee : *See—*
Aullero, John M.

Eagle, Pennie S., Detroit, Mich. Liquid applicator. 2,647,273, Aug. 4.

Eastern Metals Research Co. Inc., assignee : *See—*
Cook, William J.

Eastman, Fred C., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,647,478, Aug. 4.

Easy Washing Machine Corporation, assignee : *See—*
Keiper, Francis P.
Scheele, Charles C.
Williams, Earl C.

Eaton, James E., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Dielectric antenna. 2,648,002, Aug. 4.

Ebert, James P., assignor, by mesne assignments, to Battelle Development Corporation, Columbus, Ohio. Electrography. 2,647,464, Aug. 4.

Edsall, William S., Boston, Mass., and K. W. Swain, Hampton, N. H., assignors to The Chase-Shawmut Company, Newburyport, Mass. Current-limiting fusible protective device. 2,647,970, Aug. 4.

Edwards, Charles R., deceased, Houston, Tex. ; F. R. Edwards, executrix of C. R. Edwards. Pipe releasing means. 2,647,727, Aug. 4.

Edwards, Charles R. : *See—*
Edwards, Charles R.

Edwards, Frances R., executrix : *See—*
Edwards, Charles R.

Edwards, James R. : *See—*
Quear, Eugene C., Shaw, and Edwards.

Eichorn, Robert N. : *See—*
Wagner, John L., Webb, and Eichorn.

Electric Controller & Manufacturing Company, The, assignee : *See—*
Dyer, Alvin C.

Electric & Musical Industries Limited, assignee : *See—*
White, Eric L. C.

Electric Sorting Machine Company, assignee : *See—*
Cox, David C.

Ellason, Joseph B., Minneapolis, Minn. Distance and angle measuring device. 2,647,322, Aug. 4.

Elliott, John R. : *See—*
Perl, Martin L., and Elliott.

Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Apparatus for collecting and preserving blood. 2,647,514, Aug. 4.

Ellis, Richard G., assignor to General Cement Mfg. Co., Rockford, Ill. Display card. 2,647,640, Aug. 4.

English Electric Valve Company, Limited, assignee : *See—*
Randall, John T., and Boot.

Ensign Carburetor Company, assignee : *See—*
Ensign, Harold W.

Ensign, Harold W., Fullerton, assignor to Ensign Carburetor Company, Huntington Park, Calif. Fluid pressure regulator with tight shutoff action. 2,647,345, Aug. 4.

Ensminger, Arthur A. : *See—*
Russell, Frank C., and Ensminger.

Erhardt, Oscar P., assignor to Derby Sealers, Incorporated, Derby, Conn. Dispenser for pressure-sensitive tape. 2,647,745, Aug. 4.

Ericson, Albert A., Massapequa Park, N. Y., assignor to The Farmingdale Corporation. Hydraulic machine tool drive. 2,647,371, Aug. 4.

Erlanger, Arnold, Elizabeth, N. J., assignor to United States Hoffman Machinery Corporation, New York, N. Y. Distribution of supplies to laundry washers. 2,647,384, Aug. 4.

Eshner, Allen J. : *See—*
Boydston, Raymond W., and Eshner.

Etablissements Ed. Jaeger, assignee : *See—*
Rodanet, Charles H. H.

Euclid Road Machinery Co., The, assignee : *See—*
Schindler, Harold C.

Evans, Carl L., assignee : *See—*
Baumann, Gottlieb W.

Evans, Clarence T. ; *See—*
Douglas, John F. H., and Evans.

Evans, Edward M., Tonbridge, S. E. Bradshaw, Tunbridge Wells, England, and J. E. S. Whitney, Penarth, Wales, assignors to British Resin Products Limited, London, England. Copolymers of vinyl phenols with drying oils. 2,647,876, Aug. 4.

Evans, Edward M., and J. E. S. Whitney, Tonbridge, assignors to British Resin Products Limited, London, England. Etherification of vinyl phenol polymers and copolymers. 2,647,882, Aug. 4.

Evans, Edward M., Tonbridge, England, and J. E. S. Whitney, Penarth, Wales, assignors to British Resin Products Limited, London, England. Copolymers of vinyl phenols with butadiene compounds. 2,647,883, Aug. 4.

Ewell, Joseph R. : *See—*
Cartter, William G., and Ewell.





Exton, Fred W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Tank fill connection. 2,647,768, Aug. 4.

Failor, Charles W., Forest Hills, and C. B. Shields, Penn Township, Allegheny County, Pa., assignors to Westinghouse Air Brake Company. Centralized traffic control system for railroads of the normally deenergized reversible coded track circuit type, including outlying track switch protection. 2,647,987, Aug. 4.

Falge, Robert N., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Headlight bezel ring mounting. 2,647,984, Aug. 4.

Fancher, Otis E. : *See—*
Stauffer, Dale A., and Fancher.

Farmingdale Corporation, The, assignee : *See—*
Ericson, Albert A.

Farrington Manufacturing Company, assignee : *See—*
Coletta, Joseph E.
Ortendahl, David.
Sedgwick, Wendell W.

Fasco Industries, Inc., assignee : *See—*
Byam, Peter M.

Fell Developments Limited, assignee : *See—*
Fell, Louis F. R.

Fell, Louis F. R., Littleover, assignor to Fell Developments Limited, London, England. Internal-combustion engine power unit for locomotives. 2,647,372, Aug. 4.

Fenn, James E. : *See—*
La Brie, Laurent J., and Fenn.

Fenske, Ellsworth R., Lyons, assignor to Universal Oil Products Company, Chicago, Ill. Flow measuring apparatus. 2,647,403, Aug. 4.

Ferman, Saul M., assignor to Bendix Aviation Corporation, Detroit, Mich. Louver. 2,647,453, Aug. 4.

Ferrar, Bernard, Los Angeles, Calif. Slip sheeter attachment for duplicators. 2,647,463, Aug. 4.

Ferro, Louis, Providence, R. I. Piercing earring. 2,647,379, Aug. 4.

Fidelman, Paul H., New York, N. Y. Straight spring controlled escapement regulating system. 2,647,362, Aug. 4.

Filocamo, Aldo, Milan, Italy. Electric automatic operating apparatus for mechanical speed changing devices, particularly for motor cars. 2,647,411, Aug. 4.

Fisher, Frank W., trustee, assignee : *See—*
Bennett, Willis J.

Fisk, Roy A., Cedar Rapids, Iowa. Door holder. 2,647,782, Aug. 4.

Flamand, Maurice R. : *See—*
Budzyna, Walter J., and Flamand.

Flemming, Albert E., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Closure seal of cantilever type for vehicle bodies and the like. 2,647,792, Aug. 4.

Fletcher, William A. : *See—*
Nichols, Charles A., Clevenger, Zion, and Fletcher.

Florman, Irving, New York, N. Y. Pyrophoric lighter for handicapped persons. 2,647,383, Aug. 4.

Floyd, Don E., Minneapolis, Minn., assignor to General Mills, Inc. Plastic tall oil rosin fraction. 2,647,888, Aug. 4.

Fluid Packed Pump Company, assignee : *See—*
Black, Millard S., and Salteria.

Flynn, John H., New Rochelle, N. Y. Ribbon-type gas burner-unit. 2,647,569, Aug. 4.

Food Concentrates, Inc., assignee : *See—*
Stone, Roger T.

Ford, Jared H., assignor to The Upjohn Company, Kalamazoo, Mich. 2-chloroprocaine salt of penicillin O. 2,647,894, Aug. 4.

Ford, Silas M., St. Paul, Minn. Educational puzzle. 2,647,330, Aug. 4.

Forward, Frank A., Vancouver, British Columbia, assignor to Sherritt Gordon Mines Limited, Toronto, Ontario, Canada. Recovering nickel and/or cobalt ammonium sulfate from solutions containing nickel and/or cobalt values. 2,647,820, Aug. 4.

Foster Wheeler Corporation, assignee : *See—*
Frisch, Martin.
Kochle, Joseph E.

Fox, John L. : *See—*
Sievern, Frederick, and Fox.

Franklin, Albert W., New York, N. Y. Design forming and attaching method. 2,647,852, Aug. 4.

Frasch, Jean : *See—*
Freud, Herbert M.

Frazier, Allen W., Glen Ellen, Calif. Water conditioner. 2,647,871, Aug. 4.

Freeman, Benjamin A., Upper Montclair, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Pressure relief valve applicable to fuel gas mains. 2,647,534, Aug. 4.

Freud, Herbert M., dit Jean Frasch, Manterre, France. Brightening aluminum and aluminum alloy surfaces. 2,647,865, Aug. 4.

Freudenstein, Michel : *See—*
Zileri, Alberto L. J., and Freudenstein.

Friedler, Max H., Lewiston, Maine. Garment hanger construction. 2,647,666, Aug. 4.

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Fluid vessel. 2,647,656, Aug. 4.

Frost, Lester P., Placerville, Calif. Bait connector. 2,647,270, Aug. 4.

Fuller Company, assignee : *See—*
Hornbrook, Philip R.

Furness, William H., Haddonfield, N. J., assignor to American Viscose Corporation, Philadelphia, Pa. Yarn advancing reel having liquid applying and liquid stripping means. 2,647,389, Aug. 4.

Gaines, James W., Los Angeles, Calif., assignor to North American Aviation, Inc. Load application unit. 2,647,400, Aug. 4.

Galatas, S. A., trustee, assignee : *See—*
Bernett, Willis J.

Galik, Jess G., Bayside, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Stack clamp. 2,647,673, Aug. 4.

Gapatur, Joseph M. : *See—*
Pollock, Robert K., and Gapatur.

Gardinor, Elliott W., Conklin, and A. B. Crowell, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Record card punching machine. 2,647,581, Aug. 4.

Garrison, John W., Big Spring, Tex. Pole extension. 2,647,715, Aug. 4.

Garrison, Kathryn, assignee : *See—*
Topmiller, Edwin B.

Gee, Bruce D. : *See—*
Mason, George W., and Gee.

General Aniline & Film Corporation, assignee : *See—*
Buc, Saul R.
Buc, Saul R., and Glickman.
Ney, William O., Jr.
Randall, David I.

General Cement Mfg. Co., assignee : *See—*
Ellis, Richard G.

General Electric Company, assignee : *See—*
Barker, Leonard M.
Dome, Robert B.
Downey, Reginald L.
Grobel, Lloyd P.
Keim, Donald B.
Lang, Robert A., and Savasky.
Meier, Donald R.
Newberry, Sterling P., Jr.
Paluev, Konstantin K.
Perl, Martin L., and Elliott.
Swerdlow, Nathan, and Abel.
Witkowski, Raymond J.
Young, James F.
Ziffer, Garret F.

General Mills, Inc., assignee : *See—*
Floyd, Don E.

General Motors Corporation, assignee : *See—*
Braun, Adolph F.
Candor, Robert R.
Chayne, Charles A.
Chilton, William D.
Diamond, Milton J.
Falge, Robert N.
Hill, Robert H., and Guyton.
Leet, Jack M.
Macan, Albert L.
Nichols, Charles A., Clevenger, Zion, and Fletcher.
Quear, Eugene C., Shaw, and Edwards.
Saunders, Orson V.
Schweller, Sylvester M.
Storer, John E., Jr., and Livezey.

General Precision Laboratory Incorporated, assignee : *See—*
Zaleski, John F.

Genovese, Anthony L. : *See—*
Samler, Lee F., and Genovese.

Gentilio, Achille J., Jackson Heights, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Hemmer. 2,647,479, Aug. 4.

Geohegan, William A., Brooklyn, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Beam-intensity controlling circuit for cathode-ray oscillograph. 2,648,027, Aug. 4.

Gibbons, Melvin W., assignor of one-third to W. J. Gibbons and one-third to J. A. Burke, Brandon, Wis. Eaves trough clamp. 2,647,476, Aug. 4.

Gibbons, Wayne J., assignee : *See—*
Gibbons, Melvin W.

Gifford, James S., New Westminster, British Columbia, Canada. Shingle surfacing machine. 2,647,547, Aug. 4.

Gilbert, Everett E., Flushing, and S. L. Giolito, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Preparing monosulfonated saturated aliphatic dicarboxylic acids. 2,647,925, Aug. 4.

Gilkey, John W. : *See—*
Barry, Arthur J., and Gilkey.

Gillick, Laurance H., Evanston, E. A. Russell, Chicago, and N. O. Kirkby, Elmhurst, assignors to Vapor Heating Corporation, Chicago, Ill. Air blending temperature control for heating and cooling systems. 2,647,452, Aug. 4.

Gilmore, Charles G., Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Strand tension device. 2,647,705, Aug. 4.

Gilson, William B., Anderson, Ind. Removable blade shears. 2,647,314, Aug. 4.

Giolito, Silvio L. : *See—*
Gilbert, Everett E., and Giolito.

Gladu, Charles H., Pawtucket, R. I. Saw clamp. 2,647,418, Aug. 4.

Glickman, Samuel A.: *See*—
Ilue, Saul R., and Glickman.

Gluesenkamp, Earl W.: *See*—
Patrick, Tracy M., Jr., and Gluesenkamp.

Goffredo, Daniel L., Easton, Pa. Etching process. 2,647,864, Aug. 4.

Goldberg, Bernard W.: *See*—
Troeger, Henry, and Goldberg.

Goldmark, Peter C., New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Phonograph pickup mounting. 2,647,753, Aug. 4.

Good, James N., Lafayette, Ind. Apparatus for electronic spectrometric analysis of back-reflection diffraction. 2,648,011, Aug. 4.

Goodbar, Mayo A., Oakwood, and R. G. Pratt, assignors to The National Cash Register Company, Dayton, Ohio. Ticket printing mechanism. 2,647,458, Aug. 4.

Goodman, Morris, Indianapolis, Ind. Door actuated clock winding mechanism. 2,647,361, Aug. 4.

Goodrich, B. F., Company, The, assignee: *See*—
Krupp, Carroll P.
Leguillon, Charles W.

Goppel, Johan M., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Stabilization of sulfur dioxide-rubbery polymer products. 2,647,887, Aug. 4.

Gordon, Isidor S., Springfield, Mass. Holder for connecting devices. 2,647,424, Aug. 4.

Gould, Robert E., East Aurora, N. Y. Method and apparatus for manufacture of pottery. 2,647,295, Aug. 4.

Graham, Roy G., and O. F. Tallman, assignors to James R. Kearney Corporation, St. Louis, Mo. Apparatus for connecting portable telephones to lines in the field. 2,648,052, Aug. 4.

Green, Loran E., Port Huron, Mich. Belt cleaner. 2,647,619, Aug. 4.

Greene, Dorothea R., administratrix: *See*—
Greene, William K.

Greene, William K., deceased, by D. R. Greene, administratrix, Ontario, Calif. Filter cartridge. 2,647,633, Aug. 4.

Greenfield, Alexander, assignor to Bendix Aviation Corporation, Detroit, Mich. Counting circuit. 2,647,996, Aug. 4.

Greenfield, Alexander, and J. F. Clayton, assignors to Bendix Aviation Corporation, Detroit, Mich. System for measuring radioactivity. 2,648,015, Aug. 4.

Grein, Raymond C., Rochester, N. Y. Apparatus for cleaning tanks and the like. 2,647,639, Aug. 4.

Grieshammer, Herman H. O., assignor to Victor Balata & Textile Belting Co., Easton, Pa. Hydraulically operated vulcanizing press. 2,647,554, Aug. 4.

Griesheimer, Rudolph N., and R. C. Hydell, Chillicothe, assignors to The Mead Corporation, Dayton, Ohio. Apparatus and process for coating paper. 2,647,842, Aug. 4.

Grimshaw, Thomas B.: *See*—
Matthews, John B., and Grimshaw.

Grobel, Lloyd P., Schenectady, N. Y., assignor to General Electric Company. Shaft seal. 2,647,771, Aug. 4.

Grögl, Max F., and A. Roe, Barranquilla, Colombia. Patient controlled electric motor for dental units. 2,648,043, Aug. 4.

Grondona, Valentin D., Rosario, Argentina. Stereophotogrammetric restorer. 2,647,318, Aug. 4.

Grove, Jerome D.: *See*—
Douglas, Donald J., Palmquist, and Grove.

Grubich, Stephan A., Philadelphia, Pa. Pipe joint intersector. 2,647,319, Aug. 4.

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Wide hollow steel propeller blade and making the same. 2,647,586, Aug. 4.

Grunewald, Glen R., Chicago, and F. J. Pierce, La Grange, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus and process for countercurrent liquid-liquid extraction. 2,647,855, Aug. 4.

Grunewald, Glen R., Chicago, and F. J. Pierce, La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus and process for countercurrent liquid-fluid extraction. 2,647,856, Aug. 4.

Guarantee Specialty Manufacturing Co., The, assignee: *See*—
Meyer, Robert W.

Guettler, Herbert W., San Francisco, Calif. Short wood chain barker. 2,647,548, Aug. 4.

Goichard, Raymond A. E., Paris, France. Apparatus for displaying variable information in offices and elsewhere. 2,647,327, Aug. 4.

Gulf Research & Development Company, assignee: *See*—
Horne, William A.

Gurzny, Francis F., Syracuse, N. Y. Tie holder. 2,647,263, Aug. 4.

Guyton, James H.: *See*—
Hill, Robert H., and Guyton.

Gylling, Eli: *See*—
Bloch, Sven H., and Gylling.

Hackenberg, John H.: *See*—
Ridings, Garvice H., Hackenberg, and Worthen.

Hackett, Claude J.: *See*—
Saunders, Norman H., Hackettt, and Bellamy.

Hahn, Robert S., Northboro, assignor to The Heald Machine Company, Worcester, Mass. Feed mechanism for internal grinding machines. 2,647,348, Aug. 4.

Halicn Company, Inc., The, assignee: *See*—
Kirk, Melvin B.

Hammond, Dean B.: *See*—
Kaiser, Edgar F., and Hammond.

Hankes, Elmer J.: *See*—
Hove, Leland H., Hankes, and Perry.

Hansford, Rowland C.: *See*—
Plank, Charles J., and Hansford.

Harbert, George C., Ann Arbor, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Window weatherstripping. 2,647,289, Aug. 4.

Harding, William R.: *See*—
Opel, Lawrence G., and Harding.

Hare, Glenn: *See*—
Hart, Barton R., and Hare.

Harrison, Geoffrey B., and R. R. Robinson, assignors to Ilford Limited, Ilford, England. Color photographic film and process. 2,647,833, Aug. 4.

Harrison, Thomas R., Wyncote, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Measuring apparatus. 2,648,037, Aug. 4.

Hart, Barton R., and G. Hare, Rocky Gap, Va. Aligning apparatus. 2,647,321, Aug. 4.

Hartline, Haidan K.: *See*—
Milne, Lorna J., Rawson, and Hartline.

Harvey, Leo M., Los Angeles, Calif. Mechanism for dispensing liquid from a plurality of supply containers. 2,647,661, Aug. 4.

Hathaway, Claude M., Littleton, Colo. Thermal flowmeter. 2,647,401, Aug. 4.

Haverlin Aviation Products, Inc., assignee: *See*—
Haverlin, Jack F.

Haverlin, Jack F., assignor to Haverlin Aviation Products, Inc., Northridge, Calif. Control for the landing gear of aircraft. 2,647,708, Aug. 4.

Hawtin, Selwyn G.: *See*—
Taylor, William L., and Hawtin.

Hayes, Andrew P., San Francisco, Calif. Reel for leashes. 2,647,703, Aug. 4.

Haynie, Earl L., Berwyn, Ill. Motor fuel selector assembly. 2,647,566, Aug. 4.

Haynie, Earl L., Berwyn, Ill. Attachment for carburetors. 2,647,735, Aug. 4.

Haya Manufacturing Company, assignee: *See*—
Dickason, Nolan E.

Heald Machine Company, The, assignee: *See*—
Hahn, Robert S.

Heavens, John E., Jr., Seymour, assignor to The Star Pin Company, Derby, Conn. Bobby pin container. 2,647,524, Aug. 4.

Heiman, Sidney J., St. Louis, Mo. Forced air apace heater with air-cooled motor. 2,647,506, Aug. 4.

Helno Company, The, assignee: *See*—
Panfil, Conrad J., Sr.

Heinzelmann, Richard V., assignor to The Unjohn Company, Kalamazoo, Mich. Separatinn of the diastereoisomeric bis [β-(ortho-methoxyphenyl) isopropyl] amines. 2,647,929, Aug. 4.

Helton, Robert J.: *See*—
Weisberger, Arthur A., and Helton.

Herr, Milton E.: *See*—
Heyl, Frederick W., and Herr.

Héry, Edouard, Neuilly-sur-Seine, and K. A. Thorsen, Grenoble, France. Paper pulp beating engine. 2,647,444, Aug. 4.

Heyl, Frederick W., and M. E. Herr, assignors to The Upjohn Company, Kalamazoo, Mich. Partial synthesis of pregnenolone. 2,647,909, Aug. 4.

Hickey, Henri J., Norwalk, Ohio. Internal-combustion engine. 2,647,498, Aug. 4.

Hilburn, Earl D., Silver Spring, Md. Flexible repeater. 2,647,989, Aug. 4.

Hill, Oiva E., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,647,504, Aug. 4.

Hill, Robert H., Anderson, and J. H. Guyton, Kokomo, Ind., assignors to General Motors Corporation, Detroit, Mich. Control for aerial torpedoes. 2,647,707, Aug. 4.

Hillyer, John C., Bartlesville, and C. H. Ice, Norman, Okla., assignors to Phillips Petroleum Company. Dehalogenation of organic compounds. 2,647,934, Aug. 4.

Hilpman, Paul, Garden City, and W. J. Bahm, Brooklyn, N. Y., assignors to Mergenthaler Linotype Company. Typographical composing machine. 2,647,620, Aug. 4.

Hinman, Dorr J., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Method and apparatus for splicing. 2,647,555, Aug. 4.

Hirvonen, Eric J., Shrewsbury, assignor to Leland-Gifford Company, Worcester, Mass. Machine tool spindle construction. 2,647,407, Aug. 4.

Hockery, John C., trustee, assignee: *See*—
Landry, William J.

Hoecker, Frank E.: *See*—
Roofe, Paul G., and Hoecker.

Hoffar, Charles F., assignor, by mesne assignments, to A. A. Schmidt, Los Angeles, Calif. Foldable table and seat assembly. 2,647,562, Aug. 4.

Hoffman, Manfred T., Newburyport, Mass. Treatment of textile fibers for removing foreign matter therefrom. 2,647,286, Aug. 4.





Hoffmann-La Roche Inc., assignee: *See*—
Aeschlimann, John A., and Stempel.
Rey-Bellet, Gerald.
Stempel, Arthur.

Hogan, Timothy S., assignee: *See*—
Osterfield, George J.

Hollingsworth, Lowell M., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Wave guide calorimeter wattmeter. 2,648,047, Aug. 4.

Holman, James H., Scottsdale, Ariz. Adjustable fence post anchoring means. 2,647,593, Aug. 4.

Holmes, Alan D., Oak Park, assignor to Armour and Company, Chicago, Ill. Lyophilization container. 2,647,513, Aug. 4.

Holmes, Louis D., Blue Island, assignor to Whiting Corporation, Harvey, Ill. Apparatus adapted for use in washing eaves of railway and other vehicles and embodying one or more rotary power-driven brushes mounted to swing bodily up and down and also to tilt. 2,647,272, Aug. 4.

Hooe, Hunter E.: *See*—
Connor, Roger, and Hooe.

Hopwood, John A., Westfield, assignor to Monitor Process Corporation, Jersey City, N. J. Remodeling milk cans. 2,647,302, Aug. 4.

Hopwood, John A., Westfield, assignor to Monitor Process Corporation, Jersey City, N. J. Valve operating mechanism. 2,647,532, Aug. 4.

Hora, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Machine for tapering sheet metal blanks. 2,647,422, Aug. 4.

Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Machine for rolling tapered disks. 2,647,423, Aug. 4.

Hornbrook, Philip R., Allentown, assignor to Fuller Company, Catasauqua, Pa. Pneumatic unloader. 2,647,802, Aug. 4.

Horne, William A., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Hydrodesulfurization process. 2,647,857, Aug. 4.

Horst, E. Clemens, Company, assignee: *See*—
Miller, George E.

Horste, Joseph E., Belleville, Mich. Resilient universal mounting for tractor mowers. 2,647,354, Aug. 4.

Hostetler, Gerald W., Dearborn, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Electrical indicating means. 2,648,059, Aug. 4.

Houdry Process Corporation, assignee: *See*—
Barker, John W.

House, Frank R.: *See*—
Bentley, George P., and House.

Hove, Leland H., E. J. Hankes, and M. M. Perry, assignors to Hove Spark-O-Liner Corporation, Minneapolis, Minn. Filter. 2,647,635, Aug. 4.

Hove Spark-O-Liner Corporation, assignee: *See*—
Hove, Leland H., Hankes, and Perry.

Howe Scale Company, The, assignee: *See*—
Singleton, Lester D.

Howell, Hugh A., Berwyn, Ill., assignor to The Indiana Steel Products Company, Valparaiso, Ind. Magnetically recording and mechanism therefor. 2,647,954, Aug. 4.

Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Knitting machine sinker controlling means. 2,647,382, Aug. 4.

Huck, Louis C., assignor to Huck Manufacturing Company, Detroit, Mich. Divided hollow rivet with expanding means. 2,647,432, Aug. 4.

Huck Manufacturing Company, assignee: *See*—
Huck, Louis C.

Hudson, Albert, Detroit, Mich. Vehicle wheel and tire antitheft device. 2,647,763, Aug. 4.

Hudson, William J., assignor to Allen-Bradley Company, Milwaukee, Wis. Magnet control. 2,648,033, Aug. 4.

Hudziak, Alberta I., and P. H. Kyker, Seattle, Wash. Chair tray with furniture arm engaging bracket. 2,647,716, Aug. 4.

Huebener, William C., Cincinnati, Ohio. Posture chair and seat. 2,647,560, Aug. 4.

Hughes, Robert, Woodside, N. Y. Seam baster. 2,647,316, Aug. 4.

Humphrey, Eugene O., Salt Lake City, Utah. Railway switch box. 2,647,710, Aug. 4.

Hunsicker, Homer L., assignee: *See*—
Douglass, Ernest.

Hunter, Frederick H., East McKeesport, Pa. Coin operating mechanism. 2,647,607, Aug. 4.

Hutton, Dorothy D., New York, N. Y. Cap. 2,647,259, Aug. 4.

Hutton, Dorothy D., New York, N. Y. Cap. 2,647,264, Aug. 4.

Hydell, Robert C.: *See*—
Griesheimer, Rudolph N., and Hydell.

I. T. E. Circuit Breaker Company, assignee: *See*—
Wood, Joseph D., and Caswell.

Iavelli, Teno, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission and change speed clutch mechanism therefor. 2,647,598, Aug. 4.

Ibbott, Harold W., Watford, assignor to Negretti & Zambra Limited, London, England. Flow metering mechanism. 2,647,402, Aug. 4.

Ice, Clark H.: *See*—
Hillyer, John C., and Ice.

Iddings, Charles D.: *See*—
Woolslayer, Homer J., and Iddings.

Ilford Limited, assignee: *See*—
Harrison, Geoffrey B., and Robinson.

Imperial Chemical Industries Limited, assignee: *See*—
Allan, William G., and Tobin.
Dean, Fred.

Indiana Steel Products Company, The, assignee: *See*—
Howell, Hugh A.

Instrument Development Laboratories, Inc., assignee: *See*—
Ilently, George P., and House.

International Business Machines Corporation, assignee: *See*—
Connolly, Charles E.
Dickinson, Arthur H.
Gardinor, Elliott W., and Crowell.
Rabenda, Edward J.
Wagner, John L., Webb, and Elchorn.

International Mutoscope Corporation, assignee: *See*—
Lissiansky, Alexander.
Rabkin, William, and Baron.

International Standard Electric Corporation, assignee: *See*—
Sindzinski, Willy K.

Irrigation Equipment Co., Inc., assignee: *See*—
Beymer, Oren O.

Jack, William R., and L. D. Cahill, Chagrin Falls, Ohio, said Cahill assignor to said Jack. Electrical contact device. 2,647,975, Aug. 4.

Jackson, Alexander F., East Orange, N. J. Hydrostatic weighing scale. 2,647,740, Aug. 4.

Jacuzzi Bros., Incorporated, assignee: *See*—
Nash, Floyd M.

Jaeschke, Ralph L., Kenosha, Wis., assignor to Dynamatic Corporation. Electromagnetic coupling. 2,648,020, Aug. 4.

Jamieson, William H., Jr.: *See*—
Jamieson, William H. and W. H., Jr.

Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Latch releasing door handle. 2,647,783, Aug. 4.

Jakosky, John J., assignor to Union Oil Company of California, Los Angeles, Calif. Well logging method and apparatus. 2,648,056, Aug. 4.

Jamieson, William H. and W. H., Jr., Patchogue, N. Y. Folding golf bag carrier. 2,647,762, Aug. 4.

Janiszewski, Kasimir, assignor to Superior Steel Products Corp., Milwaukee, Wis. Die set handling flange and coacting hook. 2,647,784, Aug. 4.

Jaquith, John S., Caldwell, assignor to Bendix Aviation Corporation, Teterboro, N. J. Unloader valve. 2,647,530, Aug. 4.

Jarman, James O., Colorado City, Tex. Fluid mixing chamber. 2,647,732, Aug. 4.

Jefferson Lake Sulphur Company, assignee: *See*—
Miller, Ernest B.

Jiffy Enterprises, Inc., assignee: *See*—
Margulis, Joseph M.

Johnson, Ford L., and F. M. Mayes, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Elevation meter. 2,647,323, Aug. 4.

Johnson, John R., Dunn, N. C. Medicament applicator. 2,647,512, Aug. 4.

Jones, Allen R., Roselle, and J. O. Smith, Jr., North Plainfield, N. J., assignors to Standard Oil Development Company. Stabilized compositions containing hydrogenated quinolines with oxidation inhibitors. 2,647,824, Aug. 4.

Jones, Dwight E., and C. H. Vickery, assignors to E. D. Jones & Sons Company, Pittsfield, Mass. Beater refiner apparatus. 2,647,445, Aug. 4.

Jones, E. D., & Sons Company, assignee: *See*—
Jones, Dwight E., and Vickery.

Jones, Frederick M., assignor to The U. S. Thermo Control Co., Minneapolis, Minn. Locking mechanism. 2,647,287, Aug. 4.

Jordan, James F., Huntington Park, Calif. Titanium smelting process. 2,647,826, Aug. 4.

Joy Manufacturing Company, assignee: *See*—
Dohan, John M.

Kaczor, Edward J., and C. F. Schwan, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Stator construction for motors and generators. 2,648,021, Aug. 4.

Kaiser, Donald W., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing an n-substituted carbamate. 2,647,916, Aug. 4.

Kaiser, Edgar F., and D. B. Hammond, Ann Arbor, assignors to Kaiser-Frazer Corporation, Willow Run, Mich. Vehicle body convertible into an article-carrying body. 2,647,788, Aug. 4.

Kaiser-Frazer Corporation, assignee: *See*—
Harbert, George C.
Hostetler, Gerald W.
Kaiser, Edgar F., and Hammond.

Kaiser Metal Products, Inc., assignee: *See*—
Borngesser, Otto J., Bradshaw, and Smith.

Kanagy, Joseph R.: *See*—
Oehler, René, and Kanagy.

Kane, Gideon, Green Bay, Wis. Waste stripping mechanism for carton blank forming apparatus. 2,647,446, Aug. 4.

Kasten, Walter, Detroit, Mich., and L. C. Anderson, Cleveland, Ohio, assignors to Bendix Aviation Corporation, South Bend, Ind. Electrical resistor. 2,647,976, Aug. 4.

Kastning, Ernst H.: *See*—
Van Wessem, Gijsbertus C., and Kastning.

Kauck, Edward A.: *See*—
La Zerte, James D., Pearlson, and Kauck.

Kaufman, Sandor, Yonkers, N. Y. Female undergarment. 2,647,280, Aug. 4.

Kawecki, Henry C., Temple, assignor to The Beryllium Corporation, Reading, Pa. Forming alkaline earth metal-beryllium double fluoride compounds. 2,647,817, Aug. 4.

Kawecki, Henry C., Temple, Pa., assignor to The Beryllium Corporation. Preparing beryllium fluoride. 2,647,818, Aug. 4.

Kawecki, Henry C., Temple, Pa., assignor to The Beryllium Corporation. Preparing beryllium oxide. 2,647,821, Aug. 4.

Kearney, James R., Corporation, assignee: *See*—
Graham, Roy G., and Tallman.

Keeler Brass Company, assignee: *See*—
Jakeway, Gerald V.

Keese, Beverly W., Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle drive mechanism. 2,647,597, Aug. 4.

Keim, Donald B., Syracuse, N. Y., assignor to General Electric Company. Nonslip pulley drive. 2,647,409, Aug. 4.

Kelper, Francis P., Cazenuvia, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Washing machine. 2,647,386, Aug. 4.

Keller, Dan W., and V. E. Rimsha, assignors to The Dole Valve Company, Chicago, Ill. Mixing valve. 2,647,692, Aug. 4.

Kellogg, M. W., Company, The, assignee: *See*—
Dreibelbis, Logan L.

Kellogg Switchboard and Supply Company, assignee: *See*—
Saunders, Norman H., Hackett, and Bellamy.

Kelly, Earl M., Millbrae, Calif., assignor to Process Engineers Incorporated. Clarification. 2,647,869, Aug. 4.

Kelly, Earl M., Burlingame, and A. M. Kivari, Los Angeles, assignors to Process Engineers Incorporated, San Francisco, Calif. Clarification. 2,647,870, Aug. 4.

Kelsey-Hayes Wheel Company, assignee: *See*—
Kerr, James M.

Kemmer, Frank R., Larchmont, N. Y. Calcination. 2,647,739, Aug. 4.

Kenney, Harold E., and A. H. Seidler, Urbana, Ill. Football target game apparatus. 2,647,747, Aug. 4.

Kentz, Fred E., Denver, Colo. Trailer hitch. 2,647,761, Aug. 4.

Kernodle, George H., Washington, D. C. Single arm adjustable support for lamp shades and switches. 2,647,986, Aug. 4.

Kerr, James M., assignor to Kelsey-Haynes Wheel Company, Detroit, Mich. Brake drum lubricant deflector. 2,647,589, Aug. 4.

Kerstetter, Donald R., Emporium, Pa., assignor to Sylvania Electric Products Inc. Shield structure and filament mount for electron discharge devices. 2,648,026, Aug. 4.

Keuffel, Carl W., Bernardsville, and A. L. Baker, Denville, assignors to Keuffel & Esser Company, Hoboken, N. J. Theodolite. 2,647,320, Aug. 4.

Keuffel & Esser Company, assignee: *See*—
Keuffel, Carl W., and Baker.

Kiekhaefer, Elmer C., Cedarburg, Wis. Sealed condenser and shield for spark plugs. 2,648,030, Aug. 4.

Kilns, Vernon, assignee: *See*—
Martin, Ralph H.

Kimball, James R., assignee: *See*—
Simmons, Howard A.

Kimbro, Rushton O.: *See*—
Spurgeon, Samuel J., and Kimbro.

Kinney, S. P., Engineers, Inc., assignee: *See*—
Kinney, Selwyne P.

Kinney, Selwyne P., Crafton, assignor to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Deflector vane structure for spray nozzles. 2,647,799, Aug. 4.

Kirk, Melvin B., Liberal, Kans., assignor to The Hallen Company, Inc., Long Island City, N. Y. Horizontal earth boring machine. 2,647,726, Aug. 4.

Kirkby, Norman O.: *See*—
Gillick, Laurance H., Russell, and Kirkby.

Kivari, Arthur M.: *See*—
Kelly, Earl M., and Kivari.

Klein, Norman E., Garden City, and J. W. Wright, Manhasset, N. Y., assignors to the United States of America as represented by the Secretary of the Navy. Orientation system. 2,648,042, Aug. 4.

Kling, Robert W., assignor to Athey Products Corporation, Chicago, Ill. Adjustable shaker screen drive mechanism. 2,647,630, Aug. 4.

Klingler, Hughlin E., Elkhart, Ind. Mixing valve. 2,647,537, Aug. 4.

Knight, Lorne F., Toronto, Ontario, and A. P. Weston, Ontario, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Method and apparatus for forming large upsets. 2,647,979, Aug. 4.

Knowles, John H., Larchmont, and W. G. Sutcliffe, Harrison, N. Y., assignors to The Dorr Company, Stamford, Conn. Agitator device for digester tanks. 2,647,733, Aug. 4.

Knuth, Harvey G., Elgin, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Latch mechanism. 2,647,780, Aug. 4.

Koch, Hans, Munich-Pasing, Germany. Device for dividing fruits. 2,647,549, Aug. 4.

Kochle, Joseph E., Carteret, N. J., assignor to Foster-Wheeler Corporation, New York, N. Y. Apparatus for the control of distillation reflux. 2,647,863, Aug. 4.

Koehring Company, assignee: *See*—
Brugger, Ervin A.

Koester, Ernest H., Gaylord, Minn. Tire spreader. 2,647,722, Aug. 4.

Kosash, John, assignor to Lorain Industries, Inc., Lorain, Ohio. Folding rack. 2,647,642, Aug. 4.

Kosatka, Thomas O., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. One-piece sealing device. 2,647,777, Aug. 4.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Hydroxy ether sulfates having high surface-activity. 2,647,913, Aug. 4.

Krnus, Raymond M., Cleveland, assignor to The Dunham Company, Berea, Ohio. Disk harrow gang and bearing. 2,647,805, Aug. 4.

Kreeger, Frederick R., Shaker Heights, Ohio. Baby Stroller. 2,647,757, Aug. 4.

Kreisler, Herman, New York, N. Y. Electrical insulator. 2,647,943, Aug. 4.

Kriegel, Bernard, San Francisco, assignor to Baker Oil Tools, Inc., Vernon, Calif. Pressure compensated valve device for well tools. 2,647,583, Aug. 4.

Kroll, Cornelius, assignee: *See*—
Alimanestiano, Mihai.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Dispenser for pressure-sensitive tape. 2,647,746, Aug. 4.

Krupp, Carroll P., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Diaphragm for storage tanks. 2,647,657, Aug. 4.

Kucera, Joseph B., Traer, Iowa. Plant spraying machine. 2,647,795, Aug. 4.

Kyker, Pauline H.: *See*—
Hudzlak, Alberta I., and Kyker.

La Brie, Laurent J., Rye, and J. E. Fenn, Oceanside, assignors to Oxy-Dry Sprayer Corporation, New York, N. Y. Antioffset powder and preparing same. 2,647,892, Aug. 4.

Lamberty, Frank J., Fox Lake, Ill. Radial back-off process and apparatus for grinders. 2,647,352, Aug. 4.

Lamounette, Robert, New York, N. Y. Adjustable plate stand. 2,647,381, Aug. 4.

Lance, Orville P., assignor to Deere & Company, Moline, Ill. Article-handling machine. 2,647,616, Aug. 4.

Landry, Arthur B., Royal Oak, and W. H. Martin, Plymouth, assignors to V-Seal Corporation, Royal Oak, Mich. Storm window and screen frame and assembly. 2,647,571, Aug. 4.

Landry, William J., Blue Springs, assignor to J. C. Hockery, Kansas City, Mo., trustee for H. J. and F. L. Talge. Can opener. 2,647,306, Aug. 4.

Landry, William J., Blue Springs, assignor to J. C. Hockery, Kansas City, Mo., trustee for H. J. and F. L. Talge. Can opener cutter assembly. 2,647,307, Aug. 4.

Lang, Heinrich, Munich, Germany. Valve gear for Diesel engines. 2,647,500, Aug. 4.

Lang, Robert A., Camillus, and R. M. Savasky, Syracuse, N. Y., assignors to General Electric Company. Intermediate frequency transformer assembly. 2,648,031, Aug. 4.

Lapsley, Robert, assignor to Clark Equipment Company, Buchanan, Mich. Transmission. 2,647,413, Aug. 4.

Lardé, Raymond, and M. Pesez, assignors to Les Laboratoires Francais de Chimiotheraple, Paris, France. Injectable solution of salt of para-aminosalicylic acid. 2,647,853, Aug. 4.

Larson, Raymond T.: *See*—
Dahlberg, Arnold R., Larson, and Chapman.

Lathrop, Harvey, Forest Hills, N. Y. Dispensing spool of adhesive tape and supporting enclosuce therefor. 2,647,700, Aug. 4.

Launius, Carl E., and H. L. Brewer, East St. Louis, Ill. Glassware lehr loader. 2,647,613, Aug. 4.

La Zerte, James D., St. Paul, W. H. Pearlson, Bald Eagle, White Bear Township, Ramsey County, and E. A. Kauck, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Making of RrBr from RrCOOH. 2,647,933, Aug. 4.

League, George F., Greenville, S. C. Signaling device for looms and the like. 2,647,486, Aug. 4.

Leduc, René, Toulouse, France. Combustion chamber for fluid fuel burning in an air stream of high velocity. 2,647,369, Aug. 4.

Lee, Eva L., Hamilton, Ohio. File guide. 2,647,520, Aug. 4.

Lee, Jason D., Salem, Oreg. Rocking support. 2,647,268, Aug. 4.

Lee, Maz M., Washington, D. C. Promoting polymerization. 2,647,878, Aug. 4.

Leet, Jack M., Flint, assignor to General Motors Corporation, Detroit, Mich. Filter. 2,647,637, Aug. 4.





Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Manufacture of V-belts. 2,647,280, Aug. 4.

Leland-Gifford Company, assignee: *See*—
Hirvonen, Eric J.

Lempco Products, Inc., assignee: *See*—
Blazek, John Y.

Les Laboratoires Francais de Chimiotheraple, assignee: *See*—
Lardé, Raymond, and Pesex.

Levenson, Nathan, Hartford, Conn. Hose supporter. 2,647,265, Aug. 4.

Levine, Edward P., assignee: *See*—
Campbell, Robert C.

Levine, Paul, Jamaica, N. Y. Drapery hook. 2,647,574, Aug. 4.

Lewis, Warren J., assignor to The Ohio Brass Company, Mansfield, Ohio. Expansion bolt. 2,647,431, Aug. 4.

Lilly, Eli, and Company, assignee: *See*—
Carney, Thomas P.

Linker, Jay B., assignee: *See*—
Stallings, Jay W.

Linn, Carl B.: *See*—
Wackher, Richard C., and Linn.

Lissance, Alexander: *See*—
Lisslansky, Alexander.

Lisslansky, Alexander, now by change of name A. Lissance, New York, N. Y., assignor to International Mutoscope Corporation, Long Island, N. Y. Sound recording and reproducing apparatus. 2,647,751, Aug. 4.

Little, Floyd M., Campbell, Calif. Cabinet pull template. 2,647,325, Aug. 4.

Livezey, William G.: *See*—
Storer, John E., Jr., and Livezey.

Löbbe, Armin D., administrator: *See*—
Loebbe, Wilhelm.

Locke, Burton H., Framingham, Mass. Bottle holder and carrier. 2,647,786, Aug. 4.

Locke, Burton H., Framingham, Mass. Bottle holder and carrier. 2,647,787, Aug. 4.

Lockman, Carl J., Stockholm, Sweden, assignor to Rosenblad Corporation, New York, N. Y. Heat-treating a fluent substance. 2,647,570, Aug. 4.

Loebbe, Wilhelm, deceased, by A. D. Löbbe, administrator, Oberaden, Germany. Means for removing pit props. 2,647,736, Aug. 4.

Lombard, Adrian A., Allestree, assignor to Rolls-Royce Limited, Derby, England. Gas turbine engine. 2,647,684, Aug. 4.

Lone Star Gas Company, assignee: *See*—
Martin, James W.

Lorain Industries, Inc., assignee: *See*—
Kosash, Johan.

Lotthammer, Eric K.: *See*—
Brayman, George D., and Lotthammer.

Ludlow, Edmund, assignor to Arvin Industries, Inc., Columbus, Ind. Radiator core construction. 2,647,731, Aug. 4.

Luke, Albert R. J., assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Pickup baler. 2,647,355, Aug. 4.

Lund, Arthur D., Minneapolis, Minn., assignor to Solar Corporation, Milwaukee, Wis. Clothes-washing machine. 2,647,387, Aug. 4.

Lunde, Einar O., Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y. Control mechanism for pneumatically operated railway dump cars. 2,647,471, Aug. 4.

Lunde, Einar O., Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y. Dump car door control means. 2,647,472, Aug. 4.

Lunde, Einar O., Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y. Car roof hatch cover operating mechanism. 2,647,473, Aug. 4.

Lunde, Einar O., Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y. Directional valve. 2,647,536, Aug. 4.

Lützelschwab, Ernst, Basel, Switzerland. Collapsible trunk. 2,647,594, Aug. 4.

Lycan, Charles L., Decatur, Ill. Paint spraying nozzle. 2,647,801, Aug. 4.

Lyon Metal Products, Incorporated, assignee: *See*—
Knuth, Harvey G.

Mabry, Forrest S., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency generator. 2,648,006, Aug. 4.

Macan, Albert L., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Bell ringing apparatus. 2,647,487, Aug. 4.

Machlett Laboratories, Incorporated, assignee: *See*—
Agule, George J.

MacNamara, Clifford J., Dover, assignor to Stapling Machines Co., Rockaway, N. J. Apparatus for orienting notched cleats. 2,647,614, Aug. 4.

MacVeigh, James, New York; N. Y., assignor to Patentes Talgo, S. A., Madrid, Spain. Axle mounting. 2,647,470, Aug. 4.

Magerlein, Barney J.: *See*—
Weisblat, David L. and Magerlein.

Magnuson, Harry E., Worcester, and W. J. Moren, Auburn, Mass. Punch press. 2,647,552, Aug. 4.

Magor Car Corporation, assignee: *See*—
Lunde, Einar O.

Mahoney, Robert F., Milford, Conn. Telephone handset locking clip. 2,647,959, Aug. 4.

Mairs, Thomas G.: *See*—
Schilling, Paul A., Mairs, and Baird.

Mallck, Franklin S., Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Electromagnetically operated friction clutch. 2,647,601, Aug. 4.

Mallinckrodt, Charles O., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor circuit. 2,647,957, Aug. 4.

Manning, Edward M., assignor to Manning Radio Limited, Toronto, Ontario, Canada. Record turntable drive assembly. 2,647,408, Aug. 4.

Manning Radio Limited, assignee: *See*—
Manning, Edward M.

Marathon Coal Bit Company, Inc., assignee: *See*—
Stephens, Henry M.

Marcalns, Nicholas, West Englewood, N. J. Production of short paper rolls from long paper rolls. 2,647,576, Aug. 4.

Marcoz, Jean A. E., Ruell-Malmaison, France. Electric switch. 2,647,969, Aug. 4.

Margulis, Joseph M., Philadelphia, Pa., assignor to Jiffy Enterprises, Inc. Wall supported hanger. 2,647,711, Aug. 4.

Mariaic, Milton M., Northfield, Ill., assignor to Socony-Vacuum Oil Company, Incorporated. Preparing an inorganic oxide gel. 2,647,875, Aug. 4.

Martin, James W., Denver, Colo., assignor to Lone Star Gas Company, Dallas, Tex. Vent protecting and draft equalizing device. 2,647,477, Aug. 4.

Martin, Ralph H., assignor to V. Kilns, Los Angeles, Calif. Apparatus for pressing print tissue onto articles. 2,647,337, Aug. 4.

Martin, Warren H.: *See*—
Landry, Arthur B., and Martin.

Marvel, Andrew, Caldwell, N. J. Balance testing device. 2,647,398, Aug. 4.

Marx, Louis, & Company, Inc., assignee: *See*—
Carver, Richard N.

Mason, George W., and B. D. Gee, Otlaville, Mich. Dispensing device. 2,647,625, Aug. 4.

Massey-Harris Co. Ltd., assignee: *See*—
Luke, Albert R. J.
Knight, Lorne F., and Pitt.

Masur, Paul J.: *See*—
McGauley, Patrick J., and Masur.

Mathison, Theodore M., Seattle, Wash., assignor to Boeing Airplane Company. Locking device for indicating and control apparatus. 2,647,484, Aug. 4.

Matson, William U., Takoma Park, and W. K. Barrett, West Beach, Md., assignors to Dayton Aircraft Products, Inc., Dayton, Ohio. Antenna mast. 2,647,941, Aug. 4.

Matthews, John B., and T. B. Grimshaw, Cheshire, England, assignors to Shell Development Company, San Francisco, Calif. Lubricating compositions. 2,647,873, Aug. 4.

Mattoz, Roy L., trustee, assignee: *See*—
Hernett, Willis J.

Maurer, Edwin R., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Synchronized centrifugal clutch. 2,647,602, Aug. 4.

Maxwell, William A.: *See*—
Wright, John G., Toney, Watkins, Sudan, and Maxwell.

May, Thomas L.: *See*—
Williams, John M., and May.

Mayes, Fred M.: *See*—
Johnson, Ford L., and Mayes.

Maynard, Onno L., Portland, Oreg. Trash moving fork for tractors. 2,647,649, Aug. 4.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McBee Company, The, assignee: *See*—
Connor, Roger, and Hoge.
Dutro, Orville, and Nametb.

McCann, William J., Berea, Ohio. Means for preventing ice formation in jet propulsion and gas turbine engines. 2,647,366, Aug. 4.

McClure, Charles A., assignee: *See*—
Dilsera, Samuel J.

McCulston, Tommy J., Euclid, assignor to Precision Rubber Products Corporation, Dayton, Ohio. Sealing assembly. 2,647,810, Aug. 4.

McGauley, Patrick J.: *See*—
Allen, Louis N., Jr., McGauley, and Roberts.

McGauley, Patrick J., Glen Cove, assignor to Chemical Construction Corporation, New York, N. Y. Copper, cobalt, and ammonium sulfate recovery from mineral leach liquors. 2,647,819, Aug. 4.

McGauley, Patrick J., Glen Cove, assignor to Chemical Construction Corporation, New York, N. Y. Recovery of cu and ni from flotation concentrate. 2,647,827, Aug. 4.

McGauley, Patrick J., Glen Cove, assignor to Chemical Construction Corporation, New York, N. Y. Recovery of ni from ammonia liquors. 2,647,828, Aug. 4.

McGauley, Patrick J., Glen Cove, N. Y., and P. J. Masur, Sayreville, N. J., assignors to Chemical Construction Corporation, New York, N. Y. Decomposition of copper scrap and alloys with copper ammonium carbontae solutions. 2,647,829, Aug. 4.

McInerney, James L., Grand Rapids, Mich. Spring loading machine. 2,647,671, Aug. 4.
McLachlan, Charles G., Noranda, Quebec, Canada. Idler mechanism for conveyer belts. 2,647,618, Aug. 4.
McLaughlin, Ira J., Manistique, Mich. Knockdown bunk bed. 2,647,267, Aug. 4.
McLaughlin, Kenneth M.: *See*—
Prysiak, Nicholas E., and McLaughlin.
McNally, John M., Newington, assignor to Colt's Manufacturing Company, Hartford, Conn. Hammer shroud for revolvers. 2,647,338, Aug. 4.
Mead Corporation, The, assignee: *See*—
Griesheimer, Rudolph N., and Hydell.
Mediano Capdevila, Gonzalo, Barcelona, Spain, assignor to Coturno, S. A., Caracas, Venezuela. Automatic machine for vulcanizing rubber soles on boots and shoes. 2,647,281, Aug. 4.
Meðna S. A., assignee: *See*—
Court, Jean.
Meier, Donald R., Erie, Pa., assignor to General Electric Company. Dynamoelectric machine member. 2,648,018, Aug. 4.
Mekelburg, Earl F., Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich. Control center. 2,648,032, Aug. 4.
Mergenthaler Linotype Company, assignee: *See*—
Hilipman, Paul, and Hahn.
Merkel, Alfred T., Baltimore, Md., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Switching apparatus. 2,647,964, Aug. 4.
Mettetal, Donald, Jr., assignor to Truck Service, Inc., Chicago, Ill. Saddle mount. 2,647,760, Aug. 4.
Meyer, Robert W., Elyria, assignor to The Guarantee Specialty Manufacturing Co., Cleveland, Ohio. Venetian blind tape retaining pin. 2,647,573, Aug. 4.
Meyers, Irving J., Richmond, Va. Supplementary cover to protect luggage. 2,647,595, Aug. 4.
Michie, John S., assignor to Reeves Pulley Company, Columbus, Ind. Constant tension means with mechanoelectrical torque-responsive control. 2,647,965, Aug. 4.
Miles Laboratories, Inc., assignee: *See*—
Stauffer, Dale A., and Fancher.
Miller, Carl E., Columbus, Ohio, assignor, by mesne assignments, to Bituminous Coal Research, Inc., Pittsburgh, Pa. Boiler tube fly ash collector. 2,647,588, Aug. 4.
Miller, Ernest B., Houston, Tex., assignor to Jefferson Lake Sulphur Company, New Orleans, La. Water heating system. 2,647,370, Aug. 4.
Miller, George E., Sacramento, assignor to E. Clemens Horst Company, San Francisco, Calif. Hop picking machine. 2,647,521, Aug. 4.
Miller Pottery Engineering Company, assignee: *See*—
Ryckman, George E.
Milne, Lorus J., Durham, N. H., A. J. Rawson, Rocky Springs, Md., and H. K. Hartline, Media, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Adjustable headrest. 2,647,438, Aug. 4.
Miner, W. H., Inc., assignee: *See*—
Dentler, Arnold E.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Demay, Peter P.
Harrison, Thomas R.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Douglas, Donald J., Palmquist, and Grove.
La Zerte, James D., Pearlson, and Kauck.
Mirus, Ferdinand: *See*—
Zobel, Theodor W., and Mirus.
Mizutani, Kinichi, Yokohama, Japan. Thermal responsive automatic switch. 2,647,971, Aug. 4.
Modern Plastic Machinery Corp., assignee: *See*—
Tornberg, Henning T.
Moffitt, Alva V., Arkansas City, Kans. Attachment for converting sleds to wheeled vehicles. 2,647,759, Aug. 4.
Monitor Process Corporation, assignee: *See*—
Coates, Henry T.
Hopwood, John A.
Monsanto Chemical Company, assignee: *See*—
Beaver, David J.
Dazzi, Joachim.
Kosmin, Milton.
Patrick, Tracy M., Jr.
Patrick, Tracy M., Jr., and Gluesenkamp.
Richardson, George A.
Seymour, Raymond B.
Sibley, Robert L.
Moore, Charles D., Malden, assignor to Thomson Electric Welder Company, Lynn, Mass. Platen control mechanism for welding machines. 2,647,980, Aug. 4.
Moore, Lee C., Corporation, assignee: *See*—
Woolslayer, Homer J., and Iddings.
Moore, William E., assignor to Delaware Engineering Corporation, Pittsburgh, Pa. Electrode clamp. 2,647,936, Aug. 4.
Moore, William T., Elmhurst, Ill., assignor to The Babcock & Wilcox Company, New York, N. Y. Vapor generator. 2,647,495, Aug. 4.
Moot, Samuel K., Pampa, Tex. Low tire indicator switch. 2,647,967, Aug. 4.
Moren, Walter J.: *See*—
Magnuson, Harry E., and Moren.
Morse, Ted B., Evanston, Ill., and J. F. Yeager, Cochituate, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Antenna sector scan control. 2,648,038, Aug. 4.
Mortensen, Svend O., assignor to The Cromma Company, Copenhagen, Denmark. Self-adjusting wrench for nuts and like polygonal objects. 2,647,425, Aug. 4.
Mosher, Edward, Detroit, Mich. Tube shield for spray guns. 2,647,793, Aug. 4.
Moss, Abraham Z., Santa Monica, Calif. Shower bath utility. 2,647,797, Aug. 4.
Motor Wheel Corporation, assignee: *See*—
Horn, Harry J.
Mueller, William A., and A. R. and R. B. West, Decatur, Ill. Spray rig supporting frame for farm tractors. 2,647,794, Aug. 4.
Murino, Matthew, New York, N. Y. Presser foot gauge. 2,647,480, Aug. 4.
Murphy, Eugene E., Chicago, Ill. Settable printing means in accounting machines. 2,647,459, Aug. 4.
Myers, Elman B., Pompton Plains, N. J. Reso-jet motor. 2,647,365, Aug. 4.
Nachman, Jack M., assignor to Peerless Products, Inc., Kansas City, Mo. Window awning. 2,647,290, Aug. 4.
Nafe, James E., Sr., Charleston, W. Va., and C. C. Christy, Pine Hill, N. J., said Christy assignor to said Nafe. Dual control attachment for automobiles. 2,647,414, Aug. 4.
Naillon, Jacob D., Oakland, Calif. Telescoping carrier for handling bricks and the like. 2,647,646, Aug. 4.
Nameth, James F.: *See*—
Dutro, Orville V., and Nameth.
Napiecinski, Peter A., Wauwatosa, Wis. Ladder. 2,647,676, Aug. 4.
Nash, Floyd M., Kensington, Calif., assignor to Jacuzzi Bros., Incorporated. Diaphragm-type aircharger. 2,647,466, Aug. 4.
National Cash Register Company, The, assignee: *See*—
Christian, Raymond A., Strachan, and Williams.
Goodbar, Mayo A., and Pratt.
Robinson, Robert R.
Williams, Samuel B.
National Plastic Products Company, The, assignee: *See*—
Samler, Lee F., and Genovese.
National Research Development Corporation, assignee: *See*—
Parker, Eric, Wallis, and Woroncow.
National Steel Corporation, assignee: *See*—
Cover, Martin L.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Chu, Lan J.
Eaton, James E.
Hollingsworth, Lowell M.
Klein, Norman E., and Wright.
Malick, Franklin S.
Merkel, Alfred T.
Milne, Lorus J., Rawson, and Hartline.
Morse, Ted B., and Yeager.
Norris, Ralph F., and Avery.
Rowe, Delman E.
Rowland, Howard J.
Schmitt, Otto H.
Smullin, Louis D.
Tatel, Howard E., and Trainer.
Walton, Cecil E.
Watson, Robert B.
Weiss, Herbert G.
White, Milton G.
Yeater, Max L.
Neal, Ernest C., assignor of one-half to E. Barndell, Chicago, Ill. Hand tool. 2,647,312, Aug. 4.
Negretti & Zambra Limited, assignee: *See*—
Ibbott, Harold W.
Nemeth, Otto R., Los Angeles, Calif. Motion-picture projector. 2,647,435, Aug. 4.
Newberry, Sterling P., Jr., Schenectady, N. Y., assignor to General Electric Company. Vacuum seal. 2,647,774, Aug. 4.
Newbill, Robert W., Jr., San Fernando, Calif., assignor to North American Aviation, Inc. Test pad. 2,647,399, Aug. 4.
Newman, Edwin B., and J. Volkmann, Cambridge, Mass., assignors to the United States of America as represented by the Office of Scientific Research and Development. Flexible microphone suspension. 2,647,956, Aug. 4.
News Syndicate Co., Inc., assignee: *See*—
Richardson, Henry M., and Baumrucker.
Ney, William O., Jr., Somerset Center, Mass., assignor to General Aniline & Film Corporation, New York, N. Y. Purification of α-chloroacrylic acid esters. 2,647,922, Aug. 4.
Nicholas, Andrew J., Farmington, Conn. Household carbonator. 2,647,734, Aug. 4.
Nichols, Charles A., C. L. Clevenger, and F. L. Zion, Anderson, and W. A. Fletcher, Daleville, Ind., assignors to General Motors Corporation, Detroit, Mich. Commutator for dynamoelectric machines. 2,648,022, Aug. 4.
Nichols, Edward C., Upton, assignor to Draper Corporation, Hopedale, Mass. Leno weaving. 2,647,541, Aug. 4.



Nitzsche, Siegfried, Burghausen, Upper Bavaria, assignor, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany. Production of silicon lacquers. 2,647,880, Aug. 4.
Nitzsche, Siegfried, and E. Pirson, Burghausen, Oberbayern, assignors, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany. Production of methylhydrogenpolysiloxane. 2,647,911, Aug. 4.
Noble, Wiley B., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 2,647,804, Aug. 4.
Noë, Alfons F.: *See*—
Pfannmuller, Julius W., and Noë.
Norris, Ralph F., Madison, Wis., and R. D. Avery, Mineola, N. Y., assignors to the United States of America as represented by the Secretary of the Navy. Shock mounting. 2,647,717, Aug. 4.
Norris, Robert L., Jr., Sacramento, Calif. Lock for sectional, folding table tops. 2,647,811, Aug. 4.
Norteman, Samuel L.: *See*—
Cook, Nelson E., and Norteman.
North American Aviation, Inc., assignee: *See*—
Gaines, James W.
Newbill, Robert W., Jr.
Norton Company, assignee: *See*—
Hill, Olva E.
Sliven, Herbert A.
Nyhagen, Barney R., New York, N. Y. Violin mute and resin holder. 2,647,428, Aug. 4.
Nyhagen, Barney R., New York, N. Y. Wristwatch strap. 2,647,668, Aug. 4.
O. E. M. Corporation, assignee: *See*—
Baraeh, Edmund.
Oberman, Roelof M. M., The Hague, Netherlands. Circuit for obtaining electric bridge equilibrium. 2,648,057, Aug. 4.
Oehler, René, Rockville, and J. R. Kanagy, Silver Spring, Md. Impregnation of leather. 2,647,840, Aug. 4.
Oehler, René, Rockville, Md. Impregnating leather with rubber compositions. 2,647,844, Aug. 4.
Oehler, William P., assignor to Deere & Company, Moline, Ill. Planter constructed to accommodate various types of hoppers. 2,647,662, Aug. 4.
Oestrich, Hermann, assignee: *See*—
Triebbnigg, Heinrich, and David.
Office of Scientific Research and Development, United States of America as represented by the, assignee: *See*—
Newman, Edwin B., and Volkmann.
Ohio Brass Company, The, assignee: *See*—
Lewis, Warren J.
Ohio Crankshaft Company, The, assignee: *See*—
Kaczor, Edward J., and Schwan.
Ohlsson, Sven O., assignor to Aktiebolaget Addo, Malmo, Sweden. Envelope opener. 2,647,313, Aug. 4.
Olshefski, Anthony J., Kulpmont, Pa. Folding ironing board. 2,647,333, Aug. 4.
Olson, Douglas J., Minneapolis, Minn. Holder for paper plates and the like. 2,647,678, Aug. 4.
O'Neill, Edward M., assignor to Union Machine Company, San Francisco, Calif. Apparatus for proportioning liquid mixtures. 2,647,485, Aug. 4.
Opel, Lawrence G., Akron, and W. R. Harding, East Aurora, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Voltage regulating generator. 2,648,044, Aug. 4.
Orr, Carroll E., Westfield, assignor to Syncro Machine Company, Perth Amboy, N. J. Means for locking reels on arbors. 2,647,775, Aug. 4.
Ortendahl, David, West Roxbury, assignor to Farrington Manufacturing Company, Boston, Mass. Box with rotating article support. 2,647,623, Aug. 4.
Osterfeld, George J., Cincinnati, assignor of one-half to T. S. Hogan, Loveland, Ohio. Gravel spreader. 2,647,448, Aug. 4.
Ostrander, Robert F., Woodbridge, Conn. Time-service control apparatus for auto service stations and the like. 2,647,328, Aug. 4.
Oxy-Dry Sprayer Corporation, assignee: *See*—
La Brie, Laurent J., and Fenn.
Pacific Electric Manufacturing Corp., assignee: *See*—
Umahrey, Donald M.
Packard Motor Car Company, assignee: *See*—
Srogi, Ladislaw G.
Ware, Marsden.
Page, Anthony J.: *See*—
Aller, Willis F., and Page.
Page, John S., assignor to Page Oil Tools Inc., Long Beach, Calif. Combined tubing drain and jar. 2,647,540, Aug. 4.
Page Oil Tools Inc., assignee: *See*—
Page, John S.
Palmatier, Clifford C., and F. L. Wehren, Bozeman, Mont. Necktie finisher. 2,647,664, Aug. 4.
Palmquist, Philip V.: *See*—
Douglas, Donald J., Palmquist, and Grove.
Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Bushing pocket with oil ports. 2,647,939, Aug. 4.
Panfil, Conrad J., Sr., assignor to The Heinn Company, Milwaukee, Wis. Binder follower. 2,647,518, Aug. 4.
Paoli, Stephen A., Rockford, Ill. Seasoning dispenser. 2,647,681, Aug. 4.
Parker, Eric, P. R. Wallis, and A. Woroncow, Haslemere, assignors to National Research Development Corporation, London, England. Cathode-ray tube display system. 2,648,061, Aug. 4.
Parker, George E.: *See*—
Whitehead, Willard J., and Parker.
Parnell, William S.: *See*—
Taylor, John W., Jr., and Parnell.
Parsons, Wharton A., Glendale, and R. E. Busch, El Monte, assignors to Clary Multiplier Corporation, San Gabriel, Calif. Calculating machine. 2,647,687, Aug. 4.
Patentes Talgo, S. A., assignee: *See*—
MacVeigh, James.
Patrick, Tracy M., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Saturated carbocyclic oxoesters and their preparation. 2,647,918, Aug. 4.
Patrick, Tracy M., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Oxy-oxoesters and acids and their preparation. 2,647,919, Aug. 4.
Patrick, Tracy M., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Telomeric polycarbocyclic oxoesters. 2,647,921, Aug. 4.
Patrick, Tracy M., Jr., Dayton, and E. W. Gluesenkamp, Centerville, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparing diethyl benzoylsuccinate. 2,647,917, Aug. 4.
Patrick, Tracy M., Jr., Dayton, and E. W. Gluesenkamp, Centerville, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Telomeric polyalkyl oxoesters. 2,647,920, Aug. 4.
Patten, Stanley H., Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Photographic film elements. 2,647,836, Aug. 4.
Patterson, Dustin D., Darlington, Pa. Lever actuated tire bead loosening tool. 2,647,565, Aug. 4.
Patterson, Frederick L., Sharon, Pa. Adjustable die for making transformer core laminations. 2,647,575, Aug. 4.
Patterson, Vivian A., Opelousas, La. Doll construction. 2,647,342, Aug. 4.
Paulson, Ernest, Chicago, Ill. Bicycle lock. 2,647,390, Aug. 4.
Paxson, Gordon D., El Cerrito, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Method and apparatus for determining frequency. 2,647,998, Aug. 4.
Peabody Engineering Corporation, assignee: *See*—
Sloan, Stephen A.
Pearlson, Wilbur H.: *See*—
La Zerte, James D., Pearlson, and Kauck.
Peddicord, Haskell J.: *See*—
Blinka, Joseph, and Peddicord.
Peerless Products, Inc., assignee: *See*—
Nachman, Jack M.
Pelavin, Milton H., Brooklyn, assignor to Technicon Cardiograph Corporation, New York, N. Y. Esophageal switch for electrocardiograph apparatus. 2,647,508, Aug. 4.
Perforating Guns Atlas Corporation, assignee: *See*—
Scherbatskoy, Serge A.
Perkins, Corles M., Rutherford, assignor to Bendix Aviation Corporation, Teterboro, N. J. Altitude sensor. 2,648,041, Aug. 4.
Perl, Martin L., and J. R. Elliott, Schenectady, N. Y., assignors to General Electric Company. Preparation of luminescent screens. 2,647,841, Aug. 4.
Permacel Tape Corporation, assignee: *See*—
Bemmels, Cyrus W.
Permafuse Corp., The, assignee: *See*—
Tilden, Sydney G.
Perry, Manly M.: *See*—
Hove, Leland H., Hankes, and Perry.
Pesez, Maurice: *See*—
Lardé, Raymond, and Pesez.
Pestarini, Joseph M., New York, N. Y. Power system for a plurality of motors. 2,648,039, Aug. 4.
Peterson, Glen, Tulsa, Okla. Apparatus for connecting circuit elements. 2,647,990, Aug. 4.
Peterson, Walter H., Point Richmond, assignor to Shell Development Company, San Francisco, Calif. Grease composition. 2,647,872, Aug. 4.
Petrone, James, assignor to Stanley Home Products, Inc., Westfield, Mass. Brush. 2,647,274, Aug. 4.
Pfannmuller, Julius W., North Plainfield, N. J., and A. F. Noë, Staten Island, assignors to Wallerstein Company, Inc., New York, N. Y. Inactivation of enzymes by barium peroxide. 2,647,854, Aug. 4.
Pfau, Julius H., Yonkers, N. Y., assignor to Alexander Smith, Incorporated. Crimping textile fibers. 2,647,285, Aug. 4.
Philco Corporation, assignee: *See*—
Zearfoss, Elmer W., Jr.
Phillips Petroleum Company, assignee: *See*—
Hillyer, John C., and Lee.
Whitney, William B.
Pielstick, Gustav, Saint Germain en Laye, France. Multiple valve cylinder head for internal-combustion engines. 2,647,499, Aug. 4.

Pierce, Alfred F., assignor to American Manufacturing Company, Inc., Tacoma, Wash. Sheet stacking mechanism. 2,647,645, Aug. 4.

Pierce, Fred J. : *See*—
Grunewald, Glen R., and Pierce.

Pierce, John B., Foundation, assignee : *See*—
Da Fano, Ettore.

Pike, Robert D., Greenwich, Conn. Nitric oxide recovery system. 2,647,822, Aug. 4.

Pirson, Ewald : *See*—
Nitzsche, Siegfried, and Pirson.

Pitt, Arnold : *See*—
Knight, Lorne F., and Pitt.

Plank, Charles J., and R. C. Hansford, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Continuous hydrocarbon conversion with a silica-alumina-chromium oxide catalyst. 2,647,860, Aug. 4.

Plastichem Corporation, assignee : *See*—
Twiet, Daniel K.

Platt Brothers and Company Limited, assignee : *See*—
Bassindale, Isaac B.

Polvilliers, Georges J., Neuilly-sur-Seine, France. Apparatus for the restitution of images. 2,647,317, Aug. 4.

Polite, Joseph, Royal Oak, Mich. Hat well. 2,647,665, Aug. 4.

Pollock, Frank S., Jr., Martinsville, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Tandem chuck wind-up. 2,647,697, Aug. 4.

Pollock, Robert K., Mansfield, and J. M. Gapstur, Ashland, Ohio, assignors to The Professional Supply Inc. Inflatable dam for arresting bleeding in the internal body cavities. 2,647,515, Aug. 4.

Popick, Aaron, Portland, Oreg. Feed compressing machine. 2,647,474, Aug. 4.

Potts, Ernest L. : *See*—
Brown, Cicero C., and Potts.

Powelson, John C. : *See*—
Borden, Leland A., and Powelson.

Pratt, Russell G. : *See*—
Goodbar, Mayo A., and Pratt.

Precision Rubber Products Corporation, assignee : *See*—
McCuistion, Tommy J.

Price, William E., Sixes, Oreg. Metal forming and welding machine. 2,647,483, Aug. 4.

Process Engineers Incorporated, assignee : *See*—
Kelly, Earl M.
Kelly, Earl M., and Kivari.

Procter & Gamble Company, The, assignee : *See*—
Blinka, Joseph, and Peddicord.

Professional Supply Inc., The, assignee : *See*—
Pollock, Robert K., and Gapstur.

Pryslak, Nicholas E., Florham Park, and K. M. McLaughlin, Summit, N. J., assignors to Radio Corporation of America. Ultrahigh-frequency electron discharge device. 2,647,298, Aug. 4.

Psarris, Alice, Lowell, Mass. Skid preventer for automobiles. 2,647,779, Aug. 4.

Puerner, Erving A., assignor to Shallcross Controls, Inc., Milwaukee, Wis. Hydraulic servomotor. 2,647,492, Aug. 4.

Purdy, Bruce B., assignor to Appleton Wire Works, Inc., Appleton, Wis. Magnetic shuttle-guiding means. 2,647,542, Aug. 4.

Quear, Eugene C., and W. C. Shaw, Anderson, and J. R. Edwards, Middletown, Ind., assignors to General Motors Corporation, Detroit, Mich. Molding. 2,647,283, Aug. 4.

Rabenda, Edward J., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Record controlled duplicate printing machine. 2,647,460, Aug. 4.

Rabinow, Jacob, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army. Device to resist the disarming of bombs. 2,647,465, Aug. 4.

Rabjohn, Lloyd E., Glendale, Calif. Seal for beverage coolers. 2,647,378, Aug. 4.

Rabkin, William, and L. Baron, New York, assignors to International Mutoscope Corporation, Long Island, N. Y. Framed photographic plates. 2,647,834, Aug. 4.

Radio Corporation of America, assignee : *See*—
Burns, Leslie L., Jr.
Pryslak, Nicholas E., and McLaughlin.
Roberts, Walter van B., and Burns.

Rafferty, Arthur W., Sacramento, Calif. Unloading header fitting and strainer. 2,647,636, Aug. 4.

Ramsay, George D. : *See*—
Burnam, Thompson W., and Ramsay.

Randall, David I., Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Methylated pyrazoleanthronebenzanthrones. 2,647,899, Aug. 4.

Randall, John T., Birmingham, and H. A. H. Boot, London, England, assignors to English Electric Valve Company, Limited. Magnetron. 2,648,028, Aug. 4.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle seat. 2,647,558, Aug. 4.

Rassner, Henry, Union City, assignor to S. Bogad, North Bergen, N. J. Sport shirt having detachable insignia panel. 2,647,261, Aug. 4.

Rawson, Arthur J. : *See*—
Milne, Lorus J., Rawson, and Hartline.

Raytheon Manufacturing Company, assignee : See—
Turner, Edwin E., Jr.

Reed, Gerald M., Santa Monica, Calif. Airplane step. 2,647,677, Aug. 4.

Reed Roller Bit Company, assignee : *See*—
Del'Homme, Daniel L.
Noble, Wiley B.

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Magnesium-alloy-block edge-active driving belt. 2,647,410, Aug. 4.

Reeves Pulley Company, assignee : *See*—
Michie, John S.
Reeves, Paul B.

Rehorn, Miles P., Nashville, Tenn. Molecularly aligned sheet material. 2,647,440, Aug. 4.

Reinhard, Walter J., Westwood, N. J. Extensible tape for joining carpet sections. 2,647,850, Aug. 4.

Research Corporation, assignee : *See*—
Best, Richard L.

Rey-Bellet, Gerald, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Derivatives of tropic acid and the manufacture thereof. 2,647,904, Aug. 4.

Ribarich, Matt J., Jr., Richmond, Calif. Wheel and tire mounting appliance. 2,647,648, Aug. 4.

Rich, Dora M., executrix : *See*—
Rich, George R.

Rich, George R., deceased, Battle Creek, Mich.; D. M. Rich, executrix, assignor to Rich Manufacturing Corporation. Valve assembly. 2,647,501, Aug. 4.

Rich Manufacturing Corporation, assignee : *See*—
Rich, George R.

Richards, Henry R., Buffalo, N. Y. Traction device. 2,647,551, Aug. 4.

Richardson, Edgar C., Wenonah, N. J. Window construction. 2,647,288, Aug. 4.

Richardson, Franklin, Glendale, Calif. Reclining article of furniture. 2,647,559, Aug. 4.

Richardson, George A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of N-carboxyanhydrides of glycine. 2,647,907, Aug. 4.

Richardson, Henry M., Springfield, Mass., and W. Baumrucker, Jr., Stamford, Conn., assignors to News Syndicate Co., Inc., New York, N. Y. Curving a flat molded plastic printing plate. 2,647,284, Aug. 4.

Ridings, Garvice H., Summit, N. J., J. H. Hackenberg, Flushing, and G. B. Worthen, assignors to The Western Union Telegraph Company, New York, N. Y. Facsimile machine and system employing electric stylus transmission and recording. 2,647,945, Aug. 4.

Riley Stoker Corporation, assignee : *See*—
Rogers, Wayne C.

Rimsha, Victor E. : *See*—
Keller, Dan W., and Rimsha.

Roberts, Edward S. : *See*—
Allen, Louis N., Jr., McGauley, and Roberts.

Roberts, Edward S., assignor to Chemical Construction Corporation, New York, N. Y. Precipitation of pure metallic copper from copper-bearing solutions. 2,647,825, Aug. 4.

Roberts, George H., Los Angeles, Calif., assignor by decree of distribution, to V. V. Roberts. Heater for oil and other wells. 2,647,585, Aug. 4.

Roberts, Viola V., assignee : *See*—
Roberts, George H.

Roberts, Walter van B., and L. L. Burns, Jr., Princeton, N. J., assignors to Radio Corporation of America. Electromechanical filter. 2,647,948, Aug. 4.

Robinson, Charles F., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometer. 2,648,009, Aug. 4.

Robinson, James E., Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass. Single carrier tranamission of sound and video signals. 2,647,944, Aug. 4.

Robinson, Richard R : *See*—
Harrison, Geoffrey B., and Robinson.

Robinson, Robert R., assignor to The National Cash Register Company, Dayton, Ohio. Hand stamp. 2,647,461, Aug. 4.

Robinson, Ronald R., Morton, assignor to Caterpillar Tractor Co., Peoria, Ill. Tube closure. 2,647,655, Aug. 4.

Rodanet, Charles H. H., Neuilly-sur-Seine, assignor to Etablissements Ed. Jaeger, Seine, France. Magnetically-acting speedometer. 2,648,019, Aug. 4.

Roe, Arnold : *See*—
Grögl, Max F., and Roe.

Rogers, Wayne C., assignor to Riley Stoker Corporation, Worcester, Mass. Rotor comprising pivoted hammer provided with armored outer portion and plate-shielded inner portion. 2,647,695, Aug. 4.

Roh, Elmer C. : *See*—
Wilsher, Everett A., and Roh.

Rohm & Haas Company, assignee : *See*—
Burton, Charles D.

Roll-Rite Corporation, assignee : *See*—
Christensen, Carl O.

Rolls-Royce Limited, assignee : *See*—
Lombard, Adrian A.

Roofe, Paul G., and F. E. Hoecker, Lawrence, Kans. Apparatus for cutting thin sections. 2,647,439, Aug. 4.

Rosenblad Corporation, assignee : *See*—
Lockman, Carl J.





Rost, Helge F., Djursholm, and P. H. E. Claesson, Jakobsberg, Sweden. System and means for determination of distance and direction. 2,648,062, Aug. 4.

Rowe, Delman E., Washington, D. C., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Power divider. 2,647,953, Aug. 4.

Rowland, Howard J., Brookline, Mass., assignor, by mesne assignments, to United States of Amer.ca as represented by the Secretary of the Navy. Ring type antenna. 2,648,001, Aug. 4.

Royston, Marvin F., Poughkeepsie, N. Y., assignor to Daystrom, Incorporated, Elizabeth, N. J. Reproducer mounting. 2,647,754, Aug. 4.

Ruggles, Donald H., Tulsa, Okla. Covering for awnings and the like. 2,647,292, Aug. 4.

Russell, Edward A. : *See*—
Gillick, Laurance H., Russell, and Kirkby.

Russell, F. C., Company, The, assignee : *See*—
Russell, Frank C., and Ensminger.

Russell, Frank C., and A. A. Ensminger, assignors to The F. C. Russell Company, Cleveland, Ohio. Awning construction. 2,647,291, Aug. 4.

Rutherford, Herbert E., Paterson, N. J. Battery connector. 2,648,053, Aug. 4.

Ryan, Francis B., Charlton, Iowa. Elevatable and tiltable ditching and cable laying machine. 2,647,758, Aug. 4.

Ryan, Walter M., assignor to M. J. Wittall Associates, Inc., Worcester, Mass. Pile fabric with a through-to-the-back bind. 2,647,540, Aug. 4.

Ryckman, George E., Edgewood, assignor to Miller Pottery Engineering Company, Swissvale, Pa. Machine for applying precious metal decorative bands to glass tumblers. 2,647,489, Aug. 4.

Ryzenga, Raymond H., Holland, Mich. Mechanical door mat. 2,647,271, Aug. 4.

Sagner, Walter T., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Carriage drive power control. 2,647,609, Aug. 4.

Salač, Václav, assignor to Československé pivovary, Ilhovary a Konservarny, narodni podnik, Prague, Czechoslovakia. Preparing hops by catalytic isomerization of humulon. 2,647,837, Aug. 4.

Samler, Lee F., Baltimore, and A. L. Genovese, assignors to The National Plastic Products Company, Odenton, Md. Free spinning cap assembly. 2,647,704, Aug. 4.

Sandmoen, Richard, Minneapolis, Minn. Level holder. 2,647,712, Aug. 4.

Sanford, Hugh W., Knoxville, Tenn. Closure cap. 2,647,652, Aug. 4.

Santay Corporation, assignee : *See*—
White, Paul F.

Satteria, Albert G., Jr. : *See*—
Black, Millard S., and Satteria.

Sauer, Charles C., Clarksville, Ind. Printer's gauge. 2,647,326, Aug. 4.

Saunders, Norman, assignor to Trackton Co., Inc., Washington, D. C. Toy car-truck rail aligner. 2,647,468, Aug. 4.

Saunders, Norman, Washington, D. C. Launching platform to be used in connection with toy trains. 2,647,469, Aug. 4.

Saunders, Norman H., Chicago, C. J. Hackett, Oak Park, and J. I. Bellamy, Brookfield, Ill., assignors, by mesne assignments, to Kellogg Switchboard and Supply Company. Multicontact relay. 2,647,961, Aug. 4.

Saunders, Orson V., assignor to General Motors Corporation, Dayton, Ohio. Refrigerator shelf. 2,647,812, Aug. 4.

Savasky, Robert M. : *See*—
Lang, Robert A., and Savasky.

Schaeperklaus, Louis H., Cheviot, Ohio. Determining the specific gravity and water content of concrete aggregates. 2,647,394, Aug. 4.

Schaitegger, Hermann, Flamatt, assignor to Dr. A. Wander A. G., Berne, Switzerland. Production of cholesteryl esters brominated in position 7. 2,647,867, Aug. 4.

Scheele, Charles C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Roller for ironing machines. 2,647,301, Aug. 4.

Scheele, Charles C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Washing machine. 2,647,388, Aug. 4.

Scheele, Charles C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Laundry apparatus. 2,647,632, Aug. 4.

Schenot, Paul F., Castle Shannon, Pa. Holder for steel wool. 2,647,275, Aug. 4.

Scherbatskoy, Serge A., Tulsa, Okla., assignor to Perforating Guns Atlas Corporation, Houston, Tex. Nuclear well logging. 2,648,012, Aug. 4.

Schiff, Sigmund, Cincinnati, Ohio, assignor to the United States of America as represented by the Secretary of War. Gun shell feeding mechanism. 2,647,442, Aug. 4.

Schilling, Arden L., Decatur, Ind. Muting bar for electrical musical instruments. 2,647,430, Aug. 4.

Schilling, Paul A., T. G. Mairs, and J. B. Baird, assignors to Waldorf Paper Products Company, St. Paul, Minn. Cellular case. 2,647,679, Aug. 4.

Schindler, Harold C., Euclid, assignor to The Euclid Road Machinery Co., Cleveland, Ohio. Cylinder and piston construction. 2,647,809, Aug. 4.

Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electric switch contact assembly. 2,647,974, Aug. 4.

Schmidt, Andrew A., assignee : *See*—
Hofar, Charles F.

Schmitt, John A., assignor to The Upjohn Company, Kalamazoo, Mich. Isolation of 2,4-diaminopteridines. 2,647,898, Aug. 4.

Schmitt, Otto H., Mineola, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Transceiver system. 2,648,063, Aug. 4.

Schmitz, Fred W., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Noncorrosive choline chloride composition. 2,647,927, Aug. 4.

Schneider, Edward F., Philadelphia, Pa. Smoking pipe. 2,647,522, Aug. 4.

Schneider, Elmer, Chicago, assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Reversible motor control system. 2,648,040, Aug. 4.

Schroeder, Carl J., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Candlemaking apparatus. 2,647,279, Aug. 4.

Schroeder, Carl J., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Candlemaking apparatus. 2,647,282, Aug. 4.

Schwan, Clarence F. : *See*—
Kaczor, Edward J., and Schwan.

Schwartz, Ralph E., Hollywood, assignor to Vibradamp Corporation, Los Angeles, Calif. Making a fiber glass mat. 2,647,851, Aug. 4.

Schweller, Sylvester M., assignor to General Motors Corporation, Dayton, Ohio. Compressor. 2,647,683, Aug. 4.

Scott, Charles H., South Norwalk, assignor to The Dorr Company, Stamford, Conn. Raking classifier. 2,647,633, Aug. 4.

Sedgwick, Wendell W., assignor to Farrington Manufacturing Company, Boston, Mass. Hinged box with moving article support. 2,647,624, Aug. 4.

Sédille, Marcel H. L., assignor to Societe Ratean (Societe Anonyme), Paris, France. Means for the aerodynamic braking of aircraft. 2,647,367, Aug. 4.

Seidler, Armond H. : *See*—
Kenney, Harold E., and Seidler.

Selvin, Gerald J., Bronx, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Heat sealing apparatus. 2,647,557, Aug. 4.

Seppmann, Alfred B., Mankato, Minn. Connecting rod spreader. 2,647,723, Aug. 4.

Seymour, Raymond B., Allentown, Pa., assignor to Monsanto Chemical Company, St. Louis, Mo. Water-soluble beteropolymers from styrene, maleic anhydride and a cross-linking reactant. 2,647,886, Aug. 4.

Shallcross Controls, Inc., assignee : *See*—
Puerner, Erving A.

Shapiro, Justin J., Hyattsville, assignor to American Instrument Company, Inc., Silver Spring, Md. Electronic photometer. 2,647,436, Aug. 4.

Sharf, John M., assignor to Armstrong Cork Company, Lancaster, Pa. Method and apparatus for fabricating sheet materials. 2,647,553, Aug. 4.

Sharpe, Arthur H., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Adjustable paper stop for business machines. 2,647,610, Aug. 4.

Shaw, Hubert K., Boston, Mass. Buoyant, regulated-temperature weather-suit. 2,647,507, Aug. 4.

Shaw, Willard C. : *See*—
Quear, Eugene C., Shaw, and Edwards.

Sheffield Corporation, The, assignee : *See*—
Aller, Willis F.
Aller, Willis F., and Page.

Shell Development Company, assignee : *See*—
Goppel, Johan M.
Matthews, John B., and Grimshaw.
Peterson, Walter H.
Trainer, Richard P.

Shelley, Jesse J., Chicago, Ill. Open fire cooking device. 2,647,454, Aug. 4.

Sherriff, Fred, Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Combination clamp and rotating mechanism. 2,647,650, Aug. 4.

Sherritt Gordon Mines Limited, assignee : *See*—
Forward, Frank A.

Shields, Charles B. : *See*—
Fallor, Charles W., and Shields.

Shields, Jack E., Mount Lebanon, assignor to Shields Rubber Company, Pittsburgh, Pa. Roll neck seal. 2,647,778, Aug. 4.

Shields Rubber Company, assignee : *See*—
Shields, Jack E.

Shine, Andrew J. : *See*—
Bordi, Frederick J., and Shine.

Shive, Howard J., Schwenksville, assignor to Bentley-Harris Manufacturing Company, Conshohocken, Pa. Manufacturing tubular insulation. 2,647,296, Aug. 4.

Shive, Howard J., Schwenksville, assignor to Bentley-Harris Manufacturing Company, Conshohocken, Pa. Apparatus for coating tubular fabric and like narrow materials. 2,647,488, Aug. 4.

Shore, Louis L., University Heights, Ohio. Means for separating and recovering excess mercury from amalgam mix. 2,647,638, Aug. 4.

Sibley, Robert L., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Improving the flex resistance of butadiene-1,3 type polymers. 2,647,879, Aug. 4.

Sievern, Frederick, McKeesport, and J. L. Fox, Port Vue, assignors of one-third to B. Biesel, Pittsburgh, Pa. Brush wiper attachment for paint cans. 2,647,658, Aug. 4.

Sliven, Herbert A., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,647,349, Aug. 4.

Simmons, Howard A., Milford, assignor of one-half to J. R. Kimball, Hopedale, Mass. Mounting for textile spindles. 2,647,806, Aug. 4.

Sindzinski, Willy K., Berlin, Germany, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Receiver for pneumatic post systems with horizontal capsule ejection. 2,647,706, Aug. 4.

Singleton, Lester D., Rutland, Vt., assignor to The Howe Scale Company. Weighing scale. 2,647,742, Aug. 4.

Sink, Robert L., Altadena, assignor to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometer. 2,648,008, Aug. 4.

Slater, Wilmer T.: *See*—
Biscoe, Percival H., and Slater.

Slattery, Thomas P., assignee: *See*—
Conradson, Prentice H.

Sloan, Stephen A., Darien, Conn., assignor to Peabody Engineering Corporation, New York, N. Y. Burner throat. 2,647,568, Aug. 4.

Smith, A. O., Corporation, assignee: *See*—
Gruetjen, Frederick A.

Smith, Alexander, Incorporated, assignee: *See*—
Pfau, Julius H.

Smith, Alonzo L., Houston, Tex. Inside blowout preventer. 2,647,728, Aug. 4.

Smith, Charles C.: *See*—
Borngesser, Otto J. Bradshaw, and Smith.

Smith, Charles F., Fort Worth, Tex. Guitarist's steel bar. 2,647,429, Aug. 4.

Smith, Clara D., Columbus, Ohio, assignor to Standard Oil Development Company. Characterizing hydrocarbon mixtures. 2,648,010, Aug. 4.

Smith, James S., Towanda, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Fluorescent screen. 2,648,013, Aug. 4.

Smith, John O., Jr.: *See*—
Jones, Allen R., and Smith.

Smith, Joseph B., Cleveland, Ohio. Pipe coupling. 2,647,769, Aug. 4.

Smith, Kline & French Laboratories, assignee: *See*—
Aschner, Thomas C.

Smith, Neal J. and R. I., New Orleans, La. Apparatus for detecting and recording measurements of seismic, gravitational, and other forces. 2,648,055, Aug. 4.

Smith, Roberta I.: *See*—
Smith, Neal J. and R. I.

Smith, Stanley J., and T. Weber, Jr., New York, N. Y. Density measuring device. 2,647,395, Aug. 4.

Smith, Sydney, Swanage, Dorset, England. Motor-propelled cultivator. 2,647,450, Aug. 4.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Centrifugally operated torque limiting clutch. 2,647,603, Aug. 4.

Smullin, Louis D., Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. High power transmit-receive box. 2,647,952, Aug. 4.

Societe Anonyme styled: Compagnie Electro-Mecanique, assignee: *See*—
Brunand, André.

Societe Ratean (Societe Anonyme), assignee: *See*
Sédille, Marcel H. L.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Bergstrom, Eric V.
Marisic, Milton M.
Plank, Charles J., and Haensford.
Weisz, Paul B.

Solar Corporation, assignee: *See*—
Lund, Arthur D.

Sorensen, Imanuel, Copenhagen, Denmark. Liquid level gauge. 2,647,406, Aug. 4.

Spargo, Edgar S., assignor to Sparson Engineering Corporation, Miami Springs, Fla. Ticket issuing and printing machine. 2,647,457, Aug. 4.

Sparson Engineering Corporation, assignee: *See*—
Spargo, Edgar S.

Speeter, Merrill E., Kalamazoo, Mich., assignor to Bristol Laboratories Inc., Syracuse, N. Y. Diphenyl-dimethyl-aminovaleramide. 2,647,926, Aug. 4.

Sprague Electric Company, assignee: *See*—
Taylor, Walter H.

Sprague Meter Company, assignee: *See*—
Whitworth, Fairchild.

Sprigg, Edward A., East Orange, assignor to Breeze Corporations, Inc., Newark, N. J. Battery terminal connector. 2,648,051, Aug. 4.

Spurgeon, Samuel J., and R. O. Kimbro, Birmingham, Ala., said Kimbro assignor to said Spurgeon. Conveyer. 2,647,617, Aug. 4.

Spurgeon, Samuel J., Birmingham, Ala. Bearing mounting for idler rolls and the like. 2,647,808, Aug. 4.

Square D Company, assignee: *See*—
Mekelburg, Earl F.

Srogi, Ladislaw G., Bloomfield, assignor to Packard Motor Car Company, Detroit, Mich. Centrifugal impeller structure. 2,647,685, Aug. 4.

Stafford, Harry L., Alexandria, Va., assignor to the United States of America as represented by the Secretary of Agriculture. Dye fluid dispensing meter. 2,647,663, Aug. 4.

Stalcup, Josephine C., Rogers, Ark. Hearing aid assembly adapted for head wear. 2,647,955, Aug. 4.

Stallings, Jay W., Harrisburg, N. C., assignor of four-fifths to J. R. Linker, Milwaukee, Wis. Ratchet-type drill. 2,647,420, Aug. 4.

Standard Oil Company, assignee: *See*—
Brunstrum, Lawrence C.
Schroeder, Carl J.
Watson, Roger W., and Ditto.

Standard Oil Development Company, assignee: *See*—
Breedlove, Harry B.
Drout, William M., Jr.
Jones, Allen R., and Smith.
Smith, Clara D.

Stanley Home Products, Inc., assignee: *See*—
Petrone, James.

Stapling Machines Co., assignee: *See*—
MacNamara, Clifford J.

Star Pin Company, The, assignee: *See*—
Heavens, John E., Jr.

Stauffer, Dale A., and O. E. Fancher, assignors to Miles Laboratories, Inc., Elkhart, Ind. Spiro [cyclohexane-1,9'-fluorene] amines. 2,647,896, Aug. 4.

Stearns, Howard E., Grand Island, Nebr. Side outlet for above-ground irrigation pipes. 2,647,539, Aug. 4.

Stempel, Arthur: *See*—
Aeschlimann, John A., and Stempel.

Stempel, Arthur, River Edge, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Stabilized compositions of hydroxyphenylammonium halides. 2,647,928, Aug. 4.

Stephens, Henry M., assignor to Marathon Coal Bit Company, Inc., Montgomery, W. Va. Cutter bit and holder therefor. 2,647,737, Aug. 4.

Sterling Drug Inc., assignee: *See*—
Archer, Sydney.
Archer, Sydney, and Bair.
Surrey, Alexander R.
Surrey, Alexander R., and Bair.

Stewart, William C., Severna Park, Md. Relaxation test apparatus. 2,647,393, Aug. 4.

Stickelber, Merlin A., Kansas City, Mo., assignor to Stickelber & Sons, Inc. Dough transfer device for loaf molding apparatus. 2,647,612, Aug. 4.

Stickelber & Sons, Inc., assignee: *See*—
Sticelber, Merlin A.

Stone, Roger T., San Jose, Costa Rica, assignor to Food Concentrates, Inc., New York, N. Y. Making a banana product. 2,647,838, Aug. 4.

Stoner, Charles W., Milwaukee, Wis. Antisweat antifrost attachment. 2,647,374, Aug. 4.

Storer, John E., Jr., and W. G. Livezey, Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich. Overrunning clutch. 2,647,599, Aug. 4.

Stott, John L., Saranac Lake, N. Y. Combined internal-combustion engine and turbine. 2,647,363, Aug. 4.

Strachan, Andrew J.: *See*—
Christian, Raymond A., Strachan, and Williams.

Studler, Aurele A., Glendale, Calif. Massaging roller. 2,647,509, Aug. 4.

Stump, Eugen, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Cooled cylinder head for internal-combustion engines. 2,647,497, Aug. 4.

Sudan, Eugene: *See*—
Wright, John G., Toney, Watkins, Sudan, and Maxwell.

Sun Oil Company, assignee: *See*—
Johnson, Ford L., and Mayea.

Sun Ray Electric, Inc., assignee: *See*—
Dremann, Walter J., and Dunham.

Superior Steel Products Corp., assignee: *See*—
Janiszewski, Kasimir.

Superior Sugar Refining Company, assignee: *See*—
Bishop, Alfred E.

Surrey, Alexander R., and R. K. Bair, Albany, assignors to Sterling Drug Inc., New York, N. Y. 9-(2,3-dihydroxypropylaminoethylamino)-acridines and their preparation. 2,647,900, Aug. 4.

Surrey, Alexander R., Albany, assignor to Sterling Drug Inc., New York, N. Y. Preparation of 2-substituted-3-ureido-4-thiazolidones, 1-dioxide derivatives thereof. 2,647,905, Aug. 4.

Surrey, Alexander R., Albany, assignor to Sterling Drug Inc., New York, N. Y. 2-(halo-phenyl)-4-thiazolidone-1-dioxides and their preparation. 2,647,906, Aug. 4.

Sutcliffe, William G.: *See*—
Knowles, John H., and Sutcliffe.

Swain, Kenneth W.: *See*—
Edsall, William S., and Swain.

Swerdlow, Nathan, Philadelphia, and G. G. Abel, Media, Pa., assignors to General Electric Company. Metal enclosed bus with adjustable bus clamping means. 2,647,940, Aug. 4.

Sylvania Electric Products Inc., assignee: *See*—
Kerstetter, Donald R.





Syncro Machine Company, assignee: *See*—
Orr, Carroll E.

Szabo, Fred, Corona, Calif. Invalid child's bathing and amusement chair. 2,647,561, Aug. 4.

T. M. M. (Research) Limited, assignee: *See*—
Watson, William H., and Cole.

Taige, Foster L., assignee: *See*—
Landry, William J.

Taige, Henry J., assignee: *See*—
Landry, William J.

Tatel, Howard E., Silver Spring, Md., and E. W. Trainer, Rochester, N. Y., assignors to the United States of America as represented by the Secretary of the Navy. Projectile radio sonde. 2,647,991, Aug. 4.

Taylor, John W., Jr., Baltimore, and W. S. Parnell, Arbutus, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Klystron oscillator. 2,648,005, Aug. 4.

Taylor, Walter H., Williamstown, assignor to Sprague Electric Company, North Adams, Mass. Combined electrolytic barrier and electrolyte. 2,647,938, Aug. 4.

Taylor, William I., and S. G. Hawtin, Spondon, near Derby, England, assignors to British Celanese Limited. Laundry calender tape. 2,647,845, Aug. 4.

Teague, Walter D., Jr., Alpine, assignor to Bendix Aviation Corporation, Teterboro, N. J. Oil cooler protective means. 2,647,730, Aug. 4.

Technicon Cardiograph Corporation, assignee: *See*—
Pelavin, Milton H.

Tesla, National Corporation, assignee: *See*—
Vackář Jiří.

Thomas, Earl E., assignee: *See*—
Bohm, William O.

Thomas, Earl E., Detroit, and S. T. Coughlan, Dearborn, Mich., assignors to Thomas Roller Painting Equipment Corporation. Self-expanding painting roller with detachable covering sleeve. 2,647,276, Aug. 4.

Thomas, Earl E., Detroit, Mich. Painting appliance of the detachable rolling sleeve type. 2,647,299, Aug. 4.

Thomas, Earl E., Detroit, and S. T. Coughlan, Dearborn, Mich., assignors to Thomas Roller Painting Equipment Corporation. Detachable tubular cover for painting rollers. 2,647,300, Aug. 4.

Thomas Roller Painting Equipment Corporation, assignee: *See*—
Thomas, Earl E., and Coughlan.

Thomson Electric Welder Company, assignee: *See*—
Moore, Charles D.

Thorsen, Kristen A.: *See*—
Héry, Deouard, and Thorsen.

Thys, Edouard, Saccamento, Calif. Hop stem separator. 2,647,626, Aug. 4.

Tilden, Sydney G., Stewart Manor, N. Y., assignor to The Permafuse Corp. Nonsqueaking brake assembly. 2,647,592, Aug. 4.

Timken-Detroit Axle Company, The, assignee: *See*—
Keese, Beverly W.

Tindall, John B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Catalytic reduction of nitroolefins. 2,647,930, Aug. 4.

Tissier, Roger H., Paris, France. Admission manifolds for internal-combustion engines. 2,647,503, Aug. 4.

Tobin, Thomas J.: *See*—
Allan, William G., and Tobin.

Toggenburger, John, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Copyholder. 2,647,491, Aug. 4.

Tollefsbol, Orion E., Oak Ridge, Tenn., assignor to the United States of America, as represented by the United States Atomic Energy Commission. Sealed telescopic pipe joint. 2,647,770, Aug. 4.

Tonex Company, The, assignee: *See*—
Dahlberg, Arnold R., Larson, and Chapman.

Toney, Charles D.: *See*—
Wright, John G., Toney, Watkins, Sudan, and Maxwell.

Topmiller, Alma K., assignee: *See*—
Topmiller, Edwin B.

Topmiller, Anna C., assignee: *See*—
Topmiller, Edwin B.

Topmiller, Dorothy, assignee: *See*—
Topmiller, Edwin B.

Topmiller, Edwin B., Nashville, Tenn., assignor of nine percent to A. K. Topmiller, ten percent to E. B. Topmiller, Jr., ten percent to D. Topmiller, ten percent to K. Garrison, and ten percent to A. C. Topmiller. Composition tendon support. 2,647,510, Aug. 4.

Topmiller, Edwin B., Jr., assignee: *See*—
Topmiller, Edwin B.

Tornberg, Henning T., Ridgewood, assignor to Modern Plastic Machinery Corp., Lodi, N. J. Electrical switching operating device. 2,647,966, Aug. 4.

Townsley, Malcolm G., Park Ridge, assignor to Bell & Howell Company, Chicago, Ill. Adjustment providing electromagnetic head mount. 2,647,755, Aug. 4.

Trackon Co., Inc., assignee: *See*—
Saunders, Norman.

Trainer, Edgar W.: *See*—
Tatel, Howard E., and Trainer.

Trainer, Richard P., Amityville, N. Y., assignor to Shell Development Company, Emeryville, Calif. Heating powdered material. 2,647,738, Aug. 4.

Trevaskis, Henry W., Solihull, assignor to Dunlop Rubber Company Limited, London County, England. Fluid pressure valve. 2,647,535, Aug. 4.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Triebnigg, Heinrich, and O. David, assignors to H. Oestrich, Decize, France. Method and apparatus for internally cooling gas turbine blades with air, fuel, and water. 2,647,368, Aug. 4.

Tritt, Samuel, Bronx, N. Y. Towel lock rack. 2,647,641, Aug. 4.

Troeger, Henry, Ramsey, and B. W. Goldberg, Passaic, assignors to Bendix Aviation Corporation, Teterboro, N. J. Flexible shaft. 2,647,380, Aug. 4.

Trofimov, Lev A., Willoughby, Ohio. Differential gearing power transmission. 2,647,417, Aug. 4.

Truck Service, Inc., assignee: *See*—
Mettetal, Donald, Jr.

Turner, Archibald P., and H. G. Blumberg, San Antonio, Tex. Flexible drive transmission for motor vehicles. 2,647,416, Aug. 4.

Turner, Edwin E., Jr., West Roxbury, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company. Coded impulse responsive secret signaling system. 2,648,060, Aug. 4.

Twiet, Daniel K., Juneau, Alaska, assignor to Plastichem Corporation, Seattle, Wash. Combined comb and powder applicator. 2,647,490, Aug. 4.

Udylite Corporation, The, assignee: *See*—
Brown, Henry.

Uher, Edmond, Paris, France. Rotary cylinder lock. 2,647,391, Aug. 4.

Umphrey, Donald M., Palo Alto, Calif., assignor to Pacific Electric Manufacturing Corp. Circuit interrupter. 2,647,973, Aug. 4.

Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Sagner, Walter T.
Sharpe, Arthur H.
Toggenburger, John.
Yaeger, Harry C.

Union Machine Company, assignee: *See*—
O'Neill, Edward M.

Union Oil Company of California, assignee: *See*—
Arthur, Milan G.
Berg, Clyde H. G.
Jakosky, John J.

United Shoe Machinery Corporation, assignee: *See*—
Eastman, Fred C.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Paxson, Gordon D.
Selvin, Gerald J.
Tollefsbol, Orion E.
Veltman, Preston L.

United States Hoffman Machinery Corporation, assignee: *See*—
Erlanger, Arnold.

United States Rubber Company, assignee: *See*—
Hinman, Dorr J.

U. S. Thermo Control Co., The, assignee: *See*—
Jones, Frederick M.

Universal Oil Products Company, assignee: *See*—
Fenske, Ellsworth R.
Grunewald, Glen R., and Pierce.
Waechter, Richard C., and Linn.

Upjohn Company, The, assignee: *See*—
Ford, Jared H.
Heinzelmann, Richard V.
Heyl, Frederick W., and Herr.
Schmitt, John A.
Weisblat, David I., and Magerlein.

V-Seal Corporation, assignee: *See*—
Landry, Arthur B., and Martin.

Vackář, Jiří, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia. Wattmeter for electric high-frequency currents. 2,648,048, Aug. 4.

Van Gastle, Grant L., deceased, late of Columbus, Ohio, by S. A. Van Gastle, administratrix, assignor to S. A. Van Gastle, Columbus, Ohio. Automatic starter-energizing circuit for automotive vehicles. 2,648,016, Aug. 4.

Van Gastle, Shirley A., administratrix, assignee: *See*—
Van Gastle, Grant L.

Van Wessem, Gijsbertus C., Harrison, and E. H. Kastning, Poundridge, N. Y. Condensing apparatus. 2,647,823, Aug. 4.

Vapor Heating Corporation, assignee: *See*—
Gillick, Laurance H., Russell, and Kirkby.

Veltman, Preston L., Severna Park, Md., assignor to the United States of America as represented by the United States Atomic Energy Commission. Flotation of uranium. 2,647,629, Aug. 4.

Vibradamp Corporation, assignee: *See*—
Schwartz, Ralph E.

Vickers-Armstrongs Limited, assignee: *See*—
Wallis, Barnes N.

Vickers Incorporated, assignee: *See*—
Weathers, Leland C.

Vickery, Charles H.: *See*—
Jones, Dwight E., and Vickery.

Victor Manufacturing & Gasket Co., assignee: *See*—
Kosatka, Thomas O.

Vierra, Antone N., Honolulu, Hawaii. Flush tank disinfectant dispenser. 2,647,266, Aug. 4.

Vincent, Melvon L., Alberhill, Calif. Tractor attachment for cable or hydraulic tipple loaders. 2,647,651, Aug. 4.

Vogt, Clarence W., Norwalk, Conn. Bag assembly. 2,647,680, Aug. 4.

Voland and Sons, Inc., assignee: *See*—
Wasko, Bernard.

Volkmann, John: *See*—
Newman, Edwin B., and Volkmann.

Vollender, Ferdinand A., Jr., Guttenberg, N. J. Ash tray adapter. 2,647,523, Aug. 4.

Volpin, Alexander S., Houston, Tex. Automatic lubricated plug valve. 2,647,720, Aug. 4.

Volpin, Alexander S., Houston, Tex. Arrangement for repacking valve stems under pressure. 2,647,721, Aug. 4.

Wacker-Chemie G. m. b. H., assignee: *See*—
Nitzsche, Siegfried.
Nitzsche, Siegfried, and Pirson.

Wackher, Richard C., La Grange, and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of phenolic compounds. 2,647,931, Aug. 4.

Wagner, John L., Endwell, W. Webb, Endicott, and R. N. Eichorn, Vestal, assignors to International Business Machines Corporation, New York, N. Y. Electric time system with electronic self-regulation. 2,647,360, Aug. 4.

Walden, Jack R.: *See*—
Doolittle, Donald B., and Walden.

Waldorf Paper Products Company, assignee: *See*—
Schilling, Paul A., Mairs, and Baird.

Wales, George F., Kenmore, N. Y. Instruction accessory for chess games. 2,647,749, Aug. 4.

Walker, Harold L.: *See*—
Walker, Harry H. and H. L.

Walker, Harry H., and H. L., St. Paul, Minn. Artificial bait. 2,647,340, Aug. 4.

Wall, Charles G., Philadelphia, Pa. Mixing valve. 2,647,529, Aug. 4.

Wallanschek, Richard A., L'Etang-la-Ville, France. Piezoelectric magnetometer. 2,648,046, Aug. 4.

Wallerstein Company, Inc., assignee: *See*—
Pfannmuller, Julius W., and Noë.

Wallis, Barnes N., Weybridge, assignor to Vickers-Armstrongs Limited, London, England. Releasable attachment. 2,647,776, Aug. 4.

Wallis, Peter R.: *See*—
Parker, Eric, Wallis, and Woroncow.

Walton, Cecil E., Cleveland, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Adjustable focusing coil. 2,648,036, Aug. 4.

Wander, Dr. A. A. G., assignee: *See*—
Schaltegger, Hermann.

War, United States of America as represented by the Secretary of, assignee: *See*—
Schiff, Sigmund.

Warburton, Ryland R., Richmond, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Viscose recovery. 2,647,891, Aug. 4.

Ware, Marsden, Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine casing construction. 2,647,494, Aug. 4.

Warmoes, Jean J., Montreal, Quebec, Canada, and L. A. A. J. Closkin, Liege, Belgium. Device for elastically transferring forces. 2,647,412, Aug. 4.

Wasko, Bernard, Bronx, assignor to Voland and Sons, Inc., New Rochelle, N. Y. Analytical balance. 2,647,741, Aug. 4.

Watkins, Charles A.: *See*—
Wright, John G., Toney, Watkins, Sudan, and Maxwell.

Watson, Robert B., Austin, Tex., assignor to the United States of America as represented by the Secretary of the Navy. Polar chart recorder. 2,647,813, Aug. 4.

Watson, Roger W., Highland, Ind., and C. R. Ditto, Alton, assignors to Standard Oil Company, Chicago, Ill. Preparation of barium salts of phosphorus sulfide-hydrocarbon reaction products. 2,647,889, Aug. 4.

Watson, William H., Werneth, Oldham, and S. L. Cole, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England. Ring spinning machine for spinning fibrous material. 2,647,357, Aug. 4.

Weathers, Leland C., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,648,045, Aug. 4.

Weaver, Ciny, assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del. Light-sensitive photographic element and process of coating. 2,647,835, Aug. 4.

Webb, Washington: *See*—
Wagner, John L., Webb, and Eichorn.

Weber, Theodore, Jr.: *See*—
Smith, Stanley J., and Weber.

Wehren, Fredrick L.: *See*—
Palmatier, Clifford C., and Wehren.

Weides, Erich, Langel, near Porz (Rhein), Germany. Electric resistances. 2,647,977, Aug. 4.

Weidner, Edmund, Berlin, Germany. Producing a crystalline mixture of hexamethylenetetramine thiocyanic acid and ammonium sulphate. 2,647,897, Aug. 4.

Weinberger, Harold, South Orange, N. J. Shrimp deveiner and sheller. 2,647,278, Aug. 4.

Weisberger, Arthur A., and R. J. Helton, Hammond, Ind., assignors to American Steel Foundries, Chicago, Ill. Broaching machine. 2,647,443, Aug. 4.

Weisblat, David I., and B. J. Magerlein, assignors to The Upjohn Company, Kalamazoo, Mich. N-(2-keto-3-oximinoalkyl)-p-amino-benzoate compounds. 2,647,915, Aug. 4.

Weiss, Herbert G., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Automatic frequency control in pulse transmission systems. 2,647,994, Aug. 4.

Weisz, Paul B., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Oil decolorization method. 2,647,858, Aug. 4.

Welch, Gerald C., Rochester, N. Y. Surface test indicator. 2,647,324, Aug. 4.

Wernert, Karl, Muilheim an der Ruhr, Germany. Bearing seal for underwater use. 2,647,772, Aug. 4.

Werschlog, Jacob A., Chicago, Ill. Universal combination collapsible flatiron rest and cord control. 2,647,713, Aug. 4.

West, Albert R.: *See*—
Mueller, William A., and A. R. and R. B. West.

West Robert B.: *See*—
Mueller, William A., and A. R., and R. B. West.

Western Union Telegraph Company, The, assignee: *See*—
Ridings, Garvice H., Hackenberg, and Worthen.

Westinghouse Air Brake Company, assignee: *See*—
Claus, William H.
Failor, Charles W., and Shields.

Westinghouse Electric Corporation, assignee: *See*—
Baker, Robert M.
Boyd, Bruce.
Mabry, Forrest S.
Opel, Lawrence G., and Harding.
Taylor, John W., Jr., and Parnell.
Wheeler, Myron S.

Wheeler, Myron S., Upper Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multivibrator. 2,648,004, Aug. 4.

Wheeling Steel Corporation, assignee: *See*—
Cook, Nelson E., and Norteman.

Whitaker, Jesse L., Great Falls, Mont. Bedside tray-table support. 2,647,516, Aug. 4.

White, Eric L. C., Richings Way, Iver, assignor to Electric & Musical Industries Limited, Hayes, England. Pulse generating apparatus. 2,647,946, Aug. 4.

White, Luisa R., Seattle, Wash. Dispensing container for paper rolls. 2,647,577, Aug. 4.

White, Milton G., Princeton, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Control of wave length in wave guides. 2,648,000, Aug. 4.

White, Paul F., Glen Ellyn, assignor to Santay Corporation, Chicago, Ill. Clothes rack. 2,647,669, Aug. 4.

Whitehead, Willard J., and G. E. Parker, assignors to Woodward Governor Company, Rockford, Ill. Fluid actuated governor control. 2,647,493, Aug. 4.

Whiting Corporation, assignee: *See*—
Holmes, Louis D.

Whitney, John E. S.: *See*—
Evans, Edward M., and Whitney.
Evans, Edward M., Bradshaw, and Whitney.

Whitney, William B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Process and apparatus for vacuum distillation. 2,647,862, Aug. 4.

Whitworth, Fairchild, Fairfield, assignor to Sprague Meter Company, Bridgeport, Conn. Meter top and index box. 2,647,404, Aug. 4.

Wildman, Mfg. Co., assignee: *See*—
Howie, Kenneth.

Wilkinson, Clarence M., Akron, Ohio. Chute intake door or hopper. 2,647,605, Aug. 4.

Willcox & Gibbs Sewing Machine Company, assignee: *See*—
Gentillo, Achille J.

Williams, Earl C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Time control switch. 2,647,963, Aug. 4.

Williams, John M., Madison, N. J., and T. L. May, Long Island City, N. Y., said May assignor to said Williams. Leaf grinder. 2,647,604, Aug. 4.

Williams, Paul H.: *See*—
Christian, Raymond A., Strachan, and Williams.

Williams, Samuel B., Chevy Chase, Md., assignor to The National Cash Register Company, Dayton, Ohio. Electronic counting device. 2,647,997, Aug. 4.

Wilsher, Everett A., and E. C. Roh, Grand Rapids, Mich. Wrapper for articles of merchandise. 2,647,334, Aug. 4.

Wilson, Howe E., Washington, Ind. Building block with spaced walls. 2,647,392, Aug. 4.

Wintercorn, Andrew F., Rockford, Ill. Fire safety appliance for application to the outside of windows. 2,647,293, Aug. 4.

Witkowski, Raymond J., Syracuse, N. Y., assignor to General Electric Company. Tuning system. 2,648,007, Aug. 4.

Wittall M. J., Associates, Inc., assignee: *See*—
Ryan, Walter M.

Wögerbauer, Alfred, Zinf, Oberosterreich, Austria. Electrical butt seam welding or cutting process and apparatus for carrying out said process. 2,647,981, Aug. 4.

Wolf, Jacob J., Jr., New Orleans, La. Reflex camera with a picture strip moving transversely across the camera box. 2,647,449, Aug. 4.





Wood, Joseph D., Upper Darby, and A. S. Caswell, assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa. High-voltage circuit breaker. 2,647,972, Aug. 4.

Woodward Governor Company, assignee: *See*—
Whitehead, Willard J., and Parker.

Wooley, Edward L., Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Winding machine traverse mechanism. 2,647,698, Aug. 4.

Woolslayer, Homer J., and C. D. Iddings, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa. Truck ramp. 2,647,606, Aug. 4.

Woroncow, Alexander.: *See*—
Parker, Eric, Wallis, and Woroncow.

Worthen, George B.: *See*—
Ridings, Garvice H., Hackenberg, and Worthen.

Wright, Jay W.: *See*—
Klein, Norman E., and Wright.

Wright, John G., C. D. Toney, C. A. Watkins, and E. Sudan, Atlanta, and W. A. Maxwell, Duluth, Ga., assignors to The Auto-Soler Company. Wire reel mounting. 2,647,702, Aug. 4.

Wystrach, Vernon P., Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y. Isocyanates and products prepared therefrom and making the same. 2,647,884, Aug. 4.

Yaeger, Harry C., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Carriage control at tabulation rebounding. 2,647,611, Aug. 4.

Yale, Gordon A., Marblehead, Mass. Comparator for assisting in the identification of unkown stains, colors, or the like. 2,647,433, Aug. 4.

Yeager, John F.: *See*—
Morse, Ted B., and Yeager.

Yeater, Max L., Boulder, Colo., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Heat retaining means for hydrogen thyratron. 2,648,024, Aug. 4.

Yoltes, Jack, Dayton, Ohio. Spoon. 2,647,310, Aug. 4.

Young, James F., Bridgeport, Conn., assignor to General Electric Company. Vibration dampener. 2,647,591, Aug. 4.

Young, Vernon V., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Penicillin salts of methylpentylamine. 2,647,893, Aug. 4.

Z & W Machine Products, Inc., assignee: *See*—
Ziberl, Frank.

Zaleski, John F., Valhalla, N. Y., assignor to General Precision Laboratory Incorporated. Microwave phase shifter. 2,647,950, Aug. 4.

Zaleski, John F., Valhalla, N. Y., assignor to General Precision Laboratory Incorporated. Microwave power divider and switch. 2,647,951, Aug. 4.

Zearfoss, Elmer W., Jr., assignor to Philco Corporation, Philadelphia, Pa. Two-temperature refrigerator with automatic defrosting. 2,647,375, Aug. 4.

Ziffer, Garret F., Cambridge, Mass., assignor to General Electric Company. High-frequency communication system. 2,647,993, Aug. 4.

Ziberl, Frank, Euclid, Ohio, assignor to Z & W Machine Products, Inc. Manufacturing pipe fittings and the like. 2,647,303, Aug. 4.

Ziberl, Frank, Euclid, Ohio, assignor to Z & W Machine Products, Inc. Spraying device with swivel nozzle. 2,647,796, Aug. 4.

Ziberl, Frank, Euclid, Ohio, assignor to Z & W Machine Products, Inc. Electrical spraying device. 2,648,017, Aug. 4.

Zileri, Alberto L. J., and M. Freudenstein, Buenos Aires, Argentina. Steered trundle toy. 2,647,343, Aug. 4.

Zion, Forest L.: *See*—
Nichols, Charles A., Clevenger, Zion, and Fletcher.

Zisman, William A., Washington, D. C., and H. R. Baker, Mount Rainier, Md. Water displacing rust preventive compositions and coating a base therewith. 2,647,839, Aug. 4.

Zobel, Theodor W., Braunschweig, and F. Mirus, Weiner, Germany. Interferometer using liquid mirrors. 2,647,434, Aug. 4.

# LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Box beam construction for floors. K. L. Bergvall and E. E. Dahlberg. Re. 23,693, Aug. 4.
Clutch follow-up device, Mechanical. H. F. Vickers. Re. 23,692, Aug. 4.
Material handling device for industrial trucks. L. G. Ebmann. Re. 23,694, Aug. 4.
Power drive control system and mechanism, Automotive. G. T. Randol. Re. 23,696, Aug. 4.
Power-transmitting system and mechanism, Automotive. G. T. Randol. Re. 23,695, Aug. 4.
Sponge rubber composition. W. R. Stauffer. Re. 23,697, Aug. 4.

# LIST OF PLANT INVENTIONS

Avocado tree. H. L. Gillespie. 1,208, Aug. 4.
Rose plant. R. V. Lindquist. 1,209, Aug. 4.

# LIST OF DESIGN INVENTIONS

Base for table lamps. E. I. Cole. 170,112, Aug. 4.
Bicycle. N. M. Essary. 170,115, Aug. 4.
Bracelet or the like. A. Katz. 170,123–5, Aug. 4.
Cart, Hand. P. M. Rogers. 170,137, Aug. 4.
Chain for a bracelet or the like, Link. A. Katz. 170,126–7, Aug. 4.
Chain for a bracelet or the like, Link. A. Philippe. 170,131–2, Aug. 4.
Chain for a necklace or the like, Link. A. Philippe. 170,133–6, Aug. 4.
Chair. H. C. Jackson. 170,121, Aug. 4.
Cribbage board. S. G. Isserstedt. 170,120, Aug. 4.
Handbag. W. H. Hardy. 170,118, Aug. 4.
Headstone. F. L. Cantrall. 170,110, Aug. 4.
Hobbyhorse. C. A. Batten. 170,108, Aug. 4.
Hubcap. R. E. Dieterich. 170,114, Aug. 4.
Lamp and planter or similar article, Combination. F. C. Levy. 170,128, Aug. 4.
Light, Purse. A. Ross. 170,139, Aug. 4.
Mixer or similar article, Food. W. E. Moore. 170,130, Aug. 4.
Ottoman or similar article, Convertible. P. F. W. Jörgensen. 170,122, Aug. 4.
Puzzle. G. and I. de Sibrik. 170,113, Aug. 4.
Range, Electric. F. M. Gustafson. 170,117, Aug. 4.
Receptacle. J. E. Cheneweth. 170,111, Aug. 4.
Sandal. N. Baroumes. 170,107, Aug. 4.
Screw driver and reamer, Combination. W. D. Hull. 170,119, Aug. 4.
Spoke and hub cover for automobile steering wheels. H. G. Gilliam. 170,116, Aug. 4.
Tailpiece vibrato for string instrument. P. A. Bigsby. 170,109, Aug. 4.
Tank and heat collector for portable fire extinguishers, Combined extinguishant. P. Lim. 170,129, Aug. 4.
Toy, Wheeled. H. D. Allen. 170,106, Aug. 4.
Wastebasket or similar article. N. W. Roop. 170,138, Aug. 4.



# LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive belt tool. J. Y. Blazek. 2,647,350, Aug. 4.
Adjustable plate stand. R. Lamouoette. 2,647,381, Aug. 4.
Adjustment providing electro-magnetic head mount. M. G. Townsley. 2,647,755, Aug. 4.
Aerodynamic braking of aircraft, Means for the. M. H. L. Sédille. 2,647,367, Aug. 4.
Agitator device for digester tanks. J. H. Knowles and W. G. Sutcliffe. 2,647,733, Aug. 4.
Air blending temperature control for heating and cooling systems. L. H. Gillick, E. A. Russell, and N. O. Kirkby. 2,647,452, Aug. 4.
Aircharger, Diaphragm-type. F. M. Nash. 2,647,466, Aug. 4.
Airplane step. G. M. Reed. 2,647,677, Aug. 4.
Aligning apparatus. B. R. Hart and G. Hare. 2,647,321, Aug. 4.
Alkyl diformyl phenylenediamines. S. B. Buc and S. A. Glickman. 2,647,815, Aug. 4.
Alkyl nitrate, Manufacture of an. W. G. Allan and T. J. Tohin. 2,647,914, Aug. 4.
Alkylation of phenolic compounds. R. C. Wackher and C. R. Linn. 2,647,931, Aug. 4.
Altitude sensor. C. M. Perkins. 2,648,041, Aug. 4.
Analytical balance. B. Wasko. 2,647,741, Aug. 4.
Antenna, Dielectric. J. E. Eaton. 2,649,002, Aug. 4.
Antenna mast. W. P. Matson and W. K. Barrett. 2,647,941 Aug. 4.
Antenna, Ring type. H. J. Rowland. 2,648,001, Aug. 4.
Antenna sector scan control. T. B. Morse and J. F. Yeager. 2,648,038, Aug. 4.
Antioffset powder and preparing same. L. J. La Brie and J. E. Fenn. 2,647,802, Aug. 4.
Antisweat antifrost attachment. C. W. Stoner. 2,647,374, Aug. 4.
Antitheft device, Vehicle wheel and tire. A. Hudson. 2,647,763, Aug. 4.
Apparatus adapted for use in washing eaves of railway and other vehicles and embodying one or more rotary power-driven brushes mounted to swing bodily up and down and also to tilt. L. D. Holmes. 2,647,272, Aug. 4.
Apparatus and process for coating paper. R. N. Griesheimer and R. C. Hydell. 2,647,842, Aug. 4.
Apparatus and process for countercurrent liquid-fluid extraction. G. R. Grunewald and F. J. Pierce. 2,647,856, Aug. 4.
Apparatus and process for countercurrent liquid-liquid extraction. G. R. Grunewald and F. J. Pierce. 2,647,855, Aug. 4.
Apparatus for cementing wells. C. C. Brown and E. L. Potts. 2,647,582, Aug. 4.
Apparatus for cleaning open ended hollow tubular elements. P. M. and R. R. Casady. 2,647,526, Aug. 4.
Apparatus for cleaning tanks and the like. R. C. Grein. 2,647,639, Aug. 4.
Apparatus for coating tubular fabric and like narrow materials. H. J. Shive. 2,647,488, Aug. 4.
Apparatus for collecting and preserving blood. C. A. Ellis. 2,647,514, Aug. 4.
Apparatus for connecting circuit elements. G. Peterson. 2,647,990, Aug. 4.
Apparatus for connecting portable telephones to lines in the field. R. O. Graham and O. F. Tallman. 2,648,052, Aug. 4.
Apparatus for controlling highway crossing signals. W. H. Claus. 2,647,988, Aug. 4.
Apparatus for cutting and mounting frames of adhesive-coated material on cards. R. Connor and H. E. Hooe. 2,647,578, Aug. 4.
Apparatus for cutting thin sections. P. G. Roofe and F. E. Hoecker. 2,647,439, Aug. 4.
Apparatus for detecting and recording measurements of seismic, gravitational, and other forces. N. J. and R. I. Smith. 2,648,055, Aug. 4.
Apparatus for displaying variable information in offices and elsewhere. R. A. E. Guichard. 2,647,327, Aug. 4.
Apparatus for electronic spectrometric analysis of back-reflection diffraction. J. N. Good. 2,648,011, Aug. 4.
Apparatus for harvesting crops. J., A., Jr., and F. Duda. 2,647,525, Aug. 4.
Apparatus for orienting notched cleats. C. J. MacNamara. 2,647,614, Aug. 4.
Apparatus for parking automobiles. M. Allmanestiano. 2,647,647, Aug. 4.
Apparatus for pressing print tissue onto articles. R. H. Martin. 2,647,337, Aug. 4.
Apparatus for proportioning liquid mixtures. E. M. O'Neill. 2,647,485, Aug. 4.
Apparatus for providing gravity flow in flooded coil refrigeration systems. W. G. Cartter and J. R. Ewell. 2,647,377, Aug. 4.
Apparatus for solids flow control. C. H. O. Berg. 2,647,587, Aug. 4.
Apparatus for the control of distillation reflux. J. E. Kochle. 2,647,863, Aug. 4.
Apparatus for the restitution of images. G. J. Polvilliers. 2,647,317, Aug. 4.
Applying covers to drawing rolls. E. J. Courtney. 2,647,556, Aug. 4.
Arch structure, Knockdown. A. Dietrich. 2,647,475, Aug. 4.
Arrangement for repacking valve stems under pressure. A. S. Volpin. 2,647,721, Aug. 4.
Article-handling machine. O. P. Lance. 2,647,616, Aug. 4.
Artificial bait. H. H. and H. L. Walker. 2,647,340, Aug. 4.
Ash collector, Boiler tube fly. C. E. Miller. 2,647,588, Aug. 4.
Ash tray adapter. F. A. Vollender, Jr. 2,647,523, Aug. 4.
Attachment for carburetors. E. L. Haynie. 2,647,735, Aug. 4.
Attachment for converting sleds to wheeled vehicles. A. V. Moffitt. 2,647,759, Aug. 4.
Automatic frequency control in pulse transmission systems. H. G. Weiss. 2,647,904, Aug. 4.
Automatic lubricated plug valve. A. S. Volpin. 2,647,720, Aug. 4.
Automobile heater. J. M. Aufiero. 2,647,451, Aug. 4.
Awning construction. F. C. Russell and A. A. Ensminger. 2,647,291, Aug. 4.
Awning, Window. J. M. Nachman. 2,647,290, Aug. 4.
Axle mounting. J. MacVeigh. 2,647,470, Aug. 4.
Back rest, Collapsible bleacher type. W. J. Bishop and G. C. Dibble. 2,647,563, Aug. 4.
Bag assembly. C. W. Vogt. 2,647,680, Aug. 4.
Baler, Pickup. A. R. J. Luke. 2,647,355, Aug 4.
Balk connector. L. P. Frost. 2,647,270, Aug. 4.
Banana product, Making a. R. T. Stone. 2,647,838, Aug. 4.
Bar: *See*—
Guitarist's steel bar.
Barium salts of phosphorus sulfide-hydrocarbon reaction products, Preparation of. R. W. Watson and C. R. Ditto. 2,647,889, Aug. 4.
Baster, Seam. R. Hughes. 2,647,316, Aug. 4.
Battery connector. H. E. Rutherford. 2,648,053, Aug. 4.
Battery terminal connector. E. A. Sprigg. 2,648,051, Aug. 4.
Bearing: *See*—
Nonfretting antifriction bearing.
Bearing mounting for idler rolls and the like. S. J. Spurgeon. 2,647,808, Aug. 4.
Bearing seal for underwater use. K. Wernert. 2,647,772, Aug. 4.
Beater refiner apparatus. D. E. Jones and C. H. Vickery. 2,647,445, Aug. 4.
Bed, Knockdown bunk. I. J. McLaughlin. 2,647,267, Aug. 4.
Bedside tray-table support. J. L. Whitaker. 2,647,516, Aug. 4.
Bell ringing apparatus. A. L. Macan. 2,647,487, Aug. 4.
Belt cleaner. L. E. Green. 2,647,619, Aug. 4.
Beryllium fluoride, Preparing. H. C. Kaweckl. 2,647,818, Aug. 4.
Beryllium oxide, Preparing. H. C. Kaweckl. 2,647,821, Aug. 4.
Bicycle lock. E. Paulson. 2,647,390, Aug. 4.
Binder follower. C. J. Panfil, Sr. 2,647,518, Aug. 4.
Bistable circuits. R. L. Best. 2,647,999, Aug. 4.
Bit: *See*—
Roller bit.
Blowout preventer, Inside. A. L. Smith. 2,647,728, Aug. 4.
Board: *See*—
Folding ironing board.
Bobbin signal. R. C. Campbell. 2,647,482, Aug. 4.
Bobby pin container. J. E. Heavens, Jr. 2,647,524, Aug. 4.
Book, Indexed. M. Cordone. 2,647,766, Aug. 4.
Boring machine, Horizontal earth. M. B. Kirk. 2,647,726, Aug. 4.

Bottle-corking machine. R. G. Bausano. 2,647,674, Aug. 4.
Box: *See*—
High power transmit-receive box. Railway switch box.
Box loader, Lemon. D. C. Cox. 2,647,670, Aug. 4.
Box with moving article support, Hinged. W. W. Sedgwick. 2,647,624, Aug. 4.
Box with pivoting article display. J. E. Coletta. 2,647,622, Aug. 4.
Box with rotating article support. D. Ortendahl. 2,647,623, Aug. 4.
Bracket: *See*—
Sawhorse connector bracket.
Brake assembly, Nonsquealing. S. G. Tilden. 2,647,592, Aug. 4.
Brake drum lubricant deflector. J. M. Kerr. 2,647,589, Aug. 4.
Brightening aluminum and aluminum alloy surfaces. H. M. Freud. 2,647,865, Aug. 4.
Broaching machine. A. A. Welsberger and R. J. Helton. 2,647,443, Aug. 4.
Brush. J. Petrone. 2,647,274, Aug. 4.
Brush holder. E. C. Ballman. 2,648,023, Aug. 4.
Brush wiper attachment for paint cans. F. Sievern and J. L. Fox. 2,647,658, Aug. 4.
Building block with spaced walls. H. E. Wilson. 2,647,392, Aug. 4.
Buoyant, regulated-temperature weather-suit. H. K. Shaw. 2,647,507, Aug. 4.
Burner: *See*—
Oil burner.
Burner throat. S. A. Sloan. 2,647,568, Aug. 4.
Burner-unit, Ribbon-type gas. J. H. Flynn. 2,647,569, Aug. 4.
Bus with adjustable bus clamping means, Metal enclosed. N. Swerdlow and G. G. Abel. 2,647,940, Aug. 4.
Bushing pocket with oil ports. K. K. Paluev. 2,647,939, Aug. 4.
Cable insulation cutter. E. F. Chisena. 2,647,309, Aug. 4.
Calcination. F. R. Kemmer. 2,647,739, Aug. 4.
Calculating machine. W. A. Parsons and H. E. Busch. 2,647,687, Aug. 4.
Camera with a picture strip moving transversely across the camera box, Reflex. J. J. Wolf, Jr. 2,647,449, Aug. 4.
Can opener cutter assembly. W. J. Landry. 2,647,307, Aug. 4.
Candlemaking apparatus. C. J. Schroeder. 2,647,279, Aug. 4.
Candlemaking apparatus. C. J. Schroeder. 2,647,282, Aug. 4.
Cap: *See*—
Closure cap.
Cap. D. D. Hutton. 2,647,259, Aug. 4.
Cap. D. D. Hutton. 2,647,264, Aug. 4.
Cap applying apparatus. M. Burnell. 2,647,672, Aug. 4.
Cap assembly, Free spinning. L. F. Samler and A. L. Genovese. 2,647,704, Aug. 4.
Car roof hatch cover operating mechanism. E. O. Lunde. 2,647,473, Aug. 4.
Carbonator, Household. A. J. Nicholas. 2,647,734, Aug. 4.
Card, Display. R. G. Ellis. 2,647,640, Aug. 4.
Carriage control at tabulation rebounding. H. C. Yaeger. 2,647,611, Aug. 4.
Carriage drive power control. W. T. Sagner. 2,647,609, Aug. 4.
Carrier: *See*—
Folding golf bag carrier. Gun carrier.
Case: *See*—
Cellular case.
Catalyst level indicator. E. V. Bergstrom. 2,647,405, Aug. 4.
Catalytic reduction of nitroolefins. J. B. Tindall. 2,647,930, Aug. 4.
Cellular case. P. A. Schilling, T. G. Mairs, and J. B. Baird. 2,647,679, Aug. 4.
Centrifugal method for the wet spinning of natural fibers and apparatus for carrying out this method. A. Bolelli. 2,647,358, Aug. 4.
Centrifugal separator. H. R. Drury. 2,647,686, Aug. 4.
Centrifugally operated torque limiting clutch. T. R. Smith. 2,647,603, Aug. 4.
Chain barker. Short wood. H. W. Guettler. 2,647,548, Aug. 4.
Chair: *See*—
Invalid child's bathing and amusement chair.
Chair and seat, Posture. W. C. Huebener. 2,647,560, Aug. 4.
Cholesteryl esters brominated in position 7. Production of. H. Schaltegger. 2,647,867, Aug. 4.
Characterizing hydrocarbon mixtures. C. D. Smith. 2,648,010, Aug. 4.
Circuit: *See*—
Counting circuit. Trigger circuit.
Transistor circuit.
Circuit breaker, High-voltage. J. D. Wood and A. S. Caswell. 2,647,972, Aug. 4.
Circuit for automotive vehicles, Automatic starter-energizing. G. L. Van Gastle. 2,648,016, Aug. 4.
Circuit for cathode-ray oscillograph, Beam-intensity controlling. W. A. Geohegan. 2,648,027, Aug. 4.
Circuit for obtaining electric bridge equilibrium. R. M. M. Oberman. 2,648,057, Aug. 4.
Circuit interrupter. D. M. Umphrey. 2,647,973, Aug. 4.
Clamp: *See*—
Eaves trough clamp. Saw clamp.
Electrode clamp. Stack clamp.
Clamp and rotating mechanism, Combination. F. Sherriff. 2,647,650, Aug. 4.
Clarification. E. M. Kelly. 2,647,869, Aug. 4.
Clarification. E. M. Kelly and A. M. Kivari. 2,647,870, Aug. 4.
Cleaner: *See*—
Belt cleaner.
Clip: *See*—
Telephone handset locking clip.
Clip clinching tool. W. D. Chilton. 2,647,814, Aug. 4.
Clock winding mechanism, Door actuated. M. Goodman. 2,647,361, Aug. 4.
Closure cap. H. W. Sanford. 2,647,652, Aug. 4.
Closure seal of cantilever type for vehicle bodies and the like. A. E. Flemming. 2,647,792, Aug. 4.
Clothespin holder. W. J. Cannon. 2,647,550, Aug. 4.
Clothes rack. P. F. White. 2,647,669, Aug. 4.
Clothes-washing machine. A. D. Lund. 2,647,387, Aug. 4.
Clutch: *See*—
Centrifugally operated torque limiting clutch. Overrunning clutch.
Electromagnetically operated friction clutch. Synchronized centrifugal clutch.
Clutch construction. C. A. Cook. 2,647,596, Aug. 4.
Clutch with quick actuator, Centrifugal. W. Carmichael. 2,647,604, Aug. 4.
Coil, Adjustable focusing. C. E. Walton. 2,648,036, Aug. 4.
Coin ejector for coin-operated timing mechanism. A. R. Dahlberg, R. T. Larson, and R. M. Chapman. 2,647,608, Aug. 4.
Coin operating mechanism. F. H. Hunter. 2,647,607, Aug. 4.
Color photographic film and process. G. B. Harrison and R. R. Robinson. 2,647,833, Aug. 4.
Color removal from esters. F. Dean. 2,647,868, Aug. 4.
Comb and powder applicator, Combined. D. K. Twiet. 2,647,490, Aug. 4.
Combustion chamber for fluid fuel burning in an air stream of high velocity. R. Leduc. 2,647,369, Aug. 4.
Communication system, High-frequency. G. F. Ziffer. 2,647,993, Aug. 4.
Commutator for dynamoelectric machines. C. A. Nichols, C. L. Clevenger, F. L. Zion, and W. A. Fletcher. 2,648,022, Aug. 4.
Comparator for assisting in the identification of unknown stains, colors, or the like. G. A. Yale. 2,647,433, Aug. 4.
Composing machine, Typographical. P. Hilpman and W. J. Bohm. 2,647,620, Aug. 4.
Composition tendon support. E. B. Topmiller. 2,647,510, Aug. 4.
Compound carburetion system. A. F. Braun. 2,647,502, Aug. 4.
Compressor. S. M. Schweller. 2,647,683, Aug. 4.
Condenser and shield for spark plugs, Sealed. E. C. Kiekhaefer. 2,648,030, Aug. 4.
Connector: *See*—
Balk connector. Battery terminal connector.
Battery connector.
Connector having insulating piercing barbs, Electrical. Q. Berg. 2,648,050, Aug. 4.
Connector of the eyelet type, Electrical. Q. Berg. 2,648,054, Aug. 4.
Constant tension means with mechanoelectrical torque-responsive control. J. S. Michie. 2,647,965, Aug. 4.
Container: *See*—
Bobby pin container. Lyophilization container.
Container blank to form into various containers. D. T. Bowden. 2,647,621, Aug. 4.
Container for paper rolls, Dispensing. L. R. White. 2,647,577, Aug. 4.
Container for perishable substances, Insulated. J. B. Dube. 2,647,653, Aug. 4.
Continuous grip transmission line apparatus. H. L. Rush. 2,647,699, Aug. 4.
Continuous hydrocarbon conversion with a silica-alumina-chromium oxide catalyst. C. J. Plank and R. C. Hansford. 2,647,860, Aug. 4.
Control center. E. F. Mekelburg. 2,648,032, Aug. 4.
Control for aerial torpedoes. R. H. Hill and J. H. Guyton. 2,647,707, Aug. 4.
Control for the landing gear of aircraft. J. F. Haverlin. 2,647,708, Aug. 4.
Control for turbine-driven compressors. J. M. Dolan. 2,647,682, Aug. 4.
Control mechanism for pneumatically operated railway dump cars. E. O. Lunde. 2,647,471, Aug. 4.
Control of wave length in wave guides. M. G. White. 2,648,000, Aug. 4.





Conveyer. S. J. Spurgeon and R. O. Kimbro. 2,647,617, Aug. 4.
Cooking device, Open fire. J. J. Shelley. 2,647,454, Aug. 4.
Coolant, Automotive. E. Da Fano. 2,647,874, Aug. 4.
Copolymers of vinyl phenols with butadiene compounds. E. M. Evans and J. E. S. Whitney. 2,647,883, Aug. 4.
Copolymers of vinyl phenols with drying oils. E. M. Evans, S. E. Bradshaw, and J. E. S. Whitney. 2,647,876, Aug. 4.
Copper, cobalt, and ammonium sulfate recovery from mineral leach liquors. P. J. McGauley. 2,647,819, Aug. 4.
Copyholder. J. Toggenburger. 2,647,491, Aug. 4.
Core chuck, Expansible. W. H. Cannard. 2,647,701, Aug. 4.
Counting circuit. A. Greenfield. 2,647,996, Aug. 4.
Counting device, Electronic. S. B. Williams. 2,647,997, Aug. 4.
Coupling: *See*—
Electromagnetic coupling. Pipe coupling.
Coupling device, High-frequency. R. L. Downey. 2,647,947, Aug. 4.
Cover for painting rollers, Detachable tubular. E. E. Thomas and S. T. Coughlan. 2,647,300, Aug. 4.
Cover to protect luggage, Supplementary. I. J. Meyers. 2,647,595, Aug. 4.
Covering for awnings and the like. D. H. Ruggles. 2,647,292, Aug. 4.
Crane and bulldozer, Combination. E. A. Brugger. 2,647,331, Aug. 4.
Crimping textile fibers. J. H. Pfau. 2,647,285, Aug. 4.
Cultivator, Motor-propelled. S. Smith. 2,647,450, Aug. 4.
Current-limiting fusible protective device. W. S. Edsall and K. W. Swain. 2,647,970, Aug. 4.
Curtain fixture. R. J. Cieslik. 2,647,644, Aug. 4.
Curving a flat molded plastic printing plate. H. M. Richardson and W. Baumrucker, Jr. 2,647,284, Aug. 4.
Cutter: *See*—
Cable insulation cutter.
Cutter bit and holder therefor. H. M. Stephens. 2,647,737, Aug. 4.
Cylinder and piston construction. H. C. Schindler. 2,647,809, Aug. 4.
Cylinder head for internal-combustion engines, Cooled. E. Stump. 2,647,497, Aug. 4.
Dam for arresting bleeding in the internal body cavities, Inflatable. R. K. Pollock and J. M. Gapstur. 2,647,515, Aug. 4.
Dampener, Vibration. J. F. Young. 2,647,591, Aug. 4.
Davit, Boat. K. L. Cappel. 2,647,209, Aug. 4.
Decimal to binary conversion machine. A. W. Bowyer and J. R. Cartwright. 2,647,689, Aug. 4.
Decomposition of copper scrap and alloys with copper ammonium carbonate solutions. P. J. McGauley and P. J. Masur. 2,647,829, Aug. 4.
Deflector vane structure for spray nozzles. S. P. Kinney. 2,647,799, Aug. 4.
Dehalogenation of organic compounds. J. C. Hillyer and C. H. Ice. 2,647,934, Aug. 4.
Density measuring device. S. J. Smith and T. Weber, Jr. 2,647,395, Aug. 4.
Derivatives of tropic acid and the manufacture thereof. G. Rey-Bellet. 2,647,904, Aug. 4.
Design forming and attaching method. A. W. Franklin. 2,647,852, Aug. 4.
Determining frequency, Method and apparatus for. G. D. Paxson. 2,647,998, Aug. 4.
Determining the specific gravity and water content of concrete aggregates. 2,647,394, Aug. 4.
Developer and sheller, Shrimp. H. Weinberger. 2,647,278, Aug. 4.
Device for dividing fruits. H. Koch. 2,647,549, Aug. 4.
Device for elastically transferring forces. J. J. Warmoes and L. A. A. J. Closkin. 2,647,412, Aug. 4.
Device to resist the disarming of bombs. J. Rabinow. 2,647,465, Aug. 4.
Diaphragm for storage tanks. C. P. Krupp. 2,647,657, Aug. 4.
Die for making transformer core laminations, Adjustable. F. L. Patterson. 2,647,575, Aug. 4.
Die set handling flange and coacting hook. K. Janiszewski. 2,647,784, Aug. 4.
Diethyl benzoylsuccinate, Preparing. T. M. Patrick, Jr., and E. W. Gluesenkamp. 2,647,917, Aug. 4.
Differential gearing power transmission. L. A. Trofimov. 2,647,417, Aug. 4.
Dimethyl silicon dichloride, Production of. A. J. Barry and J. W. Gilkey. 2,647,912, Aug. 4.
Diphenyl-dimethyl-aminovaleramide. M. E. Speeter. 2,647,926, Aug. 4.
Directional valve. E. O. Lunde. 2,647,536, Aug. 4.
Disengagement of gases from fluent solid particles in the conversion of hydrocarbons, Process and apparatus for the. J. W. Barker. 2,647,859, Aug. 4.
Dishwashing apparatus. O. J. Borngesser, R. B. Bradshaw, and C. C. Smith. 2,647,528, Aug. 4.
Dishwashing machine. W. Butler. 2,647,527, Aug. 4.
Disk harrow gang and bearing. R. M. Kraus. 2,647,805, Aug. 4.
Dispenser: *See*—
Flush tank disinfectant Self-measuring milk dispenser. Paper pulp beating dispenser.
Seasoning dispenser.
Dispenser and recorder, Metering liquid. J. P. Arena. 2,647,660, Aug. 4.
Dispenser for pressure-sensitive tape. O. P. Erhardt. 2,647,745, Aug. 4.
Dispensing device. G. W. Mason and B. D. Gee. 2,647,625, Aug. 4.
Dispenser for pressure-sensitive tape. A. P. Krueger. 2,647,746, Aug. 4.
Dispensing spool of adhesive tape and supporting enclosure therefor. H. Lathrop. 2,647,700, Aug. 4.
Distributing device for powdered or granular material. B. P. Allersma. 2,647,756, Aug. 4.
Distribution of supplies to laundry washers. A. Erlanger. 2,647,384, Aug. 4.
Ditching and cable laying machine, Elevatable and tiltable. F. B. Ryan. 2,647,758, Aug. 4.
Doll construction. V. A. Patterson. 2,647,342, Aug. 4.
Domestic appliance. R. R. Candor. 2,647,385, Aug. 4.
Door construction, Automobile. E. L. Blackman. 2,647,790, Aug. 4.
Door control means, Dump car. E. O. Lunde. 2,647,472, Aug. 4.
Door holder. R. A. Fisk. 2,647,782, Aug. 4.
Door or hopper, Chute intake. C. M. Wilkinson. 2,647,605, Aug. 4.
Dough transfer device for loaf molding apparatus. M. A. Sticeiber. 2,647,612, Aug. 4.
Drain plug for pipe lines. O. O. Beymer. 2,647,533, Aug. 4.
Drapery hook. P. Levine. 2,647,574, Aug. 4.
Drill: *See*—
Ratchet-type drill.
Drive mechanism. L. M. Barker. 2,647,752, Aug. 4.
Drive transmission for motor vehicles, Flexible. A. P. Turner and H. G. Blumberg. 2,647,410, Aug. 4.
Dual control attachment for automobiles. J. E. Nafe, Sr., and C. C. Christy. 2,647,414, Aug. 4.
Dye fluid dispensing meter. H. L. Stafford. 2,647,663, Aug. 4.
Dynamoelectric machine member. D. R. Meier. 2,648,018, Aug. 4.
Earring, Piercing. L. Ferro. 2,647,379, Aug. 4.
Eaves trough clamp. M. W. Gibbons. 2,647,476, Aug. 4.
Electric automatic operating apparatus for mechanical speed changing devices, particularly for motor cars. A. Filocamo. 2,647,411, Aug. 4.
Electric resistances. E. Weides. 2,647,977, Aug. 4.
Electric switch. J. A. E. Marcoz. 2,647,969, Aug. 4.
Electrical butt seam welding or cutting process and apparatus for carrying out said process. A. Wögerbauer. 2,647,981, Aug. 4.
Electrical contact device. W. R. Jack and L. D. Cahill. 2,647,975, Aug. 4.
Electrical indicating means. G. W. Hostetler. 2,648,059, Aug. 4.
Electrical resistor. W. Kasten and L. C. Anderson. 2,647,976, Aug. 4.
Electrode clamp. W. E. Moore. 2,647,936, Aug. 4.
Electrography. J. P. Ebert. 2,647,464, Aug. 4.
Electrolytic barrier and electrolyte, Combined. W. H. Taylor. 2,647,938, Aug. 4.
Electromagnet, Alternating current. J. F. H. Douglas and C. T. Evans. 2,648,034, Aug. 4.
Electromagnetic coupling. R. L. Jaeschke. 2,648,020, Aug. 4.
Electromagnetically operated friction clutch. F. S. Malick. 2,647,601, Aug. 4.
Electromechanical filter. W. van B. Roberts and L. L. Burns, Jr. 2,647,948, Aug. 4.
Electron discharge device. G. J. Agule. 2,648,025, Aug. 4.
Electronic hardness sorter. M. J. Diamond. 2,647,628, Aug. 4.
Electroplating of nickel. H. Brown. 2,647,866, Aug. 4.
Elevation meter. F. L. Johnson and F. M. Mayes. 2,647,323, Aug. 4.
Elevator, Hydraulic. C. A. Anderson, Jr. 2,647,590, Aug. 4.
Engine: *See*—
Gas turbine engine. Paper pulp beating engine.
Internal-combustion engine.
Engine and turbine, Combined internal-combustion. J. L. Stott. 2,647,363, Aug. 4.
Engine casing construction, Internal-combustion. M. Ware. 2,647,494, Aug. 4.
Engine having special cooling means therein, Two-cycle internal-combustion. L. R. Carpenter. 2,647,496, Aug. 4.
Engine power unit for locomotives, Internal-combustion. L. F. R. Feli. 2,647,372, Aug. 4.
Engine with spontaneously ignitable fuel and oxidizer, Pulse jet. L. L. Dreibelbis. 2,647,364, Aug. 4.
Esters of alpha, beta-dichloropropionic acid, Preparing. C. D. Burton. 2,647,923, Aug. 4.
Etching process. D. L. Goffredo. 2,647,864, Aug. 4.
Etherification of vinyl phenol polymers and copolymers. E. M. Evans and J. E. S. Whitney. 2,647,882, Aug. 4.
Expansion bolt. W. J. Lewis. 2,647,431, Aug. 4.
Extraction of pectin from sugar beet waters. A. E. Bishop. 2,647,890, Aug. 4.

Fabric with a through-to-the-back bind, Pile. W. M. Ryan. 2,647,546, Aug. 4.
Fabricating sheet materials, Method and apparatus for. J. M. Sharf. 2,647,553, Aug. 4.
Facsimile machine and system employing electric stylus transmission and recording. G. H. Ridings, J. H. Hackenberg, and G. B. Worthen. 2,647,945, Aug. 4.
Fastener: *See*—
Releasable fastener.
Feed compressing machine. A. Popick. 2,647,474, Aug. 4.
Feed mechanism for internal grinding machines. R. S. Hahn. 2,647,348, Aug. 4.
Feed mechanism for sewing machines. J. Court. 2,647,481, Aug. 4.
Fence post anchoring means, Adjustable. J. H. Holman. 2,647,593, Aug. 4.
Fiber glass mat, Making a. R. E. Schwartz. 2,647,851, Aug. 4.
Fibrous product of the nonwoven fabric type and making it, Cockled. O. A. Battista. 2,647,297, Aug. 4.
File guide. E. L. Lee. 2,647,520, Aug. 4.
Filter: *See*—
Electromechanical filter.
Filter. L. H. Hove, E. J. Hankes, and M. M. Perry. 2,647,635, Aug. 4.
Filter. J. M. Leet. 2,647,637, Aug. 4.
Filter cartridge. W. K. Greene. 2,647,633, Aug. 4.
Fire rescue apparatus. W. J. Bernett. 2,647,675, Aug. 4.
Fire safety appliance for application to the outside of windows. A. F. Wintercorn. 2,647,293, Aug. 4.
Fishing reel. K. B. Donnell. 2,647,341, Aug. 4.
5-aralkylamino-9-dialkylaminobenzo[a] phenoxazine compounds and preparing same. M. L. Crossley and P. F. Dreisbach. 2,647,895, Aug. 4.
Flap folding means. N. André. 2,647,447, Aug. 4.
Flatiron rest and cord control, Universal combination collapsible. J. A. Werschinig. 2,647,713, Aug. 4.
Floating roof for tanks. A. Cibulka. 2,647,654, Aug. 4.
Floor mat, Mechanical. R. H. Ryzenga. 2,647,271, Aug. 4.
Flotation of uranium. P. L. Veltman. 2,647,629, Aug. 4.
Flow control valve. W. F. Berck. 2,647,531, Aug. 4.
Flowmeter, Thermal. C. M. Hathaway. 2,647,401, Aug. 4.
Fluid actuated governor control. W. J. Whitehead and G. E. Parker. 2,647,493, Aug. 4.
Fluid mixing chamber. J. O. Jarman. 2,647,732, Aug. 4.
Fluid pressure valve. H. W. Trevaskis. 2,647,535, Aug. 4.
Fluid seal. C. H. Berner. 2,647,773, Aug. 4.
Fluid vessel. M. Frisch. 2,647,656, Aug. 4.
Fluorescent screen. J. S. Smith. 2,648,013, Aug. 4.
Flush tank disinfectant dispenser. A. N. Vierra. 2,647,266, Aug. 4.
Folding golf bag carrier. W. H. Jamieson and W. H. Jamieson, Jr. 2,647,762, Aug. 4.
Folding ironing board. A. J. Olshefski. 2,647,333, Aug. 4.
Folding rack. J. Kosash. 2,647,642, Aug. 4.
Fork for tractors, Trash moving. O. L. Maynard. 2,647,649, Aug. 4.
Forming alkaline earth metal-beryllium double fluoride compounds. H. C. Kaweckl. 2,647,817, Aug. 4.
Forming and testing specimens of molding material. H. W. Dietert. 2,647,937, Aug. 4.
Forming large upsets, Method and apparatus for. L. F. Knight and A. Pitt. 2,647,979, Aug. 4.
Frequency generator. F. S. Mabry. 2,648,006, Aug. 4.
Front surface mirror improved by transparent protective overcoating. R. W. Boydston and A. J. Eshner. 2,647,441, Aug. 4.
Furniture, Reclining article of. F. Richardson. 2,647,559, Aug. 4.
Game apparatus, Football target. H. E. Kenney and A. H. Seidler. 2,647,747, Aug. 4.
Game, Dart. L. H. Barringer, Jr. 2,647,748, Aug. 4.
Gas turbine engine. A. A. Lombard. 2,647,684, Aug. 4.
Gauge: *See*—
Grinder gauge. Presser foot gauge.
Liquid level gauge. Printer's gauge.
Gauging apparatus for grinding machines and the like. F. W. Blanchette. 2,647,347, Aug. 4.
Gauging device. W. F. Aller and A. J. Page. 2,647,456, Aug. 4.
Gauging device. W. F. Aller and A. J. Page. 2,647,627, Aug. 4.
Gauging device, Pneumatic. W. F. Aller. 2,647,396, Aug. 4.
Generator: *See*—
Frequency generator. Voltage regulating generator.
Vapor generator.
Glassware lehr loader. C. E. Launius and H. L. Brewer. 2,647,613, Aug. 4.
Gravel spreader. G. J. Osterfeld. 2,647,448, Aug. 4.
Grease composition. W. H. Peterson. 2,647,872, Aug. 4.
Grinder gauge. P. H. Conradson. 2,647,346, Aug. 4.
Grinder, Leaf. J. M. Williams and T. L. May. 2,647,694, Aug. 4.
Grinding machine. H. A. Silven. 2,647,349, Aug. 4.
Grinding wheel truing apparatus. O. E. Hill. 2,647,504, Aug. 4.
Guitarist's steel bar. C. F. Smith. 2,647,429, Aug. 4.
Gun carrier. R. O. and K. E. Brown. 2,647,667, Aug. 4.
Gun shell feeding mechanism. S. Schiff. 2,647,442, Aug. 4.
Hammer, Pile driving. N. G. Bell. 2,647,373, Aug. 4.
Hammer shroud for revolvers. J. M. McNally. 2,647,338, Aug. 4.
Hand tool. E. C. Neal. 2,647,312, Aug. 4.
Handle: *See*—
Latch releasing door handle.
Hanger: *See*—
Wall supported hanger.
Hanger construction, Garment. M. H. Friedler. 2,647,666, Aug. 4.
Harvesting attachment for vehicles, Corn. R. L. Dort. 2,647,353, Aug. 4.
Hat well. J. Polito. 2,647,665, Aug. 4.
Headlight bezel ring mounting. R. N. Paige. 2,647,984, Aug. 4.
Headrest, Adjustable. L. J. Milne, A. J. Rawson, and H. K. Hartline. 2,647,438, Aug. 4.
Hearing aid assembly adapted for head wear. J. C. Stalcup. 2,647,955, Aug. 4.
Heat retaining means for hydrogen thyratron. M. L. Yenter. 2,648,024, Aug. 4.
Heat sealing apparatus. G. J. Selvin. 2,647,557, Aug. 4.
Heat-treating a fluent substance. C. J. Lockman. 2,647,570, Aug. 4.
Heater: *See*—
Automobile heater.
Thermoelectric space heater.
Heater for oil and other wells. G. H. Roberts. 2,647,585, Aug. 4.
Heater with air-cooled motor, Forced air space. S. J. Helman. 2,647,506, Aug. 4.
Heating powdered material. R. P. Trainer. 2,647,738, Aug. 4.
Heating system, Water. E. R. Miller. 2,647,370, Aug. 4.
Hemmer. A. J. Gentillo. 2,647,479, Aug. 4.
High power transmit-receive box. L. D. Smullin. 2,647,952, Aug. 4.
Hoist structure. J. R. Coffing. 2,647,724–5, Aug. 4.
Holder: *See*—
Brush holder. Pen or pencil holder.
Clothespin holder. Picnic cloth holder.
Door holder. Tie holder.
Level holder.
Holder and carrier, Bottle. R. H. Locke. 2,647,786–7, Aug. 4.
Holder for articles, Sanitary. L. A. Casnati. 2,647,785, Aug. 4.
Holder for assembled sheets. H. Brechner. 2,647,765, Aug. 4.
Holder for connecting devices. I. S. Gordon. 2,647,424, Aug. 4.
Holder for paper plates and the like. D. J. Olson. 2,647,678, Aug. 4.
Holder for steel wool. P. F. Schenot. 2,647,275, Aug. 4.
Hook: *See*—
Drapery hook.
Hop picking machine. G. E. Miller. 2,647,521, Aug. 4.
Hop stem separator. E. Thys. 2,647,620, Aug. 4.
Hose supporter. N. Levenson. 2,647,265, Aug. 4.
Hydraulic apparatus. C. E. Adams. 2,647,455, Aug. 4.
Hydraulically operated vulcanizing press. H. H. O. Grieshammer. 2,647,554, Aug. 4.
Hydrodesulfurization process. W. A. Horne. 2,647,857, Aug. 4.
Hydroxy ether sulfates having high surface-activity. M. Kosmin. 2,647,913, Aug. 4.
Idler mechanism for conveyer belts. C. G. McLachlan. 2,647,618, Aug. 4.
Illumination fixture and louvers therefor. D. J. Biller. 2,647,985, Aug. 4.
Impeller structure, Centrifugal. L. G. Srogi. 2,647,685, Aug. 4.
Impregnating leather with rubber compositions. R. Oehler. 2,647,844, Aug. 4.
Impregnation of leather. R. Oehler and J. R. Kanagy. 2,647,840, Aug. 4.
Improving the flex resistance of butadiene-1,3 type polymers. R. L. Sibley. 2,647,879, Aug. 4.
Inactivation of enzymes by barium peroxide. J. W. Pfannmuller and A. F. Noß. 2,647,854, Aug. 4.
Indexing device for adding machines, Multizero. W. A. Anderson. 2,647,690, Aug. 4.
Indicator: *See*—
Catalyst level indicator. Surface test indicator.
Infant feeding bottle support. R. J. Drill. 2,647,714, Aug. 4.
Injectable solution of salt of para-amino-salicylic acid. R. Lardé and M. Pesez. 2,647,833, Aug. 4.
Inorganic oxide gel, Preparing an. M. M. Marisic. 2,647,875, Aug. 4.
Instruction accessory for chess games. G. F. Wales. 2,647,749, Aug. 4.
Instrument, Dental matrix. L. H. Dvorak. 2,647,315, Aug. 4.
Insulator, Electrical. H. Kreisler. 2,647,943, Aug. 4.
Interferometer using liquid mirrors. T. W. Zobel and F. Mirus. 2,647,434, Aug. 4.
Interfitting machined parts. M. S. Black and A. G. Satterla, Jr. 2,647,847, Aug. 4.





Internal-combustion engine. H. J. Hickey. 2,647,498, Aug. 4.
Internally cooling gas turbine blades with air, fuel, and water, Method and apparatus for. H. Triebbnigg and O. David. 2,647,368, Aug. 4.
Invalid child's bathing and amusement chair. F. Szabo. 2,647,561, Aug. 4.
Isocyanates and products prepared therefrom and making the same. V. P. Wystrach. 2,647,884, Aug. 4.
Isolation of 2,4-diaminopteridines. J. A. Schmitt. 2,647,898, Aug. 4.
Joint: *See*—
Sealed telescopic pipe joint.
Knife sharpener. W. P. Arnold. 2,647,351, Aug. 4.
Knitting machine sinker controlling means. K. Howle. 2,647,382, Aug. 4.
Ladder. P. A. Napiecinski. 2,647,676, Aug. 4.
Lamp: *See*—
Self-ballasting gaseous discharge lamp.
Latch. B. J. Craig. 2,647,781, Aug. 4.
Latch mechanism. H. G. Knuth. 2,647,780, Aug. 4.
Latch releasing door handle. G. V. Jakeway. 2,647,783, Aug. 4.
Laundry apparatus. C. C. Scheele. 2,647,632, Aug. 4.
Leadin bushing. L. A. Borden and J. C. Powelson. 2,647,942, Aug. 4.
Leno weaving. E. C. Nichols. 2,647,541, Aug. 4.
Lettering film. D. J. Douglas, P. V. Palmquist, and J. D. Grove. 2,647,848–9, Aug. 4.
Level holder. R. Sandmoen. 2,647,712, Aug. 4.
Lever actuated tire bead loosening tool. D. D. Patterson. 2,647,565, Aug. 4.
Lighter for handicapped persons, Pyrophoric. I. Florman. 2,647,383, Aug. 4.
Liquid applicator. P. S. Eagle. 2,647,273, Aug. 4.
Liquid level gauge. I. Sorensen. 2,647,406, Aug. 4.
Liquid level indicating device. H. R. Breedlove. 2,648,058, Aug. 4.
Load application unit. J. W. Gaines. 2,647,400, Aug. 4.
Lock: *See*—
Bicycle lock. Rotary cylinder lock.
Lock for engines, Ignition. G. W. Baumann. 2,647,937, Aug. 4.
Lock for sectional, folding table tops. R. L. Norris, Jr. 2,647,811, Aug. 4.
Locking device for indicating and control apparatus. T. M. Mathison. 2,647,484, Aug. 4.
Locking means, Vehicle door. C. A. Chayne. 2,647,789, Aug. 4.
Locking mechanism. F. M. Jones. 2,647,287, Aug. 4.
Locking reels on arbors, Means for. C. E. Orr. 2,647,775, Aug. 4.
Loom for weaving tufted pile fabrics. I. B. Bassindale. 2,647,543–4, Aug. 4.
Louver. S. M. Ferman. 2,647,453, Aug. 4.
Low tire indicator switch. S. K. Moot. 2,647,967, Aug. 4.
Lubricating compositions. J. B. Matthews and T. R. Grimshaw. 2,647,873, Aug. 4.
Luminescent screens, Preparation of. M. L. Perl and J. R. Elliott. 2,647,841, Aug. 4.
Lyophilization container. A. D. Holmes. 2,647,513, Aug. 4.
Machine for applying precious metal decorative bands to glass tumblers. G. E. Ryckman. 2,647,489, Aug. 4.
Machine for drilling, tapping, and inserting stops in a pipe. N. E. Dickason. 2,647,419, Aug. 1.
Machine for punching records. C. E. Connolly. 2,647,580, Aug. 4.
Machine for rolling tapered disks. H. J. Horn. 2,647,423, Aug. 4.
Machine for tapering sheet metal blanks. H. J. Horn. 2,647,422, Aug. 4.
Machine for vulcanizing rubber soles on boots and shoes, Automatic. G. Mediano Capdevila. 2,647,281, Aug. 4.
Machine tool drive, Hydraulic. A. A. Ericson. 2,647,371, Aug. 4.
Machine tool spindle construction. E. J. Hirvonen. 2,647,407, Aug. 4.
Magnesium-alloy-block edge-active driving belt. P. B. Reeves. 2,647,410, Aug. 4.
Magnet control. W. J. Hudson. 2,648,033, Aug. 4.
Magnetically recording and mechanism therefor. H. A. Howell. 2,647,954, Aug. 4.
Magnetometer, Piezoelectric. R. A. Wallanschek. 2,648,046, Aug. 4.
Magnetron. J. T. Randall and H. A. Boot. 2,648,028, Aug. 4.
Manifold for internal-combustion engines, Admission. R. H. Tissier. 2,647,503, Aug. 4.
Manifold with manually actuated valves for controlling fluid flow. W. F. Berck. 2,647,659, Aug. 4.
Manipulating fishlines, Method of and apparatus for. K. B. Donnell. 2,647,339, Aug. 4.
Manually and fluid-pressure operated valve. P. P. Demay. 2,647,538, Aug. 4.
Manufacture of Pottery, Method and apparatus for. R. E. Gould. 2,647,295, Aug. 4.
Manufacturing tubular insulation. H. J. Shive. 2,647,296, Aug. 4.
Massaging roller. A. A. Studier. 2,647,509, Aug. 4.
Measurement of injection profiles. M. G. Arthur. 2,648,014, Aug. 4.
Measuring apparatus. T. R. Harrison. 2,648,037, Aug. 4.
Measuring apparatus, Flow. E. R. Fenske. 2,647,403, Aug. 4.
Measuring device, Distance and angle. J. B. Eliason. 2,647,322, Aug. 4.
Mechanism for automatic annual date indicator. C. A. Balzeau. 2,647,359, Aug. 4.
Mechanism for dispensing liquid from a plurality of supply containers. L. M. Harvey. 2,647,061, Aug. 4.
Medicament applicator. J. R. Johnson. 2,647,512, Aug. 4.
Metal forming and welding machine. W. E. Price. 2,647,483, Aug. 4.
Meter: *See*—
Dye fluid dispensing meter. Elevation meter.
Meter top and index box. F. Whitworth. 2,647,404, Aug. 4.
Metering mechanism, Flow. H. W. Ibbott. 2,647,402, Aug. 4.
Method and apparatus for splicing. D. J. Hinman. 2,647,555, Aug. 4.
Methylated pyrazoleanthronebenzanthrones. D. I. Randall. 2,647,899, Aug. 4.
Methylhydrogenpolysiloxane, Production of. S. Nitzsche and E. Pirson. 2,647,911, Aug. 4.
Microphone suspension, Flexible. E. B. Newman and J. Volkmann. 2,647,956, Aug. 4.
Microwave phase shifter. J. F. Zaleski. 2,647,950, Aug. 4.
Microwave power divider and switch. J. F. Zaleski. 2,647,951, Aug. 4.
Mixing valve. D. W. Keller and V. E. Rimsha. 2,647,692, Aug. 4.
Mixing valve. H. E. Klingler. 2,647,537, Aug. 4.
Mixing valve. C. G. Wall. 2,647,529, Aug. 4.
Molding. E. C. Quear, W. C. Shaw, and J. R. Edwards. 2,647,283, Aug. 4.
Molecularly aligned sheet material. M. P. Rehorn. 2,647,440, Aug. 4.
Monosulfonated saturated aliphatic dicarboxylic acids, Preparing. E. E. Gilbert and S. L. Giolito. 2,647,925, Aug. 4.
Motor: *See*—
Reso-jet motor.
Motor control system, Reversible. E. Schneider. 2,648,040, Aug. 4.
Motor for dental units, Patient controlled electric. M. F. Grögl and A. Roe. 2,648,043, Aug. 4.
Motor fuel selector assembly. E. L. Haynie. 2,647,566, Aug. 4.
Motor vehicle seat. A. Rappl. 2,647,558, Aug. 4.
Mounting: *See*—
Axle mounting. Reproducer mounting.
Headlight bezel ring mounting. Shock mounting.
Phonograph pickup mounting. Wire reel mounting.
Mounting for textile spindles. H. A. Simmons. 2,647,806, Aug. 4.
Mounting for tractor mowers, Resilient universal. J. E. Horste. 2,647,354, Aug. 4.
Multicontact relay. N. H. Saunders, C. J. Hackett, and J. I. Bellamy. 2,647,961, Aug. 4.
Multivibrator. M. S. Wheeler. 2,648,004, Aug. 4.
Music box comb and sounding board construction. T. R. Duncan. 2,647,427, Aug. 4
Musical instrument, Electrically operated. W. F. and M. A. Battle. 2,647,426, Aug. 4.
Muting bar for electrical musical instruments. A. L. Schilling. 2,647,430, Aug. 4.
N-carboxyanhydrides of glycine, Preparation of. G. A. Richardson. 2,647,907, Aug. 4.
N-substituted carbamate, Preparing an. D. W. Kaiser. 2,647,916, Aug. 4.
N-(2-keto-3-oximinoalkyl)-p-amino-benzoate compounds. D. I. Weisblat and R. J. Magerlein. 2,647,915, Aug. 4.
Necktie finisher. C. C. Palmatier and F. L. Wehren. 2,647,664, Aug. 4.
9-(2,3-dihydroxypropylaminoethylamino)-acridines and their preparation. A. R. Surrey and R. K. Bair. 2,647,900, Aug. 4.
Nitric oxide recovery system. R. D. Pike. 2,647,822, Aug. 4.
Noncorrosive choline chloride composition. F. W. Schmitz. 2,647,927, Aug. 4.
Nonfretting antifriction bearing. L. C. Brunstrum. 2,647,807, Aug. 4.
Nozzle and distributor head, Fire extinguishing. T. W. Burnam and G. D. Ramsay. 2,647,800, Aug. 4.
Nozzle assembly for fire-fighting equipment. E. D. Ballard. 2,647,798, Aug. 4.
Nozzle, Paint spraying. C. L. Lycan. 2,647,861, Aug. 4.
Nuclear well logging. S. A. Scherbatskoy. 2,648,012, Aug. 4.
Oil burner. E. F. Ciglia. 2,647,567, Aug. 4.
Oil cleaner for internal-combustion engines. W. A. Barton. 2,647,634, Aug. 4.
Oil cooler protective means. W. D. Teague, Jr. 2,647,730, Aug. 4.
Oil decolorization method. P. B. Weisz. 2,647,858, Aug. 4.
1-(tertiary-aminoalkylamino)acridones and their preparation. S. Archer. 2,647,901, Aug. 4.
Opener, Can. W. J. Landry. 2,647,306, Aug. 4.
Opener, Envelope. S. O. Ohlsson. 2,647,313, Aug. 4.

Organic antimony derivatives of polyhydroxy alkanoic or alkanedioic acids and their preparation. S. Archer and R. K. Bair. 2,647,910, Aug. 4.
Orientation system. N. E. Klein and J. W. Wright. 2,648,042, Aug. 4.
Oscillator, Klystron. J. W. Taylor, Jr. and W. S. Parnell. 2,648,005, Aug. 4.
Overload release device. W. A. Anderson. 2,647,600, Aug. 4.
Overrunning clutch. J. E. Storer, Jr. and W. G. Livezey. 2,647,599, Aug. 4.
Oxygen mask. E. Barach. 2,647,511, Aug. 4.
Oxy-oxoesters and acids and their preparation. T. M. Patrick, Jr. 2,647,919, Aug. 4.
Pad: *See*—
Test pad.
Painting appliance of the detachable rolling sleeve type. E. E. Thomas. 2,647,299, Aug. 4.
Paper pulp beating engine. E. Illéry and K. A. Thorsen. 2,647,444, Aug. 4.
Paper stop for business machines, Adjustable. A. H. Sharpe. 2,647,610, Aug. 4.
Partial synthesis of pregnenolone. F. W. Heyl and M. E. Herr. 2,647,909, Aug. 4.
Pen or pencil holder. C. R. Bilbrey. 2,647,517, Aug. 4.
Penicillin salts of methylpentylamine. V. V. Young. 2,647,893, Aug. 4.
Phonograph pickup mounting. P. C. Goldmark. 2,647,753, Aug. 4.
Photographic element and process of coating, Light-sensitive. C. Weaver. 2,647,835, Aug. 4.
Photographic film elements. S. H. Patten. 2,647,836, Aug. 4.
Photographic plates, Framed. W. Rabkin and L. Baron. 2,647,834, Aug. 4.
Photometer, Electronic. J. J. Shapiro. 2,647,436, Aug. 4.
Picnic cloth holder. S. J. Disera. 2,647,718, Aug. 4.
Picture unit for stereopticons. G. P. Bentley and F. House. 2,647,437, Aug. 4.
Pin: *See*—
Venetian blind tape retaining pin.
Pipe: *See*—
Smoking pipe.
Pipe coupling. J. B. Smith. 2,647,769, Aug. 4.
Pipe coupling for suction lines, Valved. A. E. Anderson. 2,647,767, Aug. 4.
Pipe fittings and the like, Manufacturing. F. Ziherl. 2,647,303, Aug. 4.
Pipe joint intersector. S. A. Grubich. 2,647,319, Aug. 4.
Pipe releasing means. C. R. Edwards. 2,647,727, Aug. 4.
Planing surface for aircraft and hydrocraft. D. B. Doolittle and J. R. Walden. 2,647,709, Aug. 4.
Planter constructed to accommodate various types of hoppers. W. P. Oehler. 2,647,622, Aug. 4.
Plastic tall oil rosin fraction. D. E. Floyd. 2,647,888, Aug. 4.
Platen control mechanism for welding machines. C. D. Moore. 2,647,980, Aug. 4.
Platform to be used in connection with toy trains, Launching. N. Saunders. 2,647,469, Aug. 4.
Pneumatic unloader. P. R. Hornbrook. 2,647,802, Aug. 4.
Pocketknife, Detachable blade. T. R. Arden. 2,647,311, Aug. 4.
Pole extension. J. W. Garrison. 2,647,715, Aug. 4.
Polyethylene terephthalate using antimony trioxide as polymerization catalyst, Production of. H. R. Billica. 2,647,885, Aug. 4.
Portable rack. B. D. Cruikshank. 2,647,643, Aug. 4.
Power divider. D. E. Rowe. 2,647,953, Aug. 4.
Power regulation in high-frequency heating apparatus. B. Boyd. 2,647,983, Aug. 4.
Power system for a plurality of motors. J. M. Pestarini. 2,648,039, Aug. 4.
Power transmission. L. C. Weathers. 2,648,045, Aug. 4.
Power transmission and change speed clutch mechanism therefor. T. Iavelli. 2,647,598, Aug. 4.
Precipitation of pure metallic copper from copper-bearing solutions. E. S. Roberts. 2,647,825, Aug. 4.
Preparing hops by catalytic isomerization of hummulon. V. Salač. 2,647,837, Aug. 4.
Press: *See*—
Hydraulically operated Punch press.
vulcanizing press.
Presser foot gauge. M. Murino. 2,647,480, Aug. 4.
Preventing ice formation in jet propulsion and gas turbine engines, Means for. W. J. McCann. 2,647,366, Aug. 4.
Printer's gauge. C. C. Sauer. 2,647,326, Aug. 4.
Printing machine, Record controlled duplicate. E. J. Rabenda. 2,647,460, Aug. 4.
Printing means in accounting machines, Settable. E. E. Murphy. 2,647,459, Aug. 4.
Printing mechanism for accounting machines, Symbol. R. A. Christian, A. J. Strachan, and P. H. Williams. 2,647,688, Aug. 4.
Printing mechanism, Ticket. M. A. Goodbar and R. G. Pratt. 2,647,458, Aug. 4.
Producing a crystalline mixture of hexamethylenetetramine thiocyanic acid and ammonium sulphate. E. Weldner. 2,647,897, Aug. 4.
Production of short paper rolls from long paper rolls. N. Marcalus. 2,647,576, Aug. 4.
Projectile radio sonde. H. E. Tatel and E. W. Trainer. 2,647,991, Aug. 4.
Projector, Motion picture. O. R. Nemeth. 2,647,435, Aug. 4.
Promoting polymerization. M. M. Lee. 2, 647,878, Aug. 4.
Providing from plane images the appearance of solid objects, Method and apparatus for. R. L. de Montebello. 2,647,336, Aug. 4.
Pulley drive, Nonslip. D. B. Keim. 2,647,409, Aug. 4.
Pulse generating apparatus. E. L. C. White. 2,647,046, Aug. 4.
Pump: *See*—
Screw pump.
Punch press. H. E. Magnuson and W. J. Moren. 2,647,552, Aug. 4.
Punch press for notching. O. V. Dutro and J. F. Nameth. 2,647,579, Aug. 4.
Punching machine, Record card. E. W. Gardinor and A. B. Crowell. 2,647,581, Aug. 4.
Pure copper metal from copper-bearing scrap, Preparation of. L. N. Allen, Jr., P. J. McGauley, and E. S. Roberts. 2,647,830, Aug. 4.
Pure copper metal from copper-bearing scrap, Preparation of. L. N. Allen, Jr., P. J. McGauley, and E. S. Roberts. 2,647,832, Aug. 4.
Pure copper metal from nonferrous metal-bearing scrap, Preparation of. L. N. Allen, Jr., P. J. McGauley, and E. S. Roberts. 2,647,831, Aug. 4.
Purification of α-chloroacrylic acid esters. W. O. Ney, Jr. 2,647,922, Aug. 4.
Purification of ketones by distillation. W. M. Drout, Jr. 2,647,861, Aug. 4.
Puzzle, Educational. S. M. Ford. 2,647,330, Aug. 4.
Rffr from Rc coob, Making of. J. D. La Zerte, W. H. Pearlson, and E. A. Kauck. 2,647,033, Aug. 4.
Rack: *See*—
Clothes rack. Portable rack.
Folding rack. Towel lock rack.
Radial back-off process and apparatus for grinders. F. J. Lamberty. 2,647,352, Aug. 4.
Radiator core construction. E. Ludlow. 2,647,731, Aug. 4.
Radio receiving system, Frequency stabilized. R. B. Dome. 2,647,992, Aug. 4.
Railway switch box. E. O. Humphrey. 2,647,710, Aug. 4.
Rake, Power-operated push. J. L. Adams. 2,647,356, Aug. 4.
Raking classifier. C. H. Scott. 2,647,631, Aug. 4.
Ramp, Truck. H. J. Woolslayer and C. D. Iddings. 2,647,606, Aug. 4.
Ratchet-type drill. J. W. Stallings. 2,647,420, Aug. 4.
Razor, Safety. D. A. Dodson. 2,647,308, Aug. 4.
Receiver for pneumatic post systems with horizontal capsule ejection. W. K. Sindzinski. 2,647,706, Aug. 4.
Record turntable drive assembly. E. M. Manning. 2,647,408, Aug. 4.
Recorder, Polar chart. R. R. Watson. 2,647,813, Aug. 4.
Recorder, Twisted loop magnetic. M. Camras. 2,647,750, Aug. 4.
Recovering nickel and/or cobalt ammonium sulfate from solutions containing nickel and/or cobalt values. F. A. Forward. 2,647,820, Aug. 4.
Recovery of co and ni from flotation concentrate. P. J. McGauley. 2,647,827, Aug. 4.
Recovery of ni from ammonia liquors. P. J. McGauley. 2,647,828, Aug. 4.
Reduction of fatty esters. J. Blinka and H. J. Peddicord. 2,647,932, Aug. 4.
Reel: *See*—
Fishing reel.
Reel for electric cords or the like, Weatherproof. D. Benjamin. 2,647,960, Aug. 4.
Reel for leashes. A. P. Hayes. 2,647,703, Aug. 4.
Refrigerator with automatic defrosting, Two-temperature. E. W. Zearfoss, Jr. 2,647,375, Aug. 4.
Refrigerator with defrosting arrangement. F. R. Carlsson. 2,647,376, Aug. 4.
Regulator and self-closing circuit breaker, Combined voltage. P. Cibié. 2,648,035, Aug. 4.
Regulator with tight shutoff action, Fluid pressure. H. W. Ensign. 2,647,345, Aug. 4.
Relaxation test apparatus. W. C. Stewart. 2,647,393, Aug. 4.
Releasable attachment. B. N. Wallis. 2,647,776, Aug. 4.
Releasable fastener. F. L. David. 2,647,294, Aug. 4.
Remodeling milk cans. J. A. Hopwood. 2,647,302, Aug. 4.
Removing pit props, Means for. W. Loebbe. 2,647,736, Aug. 4.
Repeater, Flexible. E. D. Hilburn. 2,647,989, Aug. 4.
Reproducer mounting. M. F. Hoyston. 2,647,754, Aug. 4.
Resinous composition comprising a vinyl chloride polymer and a benzothiazylmercaptoacetic acid ester as a plasticizer. J. Dazzi. 2,647,877, Aug. 4.
Resistance unit and element thereof. A. C. Dyer. 2,647,078, Aug. 4.
Reso-jet motor. E. B. Myers. 2,647,365, Aug. 4.
Ring spinning machine for spinning fibrous material. W. H. Watson and S. L. Cole. 2,647,357, Aug. 4.
Rivet with expanding means, Divided hollow. L. C. Huck. 2,647,432, Aug. 4.
Rocking support. J. D. Lee. 2,647,268, Aug. 4.
Rod spreader, Connecting. A. B. Seppmann. 2,647,723, Aug. 4.
Roll neck seal. J. E. Shields. 2,647,778, Aug. 4.
Roller bit. W. B. Noble. 2,647,804, Aug. 4.
Roller for ironing machines. C. C. Scheele. 2,647,301, Aug. 4.





Roller with detachable covering sleeve, Self-expanding painting. E. E. Thomas and S. T. Coughlan. 2,647,276, Aug. 4.
Rotary cylinder lock. E. Uher. 2,647,391, Aug. 4.
Rotor comprising pivoted hammer provided with armored outer portion and plate-shielded inner portion. W. C. Rogers. 2,647,695, Aug. 4.
Saddle mount. D. Mettetal, Jr. 2,647,760, Aug. 4.
Saturated carbocyclic oxesters and their preparation. T. M. Patrick, Jr. 2,647,918, Aug. 8.
Saw clamp. C. H. Gladu. 2,647,418, Aug. 4.
Sawhorse connector bracket. W. O. Bohm. 2,647,803, Aug. 4.
Scale, Hydrostatic weighing. A. F. Jackson. 2,647,740, Aug. 4.
Scale, Weighing. L. D. Singleton. 2,647,742, Aug. 4.
Screen: *See*—
Fluorescent screen.
Screw pump. J. H. Davis. 2,647,467, Aug. 4.
Seal for beverage coolers. L. E. Rabjohn. 2,647,378, Aug. 4.
Sealed telescopic pipe joint. O. E. Tollefsbol. 2,647,770, Aug. 4.
Sealing assembly. T. J. McCuistion. 2,647,810, Aug. 4.
Sealing device, One-piece. T. O. Kosatka. 2,647,777, Aug. 4.
Seam welded tubes, Manufacture of. R. M. Baker. 2,647,982, Aug. 4.
Seasoning dispenser. S. A. Paoli. 2,647,681, Aug. 4.
Seat: *See*—
Motor vehicle seat.
Seating arrangement for vehicles. B. Barényi. 2,647,791, Aug. 4.
Selector device for card indexes. R. Brinkmann To Broxten. 2,647,519, Aug. 4.
Self-ballasting gaseous discharge lamp. W. J. Dremann and R. E. Dunham. 2,648,029, Aug. 4.
Self-measuring milk dispenser. H. T. Coates. 2,647,719, Aug. 4.
Separating and recovering excess mercury from amalgam miz, Means for. L. L. Shore. 2,647,638, Aug. 4.
Separation of the diastereoisomeric bis[β-(ortho-methoxyphenyl)isopropyl]amines. R. V. Heinzelmann. 2,647,929, Aug. 4.
Separator: *See*—
Centrifugal separator. Hop stem separator.
Servomotor, Hydraulic. E. A. Puerner. 2,647,492, Aug. 4.
Sewing machine, Shoe. F. C. Eastman. 2,647,478, Aug. 4.
Shaft, Flexible. H. Troeger and B. W. Goldberg. 2,647,880, Aug. 4.
Shaft seal. L. P. Grobel. 2,647,771, Aug. 4.
Shaker screen drive mechanism, Adjustable. R. W. Kling. 2,647,630, Aug. 4.
Shears, Removable blade. W. B. Gilson. 2,647,314, Aug. 4.
Sheet stacking mechanism. A. F. Pierce. 2,647,645, Aug. 4.
Sheet stripping means for printing presses. E. F. Dell. 2,647,462, Aug. 4.
Shelf, Refrigerator. O. V. Saunders. 2,647,812, Aug. 4.
Shield structure and filament mount for electron discharge devices. D. R. Kerstetter. 2,648,026, Aug. 4.
Shingle surfacing machine. J. S. Gifford. 2,647,547, Aug. 4.
Shirt and tie, Combination. J. M. Crothers. 2,647,262, Aug. 4.
Shirt having detachable insignia panel, Sport. H. Rassner. 2,647,261, Aug. 4.
Shock absorber for railway car trucks. A. E. Dentler. 2,647,744, Aug. 4.
Shock mounting. R. F. Norris and R. D. Avery. 2,647,717, Aug. 4.
Shovelling device, Rapid. F. Chimani. 2,647,332, Aug. 4.
Shower bath utility. A. Z. Mosa. 2,647,797, Aug. 4.
Shuttle-guiding means, Magnetic. B. B. Purdy. 2,647,542, Aug. 4.
Side outlet for above-ground irrigation pipes. H. E. Stearns. 2,647,539, Aug. 4.
Sign. J. L. Andersson. 2,647,335, Aug. 4.
Signal: *See*—
Bobbin signal.
Signaling device for looms and the like. G. F. League. 2,647,486, Aug. 4.
Signaling system, Coded impulse responsive secret. E. E. Turner, Jr. 2,648,060, Aug. 4.
Silicon lacquers, Production of. S. Nitzsche. 2,647,880, Aug. 4.
Single carrier transmission of sound and video signals. J. E. Robinson. 2,647,944, Aug. 4.
Sintering machine. M. L. Cover. 2,647,615, Aug. 4.
Skid preventer for automobiles. A. Paarria. 2,647,779, Aug. 4.
Slip sheeter attachment for duplicators. B. Ferrar. 2,647,463, Aug. 4.
Smoking pipe. E. F. Schneider. 2,647,522, Aug. 4.
Socket, Electric lamp. G. D. Brayman and E. K. Lotthammer. 2,648,049, Aug. 4.
Sound recording and reproducing apparatus. A. Lissiansky. 2,647,751, Aug. 4.
Spectrometer, Mass. C. F. Robinson. 2,648,009, Aug. 4.
Spectrometer, Mass. R. L. Sink. 2,648,008, Aug. 4.
Speedometer, Magnetically-acting. C. H. H. Rodanet. 2,648,019, Aug. 4.
Spiro[cyclohexane-1,9′-fluorene]amines. D. A. Stauffer and O. E. Fancher. 2,647,896, Aug. 4.
Spoon. J. Yoffes. 2,647,310, Aug. 4.
Spray rig supporting frame for farm tractors. W. A. Mueller and A. R. and R. B. West. 2,647,794, Aug. 4.
Spraying device, Electrical. F. Ziherl. 2,648,017, Aug. 4.
Spraying device with swivel nozzle. F. Ziherl. 2,647,796, Aug. 4.
Spraying machine, Plant. J. B. Kucera. 2,647,795, Aug. 4.
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Stamp, Hand. R. R. Robinson. 2,647,461, Aug. 4.
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Stop motion for looms. W. J. Budzyna and M. R. Flamand. 2,647,545, Aug. 4.
Storm window and screen frame and assembly. A. B. Landry and W. H. Martin. 2,647,571, Aug. 4.
Straight spring controlled escapement regulating system. P. H. Fidelman. 2,647,362, Aug. 4.
Strand tension device. C. G. Gilmore. 2,647,705, Aug. 4.
Strap, Wristwatch. B. R. Nyhagen. 2,647,668, Aug. 4.
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Substituted benzoic acid esters and their preparation. T. P. Carney. 2,647,903, Aug. 4.
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Surface test indicator. G. C. Welch. 2,647,324, Aug. 4.
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Switching apparatus. A. T. Merkel. 2,647,964, Aug. 4.
Switching operating device, Electrical. H. T. Tornberg. 2,647,966, Aug. 4.
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System and means for determination of distance and direction. H. F. Rost and P. H. E. Claesson. 2,648,062. Aug. 4.
System for measuring radioactivity. A. Greenfield and J. F. Clayton. 2,648,015, Aug. 4.
Table and seat assembly, Foldable. C. F. Hoffar. 2,647,562, Aug. 4.
Tabulating mechanism for accounting machines, Skip. W. A. Anderson. 2,647,691, Aug. 4.
Tachistoscopic device. S. H. Bloch and E. Gylling. 2,647,329, Aug. 4.
Tandem chuck wind-up. F. S. Pollock, Jr. 2,647,697. Aug. 4.
Tank fill connection. F. W. Exton. 2,647,768, Aug. 4.
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Test pad. R. W. Newbill, Jr. 2,647,399, Aug. 4.
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Thermal responsive automatic switch. K. Mizutani. 2,647,971, Aug. 4.
Thermoelectric space heater. F. J. Bordt and A. J. Shine. 2,647,505, Aug. 4.
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Ticket issuing and printing machine. E. S. Spargo. 2,647,457, Aug. 4.
Tie holder. F. F. Gurzny. 2,647,263, Aug. 4.
Tight coat hot dip galvanizing and hot dip galvanized product. N. E. Cook and S. L. Norteman. 2,647,305, Aug. 4.
Time control switch. E. C. Williams. 2,647,963, Aug. 4.
Time-service control apparatus for auto service stations and the like. R. F. Ostrander. 2,647,328, Aug. 4.
Time system with electronic self-regulation, Electric. J. L. Wagner, W. Webb, and R. N. Elchorn. 2,647,360, Aug. 4.
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Tire sprender. E. H. Koester. 2,647,722, Aug. 4.
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Hand tool.
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Towel lock rack. S. Tritt. 2,647,641, Aug. 4.
Toy car-truck rail aligner. N. Saunders. 2,647,468, Aug. 4.
Toy, Steered trundle. A. L. J. Zileri and M. Freudenstein. 2,647,343, Aug. 4.
Track for vehicle toys, Molded. R. N. Carver. 2,647,693, Aug. 4.
Traction device. H. R. Richards. 2,647,551, Aug. 4.
Tractor attachment for cable or hydraulic tipple loaders. M. L. Vincent. 2,647,651, Aug. 4.
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Trailer hitch. F. E. Kentz. 2,647,761, Aug. 4.
Transceiver system. O. H. Schmitt. 2,648,063, Aug. 4.
Transformer assembly, Intermediate frequency. R. A. Lang and R. M. Savasky. 2,648,031, Aug. 4.
Transistor circuit. C. O. Mallinckrodt. 2,647,957, Aug. 4.
Transmission. R. Lapsley. 2,647,413, Aug. 4.
Tray with furniture arm engaging bracket, Chair. A. I. Hudziak and P. H. Kyker. 2,647,716, Aug. 4.
Treatment of textile fibers for removing foreign matter therefrom. M. T. Hoffman. 2,647,286, Aug. 4.
Trigger circuit. A. H. Dickinson. 2,647,995, Aug. 4.
Truck, Collapsible. E. Lützelschwab. 2,647,594, Aug. 4.
Tube closure. R. R. Robinson. 2,647,655, Aug. 4.
Tube display system, Cathode-ray. E. Parker, P. R. Wallis, and A. Woroncow. 2,648,061, Aug. 4.
Tube shield for spray guns. E. Mosher. 2,647,793, Aug. 4.
Tubing drain and jar, Combined. J. S. Page. 2,647,540, Aug. 4.
Tuning for mechanical resonators, Adjustable. L. L. Burns, Jr. 2,647,949, Aug. 4.
Tuning system. R. J. Witkowski. 2,648,007, Aug. 4.
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Ultrahigh-frequency electron discharge device. N. E. Pryslak and K. M. McLaughlin. 2,647,298, Aug. 4.
Undergarment, Female. S. Kaufman. 2,647,260, Aug. 4.
Unloader valve. J. S. Jaquith. 2,647,530, Aug. 4.
Unloading header fitting and strainer. A. W. Rafferty. 2,647,036, Aug. 4.
Upsetting forging machine. W. W. Criley. 2,647,421, Aug. 4.
V belts, Manufacture of. C. W. Leguillon. 2,647,280, Aug. 4.
Vacuum distillation, Process and apparatus for. W. B. Whitney. 2,647,862, Aug. 4.
Vacuum seal. S. P. Newberry, Jr. 2,647,774, Aug. 4.
Valve: *See*—
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Directional valve.
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Manually and fluid-pressure operated valve.
Mixing valve.
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Valve applicable to fuel gas mains, Pressure relief. B. A. Freeman. 2,647,534, Aug. 4.
Valve assembly. G. R. Rich. 2,647,501, Aug. 4.
Valve cylinder head for internal-combustion engines, Multiple. G. Pielstick. 2,647,499, Aug. 4.
Valve device for well tools, Pressure compensated. B. Kriegel. 2,647,583, Aug. 4.
Valve gear for Diesel engines. H. Lang. 2,647,500, Aug. 4.
Valve operating mechanism. J. A. Hopwood. 2,647,532, Aug. 4.
Vapor generator. W. T. Moore. 2,647,495, Aug. 4.
Vehicle body convertible into an article-carrying body. E. F. Kaiser and D. B. Hammond. 2,647,788, Aug. 4.
Vehicle drive mechanism. B. W. Keese. 2,647,597, Aug 4.
Vehicle travel control means. W. B. Dean and D. L. Buchanan. 2,647,415, Aug. 4.
Venetian blind. P. H. Biscoe and W. T. Slater. 2,647,572, Aug. 4.
Venetian blind tape retaining pin. R. W. Meyer. 2,647,573, Aug. 4.
Vent protecting and draft equalizing device. J. W. Martin. 2,647,477, Aug. 4.
Verifier scanner. L. J. Chu. 2,648,003, Aug. 4.
Violin mute and resin holder. B. R. Nyhagen. 2,647,428, Aug. 4.
Viscose recovery. R. R. Warburton. 2,647,891, Aug. 4.
Voltage and current bias of transistors. H. L. Barney. 2,647,958, Aug. 4.
Voltage regulating generator. L. G. Opel and W. R. Harding. 2,648,044, Aug. 4.
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Wall supported hanger. J. M. Margulis. 2,647,711, Aug. 4.
Washing articles by supersonic vibration in a flowing liquid, Method and apparatus for. S. Bagno. 2,647,846, Aug. 4.
Washing machines. F. P. Keiper. 2,647,386, Aug. 4.
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Waste stripping mechanism for carton blank forming apparatus. G. Kane. 2,647,446, Aug. 4.
Water conditioner. A. W. Frazier. 2,647,871, Aug. 4.
Water displacing rust preventive compositions and coating a base therewith. W. A. Zisman and H. R. Baker. 2,647,839, Aug. 4.
Water-soluble heteropolymers from styrene, maleic anhydride and a cross-linking reactant. R. B. Seymour. 2,647,886, Aug. 4.
Wattmeter for electric high-frequency currents. J. Vackář. 2,648,048, Aug. 4.
Wattmeter, Wave guide calorimeter. L. M. Hollingsworth. 2,648,047, Aug. 4.
Wear indicating device for drill bits. D. L. Del'Homme. 2,647,729, Aug. 4.
Well logging method and apparatus. J. J. Jakosky. 2,648,050, Aug. 4.
Well packer and bridge plug for well bores. J. R. Baker and M. B. Conrad. 2,647,584, Aug. 4.
Wheel and mounting assembly. C. O. Christensen. 2,647,277, Aug. 4.
Wheel and tire mounting appliance. M. J. Ribarich, Jr. 2,647,648, Aug. 4.
Wheel attachment for bicycles, Stabilizing. P. V. Anderson. 2,647,764, Aug. 4.
Wide hollow steel propeller blade and making the same. F. A. Gruetjen. 2,647,586, Aug. 4.
Winding machine, Stator. A. Brunand. 2,647,696, Aug. 4.
Winding machine traverse mechanism. E. L. Woolley. 2,647,698, Aug. 4.
Window construction. E. C. Richardson. 2,647,288, Aug. 4.
Window weatherstripping. G. C. Harbert. 2,647,289, Aug. 4.
Wire reel mounting. J. G. Wright, C. D. Toney, C. A. Watkins, E. Sudan, and W. A. Maxwell. 2,647,702, Aug. 4.
Wound package and after-treating the same, Making a. O. A. Battista. 2,647,816, Aug. 4.
Wrapper for articles of merchandise. E. A. Wilsher and E. C. Roh. 2,647,334, Aug. 4.
Wrench for nuts and like polygonal objects, Self-adjusting. S. O. Mortensen. 2,647,425, Aug. 4.
Yarn advancing reel having liquid applying and liquid stripping means. W. H. Furness. 2,647,389, Aug. 4.

# CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number

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## CLASSIFICATION OF DESIGNS

D 7— 7: Des. 170,107
D14— 3: Des. 170,137
30: Des. 170,114
Des. 170,116
D15— 1: Des. 170,122
8: Des. 170,121

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D44— 1: Des. 170,130
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U. S. GOVERNMENT PRINTING OFFICE: 1953

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

IN RE COPPINO ET AL.

*No. 5939. Decided April 15, 1953*

[203 F.2d 731; 97 USPQ 323]

1. PATENTABILITY — NON-ANALOGOUS ART — CLAIM MUST BE LIMITED TO PARTICULAR ART.

Where the applicant contends that a reference represents non-analogous art, *Held* that a claim which is not limited in its terms to a particular art does not present an issue of art.

2. SAME — PARTICULAR SUBJECT MATTER — CARBONATOR AND DISPENSER APPARATUS.

Certain claims in a carbonator and dispenser apparatus *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 587,223.

AFFIRMED.

*K. Wilson Corder* for appellants.

*E. L. Reynolds* (*H. S. Miller* of counsel) for the Commissioner of Patents.

COLE, *J.*:

This is an appeal from a decision of the Board of Appeals affirming the Primary Examiner's rejection of claims 1 to 6 and 9 to 20 (all inclusive) relative to alleged inventive improvements claimed in a carbonator and dispenser apparatus designed for use in the soft drink industry.

It is known that appreciable problems are encountered in attempting to combine carbon dioxide and water to form carbonated water in that these compounds tend to resist being united in the first instance and seek to separate at the earliest opportunity. Maximum efficiency and optimum results as to the finished drink have, in large part, been prevented by this and other related problems.

Applicants state that it has been found that the production of the carbonated water solution is most satisfactory under certain temperature conditions (water has increasing ability to absorb gas as temperature decreases), and under circumstances where all possible water surface is exposed to the gas. The alleged invention is, therefore, mainly concerned with setting up the aforesaid conditions so that the potability of the finished product may be enhanced and the dispensing operation carried out in a more efficient and economical manner than has heretofore been possible.

Representative claims 1 and 20 of the application on appeal read as follows:

1. In a device of the character described, a pressure tank, a distributor head therein, a plurality of pliable carbonator curtains attached to said head, a source of gas supply and a source of water supply communicating with said pressure tank.

20. In a device of the character described, a pressure tank, a distributing header mounted therein, a flexible yielding carbonator curtain secured to said header, a water cooling element adjacent the tank and communicating with said header and curtain, means regulating the flow of water into said cooling element, a syrup tank adjacent said cooling device, the contents of both the pressure tank and the syrup tank receiving refrigeration from the cooling element, a dispensing nozzle partly positioned in said syrup tank and likewise receiving refrigeration from said cooling element, and a source of $CO_2$ gas supply to the carbonator curtain.

The Board of Appeals based its rejection of all claims in the application on appeal on the following references: Gardner, 654,725, July 31, 1900; Delen, 2,195,449, Apr. 2, 1940; Burk et al., 2,376,341, May 22, 1945; Tull, 2,434,374, Jan. 13, 1948.

The application discloses, in general, a carbonator and dispenser wherein water is cooled and combined with carbon dioxide to form carbonated water properly refrigerated for beverage purposes. More specifically, the invention is concerned with what applicants have characterized as a "curtain-type" carbonator, alleged to be an entirely new type of carbonator. This apparatus consists of a cylindrical container, the axis of which is vertically disposed. A series of circular troughs are located one within the other at the upper end of the container and are in stepped relation to one another; water flowing into the outermost trough will, when the trough is filled, spill into the next lower trough, such action continuing until all troughs become filled. Properly located holes in the troughs are provided so that water may be supplied to the carbonating curtains. The curtains are suspended from the lower portion of each of the troughs, and in the language of some of the claims are formed of a glass cloth material, made of a continuous filament of glass, said materials being flexible and yielding and having a wicklike action which facilitates in the handling of large quantities of water in a manner most conducive to high carbonation. This feature of the apparatus, according to the applicants, is the very heart of their invention in that it teaches for the first time the application and utilization of pliable curtains which produce

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maximum results both as to speed and volume of carbonation. In other words (as stated by the Primary Examiner), "the purpose of these curtains is to secure more intimate contact between the water and the gas in order to facilitate carbonation."

This provision for flexible, pliable curtain members of specified material was the outgrowth of extensive experimentation on the part of the present applicants. They state that the most efficient carbonating is obtained with the thinnest possible film of water and that by reason of the wicklike action of the specified curtain material, the flowing liquid is spread thinly and evenly there-across; the carbon dioxide, previously introduced to a predetermined pressure in the carbonator, is thereby more readily absorbed. In further explanation, we quote from certain of applicants' remarks as disclosed in the record:

> • • • applicants disclose and teach a structure in which water forms a definite film over the entire surface of unique carbonating curtains, and while the water is flowing over said curtains, this thin film is subjected to $CO_2$ gas, in such a manner as to absorb large quantities thereof, both a high rate of carbonation and what is more important, a high degree thereof being thereby afforded. • • •
>
> • • • • • • • • •
>
> • • • It may also be noted that additional advantages accrue in the use of curtains [flexible, yielding, and having a wicklike action] in that even if the carbonator is tilted substantially, these members always tend to maintain a vertical plane, the carbonation not being appreciably slowed by any reasonable departure from a vertical plane on the part of the carbonator, itself. This is particularly important in the case of ships and airplanes, where considerable tilting may be expected to occur, and where bad results then accrue in the case of conventional carbonators heretofore known to the art.

It appears to us, therefore, that applicants are proposing what they deem to be unique carbonating curtains, the purpose of which is to unite $CO_2$ gas and water in such manner whereby maximum results both as to speed and volume of carbonation is assured, and that the uniqueness of said curtains lies in the fact that they are flexible and yielding and are made of material having a wicklike action whereby the water is spread in a thin film across the large absorption surface of the carbonating curtains.

The principal reference relied upon by the Board in rejecting the claims on appeal is the patent to the inventor Delen. Claims 1 to 6 and 11 to 19 were said to be either fully met by Delen or unpatentable thereover. Applicants have made a motion to dismiss the appeal as to claim 13 which motion will be considered in the course of the opinion.

The patent to Delen relates to a water cooling and carbonating device. That inventor, in part, states in his specification:

> An object of this invention is a simple and inexpensive apparatus which will quickly and efficiently cool water and charge it with carbonic acid gas and take advantage of the fact that the ability of water to absorb gases increases as its temperature decreases.

Delen shows a pressure tank provided with a distributor head therein and a wire mesh screen attached to said head. A source of carbon dioxide and a source of water is also provided which communicates with the pressure tank. The wire mesh screen is disclosed as the part in which the $CO_2$ gas is contacted with the water and hence corresponds in matter of form to applicants' carbonating curtains.

The applicants argue that a study of the patent to Delen clearly establishes that the wire mesh members of that inventor's apparatus are rigid and substantially unyielding; that the wire mesh is formed of a heavy type wire thereby making it apparent that in the normal operation of the apparatus, the water would simply run down the sides of the cylinder, tending to follow the vertical lines thereof and henceforth would afford but little exposure to the $CO_2$ gas; that, as a consequence, it is not proper to hold that Delen anticipates the claims on appeal as there is not the remotest suggestion in that inventor's teaching of a curtain-type carbonator.

It is entirely clear to us that both the screen of the patentee and the curtain of the applicants are used as film forming means to present a large absorption surface. The essence of the controversy, therefore, would seem to amount to this: Is Delen's wire mesh screen a fair equivalent of applicants' carbonating curtains? In this connection, the Primary Examiner said:

> Applicants argue that the wire mesh members of Delen are not "flexible," "pliable," "limber" or "pliant," these terms being used in various of the claims to describe their own curtains. • • • • • • • • •
>
> It is submitted however, that "wire-mesh members" • • • are inherently pliant. Such material is used for window screen and the size of the mesh varies from say 100 mesh to the square inch (⅒ inch spacing) up to about 4 per square inch (½ inch spacing) but in all forms it is relatively flexible and is distributed to the trade in rolls. Anything larger than this is not ordinarily called wire mesh. The more rigid forms are usually termed gratings. The above is a matter of common knowledge.

In furtherance of the Primary Examiner's view, the Board of Appeals, in its concurring opinion, stated:

> We are of the opinion that the wire mesh curtains disclosed in the Delen patent are "pliable" in the broad sense of the quoted term as used in claim 1 [of the present application] and also are "yielding," "limber," "flexible," "flexible pliant" or "flexible yielding" as recited in others of the claims and furthermore that it would not involve invention to substitute a curtain having the characteristics indicated by the quoted phrases for the wire mesh of the Delen device. Our reason for arriving at this conclusion is that the record before us does not establish any new or surprising result emanating from the substitution of a curtain of the character claimed for the wire mesh curtain disclosed in the Delen patent. The function of the curtain as disclosed in the application is the same as the function of the curtain disclosed in the Delen patent and that is to attain such contact between the water and the carbon dioxide, as the water flows down the curtain in a thin stream, as to facilitate absorption of the carbon dioxide in the water. Appellants have not shown that any new or surprising result follows from the use of the limber, pliable or flexible materials • • •

The sum and substance of the above quoted language of the officials of the Patent Office appear to us to be manifestly correct. The fact that a wire mesh screen is, in fact, flexible seems to be borne out by the not uncommon sight of wire mesh screening placed in a roll preparatory to actual use. This being so, we fail to see where applicants' carbonator curtains patentably differentiate from the screen of the Delen device.

We are not unmindful of the persistent urging on the part of the applicants herein to the effect that the drawings of the Delen patent make it perfectly apparent that the wire mesh members within that inventor's device are formed of substantially heavy wire on the order of ¾ of an inch per square and that consequently no wicklike action is possible. This conclusion, applicants believe, is justified by visually comparing the size of other elements shown in the drawings of the Delen apparatus with the size of the wire meshing also shown therein. Further, applicants have argued that the Delen drawing shows a double blast of $CO_2$ gas impinging upon the wire mesh screen without, however, said structure departing in any way from its vertical plane. Inasmuch as the blast is at relatively high velocity, as it of necessity must be, applicants reason that the wire mesh is rigid and not yielding. We have carefully considered these contentions but due principally to the speculative and uncertain quality thereof (as no scale is shown to accompany the drawing) we are of the opinion that the proof offered is not sufficiently convincing and we are unwilling to say that the tribunals below committed error on the basis of such inconclusive proof.

As previously noted, the applicants have provided that the curtains be formed of glass cloth (claims 2 and 3) but also relate that said curtains may be formed of a variety of materials, such as linen or cotton cloth or other woven material. No limitation is believed to be intended in connection with the material used, so long as such material possesses the wicking action which spreads a liquid thinly and evenly across the curtains.

It is our opinion that no exercise of the inventive faculty is involved in substituting a glass cloth or a cloth (claims 4 and 16) wicking agent for the wire mesh of the Delen patent. Both the wire mesh of Delen's screen and the specified material of the applicants' curtains are used for their wicking or spreading effect on the water. Furthermore, the patent to Burk of record herein relates to an apparatus for contacting liquid with vapor or gas and specifically refers to "a wicking agent or a woven mesh, such as woven wire fabric, glass cloth, etc." as a film forming means. The applicants, in their brief, argue that the Burk reference constitutes non-analogous art in that it is apparently used in the oil refining industry and further that the wicking agent is not used or contemplated to be used for the purpose of establishing thin films of liquid which are to be subjected to, and impregnated with, $CO_2$ gas. Applicants claim no invention in glass cloth, per se, but rather the use of such material, or a similar flexible material, in a carbonator. We feel that the Burk reference was properly cited for what it clearly discloses, i. e., that glass cloth is a wicking agent, and as such, may be utilized to film a liquid. We also feel that the field of endeavor pursued by Burk and that pursued by the present applicants are sufficiently related to negative an inventive concept on the part of the applicants. In any event, we feel that the Delen reference is sufficient, in itself, to deny patentability to the claims in question.

Claims 1 to 5 and 11 to 18 (excluding claim 13) were therefore, in our opinion, properly rejected by the tribunals of the Patent Office.

The remaining claims of the application—6, 9, 10, 18, 19, and 20—were, with the exception of claim 10, also rejected by the tribunals below with principal reliance being based on the Delen patent.

In their brief, applicants state that "claims 6, 9, and 18 include float means for controlling the amount of water supplied to maintain a constant level of carbonated water in the tank." While this feature is clearly disclosed in the patent to Tull relating to a carbonated beverage dispensing apparatus (and this is not seriously disputed by applicants), applicants contend that such float control, when combined with the other elements of their apparatus, including the vital carbonating curtains, is a new combination giving rise to a superior result. The Board was of the opinion that the consolidation claimed was of old elements without, however, any new results flowing therefrom or any new co-action occurring between the elements, and with this conclusion, we are in accord. We do not, therefore, feel that it is necessary to discuss the Delen reference in this connection.

Claim 10 reads as follows:

> 10. In a device of the character described, a pressure tank, a header operatively mounted therein yielding, carbonator curtains attached to said header; troughs formed in the top of said header, and apertures in said troughs sufficiently above the bottoms thereof to prevent foreign matter in the water from being carried onto the curtains, said troughs further serving to act as distributors to insure that the curtains will be evenly wetted.

The Board of Appeals applied the Gardner reference to this claim, as did the Primary Examiner, stating that the construction shown in Figure 1 of Gardner discloses a chamber corresponding to, and being the equivalent of, the pressure tank in the application; that Gardner shows troughs formed at the top of the header and apertures above the bottom of the header for the purpose of preventing foreign matter in the water from reaching the curtains; and that the curtains in the Gardner reference are considered to be flexible and yielding and are attached to the header. The Board concluded, saying:

> • • • Claim 10 does not distinguish from the disclosure of the Gardiner [Gardner] patent by merely terming the curtains "carbonator curtains" or the chamber a "pressure tank." • • •

The patent to Gardner was issued in 1900 and related to improvements in an air-cooling apparatus. The cooling liquid in that invention was admitted to the troughs through pipes, subsequently being distributed in fine streams onto a canvas sheet or "other suitable material" at which time contact was made with air passing through the chamber.

[1] The applicants contend that Gardner represents non-analogous art. While it is perfectly apparent that the reference device is not described as for use as a carbonator, the Primary Examiner was of the opinion that claim 10 of the application stated no art in that the only mention of a car-

bonator therein was the reference to carbonator curtains. This view was also argued by the Solicitor in his brief. While we are inclined to agree that claim 10 does not present any issue of art, we feel that, in any event, the reference patent was properly applied in the rejection of the claim in question. The fact that the Gardner patent is quite old does not subtract from its utility for that which is clearly disclosed therein, nor does its application, in any way, call for a deviation from the accepted test of what constitutes an inventive concept on the part of the applicant seeking a patent. In the words of the Primary Examiner, "claim 10 appears to call for little more than curtains attached to header troughs with the trough delivering the liquid at an elevated point." The structural features set forth in the claim are therefore, in our opinion, met by the reference patent in the patentable sense, and we must conclude that the reasons advanced by the tribunals below in rejecting claim 10 are not such as to warrant a different holding here.

Finally, claims 19 and 20 (claim 20 has previously been set forth) add a syrup storage tank attached onto the sidewall of the pressure tank; the syrup is cooled by contact with the refrigerated pressure tank, both the carbonator and syrup tank being well insulated on all sides. The carbonated water is discharged through a nozzle.

The Primary Examiner rejected these claims on the ground that they were aggregative and on the further ground that no invention was involved in view of the reference patent to Delen and the patent (2,121,841) to the inventor Tweed. The Board of Appeals affirmed on the basis of the patent to Tull, stating that the additional features disclosed in the claims did not import any invention into said claims. The Board did not rely on the Tweed reference feeling that it was, at most, merely cumulative to Tull.

We cannot adhere to the Primary Examiner's rejection of these claims as being aggregative. The claims are actually directed to an unpatentable combination and not an aggregation. See *In re Worrest*, 40 CCPA (Patents) —, 201 F.2d 930, 96 USPQ 381. We therefore deem it unnecessary to do more than cite with approval the following from the decision of the Board of Appeals:

> • • • This additional feature does not import any invention into these claims since the syrup tank • • • disclosed in the Tull patent is included in the insulated tank in the same relation to the cooling element as in the device defined in these claims.
>
> From the above, it will be apparent that it is our opinion that the claims defined no more than the consolidation of desirable features of the cited prior art in such a manner that there is no new coaction between the elements and no new and unexpected results flow from the device except that which could be expected from a mere consolidation of old elements. • • •

[2] The motion to dismiss claim 13 is hereby granted, and for the reasons hereinbefore stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

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GARRETT, *Chief Judge* (concurring):

I do not think there is any teaching in the Delen patent that the wire mesh (the wire being made of metal) has a wicking effect. "Wicking effect," as I understand it, is produced by capillary attraction, and I know of no metal which has the characteristic of capillary attraction.

I do not agree with the construction apparently placed upon the Burk et al. patent by the tribunals of the Patent Office (and seemingly approved by the majority of the court) to the effect that that patent attributes a wicking action to glass cloth, such as that named in claims 2 and 3. No reference to glass cloth appears in the claims of that patent, but the specification states:

> To feed liquid such [so] that it may film down on the surfaces of the plates or sheets 5, various feeding apparatus may be applied, but a preferable form involves pieces or strips 12 of a wicking agent or a woven mesh, such as woven wire fabric, glass cloth, etc., these being superposed above the top edges of the plates 5 • • •.

It seems to me that the most reasonable construction of the foregoing is that strips of a wicking agent may be used, or a woven mesh, such as woven wire fabric, may be used, or glass cloth may be used, and that it was not meant to teach that glass cloth is a wicking agent. I do not recall having ever heard that glass, in any form, has absorptive or capillary qualities, but, in any event, the teaching of Burk et al. seems clearly to anticipate the glass cloth feature of claims 1 and 2. If non-absorptive in Burk et al. such cloth would be non-absorptive in those claims and vice versa.

As I view the references, the Delen patent teaches the flow of water in a thin film over the surface of wire, and Burk et al. teach that glass-cloth may be used instead of wire to aid in the absorption of the carbonating gas, and the claims of those patents conform to the teachings expressly set forth in the specifications. On the other hand, appellants have teachings in their specification which might justify claims based upon the use of materials having capillary, or absorptive, qualities for use in properly distributing the water for impregnation with the gas, but I do not find any appealed claim which meets the statutory requirement as to clarity and distinctiveness relative to a wicking feature. It is obvious, I think, that there is not a word or phrase in any one of the appealed claims which would so much as suggest the use of wick action in the carbonating art. As stated by the majority, appellants relied *in the claims* upon flexibility for novelty and found themselves faced with pertinent prior art.

I therefore concur in the conclusion.

JOHNSON, *J.*, concurs in the above.

# PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,883,850, O. Behimer, Process for making gasoline, D. C., N. D. Ill. (Chicago), Doc. 3783, *The Texas Co.* v. *The Globe Oil & Refining Co.* Master's Report filed finding issues of infringement Aug. 15, 1951; Master's Report confirmed; complaint dismissed June 30, 1953.

2,057,587, B. C. Place, Gripping fastener; 2,057,588, same, Securing trim material, D. C., E. D. Mich. (Detroit), Doc. 10876, *Gaginer Fiber Products Co.* v. *Fourslides, Inc.* Judgment holding patents invalid; complaint dismissed (notice June 30, 1953).

2,057,588. (See 2,057,587.)

2,149,048, H. Freedman, Artificial dental structures, filed July 6, 1953, D. C., S. D. N. Y., Doc. 86/194, *H. Freedman* v. *Cornell University Medical College et al.*

2,226,449, F. C. Stephens, Method of repairing textile fabrics, filed July 1, 1953, D. C., S. D. Miss. (Jackson), Doc. 1991, *National Multiweaving Co., Inc., et al.* v. *Grace O'Keefe.* Doc. 1992, *National Multiweaving Co., Inc., et al.* v. *B. Lambright.*

2,279,125, L. Mintzes, Garment, D. C., S. D. N. Y., Doc. 51/302, *Ramsay Sportswear Co., Inc.* v. *Robert L. Schwartz & Bro., Inc.* Order dismissing cause for lack of prosecution (notice July 2, 1953).

2,294,172, C. Getz, Process of making aerated food products, D. C., N. D. Ill. (Chicago), Doc. 47c961, *Aeration Processes, Inc.* v. *Andes Candies, Inc.* Order dismissing complaint May 5, 1953. Doc. 47c962, *Aeration Processes, Inc.* v. *Aerated Container Corp. et al.* Decree as above.

2,327,662, L. Novy, Garment, C. C. A., 8th Cir. (St. Louis), Doc. 14608, *Weil-Kalter Mfg. Co.* v. *Sel-Mor Garment Co. et al.* Judgment of District Court affirmed June 29, 1953.

2,435,682, C. A. Getz, Aeration of butter-fat containing liquids, D. C., N. D. Ill. (Chicago), Doc. 48c178, *Aeration Processes, Inc., et al.* v. *Walgreen Co.* Order dismissing cause May 5, 1953.

2,436,054, L. Plukas, Garment with detachable shoulder pads, D. C., S. D. N. Y., Doc. 49/47, *Certified Shoulder Pad Co., Inc.* v. *Keystone Shoulder Pad Co., Inc.* Stipulation and order of discontinuance Mar. 12, 1953.

2,450,866, Morehouse & Mayfield, Poultry treatment composition, filed Apr. 13, 1953, D. C., W. D. Mo. (Kansas City), Doc. 8186, *Dr. Salsbury's Laboratories* v. *I. D. Russell Co. Laboratories.* (To correct error in 671 O. G., 906, formerly published as 2,450,866, Escoffery & Mervn, Semi-conductor).

2,455,340, B. Newman, Crib and bed guard, D. C., S. D. N. Y., Doc. 49/213, *R. Barbara Blanke Creations* v. *Nursery Plastics, Inc., et al.* Consent judgment for plaintiff against Paragon Furniture Co., Inc., injunction June 21, 1949, order dismissing cause for lack of prosecution July 2, 1953.

2,461,464, R. Aronstein, Filter for fluorescent screens, D. C., S. D. N. Y., Doc. 51/223, *Transmirra Products Corp. et al.* v. *E. L. Cournand, Inc.* Stipulation and order of discontinuance (notice July 7, 1953).

2,495,579, Ferris & Klancnik, Antenna, D. C., S. D. N. Y., Doc. 85/264, *Hi-Lo TV Antenna Corp.* v. *Delson Mfg. Corp. et al.* Consent judgment holding patent valid, defendants enjoined July 3, 1953.

2,498,374, F. E. Martin, Method and article for treatment of mammary glands, D. C., S. D. N. Y., Doc. 59/397, *Martin Laboratories* v. *American Home Products Corp. et al.* Consent judgment dismissing complaint June 9, 1952.

2,564,818, H. L. Schwartz, Stem spotting gun, D. C., S. D. Calif. (Los Angeles), Doc. 13623–HW, *J. O. Stinson et al.* v. *W. M. Cissell Mfg. Co., Inc.* Judgment holding patent valid, complaint dismissed (notice June 30, 1953).

2,580,894, R. E. Ten Eyck, Two-deck trailer, filed July 1, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1485, *Lighthouse Trailer Co.* v. *Deer Park Trailer Sales, Inc.*

2,624,888, P. P. Bebry, Love seat with resilient front panel; Re. 23,616, same, Love seat bed, filed July 2, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13644, *Bebry Bedding Corp.* v. *Aristocrat Rest Products Corp.* Same, D. C., S. D. N. Y., Doc. 86/175, *Bebry Bedding Corp.* v. *Surrey Sleep Products, Inc.*

2,630,573, H. J. Rand, Heat retaining garment; 2,630,620, same, Coated fabric, D. C., S. D. N. Y., Doc. 84/267, *Deering Milliken & Co., Inc.* v. *Scher & Feldman, Inc.* Dismissed June 30, 1953.

2,630,620. (See 2,630,573.)

2,632,107, J. Hilvjak, Television antenna, D. C., N. D. Ill. (Chicago), Doc. 53c987, *True-Tronics, Inc.* v. *Certified Distributing Co. et al.* Consent judgment holding claims 1 to 8 inclusive valid and infringed; injunction granted (notice July 3, 1953).

Re. 23,616. (See 2,624,888.)

Des. 146,300, A. D. Chifari, Combined wrist watch and holder therefor, D. C., S. D. N. Y., Doc. 50/621, *A. D. Chifari* v. *H. A. Drutsch et al.* Order dismissing cause for lack of prosecution June 9, 1953.

Des. 158,145, G. J. Staab, Ruler, filed July 2, 1953, D. C. Conn. (New Haven), Doc. 4495, *Sterling Plastics Co.* v. *The C-Thru Ruler Co.*

Des. 165,314, H. Weissman, Spectacle front, D. C., S. D. N. Y., Doc. 73/343, *Paramount Optical Mfg. Corp.* v. *Royal Optical Ornament Co.* Order dismissing cause for lack of prosecution June 9, 1953.

Des. 168,320, M. L. Shanahan, Combined package and display case for lipsticks, filed May 15, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15511–WB, *Sales Counselors, Inc.* v. *Kalagraph Co., Inc.*

# NOTICES

## Trade-Mark Registrations

*Premature Filing of Affidavits Under Section 8*

The Patent Office has received a number of affidavits under section 8 of the Trade-Mark Act of 1946 before the time specified in the statute. Such affidavits can be of no effect unless filed during the period specified in the statute, and prematurely filed affidavits will be returned.

Section 8 of the Trade-Mark Act of 1946 provides that registrations issued under the provisions of the act of 1946, and registrations republished under section 12(c) of said act, will be canceled at the end of six years following the date of registration, or the date of republication, unless, within one year next preceding the expiration of such six years, the registrant files in the Patent Office an affidavit showing that the mark is still in use or showing that its nonuse is due to special circumstances which excuse such nonuse and is not due to any intention to abandon the mark. Attention is further called to Trade-Mark Rules 32.1 and 32.5 relating to such affidavits. Since

the registrant must show, during the sixth year, that the trade-mark is still in use, the affidavit must not be executed before the sixth year begins.

The Patent Office has also received affidavits under section 8 in cases where they are not required. The affidavit is not required in the case of 1881 and 1905 act registrations which have not been republished under section 12(c), or 1920 act registrations, even through such registrations have been renewed under the provisions of section 9. Such affidavits may be returned.

This notice supersedes the notice of January 17, 1952, 655 O. G. 298.

THOMAS F. MURPHY,
July 13, 1953. *Assistant Commissioner of Patents.*

## Appointment of Substitute Attorney—

## Concurrence of Applicant or Assignee of Entire Interest Required

The practice announced in Commissioner's Notice of July 19, 1948, 613 O. G. 20, of treating a "substitute" attorney as an "associate" is hereby discontinued. Hereafter, except as indicated below, no appointment of a substitute attorney will be accepted unless it is signed or concurred in by the applicant or the assignee of the entire interest.

The foregoing paragraph will not apply to cases where the name and membership of a firm are changed and a substitute power from the old firm to the new firm is filed.

In all cases where the substitute power is accepted, the name of the replaced attorney or firm will be cancelled from the file.

To insure uniformity of handling, all substitute powers of attorney should be forwarded immediately to the Docket Branch for acceptance and acknowledgment when properly signed or for return when not in compliance with this notice.

This notice supersedes the notice of July 19, 1948, and modifies the memorandum of March 31, 1950, to the extent indicated.

ROBERT C. WATSON,
July 13, 1953. *Commissioner of Patents.*

## Examination

Pursuant to the provisions of Rule 341(c), an examination for persons seeking registration before the United States Patent Office as patent attorneys or agents will be held on Monday, October 26, 1953.

This examination will be given under the supervision of the Civil Service Commission, and may be taken in any of the cities of the country in which the Civil Service Commission regularly conducts examinations. Applications to take the examination must be directed to the Commissioner of Patents and filed in the Patent Office not later than September 28, 1953.

Application blanks may be obtained from the Clerk of the Patent Office Committee on Enrollment, Room 3877, Department of Commerce Building.

THOMAS F. MURPHY,
July 2, 1953. *Chairman, Committee on Enrollment.*

## Disclaimers

2,175,053.—*Enoch T. Ferngren*, Jackson Heights, N. Y. PROCESS AND APPARATUS FOR WORKING ORGANIC PLASTIC MATERIAL AND PRODUCING CONTAINERS THEREFROM. Patent dated Oct. 3, 1939. Disclaimer filed July 2, 1953, by the assignee, *Plax Corporation*.

Hereby enters this disclaimer to claim 11 of said patent.

2,509,662.—*Franklin O. Wisman*, South Bend, Ind. GENERATOR. Patent dated May 30, 1950. Disclaimer filed June 10, 1953, by the assignee, *Bendix Aviation Corporation*.

Hereby enters this disclaimer to claim 1 of said patent.

2,581,109.—*Robert L. Kennpott*, Pleasantville, N. Y. COMPOSITE CAM AND CAM FOLLOWER MECHANISM. Patent dated Jan. 1, 1952. Disclaimer filed July 7, 1953, by the assignee, *George R. Stibitz*.

Hereby enters this disclaimer to claims 1, 2, 4, 6, 7, 8, 12, 13, 16, 17, and 18 of said patent.

2,588,546.—*Leighton Lee, II*, Rocky Hill, Conn. CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINES. Patent dated Mar. 11, 1952. Disclaimer filed July 3, 1953, by the assignee, *Niles-Bement-Pond Company*.

Hereby enters this disclaimer to claims 27 and 30 of said patent.

## Adjudicated Patent

(C. A. Ill.) Heckroth Patent No. 2,023,588, for a polishing machine. Claims 1, 5, 6, 8, and 14, *Held* valid and infringed. *Porter-Cable Machine Company* v. *Knives and Saws, Inc.*, 204 F.2d 21; 97 USPQ 286.

## Concurrent Use Proceeding

[No. 137]

*Egbert Leslie Lantron, his assigns or legal representatives, take notice:*

A concurrent use having been declared by this Office between the application of Mid-West Refineries, Inc., 704 Michigan National Bank Building, Grand Rapids, Michigan, for registration of a trade-mark, and Registration No. 535,124 issued December 26, 1950, to Egbert Leslie Lantron, Box 44, Mesa, Arizona, and the notice of such declaration sent by registered mail to the said Egbert Leslie Lantron, at the said address of record, having been returned by the post office as undeliverable, notice is hereby given that unless said Egbert Leslie Lantron, his assigns or legal representatives, shall enter an appearance therein, within thirty days from the first publication of this order, the concurrent use will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—July 28, 1953.)

THOMAS F. MURPHY,
July 8, 1953. *Assistant Commissioner of Patents.*

## Cancellation Notices

[No. 6097]

*Cadillac Wine Distributing Company, its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by Milan Wineries, 4109 Joe Street, Detroit 10, Michigan, to effect the cancellation of trade-mark registration of Cadillac Wine Distributing Company, 8900 Hubbell Avenue, Detroit, Michigan, No. 314,228, dated September 15, 1933, and the notice of such proceeding sent by registered mail to the said Cadillac Wine Distributing Company, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Cadillac Wine Distributing Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published for three consecutive weeks. (Date of first publication—July 21.)

THOMAS F. MURPHY,
June 29, 1953. *Assistant Commissioner of Patents.*

[No. 6064]

*Dixie Dee Dresses Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by the Malouf Company, 517 Jackson Street, Dallas, Texas, to effect the cancellation of trade-mark registration of Dixie Dee Dresses Inc., 463 Seventh Avenue, New York, N. Y., No. 502,202 registered September 14, 1948, and the notice of such proceeding sent by registered mail to the said Dixie Dee Dresses Inc., at the said address having been returned by the Post Office as undeliverable, notice is hereby given that unless Dixie Dee Dresses Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—July 28, 1953.)

THOMAS F. MURPHY,
July 6, 1953. *Assistant Commissioner of Patents.*



## Classification Order No. 148

June 29, 1953

The following changes in the classification of inventions are hereby directed to take effect immediately:

### ESTABLISH CLASSES

**317**—ELECTRICITY (Division 48)
(Originally part of former Class 175, classified 1905, Examiners unofficial reclassification and digests, 1905–1952, revised in part, 1953, by H. K. SAALBACH.)

**324**—ELECTRICITY, MEASURING AND TESTING (Divisions 48 and 69)
(Originally part of former Classes 171, 172 and 175, classified 1902–1905, Examiners unofficial reclassification and digests, 1902–1952, revised in part, 1953, by H. K. SAALBACH.)

Note: The subclass schedules, definitions of the above classes, and complete Classification Order No. 148, will appear in Classification Bulletin No. 414.

*IN THE MANUAL OF CLASSIFICATION:*

### ABOLISH CLASSES

171—ELECTRICITY, GENERATION (Division 69)
172—ELECTRICITY, MOTIVE POWER (Division 69)
175—ELECTRICITY, GENERAL APPLICATIONS (Division 48)

### ABOLISH SUBCLASSES

In *Class 315, Electric Lamp and Discharge Devices, Systems* (Division 54)

364 **Testing lamps and/or discharge devices**
365 Plural lamps and/or discharge devices in the testing circuit
366 Testing circuit for diverse type lamps and/or discharge devices
367 Circuits for making diverse tests
368 Testing discharge space characteristic
369 With application of current and/or potential to the discharge control means
370 Pulsating and/or alternating current and/or potential for the discharge control means
371 Pulsating and/or alternating current for the anode

### ESTABLISH SUBCLASSES

In *Class 148, Metal Treatment* (Division 3)
(R. E. MARTIN, *Classifier*)

1.5 **Barrier layer material making, P–N type** (to follow subclass 1)
**Stock**
Non-ferrous
33 Barrier layer material, P–N type (to follow subclass 32.5)

In *Class 254, Pushing and Pulling Implements* (Division 61)
(H. K. SAALBACH, *Classifier*)

134.3 **Wire or strand placing** (to follow subclass 134)
134.4 By fluid pressure differential in conduit (e. g., parachute sucked through conduit)
134.5 Tractor for pulling wire (e. g., battery powered)
134.6 Step by step type (e. g., by camming against messenger)
134.7 Sectional members for fishing

### CLASSES ARRANGED BY DIVISION

In Division 48:
Delete 175—GENERAL APPLICATIONS
Add 317—ELECTRICITY
324—ELECTRICITY, MEASURING AND TESTING, Subs. 1–91, 158

In Division 69:
Delete 171—ELECTRICITY, GENERATION
172—ELECTRICITY, MOTIVE POWER
Add 324—ELECTRICITY, MEASURING AND TESTING, Subs. 92–157

### CLASSES ARRANGED IN ALPHABETICAL ORDER

Delete 175—ELECTRICITY, GENERAL APPLICATIONS ---------- 48
171—ELECTRICITY, GENERATION---------- 69
172—ELECTRICITY, MOTIVE POWER---- 69
Add 317—ELECTRICITY ---------- 48
324—ELECTRICITY, MEASURING AND TESTING
Subs. 1–91, 158---------- 48
Subs. 92–157---------- 69

### CLASSES ARRANGED IN NUMERICAL ORDER

Delete 171—ELECTRICITY, GENERATION-------- 69
172—ELECTRICITY, MOTIVE POWER---- 69
175—ELECTRICITY, GENERAL APPLICATIONS ---------- 48
Add 317—ELECTRICITY ---------- 48
324—ELECTRICITY, MEASURING AND TESTING
Subs. 1–91, 158---------- 48
Subs. 92–157---------- 69

### PRINCIPAL DISPOSITION OF PATENTS IN ABOLISHED SUBCLASSES

| Abolished Class | Abolished Subclass | Disposition Class | Disposition Subclass |
|---|---|---|---|
| 171 | 34, 95 | 324 | 76+ |
| | 264 | | 137+ |
| | 265 | | 134+ |
| | 266 | | 94 |
| | 267 | | 139 |
| | 268 | | 116 |
| | 270 | | 92 |
| | 271 | | 106 |
| | 272 | | 139 |
| | 273 | | 136 |
| | 308 | | 106 |
| | 309 | | 138 |
| 172 | 245 | | 83+ |
| 175 | 21 | 317 | 158+ |
| | 30 | | 61+ |
| | 41 | | 242+ |
| | 41.5 | | 249+ |
| | 91 | | 89, 95 |
| | 115–117 | | 79+ |
| | 181 | | 1 |
| | 182 | 324 | 1+ |
| | 183 | | 13–20, 28–67, 69–77, 133 |
| | 214 | 317 | 73+ |
| | 215 | | 66 |
| | 220+ | | 105+ |
| | 264 | | 2 |
| | 265 | | 3, 4, 160, 267 |
| | 294 | | 9+ |
| | 296 | | 79+ |
| | 298, 300 | | 99+ |
| | 301+ | | 112+ |
| | 304–306 | | 99+ |
| | 307+ | | 117, 119, 120+ |
| | 315+ | | 230+ |
| | 320+, 335 | | 123+ |
| | 336 | | 165+ |
| | 337 | | 187, 188+ |
| | 338 | | 180+ |
| | 339 | | 172+ |
| | 340 | | 158+ |
| | 341 | | 191+ |
| | 342, 343, 344 | | 158+ |
| | 345 | | 198 |
| | 351+ | | 7+ |
| | 355+ | | 5+ |
| | 356 | | 158+ |
| | 356.2+ | | 210+ |
| | 357 | | 204 |
| | 358 | | 218 |
| | 359 | | 213 |
| | 360, 361 | | 215 |
| | 362 | | 219, 220, 222+ |
| | 366 | | 234 |
| | 367 | | 159+ |
| | 368 | 324 | 78+ |
| | 369+ | 317 | 119 |
| | 372 | | 178+ |
| | 373 | 307 | 132 |
| | 374 | 317 | 30 |
| | 375 | | 123+ |
| | 376+ | 254 | 134.3+ |
| | 381 | 324 | 68 |
| 315 | 364+ | | 20+ |

### PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES

| Established Class | Established Subclass | Source Class | Source Subclass |
|---|---|---|---|
| 148 | 1.5, 33 | 175 | 366 |
| | | Various | Various |
| 254 | 134.3+ | 175 | 376+ |
| 317 | 1 | | 181 |
| | 2 | | 264 |
| | 3, 4 | | 265 |
| | 5+ | | 355+ |
| | 7+ | | 351+ |
| | 9+ | | 294, 374 |
| | 61+ | | 30+ |
| | 79+ | | 91, 115–117, 296 |
| | 99+ | | 220+, 298, 300–310, 369+ |
| | 123+ | | 320+, 335, 375 |
| | 158+ | | 21+, 336+, 356+ |
| | 230+ | | 315+ |
| | 234+ | | 366 |
| | 242+ | | 41+ |

**PRINCIPAL SOURCE OF PATENTS IN ESTABLISHED SUBCLASSES**

| Established Class | Subclass | Source Class | Subclass |
|---|---|---|---|
| | 262 | | 265 |
| 324 | 1+, 13 | | 182 |
| | 14, 15+ | | 183 |
| | 20+ | | 183 |
| | | 315 | 364+ |
| | 28–67 | 175 | 183 |
| | 68 | | 381 |
| | 69–75 | | 183 |
| | 76 | | 183 |
| | | 171 | Various |
| | 77 | 175 | 183 |
| | 78+ | | 368 |
| | | 250 | 39 |
| | | 171 | Various |
| | | 172 | 245 |
| | 83+ | | 245 |
| | 92–157 | 171 | Various |
| | 158 | 175 | 183 |

**SUBCLASS SCHEDULES**

**Class 317, Electricity**

(Originally part of former Class 175, classified 1905, Examiners unofficial reclassification and digests, 1905–1952, revised in part, 1953, by H. K. SAALBACH.)

1 **Demagnetizing**
2 **Discharging static electricity**
3 **Particle charging** (e. g., **Fluid spray**)
4 **Ionizing** (e. g., **Injecting ions into atmosphere**)
5 **Speed controlled systems**
6 Synchronization of shafts
7 **Polarity reversing**
8 Automatic
9 **Safety and Protection: systems and devices**
10 System adjusts to varying leakage current (e. g., wet weather)
11 Contact-arc suppression
12 Capacitor protection
13 Electromagnetic device protection (e. g., dynamo, converter)
14 Transformer protection
15 Transformer with structurally combined protective device (e. g., fuse, arrester)
16 By shunting or impedance insertion
17 Ground removers or suppressors (e. g., Peterson coil)
18 By disconnection
19 Overspeed responsive
20 By regulating source (e. g., generator field killed)
21 Prime mover control
22 With subsequent automatic restoration
23 With sensing of line condition after tripping
24 Reclosing of one phase of polyphase system
25 Plural breakers operate in predetermined sequence
26 Plural parallel interconnected feeders (e. g., differential protection)
27 Responsive to conditions at plural points in network (e. g., compares phase)
28 Only faulty section of serially connected sections disconnected
29 Only faulty section of serially connected sections disconnected
30 Constant current systems
31 Voltage responsive (e. g., low voltage tripping)
32 Voltage restraining means prevents disconnection
33 High voltage protection (e. g., lightning)
34 Surge prevention (e. g., choke coil)
35 Too-large fault makes breaker inoperative (e. g., another breaker clears fault)
36 With time delay means
37 Thermal delay means (e. g., combined thermal-electromagnet relay)
38 With additional instantaneous control (e. g., responsive to size of fault)
39 Reverse energy or reverse current responsive
40 Thermal (e. g., disconnect if cooling fails)
41 Temperature responsive resistor (e. g., thermistor)
42 In arm of Wheatstone bridge
43 Reverse energy or reverse current responsive
44 With specific transmission line (e. g., guarded)
45 Plural conductors in single sheath (e. g., compound)
46 One bad line opens all (e. g., 3 wire, D. C.)
47 With phase sequence network analyser
48 Reverse phase responsive
49 Transient non-responsive (e. g., ignores surge on transmission line)
50 Transient (e. g., double size initial surge) responsive, steady state nonresponsive
51 With space discharge means
52 With rectifier (e. g., in trip circuit)
53 With tuned circuit
54 With manual control (e. g., remote manual control plus automatic)
55 For closing
56 Relay control of circuit breaker (e. g., A. C. induction relay)
57 Breaker actuated by removing trip coil shunt
58 With specific circuit breaker structure
59 Pneumatically operated
60 Miscellaneous circuit breaker systems
61 High voltage dissipator per se (e. g., lightning arrester)
62 Vacuum or gas filled space discharge (e. g., compressed air)
63 Fluid (e. g., mercury, quenching)
64 Electrolytic
65 Gas blast
66 Thermal (e. g., fusible, bimetallic)
67 Interposed composition
68 Conductive composition
69 Plural gaps (e. g., common electrode)
70 For single line
71 Combined (e. g., with disconnect switch)
72 With line supporting insulator
73 With magnetic means (e. g., electromagnet)
74 To lengthen arc (e. g., blow out)
75 By separating contacts
76 For grounding line
77 Horn gap
78 With resistance insertion
79 **Igniting** (e. g., **Systems**)
80 Explosive devices (e. g., rockets, dynamite)
81 With electro-mechanical generator (e. g., electrostatic)
82 Combined spark and incandescent igniter
83 With fuel burner
84 Thermal control
85 With valve (e. g., valve and igniter operate together)
86 Make and break igniter
87 Incandescent igniter
88 Wick type
89 Disengageable portable torch with stationary igniter
90 Make and break igniter
91 Incandescent igniter
92 Electromagnetically controlled igniter
93 Make and break igniter
94 Incandescent igniter
95 Held-in-hand type
96 Electric spark igniter
97 Make and break gap
98 Incandescent igniter
99 **Switchboards and analogous devices** (e. g., **Plural components with spacing means, distribution boards**)
100 Cooling
101 Radio type
102 Dentists stand type
103 High tension
104 With meter
105 Protective mounts
106 Plural meters
107 With special meter casing or terminal structure
108 With circuit controller or connector
109 Combined box and meter exterior thereto
110 Abutting
111 Meter circuit or terminal enclosures
112 With switch (i. e., moveable contact)
113 Relay (e. g., plug in)
114 And fuse
115 Pivoted type
116 With fuse
117 Sectional (e. g., panel board, housing)
118 With terminal
119 Panel board
120 With housing
121 Corner iron joining means
122 Wire distribution (e. g., harness)
123 **Electric circuits for relays and electromagnets**
124 With photosensitive device
125 Photocell controls its optical system
126 Electron multiplier
127 Plural cathodes, anodes or photocells
128 Special photocell
129 Self generating type
130 Electron tube circuits
131 Compensation for thermal changes
132 Thermal (e. g., control, cooling, thermistor)
133 Curie point
134 Code responsive or secret (e. g., door lock)
135 Plural serially connected switches (e. g., concurrence safety control)



136 Interlocking (e. g., plural armatures)
137 Plural relays or electromagnets (e. g., selective control)
138 Frequency responsive
139 Sequential operation
140 Pulse responsive (e. g., counting chains)
141 Time delay
142 With space discharge device
143 Magnetostrictive
144 Electrostatic (e. g., piezoelectric, Winslow effect)
145 Non-sinusoidal (e. g., sawtooth) current
146 Oscillator controlled (e. g., variable grid bias type)
147 Frequency responsive
148 With saturable reactor
149 With space discharge device (e. g., thyratron)
150 Polarized
151 Condenser fed winding
152 Contact pressure increasing
153 With Wheatstone bridge circuit (e. g., relay windings are bridge arms)
154 With holding means (e. g., holding contact)
155 Auxiliary holding coil
156 Alternating current
157 Relay circuits
158 **Magnets, electromagnets, transformers and inductors**
159 For holding separate device
160 Blade sharpener (e. g., razor)
161 Magnetic particles (e. g., in lubricant)
162 Workpiece-to-magnet adapter (e. g., to bridge flux)
163 Electromagnetic (e. g., chuck for workpiece)
164 Lifting type (e. g., for scrap iron crane)
165 Magneto-mechanical motive device (e. g., electromagnet with armature)
166 With relatively moveable conductors (e. g., D'Arsonval, dynamometer)
167 Induced current type (e. g., eddy current disk)
168 Short-circuited coil (e. g., field repelling ring)
169 Magnetostrictive
170 Snap action (e. g., magnetic biasing)
171 With permanent magnet (e. g., P. M. with armature)
172 Polarized electromagnet
173 Varying amplitude type (e. g., loudspeaker, telemetering)
174 Plural armature
175 With auxiliary (e. g., manual) means to move armature
176 Adjustable (e. g., pull, release time)
177 Magnetic shunt
178 With time delay means
179 Thermal type
180 Alternating current type
181 With transformer
182 Vibrating armature
183 Dephasing
184 Shading coil
185 Antivibration (e. g., spring vibration absorber)
186 Moving core (e. g., plunger)
187 Interlocks and latches
188 Plural coil
189 Plural armatures
190 Plunger type
191 Core armature (e. g., plunger)
192 Combined axial and rotative motion
193 With magnetic saturation
194 Antistick
195 Absorber for internal or external shock or vibration
196 Ball armature
197 Center pivot for armature
198 Armatures
199 With special stroke-pull characteristic
200 Electronic and ionic beam deflecting
201 Permanent magnets (e. g., keepers)
202 Composition
203 For magnetizing or demagnetizing
204 With integral switch, condenser or electrostatic shield (e. g., ignition, Ruhmkorff coil)
205 With lock for preventing unauthorized use
206 Transformer with capacitative element (e. g., electrostatic shield)
207 With thermal feature (e. g., thermal compensation)
208 Cooling
209 Hollow conductor type
210 Inductive regulators, saturable type or high leakage reactance type
211 With magnetic shunt to increase leakage reactance
212 Air gap in magnetic shunt
213 Non-ferromagnetic core (e. g., air core)
214 Magnetic dust core
215 With casing or magnetic shield
216 Plural windings (e. g., transformers, ignition coils)
217 Turn links fraction of core segment (e. g., "fractional turn")
218 Current transformer
219 Equalizing properties of plural windings or sections (e. g., surge voltage distribution)
220 Coil structure
221 With terminal
222 Coil structure
223 Axial spacers for sectional coil
224 Coil supports (e. g., spool)
225 Axial clamp
226 Insulation (e. g., impregnated)
227 Core structure (e. g., stacked laminations)
228 Mounting or clamps
229 Nested or wound non-flat laminations
230 **Electrolytic** (e. g., **Condensers, cell vents**)
231 Systems (e. g., plural cells, standby exciting voltage)
232 Current interruption type (e. g., circuit breaker, DC-to-pulse converter)
233 Rectifiers
234 **Barrier layer devices** (e. g., **With cooling fins, housings**)
235 With control means (e. g., transitors, thermally controlled, magnetically controlled)
236 With point contact
237 With chemical compound as current conductor (e. g., sulphide)
238 Metal oxide (e. g., $Cu_2O$, BaO, $WO_3$)
239 Germanium conductor
240 Silicon conductor
241 Selenium or tellurium conductor
242 **Condensers**
243 Cooling
244 Vacuum or gas filled (e. g., compressed air)
245 Variable
246 Automatically responsive or non-responsive to condition
247 Thermal condition
248 Variable
249 Variable (e. g., compression type)
250 Motor driven
251 Sliding plates
252 Spiral or helical plates
253 Rotary plates
254 Plural condensers (e. g., ganged)
255 With controlling or indicating means
256 Combined
257 Electrical socket
258 With significant material
259 Having stabilizing means
260 Rolled electrodes
261 Stacked electrodes
262 **Miscellaneous** (e. g., **Electric cloud dispersal**)

**Class 324, Electricity, Measuring and Testing**

(Originally part of former Classes 171, 172 and 175, classified 1902–1905, Examiners unofficial reclassification and digests, 1902–1952, revised in part, 1953, by H. K. SAALBACH.)

1 **Geophysical surface or subsurface exploration in situ**
2 Well fluid entry
3 Small object detection or location (e. g., explosive mines, treasure)
4 By aerial survey (e. g., from airplane, from towers)
5 With radiant energy or non-conductive type transmitter (e. g., oscillator search coil variably loaded by formation, bore hole acts as waveguide)
6 With separate pickup or detector
7 With radiant energy or non-conductive type receiver (e. g., measuring induction fields due to earth currents)
8 By magnetic means (e. g., by measuring earths field)
9 Electrode arrays or structure
10 Bore hole type
11 Bore hole fluid compositions
12 Divining rods
13 **Core sample analysis**
14 Magnetic orientation of core sample
15 **Internal combustion engine ignition system testing** (e. g., **Spark plug test fixture**)
16 Quantitative tests
17 With gaseous discharge type tester (e. g., airgap, neon tube)
18 Plural gaps or gaseous discharges
19 Spark plug or ignition circuit grounding tools
20 **Lamp** (e. g., **Lumens per watt**) **and discharge device** (e. g., **Triode**) **testing**
21 Plural lamps and/or discharge devices in the testing circuit
22 Testing circuit for diverse type lamps and/or discharge devices
23 Circuits for making diverse tests
24 Testing discharge space characteristic (e. g., emission)

25 With application of current and/or potential to the discharge control means
26 Pulsating and/or alternating current and/or potential for the discharge control means
27 Pulsating and/or alternating current for the anode
28 **Contact, relay and switch testing**
29 **Electrolytic** (e. g., **Dry cell short circuit current**)
30 pH measurement or conductivity
31 With dropping mercury cell
32 **Triboelectric, thermoelectric or electrostatic** (e. g., **For metal identification**)
33 **Ionization** (e. g., **Pressure gage**)
34 **Magnetic**
35 Nuclear induction
36 Gas testing (e. g., $O_2$ concentration)
37 Flaw detection (e. g., railway rails)
38 By use of metal particles
39 Rail joint cutout
40 Hysteresis or eddy current
41 Metal particles (e. g., detection of tramp metal)
42 Permanent magnet testing
43 Testing magnetic field (e. g., magnetostrictive detector)
44 Cathode ray
45 Hall effect
46 Field responsive resistance
47 Electromagnetic induction
48 Permanent magnet (e. g., compass needle)
49 **High frequency** (e. g., **Resonant cavity**)
50 Voltage probe
51 **Fault testing** (e. g., **Circuit continuity, ground**)
52 Fault location
53 Flashlight tester type
54 **Insulation testing**
55 **Transformer testing** (e. g., **Ratio**)
56 **Piezoelectric crystal testing** (e. g., **Frequency, resistance**)
57 **Impedance, admittance and related quantities**
58 With waveguide or long line (e. g., resonant cavity)
59 Inductive reactance
60 Capacitative reactance
61 To determine non-electric property (e. g., moisture)
62 Resistance or conductivity
63 Calibration of variable resistance (e. g., potentiometer)
64 By drop of potential
65 To determine non-electric property (e. g., moisture)
66 **Conductor identification or location** (e. g., **Phase identification**)
67 Inaccessible (at test point) conductor (e. g., buried in wall)
68 **Speed and time**
69 Speed comparison
70 With event sensing means (e. g., shaft rotation)
71 **Determining non-electric properties by measuring electric properties**
72 **Testing potential in specific environment** (e. g., **Lightning stroke**)
73 **Plural tests**
74 **Testing and calibrating electric meters** (e. g., **Watthour meters**)
75 By stroboscopic means
76 **Measuring, testing or sensing electricity per se**
77 Analysis of complex waves
78 Frequency of cyclic current or voltage (e. g., cycle counting)
79 By frequency comparison (e. g., Heterodyne)
80 Tuned mechanical resonator (e. g., reed, piezocrystal)
81 By tuning (e. g., to resonance)
82 By phase comparison
83 Phase comparison (e. g., between cyclic pulse voltage and sinusoidal current)
84 With wave guide (e. g., coaxial cable)
85 With frequency conversion
86 Polyphase (e. g., phase angle, phase rotation or sequence)
87 With non-linear device (e. g., saturable reactor, rectifier), discharge device (e. g., gas tube) or lamp
88 Cathode ray
89 Space discharge control means (e. g., grid)
90 Electrodynamometer instrument
91 Synchroscope type
92 Fluid (e. g., thermal expansion)
93 Conductive fluid (e. g., mercury)
94 Electrolytic
95 With wave guide or long line
96 Using radiant energy
97 Light beam type (e. g., mirror galvanometer, parallax-free scale)
98 Balancing (e. g., known-unknown voltage comparison, bridge, rebalancing)
99 Automatic
100 With recording
101 Non-rebalancing bridge
102 Transient or portion of cyclic
103 Demand, excess, maximum or minimum (e. g., separate meters for positive and negative power, peak voltmeter)
104 Thermal (e. g., actuation)
105 Thermal (e. g., compensation)
106 Actuation
107 Polyphase
108 Positive, negative or zero sequence
109 Electrostatic attraction or piezoelectric
110 Meter protection or fraud combatting
111 With storage means for voltage or current (e. g., condenser banks)
112 Tape, sheet (e. g., disk) or wire (e. g., magnetic) storage
113 Recording
114 Plural meters (e. g., plural movements in one case)
115 Plural ranges, scales or registration rates
116 With register (e. g., discount type, demand penalty)
117 Magnetic saturation (e. g., in field or in amplifier)
118 Modulator-demodulator
119 With rectifier (e. g., A. C. to D. C.)
120 With voltage or current conversion (e. g., D. C. to A. C., 60 v. to 1000 v.)
121 Cathode ray (e. g., magic eye)
122 Gaseous discharge (e. g., spark gap voltmeter)
123 With amplifier or space discharge device
124 Inverted amplifier
125 Inertia control, instrument damping and vibration damping
126 With coupling means (e. g., attenuator, shunt)
127 Transformer (e. g., split core admits conductor carrying unknown current)
128 Selective filter
129 Polepiece (e. g., split) admits non-unitary input conductor
130 Self calibration
131 Suppressed zero
132 Non-linear (e. g., Thyrite)
133 Non-quantitative (e. g., hot line indicator, polarity tester)
134 With commutator or reversing or pulsating switch (e. g., D. C. watthour meter)
135 Oscillating
136 With rolling wheel or ball (e. g., transmission, integrating)
137 Eddy current rotor (e. g., A. C. integrating wattmeter)
138 With phase adjustment
139 Motor driven, time controlled or oscillating (e. g., ratchet)
140 Plural inputs (e. g., summation, ratio)
141 Voltamperes (real or reactive)
142 Watts
143 Plural active motor elements (e. g., for two crossed pointers)
144 With electromagnetic field (e. g., dynamometer)
145 Solenoid plunger type
146 With permanent magnet (e. g., field, vane)
147 Soft iron vane
148 With phase shift means
149 With probe, prod or terminals
150 Eccentrically pivoted coil
151 With permanent magnet
152 Drag magnet
153 With register
154 With rotor (e. g., fiber suspension, zero set, balancing)
155 With pivot (e. g., internal, friction compensation, anti-creep)
156 Casings
157 Combined
158 **Miscellaneous**

M. C. ROSA,
*Executive Examiner.*

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,547,437. Explosive Rivet Firing Device. Patented Apr. 3, 1951. Explosive rivet firing device has a shank portion surrounded by a heating coil. A rod of high heat conductivity extends axially from the shank and terminates in a smooth end-contacting tip. A sleeve of low heat conductivity surrounds the rod to confine it against radial expansion and prevents mushrooming of the tip under recoil effect of an exploding rivet in contact with the tip. The rear end of the sleeve abuts the front end of the shank and secures the sleeve against rearward axial movement along the rod. (Owner) Easy Washing Machine Corporation. Correspondence to F. P. Keiper, Easy Washing Machine Corporation, Solar, Spencer and Clinton Sts., Syracuse 1, N. Y. Group 35—42. Reg. No. 51,280.

Pat. 2,479,288. Flexible Electromagnetic Wave Guide. Patented Aug. 16, 1949. Electromagnetic wave guide comprises an innermost hollow tube formed of conducting wire mesh, and a rubber sleeve surrounding and bonded to the tube for supporting the same and substantially maintaining the original cross section of the tube when the wave guide is subjected to flexural or torsional stress. The interior of the tube is devoid of all matter except air whereby the sole dielectric within the tube is an air core of high power factor. (Owner) National Research Development Corporation. Correspondence to C. S. Cross, 1800 K St., N. W., Washington, D. C. Group 36—19. Reg. No. 51,281.

Pat. 2,536,734. Cataphoretic Deposition of Boron. Patented Jan. 2, 1951. Method of depositing boron coatings on electrically conducting surfaces and particularly on metal surfaces, whereby thickness of the coatings may be readily controlled. The method involves applying a unidirectional electrical potential across an anode, which comprises the electrically conducting surface to be coated, and a cathode through a suspension of finely divided boron, preferably of particle size up to 10 microns, in a substantially anhydrous medium comprising a cellulose derivative as a dispersion agent for the boron and a solvent for the cellulose derivative. The boron coating composition is also claimed. (Owner) National Research Development Corporation. Correspondence to C. S. Cross, 1800 K St., N. W., Washington, D. C. Group 34—72. Reg. No. 51,282.

Pat. 2,630,941. Portable Charcoal Container and Dispenser. Patented Mar. 10, 1953. This portable charcoal container and dispenser is adapted to receive and retain a bagful of charcoal. On the end of the container are two gates, the upper of which opens easily on pouring the charcoal, while the lower gate is released from the hand grip so that the full contents of the bag can be dispensed easily and readily at such time as when the contents have been nearly depleted. The charcoal container is of simple construction, light in weight, durable, and of pleasing appearance. (Owner) Richard J. Cannellini, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Groups 33—73; 40. Reg. No. 51,283.

Pat. 2,528,259. Dosage Time Indicating Means. Patented Oct. 31, 1950. An inexpensive device for indicating the time for the next dose of medicine from a bottle. On the ordinary pharmacist's prescription label are printed "Next Dose" and an arrow pointing downward, at the lower edge, or upward at the upper edge. A strip of paper bearing the numbers 1 through 12, with marks between for the half hours, is designed to be wrapped around the bottle, and adhesive on one end of the strip moistened and overlapped upon the other end, forming a band which may be shifted around the bottle to bring the desired number in alignment with the arrow. If placed below the pharmacist's label, the band is kept from slipping down by a conventional "Shake Well Before Using" or similar label below it. If placed above, the pharmacist's label prevents the band from slipping down. (Owner) Jasper S. Annunziata, 805 South Elmwood Ave., Oak Park, Ill. Groups 26—33; 27—51. Reg. No. 51,284.

Pat. 2,506,584. Navigational Plotting Device. Patented May 9, 1950. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Plotting apparatus for use in charting positions of objects surrounding a ship or shore station over successive discrete time intervals, whereby a continuous check on the position and movement, either relative or absolute, of the surrounding objects may be maintained at all times. The apparatus is effective to produce, on a substantially plane transluscent surface, a spot of light corresponding to an object spaced from a predetermined point, which spot of light may be moved quickly and easily to other positions corresponding to other objects. (Owner) Ray Duns, 4508 Cedros Ave., Sherman Oaks, Calif. Group 39—11. Reg. No. 51,285.

Pat. 2,606,527. Eyebrow Pencil. Patented Aug. 12, 1952. Self-sharpening eyebrow pencil includes a hollow casing having a slot in which a holding element of two resiliently connected pieces is movable longitudinally and has a threaded projection onto which an eyebrow crayon is attached. A sleeve surrounding the forward end of the casing is rotatably secured thereto by a locking ring, which fits in grooves on the exterior surface of the casing and the interior of the sleeve. Cutting wires secured in the sleeve extend forwardly therefrom and through openings in the casing cover. The projection moves the holding element together with the crayon back and forth through the sleeve and cover and, when desired, into contact with the cutting wires, whereby the crayon may be sharpened by rotating the sleeve, cover, and cutting wires as a unit. (Owner) Jerome R. Cox, 50 West Broad St., Columbus 15, Ohio. Groups 39—81; 40. Reg. No. 51,286.

Pat. 2,518,606. Baled Hay Loader. Patented Aug. 15, 1950. A loader on two wheels is connected in a trail-behind manner to the rear of a hay baler. A draw bar hitch from the axle of the loader to the baler carries an elongated floor on which bales of hay from the baler are pushed by succeeding bales toward the back where a rounded, upwardly inclined chute extending rearwardly of the axle gives the bales a right angle turn. Here a chain conveyor running parallel to the axle raises the bales and pushes them upward and through a chute onto a vehicle alongside the loader. The lower end of the conveyor passes over a driving sprocket structure connected with a bevel gear arrangement which is driven from a shaft connected with one of the wheels. In the shaft connection is a clutch operated by a hand lever so the conveyor may be disengaged when the loader is being taken to and from the field. The whole structure is so supported and counterbalanced as to be easily carried upon two wheels. (Owner) Eugene I. Eicher, 3114 Farmington Road, Peoria, Ill. Group 35—22. Reg. No. 51,287.

Pat. 2,630,011. Motor Vehicle Oil Level Indicator. Patented Mar. 3, 1953. Device for indicating on the instrument panel of a motor vehicle the oil level in the crankcase. An auxiliary container is connected to the crankcase so that the level of the oil therein will correspond to the level in the crankcase. A piston in a power cylinder above the container has a depending piston rod extending into the container. A transparent cylinder containing a float and provided with an overflow pipe is positioned adjacent the instrument panel and is connected by a tube to the power cylinder. When the oil is to be checked, a pump is operated to force oil from the crankcase into the power cylinder and through a restricted aperture in the piston into the transparent cylinder to raise the float therein. A valve in the discharge side of the pump is then turned to permit the oil in the power cylinder to flow back into the crankcase and allow the piston to drop until the piston rod engages a float in the auxiliary container. As the piston descends, the level of the oil in the transparent cylinder drops until the piston is arrested. A pointer actuated by the float in the transparent cylinder then indicates the level of the oil in the crankcase. (Owner) Maurice Butts, Thayer, Iowa. Group 38—31. Reg. No. 51,288.

Pat. 2,601,311. Jet Propulsion Engine. Patented June 24, 1952. Jet propulsion engine has a plurality of conical shaped nozzles, each consisting of inner and outer concentric walls with the area between the walls filled with asbestos or other suitable material. The small closed end of each nozzle is provided with a protruding tube for connection to a source of gaseous fuel, and the large open end contains a closure plate positioned against the outer end of the inner wall of the nozzle. The closure plate has a dome shaped element extending into the nozzle and is supported by and connected to a disc by bolts with springs surrounding the bolts to provide a resilient connection between the plate and disc. The disc is connected to one end of an arcuate spring arm hinged to the outer side of the nozzle. Timing mechanism is provided for simultaneously opening the closure plate and completing a circuit to a spark plug in the side of the nozzle, and control means intermittently supply gaseous fuel to the nozzle. (Owner) Clarence J. McCormick, 726 South Madison St., Hinsdale, Ill. Group 37—22. Reg. No. 51,289.

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Pat. 2,634,026. Automatic Cosmetic Dispenser. Patented Apr. 7, 1953. A dispenser for a replaceable cartridge of toothpaste or the like, in which the inserting of a toothbrush in a side opening deposits a small amount of the contents thereon. A tubular casing is partitioned horizontally into two compartments. In the upper compartment a movable disc in an inserted cartridge of toothpaste is urged downwardly against the contents by a spring which is carried on the under side of the casement closure. In the partition is an opening, with prongs extending upward to puncture the cartridge, through which the contents are dispensed. In the lower compartment a slider is positioned by a spring to hold a slidable gate normally closing the partition opening until a toothbrush is pushed against it through a side opening, whereupon the slider engages a projection on the gate to open it. As the brush is withdrawn, the slider engages another projection to again close the gate. Modification shown. (Owner) John C. C. Yuan, 2800 Woodley Road, N. W., Washington 8, D. C. Group 40. Reg. No. 51,290.

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Pat. 2,430,325. Gate Construction and Operating Unit Therefor. Patented Nov. 4, 1947. Gate construction and operating unit therefor which may be operated without dismounting from a vehicle. One of a pair of posts between which a gate is located carries the operating unit, and the other post carries a keeper. One end of the gate is mounted on the unit for limited tilting movement, and the opposite end of the gate is free and has a slot carrying a pivoted latch bolt to engage the keeper. The walls of the slot form stops in the path of the latch bolt. Operating unit includes a ring with a disc rotatively mounted therein in combination with a rotatable shaft, the upper end of which is fixedly secured in an off-center position to the disc. Rotation of the shaft and disc will lift and tilt the gate at the beginning of the opening movement to raise the latch bolt out of the keeper and displace the center of gravity of the gate so that the gate will swing by the force of gravity. (Owner) Roy Bransky, 411 12th St., Hood River, Oreg. Groups 25—99; 33—81. Reg. No. 51,291.

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The following two patents, which were previously registered by E. I. du Pont de Nemours and Company as being available for unrestricted licensing and listed in the *Register* section of the OFFICIAL GAZETTE of Dec. 28, 1948, are hereby removed from that category and offered by the company for licensing on ressonable terms under the conditions, to the extent, and for the term for which the Du Pont Company can grant such licenses.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington, Del.

Pat. 2,131,074. Agglomerating Comminuted Zinciferous Materials. Patented Sept. 27, 1938. Comminuted zinciferous material mixed with wetting agent, kneaded, vacuum extruded to form agglomerates. Group 34—29. Reg. No. 51,292.

Pat. 2,164,950. Process for Forming Agglomerates. Patented July 4, 1939. Vacuum extrudes a plasticized comminuted mineral material. Group 34—29. Reg. No. 51,293.

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Textile and Chemical Research Company Ltd. offers the following 14 patents for non-exclusive licensing on reasonable terms. Applications for license may be addressed to Textile and Chemical Research Company Ltd., % N. L. Leek, 10 East 40th St., New York, N. Y.

Pat. 2,450,750. Spinning Bath Tank. Patented Oct 5, 1948. A tank for spinning baths for use in the spinning of filaments from viscose having upper and lower rear compartments and upper and lower forward compartments arranged to provide for a flow of the bath liquor in parallel streams with as little turbulence as possible. Under the effect of the filament travel the two streams of bath liquor are enveloped by a horizontally moving bath which insures coagulation and regeneration of the filament. Group 28—83. Reg. No. 51,294.

Pat. 2,464,150. Twister Ring and Traveler. Patented Mar. 8, 1949. Ring twister has an oil groove to receive drippings from the yarn and discharge them to the outside of a shield. Group 35—52. Reg. No. 51,295.

Pat. 2,464,151. Ring Twister. Patented Mar. 8, 1949. Ring twister in which the traveler is mounted on a ring which is adjustably mounted on the outside of a shield and is adjustable in height relative to the shield. Group 35—52. Reg. No. 51,296.

Pat. 2,468,803. Method of Purifying Sodium Sulfate. Patented May 3, 1949. Method of purifying sodium sulfate by the simultaneous addition thereto of trisodium phosphate and sodium sulfate. Group 28—89. Reg. No. 51,297.

Pat. 2,468,838. Filtering Apparatus. Patented May 3, 1949. Filtering apparatus has a conical tank and a filter bed so disposed that liquid passes through the bed. The tank includes means for backwashing, and an ejector for withdrawing the bed and introducing a new bed into the tank. Group 35—69. Reg. No. 51,298.

Pat. 2,495,235. Method of Preparing Viscose. Patented Jan. 24, 1950. Method of preparing a viscose solution in which viscose is treated in a kneading machine with control of the rate of speed of the rotary kneading mechanism during the various stages of the preparation. Group 28—83. Reg. No. 51,299.

Pat. 2,512,488. Spinneret and Mounting Therefor. Patented June 20, 1950. A spinneret cap mounting in which the cap is screwed over a holder and secured by a clamping ring, and a detachable protective covec protects the spinneret when not in use. Groups 35—52; 39—81. Reg. No. 51,300.

Pat. 2,542,314. Method of Making Mixed Yarn. Patented Feb. 20, 1951. Method of preparing colored mixed yarns which involves mixing undyed cotton fibers with dyed regenerated cellulose fibers of a denier of less than 1 and spinning the blend into a yarn. Group 22—13. Reg. No. 51,301.

Pat. 2,563,644. Dialytic Membrane and Method of Producing Same. Patented Aug. 7, 1951. A moist dialytic membrane produced by the gelling at low temperature of a thin layer of polyvinyl acetal from a solution thereof and a high boiling solvent. The membrane has high permeability to crystalloids, low permeability for colloids, and relatively high mechanical strength. Group 28—83. Reg. No. 51,302.

Pat. 2,563,665. Valve. Patented Aug. 7, 1951. Valve for controlling the introduction of a viscose spinning solution under pressure into a chamber maintained under a reduced pressure with positive cutoff. The valve includes a flexible diaphragm which is responsive to the pressure of the viscous fluid and is normally maintained on its seat by the reduced pressure in the discharge chamber. Group 35—69. Reg. No. 51,303.

Pat. 2,591,242. Process for the Manufacture of Yarns From Hydroxylated Polyvinyl Compounds. Patented Apr. 1, 1952. Method of removing the adherent ammonium sulfate powder from films made by spinning solutions of hydroxylated polyvinyl compounds into a bath containing ammonium sulfate which involves drawing the spun yarn between stationary friction members to scrape the powder from the surface of the yarn. Group 28—51. Reg. No. 51,304.

Pat. 2,591,295. Cop-Type Bobbin and Package Wound Thereon. Patented Apr. 1, 1952. A yarn package on a bobbin having symmetrical frusto-conical end portions in which the yarn layers are progressively offset from one end of the bobbin to the other to produce a barrel shaped package. Group 35—52. Reg. No. 51,305.

Pat. 2,601,400. Steeping Press. Patented June 24, 1952. Steeping press for steeping cellulose pulp sheets in caustic soda solution has a section to compact the sheets and convey the compacted sheets over a hopper for discharge. Group 35—69. Reg. No. 51,306.

Pat. 2,608,151. Steeping Press. Patented Aug. 26, 1952. Steeping press for steeping cellulose pulp sheets in caustic soda solution has a valve arranged to automatically control a pair of valves for separating the steeping liquid from the expressed caustic soda at the beginning and at the end of the movement of the compacting platon. The drained caustic is treated with appropriate quantities of fresh caustic for re-use, and the expressed caustic is purified by dialysis. Group 35—69. Reg. No. 51,307.

# TRADE-MARKS

## OFFICIAL GAZETTE, AUGUST 4, 1953

[VOL. 673. No. 1]

## ACT OF 1946

**The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.**

**As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.**

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 601,605. The Dow Chemical Company, Midland, Mich. Filed Aug. 2, 1950.



For Synthetic Resinous Plastics—Namely, Polymerized Styrene, Polymerized Vinylidene Chloride, and Ethyl Cellulose, in the Form of Film and Sheeting.

Claims use since April 1947.

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Ser. No. 621,014. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 8, 1951.

ISCO

For Bentonite, Blanc Rouge, China Clay, Decomposed Flint, Gum Arabic, Gum Chatti, Gum Karaya, Locust Bean Gum, Gum Tragacanth, Irish Moss, Kaolin, Magnesite, Processed Silica, and Talc.

Claims use since Jan. 22, 1951.

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Ser. No. 621,015. Innis, Speiden & Co., Inc., New York, N. Y., assignee of International Minerals & Chemical Corporation. Filed Nov. 8, 1951.

ISCO

For Bentonite, Blanc Rouge, China Clay, Decomposed Flint, Gum Arabic, Gum Chatti, Gum Karaya, Locust Bean Gum, Gum Tragacanth, Irish Moss, Kaolin, Magnesite, Processed Silica, and Talc.

Claims use since Jan. 22, 1951.

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Ser. No. 621,733. Süddeutsche Zellwolle A. G., Kelheim-Ost, Germany. Filed Nov. 27, 1951.

**Danufil**

Applicant claims ownership of German Registration No. 509,734, dated Apr. 13, 1939.

For Rayon Staple Fiber.

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Ser. No. 623,263. United Collieries, Inc., Cincinnati, Ohio. Filed Jan. 5, 1952.




The pepper is lined for red with the superimposed words contrasted in any desirable manner. The exclusive use of the word "Coal" apart from the mark as shown is disclaimed. Applicant claims ownership of Registration No. 312,771.

For Coal.

Claims use since Mar. 1, 1931.

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Ser. No. 629,662. The General Tire & Rubber Company, Akron, Ohio. Filed May 14, 1952.

**GENFILM**

For Flexible Polymeric Material in Rolls or Sheets for Further Use in the Industrial Arts.

Claims use since Oct. 15, 1951.

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Ser. No. 638,209. Ralph A. Raschig, Town of Brookfield, Wis. Filed Nov. 18, 1952.

**FIRE-MADE**

Applicant disclaims the word "Fire" except as a part of the trade-mark "Fire-Made."

For Pyrophoric Material—Namely, Wadding Treated To Burn With a Large Flame.

Claims use since on or about December 1950.

Ser. No. 638,654. The Kono Manufacturing Company, Woodside, N. Y. Filed Nov. 26, 1952.

KONYL

For Resinous Plastic Material in the Form of Sheets Used in the Manufacture of Spectacle Frames.
Claims use since Sept. 11, 1952.

Ser. No. 639,227. Karg Brothers, Inc., Johnstown, N. Y. Filed Dec. 9, 1952.

Bovinette

The mark shown in the drawing consists of the word "Bovinette."
For Leather.
Claims use since Oct. 17, 1952.

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 636,106. Abel & Bach Inc., Milwaukee, Wis. Filed Oct. 3, 1952.

TOTE'N CARRY

For Hand Luggage.
Claims use since on or about Jan. 31, 1952.

Ser. No. 639,493. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

Applicant claims ownership of Registration No. 266,083.
For Bill Folds, Wallets, Pocketbooks, Key Cases, Purses, Brief Cases, Fitted or Traveling Toilet Cases, Portfolios, Overnight Bags, Fitted Hand Baggage, Hand Bags, Beach Bags, Suit Cases, Trunks, Hat Cases, Travelling Bags, and Valises.
Claims use since 1867.

Ser. No. 639,510. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern's

Applicant claims ownership of Registration No. 266,083.
For Bill Folds, Wallets, Pocketbooks, Key Cases, Purses, Brief Cases, Fitted or Traveling Toilet Cases, Portfolios, Overnight Bags, Fitted Hand Baggage, Hand Bags, Beach Bags, Suit Cases, Trunks, Hat Cases, Travelling Bags, and Valises.
Claims use since 1932.

Ser. No. 639,547. Aristocrat Leather Products, Inc., New York, N. Y. Filed Dec. 16, 1952.

Belle-Fold

Exclusive rights to the word "Fold" is hereby disclaimed apart from the mark as shown.
For Wallets, Billfolds, Purses, Pocketbooks, and Combination Purses and Billfolds.
Claims use since Nov. 15, 1947.

Ser. No. 640,498. Champ Products Corporation, Union City, Ind. Filed Jan. 8, 1953.

Champ BULLET BAG

No claim is made to the word "Bag" apart from the mark as shown. Applicant claims ownership of Registration No. 338,176.
For Ladies' Hand Bags and Pocketbooks.
Claims use since May 9, 1952.

Ser. No. 640,980. U. S. Handbag Corporation, New York, N. Y. Filed Jan. 19, 1953.

Shredded Wheat

Apart from the combination "Shredded Wheat" the word "Wheat" is disclaimed.
For Ladies' Handbags of Leather, Imitation Leather, Plastic, Fabric, and Combinations Thereof.
Claims use since Sept. 8, 1952.

## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Ser. No. 618,846. De Goss Laboratories, New York, N. Y. Filed Sept. 15, 1951.

AMOR LUSTRE

Applicant disclaims the word "Lustre" apart from the mark as shown.
For Cleaning and Polishing Compounds Containing Wax, Oil, and Resins or Combinations Thereof—Namely, Combination Cleaning, Polishing, Preservative, and Conditioner Compounds for All Types of Floors and Similar Surfaces.
Claims use since Feb. 19, 1951.

Ser. No. 625,011. Walter Glenn Heltman, Bellevue, Ohio. Filed Feb. 15, 1952.

HELTMAN'S 724

No claim is made to "Heltman's" apart from the mark as shown on the drawing.
For Rust Remover in Powdered Form Having an Abrasive Ingredient.
Claims use since Oct. 17, 1951.



Ser. No. 637,664. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Nov. 5, 1952.

WETORDRY

Applicant claims ownership of Registrations Nos. 167,713 and 404,200.
For Coated Abrasives.
Claims use since at least as early as July 6, 1921.

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 626,353. Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J. Filed Mar. 12, 1952.

T. M. F.

For Ingredient for Rodenticides.
Claims use since Nov. 2, 1951.

Ser. No. 633,074. Residex Corporation, Newark, N. J. Filed July 25, 1952.

VEG-A-PYR

For Insecticides.
Claims use since July 11, 1952.

Ser. No. 634,140. Henri Coutinho, doing business as The Sintus Company, New York, N. Y. Filed Aug. 19, 1952.

REPEL-O-STIK

No claim is made to the word "Stik" apart from the mark shown in the drawing.
For Insect Repellent.
Claims use since June 15, 1951.

Ser. No. 638,024. Southern Oxygen Company, Bladensburg, Md. Filed Dec. 3, 1952.




The representation of the cylinder is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 508,425.
For Oxygen, Hydrogen, Acetylene, Nitrogen, Carbon Dioxide, Propane, Helium, Argon, Compressed Air, Mixtures of Carbon Dioxide and Oxygen, and Mixtures of Helium and Oxygen.
Claims use since Oct. 10, 1952.

Ser. No. 640,522. Marton-Withers Chemical Company, Greensboro, N. C. Filed Jan. 8, 1953.




The drawing is lined for red.
For Plasticizers, Esters, Petroleum Sulphonates, Emulsifiers, Fat Splitting Agents, Petroleum Sulfonates in Combination With Coupling Agents Which Form Soluble Compounds Upon Addition to Mineral Oils, Wetting Agents, Dispersing Agents, and Textile Chemical Auxiliaries.
Claims use since Aug. 28, 1950.

Ser. No. 641,840. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed Feb. 6, 1953.

Elfanol

For Form of Lanolin Chemically Treated To Reduce Its Sensitization Potential.
Claims use since Jan. 25, 1952.

Ser. No. 643,340. King Research, Inc., Brooklyn, N. Y. Filed Mar. 9, 1953.

CLIPPERCIDE

For Disinfectant and Fungicide.
Claims use since Aug. 27, 1951.

Ser. No. 643,574. Van Brode Milling Co., Inc., Clinton, Mass. Filed Mar. 12, 1953.

AIR-ZIT

The exclusive right to the use of the word "Air" is disclaimed apart from the mark as shown in the drawing.
For Household Deodorants.
Claims use since November 1952.

Ser. No. 644,446. S. B. Penick & Company, New York, N. Y. Filed Mar. 30, 1953.

ALLEXCEL

For Allethrin-Synergist Combinations for Use as Insecticides in the Control of Household, Industrial, and Agricultural Pests.
Claims use since about May 16, 1950.

Ser. No. 644,447. S. B. Penick & Company, New York, N. Y. Filed Mar. 30, 1953.

PENDANE

For Insecticidal Formulations Containing Purified Gamma Isomer of Benzene Hexachloride for Use in the Control of Household, Industrial, and Agricultural Pests.
Claims use since about Apr. 8, 1950.

Ser. No. 644,714. Frederic D. Barton, doing business under the fictitious name and style of Bar's Products Supply, Dearborn, Mich. Filed Apr. 6, 1953.

**INSEALATOR**

For Radiator Leak Sealer, Rust Preventative, and Rust Inhibitor for Water Cooling Systems.
Claims use since Dec. 16, 1952.

Ser. No. 644,733. Chapman Chemical Company, Memphis, Tenn. Filed Apr. 6, 1953.

**STABLCHLOR**

For Insecticides, Particularly Adapted for Use in Termite Control and Pest Control.
Claims use since Mar. 3, 1953.

Ser. No. 644,787. Polymer Industries Inc., Astoria, N. Y. Filed Apr. 6, 1953.




The word "Brand" is disclaimed apart from the mark, as shown.
For Printing Gum Comprising a Thickener Used in the Textile Printing Industry; Sizing Compound Used in the Textile Industry and Paper Industry To Give Body or Stiffness to Materials; and Textile and Paper Finishing Compounds.
Claims use since June 14, 1946.

Ser. No. 644,826. Bridgeport Brass Company, Bridgeport, Conn. Filed Apr. 7, 1953.




For Insect Repellent.
Claims use since Feb. 10, 1953.

Ser. No. 644,950. Ansul Chemical Company, Marinette, Wis. Filed Apr. 9, 1953.

**ANSUL**

For Desiccant for Refrigerants.
Claims use since Feb. 20, 1953.

Ser. No. 645,055. The Ontario Paper Company Limited, Township of Thorold, Ontario, Canada. Filed Apr. 10, 1953.

**LIOXIN**

For Mixture of Synthetic Odoriferous or Aromatic Chemicals Derived From Lignosulfonic Acid Materials and of Which the Principal Constituent Is Vanillin.
Claims use since Dec. 9, 1952; and use in commerce between foreign nations and the United States since Dec. 9, 1952.

Ser. No. 645,081. Sterling Drug Inc., New York, N. Y. Filed Apr. 10, 1953.

**SPECTROSOL**

For Textile Dyes.
Claims use since Feb. 9, 1953.

Ser. No. 645,758. The C. B. Dolge Company, Westport, Conn. Filed Apr. 10, 1953.

**NOMOLE**

Applicant claims ownership of Registration No. 298,853.
For Preparation for Exterminating Moles.
Claims use since December 1931.

## CLASS 7

### CORDAGE

Ser. No. 642,011. The Brantford Cordage Company, Limited, Brantford, Canada. Filed Feb. 10, 1953.

**MAPLE LEAF**

For Twine.
Claims use since 1919; and since 1919 in commerce between Canada and the United States.

## CLASS 8

### SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 641,834. Gey Products Corporation, Cambridge, Mass. Filed Feb. 6, 1953.

**INJECTO**

For Cigarette Lighter Fuel Filler.
Claims use since Dec. 10, 1952.

## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 629,272. Advance Process Sopply Co., Chicago, Ill. Filed Apr. 12, 1952.

**ADVANCE**

For Silk Screen Colored Inks—Namely, Lacquer, Enamel, Oil and Water Base Inks; Clear Inks for Imparting Gloss Over Already Printed Inks; Silk Screen Ink Thinners; and Silk Screen Ink Bases for Imparting Such Characteristics to Silk Screen Inks as Hardness, Flexibility, Mar-Resistance, Viscosity, Flatness, and Gloss.
Claims use since Sept. 1, 1949.



## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 608,843. Wayne Metal Moulding Co., Inc., East Detroit, Mich. Filed Jan. 16, 1951.

**WAY-MET**

For Metal Mouldings.
Claims use since Aug. 20, 1950.

Ser. No. 628,969. Otto E. Steizer, German Township, St. Joseph County, Ind. Filed Apr. 30, 1952.

**Sharwal**

For Bath Enclosures in the Nature of a Kit Consisting of Pre-Cut Head and Sill Molding, Jamb Molding, Curtain Track, End Plate With Glasing Tape for Glass Setting, Sill-to-Tub Water Seal, and Corrugated Glass Panel Adapted To Be Mounted in the Molding.
Claims use since Dec. 29, 1951.

Ser. No. 630,543. Minwax Company, Inc., New York, N. Y. Filed May 31, 1952.

**MINWAX**

Applicant claims ownership of Registration No. 238,736.
For Caulking and Filling Compounds for Use in Filling and Sealing Joints Around Window and Door Frames and as a Waterproof Sealer for Any Masonry Joint; Metal Shapes and Caps for Masonry Joints, Composed of a Formed Strip of Metal Installed in Masonry Joints To Create a Water and Weather Resisting Seal Over the Top of Such Joints; Asphalt Saturated and Coated Fabrics Used as Membrane Waterproofing, Above and Below Grade, on Roofs and for Spandrel Dampproofing; and Asphalt Products in Liquid and Solid Form for Waterproofing and Dampproofing Masonry Walls, Foundations, Tunnels, Bridge Decks, and Roofs.
Claims use since March 1904.

Ser. No. 636,500. Season-All Window Corp., New Rochelle, N. Y. Filed Oct. 10, 1952.




The number "4" is lined for red. Applicant disclaims the wording and numeral apart from the mark itself.
For Doors and Windows Sold as Complete Units.
Claims use since May 1, 1952.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 629,993. The Electric Sprayit Company, Sheboygan, Wis. Filed May 21, 1952. (Sec. 2f.)

**SPRAYIT**

Applicant claims ownership of Registration No. 236,705.
For Air Pressure Regulating Valves.
Claims use since May 1, 1932.

Ser. No. 642,559. Keelavite Rotary Pumps & Motors Limited, Allesley, Coventry, England. Filed Feb. 20, 1953.

**KEELAVITE**

For Piston Type Directional Valves; Flow Control, Speed Control, and Pressure Reducing Valves; Non-Return and Relief Valves; All for Use With Hydraulic Power Transmission and Control Systems.
Claims use since February 1935; and use in commerce between foreign nations and the United States since August 1936.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 637,300. Capper Pass & Son Limited, Bristol, England. Filed Oct. 29, 1952.

**PASSALL**

Applicant claims ownership of British Registration No. 445,644, dated Feb. 22, 1924, and United States Registration No. 257,812.
For Unwrought and Partly Wrought Metals Used in Manufacture.

## CLASS 15

### OILS AND GREASES

Ser. No. 637,331. Renuzit Home Products Co., doing business as Royal Windsor Petroleum Company, Philadelphia, Pa. Filed Oct. 29, 1952.

**Royal Windsor**

The word "Windsor" forming part of the requested trade-mark, is disclaimed apart from the mark as shown, reserving, however, applicant's common law rights therein and thereto. Applicant claims ownership of Registration No. 301,509.
For Lubricating Oils.
Claims use since July 5, 1932.

Ser. No. 637,972. Armour and Company, Chicago, Ill. Filed Nov. 12, 1952.

**LUBCOTE**

For Soap Especially Formulated for Wire-Drawing.
Claims use since May 27, 1952.

Ser. No. 638,319. Shell Oil Company, New York, N. Y. Filed Nov. 19, 1952.

**SILVER SHELL**

Applicant claims ownership of Registration No. 301,513.
For Gasoline and Lubricating Oils.
Claims use since Oct. 13, 1932.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 617,653. Duron Paint Manufacturing Company, Washington, D. C. Filed Aug. 14, 1951.

**DURON**

Applicant claims ownership of Registration No. 392,676.
For Ready-Mixed Paint, Varnishes, Wood Stains, Rubber Base Paint, and Paint Enamels.
Claims use since on or about Sept. 1, 1947.

Ser. No. 634,300. Cook & Dunn Paint Corp., Newark, N. J. Filed Aug. 22, 1952. (Sec. 2f.)

"Painting's Fun with COOK & DUNN"

For Paints, Varnish, Stains, and Shellacs.
Claims use since Apr. 1, 1932.

Ser. No. 642,657. Robert Smith-Johannsen, doing business as Smith-Johannsen Wax Co., Niskayuna, N. Y. Filed Feb. 24, 1953.

SKIVOKS Jack Rabbit

Applicant disclaims the word "Skivoks" except in combination with the mark as shown.
For Wax for Skis.
Claims use since Dec. 6, 1950.

## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 643,169. Liggett & Myers Tobacco Company, New York, N. Y. Filed Mar. 5, 1953.

**L & M**

For Cigarettes.
Claims use since February 1953.

## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 584,496. Frank L. Jungerich, St. Louis, Mo. Filed Sept. 6, 1949.

**SIP-EZE**

For Aspirin Tablets.
Claims use since Aug. 3, 1949.

Ser. No. 625,777. The Wander Company, Chicago, Ill. Filed Feb. 29, 1952.

**NELLIN**

For Coronary Vasodilator.
Claims use since Oct. 1, 1951.

Ser. No. 627,848. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed Apr. 9, 1952.

**RAPITAL**

For Hypnotic and Anesthetic Preparations.
Claims use since Jan. 29, 1952.

Ser. No. 628,919. Chemische Werke Albert, Amoneburg, Germany. Filed Apr. 30, 1952.

**Recresal**

Applicant claims ownership of United States Registration No. 163,204.
For Therapeutic Products for the Treatment of Over-Fatigue, Asthenia, Anemia, Nervous Depression, Mental and Physical Exhaustion.
Claims use since May 10, 1920; and use in commerce between foreign nations and the United States since Jan. 1, 1929.

Ser. No. 631,900. Howard John Terwilliger, doing business as H. John Terwilliger Productions, Kingston, N. Y. Filed June 27, 1952.

**Ex Pox**

No claim is made to the word "Pox" apart from the mark as shown on the drawing.
For Veterinary Medicinal Preparation for Treatment of Cow Pox.
Claims use since Sept. 5, 1950.

Ser. No. 632,181. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed July 5, 1952.

**NOCTEC**

For Sedative and Hypnotic Preparation.
Claims use since May 28, 1952.



Ser. No. 633,719. Dickman & Wyrsch, Cupertino, Calif. Filed Aug. 11, 1952.

DW

The term "The Dairymen's Friend" is disclaimed apart from the mark as shown.
For Medicine for Treating the Genitals of Animals.
Claims use since June 16, 1949.

Ser. No. 633,898. The Wander Company, Chicago, Ill. Filed Aug. 12, 1952.

**DORESTRON**

For Estrogen Preparation.
Claims use since July 25, 1952.

Ser. No. 636,113. John J. Briggs, doing business as Briggs' Laboratory Products Company, Indianapolis, Ind. Filed Oct. 3, 1952. (Sec. 2f.)

**FLUCAPS**

For Pharmaceutical Preparation Useful in the Treatment of Colds, La Grippe, Chills, and Rheumatism.
Claims use since 1934.

Ser. No. 636,320. Wernet Dental Mfg. Co., Inc., doing business as Hudson Products, Jersey City, N. J. Filed Oct. 7, 1952.

**TRISILIUM**

For Magnesium Trisilicate for Use as an Antacid.
Claims use since Sept. 26, 1952.

Ser. No. 637,594. International Minerals & Chemical Corporation, Chicago, Ill. Filed Nov. 4, 1952.

**20/FOS**

For Defluorinated Phosphate for Use as Plant and Animal Food Supplements.
Claims use since Sept. 4, 1952.

Ser. No. 637,971. Wyeth Incorporated, Philadelphia, Pa., assignor to American Home Products Corporation, New York, N. Y., a corporation of Delaware. Filed Nov. 12, 1952.

**PENADUR**

For Dibenxylethylenediamine Dipenicillin for Penicillin Therapy.
Claims use since Oct. 29, 1952.

Ser. No. 638,238. Benya Drug Company, Wernersville, Pa. Filed Nov. 18, 1952.

**GERICIN**

For Vitamin and Mineral Food Supplement Preparation for Older People and Convalescents.
Claims use since Nov. 10, 1952.

Ser. No. 638,387. American Cyanamid Company, New York, N. Y. Filed Nov. 21, 1952.

**GEVRINE**

Applicant claims ownership of Registration No. 564,695.
For Geriatric-Mineral Supplement With Hormones.
Claims use since Oct. 29, 1952.

Ser. No. 639,006. Armour and Company, Chicago, Ill. Filed Dec. 5, 1952.

**MONOCOTE**

For Quaternary Ammonium Compositions Used for the Treatment of Stainless Steel Needles To Inhibit the Clotting of Blood During Blood Collections and Transfusions.
Claims use since Aug. 25, 1952.

## CLASS 19

### VEHICLES

Ser. No. 487,343. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania. Original filed, act of 1905, Aug. 20, 1945; amended to application under act of 1946, Principal Register, June 23, 1949. (Sec. 2f as to the word "Jeep.")

**JEEP WAGON**

No claim is made to the word "Wagon" apart from the mark as shown. Applicant claims ownership of Registration No. 526,175.
For Automotive Vehicles and Structural Parts Thereof.
Claims use since July 30, 1945, as shown; and since about Nov. 20, 1940, as to the word "Jeep."

Ser. No. 599,018. The Raleigh Cycle Co. Limited, Nottingham, England. Filed June 13, 1950. (Sec. 2f.)

**RALEIGH**

Applicant claims ownership of British Registrations Nos. 448,983, 583,997, 583,998, and 601,115; and United States Registration No. 223,090.
For Bicycles, Motor-Bicycles, Tricycles for Adults, and Their Parts.
Claims use since at least as early as 1892; and since at least as early as 1892 in commerce among the several States and between foreign nations and the United States.

Ser. No. 599,435. The Huffman Manufacturing Company, Dayton, Ohio. Filed June 20, 1950.

**FITS-**
***sooner***

For Bicycle Frames.
Claims use since Mar. 17, 1950.

Ser. No. 624,716. Fichtel & Sachs Aktiengesellschaft, Schweinfurt am Main (West), Germany. Filed Aug. 8, 1951.

**F&S.**

Applicant claims ownership of German Registration No. 53,709, dated Dec. 24, 1901; and United States Registrations Nos. 74,185, 77,886, and 79,372.

For Bicycles; Motorcycles; Motor-Bicycles; Motor Vehicles (Automobiles); Wheel Hubs; Freewheel Hubs; Brake Hubs; Hubs With Transmission Ratios for Bicycles; Brakes for Foot, Hand, or Power Actuation for Motorized Vehicles; Brakes for Bicycles; Axles and Axles in Bearing Boxes for Motorized Vehicles; Shock Absorbers; Handle-Bars and Front Forks for Bicycles and Motorcycles; Steering Gear for Motorized Vehicles; and Replacement Parts of the Foregoing Goods.

Ser. No. 629,875. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania. Filed May 17, 1952.

**DEER FLY**

For Automobiles and Structural Parts Thereof.
Claims use since Mar. 7, 1952.

Ser. No. 638,811. Rose-Derry Company, Newton, Mass. Filed Dec. 1, 1952.

**Standee**

For Infants' Portable Seats for Use in Automobiles.
Claims use since Sept. 8, 1952.

Ser. No. 640,091. Innocenti Soc. Generale per l'Industria Metallurgica e Meccanica, Milan, Italy. Filed Dec. 13, 1952.




Applicant disclaims the surname "Innocenti" apart from the mark as shown. Applicant claims ownership of Italian Registration No. 108,354, dated July 25, 1952.

For Automobiles, Motor Cycles, Motor Scooters, Bicycles, and Parts Thereof.

Ser. No. 644,516. Rayco Mfg. Co., Paterson, N. J. Filed Mar. 31, 1953.

**ORISAN**

For Automobile Seat Covers.
Claims use since Jan. 2, 1953.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 597,246. The Workshop Associates, Incorporated, Needham Heights, Mass., now by change of name The G. G. G. Corporation, assignor to The Gabriel Company, Cleveland, Ohio, a corporation of Ohio. Filed May 10, 1950.

**WORKSHOP**

For Antennas for Mobile and Fixed Transmitting and Receiving Stations Including Frequency-Modulation, Amplitude-Modulation, and Pulse-Communication Installations as for Use in Radio, Television, and Facsimile Broadcasting and/or Reception, Point-to-Point Relay Communication, Microwave Propagation and/or Reception, Radio Beacon Systems and Radar Systems, and Brackets and Mounts Incorporated With the Antennas; Coaxial and Wave-Guide Transmission Lines and Impedance Adapters, Matching Transformers, Connectors, Switches, Jacks, and Fittings Therefor; and Plastic Radome Coverings Incorporated With Certain Radiating or Receiving Parts of the Antennas.
Claims use since December 1945.

Ser. No. 607,543. Federal Tool Engineering, Inc., Newark, N. J. Filed Dec. 11, 1950.

**TWEEZER-WELD**

No claim is made to the word "Weld" apart from the mark shown in the drawing.
For Condenser Power Units, and Electric Welding Apparatus.
Claims use since Oct. 26, 1950.

Ser. No. 632,432. Kirkwood Industries, Inc., Los Angeles, Calif. Filed July 11, 1952. (Sec. 2f.)

**Kirkwood**

For Electric Lighting Fixtures—Namely, Floor Lamps, Table Lamps, Floor Lamp Shades, Table Lamp Shades, Floor Lamp Bases, and Table Lamp Bases.
Claims use since March 1946.

Ser. No. 635,205. Varian Associates, Palo Alto, Calif. Filed Sept. 12, 1952.




For Thermionic Tubes and Tube Circuits Other Than Measuring and Testing Circuits, Including Klystron Tubes and Klystron Tube Circuits Serving as Oscillators, Amplifiers, Multipliers, Variable Impedances, Modulators, Mixers, and Detectors; and Traveling Wave Tubes and Tube Circuits.
Claims use since Sept. 15, 1951.



## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 597,451. The Military Service Company, Birmingham, Ala. Filed May 15, 1950.

**Vulcan**

For Baseballs, Basketballs, Bats, Softballs, Volley-Balls, Golf Balls, Football Helmets, Golf Bags, Cue Balls, Chalk for Pool Cue Sticks, Cue Sticks, Pool Ball Racking Triangles, Racks for Cues, and Cue Ball Racks.
Claims use since February 1950.

Ser. No. 631,067. Norman H. Sanger, Columbus, Ohio. Filed June 11, 1952.

**SUSPENSE**

For Pin Ball Game.
Claims use since May 19, 1952.

Ser. No. 631,650. Irving Brambler, doing business as Ed-U-Cards, New York, N. Y. Filed June 24, 1952.

**SPACE RACE**

For Educational Card Game.
Claims use since June 5, 1952.

Ser. No. 632,378. Kurland Enterprises, Inc., Leonia, N. J. Filed July 10, 1952.




Applicant disclaims the phrase "Puzzle Game" apart from the mark as shown.
For Scoreboard Game Played With Movable Pieces.
Claims use since May 8, 1952.

Ser. No. 634,472. K. B. Doll Corporation, New York, N. Y. Filed Aug. 26, 1952.

**Barbara Jo**

For Dolls.
Claims use since Mar. 15, 1951.

Ser. No. 634,995. Elizabeth S. Scanlan, doing business as Aeroplane Spinner Manufacturing Co., Denver, Colo. Filed Sept. 8, 1952.

**AERO LURES**

The word "Lures" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 325,738.
For Artificial Fish Lures.
Claims use since on or about July 1, 1949.

Ser. No. 635,062. Selchow & Righter Company, New York, N. Y. Filed Sept. 9, 1952.

**GLOBE-TROTTERS**

For Board Game Employing Cards and Playing Pieces.
Claims use since Sept. 22, 1950.

Ser. No. 635,359. H. G. Finch, Rocky Mount, N. C. Filed Sept. 17, 1952.

**'ROUGH-HOUSE'**

For Marble Games.
Claims use since Sept. 2, 1950.

Ser. No. 643,325. Hurricane Manufacturing Company, Miami, Fla. Filed Mar. 9, 1953.

**Hurricane**

For Fishing Tackle—Namely, Fishing Rods, Fishing Reels, Fishing Lines, Leader Material, Fishing Lures, Under Water Spear Guns, Swim Fins, and Fishing Tackle Boxes.
Claims use since Nov. 12, 1951.

Ser. No. 643,593. Jaymar Specialty Company, Brooklyn, N. Y. Filed Mar. 13, 1953.

**Captain Space**

For Jigsaw Puzzle Game.
Claims use since Dec. 12, 1952.

Ser. No. 644,026. Frederick R. Freeman, doing business as Freeman Publishing Co., Kansas City, Mo. Filed Mar. 23, 1953.

**$uccess**

For Educational Game Based Upon a Fictitious Business Having Competitors and Including Charts To Be Filled In by the Players and Designed To Train and Develop Business Judgment and Ability.
Claims use since Mar. 2, 1953.

Ser. No. 645,442. Elmer Otis Thompson, Jr., doing business as Thompson's Fishing Tackle Co., Knoxville, Tenn. Filed Apr. 16, 1953.

Doll Fly

No claim is made herein to the word "Fly" apart from the mark as shown.
For Artificial Lures.
Claims use since Jan. 9, 1952.

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Ser. No. 646,059. The Enterprise Manufacturing Company, Akron, Ohio. Filed Apr. 28, 1953. (Sec. 2f.)

FLOAT-RITE

Applicant claims ownership of Registration No. 304,423.
For Artificial Bait—Namely, Bass and Trout Bugs.
Claims use since on or about May 13, 1932.

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Ser. No. 646,261. Milton Bradley Company, Springfield, Mass. Filed May 1, 1953.

INTRIGUE

For Board Game Played With Movable Pieces.
Claims use since Dec. 9, 1952.

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## CLASS 23

## CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 582,404. Cadillac Stamp Company, Inc., Detroit, Mich. Filed June 30, 1949. (Sec. 2f.)




Applicant claims ownership of Registration No. 242,771.
For Steel Stamps, Embossing and Marking Dies, Power and Hand Marking Machines.
Claims use since early in 1922.

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Ser. No. 601,642. David Round & Son, Cleveland, Ohio. Filed Aug. 2, 1950.




The term "Hoists & Cranes" is disclaimed apart from the mark as shown. David Round is the name of the founder of the firm of David Round & Son, and is deceased.
For Trolleys—Namely, Overhead, Monorail, and I-Beam; Cranes—Namely, Portable, Gantry, Travelling, Jib, Derrick, and Stationary; Winches—Namely, Drum, Wall, Derrick, and Inclined; Hoists—Namely, Chain, Cable, Trolley, Torpedo, Twin-Hook, Extended Handwheel, and Differential; and Parts of the Foregoing.
Claims use since July 18, 1950.

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Ser. No. 622,022. Leon Jolson, doing business under the name of Jolson Sewing Machine Co., New York, N. Y. Filed Dec. 3, 1951.

MIRACLE

For Sewing Machines, Sewing Machine Parts, Sewing Machine Supplies—Namely, Quilters, Tuckers, Rufflers, Binders, Hemmers, Shirring Feet, Edge Stitchers, Cording and Zipper Feet, Scissors, Multiple Slotted Binders, Darning Feet, Cloth Guides, Bobbins, Bobbin Cases, Zig Zag Attachments, Comprising Devices for Oscillating the Material Being Sewed, Buttonhole Sets, Blindstitch Attachments, Needle Plates, Zig-Zag Stitch Cording Feet, Zig-Zag Stitch Hinged Feet, Button-Sewing Feet, Straight Stitch Hinged Feet, Buttonhole Feet, Darning Feet, Cloth Stitching Guides, Knives, Screw Drivers, Presser Feet, Master Attachment Feet, Sewing Machine Needles, and Sewing Machine Attachments.
Claims use since Oct. 18, 1951.

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Ser. No. 623,553. Robert Morton Meltzer, doing business under the name and style of Ibroc Wood Products Co., Auburn, Maine. Filed Jan. 14, 1952.

MINI-BLOCK

The word "Block" is disclaimed apart from the mark as shown.
For Household Butcher Block.
Claims use since Oct. 10, 1951.

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Ser. No. 627,154. Wales-Strippit Corporation, North Tonawanda, N. Y. Filed Mar. 27, 1952. (Sec. 2f.)




For Sheet Metal Punching, Notching, and Nibbling Machinery, and for Drive Clutches, Particularly Drive Clutches for Sheet Metal Punching, Notching, and Nibbling Machines.
Claims use since Mar. 21, 1947.

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Ser. No. 635,525. Decatur Pump Company, Decatur, Ill. Filed Sept. 20, 1952.




For Water Pumps and Parts Thereof.
Claims use since Apr. 25, 1952.



Ser. No. 636,063. Decatur Pump Company, Decatur, Ill. Filed Oct. 2, 1952. (Sec. 2f.)

BURKS SUPER-TURBINE

No registration rights are claimed for the word "Turbine" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 537,530.
For Water Pumps and Water Pumping Units Which Include a Pump Support, Pump, Motor, Storage Tank, Control Switch, Strainer, and Parts Thereof.
Claims use since Mar. 1, 1927, as to the mark shown; and since in the year 1924 as to the words "Super-Turbine."

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Ser. No. 641,225. John Waldron Corporation, Highland Park, N. J. Filed Jan. 23, 1953. (Sec. 2f.)

WALDRON

Applicant claims ownership of Registration No. 322,359.
For Printing Machines of the Surface, Intaglio Gravure, Flat Block, Aniline, and Offset Type; Paper and Textile Converting Machinery—Namely, Machines for Coating Webs of Paper, Fibre Board, and Textile Materials With Starch, Clay Color, Wax, Rubber, Water Dispersions, Plastics, and the Like; Paper Breakers; Gumming Machines; Laminators; Creping Machines; Embossing Machines and Parts Thereof, Plastic Film Casting Machines; Automatic Web Guiders; Web Festponing Machines; Flocking Machines; Sand Paper Machines; Brush Polishers; Web Slitters; Web Rewinders; Varnishing Machines, Winding Machines; Gear Type Mechanical Couplings; and Mechanical Overload Cut-Outs.
Claims use since 1827 as to "Waldron"; and since March 1951 as shown.

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Ser. No. 641,859. Pennsylvania Crusher Company, Philadelphia, Pa. Filed Feb. 6, 1953. (Sec. 2f.)

REVERSIBLE PENNSYLVANIA

No claim is made to the word "Reversible" or to the outline representation of the nameplate apart from the mark as shown. Applicant claims ownership of Registrations Nos. 505,562 and 163,665.
For Stationary Centerfeed Crusher Having Swing Hammers Rotatable in Both Directions for Comminuting Coal, Stone, and the Like.
Claims use since 1937.

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Ser. No. 642,181. The Todd Company, Inc., Rochester, N. Y. Filed Feb. 12, 1953.

PROTECTOGRAPH

Applicant claims ownership of Registration No. 92,147.
For Check Printing Machines.
Claims use since Apr. 18, 1900; and since June 8, 1937, as to the mark in the style shown.

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Ser. No. 642,642. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Feb. 24, 1953.

RANGER

For Fire Pumps.
Claims use since June 1, 1932.

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Ser. No. 642,761. The Moto-Mower Company, Detroit, Mich. Filed Feb. 25, 1953.

COMMANDER

For Lawnmowers.
Claims use since on or about Oct. 1, 1938.

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Ser. No. 642,875. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 27, 1953.

Fedway Saber

For Outboard Motors.
Claims use since Feb. 2, 1953.

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## CLASS 25

## LOCKS AND SAFES

Ser. No. 622,423. Aug. Stenman Aktiebolag, Eskilstuna, Sweden. Filed Dec. 13, 1951.




Applicant claims ownership of Registrations Nos. 533,235 and 535,425.
For Door Locksets Including Necessary Handles and Escutcheons.
Claims use since September 1944; and use in commerce between the United States and Sweden since February 1950.

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Ser. No. 628,570. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For Locks and Keys.
Claims use since 1870.

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Ser. No. 636,569. Long Manufacturing Co. Inc., Petersburg, Va. Filed Oct. 13, 1952. (Sec. 2f.)

LONG LOCK

Applicant hereby disclaims "Lock" apart from the mark as shown.
For Locks, Latches, and Locking Attachments Therefor, and Keys Therefor, Particularly for Use With Trunks, Suitcases, and Luggage Generally.
Claims use since Dec. 15, 1944.

## CLASS 26

## MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 553,842. General Controls Co., Glendale, Calif. Filed Apr. 5, 1948.

For Voltmeters; Thermostats With Electrical Contacts for Controlling Temperature in a Space; Thermostats of the Above Character With Timers To Predetermine the Time When Thermostatic Controls Become Active; Thermostats for Use With Hot Water Heaters for Controlling the Temperature of the Hot Water; Timer Apparatus With Contacts for Controlling the Periods When Such Thermostats Can Be Effective; Time Switches; Temperature Control Systems for Space and Water Heaters—Namely, Electrically Operated Fuel Valves, and Thermostats With Contacts That Energize and Deenergize Said Valves; Thermocouple and Thermopile Controlled Safety Systems for Gas and Oil Burners—Namely, Thermocouples or Thermopiles, and Shut-Off Valves Controlled Thereby, for Causing Said Shut-Off Valves To Close; Temperature Limiting Control Systems—Namely, Electrically Operated Valves, and Thermostatically Operated Switches for Limiting the Temperature Attained in a Space, or in a Liquid in a Tank, or for Cooking Apparatus, by Controlling Said Electrically Operated Valves for the Control of Fuel; Thermostatically Controlled Fuel Valves for Either Liquid or Gas Fuels; Thermostatic Fuel Valves; Thermoelectrically Operated Expansion Valves; Thermocouple and Thermopile Generators for Supplying Power for Operating Gas Burner Safety Systems for Space Heaters and Water Systems, and for Operating Oil Burner Safety Systems; and Thermally Operated Expansion Valves.
Claims use since June 1931.

Ser. No. 581,964. Les Appareils de Précision Kinoptik S. A., Paris, France. Filed July 14, 1949.

KINOPTIK

Applicant claims ownership of French Registration No. 392,673, dated Mar. 16, 1949.
For Scientific, Optical, Photographic, and Cinematographic Apparatus, and Parts of All the Aforementioned Apparatus—Namely, Motion Picture Cameras and Projectors; Aerial Photographic Cameras; Objective Lenses; Focusing Glasses; View Finders; Microfilm Cameras, Viewers, Enlargers, and Objectives; Enlarging Objectives; Magnifying Glasses; Reading Glasses; and Objectives, Lenses, and Prisms for Use in the Recording and Reproducing of Sound.
Claims use since Oct. 1, 1933, in France; and since July 1, 1945, in commerce between foreign nations and the United States.

Ser. No. 588,495. King-Seeley Corporation, Ann Arbor, Mich. Filed Nov. 29, 1949.

TELEGAGE

Applicant claims ownership of Registrations Nos. 212,643 and 212,685.
For Ammeters, Oil Pressure Gauges, Liquid Level Gauges, and Temperature Indicators for Indicating the Temperature of the Engine Coolant of Internal Combustion Engines.
Claims use since Mar. 1, 1925.

Ser. No. 594,870. Telecomputing Corporation, Burbank, Calif. Filed Mar. 29, 1950.

TELEPLOTTER

For Electronically Operated Plotting Apparatus for Transferring Data From IBM Cards and Other Digital Sources To Coordinate Paper in the Form of Discrete Plotted Points on an Orthogonal Coordinate System.
Claims use since Aug. 29, 1949.

Ser. No. 605,306. David W. Hendry, doing business under the fictitious name and style of Absentee Automatic Water Control Company, Stockton, Calif. Filed Oct. 23, 1950.

"WAT-R-MATIC"

No claim is made to the exclusive use of the expression "Wat-R" apart from the mark as shown.
For Electric Time Switch Units Adapted To Be Connected With and Operate Valves in Irrigation Pipes.
Claims use since on or about May 1, 1950.

Ser. No. 615,712. The Kalart Company Inc., Plainville, Conn. Filed June 26, 1951.

PROJECTO-EDITOR

The component "Editor" of the mark is disclaimed apart from the mark for registration purposes only, all common law rights being reserved.
For Film Splicers, Film Winders for Use in Connection With Film Editors and Film Splicers, and Carrying Cases Specifically Designed To Carry Film Editors.
Claims use since August 1947.

Ser. No. 618,737. Isrnel Frohlich, doing business as Globe Optical Co., New York, N. Y. Filed Sept. 13, 1951.

*Tropi-Cool*

For Sun Glasses and Parts Thereof.
Claims use since July 2, 1950.

Ser. No. 620,084. Austin B. Belgard, Chicago, Ill. Filed Oct. 17, 1951.

C/2 Select

No claim is made to the term "C/2" apart from the mark as shown.
For Lenses and Frames Insertable Within the Lens Rims of an Eyeglass Frame for Supporting Lenses Temporarily Upon Eyeglass Frames.
Claims use since June 18, 1951.



Ser. No. 623,574. Ernst Leitz, G. m. b. H., Wetzlar, Germany. Filed Oct. 20, 1951.

Perflektometer

Applicant claims ownership of German Registration No. 615,754, Jan. 21, 1952.
For Measuring Microscopes, Comparison Microscopes, Toolmakers' Microscopes, Optical Spotting Spindles, Tollmeters, Projectometers, Optical Comparators, Optical Dividing Heads, Optical Projectors, Micro Hardness Testers, Contour Measuring Projectors, Surface Measuring Instruments, Micrometers, Optical Thickness Testers, and Optical Gauging Devices.

Ser. No. 624,114. Victory Optical Manufacturing Co., Newark, N. J. Filed Jan. 25, 1952.

V-RIM

The word "Rim" is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 502,481 and 537,842.
For Spectacle Frames.
Claims use since Jan. 16, 1952.

Ser. No. 624,740. Gernetebau-Anstalt, Balzers, Liechtenstein. Filed Feb. 9, 1952.

BAB

For Optical Mirrors, Light Filters, Interference Filters for Filtering Out Spectral Ranges Including Ultra-Violet and Ultra-Red Light Ranges, and Anti-Glare Glasses.
Claims use since February 1948 in Switzerland; and since December 1949 in commerce between Switzerland and the United States.

Ser. No. 625,784. Bausch & Lomb Optical Company, Rochester, N. Y. Filed Mar. 1, 1952.

ALTIMAR

For Objective Lenses.
Claims use since Apr. 7, 1945.

Ser. No. 625,974. Delta Optical Co., Inc., New York, N. Y. Filed Mar. 5, 1952.

RAINBOW

For Lenses, Spectacles, and Sun Glasses.
Claims use since November 1951.

Ser. No. 626,506. Fuji Photo Optical Co., Ltd., Omiya-shi, Saitama Prefecture, Japan. Filed Mar. 15, 1952.

*Meibo*

For Binoculars.
Claims use since July 15, 1947, in Japan; and since Sept. 1, 1948, in commerce between Japan and the United States.

Ser. No. 630,664. Case Safety Products, Inc., Cleveland, Ohio. Filed June 3, 1952.

C-

For Safety Goggle Lenses and Safety Glass Lenses.
Claims use since Nov. 1, 1951.

Ser. No. 630,751. Bausch & Lomb Optical Company, Rochester, N. Y. Filed June 5, 1952.

B&L

Applicant claims ownership of Registration No. 260,865.
For Spectacle Cases Not Made of Precious Metal.
Claims use since July 1946.

Ser. No. 630,998. Arnold B. Ellison, doing business under the trade name and style of Device Development Company, New York, N. Y. Filed June 10, 1952.

DEVCO

For Slide Rules Combined With Writing Implements.
Claims use since Dec. 28, 1951.

Ser. No. 631,854. Engineering Manufacturing Company, Sheboygan, Wis. Filed June 27, 1952.

MAYLINE

For Drafting Room Equipment—Namely, Drafting Boards, Drafting Tables, Drafting Tool Drawers, Drafting Table Stools, Drafting Table Benches, Roll Paper Dispensers for Drafting Paper, Parallel Ruling Attachments and Parts Thereof, Straight Edges, T-Squares, Graduated Scales, Triangles, Parallel Rulers, and Protractors.
Claims use since on or about Mar. 1, 1950.

Ser. No. 632,101. Radiant Manufacturing Corporation, Chicago, Ill. Filed July 2, 1952.

TRANS-FLECT

The lining shown in the cross-hatched area is for the purpose of indicating shading only.
For Translucent to Transparent Fabrics Cut to Size for Use in the Manufacture of Picture Projection Screens of the Rear Projection Type.
Claims use since on or about June 4, 1952.

Ser. No. 632,191. Zylite Products Co. Inc., New York, N. Y. Filed July 3, 1952.

FLATTERY

For Eyeglass Frames.
Claims use since July 1, 1952.

Ser. No. 632,629. George Scherr Co., New York, N. Y. Filed July 16, 1952.

**LUSTRO-CHROME**

Applicant disclaims the word "Chrome" apart from the mark as shown.
For Calipers and Micrometers.
Claims use since January 1951.

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Ser. No. 632,833. Duroloid Optical Company, Providence, R. I. Filed July 21, 1952.

*Duroloid*

For Optical Frames.
Claims use since May 27, 1952.

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Ser. No. 637,086. The Reflectone Corporation, Stamford, Conn. Filed Oct. 23, 1952.

**TRC**

For Target Course Generators for Simulating Moving Radar Targets, Vector Component Integrators, Analog Computing Devices and Parts Thereof, Resolvers, and Integrators.
Claims use since May 19, 1952.

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Ser. No. 641,715. Daniel J. Capozzi, doing business under the name of Danvin Associates, New York, N. Y. Filed Feb. 4, 1953.

**SPEKTICOOL**

For Sun-Glasses.
Claims use since Jan. 7, 1953.

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Ser. No. 641,950. The New Way Pattern Company, Inc., New York, N. Y. Filed Feb. 9, 1953.

**NEW WAY**

For Dress Patterns.
Claims use since 1942.

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Ser. No. 642,478. Keuffel & Esser Company, Hoboken, N. J. Filed Feb. 19, 1953.

**ONYX**

For Sensitized Photographic Papers and Cloths To Make Reproductions of Documents and Engineering Drawings, Including Those Sensitized With Diazo Compounds Which Can Be Developed by the Semi-Wet Process.
Claims use since July 1952.

Ser. No. 642,480. Leeds and Northrup Company, Philadelphia, Pa. Filed Feb. 19, 1953. (Sec. 2f.)

**ELECTRO-CHEMOGRAPH**

Applicant claims ownership of Registration No. 568,485.
For Electrical Analyzing Apparatus for Polarographic Analysis—Namely, Determination of Characteristics of Electrolytic or Other Solutions, or for Qualitative and/or Quantitative Electrochemical or Electrolytic Analyses of Liquids or Solutions and for Graphically Plotting or Recording the Involved Magnitudes of Current and Potential and Their Relations Underlying Such Aforesaid Determination or Analyses.
Claims use since August 1939.

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## CLASS 28

### JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 631,709. William Adams Limited, Birmingham, England. Filed June 25, 1952.




For Waiters, Entree Dishes, Teasets, Trays, Hot Water Jugs, Coffee Pots, Slop Basins, Kettles, Mustard Pots, Salt Cellars, Pepper Pots, Sugar Dredgers, Tea Caddies, Vases, Cups, Bowls, Sweet Dishes, Nut Dishes, Cake Baskets, Cake Stands, Breakfast Dishes, Soup Tureens, Sauce Boats, Asparagus Dishes, Vegetable Dishes, Muffin Dishes, Siphon Stands, Chop Dishes, and Hash Dishes, Made of Silver Plate on Brass, Copper, and the Alloy Nickel-Silver, and of Silver.
Claims use since Dec. 1, 1899; and use in commerce between foreign nations and the United States since Dec. 1, 1899.

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Ser. No. 632,197. Belenky Bros., Inc., New York, N. Y. Filed July 7, 1952.



For Bracelets, Necklaces, Chokers, Brooches, Bar Pins, Earrings, Watch Bands, Diamonds and Precious Stones, Finger Rings, Chains for Personal Adornment, Religious Jewelry—Namely, Crosses, Crucifix Crosses, Miraculous Medals, Rosaries, Stars of David, and Mezuzahs; and for the Following Items Made Wholly or Partly of Precious Metal—Namely, Cuff Links, Collar Bars, Necktie Clasps, Belt Buckles, Money Clasps, Comb and Brush Sets, Hand Mirrors, Napkin Rings, Napkin Clips, Beverage Sippers, Corn Holders, Salt and Pepper Shakers, Tea Infusers, Loaf Sugar Racks, Sugar Tongs, Coasters and Coaster Sets, Condiment Sets, Trophy Cups, Picture Frames, Table Cutlery, Flatware, Plates, Jars, Bowls, Cups, and Trays.
Claims use since May 1, 1950.



## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 607,492. E-Z Paintr Corporation, Butler, Wis., assignor to E Z Paintr Corporation, Milwaukee, Wis., a corporation of Delaware. Filed Dec. 9, 1950. (Sec. 2f.)

*EZ Paintr*

Applicant claims ownership of Registration No. 435,352.
For Paint Rollers and Paint Roller Covers.
Claims use since July 1945.

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Ser. No. 642,352. Hindes Limited, Birmingham, England. Filed Feb. 17, 1953. (Sec. 2f.)

*Hindes*

For Hair Brushes, Clothes Brushes, Dog Brushes, and Body Brushes.
Claims use since 1850 in Great Britain; and use in commerce between Great Britain and the United States since January 1905.

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## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 613,711. Hudson Engineering Corporation, Houston, Tex. Filed May 10, 1951. (Sec. 2f as to "Hudson.")




The words "Top Performance" are disclaimed apart from the mark as shown.
For Water Cooling Towers, Including Both Forced and Natural Draft, Atmospheric Sections Which Include a Tube Bundle Employed To Cool a Fluid by Indirect Heat Exchange With Water, and Air-Cooled Heat Exchangers Designed To Cool a Fluid by Indirect Heat Exchange With Air.
Claims use since Aug. 1, 1950.

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## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 631,944. No-Sag Spring Company, Detroit and Warren Township, Mich. Filed June 28, 1952.

**permalastic**

For Spring Assembly for Upholstered Furniture, Mattresses, and Box Springs Having Coating Material Thereon.
Claims use since Dec. 12, 1951.

Ser. No. 631,945. No-Sag Spring Company, Detroit and Warren Township, Mich. Filed June 28, 1952.

**kendakoil**

For Spring Assembly for Upholstered Furniture, Mattresses, and Box Springs Having Coated Material Thereon.
Claims use since Nov. 9, 1951.

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Ser. No. 633,881. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 13, 1952.

**Smooth Rest**

Applicant claims ownership of Registration No. 346,087.
For Mattresses.
Claims use since June 15, 1936.

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Ser. No. 634,273. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 21, 1952.

**Coilux**

For Mattresses.
Claims use since Aug. 10, 1940.

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Ser. No. 634,275. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 21, 1952.

**Perfect Sleeper**

Applicant disclaims the word "Perfect" apart from the mark as shown. Applicant claims ownership of Registration No. 268,994.
For Mattresses.
Claims use since on or about Dec. 1, 1931.

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Ser. No. 634,276. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 21, 1952.

**Smoothie**

For Mattresses.
Claims use since on or about July 10, 1934.

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Ser. No. 640,145. Charak Furniture Company, Boston, Mass. Filed Dec. 30, 1952.

**TIPLEAF**

For Extension Tables.
Claims use since Nov. 1, 1952.

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Ser. No. 640,519. Marshall Field & Company, Chicago, Ill. Filed Jan. 8, 1953.

**FIELDFOAM**

Applicant claims ownership of Registrations Nos. 392,887 and 523,950.
For Pillows, Mattresses, and Box Springs.
Claims use since Nov. 24, 1951.

Ser. No. 640,602. Breneman-Hartshorn Inc., Cincinnati, Ohio. Filed Jan. 12, 1953.

ONEIDA

For Window Shades.
Claims use since 1950.

Ser. No. 640,604. Breneman-Hartshorn Inc., Cincinnati, Ohio. Filed Jan. 12, 1953.

PONTIAC

For Window Shades.
Claims use since 1916.

Ser. No. 640,723. Breneman-Hartshorn Inc., Cincinnati, Ohio. Filed Jan. 14, 1953. (Sec. 2f.)

OSWEGO

For Window Shade Rollers.
Claims use since 1923.

## CLASS 33

### GLASSWARE

Ser. No. 636,536. Pitman-Dreitzer & Co. Inc., New York, N. Y. Filed Oct. 11, 1952.

SNAK-STAK

For Multiple Glass Jar.
Claims use since Sept. 22, 1952.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 569,052. H. R. Clawson, doing business as Bridge, Beach & Co., San Francisco, Calif. Filed Nov. 19, 1948. (Sec. 2f.)

SUPERIOR

For Gas Ranges, Gas Space Heaters, Coal or Wood Ranges, Coal or Wood Space Heaters, and Oil Ranges.
Claims use since Mar. 31, 1938.

Ser. No. 619,493. The Air Preheater Corporation, Wellsville, N. Y. Filed Oct. 2, 1951.

APCO

For Heat Exchange Apparatus Particularly for the Transfer of Heat Between Confined Fluids, Such as Gas and Air.
Claims use since Aug. 23, 1951.

Ser. No. 638,112. Valley Welding & Boiler Company, Bay City, Mich., assignor to Calcinator Corporation, Bay City, Mich., a corporation of Michigan. Filed Nov. 14, 1952. (Sec. 2f as to "Calcinator.")

Calcinator

Applicant claims ownership of Registration No. 421,923.
For Refuse Incinerators.
Claims use since Apr. 7, 1948, as shown; and since July 25, 1939, as to "Calcinator."

Ser. No. 638,390. Atlanta Stove Works, Inc., Atlanta, Ga. Filed Nov. 21, 1952.

CUE-CART

No claim is made to the word "Cart" apart from the mark as shown.
For Portable Grill Made of Metal.
Claims use since May 15, 1952.

Ser. No. 638,757. Delanium Carbon Corporation, New York, N. Y. Filed Nov. 29, 1952.

"Delanium"

Applicant claims ownership of Registrations Nos. 621,051 and 620,087.
For Heat Exchangers Fabricated From Carbon or Graphite Blocks Which Are Perforated by Rows of Parallel Holes or From Assembled Slabs of Carbon and Graphite Containing Carbon and Graphite Packing Elements of Diverse Shape.
Claims use since Oct. 22, 1951.

Ser. No. 638,758. Delanium Carbon Corporation, New York, N. Y. Filed Nov. 29, 1952.

"Delanium"

Applicant claims ownership of Registrations Nos. 621,051 and 620,087.
For Heat Exchangers Fabricated From Carbon or Graphite Blocks Which Are Perforated by Rows of Parallel Holes or From Assembled Slabs of Carbon and Graphite Containing Carbon and Graphite Packing Elements of Diverse Shape.
Claims use since Oct. 22, 1951.

Ser. No. 642,769. Pennsylvania Range Boiler Co., Philadelphia, Pa. Filed Feb. 25, 1953.

Vitraglas

For Domestic Water Heaters.
Claims use since Feb. 16, 1953.



## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 635,866. A & A Manufacturing Company, Milwaukee, Wis. Filed Sept. 27, 1952.

GORTITE-SLEEVE PROTECTION

The words "Sleeve" and "Protection" and the representation of the goods are disclaimed apart from the mark as shown.
For Protective Sleeves, Boots, and Covers Which Goods Are Sewn and Otherwise Fabricated From a Neoprene Base Material Thereby Forming a Telescopic Covering To Prevent Dust, Dirt, Oil, Water, Etc., From Working In To Deter the Functioning and Operation of Mechanical, Hydraulic, and Electrical Machinery.
Claims use since Feb. 4, 1952.

Ser. No. 644,939. Victor Manufacturing & Gasket Co., Chicago, Ill. Filed Apr. 8, 1953. (Sec. 2f.)

METALBAC

For Gaskets.
Claims use since Mar. 1, 1931.

Ser. No. 645,976. The Gates Rubber Company, Denver, Colo. Filed Apr. 27, 1953.

Ripple

For Garden Hose.
Claims use since October 1940.

## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 633,308. Hollis Music, Inc., New York, N. Y. Filed July 31, 1952.

MARS

For Grooved Phonograph Records.
Claims use since July 17, 1952.

Ser. No. 636,445. Vox Productions Inc., New York, N. Y. Filed Oct. 9, 1952.

Pantheon

For Grooved Phonograph Records.
Claims use since Sept. 22, 1950.



Ser. No. 637,238. Campbell & McClintock, Scarsdale, N. Y. Filed Oct. 27, 1952.

TELEGREETINGS

The representations for the musical stave and bar lines and the symbol G clef are disclaimed apart from the mark as shown.
For Grooved Phonograph Records.
Claims use since Oct. 23, 1952.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 584,061. The Holt Pen Company, Crompton, R. I., by change of name from George C. Holt, Inc. Filed Aug. 26, 1949.

NEETLINE

For Pens and Mechanical Pencils.
Claims use since Mar. 14, 1949.

Ser. No. 611,615. Papierfabrik Schoeller & Hoesch G. m. b. H., Gernsbach, Germany. Filed Feb. 21, 1951.

Tuko

Priority under Sec. 44(d). German application No. P964/27WZ, filed Aug. 30, 1950, Registration No. 615,357, dated Jan. 10, 1952.
For Condenser Paper and Condenser Tissue.

Ser. No. 614,683. Affiliated Retailers, Inc., New York, N. Y. Filed June 4, 1951.

Armaid

The mark consists of the word "Armaid."
For Toilet Tissue and Toilet Paper, Wax Paper, Paper Towels, Shelf Paper, and Paper Napkins.
Claims use since Aug. 25, 1949.

Ser. No. 624,576. Union Bag & Paper Corporation, New York, N. Y. Filed Feb. 5, 1952.

UNITHENE

For Sulphate or Sulphite Paper and Board.
Claims use since Jan. 16, 1952.

Ser. No. 630,797. Will Ross, Inc., Milwaukee, Wis. Filed June 5, 1952.

Kenwood

For Articles Made of Paper—Namely, Tissue, Handkerchiefs, Sputum Napkins, Tray Covers and Napkins, and Toilet Tissue.
Claims use since 1923.

Ser. No. 631,207. Foilcraft Printing Corporation, Brooklyn, N. Y. Filed June 14, 1952.

"foil flex"

No claim is made to the word "Foil" apart from the mark as shown.
For Plain and Paper-Backed Foil Products—Namely, Embossed Wrapping Paper, Book Covers, and Wrappers.
Claims use since June 13, 1952.

Ser. No. 636,473. Fraser Paper, Limited, Madawaska, Maine. Filed Oct. 10, 1952.

FRA-OPAQUE

Applicant disclaims the exclusive right to the term "Opaque" apart from the mark as shown.
For Opaque Circular Printing Papers.
Claims use since October 1935.

Ser. No. 639,738. Lakeside Central Company, Chicago, Ill. Filed Dec. 19, 1952.



For Boxed Writing Paper and Correspondence Envelopes and Combination Packages of Sheet Writing Paper and Correspondence Envelopes.
Claims use since Jan. 10, 1946.

Ser. No. 640,662. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Filed Jan. 13, 1953.

XTRA-SERV

Applicant claims ownership of Registration No. 563,153.
For Paper Toilet Tissue.
Claims use since Aug. 14, 1952.

## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 599,481. Army and Navy Journal, Inc., Washington, D. C. Filed June 21, 1950. (Sec. 2f.)

ARMY · NAVY · AIR FORCE

JOURNAL

Applicant claims ownership of Registration No. 427,289.
For Periodical.
Claims use since May 13, 1950.

Ser. No. 610,187. Radio-Television Manufacturers Association, Washington, D. C. Filed Feb. 16, 1951.

RTMA STANDARD

The word "Standard" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 506,099.
For Publications Issued From Time to Time Devoted to Radio Transmitting and Receiving Apparatus and Television Transmitting and Receiving Apparatus.
Claims use since August 1950.

Ser. No. 629,216. John Randolph, Tomball, Tex. Filed May 5, 1952.

TEXAS BRAGS

The word "Texas" is disclaimed.
For Booklets, Maps, and Printed Post Cards.
Claims use since Sept. 15, 1944.

Ser. No. 634,590. Gospel Trumpet Company, Anderson, Ind. Filed Aug. 28, 1952.




No claim is made to the words "Line" and "America's Favorite Religious Greetings" separate and apart from the mark as shown. Applicant claims ownership of Registrations Nos. 348,905 and 566,943.
For Greeting Cards.
Claims use since Aug. 1, 1952.

Ser. No. 634,637. Will Ecker & Co., St. Louis, Mo. Filed Aug. 29, 1952.



For Printed Calling Cards, Sold in Packets or Boxes.
Claims use since June 1, 1937.

Ser. No. 637,379. Installment Retailing, Inc., New York, N. Y. Filed Oct. 30, 1952.



For Magazines.
Claims use since Apr. 29, 1952.



Ser. No. 641,508. J. Leslie Horne, Oklahoma City, Okla. Filed Jan. 29, 1953.

Spotlight Studio

The word "Studio" is disclaimed apart from the mark.
For Photographs, Reprints of Photographs and Pictures, and the Like.
Claims use since Oct. 1, 1941.

Ser. No. 641,672. Dexter Press, Inc., West Nyack, N. Y. Filed Feb. 3, 1953.

Dextone

For Colored Pictorial Post Cards and Colored Pictures.
Claims use since January 1949.

Ser. No. 643,289. Charleston Electrical Supply Company, Charleston, W. Va. Filed Mar. 9, 1953.

Electrovox

Applicant claims ownership of Registration No. 176,728.
For Printed Publications Issued Periodically or From Time to Time.
Claims use since Jan. 1, 1922.

## CLASS 39

### CLOTHING

Ser. No. 578,034. M. & D. Simon Company Incorporated, Cleveland, Ohio. Filed Apr. 30, 1949. (Sec. 2f.)

Fitzhugh

Applicant claims ownership of Registration No. 434,248.
For Men's and Boys' Dress Shirts and Sport Shirts.
Claims use since Dec. 12, 1945.

Ser. No. 583,455. Timely Clothes, Inc., Rochester, N. Y. Filed Aug. 13, 1949. (Sec. 2f.)

balanced

tailoring

For Men's and Young Men's Suits, Topcoats, Overcoats, Sport Coats, Slacks, and Dress Suits.
Claims use since about August 1943.

Ser. No. 593,349. Hawley Products Company, St. Charles, Ill. Filed Mar. 3, 1950.

TROPICAP

For Fibrous Molded Caps.
Claims use since Feb. 14, 1950.

Ser. No. 604,446. Old Colony Knitting Mills, Inc., Hingham, Mass. Filed Oct. 4, 1950. (Sec. 2f.)

scotch-nap

For Ladies', Misses', and Children's Sweaters.
Claims use since Sept. 15, 1937.

Ser. No. 610,549. Freeport Shoe Company, Freeport, Maine. Filed Feb. 27, 1951.

Free-Stride Sport

The word "Sport" is hereby disclaimed separate and apart from the mark as shown.
For Women's Shoes.
Claims use since Apr. 1, 1948.

Ser. No. 617,567. The Wilson Rubber Company, Canton, Ohio. Filed Aug. 10, 1951.

POINSETTIA

Applicant claims ownership of Registration No. 325,143.
For Rubber and Plastic Industrial and Household Gloves.
Claims use since on or about Dec. 16, 1932.

Ser. No. 622,137. Bedford Shirt Corp., New York, N. Y. Filed Dec. 6, 1951.

WONDER-BLEND

For Men's and Boys' Dress and Sport Shirts.
Claims use since July 10, 1951.

Ser. No. 622,182. Texas Harvest Hat Company, Laredo, Tex. Filed Dec. 6, 1951.

Panastraw

For Men's, Ladies', and Children's Hats.
Claims use since Apr. 2, 1951.

Ser. No. 622,248. Camille Designs, Inc., St. Louis, Mo. Filed Dec. 8, 1951.



For Men's, Women's, and Misses' Shoes of Leather, Fabric, and Combinations Thereof.
Claims use since Dec. 6, 1948.

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Ser. No. 626,935. Fernande Perry, doing business as Sta-Tuk Industries, Eustis, Fla. Filed Mar. 24, 1952.

**STA-TUK**

For Belts Equipped With Slide-Fasteners and Used as a Connection Attachment for Blouses and Skirts; or Trousers and Shirts; or Skirts and Blouses With the Separable Slide-Fasteners Attached.
Claims use since Jan. 10, 1948.

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Ser. No. 630,053. Archdale Manufacturing Company, Inc., High Point, N. C. Filed May 22, 1952.

**ARCHDALE MAID**

For Ladies' Slips and Half Slips.
Claims use since Oct. 3, 1948.

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Ser. No. 630,577. Carwood Manufacturing Company, Winder, Ga. Filed June 2, 1952. (Sec. 2f.)

**RIP NOT**

Applicant claims ownership of Registration No. 427,219.
For Men's and Boys' Work Pants, Work Shirts, Overalls, Lined Coats, Sportswear — Namely, Slacks, Knickers, Shirts, Jackets, and Breeches, Including Hunting Breeches, and Industrial Uniforms—Namely, Shirts and Pants To Match.
Claims use since January 1937.

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Ser. No. 631,775. Butler Ames, Lowell, Mass. Filed June 26, 1952.

**SILVER SLIPPERS**

Applicant claims ownership of Registration No. 542,363.
For Outer and Under Shirts for Men, Women, Boys, and Girls.
Claims use since May 27, 1952.

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Ser. No. 631,839. W. F. Paine, Ltd., Godalming, England. Original filed, act of 1946, Supplemental Register, June 25, 1952; amended to application, Principal Register, Feb. 10, 1953.

*Alan Paine*

The name "Alan Paine" identifies F. Alan Paine, the managing director of the applicant company, consent of record.
For Men's and Women's Sweaters and Men's and Children's Sport Shirts and Leisure Jackets, and Men's Vests and Club Stripe Scarves.
Claims use since Jan. 12, 1951; and since Jan. 12, 1951, in commerce between foreign nations and the United States.

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Ser. No. 632,034. Kaylon Incorporated, New York, N. Y. Filed July 1, 1952.

**TOMMIE-TEENS**

Applicant disclaims "Teens" apart from the mark shown. Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.
For Ladies' and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes.
Claims use since Feb. 25, 1952.

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Ser. No. 634,441. Beautee-Fit Company, Los Angeles, Calif. Filed Aug. 26, 1952. (Sec. 2f.)

*Beautee-fit*

Applicant claims ownership of Registration No. 140,551.
For Brassières, Foundation Garments, Girdles, and Garter Belts.
Claims use since Jan. 2, 1920.

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Ser. No. 638,710. Knapp Brothers Shoe Manufacturing Corporation, Brockton, Mass., and Lewistou, Maine. Filed Nov. 28, 1952. (Sec. 2f.)

**KNAPP**

Applicant claims ownership of Registration No. 355,322.
For Men's, Women's, and Children's Shoes.
Claims use since 1920.

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Ser. No. 639,030. John Flautt Shoe Company Inc., Lynn, Mass. Filed Dec. 5, 1952.



The drawing is lined for the color gold.
For Men's and Women's Shoes, Sandals, and Slippers.
Claims use since Apr. 22, 1952.

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Ser. No. 639,294. Sweet-Orr & Co., Inc., Wappingers Falls and New York, N. Y. Filed Dec. 10, 1952. (Sec. 2f as to "Dust Tones.")

**SHEEN DUST TONES**

No claim is made to the exclusive use of the word "Sheen" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 68,459, 502,337, 511,183, and 536,886.
For Men's Pants and Outer Shirts.
Claims use since on or about Nov. 5, 1952, as to the mark shown; and since on or about Oct. 20, 1936, as to the mark "Dust Tones."

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Ser. No. 639,688. K. C. Boyswear Mfg. Co., Kansas City, Mo. Filed Dec. 18, 1952. (Sec. 2f.)




The word "Boyswear" is disclaimed apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 425,809.
For Boys' Outer Clothing, Specifically Bib Pants, Slacks, Knickers, Suits, Overcoats, Snow Suits, and Boot Pants.
Claims use since Apr. 24, 1942.

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Ser. No. 640,037. Don Stevens Classics, Inc., New York, N. Y. Filed Dec. 26, 1952.

*Don Stevens*
*Classic*

The name "Don Stevens" is fanciful. No claim is made to the exclusive right to the use of the word "Classics" apart from the mark as shown.
For Men's Top Coats, Suits, Sport Coats, and Slacks.
Claims use since May 1, 1952.

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Ser. No. 640,451. Franklin & Lasoff, Inc., Boston, Mass. Filed Jan. 7, 1953. (Sec. 2f.)

**GUYER**

For Men's and Boys' Caps and Hats.
Claims use since January 1920.

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Ser. No. 640,572. Lansburgh & Bro., Washington, D. C., assignor to City Stores Company, a Delaware corporation. Filed Jan. 9, 1953.

*Lansbrook*

Applicant claims ownership of Registrations Nos. 278,375 and 379,583.
For Men's and Boys' Overcoats, Coats, Raincoats, Suits, Sweaters, Sport Shirts, and Sport Coats.
Claims use since on or about Apr. 12, 1930.

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Ser. No. 641,277. Day's Tailor-D Clothing, Inc., doing business as WPL 7097, Tacoma, Wash. Filed Jan. 26, 1953.

**PERMALON**

For Men's Slacks Made of Rayon Gabardine.
Claims use since June 14, 1951.

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Ser. No. 641,301. The House of Swansdown, Inc., New York, N. Y. Filed Jan. 26, 1953.

**PEARL WHITE**

The name "Pearl White" is that of the motion picture actress, now deceased.
For Ladies' and Misses' Coats, Suits, Jackets, and Skirts.
Claims use since Jan. 21, 1951.

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Ser. No. 641,518. Richard Paul Inc., Wilmington, Del. Filed Jan. 29, 1953.

*Peds*

Applicant claims ownership of Registration No. 296,166.
For Stocking Feet.
Claims use since Mar. 15, 1932.

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Ser. No. 641,745. Charles Sartori, doing business as Sartori & Berger, Hamburg, Germany. Filed Feb. 4, 1953.

**„FLIP“**

Applicant claims ownership of German Registration No. 616,025, dated Jan. 28, 1952.
For Exchangeable Rubber Heels.

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Ser. No. 642,512. R. H. Fyfe & Co., Detroit, Mich. Filed Feb. 2, 1953. (Sec. 2f as to "Fyfe's.")




Applicant claims ownership of Registrations Nos. 337,281, 338,448, and 338,462.
For Children's Boots, Shoes, and Slippers Made of Leather, Fabric, Rubber, and Combinations of Said Materials.
Claims use since about January 1926.

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Ser. No. 642,689. Pleasure Togs, Inc., Atlanta, Ga. Filed Feb. 24, 1953.

*A Carole Sue ORIGINAL*

No claim is made to the word "Original" apart from the mark shown in the drawing.
For Women's and Girls' Blouses.
Claims use since Oct. 6, 1947.

Ser. No. 642,804. Crescendoe Gloves, Inc., Johnstown, N. Y. Filed Feb. 26, 1953.

AMEDOE

For Ladies' and Misses' Fabric Gloves.
Claims use since Mar. 3, 1952.

Ser. No. 643,365. Peter Pan Foundations, Inc., New York, N. Y. Filed Mar. 9, 1953.

*Lucky Treasure*

Applicant claims ownership of Registrations Nos. 527,906, 554,033, and 569,886.
For Brassières.
Claims use since Feb. 2, 1953.

Ser. No. 643,578. Artistic Foundations, Inc., New York, N. Y. Filed Mar. 13, 1953.

*figurama*

For Girdles.
Claims use since Dec. 29, 1952.

Ser. No. 645,679. James L. Terkelson, doing business as Kismet, San Francisco, Calif. Filed Apr. 21, 1953.

KISMET

For Men's, Ladies', and Children's Hosiery.
Claims use since May 1, 1922.

## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 631,018. Frances & Walter Nelkin, Inc., New York, N. Y. Filed June 10, 1952.

*"Peticord"*

For Fabric and Yarn Cording.
Claims use since May 5, 1952.

Ser. No. 637,918. E-Z Buckle, Inc., New York, N. Y. Filed Nov. 12, 1952.

FABUCKLE

For Buckles of Non-Precious Metals.
Claims use since Jan. 3, 1951.

Ser. No. 638,209. Morganstern, Brooks & Company, Fredericksburg, Va. Filed Nov. 17, 1952.

MOBRO-SEAL

The word "Seal" is disclaimed apart from the mark as shown.
For Waist Band Linings.
Claims use since Oct. 29, 1952.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 630,317. Ehiger Mills, Inc., New York, N. Y. Filed May 27, 1952.

KASH - U - WUL

The word "Wul" is disclaimed apart from the mark as shown on the drawing.
For Textile Fabrics in the Piece Made of Wool or Wool and Cashmere.
Claims use since about May 9, 1952.

Ser. No. 630,983. Brand & Oppenheimer Incorporated, New York, N. Y. Filed June 10, 1952.

*Chamelon*

For Textile Fabrics of Cotton, Wool, Synthetic Fibres, and Mixtures Thereof.
Claims use since February 1951.

Ser. No. 635,850. Riverdale Manufacturing Company, Inc., New York, N. Y. Filed Sept. 26, 1952.

*"ROSE NEW YORKER"*



Applicant disclaims the notation "New Yorker" apart from the mark shown on the drawing.
For Fabrics in the Piece Made of Wool and Synthetic Fibers.
Claims use since Sept. 1, 1952.



Ser. No. 639,562. Goodall-Sanford, Inc., Sanford, Maine. Filed Dec. 16, 1952.

FASHION - FIVER

Applicant disclaims the word "Fashion" apart from the mark as shown on the drawing.
For Piece Goods of Cotton, Mohair, and Wool, or Combinations Thereof.
Claims use since Aug. 1, 1952.

Ser. No. 640,084. Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa. Filed Dec. 27, 1952.

STERALITE

For Non-Woven Fabric in the Piece, Used as a Textile Substitute.
Claims use since Dec. 19, 1952.

Ser. No. 640,085. Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa. Filed Dec. 27, 1952.

STERALON

For Non-Woven Fabric in the Piece, Used as a Textile Substitute.
Claims use since June 25, 1948.

Ser. No. 640,086. Steralon Products, Incorporated, Dover, Del., and Philadelphia, Pa. Filed Dec. 27, 1952.

STERASEAL

For Non-Woven Fabric in the Piece, Used as a Textile Substitute.
Claims use since Jan. 20, 1951.

Ser. No. 640,142. Robert Barclay & Company Limited, Manchester, England. Filed Dec. 30, 1952.




The word "Brand" is hereby disclaimed apart from the mark as shown on the drawing. The name "John Bull" and the character shown in the drawing signify the country of England. Applicant claims ownership of British Registration No. 643,362, dated Jan. 7, 1946.
For Piece Goods of Cotton, Silk, Rayon, Nylon, Linen, Hemp, Wool, Worsted, or Hair, or Mixtures of Two or More of These Materials.

Ser. No. 640,698. A. J. Siris Products Corp., New York, N. Y. Filed Jan. 13, 1953.

*Betty Lou*

For Plastic Tablecloths.
Claims use since November 1952.

Ser. No. 640,782. Breneman-Hartshorn Inc., Cincinnati, Ohio. Filed Jan. 15, 1953.

*Textone*

For Embossed Plastic Shade Cloth in the Roll.
Claims use since Dec. 26, 1951.

Ser. No. 641,078. National Tinsel Manufacturing Company, Manitowoc, Wis. Filed Jan. 21, 1953.

*National*

For Textile Ribbons.
Claims use since Mar. 1, 1919.

Ser. No. 641,269. David B. Carmel & Co. Inc., New York, N. Y. Filed Jan. 26, 1953.

WOOLIUM

For Interlining Fabrics Wholly of Wool, or in Substantial Part of Wool Combined With Hair, Cotton, and Rayon.
Claims use since Jan. 8, 1953.

Ser. No. 641,447. Grandma Moses Properties, Inc., New York, N. Y. Filed Jan. 28, 1953.

*"GRANDMA MOSES TILES"*



"Grandma Moses" is the name by which the well-known primitive painter, Anna Mary Robertson Moses, generally is known, and her consent to register has been made a part of this application file. Applicant does not claim exclusive use of the words "fabric" and "from the original painting." Applicant claims ownership of Registration No. 556,305.
For Fabrics-in-the-Piece, Made of Wool and Synthetic Fibers.
Claims use since Jan. 7, 1953.

Ser. No. 641,792. Newport Finishing Corporation, Fall River, Mass. Filed Feb. 3, 1953.

*Resi-Therm*

Applicant claims ownership of Registrations Nos. 509,448 and 571,276.
For Metal Insulated Lining Fabric in a Roll or by the Yard, Made of Cotton, Wool, Rayon or Silk and Nylon.
Claims use since Nov. 6, 1952.

Ser. No. 642,172. Siegel Fabrics, Inc., Commack, N. Y. Filed Feb. 12, 1953.

SIEGELIZED

For Piece Goods of Cotton, Wool, Silk, and Synthetic Fibers or Filaments.
Claims use since Sept. 16, 1952.

Ser. No. 642,360. Lincoln Fabrics Co. Inc., New York, N. Y. Filed Feb. 17, 1953.

CINEMASCOPE

For Textile Fabrics Made of Cotton and Synthetic Fibres.
Claims use since Feb. 9, 1953.

Ser. No. 642,361. Lincoln Fabrics Co. Inc., New York, N. Y. Filed Feb. 17, 1953.

CORDORAMA

For Textile Fabrics Made of Cotton and Synthetic Fibres.
Claims use since Feb. 9, 1953.

Ser. No. 642,523. Callaway Mills Company, La Grange, Ga. Filed Feb. 20, 1953.

QUALTEX

Applicant claims ownership of Registration No. 364,818.
For Cotton Scatter Rugs.
Claims use since Jan. 26, 1953.

Ser. No. 642,539. Forstmann Woolen Co., Passaic, N. J. Filed Feb. 20, 1953.

NUBIA

Applicant claims ownership of Registrations Nos. 300,341 and 166,945.
For Woolen Piece Goods.
Claims use since Dec. 1, 1931.

Ser. No. 642,575. S. Stein & Co., Inc., New York, N. Y. Filed Feb. 20, 1953.

SPORTSORAMA

For Woolen Piece Goods.
Claims use since Jan. 5, 1953.

Ser. No. 642,693. Rosecrest Manufacturing Company, Boston, Mass. Filed Feb. 24, 1953.

Shannonderry

For Rayon Fabric Woven To Simulate Linen and Used in the Manufacture of Ladies' Wearing Apparel.
Claims use since Nov. 12, 1952.

Ser. No. 642,930. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga. Filed Mar. 2, 1953.

Thrift Twist

For Cotton Rugs and Carpeting.
Claims use since on or about Jan. 2, 1951.

Ser. No. 643,054. United Elastic Corporation, Easthampton, Mass. Filed Mar. 3, 1953.

ANCHORLASTIC

Applicant claims ownership of Registration No. 528,801.
For Woven Elastic Webbing With Non-Skid Ridges Woven Into the Webbing Surface, the Ridges Comprising Threads of Textile Material Which Have a Rubber Coating Adhering to Them, the Webbing Being Sold in Bulk to the Clothing Trade.
Claims use since Dec. 29, 1952.

Ser. No. 643,105. Leeds Associates Inc., New York, N. Y. Filed Mar. 4, 1953.

Chartones

For Wool Fabrics in the Piece.
Claims use since Dec. 12, 1952.

Ser. No. 644,113. M. Hausman & Sons, Inc., New York, N. Y. Filed Mar. 24, 1953.

CHROM - A - CEL

The word "Chrom" is disclaimed apart from the mark as shown in the drawing.
For Piece Goods Made of Synthetic Fibers.
Claims use since Feb. 4, 1953.

## CLASS 43

### THREAD AND YARN

Ser. No. 626,325. Harriet Cotton Mills, Henderson, N. C. Filed Mar. 12, 1952.




The name "Harriet-Henderson" is purely fanciful. No claim is made to the word "Henderson" apart from the mark in its entirety.
For Carded Cotton Yarn.
Claims use since Feb. 12, 1952.



Ser. No. 639,653. New England Spun Silk Corporation, Brighton, Mass. Filed Dec. 17, 1952.

Nespun

For Spun Yarns.
Claims use since Nov. 18, 1921.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 620,175. Martin Staunt, doing business as Midwest Dental Manufacturing Co., Chicago, Ill. Filed Oct. 18, 1951.

Stain MD Less

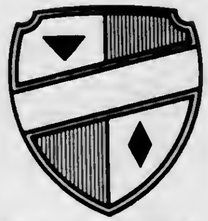
Applicant disclaims the words "Stain Less" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 425,374 and 349,338.
For Dental Handpieces.
Claims use since May 18, 1945.

Ser. No. 635,342. Austenal Laboratories, Incorporated, New York, N. Y. Filed Sept. 17, 1952.

VITALLIUM

Applicant claims ownership of Registrations Nos. 300,852 and 338,082.
For Dental Prosthetic Appliances and for Surgical Appliances—Namely, Bone Plates, Finger Plates, Finger Plate Screws, Contact Splints, Knee Plates, Coaptation Plates, Coaptors, Spinal Fusion Plates, Bolts, Washers, Nuts, Bone Screws, Large Screws, Transfixion Screws, Barr Bolts, Hip Screws, Lag Screws, Coraco-Clavicular Screws, Fracture Nails, Knee Buttons, Radius Caps, Hip Nails, Intertrochanteric Appliances, Splines, Carpal Scaphoid Replacements and Screws, Finger Caps, Patella Caps, Hip Cups, Hip Protheses, Skull Plates, Skull Plate Screws, Orbital Implants, Nasolacrimal Duct Tubes, Ear Molds, Hernia Plates, Bile Duct Tubes, Colostomy Plugs, Retention Catheters, Stem Pessaries, Testicular Implants, Blood Vessel Tubes, Extra-Oral Jaw Fracture Appliances, and Other Internal Reconstructive Appliances for Bone, Cartilage, and Soft Tissue.
Claims use since in or about July 1932.

Ser. No. 635,343. Austenal Laboratories, Incorporated, New York, N. Y. Filed Sept. 17, 1952.



The lining represents lining forming a part of the mark and does not indicate color. Applicant claims ownership of Registration No. 338,082.
For Dental Prosthetic Appliances and for Surgical Appliances—Namely, Bone Plates, Finger Plates, Finger Plate Screws, Contact Splints, Knee Plates, Coaptation Plates, Coaptors, Spinal Fusion Plates, Bolts, Washers, Nuts, Bone Screws, Large Screws, Transfixion Screws, Barr Bolts, Hip Screws, Lag Screws, Coraco-Clavicular Screws, Fracture Nails, Knee Buttons, Radius Caps, Hip Nails, Intertrochanteric Appliances, Splines, Carpal Scaphoid Replacements and Screws, Finger Caps, Patella Caps, Hip Cups, Hip Prostheses, Skull Plates, Skull Plate Screws, Orbital Implants, Nasolacrimal Duct Tubes, Ear Molds, Hernia Plates, Bile Duct Tubes, Colostomy Plugs, Retention Catheters, Stem Pessaries, Testicular Implants, Blood Vessel Tubes, Extra-Oral Jaw Fracture Appliances, and Other Internal Reconstructive Appliances for Bone, Cartilage, and Soft Tissue.
Claims use since in or about July 1932.

Ser. No. 638,880. Lee S. Smith & Son Manufacturing Company, Pittsburgh, Pa., and Chicago, Ill. Filed Dec. 2, 1952.

POSTREX

For Filling and Cementing Material in Powder and Liquid Form for Dental Use.
Claims use since 1942.

Ser. No. 642,532. Electrodyne Co., Norwood, Mass. Filed Feb. 20, 1953.

PACEMAKER

For Electro-Physiological Device for Generating and Applying Electrical Impulses to a Muscle or Muscles Through Electrodes.
Claims use since Jan. 2, 1953.

Ser. No. 643,094. The A. C. Gilbert Company, New Haven, Conn. Filed Mar. 4, 1953.

VITALATOR

For Portable Electrically Operated Vibrating Appliance for Massaging the Human Body and Stimulating Functions Thereof for Use by Athletes, Barbers, Beauty Parlors, and in the Home.
Claims use since Jan. 2, 1932.

## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Ser. No. 631,823. Sunway Fruit Products, Chicago, Ill. Filed June 26, 1952.

Freshie

For Non-Alcoholic, Maltless, Flavored Concentrate Used in Mixing Alcoholic and Non-Alcoholic Drinks.
Claims use since July 1944.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 552,123. The Colorado Milling & Elevator Co., doing business under the style names of The Hungarian Flour Mills and The Denver Flour Mills Co., Denver, Colo., and elsewhere. Filed Mar. 17, 1948. (Sec. 2f.)

HUNGARIAN

The drawing is lined to indicate red color. Applicant claims ownership of Registration No. 181,060.
For Wheat Flour.
Claims use since May 18, 1883.

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Ser. No. 552,702. Ralston Purina Company, St. Louis, Mo. Filed Mar. 22, 1948.



The trade-mark is a checkerboard band design occupying not more than half of any side, top, or bottom of the container. Applicant claims ownership of Registrations Nos. 35,369, 102,844, 102,845, 109,536, and others.
For Breakfast Cereal Foods; Scandinavian Style Bread; Animal Feeds for Chickens, Chicks, Dogs, Cows, Hens, Hogs, Horses, Mules, Rabbits, and Turkeys; Fresh Dressed Chickens; Fresh Dressed Turkey; Fresh Eggs; and Fresh Dressed Rabbits.
Claims use since August 1894.

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Ser. No. 567,886. Bernhardt Stahmer, doing business under the trade name of Industrial Electrical Works, Omaha, Nebr. Filed Oct. 29, 1948.

Ruffles

For Potato Chips.
Claims use since on or about Mar. 10, 1948.

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Ser. No. 594,263. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware. Filed Mar. 20, 1950.

NAEFCO

For Natural and Synthetic Food Flavorings Sold in Bulk to Confectionery Industries.
Claims use since 1910.

Ser. No. 607,547. Monroe D. Green, trading as M. D. Green Rice Milling Co., San Francisco, Calif. Filed Dec. 11, 1950.



Applicant claims ownership of Registration No. 402,475.
For Rice.
Claims use since March 1934.

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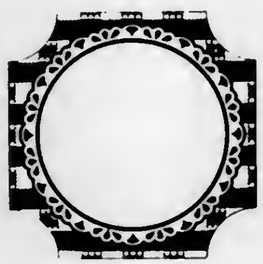
Ser. No. 618,870. Sun Garden Packing Company, San Jose, Calif. Filed Sept. 13, 1951.

Sunny Garden

No claim is made to the word "Garden" apart from the mark as shown.
For Canned Vegetables.
Claims use since Sept. 8, 1950.

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Ser. No. 629,303. Interstate Bakeries Corporation, Kansas City, Mo., doing business as: Schulze Baking Company, Chicago, Ill., and elsewhere; Weber Baking Co., Los Angeles, Calif., and elsewhere; Mrs. Karl's Bakeries, Inc., Milwaukee, Wis.; and O'Rourke Baking Co., Buffalo, N. Y. Filed May 7, 1952.



Exclusive right to register the checked or cross-stripes background is not claimed. Applicant claims ownership of Registrations Nos. 512,319 and 543,840.
For Bread.
Claims use since Nov. 3, 1951.

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Ser. No. 633,185. United Biscuit Company of America, Chicago, Ill. Filed July 28, 1952. (Sec. 2f.)

Strietmann

Applicant claims ownership of Registration No. 340,033.
For Cookies and Crackers.
Claims use since 1927.



Ser. No. 633,289. Aktieselskab Quality Canning Co. Limited, Stavanger, Norway, assignor to Trygve Olsen & Co. Aktieselskab, Stavanger, Norway, a joint stock company of Norway. Filed July 31, 1952.




The name and portrait shown are those of the well-known fictional character "Tom Sawyer" and do not represent any living individual.
For Canned Sardines.
Claims use since February 1926; and since February 1926 in commerce between Norway and the United States.

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Ser. No. 635,781. Ernest R. May, Albuquerque, N. Mex. Filed Sept. 25, 1952.

MELANI MAID

For Watermelon Syrups.
Claims use since June 19, 1952.

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Ser. No. 636,582. Beatrice Foods Co., Chicago, Ill. Filed Oct. 14, 1952.
Applicant claims ownership of Registrations Nos. 56,820, 99,205, and others.

Meadow Gold

For Butter; Oleomargarine; Eggs: Fresh, Frozen, and Powdered; Cheese; Mayonnaise Dressing, French Dressing, Sandwich Spread; Citrus Juices: Fresh Frozen, Reconstituted, and Canned; Ice Cream, Ice Milk, Ices and Sherbets of Various Flavorings, Frozen Confections Sold in Cups and on Sticks, Ice Cream Pies, Ice Cream Tarts, Ice Cream Cakes; Imitation Ice Cream Made From Vegetable Fat; Milk and Milk Products—Namely, Fluid Milks, Fluid Creams, Flavored Milk Drinks, Buttermilk, Skim Milk, Cottage Cheese, Modified and/or Fortified Milk, Concentrated and/or Frozen Milk, Sour or Salad Cream, Yogurt, Evaporated, Powdered, and Condensed Milks, Non-Fat Dry Milk Solids; Dessert Toppings, Consisting of Cream or Vegetable Fat Product, Whipped, and Expelled From Container by Gas.
Claims use since Sept. 1, 1901.

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Ser. No. 636,742. Sembodja Corporation of New York, also doing business under the name and style of Sembodja Corp., New York, N. Y. Filed Oct. 16, 1952.

SEMBODJA
EVERFRESH

The descriptive term "Everfresh" is disclaimed separately from the mark as shown. The term "Sembodja" is merely arbitrary and is the name of a little wild flower grown in Java.
For Fancy Shred Coconut.
Claims use since July 11, 1952.

Ser. No. 639,393. Rice Growers Association of California, also trading as Rice Growers Assn., Sacramento, Calif. Filed Dec. 12, 1952.

KOKUSAI

The trade-mark is a Japanese term which may be translated to mean "Between the Nations."
For Rice.
Claims use since Nov. 1, 1952.

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Ser. No. 641,358. Vegetable Oil Products Company, Inc., Wilmington, Calif. Filed Jan. 26, 1953.

VO-POP

For Coconut Oil Popcorn Seasoning.
Claims use since June 1, 1930.

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Ser. No. 641,996. John Ventre, Jr., doing business under the name and style of Ventre Packing Co., Syracuse, N. Y. Filed Feb. 9, 1953.

Enrico's

For Bottled Salad Dressing.
Claims use since Mar. 1, 1949.

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Ser. No. 642,306. E. W. Rieck, Inc., Chicago, Ill. Filed Feb. 16, 1953.

3 GENERATIONS

For Chili Sauce.
Claims use since Jan. 23, 1953.

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Ser. No. 643,379. Robt. R. and R. W. Smith Ltd., also doing business as Rowland Smith & Son, London, England. Filed Mar. 9, 1953.

OLDOAK

For Canned Ham.
Claims use since Feb. 24, 1953; and since Feb. 24, 1953, in commerce between foreign nations and the United States.

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Ser. No. 643,414. Harry Feldman, doing business as Feldman Fruit Company, East Chicago, Ind. Filed Mar. 10, 1953.

Trade Builder

For Onions in Their Natural State.
Claims use since Jan. 2, 1953.

Ser. No. 643,481. Food Specialties, Inc., Plymouth, Mass. Filed Mar. 11, 1953.

APPIAN WAY

For Combination Package Consisting of Yeast, Flour Mixture, and Pizza Sauce, Used To Make Pizza Pies and Other Pizza Products.
Claims use since Jan. 30, 1952.

Ser. No. 643,764. Inland Products, Inc., Columbus, Ohio. Filed Mar. 17, 1953.

PREP

For Canned Dog Food.
Claims use since on or about Jan. 23, 1953.

Ser. No. 645,422. Midland Cooperative Dairy Association, Shawano, Wis., and Syracuse, N. Y. Filed Apr. 16, 1953. (Sec. 2f.)

Neumilk

Applicant claims ownership of Registration No. 509,478.
For Evaporated Milk.
Claims use since Oct. 31, 1946.

Ser. No. 645,433. Rolling Hills Orchards, Inc., Los Angeles, Calif., and Emmett, Idaho. Filed Apr. 16, 1953.

ROLLING HILLS

For Fresh Deciduous Fruits.
Claims use since Mar. 24, 1953.

Ser. No. 645,459. Andre French Ice Cream Co., Inc., Brooklyn, N. Y. Filed Apr. 17, 1953.

Juliette

For Bulk and Packaged Ice-Cream, Ice-Cream Sandwiches, Bisque Tortoni, and Ice-Cream Covered Pops.
Claims use since Apr. 1, 1952.

Ser. No. 645,762. Piru Citrus Association, Piru, Calif. Filed Apr. 20, 1953. (Sec. 2f.)

DESIRABLE

Applicant claims ownership of Registration No. 344,644.
For Fresh Citrus Fruits.
Claims use since 1919.

## CLASS 48

### MALT BEVERAGES AND LIQUORS

Ser. No. 627,210. Harry Mitchell Brewing Company, El Paso, Tex. Filed Mar. 28, 1952. (Sec. 2f.)

Mitchell's

Applicant claims ownership of Registrations Nos. 365,292 and 381,471.
For Beer.
Claims use since November 1934.

Ser. No. 640,525. Pittsburgh Brewing Company, Pittsburgh, Pa. Filed Jan. 8, 1953. (Sec. 2f.)

IRON CITY

Applicant claims ownership of Registration No. 94,827.
For Beer.
Claims use since on or about Dec. 2, 1889.

Ser. No. 640,526. Pittaburgh Brewing Company, Pittsburgh, Pa. Filed Jan. 8, 1953.

Tech

Applicant's trade-mark is "Tech." Applicant claims ownership of Registrations Nos. 55,707, 61,139, and 95,657.
For Beer.
Claims use since on or about Mar. 15, 1906.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Ser. No. 545,373. Peter Frederik Suhm Heering, doing business as Peter F. Heering, Copenhagen, Denmark. Filed Dec. 24, 1947. (Sec. 2f.)




The words "Peter F. Heering" appearing in script across the medals are the signature of the founder of applicant's business, now deceased. Applicant disclaims for the purpose of registration all words excepting "Heering" and the signature "Peter F. Heering" apart from the mark as shown. Applicant claims ownership of Danish Registration No. 580—1945, dated Sept. 15, 1945; and United States Registrations Nos. 320,707, 322,836, and 322,837.
For Liqueurs.
Claims use since 1888; and since 1933 in commerce between foreign nations and the United States.



Ser. No. 627,224. Schenley Industries, Inc., New York, N. Y. Filed Mar. 28, 1952.

VIP

For Whiskey.
Claims use since Sept. 7, 1951.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 623,622. Upressit Metal Cap Corporation, Wilmington, Del. Filed Jan. 15, 1952. (Sec. 2f.)

UPRESSIT

The lines are a part of the mark and are not representative of color. Applicant claims ownership of Registration No. 115,041.
For Closures for Tin and Glass Containers.
Claims use since Oct. 9, 1951, as shown; and since about May 15, 1915, as to the word "Upressit."

Ser. No. 623,623. Upressit Metal Cap Corporation, Wilmington, Del. Filed Jan. 15, 1952. (Sec. 2f as to "Upressit.")




No claim is made to the representation of a closure apart from the mark as shown. The lines are a part of the mark and are not representative of color. Applicant claims ownership of Registration No. 115,041.
For Closures for Tin and Glass Containers.
Claims use since Oct. 9, 1951, as shown; and since about May 15, 1915, as to the word "Upressit."

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Ser. No. 620,802. Clairol Incorporated, Stamford, Conn. Filed Nov. 2, 1951.

Lady Clairol

The name "Lady Clairol" is fanciful. Applicant claims ownership of Registrations Nos. 302,399, 334,067, and others.
For Hair Shade Lightening Preparations.
Claims use since Aug. 31, 1951.

Ser. No. 627,146. Palmera Limited, Montreal, Quebec, Canada. Filed Mar. 27, 1952.

Lanoderm

Applicant claims ownership of Canadian Registration No. 136, folio N. S. 34,818, dated Mar. 1, 1950.
For Creams, Lotions, and Beauty Salves for the Skin, Face, Hands, and Scalp.

Ser. No. 627,475. Verdurin Company, Detroit and Midland, Mich. Filed Apr. 2, 1952.

PHYLLODENT

For Tooth Paste, Tooth Powder, and Mouth Wash.
Claims use since Mar. 19, 1952.

Ser. No. 627,936. Flomar Products Company, Milwaukee, Wis. Filed Apr. 11, 1952.

Flomar

For Bath Crystals, Bath Oil, and Personal Deodorant.
Claims use since Jan. 1, 1944.

Ser. No. 628,490. The Erno Laszlo Company, New York, N. Y. Filed Apr. 22, 1952.

pHelityl

Applicant hereby disclaims the exclusive right to the use of the "pH" factor designation, except as used in association with the other features of the mark.
For Beauty Preparations, i. e., Cleansing Oils, and Surface Creams.
Claims use since Dec. 20, 1951.

Ser. No. 628,492. The Erno Laszlo Company, New York, N. Y. Filed Apr. 22, 1952.

pHelitone

Applicant hereby disclaims the exclusive right to the use of the "pH" factor designation, except as used in association with the other features of the mark.
For Beauty Preparation, i. e., a Make-up Base.
Claims use since Dec. 20, 1951.

Ser. No. 628,493. The Erno Laszlo Company, New York, N. Y. Filed Apr. 22, 1952.

DUO-pHASE

Applicant hereby disclaims the exclusive right to the use of the "pH" factor designation, except as used in association with the other features of the mark.
For Beauty Preparation, i. e., a Face Powder.
Claims use since Dec. 20, 1951.

Ser. No. 628,499. The Erno Laszlo Company, New York, N. Y. Filed Apr. 22, 1952.



For Beauty Preparations, i. e., Cleansing Oils, Surface Creams, Lotions, Make-up Bases, Face Powders, and Smoothing Oils.
Claims use since Dec. 20, 1951.

Ser. No. 629,743. Florence Ormand Miller, doing business as Florence Miller, Dallas, Tex. Filed May 15, 1952.

Florence Miller

The name "Florence Miller" is the facsimile signature of the applicant, consent of record.
For Liquid Skin Cleanser, Skin Freshener, Non-Alcoholic Liquid Skin Astringent, Eye Cream, Dry Skin Cream, Throat Oil, Oily Skin Cream, Foundation Lotion, Make up Lotion, Creme and Dry Rouge, Lipstick, Eye Shadow, Mascara, Sun Tan Lotion, and Face Powder.
Claims use since June 15, 1949.

Ser. No. 634,147. Les Parfums de Dana, Inc., New York, N. Y. Filed Aug. 19, 1952.

20 QUILATES 20 KS 20 CARATS

Applicant claims ownership of Registration No. 330,410.
For Perfume and Cologne.
Claims use since December 1934.

Ser. No. 635,767. Richard Hudnut, New York, N. Y. Filed Sept. 25, 1952.

Light and Bright

For Liquid Hair Bleach.
Claims use since July 31, 1952.

Ser. No. 635,819. Dandrug Corporation, Highwood, Ill. Filed Sept. 26, 1952.

LANOLOTION

For Skin Cleanser and Lotion in Liquid Form.
Claims use since January 1939.

Ser. No. 637,609. Ortho Pharmaceutical Corporation, Raritan, N. J. Filed Nov. 4, 1952.

Pre-nay

For Massage Cream.
Claims use since Oct. 17, 1952.

Ser. No. 639,582. "4711" Limited, Beverly Hills, Calif. Filed Dec. 16, 1952.

LANOLIN-MIST

The term "Lanolin" is disclaimed apart from the mark as shown.
For Lanolin Esters Used as an Ingredient in Preparations for the Hair.
Claims use since Oct. 6, 1952.

Ser. No. 642,313. Sheldon Marvin Spector, doing business under the name and style of Sun Laboratories, Miami, Fla. Filed Feb. 16, 1953.

Lanodine

For Cosmetics—Namely, Sunburn Creams and Sunburn Lotions.
Claims use since Oct. 1, 1952.

Ser. No. 642,314. Sheldon Marvin Spector, doing business under the name and style of Sun Laboratories, Miami, Fla. Filed Feb. 16, 1953.

MENTHOCAINE

For Cosmetics—Namely, Sunburn Creams, and Sunburn Lotions.
Claims use since Oct. 1, 1952.



Ser. No. 642,578. Swiss Pine Importing Co., Inc., New York, N. Y. Filed Feb. 20, 1953.

Lactopine

Applicant claims ownership of Registration No. 361,202.
For Deodorant, Shaving Lotion, and After Shave Stick.
Claims use since 1938.

## CLASS 52

### DETERGENTS AND SOAPS

Ser. No. 632,387. Quick Charge, Inc., Oklahoma City, Okla. Filed July 10, 1952.

Quick-So

No claim is made to the word "Quick" apart from the mark as shown in the drawing.
For Cleaning Compound for Use in Steam Cleaners.
Claims use since September 1949.

Ser. No. 633,193. Beach Soap Company, Lawrence, Mass. Filed July 29, 1952.

Forall

For Synthetic Detergent for Washing Textile Materials, Dishes, and for General Cleaning.
Claims use since Mar. 6, 1947.

Ser. No. 633,330. Saspin Chemicals Incorporated, Chicago, Ill. Filed July 31, 1952.

SASHEEN

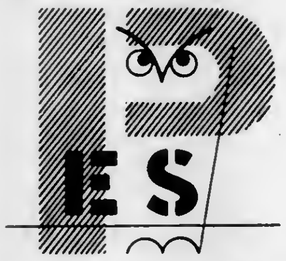
For Liquid Cleaner for Rugs, Carpets, Car Interiors, Drapes, Upholstery, and Other Washable Materials or Fabrics.
Claims use since Dec. 15, 1950.

# SERVICE MARKS

## CLASS 100

### MISCELLANEOUS

Ser. No. 628,991. American Public Health Association, New York, N. Y. Filed May 1, 1952.




The lining forms a part of the mark and does not represent a color.
For Achievement Testing Services—Namely, Formulating, Preparing, Conducting, and Administering Examinations Designed To Test the Professional Knowledge and Capabilities of Individuals in Various Fields of Medicine, Health, and Nursing, and Grading, Evaluating, and Analyzing the Results of Such Examinations.
Claims use since Oct. 1, 1951.

Ser. No. 637,497. Nedick's, Inc., Naw York, N. Y. Filed Nov. 1, 1952.

Nedicks

Applicant claims ownership of Registrations Nos. 107,900, 108,387, and others.
For Serving and Dispensing Foods and Beverages in Restaurants.
Claims use since 1916.

## CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 616,960. George S. McGinniss, South Norwalk, Conn. Filed July 26, 1951.

KAREN SAGE

The name "Karen Sage" is fictitious.
For Advertising Services To Promote the Sale of Merchandise by the Applicant's Clients Which Are Rendered by Presenting a Series of Lectures on Cooking and the Preparation of Foods in Theatres, on Radio and Television Broadcast Programs.
Claims use since Jan. 18, 1951.

## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 597,355. H. M. Sanders Co., Boston, Mass. Filed May 12, 1950. (Sec. 2f.)

HARDWARE

For Cleaning, Repairing, and Adjusting Door Checks; Sharpening and Repairing Saws, Lawn Mowers and Other Cutting Tools; Repairing Locks; and Reconditioning Power Drills, Power Saws and Other Power Tools.
Claims use since 1892.

Ser. No. 633,089. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed July 25, 1952.

CHEVRON THEATRE

Applicant disclaims the word "Theatre" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 521,798, 354,287, and others.

For Services Rendered at Automotive Service Stations and Garages Generally—Namely, Lubrication, Tire Repair, Tube Repair, Tire Vulcanizing, Tube Vulcanizing, Tire Recapping, Spark Plug Inspection and Cleaning, Wheel Switching, Battery Recharging, Battery Rental, Car Washing.

Claims use since Jan. 1, 1952.

## CLASS 104

### COMMUNICATION

Ser. No. 635,000. Storer Broadcasting Company, Birmingham, Mich. Filed Sept. 8, 1952.




For Radio and Television Broadcasting Services.

Claims use since Jan. 28, 1952.

Ser. No. 642,207. National Association of Radio and Television Broadcasters, Inc., Wilmington, Del., and Washington, D. C. Filed Feb. 16, 1953. CERTIFICATION MARK.




The applicant disclaims all words and numerals apart from the mark as shown. Applicant claims ownership of Registration No. 568,117.

For Broadcasting of Television Programs.

Claims use since Feb. 8, 1953.

## CLASS 106

### MATERIAL TREATMENT

Ser. No. 620,344. Bowman Chemicals, Inc., Los Angeles, Calif. Filed May 12, 1952.



For Chemically Treating Metal Products of Others To Reduce Rust and Corrosion.

Claims use since Sept. 15, 1949.

Ser. No. 639,654. Pilgrim Processing Corp., Brooklyn, N. Y. Filed Dec. 17, 1952.

PLISSETTE

For Printing and Dyeing Textiles.

Claims use since Feb. 4, 1952.

## CLASS 107

### EDUCATION AND ENTERTAINMENT

Ser. No. 642,788. Frances L. Weiss, doing business under the professional name of Fran Lee, Rye, N. Y. Filed Feb. 25, 1953.

MRS. FIXIT

No claim is made to the word "Fixit" apart from the mark as shown.

For Information Service Rendered to Women on Such Topics of Interest as Cooking, Baking, Serving and Storage of Food, Making, Designing, Remodeling, and Repairing of Household Utensils, Furniture, Clothing, Home Decorations, and Home Furnishings.

Claims use since Feb. 6, 1946.

# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1946, PRINCIPAL REGISTER

578,137. Paper Tablets—Namely, Examination Books. Western Tablet & Stationery Corporation, Dayton, Ohio.

Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Jan. 2, 1952, Serial No. 526,174. Published Mar. 31, 1953. Class 37.

578,138. Dress Clothing—Namely, Full Dress Suits and Tuxedos, Etc. Austin Reed Limited, London, England.

Filed Aug. 12, 1947, Serial No. 534,856. Published May 12, 1953. Class 39.

578,139. Preparation for Cleaning Glass, Porcelain, Painted Surfaces, and Metals. C. M. Kimball Co., Boston, Mass.

Filed Oct. 1, 1947, Serial No. 536,403. Published May 12, 1953. Class 52.

578,140. Fresh Grapes, Fresh Deciduous Fruits, and Fresh Vegetables. Pacific Fruit Exchange, San Francisco, Calif.

Filed Oct. 18, 1947, Serial No. 538,311. Published May 12, 1953. Class 46.

578,141. Automobile and Metal Paint Enamels and Varnishes, Etc. Nu-Enamel Corporation, Chicago, Ill., now by merger and change of name E Z Paintr Corporation.

Filed Dec. 4, 1947, Serial No. 543,317. Published May 12, 1953. Class 16.

578,142. Canned Food Products—Namely, Peeled and Unpeeled Apricots, Etc. Briardale Co., San Francisco, Calif.

Filed Jan. 7, 1948, Serial No. 546,353. Published Jan. 27, 1953. Class 46.

578,143. Electric Resistors. The Electric Controller & Manufacturing Company, Cleveland, Ohio.

Filed Feb. 27, 1948, Serial No. 550,679. Published May 12, 1953. Class 21.

578,144. Building Insulation Materials Relating to Heat, Moisture, and Sound, Comprising Fiber Glass, Etc. Air Seal Corporation, Flint, Mich.

Filed June 24, 1948, Serial No. 560,081. Published Oct. 14, 1952. Class 12.

578,145. Ladies' Dresses, Coats, Suits, Capes, Stoles, Muffs, Scarves, and Ties Made of Various Materials Such as Fabrics, Cloth and Fur or Trimmed With Fur. Norman Hartnell Limited, London, England.

Filed Aug. 18, 1948, Serial No. 564,251. Published May 12, 1953. Class 39.

578,146. Compounds for Exterminating Lice and Bugs. Berwyn Chemical Company, Incorporated, Berwyn, Pa.

Filed Sept. 15, 1948, Serial No. 565,166. Published May 5, 1953. Class 6.

578,147. Men's, Women's, Boys', and Girls' Mackintoshes; Men's, Women's, Boys', and Girls' Overcoats Made of Wool; Men's, Women's, and Girls' Ulsters Made of Wool; Men's Dress Suits and Men's Dress Overcoats All Made of Wool. John Shannon & Son Limited, Walsall, England.

Filed Dec. 16, 1948, Serial No. 570,640. Published Apr. 28, 1953. Class 39.

578,148. Mucilage Holder and Applier. Arthur C. Werner, doing business under the fictitious name and style of A. C. Werner Co., Lodi, Calif.

Filed Jan. 24, 1949, Serial No. 572,706. Published Mar. 31, 1953. Class 37.

578,149. Liquid Odoriferous Material Suitable for Use in Perfumes and Cosmetics. Givaudan-Delawanna, Inc., New York, N. Y.

Filed July 1, 1949, Serial No. 581,418. Published Apr. 7, 1953. Class 51.

578,150. Artificial Fishing Bait. Philip P. Dalton, Tampa, Fla.

Filed Jan. 11, 1950, Serial No. 590,654. Published May 12, 1953. Class 22.

578,151. Chemical Cotton Pulp (Alpha Cellulose) Made From Cottonseed Hull Fibers and Cotton Linters, Used in the Manufacture of Rayon, Photographic Film, Plastics, and Related Goods. The Buckeye Cotton Oil Company, Cincinnati, Ohio.

Filed Jan. 13, 1950, Serial No. 590,803. Published May 12, 1953. Class 1.

578,152. Head Gear for Men, Women, and Children—Namely, Hats, Caps, Bonnets, Tams, Babuskas, Etc. The Bamberger-Reinthal Company, Cleveland, Ohio.

Filed Jan. 30, 1950, Serial No. 591,662. Published Apr. 28, 1953. Class 39.

578,153. Apparel Caps of Straw. Samuel F. Stewart, Balboa, Canal Zone, assignor to Compania Inter-Americana, S. A., Panama City, Panama, a corporation of Panama.

Filed Feb. 6, 1950, Serial No. 592,055. Published Apr. 28, 1953. Class 39.

578,154. Prosthetic Devices—Namely, Artificial Breasts. Ella H. Bernhardt, New York, N. Y.

Filed Feb. 9, 1950, Serial No. 592,187. Published May 12, 1953. Class 44.

578,155. Cough Sirup. First Texas Chemical Manufacturing Co., Dallas, Tex.

Filed Apr. 3, 1950, Serial No. 595,131. Published May 12, 1953. Class 18.

578,156. Paints in Dry, Paste, and Ready-Mixed Forms, Etc. Brooklyn Varnish Manufacturing Company, Inc., Brooklyn, N. Y., now by change of name, Brooklyn Paint & Varnish Co., Inc.

Filed May 26, 1950, Serial No. 598,151. Published Apr. 28, 1953. Class 16.

578,157. Bowling Alleys and Parts Thereof; Pins, Balls, Alley Pit Mats, Ball Returns, Ball Stops, Terminal Posts and Newel Posts for Bowling Ball Racks, Ball Storage Racks, Ball Bags, and Hand Chalk. The Brunswick-Balke-Collender Company, Chicago, Ill.

Filed June 10, 1950, Serial No. 598,882. Published May 12, 1953. Class 22.

578,158. Foot Powder and Liquid for Use as a Fungicidal Antiseptic; for Treatment of Athlete's Foot; and for Ringworm. John L. Petranek, doing business as J. P. Products Co., Hammond, Ind.

Filed June 14, 1950, Serial No. 599,113. Published May 12, 1953. Class 18.

578,159. Motor Vehicle Heaters and Air Conditioners. Nash-Kelvinator Corporation, Detroit, Mich., and Kenosha, Wis.

Filed June 28, 1950, Serial No. 599,895. Published Apr. 24, 1951. Class 19.

578,160. Sweaters, Basque Shirts, Shirts for Sport Use, and Pajamas for Men, Women, and Children. The Hettrick Manufacturing Company, Toledo, Ohio.

Filed June 29, 1950, Serial No. 599,945. Published May 5, 1953. Class 39.

578,161. Motorcycles. International Sport Motors, Ltd., Hoboken, N. J.
Filed July 6, 1950, Serial No. 600,266. Published May 12, 1953. Class 19.

578,162. Boxed Stationery Comprising Writing Paper and Correspondence Envelopes. P. L. Thomas & Co., New York, N. Y.
Filed July 7, 1950, Serial No. 600,361. Published Mar. 10, 1953. Class 37.

578,163. Articles Made of Agglomerated Mica With a Vitreous Binder and Intended for Electrical Insulation, Etc. Societe Quartz & Silice, Paris, France.
Filed July 24, 1950, Serial No. 601,174. Published May 12, 1953. Class 21.

578,164. Automobile Polish. Able Industries Corporation, New York, N. Y.
Filed July 29, 1950, Serial No. 601,401. Published May 12 ,1953. Class 4.

578,165. Quilted Innerlinings Sold by the Yard for Women's and Men's Coats, Jackets, and Robes. Boston Quilting Corp., Franklin, Mass.
Filed Aug. 8, 1950, Serial No. 601,883. Published May 5, 1953. Class 42.

578,166. Fuel Feed Control Apparatus Sold as a Unit, Etc. General Metals Corporation, San Francisco, Calif.
Filed Aug. 19, 1950, Serial No. 602,446. Published Apr. 28, 1953. Class 23.

578,167. Bridal Hats and Bridal Veils. David Dubin Co. Inc., New York, N. Y., now by change of name Dubin Veilings, Inc.
Filed Oct. 6, 1950, Serial No. 604,524. Published May 12, 1953. Class 39.

578,168. Boots for Men, Women, and Children. C. & J. Clark Limited, Street, England.
Filed Oct. 10, 1950, Serial No. 604,687. Published Apr. 28, 1953. Class 39.

578,169. Topical Liquid Preparation for Treatment of Dandruff. Malvina D. Myers, doing business under the style name of Sure Shot Laboratories, Mobile, Ala.
Filed Jan. 22, 1951, Serial No. 608,844. Published May 5, 1953. Class 51.

578,170. Products Containing Metallic Nucleates Which Are Salts of Metals and Ribonucleic Acid, for Use as a Nutritional Supplement. Schwarz Laboratories, Inc., New York, N. Y.
Filed Feb. 6, 1951, Serial No. 609,701. Published May 12, 1953. Class 18.

578,171. Fluid Whipping Cream, Fluid Coffee Cream, Fluid Buttermilk, Fluid Pasteurized Milk, Fluid Pasteurized Homogenized Milk. Co-operative Dairies, Inc., Columbus, Miss.
Filed Feb. 8, 1951, Serial No. 609,785. Published Apr. 1, 1952. Class 46.

578,172. Gasoline. The Panhandle Producing and Refining Company, Wichita Falls, Tex., and elsewhere, assignor to Panhandle Oil Corporation, a corporation of Delaware.
Filed Feb. 23, 1951, Serial No. 610,484. Published May 5, 1953. Class 15.

578,173. Thermosetting Resin and Powder Used as Ingredients for Making Corrosion Resistant Cement Used as a Joining Material for Brick and Tile and To Adhere Glass, Concrete, and Metals. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed Mar. 14, 1951, Serial No. 611,255. Published Apr. 7, 1953. Class 12.

578,174. Products Used as Mixing Ingredients or Feed Supplements in Poultry, Livestock, and Other Animal Feeds and Containing Vitamin $B_{12}$. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 14, 1951, Serial No. 611,312. Published May 12, 1953. Class 18.

578,175. Television Receiving Sets. Hoffman Radio Corporation, Los Angeles, Calif.
Filed Mar. 27, 1951, Serial No. 611,844. Published Sept. 2, 1952. Class 21.

578,176. Eye-Drops. C. H. Boehringer Sohn, Ingelheim am Rhein, Germany.
Filed Feb. 24, 1951, Serial No. 612,103. Published May 12, 1953. Class 18.

578,177. Universal Joints and Parts Thereof, and Unitary Journal and Journal Bearing Assemblies, Sold as a Unit, Used for the Repair and Replacement of Universal Joints for Automotive and Other Application. Torque Manufacturing Corp., Detroit, Mich.
Filed Apr. 9, 1951, Serial No. 612,422. Published Apr. 28, 1953. Class 23.

578,178. Blank and Partially Printed Pressure-Sensitive Labels for Industrial Use. Western Lithograph Company, Los Angeles, Calif.
Filed May 1, 1951, Serial No. 613,399. Published Mar. 31, 1953. Class 37.

578,179. CONSOLIDATED CERTIFICATE. Corning Glass Works, Corning, N. Y.
Articles of Glass—Namely, Glass Ash Trays and Cigarette Boxes and Cigarette Containers. Filed May 11, 1951, Serial No. 613,764. Published Oct. 28, 1952. Class 8.
Book-Ends. Filed July 30, 1952, Serial No. 633,258. Published Oct. 28, 1952. Class 32.
Articles of Glass—Namely, Breakfast, Luncheon and Dinnerware, Etc. Filed May 11, 1951, Serial No. 613,765. Published Aug. 26, 1952. Class 33.
Articles of Glass—Namely, Candlesticks and Candelabra. Filed May 11, 1951, Serial No. 613,766. Published Sept. 16, 1952. Class 34.
Glass Inkwells and Paperweights. Filed May 11, 1951, Serial No. 613,767. Published Aug. 5, 1952. Class 37.
Articles of Glass—Namely, Ornamental Glass Figurines and Miniatures. Filed May 11, 1951, Serial No. 613,768. Published Aug. 26, 1952. Class 50.

578,180. Skin Lotion. Puerto Rico Distilling Company, sometimes trading as Pto. Rico Distilling Co., Arecibo, P. R.
Filed May 24, 1951, Serial No. 614,313. Published May 5, 1953. Class 51.

578,181. Pre-Fabricated Structural Panels and Reinforcing Strip Members for the Panels. Biwall Panel Structures, Inc., Tigard, Oreg.
Filed June 4, 1951, Serial No. 614,685. Published Apr. 7, 1953. Class 12.

578,182. Electromagnetic Vibrating Feeders and Electrical Power Units Comprising Transformers, Rectifiers, and Control Switches. Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Filed June 6, 1951, Serial No. 614,804. Published May 12, 1953. Class 21.

578,183. CONSOLIDATED CERTIFICATE. Corning Glass Works, Corning, N. Y.
Articles of Glass—Namely, Glass Ash Trays and Cigarette Boxes and Cigarette Containers. Filed June 7, 1951, Serial No. 614,868. Published Oct. 28, 1952. Class 8.
Articles of Glass—Namely, Book-Ends. Filed July 30, 1952, Serial No. 633,257. Published Oct. 28, 1952. Class 32.
Articles of Glass—Namely, Breakfast, Luncheon and Dinnerware, Etc. Filed June 7, 1951, Serial No. 614,869. Published Aug. 26, 1952. Class 33.
Articles of Glass—Namely, Candlesticks and Candelabra. Filed June 7, 1951, Serial No. 614,870. Published Sept. 16, 1952. Class 34.
Glass Inkwells and Paperweights. Filed June 7, 1951, Serial No. 614,871. Published Aug. 5, 1952. Class 37.
Articles of Glass—Namely, Ornamental Glass Figurines and Miniatures. Filed June 7, 1951, Serial No. 614,872. Published Aug. 26, 1952. Class 50.



578,184. Medicinal Product for the Treatment of Histaminic and Cholinergic Conditions. Societe des Usines Chimiques Rhone-Poulenc, Paris, France.
Priority under Sec. 44(d). French Registration No. 408,199, filed Dec. 15, 1950.
Filed June 8, 1951, Serial No. 614,964. Published May 12, 1953. Class 18.

578,185. Medicinal Preparation Adapted for Administration Under Prescription in the Treatment of the Menopause. E. K. Cook & Co., Inc., Washington, D. C.
Filed June 15, 1951, Serial No. 615,210. Published May 12, 1953. Class 18.

578,186. Soles and Heels of Rubber Composition or Its Equivalent for Boots and Shoes. The Bearfoot Sole Company, Inc., Boston, Mass.
Filed June 21, 1951, Serial No. 615,476. Published Feb. 26, 1952. Class 39.

578,187. Laminated Cloth and Foil Material Sold in Sheet Form and Designed for Use in Making Heat and Spark Deflecting Shields and Clothing. Cyril P. Frommelt, doing business as Frommelt Industries, Dubuque, Iowa.
Filed June 29, 1951, Serial No. 615,891. Published May 5, 1953. Class 42.

578,188. Infants' Sleeping Garments Consisting of Sleeping Bags. Jolly Kids Togs, Chicago, Ill.
Filed July 6, 1951, Serial No. 616,174. Published May 5, 1953. Class 39.

578,189. Ready-Mixed Concrete. Pioneer Sand and Gravel Company, Seattle, Wash.
Filed June 25, 1951, Serial No. 616,467. Published Apr. 7, 1953. Class 12.

578,190. Dietary Supplement. Salude Laboratories, Inc., Brooklyn, N. Y.
Filed July 14, 1951, Serial No. 616,512. Published May 12, 1953. Class 18.

578,191. (a) External Veterinary Liquid Preparation for Control of the Symptoms of Fungus Infections Commonly Called "Ringworm" and (b) an External Veterinary Liquid Preparation Having Mild Blistering Properties. John A. Fitzsimmons, doing business as Fitzsimmons Products, New York, N. Y.
Filed July 18, 1951, Serial No. 616,627. Published May 12, 1953. Class 18.

578,192. White, Colored, Silver, Kraft-Non-Tarnishing, Ribbed Wrapping Tissues, Etc. The Crystal Tissue Company, Middletown, Ohio.
Filed July 27, 1951, Serial No. 617,013. Published Mar. 24, 1953. Class 37.

578,193. Piston Rings. Hastings Manufacturing Company, Hastings, Mich.
Filed Aug. 9, 1951, Serial No. 617,497. Published May 12, 1953. Class 35.

578,194. Piece Goods of Cotton, Mohair, Wool, Synthetic Fibers and Combinations Thereof, Sold in Bolt. Goodall-Sanford, Inc., Sanford, Maine.
Filed Aug. 23, 1951, Serial No. 617,990. Published May 12, 1953. Class 42.

578,195. Men's and Women's Pajamas. Lubin-Weeker Co., Inc., New York, N. Y.
Filed Sept. 26, 1951, Serial No. 619,251. Published May 5, 1953. Class 39.

578,196. Headwear for Men—Namely, Felt Hats, Straw Hats, and Caps. Hat Corporation of America, Norwalk, Conn.
Filed Oct. 16, 1951, Serial No. 620,039. Published May 12, 1953. Class 39.

578,197. Chemo-Therapeutic Pharmaceutical Preparation in Solution Form for Subcutaneous Injection by Physicians for the Treatment of Blood Deficiencies. William L. Mayer, Detroit, Mich.
Filed Oct. 27, 1951, Serial No. 620,548. Published May 12, 1953. Class 18.

578,198. Wax Candles. Will & Baumer Candle Co., Inc., Syracuse, N. Y.
Filed Oct. 30, 1951, Serial No. 620,708. Published May 5, 1953. Class 15.

578,199. Pre-Mixed Acoustic Plaster Composed of Vermiculite, Aggregate, Bentonite, Asbestos, and Orvus Granules. Southern Mineralite Company, Incorporated, New Orleans, La.
Filed Nov. 15, 1951, Serial No. 621,289. Published Apr. 7, 1953. Class 12.

578,200. Separators or Insulators for Storage Batteries. Standard Electric Co., Inc., San Antonio, Tex.
Filed Nov. 16, 1951, Serial No. 621,338. Published May 5, 1953. Class 21.

578,201. Bibs for Children. Donovan Enterprises, Saugatuck, Conn.
Filed Dec. 6, 1951, Serial No. 622,150. Published Apr. 28, 1953. Class 39.

578,202. Textile Fabric of Cellulosic Fibers. American Cyanamid Company, New York, N. Y.
Filed Dec. 8, 1951, Serial No. 622,245. Published May 12, 1953. Class 42.

578,203. Medical and Surgical Supplies—Namely, Sterilizers, Incubators, Oxygen Apparatus, Etc. Robert Reid, Inc., Baltimore, Md.
Filed Dec. 12, 1951, Serial No. 622,409. Published May 12, 1953. Class 44.

578,204. Mineral Wool Thermal Insulation. Johns-Manville Corporation, New York, N. Y.
Filed Dec. 15, 1951, Serial No. 622,543. Published Apr. 7, 1953. Class 12.

578,205. Towels. Louis H. Greenberg Company, New York, N. Y.
Filed Dec. 18, 1951, Serial No. 622,651. Published May 12, 1953. Class 42.

578,206. Permanent Wave Lotion. Eve Beauty Products Co., Minneapolis, Minn.
Filed Dec. 20, 1951, Serial No. 622,709. Published Apr. 7, 1953. Class 51.

578,207. Dental Supplies—Namely, Scaler, Etc. Premier Dental Products Company, Philadelphia, Pa.
Filed Dec. 26, 1951, Serial No. 622,846. Published May 12, 1953. Class 44.

578,208. Hair Lotion. Quality Chemists, Inc., St. Louis, Mo.
Filed Jan. 2, 1952, Serial No. 623,078. Published Apr. 7, 1953. Class 51.

578,209. Brushes Used for Dyeing the Hair With Liquid Dye and for Similar Dye Uses. Suftko Tool and Die Co., Chicago, Ill.
Filed Jan. 2, 1952, Serial No. 623,089. Published May 12, 1953. Class 29.

578,210. Textile Rugs, Carpets, and Carpeting. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,118. Published May 12, 1953. Class 42.

578,211. Infants' Play Garment Set Consisting of Shirt and Pants. Napper Company, Incorporated, Winnetka, Ill.
Filed Jan. 21, 1952, Serial No. 623,846. Published May 5, 1953. Class 39.

578,212. Children's Slippers. Blanklette Corporation, New York, N. Y.
Filed Jan. 22, 1952, Serial No. 623,871. Published Apr. 28, 1953. Class 39.

578,213. Electromechanical Intelligence Analyzing Apparatus Comprising a Correlated System for Posting, and/or Visibly Indicating, and/or Orally Announcing Information, Etc. International Standard Trading Corporation, New York, N. Y.
Filed Jan. 25, 1952, Serial No. 624,086. Published May 5, 1953. Class 21.

578,214. Diapers and Paper Liners. Chicopee Mills, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,123. Published Apr. 28, 1953. Class 39.

578,215. Protective Clothing for Industrial Workers—Namely, Gloves, Etc. The Olympic Glove Company, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,146. Published May 5, 1953. Class 39.

578,216. Lathes and Turning Machines. The Cleveland Hobbing Machine Company, Euclid, Ohio.
Filed Jan. 29, 1952, Serial No. 624,226. Published Apr. 28, 1953. Class 23.

578,217. Extruded Metal Shapes Comprising Metal Trims, Etc. General Extrusions, Incorporated, Youngstown, Ohio.
Filed Jan. 29, 1952, Serial No. 624,231. Published Apr. 7, 1953. Class 12.

578,218. Hair Setting Preparations, Commonly Known as Hair Lacquers. Winco Associates, Inc., Chicago, Ill.
Filed Feb. 1, 1952, Serial No. 624,435. Published May 12, 1953. Class 51.

578,219. Hearing Aids and Parts Thereof—Namely, Electric Amplifiers, Microphones, Ear Phones, and Bone Conduction Receivers. Sonotone Corporation, Elmsford, N. Y.
Filed Feb. 12, 1952, Serial No. 624,865. Published Apr. 28, 1953. Class 44.

578,220. Hair Tonic. R. B. Semler, Inc., New Canaan, Conn., assignor to The J. B. Williams Co., Glastonbury, Conn., a corporation of Connecticut.
Filed Feb. 14, 1952, Serial No. 624,975. Published Apr. 7, 1953. Class 51.

578,221. Truck-Mountable Cranes for Vehicle Towing and Parts Therefor. W. T. Stringfellow & Co., Inc., Nashville, Tenn.
Filed Feb. 19, 1952, Serial No. 625,218. Published Apr. 28, 1953. Class 23.

578,222. Cough Medicine. Tenny Pharmacy, Inc., New York, N. Y.
Filed Feb. 21, 1952, Serial No. 625,373. Published May 12, 1953. Class 18.

578,223. Hair Tonic, Hair Dress With Oil, Bay Rum Compound, Etc. Associated Brands, Inc., Brooklyn, N. Y.
Filed Feb. 25, 1952, Serial No. 625,449. Published May 12, 1953. Class 51.

578,224. Wood Working Machines—Namely, Veneer Patching Machines and Plugging Machines, and Parts Thereof. R. Raimann, G. m. b. H., Freiburg-St. Georgen im Breisgau, Germany.
Priority under Sec. 44(d). German Registration No. R2467/23WZ, filed Oct. 23, 1951.
Filed Feb. 7, 1952, Serial No. 625,561. Published Apr. 28, 1953. Class 23.

578,225. Ladies' Shoes Constructed of Leather, Rubber, Fabric, or Combinations of Said Materials; and Ladies' Hats and Caps. Wilbar's, Inc., Boston, Mass.
Filed Feb. 28, 1952, Serial No. 625,704. Published Apr. 28, 1953. Class 39.

578,226. Natural Gasoline, Motor Gasoline, Kerosene, Distillates Such as Furnace Oils and Diesel Fuels, Gas Oil, Road Oil, Fuel Oil, Engine Oils Such as Motor Oils, Lubricating Oils and Industrial Oils, Lubricating Greases, Automobile Lubricants, and Penetrating Oil. Skelly Oil Company, Kansas City, Mo.
Filed Mar. 3, 1952, Serial No. 625,870. Published May 5, 1953. Class 15.

578,227. Species of Bentonite Clay Sold in Its Natural State or in a Dried or Pulverized State or Both. American Colloid Company, Chicago, Ill.
Filed Mar. 8, 1952, Serial No. 626,135. Published Apr. 28, 1953. Class 1.

578,228. Pharmaceutical and Medicinal Goods, Products, and Preparations, for Internal and Also for External Use, Etc. Sharp & Dohme, Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Mar. 8, 1952, Serial No. 626,179. Published May 12, 1953. Class 18.

578,229. Textile Fabrics Made of Wool, Silk, Cotton, Rayon, Linen, and Nylon. Manufactures de Senones (Vosges) Societe a Responsabilite Limitee, Paris, France.
Filed Mar. 13, 1952, Serial No. 626,396. Published May 5, 1953. Class 42.

578,230. Men's, Women's, and Children's Jackets, Coats, Suits, and Skirts. Samuel Robert, Inc., Haverhill, Mass.
Filed Mar. 15, 1952, Serial No. 626,532. Published Apr. 28, 1953. Class 39.

578,231. Women's Hosiery. Toast of the Town Hosiery, Inc., Cleveland, Ohio.
Filed Mar. 20, 1952, Serial No. 626,762. Published Dec. 30, 1952. Class 39.

578,232. Germicidal and Fungicidal Composition for Human Use. Neli Castaldo, Cranford, N. J.
Filed Mar. 27, 1952, Serial No. 627,112. Published May 12, 1953. Class 18.

578,233. Deodorant for Use on All Parts of the Body. Jules Montenier, Inc., Chicago, Ill.
Filed Mar. 27, 1952, Serial No. 627,144. Published May 12, 1953. Class 51.

578,234. Cosmetic Lotion. Lentheric, Incorporated, New York, N. Y.
Filed Apr. 3, 1952, Serial No. 627,516. Published Apr. 14, 1953. Class 51.

578,235. Sulphite Woodpulp, Groundwood Woodpulp, and Mutilated Sideruns. Bowater Paper Company, Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,667. Published Apr. 28, 1953. Class 1.

578,236. Hand Tools—Namely, Saws, Drills, Screwdrivers, Bit Holders, and Bits. Hy-Pro Tool Company, New Bedford, Mass.
Filed Apr. 9, 1952, Serial No. 627,818. Published Apr. 28, 1953. Class 23.

578,237. Women's and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes. Kaylon Incorporated, New York, N. Y.
Filed Apr. 9, 1952, Serial No. 627,823. Published Apr. 28, 1953. Class 39.

578,238. Golfers' Equipment Consisting of Pocket Attachment for Garment Belts in Which Golf Balls and Tees May Be Stored, Ready for Use by the Player. William T. Previdi, Allendale, N. J.
Filed Apr. 9, 1952, Serial No. 627,833. Published May 12, 1953. Class 22.

578,239. Airplanes. Consolidated Vultee Aircraft Corporation, San Diego, Calif.
Filed Apr. 10, 1952, Serial No. 627,865. Published May 12, 1953. Class 19.

578,240. Boots for Men, Women, and Children. The Cambridge Rubber Company, Cambridge, Mass., and Taneytown, Md.
Filed Apr. 11, 1952, Serial No. 627,927. Published Apr. 28, 1953. Class 39.

578,241. Vitamin Mixture for Livestock and Poultry. Farmcraft Feeds, Inc., Des Moines, Iowa.
Filed Apr. 11, 1952, Serial No. 627,935. Published May 12, 1953. Class 18.

578,242. Men's, Women's, Boys', and Girls' Raincoats. Plastics Products Company, Inc., Dallas, Tex.
Filed Apr. 26, 1952, Serial No. 628,777. Published May 5, 1953. Class 39.



578,243. Cleaning Compound for Household Textile Furnishings. Wade, Wenger & Associates, Inc., Chicago, Ill.
Filed Apr. 26, 1952, Serial No. 628,795. Published May 12, 1953. Class 52.

578,244. Medicament Obtained From Bacterial Extractions With Affinity to Cells in General, Etc. Chemisches Laboratorium am Heiligengeistfeld G. m. b. H., Hamburg, Germany.
Filed Mar. 21, 1952, Serial No. 628,888. Published May 12, 1953. Class 18.

578,245. Medicament Obtained From Bacterial Extractions, Etc. Chemisches Laboratorium am Heiligengeistfeld G. m. b. H., Hamburg, Germany.
Filed Mar. 21, 1952, Serial No. 628,889. Published May 12, 1953. Class 18.

578,246. Power Transmission Belting. Manheim Manufacturing & Belting Company, Manheim, Pa.
Filed Apr. 30, 1952, Serial No. 628,950. Published May 12, 1953. Class 35.

578,247. Lawn Seed Mixture. Lee Patten Seed Company, Jersey City, N. J.
Filed May 2, 1952, Serial No. 629,118. Published Apr. 28, 1953. Class 1.

578,248. Plastic Garden Hose. Boston Woven Hose and Rubber Company, Cambridge, Mass.
Filed May 2, 1952, Serial No. 629,140. Published May 12, 1953. Class 35.

578,249. Leather. Albert Trostel & Sons Company, Milwaukee, Wis.
Filed May 9, 1952, Serial No. 629,411. Published May 5, 1953. Class 1.

578,250. Fine Industrial Molding Powders Consisting Essentially of Nylon, for Use in the Production of Articles by Cold Pressing or Sintering Techniques. The Polymer Corporation, Reading, Pa.
Filed May 13, 1952, Serial No. 629,620. Published May 5, 1953. Class 1.

578,251. Swimming Trunks, Outer Shorts Adapted for Swimming, and Swimming Suits. Jantzen Knitting Mills Inc., Portland, Oreg.
Filed May 19, 1952, Serial No. 629,897. Published May 12, 1953. Class 39.

578,252. Sewing Machines, Sewing Machine Parts, Sewing Machine Needles, and Sewing Machine Attachments. Essel Import-Export Co., Inc., Flushing, N. Y.
Filed May 21, 1952, Serial No. 629,997. Published Apr. 28, 1953. Class 23.

578,253. Tooth Powder. Curtis L. Bryant, Detroit, Mich.
Filed May 23, 1952, Serial No. 630,114. Published May 12, 1953. Class 51.

578,254. Graphite Additive for Improving Lubricating Oil. Ernest A. Hartmann, doing business under the name of The Mololax Company, Buffalo, Iowa.
Filed May 26, 1952, Serial No. 630,300. Published May 5, 1953. Class 15.

578,255. Infants' and Children's Snow Suits, Jackets, Pants, and Leggings. Colonial Togs, New York, N. Y.
Filed June 5, 1952, Serial No. 630,759. Published Apr. 28, 1953. Class 39.

578,256. Live Chinchillas and Chinchilla Pelts. Edward E. Nelson, Sunland, Calif.
Filed June 6, 1952, Serial No. 630,852. Published May 5, 1953. Class 1.

578,257. Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, and Perfumed, Powdered Sachet. Rolley, Inc., also doing business as Rolley, San Francisco, Calif.
Filed June 9, 1952, Serial No. 630,954. Published May 12, 1953. Class 51.

578,258. Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, and Perfumed, Powdered Sachet. Rolley, Inc., also doing business as Rolley, San Francisco, Calif.
Filed June 9, 1952, Serial No. 630,955. Published May 12, 1953. Class 51.

578,259. Perfume, Cologne, Hand Cream, Bath Oil, Talc Powder, and Perfumed, Powdered Sachet. Rolley, Inc., also doing business as Rolley, San Francisco, Calif.
Filed June 9, 1952, Serial No. 630,960. Published May 5, 1953. Class 51.

578,260. Woven Corrugated Textile Fabrics of Synthetic Filaments. United States Rubber Company, New York, N. Y.
Filed June 12, 1952, Serial No. 631,134. Published May 5, 1953. Class 42.

578,261. Complete Electric Ranges and Stoves for Household Use. The Tappan Stove Company, Mansfield, Ohio.
Filed June 14, 1952, Serial No. 631,225. Published Apr. 7, 1953. Class 21.

578,262. Fish Worms. Milton S. Rainey, doing business as Rainey's Bait Ranch, Eatonton, Ga.
Filed June 17, 1952, Serial No. 631,310. Published May 5, 1953. Class 1.

578,263. Tools, and Machines and Parts Thereof for Use in Screw Connections, Etc. Heli-Coil Corporation, Danbury, Conn.
Filed June 19, 1952, Serial No. 631,418. Published Apr. 28, 1953. Class 23.

578,264. Packaged Ice With the Individual Parts Thereof of Substantially Arcuate Formation. Thomas D. Meacham, Monahans, Tex.
Filed June 18, 1952, Serial No. 631,358. Published Apr. 28, 1953. Class 1.

578,265. Men's and Boys' Dress Shirts and Sport Shirts. Bedford Shirt Corp., New York, N. Y.
Filed June 24, 1952, Serial No. 631,647. Published May 12, 1953. Class 39.

578,266. Women's and Girls' Raincoats. The Gillette Company, Boston, Mass.
Filed July 1, 1952, Serial No. 632,028. Published Apr. 28, 1953. Class 39.

578,267. Wire Products—Namely, Insulated Copper Wire, Television Lead-In Wire, and Lamp Cord. Jersey Specialty Company, Inc., Little Falls, N. J.
Filed July 2, 1952, Serial No. 632,080. Published May 12, 1953. Class 21.

578,268. Chemically Treated Paper for Use as Book Binding. The Munising Paper Company, Chicago, Ill.
Filed July 2, 1952, Serial No. 632,095. Published Mar. 31, 1953. Class 37.

578,269. Liquid Face Make-Up Preparation. Revlon Products Corporation, New York, N. Y.
Filed July 8, 1952, Serial No. 632,268. Published May 12, 1953. Class 51.

578,270. Feed Supplement. American Cyanamid Company, New York, N. Y.
Filed July 10, 1952, Serial No. 632,340. Published May 12, 1953. Class 18.

578,271. Shoes of Leather, Fabric, Other Materials, and Combinations Thereof for Men, Women, and Children. Weiss Lawrence, Inc., Somerworth, N. H.
Filed July 10, 1952, Serial No. 632,402. Published May 5, 1953. Class 39.

578,272. Coated Kraft Paper for Use in Magazines and Other Printed Publications. St. Regis Paper Company, New York, N. Y.
Filed July 17, 1952, Serial No. 632,690. Published Mar. 31, 1953. Class 37.

578,273. Seasonings for Meat Products. Arthur J. Gerst, trading and doing business as Sausage Industry Suppliers Co., San Jose, Calif.
Filed July 18, 1952, Serial No. 632,724. Published May 12, 1953. Class 46.

578,274. Paint Remover and Brush Softener. Frank M. Roth, doing business as Hi-Sky Products Co., Oshkosh, Nebr.
Filed July 18, 1952, Serial No. 632,745. Published May 12, 1953. Class 52.

578,275. Preparation To Be Used as a Textile Softener. Schiller Laboratories, Inc., Schiller Park, Ill.
Filed July 18, 1952, Serial No. 632,748. Published May 12, 1953. Class 6.

578,276. Sport Shirts for Young Men and Boys. Summit Mills Corporation, New York, N. Y.
Filed July 21, 1952, Serial No. 632,856. Published May 12, 1953. Class 39.

578,277. Welding Accessories—Namely, Resistant Welding Discs, Resistant Welding Wheels, Resistant Welding Dies, and Resistant Welding Wheel Scraper Blades. The Beryllium Corporation, Reading, Pa.
Filed July 23, 1952, Serial No. 632,915. Published May 5, 1953. Class 21.

578,278. Hog Cholera Vaccine. Research Laboratories, Inc., St. Joseph, Mo.
Filed July 25, 1952, Serial No. 633,073. Published May 5, 1953. Class 18.

578,279. Hypnotic Sedative Anesthetic Compound. Abbott Laboratories, North Chicago, Ill.
Filed July 29, 1952, Serial No. 633,189. Published May 12, 1953. Class 18.

578,280. Hats, Bonnets, and Scarfs for Misses and Ladies. Sam Neger, doing business under the trade name of The Elizabeth Hat Company, New York, N. Y.
Filed July 29, 1952, Serial No. 633,209. Published May 12, 1953. Class 39.

578,281. Hand Lotion. Athea Laboratories, Incorporated, Milwaukee, Wis.
Filed Aug. 4, 1952, Serial No. 633,442. Published May 12, 1953. Class 51.

578,282. Toothpaste. Pepsodent Limited, London, England.
Filed Aug. 8, 1952, Serial No. 633,627. Published May 12, 1953. Class 51.

578,283. Caps for Men, Women, and Children Made of Palm and Straw. Moe Greenwald, New York, N. Y.
Filed Aug. 12, 1952, Serial No. 633,767. Published May 12, 1953. Class 39.

578,284. Sweaters for Men, Women, Boys, Girls, and Infants. Benjamin Moseley Co. Inc., Needham, Mass.
Filed Aug. 13, 1952, Serial No. 633,831. Published Apr. 28, 1953. Class 39.

578,285. Pencils. National Tuberculosis Association, New York, N. Y.
Filed Aug. 13, 1952, Serial No. 633,853. Published Mar. 10, 1953. Class 37.

578,286. Portable Electric Paging System Consisting of a Megaphone, Battery, Battery Case, Microphone, Cable, Shoulder Strap, and Mobile Hold-Down Bracket. Henry W. Shaw, doing business as Sound-Craft Systems, Pittsburgh, Pa.
Filed Aug. 13, 1952, Serial No. 633,883. Published May 12, 1953. Class 21.

578,287. Electric Arc Welders, Cables, and Cable Clamps, for Use in Welding. Precision Welder Manufacturing Co., Chicago, Ill.
Filed Aug. 18, 1952, Serial No. 634,112. Published May 12, 1953. Class 21.

578,288. Hair Dressing and Hair Lotion. J. Strickland & Co., Memphis, Tenn.
Filed Aug. 19, 1952, Serial No. 634,107. Published May 12, 1953. Class 51.

578,289. Umbrellas. Friedman & Sons, New York, N. Y.
Filed Aug. 22, 1952, Serial No. 634,323. Published Mar. 17, 1953. Class 41.

578,290. Pneumatic Suction Cleaning Installations for Removing Broken Threads, Dust, Fluff, Loose Fibres, and Similar Matter From Textile Machines. Sulzer Frères, Société Anonyme, Winterthur, Switzerland.
Filed July 26, 1952, Serial No. 634,434. Published Apr. 28, 1953. Class 23.

578,291. Electric Irons. The Hoover Company, North Canton, Ohio.
Filed Aug. 26, 1952, Serial No. 634,468. Published May 5, 1953. Class 21.

578,292. Boots and Shoes for Men. Manfield and Sons, Limited, Northampton, England.
Filed Sept. 2, 1952, Serial No. 634,746. Published Apr. 28, 1953. Class 39.

578,293. Men's and Boys' Hats. The Britanny Hat Co., Inc., New York, N. Y.
Filed Sept. 3, 1952, Serial No. 634,774. Published May 12, 1953. Class 39.

578,294. Hand Operated Hydraulically Powered Lift Capable of Being Mounted on Frame of a Truck for the Purpose of Lifting Materials on to and Out of Truck. American Thermal Industries, Inc., Detroit, Mich.
Filed Sept. 4, 1952, Serial No. 634,831. Published Apr. 28, 1953. Class 23.

578,295. Cold Cream, Hand Lotion, Eye Drops, Mouth Wash, and Personal Deodorant. Cole Chemical Company, St. Louis, Mo.
Filed Sept. 6, 1952, Serial No. 634,935. Published Apr. 7, 1953. Class 51.

578,296. Electrical, Air-Deodorizing Apparatus, of the Ultra-Violet Ray Type. Easy-Eye Lighting, Inc., doing business as Fluorescent Fabricators, St. Louis, Mo.
Filed Sept. 8, 1952, Serial No. 634,971. Published May 5, 1953. Class 21.

578,297. Fertilizer. The Southern Cotton Oil Company, New Orleans, La.
Filed Sept. 8, 1952, Serial No. 634,999. Published Mar. 3, 1953. Class 10.

578,298. Carpet Sweepers. Modern Carpet Sweeper Co., Inc., Brooklyn, N. Y.
Filed Sept. 9, 1952, Serial No. 635,047. Published Apr. 28, 1953. Class 23.

578,299. Kerman Rugs. Russell C. Walker, Pittsburgh, Pa.
Filed Sept. 9, 1952, Serial No. 635,074. Published May 12, 1953. Class 42.

578,300. Medicinal Preparations for External Use in the Treatment of Skin Infections, Other Skin Irritations, Minor Burns, Chafing, Poison Ivy, Insect Stings, and Rectal Itching. Dome Chemicals, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,174. Published May 5, 1953. Class 18.

578,301. Ladies' and Misses' Coats, Suits, Jackets, and Skirts. The House of Swansdown, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,182. Published Apr. 28, 1953. Class 39.

578,302. Ladies' and Misses' Outer Skirts. Townecliffe, Inc., New York, N. Y.
Filed Sept. 12, 1952, Serial No. 635,201. Published Apr. 28, 1953. Class 39.

578,303. Adhesive Consisting of Liquid Glue in a Container and Adapted for Gluing Chairs, Tables, Frames, Shoes, Golf Bags, Raincoats, Floor Mats, Dishes, China and Tile, Etc. Bard's Products, Inc., Evanston, Ill.
Filed Sept. 17, 1952, Serial No. 635,344. Published May 12, 1953. Class 5.

578,304. Electronic Deodorizers Utilizing the Ultraviolet Principle of Generating Ozone From the Air. Estelite Company, Inc., Hoosick Falls, N. Y.
Filed Sept. 17, 1952, Serial No. 635,354. Published May 5, 1953. Class 21.

578,305. Refined Tall Oil. Furac Oil and Chemical Company, Chicago, Ill.
Filed Sept. 18, 1952, Serial No. 635,413. Published Apr. 28, 1953. Class 1.



578,306. Women's and Men's Shoes Made Wholly or in Part of Leather and Fabric. A. S. Beck Shoe Corporation, New York, N. Y.
Filed Sept. 19, 1952, Serial No. 635,458. Published Apr. 28, 1953. Class 39.

578,307. Powdered Laundry Soap. Mt. Hood Soap Company, Portland, Oreg.
Filed Sept. 20, 1952, Serial No. 635,547. Published May 12, 1953. Class 52.

578,308. Filled Comforters and Blankets. Heberlee Air-Lite, Inc., Seattle, Wash.
Filed Sept. 23, 1952, Serial No. 635,651. Published May 12, 1953. Class 42.

578,309. Deodorizer, Germicide, and Disinfectant for Clothing, Particularly Diapers. Virginia S. Carson, Kansas City, Mo.
Filed Sept. 29, 1952, Serial No. 635,901. Published May 12, 1953. Class 6.

578,310. Kitchen Machines—Namely, Electrically Operated Dishwashers, Vegetable Peelers, Vegetable Cutters, and Cutlery Burnishers. Toledo Scale Company, Flemington, N. J., and Toledo, Ohio.
Filed Oct. 3, 1952, Serial No. 636,157. Published May 12, 1953. Class 21.

578,311. Artificial Fish Lure. National Expert Bait Co., Minneapolis, Minn.
Filed Oct. 6, 1952, Serial No. 636,245. Published May 12, 1953. Class 22.

578,312. Antibiotic. Schering Corporation, Bloomfield, N. J.
Filed Oct. 10, 1952, Serial No. 636,499. Published May 12, 1953. Class 18.

578,313. Canned, Unbaked Biscuits. The Borden Company, New York, N. Y.
Filed Oct. 11, 1952, Serial No. 636,510. Published Apr. 7, 1953. Class 46.

578,314. Men's Neckties and Scarfs. Wembley, Inc., New Orleans, La.
Filed Oct. 14, 1952, Serial No. 636,619. Published May 12, 1953. Class 39.

578,315. Medicinal Preparation in Pill Form Containing Phenobarbital and Used as a Sedative. Chicago Pharmacal Company, Chicago, Ill.
Filed Oct. 16, 1952, Serial No. 636,686. Published May 12, 1953. Class 18.

578,316. Preparation for Teething Pain. Ted Robinson, doing business under the trade name and style of Cardinal Products, Hudson Heights, N. J.
Filed Oct. 16, 1952, Serial No. 636,737. Published May 12, 1953. Class 18.

578,317. Men's and Boys' Overalls, Shorts, Work Pants, Work Shirts, Men's and Boys' Blouses, and Dungarees, Shorts, and Blue Jeans for Girls, Misses, and Women. Shreveport Garment Manufacturers, Shreveport, La.
Filed Oct. 16, 1952, Serial No. 636,744. Published May 12, 1953. Class 39.

578,318. Pharmaceutical Preparation for the Control of Pre-Menstrual Tension and for the Treatment of Dysmenorrhea. Nutrition Research Laboratories, Inc., Chicago, Ill.
Filed Oct. 18, 1952, Serial No. 636,861. Published May 12, 1953. Class 18.

578,319. Medicinal Preparation of Carbacrylamine Resins, Etc. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,056. Published May 12, 1953. Class 18.

578,320. Storage Batteries. Cadnic Corporation, Denver, Colo.
Filed Oct. 27, 1952, Serial No. 637,237. Published May 5, 1953. Class 21.

578,321. Bricks. The Alliance Clay Product Co., Alliance, Ohio.
Filed Oct. 29, 1952, Serial No. 637,292. Published Apr. 21, 1953. Class 12.

578,322. Wooden Doors. Michigan Door Company, Grand Rapids, Mich.
Filed Oct. 30, 1952, Serial No. 637,385. Published Apr. 21, 1953. Class 12.

578,323. Electrical Chassis for Radio Receivers. Motorola, Inc., Chicago, Ill.
Filed Oct. 30, 1952, Serial No. 637,388. Published May 5, 1953. Class 21.

578,324. Fur Coats, Fur Capes, and Fur Jackets. Jerome Edelstein Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,483. Published May 12, 1953. Class 39.

578,325. Electrical and Magnetized Phonograph Records, Recording Wire, and Recording Tape. C. Schous Fabriker A/S, Copenhagen, Denmark.
Filed Oct. 31, 1952, Serial No. 637,525. Published May 5, 1953. Class 21.

578,326. Salt Composition for Use in Curing Bacon and Whole Meats. The Griffith Laboratories, Inc., Chicago, Ill.
Filed Nov. 3, 1952, Serial No. 637,655. Published Apr. 7, 1953. Class 46.

578,327. Textile Fabrics in the Piece Composed of Rayon and Nylon. Mandee Fabrics, Inc., New York, N. Y.
Filed Nov. 5, 1952, Serial No. 637,660. Published May 12, 1953. Class 42.

578,328. Rectal Ointment. Surtops Laboratory, Inc., Detroit, Mich.
Filed Nov. 6, 1952, Serial No. 637,732. Published May 5, 1953. Class 18.

578,329. Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fabrics. Tanbro Fabrics Corp., New York, N. Y.
Filed Nov. 7, 1952, Serial No. 637,799. Published May 12, 1953. Class 42.

578,330. Preparation for Use in the Treatment of a Metabolic Disorder Characterized by Abnormal Quantities of Ketones in the Blood and Urine of Certain Ruminants. The Upjohn Company, Kalamazoo, Mich.
Filed Nov. 7, 1952, Serial No. 637,804. Published May 5, 1953. Class 18.

578,331. Preparation for Use in Connection With the Diet of Patients Having Cardio-Vascular and Renal Disorders in Which Low Sodium Intake Is Indicated. The Upjohn Company, Kalamazoo, Mich.
Filed Nov. 7, 1952, Serial No. 637,805. Published May 5, 1953. Class 18.

578,332. Antibiotic Preparation Containing a Substantially Water Insoluble Penicillin Salt. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed Nov. 12, 1952, Serial No. 637,943. Published May 5, 1953. Class 18.

578,333. Electrical Apparatus for Generating Formaldehyde Vapor From Formaldehyde Pastils To Effect Disinfection of the Contents of Surgical Instrument Cabinets. American Cystoscope Makers, Inc., New York, N. Y.
Filed Nov. 13, 1952, Serial No. 637,982. Published May 12, 1953. Class 21.

578,334. Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fabrics. North American Commercial Corporation, New York, N. Y.
Filed Nov. 14, 1952, Serial No. 638,093. Published May 12, 1953. Class 42.

578,335. Medicaments—Namely, an Antibiotic in Solution for Use as a Soothing Nasal Decongestant. S. Pfeiffer Manufacturing Company, St. Louis, Mo.
Filed Nov. 14, 1952, Serial No. 638,096. Published May 5, 1953. Class 18.

578,336. Electronic Tubes. Westinghouse Electric Corporation, East Pittsburgh, Pa., and Elmira, N. Y.
Filed Nov. 15, 1952, Serial No. 638,174. Published May 12, 1953. Class 21.

578,337. Textile Fabrics in the Piece Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fabrics. Tanbro Fabrics Corp., New York, N. Y.
Filed Nov. 17, 1952, Serial No. 638,224. Published May 12, 1953. Class 42.

578,338. Medicated Greaseless Skin Ointment. The J. R. Watkins Company, Winona, Minn.
Filed Nov. 18, 1952, Serial No. 638,279. Published May 5, 1953. Class 18.

578,339. Insulated Electric Cord. General Electric Company, Schenectady, N. Y.
Filed Nov. 19, 1952, Serial No. 638,299. Published May 12, 1953. Class 21.

578,340. Clothes Line. Samson Cordage Works, Boston, Mass.
Filed Nov. 19, 1952, Serial No. 638,317. Published Apr. 28, 1953. Class 7.

578,341. Piece Goods of Cotton, Wool, Silk, and Synthetic Fibers. Elder Manufacturing Company, St. Louis, Mo.
Filed Nov. 20, 1952, Serial No. 638,354. Published May 12, 1953. Class 42.

578,342. Salt Composition for Use in Curing Bacon and Other Whole Meats. The Griffith Laboratories, Inc., Chicago, Ill.
Filed Nov. 21, 1952, Serial No. 638,416. Published Mar. 17, 1953. Class 46.

578,343. Antibiotic Preparation for Use in Antibacterial Therapy. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Nov. 25, 1952, Serial No. 638,608. Published May 5, 1953. Class 18.

578,344. Antibiotic Preparation. Sharp & Dohme Incorporated, Philadelphia, Pa., now by merger Merck & Co., Inc., a corporation of New Jersey.
Filed Nov. 25, 1952, Serial No. 638,609. Published May 5, 1953. Class 18.

578,345. Knitted Fabric Made of Cotton, Wool, Silk, Synthetic Fibers, and Combinations Thereof for Use in the Manufacture of Underwear and Outerwear. Armtex, Incorporated, Pilot Mountain, N. C.
Filed Nov. 26, 1952, Serial No. 638,629. Published May 12, 1953. Class 42.

578,346. Plastic-Coated Cotton and Linen Fabric Sold in the Roll and for Tablecloths. William Brandwein, doing business as Brandwein & Company, Chicago, Ill.
Filed Nov. 26, 1952, Serial No. 638,633. Published May 12, 1953. Class 42.

578,347. Medicinal Preparation, Etc. Eli Lilly and Company, Indianapolis, Ind.
Filed Nov. 28, 1952, Serial No. 638,729. Published May 12, 1953. Class 18.

578,348. Wire Rope. The Colorado Fuel and Iron Corporation, Denver, Colo.
Filed Nov. 29, 1952, Serial No. 638,755. Published May 5, 1953. Class 7.

578,349. Iodine for Medicinal Purposes in Liquid and Gel Form. Medical Iodine Laboratories, Inc., Avalon, Pittsburgh, Pa.
Filed Nov. 29, 1952, Serial No. 638,774. Published May 5, 1953. Class 18.

578,350. Canned Tomato Paste. Turlock Co-Operative Growers, Modesto and San Francisco, Calif.
Filed Jan. 12, 1953, Serial No. 640,656. Published May 12, 1953. Class 46.

578,351. Visors for Automobiles. JAK Visor Company, Laurelton, N. Y.
Filed Mar. 10, 1953, Serial No. 643,425. Published May 12, 1953. Class 19.

### Service Marks

578,352. Underwriting of Life Insurance Combined With Polio Insurance for Its Members as a Fraternal Benefit Society. Modern Woodmen of America, Rock Island, Ill.
Filed Apr. 10, 1951, Serial No. 612,465. Published May 5, 1953. Class 102.

578,353. Consulting Services to Manufacturers Relating to Quality in Products, Safety in the Plant, Production Efficiency, and Better Employee Relations. Ralph E. Burt, doing business as Ralph E. Burt Associates, Springfield, Mass.
Filed Feb. 12, 1952, Serial No. 624,813. Published May 5, 1953. Class 100.

578,354. Advertising the Goods and Services of Others Through the Medium of Radio and Television Programs. The Fort Industry Company, Birmingham, Mich., now by change of name Storer Broadcasting Company.
Filed Feb. 25, 1952, Serial No. 625,471. Published May 5, 1953. Class 101.

578,355. Various Services Performed for Clients—Namely, Arranging for the Mention of Its Clients' Names and Products on Radio, Etc. V. I. P. Service, Inc., New York, N. Y.
Filed May 13, 1952, Serial No. 629,638. Published May 12, 1953. Class 101.

## ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

578,356. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Bowser, Inc., Fort Wayne, Ind. Original filed, act of 1946, Principal Register, Sept. 30, 1947; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 536,227.




For Fire Fighting Hose and Nozzle Racks, Both With and Without Hose and Nozzles.
Claims use since Sept. 4, 1947.

578,357. (Class 46. Foods and Ingredients of Foods.) Aroma Coffee Company, Chicago, Ill. Original filed, act of 1946, Principal Register, May 15, 1948; amended to application, Supplemental Register, May 26, 1953, Serial No. 557,102.

AROMA

For Coffee.
Claims use since Jan. 7, 1921.



578,358. (Class 2. Receptacles.) Rossotti Lithograph Corporation, North Bergen, N. J. Original filed, act of 1946, Principal Register, Nov. 3, 1949; amended to application, Supplemental Register, Sept. 11, 1951, Serial No. 587,288.




The word "Cartons" is disclaimed when used separate and apart from the mark, as shown. Applicant claims ownership of Registrations Nos. 330,220, 364,717, and 381,853.
For Cartons of Cardboard Having One or More Transparent Windows, for Food Products.
Claims use since July 25, 1949.

578,359. (Class 29. Brooms, Brushes, and Dusters.) Marsh Stencil Machine Company, Belleville, Ill. Original filed, act of 1946, Principal Register, Nov. 17, 1949; amended to application, Supplemental Register, Nov. 10, 1950, Serial No. 587,962.

Felt-Point

For Fountain Brushes for Lettering and Marking Packages and the Like, Alone or in Combination With a Stencil.
Claims use since Nov. 5, 1949.

578,360. (Class 31. Filters and Refrigerators.) Mitchell Manufacturing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 22, 1950; amended to application, Supplemental Register, May 9, 1951, Serial No. 596,177.

micro-filter

For Removable Air Filter Units Made of Fibre Glass for Extracting Dust and Dirt From the Air Used in Electrically Operated Room Air Conditioners.
Claims use since Dec. 15, 1949.

578,361. (Class 19. Vehicles.) Hager & Jones, Oakland, Calif. Original filed, act of 1946, Principal Register, May 8, 1950; amended to application, Supplemental Register, July 30, 1951, Serial No. 597,074.

LOXIT

For Hydraulically Controlled Valve Responsive to the Manifold Pressure of an Automotive Engine or to the Positioning of a Vehicle Brake Pedal for Locking the Vehicle Brakes.
Claims use since July 27, 1949.

578,362. (Class 46. Foods and Ingredients of Foods.) George M. Jorgensen, Chicago, Ill. Original filed, act of 1946, Principal Register, May 10, 1951; amended to application, Supplemental Register, June 19, 1952, Serial No. 613,714.

FRIC-A-DEL

For Sandwiches Consisting of Ground Meat and Bread.
Claims use since May 9, 1947.

578,363. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Paper Machinery and Research, Inc., Roselle, N. J. Original filed, act of 1946, Principal Register, May 28, 1951; amended to application, Supplemental Register, May 6, 1952, Serial No. 614,459.

NO-FLEX

For Printing Rolls.
Claims use since Apr. 12, 1949.

578,364. (Class 5. Adhesives.) Thompson Winchester Company, Boston, Mass. Original filed, act of 1946, Principal Register, June 23, 1951; amended to application, Supplemental Register, May 6, 1953, Serial No. 615,613.

Stik-tack

For Adhesive Discs for Holding Papers and Other Light Articles to Boards, Walls, Etc.
Claims use since July 1, 1950.

578,365. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Hillman Wreather Ring & Machine Co., East Paterson, N. J. Original filed, act of 1946, Principal Register, Aug. 8, 1951; amended to application, Supplemental Register, Sept. 16, 1952, Serial No. 617,440.




No claim is made to exclusive ownership in the word "Wreather" except as to its use in combination with the other features of the mark as shown.
For Machine for Making Wreaths.
Claims use since July 2, 1951.

578,366. (Class 22. Games, Toys, and Sporting Goods.) John P. Boyd, doing business under the name and style of The Hook-Easer Company, Forest Hills, N. Y. Original filed, act of 1946, Principal Register, Aug. 20, 1951; amended to application, Supplemental Register, May 28, 1953, Serial No. 617,861.

HOOK-EASER

For Fish Hook Removers.
Claims use since Dec. 1, 1947.

578,367. (Class 39. Clothing.) National Shoes, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 6, 1951; amended to application, Supplemental Register, Mar. 30, 1953, Serial No. 619,679.

Fashion Seam

For Hosiery for Women and Girls.
Claims use since on or about Mar. 15, 1951.

578,368. (Class 25. Locks and Safes.) E. J. Brooks Company, Newark, N. J. Original filed, act of 1946, Principal Register, Jan. 16, 1952; amended to application, Supplemental Register, Dec. 12, 1952, Serial No. 623,644.

RED CAP

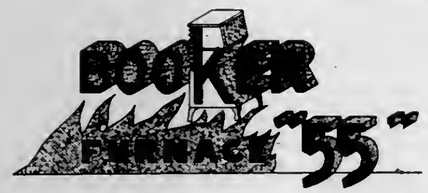
Applicant claims ownership of Registration No. 505,592.
For Coin Bag Seals Made of Base Metal.
Claims use since Oct. 31, 1951.

578,369. (Class 12. Construction Materials.) Midwest Plywood Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Feb. 19, 1952; amended to application, Supplemental Register, Mar. 2, 1953, Serial No. 625,211.

NU-PREST HARDBORD

For Wood Fibre Board.
Claims use since Jan. 15, 1952.

578,370. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Dominion Foundry Company, Winnipeg, Manitoba, Canada. Original filed, act of 1946, Principal Register, Apr. 19, 1952; amended to application, Supplemental Register, Nov. 10, 1952, Serial No. 628,349.




The shading on the drawing represents orange and black. Applicant claims ownership of Canadian Registration No. N. S. 40/174, dated Aug. 23, 1951.
For Coal Burning Furnaces.

578,371. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Globe Hoist Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, May 10, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 629,485.

FRAMELIFT

For Stationary Hydraulic Automobile Hoist.
Claims use since Apr. 21, 1952.

578,372. (Class 12. Construction Materials.) United Industries, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, May 24, 1952; amended to application, Supplemental Register, Jan. 26, 1953, Serial No. 630,245.

CHROMEBRITE

For Stainless Steel and Aluminum Moldings and Trims.
Claims use since Jan. 7, 1952.

578,373. (Class 4. Abrasives and Polishing Materials.) Chaffee Manufacturing Company, Millersport, Ohio. Original filed, act of 1946, Principal Register, July 2, 1952; amended to application, Supplemental Register, Jan. 23, 1953, Serial No. 632,075.

CHAFFEE

For Cleaning and Polishing Wax Intended for Use on Automobiles and on Household Items.
Claims use since Oct. 10, 1951.

578,374. (Class 18. Medicines and Pharmaceutical Preparations.) George E. Richter, Park Ridge, N. J. Original filed, act of 1946, Principal Register, Aug. 28, 1952; amended to application, Supplemental Register, May 26, 1953, Serial No. 634,606.

ENERGY

For Vitamin, Mineral, and Herb Preparations for Use as a Dietary Supplement.
Claims use since Oct. 19, 1944.

578,375. (Class 46. Foods and Ingredients of Foods.) Western Condensing Company, San Francisco, Calif. Original filed, act of 1946, Principal Register, Sept. 22, 1952; amended to application, Supplemental Register, Mar. 30, 1953, Serial No. 635,616.

Peebles'
M-N-C

Applicant claims ownership of Registrations Nos. 349,180, 547,694, 560,013, and others.
For Dried Whey Containing Whey Fermentation Solubles for Use as a Feed Additive for Hogs and Cattle.
Claims use since on or about June 15, 1951.



578,376. (Class 6. Chemicals and Chemical Compositions.) Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany. Filed July 31, 1952, Serial No. 641,248.

WACKER

Applicant claims ownership of German Registration No. 634,918, dated Feb. 27, 1953.
For Acetylene, Disinfectants, Essential Oils, Fluxes for Welding, Hexachlorbutadiene, Hydraulic System Fluids, Metal Carbides, Plasticizers for Use in the Industrial Arts, Preparations for Exterminating Noxious Animals and Plants and Plant Pests, Silicones, Softening Agents for Use in Varnishes and Plastics, Solvents for General Use in the Industrial Arts, Synthetic Resins in the Form of Granules, Powder and Solutions, Trichlorethylene, Vinyl Compounds, Volatile Organic Solvents, and Wetting Agents for General Use.

578,377. (Class 6. Chemicals and Chemical Compositions.) House of Twain, Inc., Chicago, Ill. Filed Mar. 9, 1953, Serial No. 643,324.

NO-BITE

For Insect Repellent in Stick Form.
Claims use since Feb. 14, 1952.

578,378. (Class 19. Vehicles.) Rangeley Boat & Canoe Co., Portland, Maine. Filed Apr. 20, 1953, Serial No. 645,590.

Rangeley

For Outboard Motor Boats and Canoes.
Claims use since Nov. 28, 1951.

**Service Marks**

578,379. (Class 103. Construction and Repair.) Max P. Wohltman, doing business as Ford-Ideal Laundry Co., Kansas City, Mo. Original filed, act of 1946, Principal Register, Apr. 30, 1951; amended to application, Supplemental Register, Nov. 10, 1952, Serial No. 613,354.



Pillow
Case
Bundle

For Laundry Service.
Claims use since Apr. 8, 1951.

578,380. (Class 105. Transportation and Storage.) Aerovias Brasil, Rio de Janeiro, Brazil, and Miami, Fla. Original filed, act of 1946, Principal Register, Sept. 21, 1951; amended to application, Supplemental Register, May 22, 1953, Serial No. 619,054.

BRAZILIAN INTERNATIONAL AIRLINES

For Airplane Passenger and Freight Transportation.
Claims use since May 20, 1951.

578,381. (Class 107. Education and Entertainment.) Maggie Wulff, doing business as Wulff Public Relations, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Nov. 4, 1952; amended to application, Supplemental Register, Apr. 24, 1953, Serial No. 637,632.

Teen Press

For Entertainment Service Rendered Through the Medium of a Radio-Broadcast Program To Discuss Teen-Age Problems.
Claims use since Nov. 27, 1951.

**Collective Mark**

578,382. (Class 1. Raw or Partly Prepared Materials.) Missouri Poultry Improvement Association, Columbia, Mo. Original filed, act of 1946, Principal Register, May 26, 1952; amended to application, Supplemental Register, Mar. 6, 1953, Serial No. 630,280.




Applicant claims ownership of Registration No. 531,595.
For Live Turkey Poults.
Claims use since on or about Jan. 15, 1952.

# TRADE-MARK REGISTRATIONS RENEWED

91,484. CHAMPION. Registered May 6, 1913. Hemmeter Cigar Company, Detroit, Mich. Re-renewed May 6, 1953, to National Cigar Corporation, Wilmington, Del., and Cincinnati, Ohio, a corporation of Delaware. Cigars. Class 17.

92,103. REPRESENTATION OF GLOBE AND BROWNIES. Registered June 17, 1913. Wm. McLeish, Appleton, Wis. Re-renewed June 17, 1953, to Appleton-Atlas Car Mover Corp., Milwaukee, Wis., a corporation of Wisconsin. Car-Movers. Class 23.

92,581. APEX. Registered July 15, 1913. Rosenberg Bros. & Co. Re-renewed July 15, 1953, to Rosenberg Bros. & Co. Inc., San Francisco, Calif., a corporation of Maryland. Raisins. Class 46.

93,739. PICTURE OF BOY. Registered Oct. 14, 1913. Meyer & Lange. Re-renewed Oct. 14, 1953, to R. C. Williams & Company, Inc., New York, N. Y., a corporation of New York. Fruit Jelly, Calf's-Foot Jelly, Bar-le-Duc Jelly, Cheese, Crabmeat, Green-Turtle Meat, Etc. Class 46.

93,885. GOURMET. Registered Oct. 21, 1913. Meyer & Lange. Re-renewed Oct. 21, 1953, to R. C. Williams & Company, Inc., New York, N. Y., a corporation of New York. Paprika, Onions, Mushrooms, Peas, Etc. Class 46.

94,057. "STAR BRAND" AND DESIGN. Registered Nov. 4, 1913. J. F. Carter Company, Portland, Maine, and Beverly, Mass. Re-renewed Nov. 4, 1953, to A. J. Tower Company, Boston, Mass., a corporation of Massachusetts. Oiled Clothing. Class 39.

301,136. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Spices, Dietetical Patent Foods, Malt Food Starches, and Sauces and Feeding Preparations, Etc. Class 46.

301,137. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Fish Hooks, Ice and Roller Skates, Tennis and Fish Nets, Christmas Tree Ornaments Such as Toy Balls, Toy Figures, Etc. Class 22.

301,138. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Apparatus for Extinguishing Fire—Namely, Portable Hand Fire Extinguishers, Etc. Class 23.

301,139. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Laundry Driers—Namely, Laundry Drying Rooms, Laundry Drying Racks, Laundry Drying Machines, and Laundry Drying Extractors. Class 24.

301,140. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Drawing Instruments, Laboratory Fittings Comprising Laboratory Glassware and Porcelain Ware and Laboratory Racks, Clamps, and Supports. Class 26.

301,141. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Jewelry for Personal Wear Made of Precious Metals and Non-Precious Metals, Etc. Class 28.

301,142. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Watches, Clocks, and Parts Thereof. Class 27.

301,143. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Tooth Brushes, Hair Brushes, Scrubbing Brushes, Etc. Class 29.

301,144. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Porcelain or Real China. Class 30.

301,145. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. House, Office, Store, Shop, Porch, and Lawn Furniture—Namely, Cabinets, Davenports, Etc. Class 32.

301,146. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Glass in All Forms, Table and Flat Glassware, Glass in Bulk, Etc. Class 33.

301,147. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Gas and Oil Lighting Apparatus, Gas, Oil, Water, Steam, and Coal Heating and Cooking Apparatus, Etc. Class 34.

301,148. "DEGUSSA." Registered Feb. 21, 1933. Deutsche Gold- & Silber- Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Cotton and Leather Driving Belts, Leather and Rubber Hose and Packing Materials—Namely, Washers Other Than Metal, Etc. Class 35.

301,178. FAWNTRA. Registered Feb. 21, 1933. Henry Pollak, Inc. Renewed Feb. 21, 1953, to Pollak Industrial Corp., New York, N. Y., a corporation of Connecticut. Women's and Children's Felt Hats, Untrimmed. Class 39.

301,200. MON ETOILE. Registered Feb. 21, 1933. Henry Pollak, Inc. Renewed Feb. 21, 1953, to Pollak Industrial Corp., New York, N. Y., a corporation of Connecticut. Women's Hats. Class 39.

301,250. "FROZEN TEPEE" ETC. AND DESIGN. Registered Feb. 21, 1933. Wm. M. Bell Company. Renewed Feb. 21, 1953, to Wm. M. Bell Company, Chicago, Ill., a firm. Ice Cream Confection. Class 46.





301,810. LUCKY STRIKE. Registered Mar. 14, 1933. The E. M. Todd Company, Incorporated, Richmond, Va., a corporation of Virginia. Renewed Mar. 14, 1953. Packing House Products—Namely, Hams and Bacon and Sausage. Class 46.

303,092. "DÉJÀ" ETC. AND DESIGN. Registered May 9, 1933. Blanche A. Baker, Wichita, Kans. Renewed May 9, 1953. Cleansing Cream, Cold Cream, and Tissue Builder Cream, Astringents, Skin Lotions, Face Powders, and Rouges. Class 51.

303,093. ALLURA. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,781. CORTARA. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,784. MAPLE BARK. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,786. PIKKETTA. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,790. TWILGA. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,791. TAMZEEN. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,792. VELFINETTE. Registered June 6, 1933. Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Renewed June 6, 1953. Woolen Piece Goods. Class 42.

303,793. VALORA. Registered June 6, 1933. Forstmann Woolen Co. Renewed June 6, 1953, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

303,855. METRO-MATIC. Registered June 13, 1933. Alemite Corporation. Renewed June 13, 1953, to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia. Lubricating Systems, Comprising Lubricant Pumps, Lubricant Apportioning Devices, and Swivels. Class 23.

303,946. "MAGNA-WHIRL." Registered June 13, 1933. The Magnavox Company. Renewed June 13, 1953, to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware. Hand and Motor Driven Mechanical Fruit Juice Extractors. Class 23.

304,729. "FORT" AND DESIGN. Registered July 18, 1933. Joseph Burnett Co., Boston, Mass. Renewed July 18, 1953, to American Home Foods, Inc., New York, N. Y., a corporation of New Jersey. Vanilla Food Flavoring Extract. Class 46.

304,834. KAIDETTE. Registered July 18, 1933. The Kitchenaid Manufacturing Company. Renewed July 18, 1953, to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio. Electrically-Driven, Beating, Treating, and Mixing Machines for Foodstuffs and Whipping, Etc. Class 21.

305,050. ZERO. Registered July 25, 1933. Standard Fuel Engineering Company, Detroit, Mich., a corporation of Michigan. Renewed July 25, 1953. Refractory Material in Plastic Form—Namely, for Use in the Formation of Furnace Hearths and for Boiler and Furnace Linings and for Repair Thereof. Class 12.

305,352. BREEZITE. Registered Aug. 15, 1933. Breeze Corporation, Inc., Newark, N. J., a corporation of New Jersey. Renewed Aug. 15, 1953. Conduits Having Incorporated Therein a Plastic Compound To Insulate the Conduit Against Electrical Emanations or Liquids, Etc. Class 21.

305,468. QUADROLUBE. Registered Aug. 15, 1933. Quaker State Oil Refining Co. Renewed Aug. 15, 1953, to Quaker State Oil Refining Corporation, Oil City, Pa., a corporation of Delaware. Lubricating Oils and Greases. Class 15.

305,675. COMBAT. Registered Aug. 22, 1933. Winter Haven Fruit Sales Corporation. Renewed Aug. 22, 1953, to Wm. G. Roe & Sons, Winter Haven, Fla., a firm. Fresh Citrus Fruits. Class 46.

306,002. "ENSIGN" ETC. Registered Aug. 29, 1933. Rosenberg Bros. & Co. Renewed Aug. 29, 1953, to Rosenberg Bros. & Co. Inc., San Francisco, Calif., a corporation of Maryland. Prunes, Raisins, Dried Fruits, Honey, and Evaporated Apples. Class 46.

306,121. HIWAY. Registered Sept. 5, 1933. Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey. Renewed Sept. 5, 1953. Brake Linings and Clutch Facings. Class 35.

306,297. LOAD LIFTER. Registered Sept. 12, 1933. Shaw-Box Crane & Hoist Company, Inc. Renewed Sept. 12, 1953, to Manning, Maxwell & Moore, Inc., Muskegon, Mich., a corporation of New Jersey. Cranes, Hoists, Railway Drop Pit Tables, Railway Transfer Tables, Cable Reels and Hydraulic Brakes. Class 23.

306,426. "J H & S BRISTOL" ETC. AND DESIGN. Registered Sept. 19, 1933. John Harvey & Sons, Limited, Bristol, England, a limited liability company registered under the laws of Great Britain. Renewed Sept. 19, 1953. Sherry Wine. Class 47.

306,427. MEISTER BRÄU. Registered Sept. 19, 1933. Peter Hand Company, doing business as Peter Hand Brewery Co. Renewed Sept. 19, 1953, to Peter Hand Brewery Company, Chicago, Ill., a corporation of Illinois. Malt Beverages With Not More Than the Legal Alcoholic Content. Class 48.

306,494. "COAL KOTE" AND DESIGN. Registered Sept. 19, 1933. Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey. Renewed Sept. 19, 1953. Oil To Be Sprayed on Coal for the Purpose of Laying Dust. Class 15.

306,496. "BLUE SUNOCO" ETC. AND DESIGN. Registered Sept. 19, 1933. Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey. Renewed Sept. 19, 1953. Gasoline. Class 15.

306,505. "LEECH" ETC. Registered Sept. 19, 1933. G. C. Hilton, doing business as Leech Products Company, Hutchinson, Kans. Renewed Sept. 19, 1953. Liquid or Fluid Adhesive Cement or Glue for Mechanical and Household Uses. Class 5.

306,560. RE-GLO. Registered Sept. 26, 1933. Arthur R. Earnshaw, doing business as Quik Manufacturing Company. Renewed Sept. 26, 1953, to Silver Suds Company, Philadelphia, Pa., a corporation of Pennsylvania. Scouring Compound. Class 52.

306,930. "FAUST" AND DESIGN LINED FOR RED. Registered Oct. 3, 1933. Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri. Renewed Oct. 3, 1953. Malt Beverage With Not More Than the Legal Alcoholic Content. Class 48.

306,981. "ROYAL G" AND DIAMOND DESIGN. Registered Oct. 10, 1933. Gottesman & Company, Incorporated, New York, N. Y., a corporation of New York. Renewed Oct. 10, 1953. Wood Pulp. Class 1.

307,043. URADO. Registered Oct. 10, 1933. Urado Products Company, Salt Lake City, Utah, a corporation of Utah. Renewed Oct. 10, 1953. Medicinal Oils of a Petroleum Base for Hay Fever, Eczema, Athlete's Foot, Ring-Worm, Cuts and Bruises, and Other Skin Diseases. Class 18.

307,334. INCA. Registered Oct. 24, 1933. Beacon Manufacturing Company, New Bedford, Mass. Renewed Oct. 24, 1953, to Beacon Manufacturing Company, Swannanoa, N. C., a corporation of Massachusetts. Blankets Made of Cotton or Cotton and Wool. Class 42.

307,510. "WHITE EAGLE" AND DESIGN. Registered Oct. 24, 1933. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Oct. 24, 1953, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soap. Class 52.

307,551. BABIJUICE. Registered Oct. 31, 1933. S. Albertson Company, Inc., Boston, Mass., a corporation of Massachusetts. Renewed Oct. 31, 1953. Oranges. Class 46.

307,865. GLOAMA. Registered Nov. 7, 1933. Binney & Smith Company, New York, N. Y., a corporation of New Jersey. Renewed Nov. 7, 1953. Tempera Colors. Class 16.

307,867. CEROLA. Registered Nov. 7, 1933. Binney & Smith Company, New York, N. Y., a corporation of New Jersey. Renewed Nov. 7, 1953. Wax Crayons. Class 37.

# TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

410,350. ACCELO. Registered Nov. 21, 1944. Infilco Incorporated, Chicago, Ill. Filters, Filter Distributors, Etc. Class 31. Corrected as follows: In the statement, the description of goods with the exception of "filter distributors," should be deleted.

564,951. COUNTRYSIDE CASUALS. Registered Oct. 7, 1952. Domphies, Inc., New York, N. Y. Women's Sport Shoes. Class 39. Corrected as follows: In the certificate, line 3; and in the statement, line 2, "New York" should be *Delaware*.

# TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

## CLASS 5

### ADHESIVES

Reg. No. 301,822. Registered Mar. 14, 1933. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Republished by registrant.

PROTEK

For Paste Used for Pasting Paper to Enameled and the Like Surfaces.
Claims use since Mar. 15, 1932.

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 430,362. Registered June 10, 1947. Golden Bear Oil Co., Los Angeles, Calif., a corporation of California. Republished by registrant.

CALIFLUX

For Chemical Preparation Having Primary Use as a Rubber Plasticizer but not Limited Thereto in Having a General Use in the Industrial and Chemical Arts.
Claims use since Jan. 15, 1945.

## CLASS 12

### CONSTRUCTION MATERIALS

Reg. No. 300,366. Registered Jan. 17, 1933. Keasbey & Mattison Company, Ambler, Pa., a corporation of Pennsylvania. Republished by registrant.

INDUSTAL

For Asbestos-Cement Product Made in Corrugated Sheet Form Especially Adapted for Roofings, Sidings, and Partitions.
Claims use since about April 1932.

## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 302,411. Registered Apr. 18, 1933. The Skoot Company, Hamilton and Dayton, Ohio. Republished by James B. Hughes, doing business as The Skoot Company, Hamilton, Ohio.

SKOOT

For Liniment.
Claims use since Sept. 1, 1932.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 299,413. Registered Dec. 6, 1932. Witherbee Storage Battery Co. Inc., Belleville, N. J. Republished by Price Battery Corporation, doing business as Witherbee Storage Battery Co., Hamburg, Pa., a corporation of Pennsylvania.

Witherbee

For Storage Batteries.
Claims use since July 1, 1927.



## CLASS 31

### FILTERS AND REFRIGERATORS

Reg. No. 310,844. Registered Mar. 13, 1934. The Hecht Co., Washington, D. C., a corporation of Maryland. Republished by registrant.

SANICOLD

For Household and Store Refrigerators for the Preservation of Foodstuffs.
Claims use since Mar. 11, 1917.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 303,273. Registered May 16, 1933. Kohler Co., Kohler, Wis., a corporation of Wisconsin. Republished by registrant.

KOHLER

For Heating Boilers and Radiators.
Claims use since Mar. 30, 1931.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 92,905. Registered Aug. 3, 1913. (Classified in Class 50.) New Process Cork Company, New York, N. Y. Republished by Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York. See this number in Class 50 for goods and mark.
Claims use since Oct. 24, 1912.

## CLASS 37

### PAPER AND STATIONERY

Reg. No. 305,672. Registered Aug. 22, 1933. The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin. Republished by registrant.

Parkette

For Fountain Pens, Mechanical Pencils, and Desk Sets.
Claims use since Jan. 6, 1933.

## CLASS 39

### CLOTHING

Reg. No. 355,117. Registered Mar. 8, 1938. Supowitz Brothers, Pittsburgh, Pa., a firm. Republished by registrant.



The descriptive words "Shoes for Men" are disclaimed apart from the mark as shown.
For Men's Shoes Made of Leather.
Claims use since Feb. 1, 1937.

Reg. No. 410,316. Registered Nov. 21, 1944. Hillsboro Hosiery Mills, Inc., Hillsboro, N. H., a corporation of New Hampshire. Republished by registrant.




For Hosiery and Underwear.
Claims use since 1894.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Reg. No. 203,637. Registered Sept. 22, 1925. Gilt Edge Candy Co., Akron, Ohio. Republished by Spangler Candy Company, Bryan, Ohio, a corporation of Ohio.

DUM-DUMS

For Lollipops.
Claims use since Feb. 1, 1924.

Reg. No. 301,170. Registered Feb. 21, 1933. S. & S. Cone Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

MILK-E-

The Pastree Cone

The words "The Pastry Cone" and "Milk" are disclaimed apart from the mark as shown.
For Ice Cream Cones.
Claims use since Jan. 13, 1932.

Reg. No. 301,329. Registered Feb. 28, 1933. Leadway Stores Corporation, Wilmington, Del., a corporation of Delaware. Republished by registrant, present address San Francisco, Calif.

LEADWAY

For Canned Fruits.
Claims use since about Aug. 25, 1932.

Reg. No. 305,918. Registered Aug. 29, 1933. Gibbs & Company, Incorporated, Baltimore, Md., a corporation of Maryland. Republished by registrant.

**GIBBS**

For Canned Vegetables, Canned Fruits, Canned Hominy, Canned Sauerkraut, Canned Berries, Canned Spaghetti, Canned Spaghetti With Tomato Sauce, Canned Soups, Canned Pork and Beans, Canned Pork and Beans With Tomato Sauce, Canned Oysters, Oyster Broth, Seasoning and Flour for Oyster Stew, Tomato Juice for Food Purposes, Tomato Paste, Tomato Catsup, and Apple Pectin Jelly.

Claims use since Feb. 10, 1895.

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Reg. No 331,427. Registered Jan. 7, 1936. The Foster Canning Co., Inc., doing business as Glendale Canning Co., Glendale, N. Y., a corporation of New Jersey. Republished by registrant, present address Farmingdale, N. J.




For Canned Food for Dogs, Cats, and Carnivorous Animals.

Claims use since May 18, 1934.

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Reg. No. 339,934. Registered Oct. 27, 1936. Foster Canning Co., Inc., doing business as Glendale Canning Co., Glendale, N. Y., a corporation of New York. Republished by registrant, present address Farmingdale, N. J.

**RED CHIEF**

For Canned Food for Dogs and Cats and Other Carnivorous Animals.

Claims use since Feb. 27, 1935.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Reg. No. 303,257. Registered May 16, 1933. Slater, Rodger & Company, Limited, Glasgow, Scotland, a company organised under the laws of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.



For Whisky.

Claims use since December 1897.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 92,905. Registered Aug. 5, 1913. New Process Cork Company, New York, N. Y. Republished by Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York.

*Nepro*

For Cork Disks and Washers.

Claims use since Oct. 24, 1912.

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## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Reg. No. 117,888. Registered Aug. 7, 1917. Florence N. Lewis, New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

**AMORETTA**

For Face and Massage Creams.

Claims use since Feb. 1, 1915.

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Reg. No. 302,456. Registered Apr. 18, 1933. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

**TUBEROSE d'Elizabeth**

The word "Tuberose" is disclaimed apart from the mark as shown.

For Perfumes and Perfumery.

Claims use since Sept. 26, 1932.

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Reg. No. 302,900. Registered May 2, 1933. Elizabeth Arden, Inc., New York, N. Y. Republished by Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware.

*Elizabeth*

For Perfumes and Perfumery, Cleansing Cream, Face and Hand Lotion, Face Powder, and Dentifrice.

Claims use since January 1905.

# REISSUES

## AUGUST 4, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

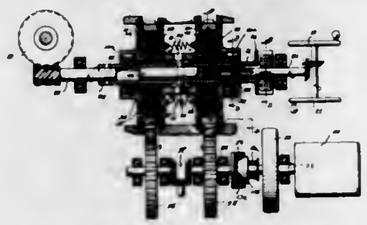
### 23,692

### MECHANICAL CLUTCH FOLLOW-UP DEVICE

**Harry F. Vickers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan**

**Original No. 2,311,010, dated February 16, 1943, Serial No. 288,495, August 5, 1939. Application for reissue April 28, 1953, Serial No. 351,769**

**9 Claims. (Cl. 74—388)**



3. In a follow-up device, an operating shaft, a constantly operated power means, oppositely rotating means driven by said power means, clutch means arranged to connect one or the other of said oppositely rotating means to said operating shaft, and means to cause engagement of one or the other of said clutch means comprising a hand operated shaft, a second shaft connected to said operating shaft and telescoping with said hand operated shaft, means connecting said hand operated shaft and said telescoping shaft whereby a relative rotation will result in an axial movement between said shafts, clutch engaging means and means operably connecting said hand operated and said telescoping shafts with said clutch engaging means whereby axial movement between said shafts will result in engagement of one of said clutches.

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### 23,693

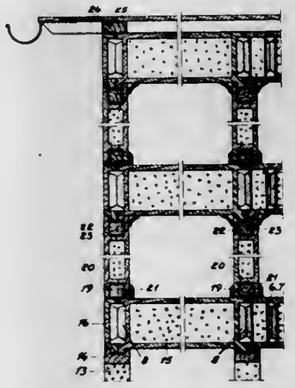
### BOX BEAM CONSTRUCTION FOR FLOORS

**Knut Lennart Bergvall and Ernst Erik Dahlberg, Stockholm, Sweden**

**Original No. 2,579,446, dated December 18, 1951, Serial No. 590,530, April 27, 1945. Application for reissue January 28, 1953, Serial No. 333,854**

**10 Claims. (Cl. 20—2)**

1. In a building, a room having walls and a wooden floor construction comprising a plurality of interengaged parallel, elongated box-beam elongated box-beam elements of tubular configuration in cross section arranged in side by side relationship, each element having a width substantially equal to the thickness of the floor and a length at least equal to one horizontal dimension of the room bounded by said walls, and each element comprising spaced parallel flanges and spaced, parallel webs arranged between said flanges and connected thereto, said flanges forming upper and lower members in the construction, the upper member forming the flooring in the room above the floor construction and the lower member forming the ceiling in the room below the construction, the flanges of each box-beam element having their edges tongued and grooved and interengaged with adjacent similar members in the construction to form said floor and ceiling,



said tongued and grooved portions being provided with corresponding dowels and sockets; respectively, engaging adjacent like members to stabilize the construction.

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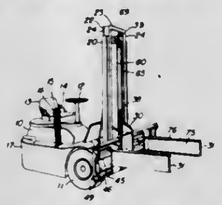
### 23,694

### MATERIAL HANDLING DEVICE FOR INDUSTRIAL TRUCKS

**Leslie G. Ehmann, Portland, Oreg., assignor to Hyster Company, Portland, Oreg., a corporation of Oregon**

**Original No. 2,571,550, dated October 16, 1951, Serial No. 32,429, June 11, 1948. Application for reissue September 13, 1952, Serial No. 309,571**

**20 Claims. (Cl. 214—653)**



1. In a lift truck, a lift carriage, a pair of load arms on opposite sides of the carriage rigidly mounted on the outer ends of oppositely directed elongated slides, horizontal guides on said lift carriage supporting said slides for extension and retraction of said arms laterally of the truck, and a pair of horizontal fluid pressure cylinder and piston rod units disposed one above the other in overlapping relation, each of said units being connected between one of said load arms and the opposite side of the carriage, said cylinders each having a length approximately equal to

three quarters of the width of the carriage to draw said arms together to a minimum spacing approximately equal to half the carriage width and to extend said arms to a maximum spacing approximately equal to twice the carriage width.

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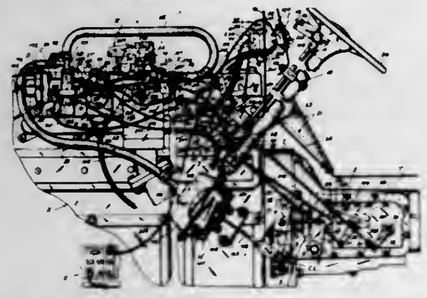
23,695

**AUTOMOTIVE POWER-TRANSMITTING SYSTEM AND MECHANISM**

**Glenn T. Randol, Mountain Lake Park, Md.**

**Original No. 2,597,840, dated May 20, 1952, Serial No. 619,365, September 29, 1945. Application for reissue July 31, 1952, Serial No. 302,025**

**32 Claims. (Cl. 192—.052)**



1. In a vehicular drive system including a torque-producing internal-combustion engine having an accelerator mechanism and a clutch provided with friction elements relatively movable into and out of engaging contact for transmitting torque *when engaged* from the engine to an associated variable gear ratio transmission; the improvements which comprise a power device operably connected to one of the movable elements of the clutch, *a source of power to operatively energize said power device*, control mechanism for said power device including a connection with the accelerator mechanism for causing the power device to be energized and disengage the clutch when the accelerator mechanism is released, means responsive to the degree of energization of the power device, and means controlled by said last-named means and the actuation of the accelerator mechanism from released condition for controlling the rate of re-engagement of the clutch to a predetermined point in the relative movement of its movable elements during re-engagement, and means controlled by said responsive means independently of movement of the accelerator mechanism for controlling the rate of re-engagement of the movable clutch elements after said predetermined point is reached.

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23,696

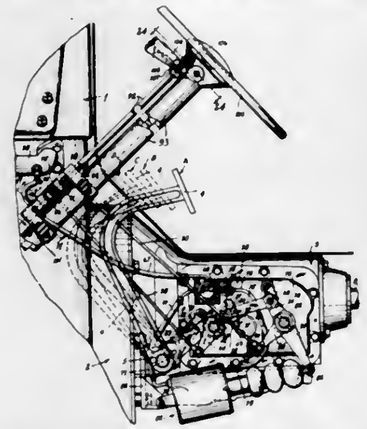
**AUTOMOTIVE POWER DRIVE CONTROL SYSTEM AND MECHANISM**

**Glenn T. Randol, Mountain Lake Park, Md.**

**Original No. 2,604,963, dated July 29, 1952, Serial No. 562,075, November 6, 1944, which is a continuation of Serial No. 404,295, July 28, 1941. Application for reissue October 11, 1952, Serial No. 314,417**

**93 Claims. (Cl. 192—3.5)**

1. In an automotive power-transmitting system comprising an engine, a friction clutch, and a change-speed device having enmeshable drive-connections for establishing three different forward speed drives and a reverse speed drive, and actuatable shifting means therefor: means including a manually-controlled member movable from a normally inoperative position for causing said shifting means to establish one of said speed drives by the manual movement only of said member, and other means comprising a pedally-controlled member and a fluid power operated means for causing said one speed drive to be



rendered inoperative and the shifting means actuated so that one of the two remaining speed drives is rendered operative without return movement of said manually-controlled member to any position occupied prior to causing said one speed to be inoperative, said other means also embodying means for alternately causing the fluid power means to establish said two remaining speed drives by successive movements of said pedally-controlled member only after the said shifting means has been actuated to cause one of the two remaining speed drives to be operative.

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23,697

**SPONGE RUBBER COMPOSITION**

**William R. Stauffer, Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio**

**No Drawing. Original No. 2,567,950, dated September 18, 1951, Serial No. 32,717, June 12, 1948. Application for reissue September 8, 1952, Serial No. 308,500**

**3 Claims. (Cl. 260—2.5)**

1. A composition for producing sponge rubber comprising an aqueous dispersion of a rubber selected from the group of natural rubber, polychloroprene latex, polyvinyl chloride latex, polybutadiene latices and mixtures thereof, a small amount of a vegetable oil as a plasticizer, from substantially 1 to 2.3 percent of a heat sensitizer selected from the group consisting of sodium silico fluoride and calcium formate, impregnated with nitrous oxide at a pressure of from 80 to 250 lbs., said composition being maintained at approximately 40 to 41° F. and having the property to expand upon release from a container into a rubber foam.

# PLANT PATENTS

## GRANTED AUGUST 4, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,208

**AVOCADO TREE**

**Herbert L. Gillespie, San Gabriel, Calif.**

**Application July 30, 1951, Serial No. 239,210**

**1 Claim. (Cl. 47—62)**

A variety of avocado tree substantially as disclosed, characterized by substantially flat mature foliage, a prolonged flowering period and the ability to bear mature, green, pyriform fruit during the entire calendar year.

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1,209

**ROSE PLANT**

**Robert V. Lindquist, Hemet, Calif., assignor to Hemet Wholesale Nursery, Hemet, Calif., a partnership**

**Application July 18, 1952, Serial No. 299,781**

**1 Claim. (Cl. 47—61)**

A new and distinct variety of rose plant of the hybrid polyantha class, substantially as herein shown and described, characterized particularly as to novelty by its compact, bushy, well-formed and free-blooming habits of growth, by its abundance of glossy, leathery, winter-hardy and disease-resistant foliage, by the well-formed, symmetrical and high-centered form of its blooms from the bud stage through the full-open stage, by the Rose Pink to Neyron Rose general color tonality of its blooms, shading to Rose Opal as the blooms age, and by the relatively strong and spicy fragrance of its blooms.

# PATENTS

GRANTED AUGUST 4, 1953

## GENERAL AND MECHANICAL

**2,647,259**
**CAP**
**Dorothy Dear Hutton, New York, N. Y.**
**Application December 20, 1951, Serial No. 262,525**
**3 Claims. (Cl. 2—68)**

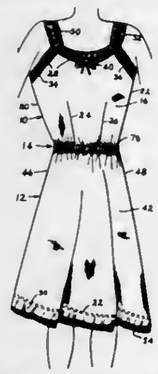


1. A cap having a hood portion of limp, flexible material and of such larger size than the head of a person that it may be applied to the head without stretching and derangement of the hair, and also of such size that when placed on the head the lower edge portion at the back will lie against the back of the head at the base thereof and the front side edges will lie forward of the ears, and strip members of elastic material extending forwardly from the lower portion of the front side edges of the cap, said strip members being so positioned with respect to the side edges of the hood portion at the front thereof that they may be stretched and drawn forwardly and upwardly over the sides of the face and the forehead, and over the said edges of the hood portion and fastened together in such position, thereby drawing the lower rear part of the hood portion against the base of the head at the back, the said edges of the hood portion being smooth on the inside to lie smoothly against the forehead and sides of the face when the strip members are stretched and held in place over them, to thereby more effectively effect a seal at the edges of the cap.

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**2,647,260**
**FEMALE UNDERGARMENT**
**Sandor Kaufman, Yonkers, N. Y.**
**Application May 21, 1948, Serial No. 28,311**
**2 Claims. (Cl. 2—76)**

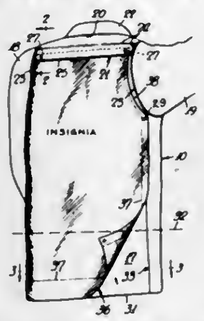
1. A female undergarment in the nature of a slip and the like, comprising a waist portion having a lower marginal area normally greater in circumferential extent than the waist of the wearer which it is to encircle, a skirt portion having an upper marginal area normally greater in circumferential extent that the waist of the wearer which it is to encircle, first stitching means directly interconnecting said lower marginal area of said waist portion with said upper marginal area of said skirt portion, and a resilient band overlying said first stitching means and secured at an upper marginal portion to said waist portion of said garment and secured at a lower marginal portion to said skirt portion of said garment, and in which said resilient band is formed of resilient material overlying said first stitching means and secured at its upper margin to said waist portion only of said garment and secured at its lower margin to both



said waist and skirt portions of said garment by direct stitching therethrough.

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**2,647,261**
**SPORT SHIRT HAVING DETACHABLE INSIGNIA PANEL**
**Henry Rassner, Union City, N. J., assignor to Sidney Bogad, North Bergen, N. J.**
**Application May 13, 1950, Serial No. 161,792**
**3 Claims. (Cl. 2—115)**

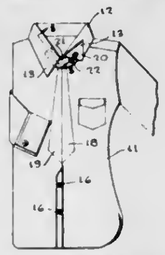



1. An improved sports shirt consisting of a permanently attached front, back, laterally extending sleeves, and a yoke member extending across the top portion of the back thereof which has at least a free lower depending edge, a series of spaced fastening members mounted on the underside of said yoke along said free edge thereof, said shirt having spaced fastening members mounted on the back thereof adjacent each of the sleeves, said shirt having spaced fastening members mounted adjacent the lower edge of said back, and a detachable insignia carrying member having a plurality of fastening members disposed at spaced intervals so as to engage cooperatively the fastening members of said shirt to mount detachably the same thereover.





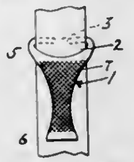
**2,647,262**
**COMBINATION SHIRT AND TIE**
**John M. Crothers, Lambert, Miss.**
**Application September 12, 1950, Serial No. 184,495**
**1 Claim. (Cl. 2—116)**



A garment comprising a shirt having a collar of the type provided with depending end flaps at the front of the collar, a slide fastener provided at the front of the shirt and arranged to detachably fasten the front edges of the shirt together in abutting relationship, the front of the shirt being provided with colored patches at its front marginal portions on opposite sides of said slide fastener to simulate the depending draped portion of a knotted necktie when said edges are in abutting relationship, an arcuate colored flexible band, respective snap fastener elements on the end portions of said band, additional respective snap fastener elements on the undersides of said end flaps and being lockingly engageable with the first-mentioned snap fastener elements, said band being arranged to completely cover and overlie the ends of said collar when connected to said depending end flaps and being spaced outwardly from said ends, whereby said band is adapted to simulate the knot of the necktie.

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**2,647,263**
**TIE HOLDER**
**Francis F. Gurzny, Syracuse, N. Y.**
**Application May 4, 1949, Serial No. 91,327**
**1 Claim. (Cl. 2—153)**



For use in combination with a four-in-hand tie having first and second end portions, a tie holder comprising a single planar member substantially T-shaped in outline and including a head portion and a depending leg portion, said head portion being provided with a transversely extending arcuate opening for receiving the first end portion of the tie and imparting an arching effect to the same, said opening being partially bounded by a pair of opposed arms integral with said head portion and having spaced opposed ends to facilitate insertion of the first end portion of the tie within said opening, the second end of the tie being adapted to be looped about said leg portion to form a knot, said leg portion having concave side edges and a reduced central portion with the lower end of the leg being of a lesser width than the upper end thereof to form a knot reinforcing member of a configuration to facilitate the formation of a neat and attractive knot, opposite faces of said leg portion have integrally formed roughened surfaces engageable with the first end portion and the knot portion of the tie to resist sliding of the knot.

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**2,647,264**
**CAP**
**Dorothy Dear Hutton, New York, N. Y.**
**Application December 20, 1951, Serial No. 262,526**
**1 Claim. (Cl. 2—195)**



A cap having a hood portion made of limp, flexible material having downwardly and forwardly-extending portions which, when the cap is being worn, lie at the sides of the wearer's face, forward of the ears, said hood portion also having a slit therein extending from a point near the top of the cap down to its periphery at a point adjacent the lower forward edge of said forwardly-extending portions, the material at the sides of the slit being provided with stringer elements of a slide fastener, a slider cooperating with said stringer elements which may be moved from the top down to the bottom of the slit to draw the material at the sides of the slit together to cause the cap to enclose the head, a flap of flexible material secured to the inner side of the hood portion adjacent one edge of the slit and in a position to overlie the slide fastener when the edges defining the slit are drawn together, and a chin strap for pulling the forwardly-extending portions downwardly and towards one another to hold the cap on a wearer's head and to hold the edges thereof tightly against portions of the wearer's head to effect a seal at the edges of the cap, one end of said chin strap, when the cap is being worn, extending from a point adjacent the lower end of the slit, whereby the direction of the force exerted by the chin strap when the edges defining the slit are pulled together is substantially in alignment with the slit so that the effectiveness of any forces exerted by the lower edge of the hood portion which tend to open the slide fastener is lessened.

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**2,647,265**
**HOSE SUPPORTER**
**Nathan Levenson, Hartford, Conn.**
**Application October 4, 1950, Serial No. 188,428**
**2 Claims. (Cl. 2—303)**

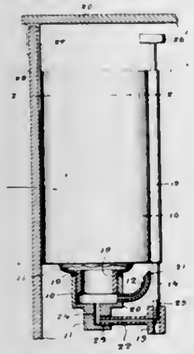


1. A hose supporter comprising an upright member having a slot adjacent the upper end

thereof, an element on the upright at the lower end thereof to rest on the insole of the shoe, a clip for detachably holding the top of the stocking, a stud on the clip slidably received in the slot, and a button-like element on said stud to hold the clip in position relative to the slot, said button-like element bearing at the side of the upright next the limb of the wearer, said clip comprising two relatively movable parts both at the other side of the upright.

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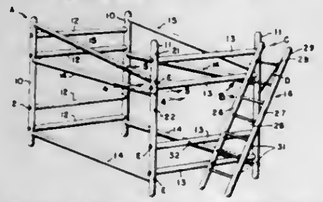
**2,647,266**
**FLUSH TANK DISINFECTANT DISPENSER**
**Antone Nunes Vierra, Honolulu, Territory of Hawaii**
**Application April 5, 1950, Serial No. 154,100**
**3 Claims. (Cl. 4—227)**



2. In a flush tank disinfectant dispenser, the combination which comprises a container having a threaded neck extended from the lower end thereof, a cap having a threaded inner surface receiving the threaded neck of the container, a vent tube extended upwardly from one side of the cap from a point thereon below the threaded neck of the container, said cap having a boss extended downwardly therefrom with a threaded opening in one side, a valve having a threaded sleeve extending at right angles thereto and said sleeve is provided with a threaded end that is positioned in the threaded opening in the side of the boss, said container having a tube on one side thereof, and said sleeve positions said valve so that a valve stem extended from the valve will extend through the tube on the side of the container to a point positioned beyond the upper end of the container whereby the valve is adjusted from a point positioned above the upper end of the container.

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**2,647,267**
**KNOCKDOWN BUNK BED**
**Ira J. McLaughlin, Manistique, Mich.**
**Application June 5, 1951, Serial No. 229,996**
**4 Claims. (Cl. 5—9)**



1. A bunk bed including spaced-apart corner head and foot posts each having a lower end face, end rails joining like corner posts, side rails joining opposite corner head and foot posts, and combined brace and ladder means including ladder rungs and a ladder rail with said ladder rail extending diagonally from one corner post toward the like corner post and tightly against an adjacent end rail and having a lower end face with all of said faces in substantially the same horizontal plane; and means rigidly securing said ladder rail to said one corner post and to said end rail with the longitudinal axes of said rungs extending in substantially the same direction as said side rails.

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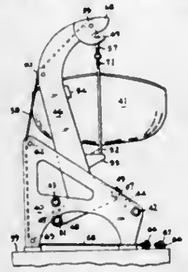
**2,647,268**
**ROCKING SUPPORT**
**Jason D. Lee, Salem, Oreg.**
**Application August 20, 1951, Serial No. 242,720**
**5 Claims. (Cl. 5—104)**



5. In combination with a baby's crib having supporting members at opposite ends of the crib, a pair of resilient floor contacting supports attached to one of said supporting members at one end of the crib, each of said supports comprising an annular base, a leg projecting obliquely upwardly therefrom, a second leg depending from the upper end of the first leg towards but spaced from the base and terminating in an upwardly projecting prong engaging the supporting member, whereby said one end of the crib may be moved in a reciprocal lateral direction to impart a rocking motion thereto.

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**2,647,269**
**BOAT DAVIT**
**Klaus L. Cappel, San Francisco, Calif.**
**Application January 30, 1948, Serial No. 5,369**
**8 Claims. (Cl. 9—38)**

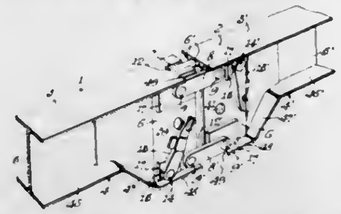


1. A gravity type davit unit for launching a boat from the deck of a ship, comprising a frame for mounting on such ship, a pair of pivot pins mounted in parallel relationship on said frame, a pair of links, each rotatably mounted on one of said pins, a davit arm for carrying a boat, means pivotally securing said davit arm at one end to said links, with its boat suspending end at all times outboard of the instantaneous point of intersection of the longitudinal axes of said links, said pair of links constituting the only means of connection between said arm and said frame, and the additive lengths of said pair of links being less than the distance between their points of attachment to said frame, and means for removably suspending a boat from said arm in the inboard position thereof.



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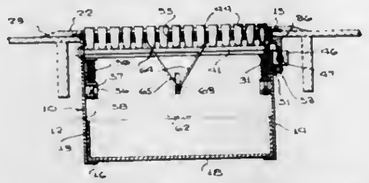
**2,647,270**
**BALK CONNECTOR**
**Lester P. Frost, Placerville, Calif.**
**Application January 7, 1949, Serial No. 69,767**
**15 Claims. (Cl. 14—13)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A structural assembly for bridges, comprising the combination with a series of balk-beams connected in end-to-end relation to form a continuous balk structure, of connecting means movably mounted on one end of one of the beams, a recess in an adjacent end of an adjacent beam receiving the connecting means, a pivotal mounting for the connecting means secured to the beam enabling the connecting means to be rotated between connecting and inactive positions, and locking instrumentalities removably mounted on the beams and extending between adjacent beams and having spaced parallel pins extending through aligned apertures in adjacent ends of the adjacent beams and through the ends of the connecting means received therein, thereby releasably locking the beams together.

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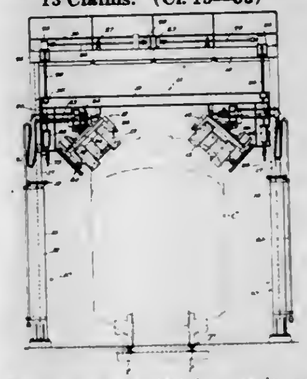
**2,647,271**
**MECHANICAL FLOOR MAT**
**Raymond H. Ryzenga, Holland, Mich.**
**Application July 18, 1952, Serial No. 299,558**
**4 Claims. (Cl. 15—37)**



1. A mechanical floor mat comprising a housing adapted to be mounted in an opening in a building floor and having spaced apart and substantially parallel end members and spaced apart and substantially parallel side members provided with apertures spaced apart longitudinally thereof, bearings disposed one in each of said apertures, arbors disposed one in each bearing in one of said side members and each having a sector gear at the outer side and a recessed semi-cylindrical formation at the inner side of said one side member, shafts extending transversely of said frame and each having one end received in a corresponding bearing in the other of said side members and its other end secured in the recessed formation of a corresponding arbor carried by said one side member, bristle tufts projecting radially from said shafts at spaced apart locations therealong, a rack bar disposed along the outer side of said one side member and having teeth thereon meshing with the teeth of said sector gears, a motor disposed adjacent said frame, means connecting said motor to said rack bar and imparting reciprocating movement to the latter when said motor is energized, a grid disposed above said shaft and having openings therein receiving said bristle tufts, springs supporting said grid from said housing and effective to permit a limited downward movement of said grid when the latter is subjected to the weight of a person thereon, and an energizing circuit for said motor including a switch disposed adjacent said grid and closed by the latter to energize said motor when said grid is subjected to the weight of a person thereon.

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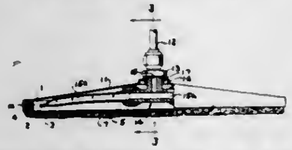
**2,647,272**
**APPARATUS ADAPTED FOR USE IN WASHING EAVES OF RAILWAY AND OTHER VEHICLES AND EMBODYING ONE OR MORE ROTARY POWER-DRIVEN BRUSHES MOUNTED TO SWING BODILY UP AND DOWN AND ALSO TO TILT**
**Louis D. Holmes, Blue Island, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois**
**Application September 16, 1948, Serial No. 49,586**
**13 Claims. (Cl. 15—53)**



1. An apparatus adapted for use in connection with washing of the eaves of the roof of a vehicle as the latter is propelled on a runway past it and comprising a rigid upstanding supporting structure arranged in straddled relation with the runway and embodying a pair of standards of greater height than the vehicle, a horizontally elongated carriage positioned so as to overlie the vehicle and extend transversely of the runway and having means between its ends and the upper portions of the standards whereby it is mounted to slide vertically to a limited extent, reversible power operated means mounted for the most part on the supporting structure and operative when driven in one direction to raise the carriage and when driven in the reverse direction to lower the carriage, a pair of elongated rotary brushes positioned adjacent the ends of the carriage respectively and inclined upwards and inwards in a direction crosswise of the runway, and individual mounting frames for the brushes provided with power means for driving said brushes and having pivotal means between them and the ends of the carriage whereby they are supported to raise and lower with said carriage and also to swing bodily and independently of one another upwards and

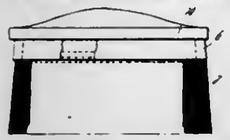
downwards about horizontal axes that extend transversely of the runway and are laterally offset with respect to the brush axes, said brushes being adapted upon lowering of the carriage and propulsion of the vehicle under them yieldingly to engage the eaves of the vehicle roof.

2,647,273
**LIQUID APPLICATOR**
**Pennie S. Eagle, Detroit, Mich.**
**Application November 2, 1949, Serial No. 125,008**
**1 Claim. (Cl. 15—130)**



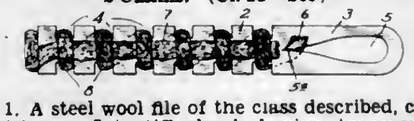
In a device for applying liquid to a surface, a hollow open ended body having upright side walls and a laterally extending peripheral flange at its lower end, an apertured plate secured over the lower open end of said body, an apertured rubber sheet bearing against the undersurface of said plate with portions thereof extending around said flange and bearing against the side walls of said body throughout their height, a foraminous rubber sheet bearing against the undersurface of said first sheet with portions thereof extending upwardly and bearing against outer surface portions of said first sheet relative to the side walls of said body throughout their height, a rubber ring extending around said side walls above said flange and retainingly bearing against corresponding outer side wall portions of said foraminous sheet, and a centrally apertured manipulatable cover secured over the open end of said body and having a depending peripheral flange retainingly engaging outer portions of said rubber ring and portions of said foraminous sheet down to the bottom of said peripheral flange.

2,647,274
**BRUSH**
**James Petrone, Westfield, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts**
**Application May 20, 1948, Serial No. 28,164**
**1 Claim. (Cl. 15—159)**



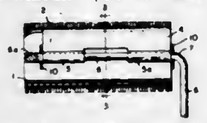
A unitary brush construction comprising in combination, an elongated unitary rectangular body member formed to have an elongated manually engageable portion on the upper side thereof of less length and width than said body and a bristle structure supporting portion depending from the underside thereof, said supporting portion being of relatively less longitudinal length and transverse width than said body member and forming with the underside thereof a continuous horizontal ledge extending outwardly from the upper side of the supporting portion to outer vertical longitudinal side and transverse end edges of the body member, a bristle structure extending around the longitudinal sides and transverse ends of said supporting portion and secured thereto with an upper edge portion thereof below and against said ledge and spaced inwardly of the longitudinal side and end edges of the said body member, said bristle structure including an elongated strip of flexible bristle supporting material doubled upon itself longitudinally forming double plies and bristles doubled upon themselves between and secured to said plies and having outer free end portions extending transversely from said strip and downwardly from said supporting portion.

2,647,275
**HOLDER FOR STEEL WOOL**
**Paul F. Schenot, Castle Shannon, Pa.**
**Application June 20, 1950, Serial No. 169,263**
**2 Claims. (Cl. 15—209)**



1. A steel wool file of the class described, comprising a flat stiff shank having transversely aligned notches in the side edges thereof, a handle at one end having an elongated hole cut therein defining an acute vertex near the shank, a replaceable cord of steel wool extending down one surface of the shank and then wound through the notches back around the shank over the longitudinally extending portion of the steel wool, and said cord being secured to the shank by forcing the free end of the cord in the vertex of the hole in said handle portion.

2,647,276
**SELF-EXPANDING PAINTING ROLLER WITH DETACHABLE COVERING SLEEVE**
**Earl E. Thomas, Detroit, and Standly T. Coughlan, Dearborn, Mich., assignors to Thomas Roller Painting Equipment Corporation, a corporation of Michigan**
**Application March 22, 1947, Serial No. 736,576**
**1 Claim. (Cl. 15—230)**

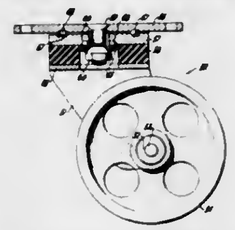


In an appliance for painting and like operations, a hollow roller and a fabric sleeve embracing such roller, the roller being formed of a resilient sheet of material with margins separatively stressed by resiliency of the sheet, whereby said roller firmly engages the sleeve, the roller being formed with an arm extending to the roller axis from one of said margins and elongated along such margin and formed with a journal bearing at the roller axis.

2,647,277
**WHEEL AND MOUNTING ASSEMBLY**
**Carl O. Christensen, Walnut Creek, Calif., assignor to Roll-Rite Corporation, Oakland, Calif., a corporation of California**
**Application January 3, 1949, Serial No. 68,849**
**4 Claims. (Cl. 16—44)**

3. In combination, a wheel and a mounting means therefor, said mounting means comprising a spaced pair of rigid annular members, means rotatably mounted on one of said members for mounting said mounting means on a vehicle body, said rotatably mounted means being mounted for rotation about a vertical axis, forks depending from the other rigid member and being fixedly secured at their upper ends to said other rigid member, said wheel being rotatably supported by and at the lower ends of the forks for rotation about a horizontal axis displaced laterally from said vertical axis, and a single annular resilient member disposed between and bonded





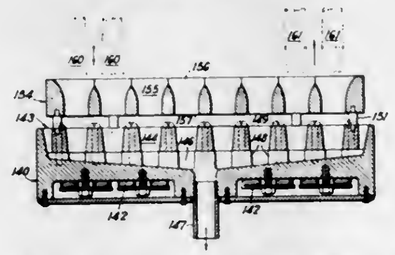
to said rigid annular members to provide the only connection therebetween.

2,647,278
**SHRIMP DEVEINER AND SHELLER**
**Harold Weinberger, South Orange, N. J.**
**Application July 12, 1950, Serial No. 173,349**
**3 Claims. (Cl. 17—7)**



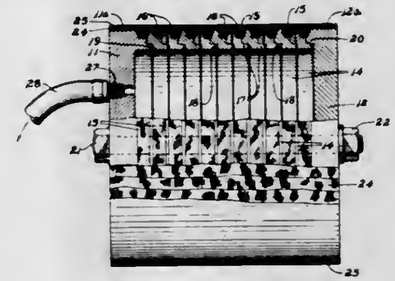
1. A shrimp de-veiner and sheller comprising a first arm that is curved longitudinally to provide convex and concave sides, said arm being arcuate in cross section and tapering gradually toward its outer end, a handle portion extending from the other end of said arm, a second arm of substantially the same configuration as the first arm and being of less length than said first arm, a handle portion extending from one end of the second arm and disposed on the same side as said second arm, said arms being pivotally connected together intermediate their ends, the second arm normally nesting within the confines of the first arm, and teeth formed on the concave edges of the first arm beyond the outer end of the second arm.

2,647,279
**CANDLEMAKING APPARATUS**
**Carl J. Schroeder, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**
**Original application June 30, 1950, Serial No. 171,419. Divided and this application June 30, 1950, Serial No. 171,420**
**3 Claims. (Cl. 18—1)**



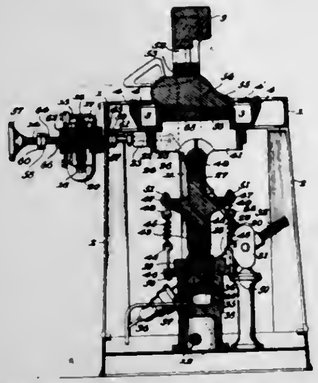
1. A candle butt forming device which comprises a carrier, conduit means for removing molten wax from said carrier, a moldplate supported by said carrier in spaced relation to the upper surface of the carrier thereby providing drainage channels between the moldplate and the carrier, said carrier and said moldplate being made of a metal having a high heat conductivity, which moldplate is provided with bottomless moldholes, the axis of said moldholes being perpendicular to said moldplate, said moldholes consisting only of tapered sidewalls shaped so as to form a candle butt to fit the socket of a candleholder, means for heating said carrier and said moldplate to a temperature above the melting point of candle wax, a guideplate in vertically spaced, parallel relation above said moldplate, said vertical space being less than the length of the candle whose butt is to be formed, which guideplate is provided with guideholes, which guideholes are coaxially arranged over said moldholes and which guideholes are curvilinearly tapered from a diameter at the end at which the candle butt enters of about 1.5 times the candle butt diameter to a sliding fit, and the vertical height of said guideholes is between about 1.5 and 2.5 times the candle butt diameter, whereby the axis of the candle whose butt is being formed is maintained coincident with the axis of said moldhole and said guidehole, and said guideplate having a heat conductivity approximating that of wood.

2,647,280
**MANUFACTURE OF V BELTS**
**Charles W. Legullion, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application November 7, 1950, Serial No. 194,444**
**2 Claims. (Cl. 18—6)**



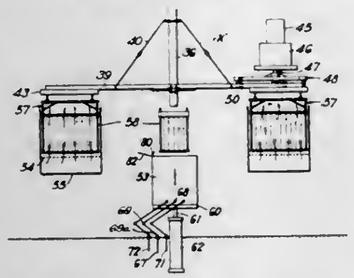
2. A method of vulcanizing V-belts in the presence of a heated pressure fluid in an autoclave, which method comprises disposing unvulcanized belts in annular molding grooves on a cylindrical mold formed with matching ring sections fitting each other in coaxial alignment, wrapping cloth material under tension around said cylindrical surface of the mold and over said belts to cover said surface and to apply constricting pressure against the V-belts to urge them into their respective grooves, stretching an impervious rubber sleeve around the wrapping from one end of the mold to the other end to seal the wrapping and the belts from the pressure fluid, closing the opposite ends of the mold to provide a chamber inside the mold sealed from the pressure fluid, venting the V-belt grooves and portions of the peripheral surface of the rings intermediate the grooves into said chamber, subjecting the cylindrical surface covered by the rubber sleeve to a heated pressure fluid to effect vulcanization of the belts, and venting said chamber within the mold to the atmospheric pressure throughout the vulcanization.

2,647,281
**AUTOMATIC MACHINE FOR VULCANIZING RUBBER SOLES ON BOOTS AND SHOES**
Gonzalo Mediano Capdevila, Barcelona, Spain, assignor to Coturno, S. A., Caracas, Venezuela, a corporation of Venezuela
Application December 27, 1949, Serial No. 135,246
In Spain March 30, 1946
12 Claims. (Cl. 18—17)



1. An automatic vulcanizing machine comprising a last upon which a shoe to which a sole is to be vulcanized is mounted, a frame, a bridge pivotally mounted in the lower portion of said frame, guide members fixed to said bridge, means for reciprocating said guide members, lateral compression elements slidably mounted in said guide members, said compression elements being pivotally connected to said frame so that upon reciprocation of said guide members said compression members will be reciprocated in a direction at right angles to the reciprocation of said guide members and a ram for compressing the rubber against said sole when said compression elements have moved to their compression position.

2,647,282
**CANDLEMAKING APPARATUS**
Carl J. Schroeder, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application June 30, 1950, Serial No. 171,419
10 Claims. (Cl. 18—27)



1. In a candle making machine the combination of a wheel rotatable on a vertical axis, radially extending arms on said wheel, holders for supporting the tops and bottoms of wicks and partly-formed candles positioned below and supported by said radial arms, a wax bath, means for intermittently rotating the wheel to carry said holders into position over the wax bath, means for reciprocably moving the wax bath toward and from the holders so as to immerse the wicks and partly-formed candles thereon in the wax bath during each stop period of the wheel and means for removing during the period of movement of the wheel "wax tails" from the wicks and partly-formed candles.

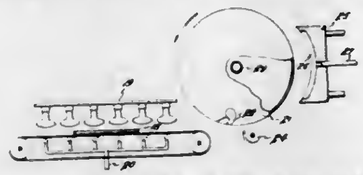
2,647,283
**METHOD OF MOLDING**
Eugene C. Quear and Willard C. Shaw, Anderson, and James R. Edwards, Middletown, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application December 13, 1947, Serial No. 791,520. Divided and this application April 6, 1950, Serial No. 154,341
5 Claims. (Cl. 18—55)



1. In the method for making a plastic article of a defined shape from a thermosetting molding powder, the steps comprising; continuously spreading a thin layer of molding powder upon a moving surface heated to a temperature approaching but less than the irreversible reaction temperature of the powder; heating the powder by conduction by maintaining the powder relatively stationary with respect to said surface and in continuous and direct contact therewith until the powder attains the temperature of the surface; continuously removing hot powder from said surface; periodically briquetting a predetermined quantity of said hot powder into a self-sustaining briquet without permitting the powder to cool appreciably, then compressing the briquet in a hot mold into an article of the desired shape and size at a temperature sufficient to cause the irreversible reaction to occur, and finally ejecting the formed article.

2,647,284
**METHOD OF CURVING A FLAT MOLDED PLASTIC PRINTING PLATE**
Henry M. Richardson, Springfield, Mass., and William Baumrucker, Jr., Stamford, Conn., assignors to News Syndicate Co., Inc., New York, N. Y., a corporation of New York
Application February 25, 1949, Serial No. 78,276
2 Claims. (Cl. 18—58)

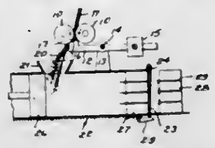
1. The method of curving a flat molded plastic printing plate to fit the cylinder of a rotary printing press which comprises heating the back of the molded sheet to render it flexible and simultaneously cooling the face of said sheet, and



then pressing the back of said sheet against the surface of a bending roll to curve and harden it.



2,647,285
**METHOD FOR CRIMPING TEXTILE FIBERS**
Julius H. Pfau, Yonkers, N. Y., assignor to Alexander Smith, Incorporated, a corporation of New York
Application July 20, 1950, Serial No. 174,870
5 Claims. (Cl. 19—66)



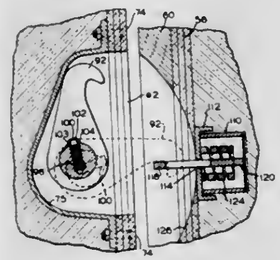
1. The method of imparting a permanent artificial crimp to textile fibers, which comprises gripping said fibers between closely spaced conveyor surfaces discharging into a substantially closed zone, and forcing the gripped fibers into said zone against the pressure of a mass of fibers held compacted under pressure in said zone, said pressure being adapted to cause the fibers to be progressively folded over and crimped as they are delivered from said conveyor surfaces, removing the crimped fibers from said zone and releasing the compacting pressure thereon, transferring the fibers while free from said compacting pressure to a second pressure zone, applying pressure in said last zone to compress said fibers into a compacted mass, and subjecting said mass while under said compacting pressure to a setting agent for a period of time to effect a permanent set of said crimp.

2,647,286
**TREATMENT OF TEXTILE FIBERS FOR REMOVING FOREIGN MATTER THEREFROM**
Manfred T. Hoffman, Newburyport, Mass.
Application November 18, 1946, Serial No. 710,563
2 Claims. (Cl. 19—66)



1. The process of treating animal fibers to remove cellulosic foreign matter therefrom which includes the steps of acidifying the fibers with carbonizing acid of sufficient concentration to effect carbonization of the fibers upon subsequent heating thereof, carding the acidified fibers, and heating the fibers while being carded to a sufficiently high temperature for a sufficiently long period of time to convert cellulosic foreign matter into carbon.

2,647,287
**LOCKING MECHANISM**
Frederick M. Jones, Minneapolis, Minn., assignor to The U. S. Thermo Control Co., Minneapolis, Minn., a corporation of Minnesota
Application July 14, 1950, Serial No. 173,783
5 Claims. (Cl. 20—4)

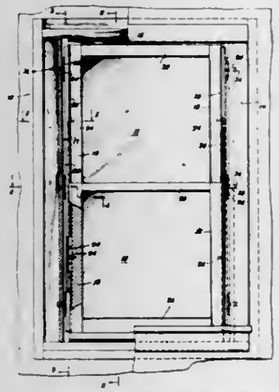


5. In combination with a pair of walls each having a joining surface cooperable with the joining surface of the other wall to form a junction between said walls, a first casing carried within the joining surface of one of said walls, a latch member supported by said casing, a second casing carried within the joining surface of the other of said walls, a locking member within said second casing having a hook-shaped portion adapted to extend beyond the plane of the joining surface and engage said latch, a cam having an eccentric axis of rotation carried within said second casing and forming a support for one end of the locking member, said cam being adapted for rotation through an over-center position with respect to the latch, a spring biased detent carried by the cam and forming an operative connection between the cam and the locking member, and yieldably releasing the cam when the locking member engages the latch, limiting means carried by said casing and engageable with a portion of the cam when the latter moves through its over-center position, and yieldable means carried by one of said casings and cooperable with its respective member providing yieldable movement between the locking member and the latch when said members are in locked engagement with each other.

2,647,288
**WINDOW CONSTRUCTION**
Edgar C. Richardson, Wenonah, N. J.
Application January 5, 1950, Serial No. 136,867
2 Claims. (Cl. 20—12)

1. In a window construction of the class described including a frame, the combination of a jamb for each side of the frame having a vertical recess and spaced transverse openings therein, a cylindrical rod having spaced transverse openings movably mounted in each of said recesses having a vertical slot therein, a sash having a semi-cylindrical groove at each side thereof for slidably receiving one of said rods, said slot and groove being in alignment when said sash is in a closed position, a laterally extending pin centrally disposed at each side of said sash extending into a slot of said rod to slidably and pivotally mount said sash between said rods, said pin being rigidly secured to the sash, a plurality of leaf springs for urging said rods outwardly of said recesses and into said grooves of said sash, each of said springs having a transverse opening

therethrough, and adjustable means passing through said jamb, spring and rod openings for



adjusting tension of said springs and limiting the outward movement of said rods.

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2,647,289
**WINDOW WEATHERSTRIPPING**
**George C. Harbert, Ann Arbor, Mich., assignor to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada**
**Application August 24, 1950, Serial No. 181,234**
**3 Claims. (Cl. 20—56.4)**

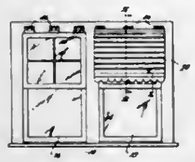


1. In a mounting strip for supporting first and second panels in end-to-end relation, a base section, first and second lips extending from the base section in one direction and providing a channel for the reception of said first panel therebetween, a third lip integral with said base section adjacent said second lip extending in the opposite direction from said first and second lips and forming with the adjacent side of said second lip a channel for the reception of said second panel, and a wing having the inner end fixed to said second lip adjacent the outer end thereof extending in the reverse direction from said second lip around said third lip in spaced relation thereto with the outer end thereof adapted for engagement with a portion of said second panel.

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2,647,290
**WINDOW AWNING**
**Jack M. Nachman, Kansas City, Mo., assignor to Peerless Products, Inc., Kansas City, Mo., a corporation of Missouri**
**Application August 30, 1948, Serial No. 46,775**
**3 Claims. (Cl. 20—57.5)**

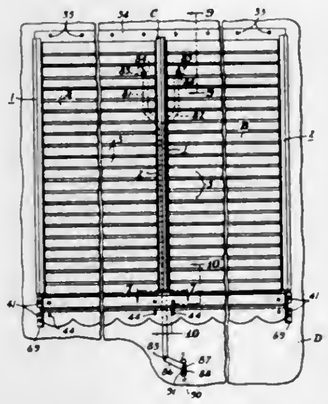
1. A window awning comprising a pair of parallel side rails, a plurality of horizontal cross slats longitudinally slotted at their opposite ends, bolts extending through said slots and attaching said slats to said side rails whereby a louvered panel is formed and adapted for transverse adjustment, channeled brackets adapted to be secured to a window frame, a downwardly extended lip carried by the upper portion of said panel and fitted into said channeled brackets to support said awn-



ing on the window frame and a pair of arms secured at their outer ends to the lower portion of said panel and at their inner ends to the window frame whereby the lower end of the panel is held in spaced apart relation from the window frame.

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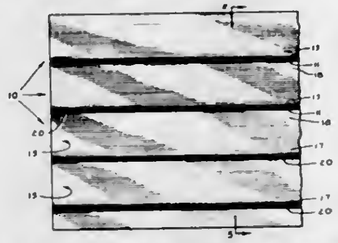
2,647,291
**AWNING CONSTRUCTION**
**Frank C. Russell and Arthur A. Ensminger, Cleveland, Ohio, assignors to The F. C. Russell Company, Cleveland, Ohio, a corporation of Ohio**
**Application February 8, 1949, Serial No. 75,262**
**16 Claims. (Cl. 20—57.5)**



1. In a movable louver type awning, a plurality of louvers, a sheet metal frame member of substantially uniform section along its length, said member comprising a substantially flat body portion, a substantially flat louver attaching portion disposed substantially in a plane offset from and substantially parallel to the plane of the body portion and integrally connected to the latter along a line spaced inwardly from and substantially parallel to the outer margins of the frame member, means spaced along the length of the offset louver attaching portion for pivotally supporting the louvers, a laterally extending cap flange disposed along one margin of the offset portion of the frame member, and a base flange disposed along one margin of the body portion of the frame member and spaced from the line of integral connection between the body and offset portions, said base and cap flanges extending in opposite directions laterally from the planes of the body and louver attaching portions respectively, the cap flange intersecting the plane of the body portion and the base flange intersecting the plane of the offset louver attaching portion.



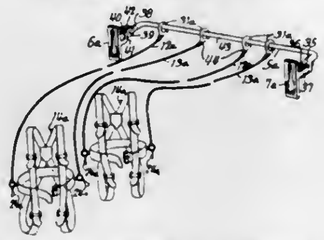
2,647,292
**COVERING FOR AWNINGS AND THE LIKE**
**Donald H. Ruggles, Tulsa, Okla.**
**Application November 10, 1947, Serial No. 785,166**
**4 Claims. (Cl. 20—57.5)**



1. In a rigid inclined awning, a sheet of rigid material provided with a plurality of substantially flat, parallel sections each having opposite faces and opposite side edges with all of said faces in substantial parallelism and inclined from the vertical and horizontal, means joining the sections and disposing them in stepped relation comprising risers, each having a solid wall portion joining one adjacent section and with the plane of the solid wall portion extending into the other adjacent section and forming an obtuse angle therewith, and a perforated wall portion, provided with a plurality of spaced-apart vent openings, joining said solid wall portion and the next adjacent section, the transverse central part of said risers being acutely inclined to the planes of adjacent sections, and said openings cutting into said next adjacent section, said solid wall portion extending over said openings in the adjacent perforated wall portion and overhanging said last-named openings.

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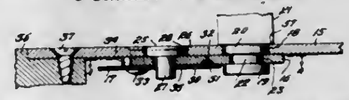
2,647,293
**FIRE SAFETY APPLIANCE FOR APPLICATION TO THE OUTSIDE OF WINDOWS**
**Andrew F. Wintercorn, Rockford, Ill.**
**Application October 6, 1947, Serial No. 778,148**
**3 Claims. (Cl. 20—72)**



1. An escape apparatus for persons trapped within a windowed burning building comprising in combination, an elongated horizontal support including means at each end thereof cooperative with means mounted at the sides of a window opening exteriorly of the window for detachably securing the support by such ends to the opposite sides of the windows opening at a level above the window ledge generally corresponding to the waist level of a person standing erect on the window ledge, the distance between said support and the window being such that said support engages the back of the person standing substantially erect on the window ledge, a body harness including a waist band for the person, a pair of life lines connecting opposite sides of said waist band to said support, the length of said lines being such as to enable the person with said harness donned to secure the ends of said horizontal support to the opposite sides of the window opening while standing on the floor inside the window and to hang by said life lines below the window ledge, and interengageable fastener members one of which members is carried by the waist band of said harness for detachably connecting said waist band in close proximity to said support.

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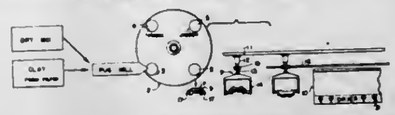
2,647,294
**RELEASABLE FASTENER**
**Frank L. Davis, College Point, N. Y.**
**Application September 23, 1949, Serial No. 117,475**
**8 Claims. (Cl. 24—223)**



6. A fastener of the character disclosed comprising a supporting plate having a bolt opening therethrough and a bearing opening closely adjoining said bolt opening, a shear plate at the back of said supporting plate having a stud on the upper face of the same rotatably engaged in said bearing opening and having a keyhole slot with larger and smaller end portions to register, respectively, with said bolt opening upon swinging movement of said shear plate in opposite directions, a spring retainer plate at the back of said shear plate, spaced fastenings securing said retainer plate to said supporting plate and located at opposite side edges of said shear plate to limit swinging movement of said shear plate in opposite directions, and companion means on said shear plate and retainer plate for yieldingly retaining the shear plate in different positions of adjustment.

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2,647,295
**METHOD AND APPARATUS FOR MANUFACTURE OF POTTERY**
**Robert E. Gould, East Aurora, N. Y.**
**Application September 20, 1948, Serial No. 50,056**
**26 Claims. (Cl. 25—22)**



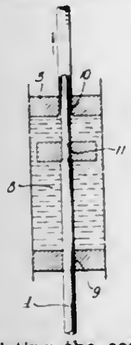
15. In apparatus for fabricating pottery ware on porous molds having a contoured surface on which plastic clay ware is formed, a drying zone, a conveyor member for moving the molds with the formed ware adhering to the shaped surface through the drying zone, means on the conveyor to engage the molds and support them with the contoured surface downward and the ware adhering thereto as the molds are moved through the drying zone.

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2,647,296
**METHOD OF MANUFACTURING TUBULAR INSULATION**
**Howard J. Shive, Schwenksville, Pa., assignor to Bentley-Harris Manufacturing Company, Conshohocken, Pa., a corporation of Pennsylvania**
**Application May 31, 1950, Serial No. 165,231**
**9 Claims. (Cl. 28—74)**

1. The process for the manufacture of tubular electrical insulation which comprises continuously pulling a fabric tubing vertically into and

through a body of vinyl resin plastisol; constricting said fabric tubing while passing through said body of plastisol by the application of uniform radial compression which reduces the diameter of the tubing and, through the drag occasioned thereby, imparts tension to the tubing; continuously withdrawing the fabric tubing having a coating of plastisol thereon from said body of plastisol in a vertical direction while constricting the coated tubing to a predetermined diameter slightly greater than the outside diameter of the fabric tubing to fix the thickness of said coating; subjecting the resulting coated fabric tubing to heat while moving in a vertical direction to flux the vinyl resin particles, and permitting the resulting coated product to cool while moving in a vertical direction.



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**2,647,297**

**COCKLED FIBROUS PRODUCT OF THE NONWOVEN FABRIC TYPE AND METHOD OF MAKING IT**

**Orlando A. Battista, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**

**Application July 10, 1948, Serial No. 38,131**

**9 Claims. (Cl. 28—78)**



5. As a new article of manufacture, a cockled, felt-like, fibrous, non-woven fabric comprising a carded mixture of a material which is not affected as such by aqueous alkaline saponifying media and shrunk de-esterified cellulose ester fibers, the latter fibers constituting between 55% and 70% by weight of the fibers in the fabric, said fabric comprising cockled areas, the first-mentioned fibers being adhesively bonded to, and held in cockled disposition by, de-esterified fibers in said cockled areas.

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**2,647,298**

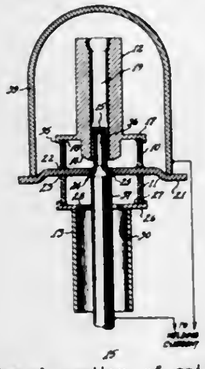
**ULTRAHIGH-FREQUENCY ELECTRON DISCHARGE DEVICE**

**Nicholas E. Pryslak, Florham Park, and Kenneth M. McLaughlin, Summit, N. J., assignors to Radio Corporation of America, a corporation of Delaware**

**Original application March 28, 1947, Serial No. 737,890. Divided and this application September 30, 1948, Serial No. 52,082**

**5 Claims. (Cl. 29—25.15)**

1. Method of mounting a tubular and relatively fragile grid on a disc-shaped support having a passageway defined by walls of frusto-conical shape, whereby one end of said passageway adjacent one flat side of said support is wider than the other end thereof, said method comprising mounting said support transversely and intermediate the ends of an elongated electron tube envelope having an open end with said one flat side of the support facing said open end and with said passageway in the support in coaxial relation with said envelope and said open end, flaring a peripheral portion of said grid to said frusto-conical shape, extending said grid through said open end and through said passageway with the wider end of said frusto-conical peripheral portion thereof in trailing relation to the narrower end of said portion, until said peripheral portion seats on the walls of said passageway in a relatively large area engagement, and passing electric welding current through said support and said peripheral portion of the grid to weld said grid to said support.



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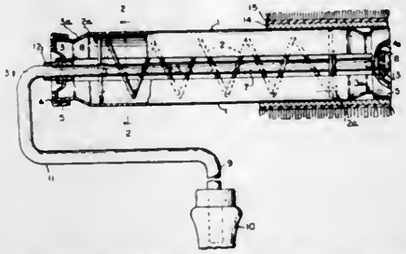
**2,647,299**

**PAINTING APPLIANCE OF THE DETACHABLE ROLLING SLEEVE TYPE**

**Earl E. Thomas, Detroit, Mich.**

**Application August 14, 1950, Serial No. 179,148**

**15 Claims. (Cl. 29—116)**



1. An appliance for painting and like operations, comprising a shaft, a plurality of elongated segments, spaced apart and outwardly spaced from the shaft and jointly forming a hollow roller and movable to and from each other to contract and expand the roller, a resilient expander for the roller disposed between the segments, a pair of heads freely rotative on the shaft at the roller ends and shaped and proportioned to effect a predetermined contraction of the roller, means on the shaft resisting disengagement of the heads from the roller, and a work-engaging sleeve fitted over and proportioned to effect a further contraction of the roller and having an exterior paint-retaining pile.



**2,647,300**

**DETACHABLE TUBULAR COVER FOR PAINTING ROLLERS**

**Earl E. Thomas, Detroit, and Standly T. Coughlan, Dearborn, Mich., assignors to Thomas Roller Painting Equipment Corporation, a corporation of Michigan**

**Application March 10, 1949, Serial No. 80,652**

**6 Claims. (Cl. 29—120)**



1. A paint-applying roller cover comprising an inner tube of light, non-metallic fibrous material, a woven fabric exteriorly covering said tube, an adhesive securing the fabric directly to the tube substantially throughout the peripheral exterior area of the tube, a sleeve having an exterior paint-retaining nap and embracing the fabric-covered tube, and an adhesive securing substantially the entire interior area of the sleeve to the fabric.

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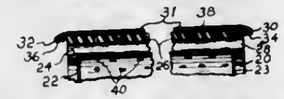
**2,647,301**

**ROLLER FOR IRONING MACHINES**

**Charles C. Scheele, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware**

**Application August 18, 1948, Serial No. 44,889**

**1 Claim. (Cl. 29—128)**



In an ironing machine, an ironing roll comprising, in combination, a circular cross section cylindrical rigid metal-supporting sleeve having an exterior cylindrical surface, a resilient cylindrical sleeve superimposed thereover composed of resilient solid rubber free of closed air cells, said resilient sleeve being elongated and having on its inner surface a plurality of relatively deep elementally extending open ended grooves closely and uniformly spaced circumferentially of the rubber sleeve, and forming with said rigid sleeve open ended continuous passages extending the length of said resilient sleeve, the thickness of said resilient sleeve being substantially double the depth of said grooves, said rubber sleeve having a circular cylindrical outer surface and having a plurality of radial apertures extending from the outer surface to said grooves, and a fabric cover wrapped about said rubber sleeve.

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**2,647,302**

**METHOD OF REMODELING MILK CANS**

**John A. Hopwood, Westfield, N. J., assignor to Monitor Process Corporation, Jersey City, N. J., a corporation of New Jersey**

**Application January 4, 1949, Serial No. 69,083**

**3 Claims. (Cl. 29—148.2)**

1. Method of remodeling a milk can having a side wall, a dished bottom and a reinforcing ring, for the delivery of milk through said side wall adjacent said bottom, which comprises the following steps: cutting through the reinforcing ring a circular opening the lowermost portion of which is substantially tangent to the horizontal plane of the lowermost portion of the bottom of the can, making in the side wall of the can an arcuate cut registering with the juxtaposed portion of said circular opening in the reinforcing ring, making a chordal cut along the juncture of the side wall and bottom to connect the opposite ends of said arcuate cut to cut away that portion of the side wall which registers with the opening in the ring, depressing that portion of the bottom which is juxtaposed with the ring opening without radially slitting said bottom to form a channel from substantially the center of the can to and conforming with the lower portion of the ring opening, inserting into said opening from the exterior of the can a discharge tube mounting cup, securing the cup in place interiorly of the can to the side wall and bottom of the can to produce an impervious joint between the cup and the opening, applying a reinforcing plate beneath the channel in the bottom of the can, and securing said plate and cup to the can exteriorly of the latter.



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**2,647,303**

**METHOD OF MANUFACTURING PIPE FITTINGS AND THE LIKE**

**Frank Ziherl, Euclid, Ohio, assignor to Z & W Machine Products, Inc., a corporation of Ohio**

**Application November 17, 1948, Serial No. 60,517**

**1 Claim. (Cl. 29—157)**



The method of manufacturing elbows which comprises cutting steel bar stock of non-circular external cross-section into lengths substantially equivalent to the finished length of the elbow, drilling a length to provide a bore extending therethrough and machining the external surface but leaving a portion thereof intermediate its ends of unaltered external cross-section, then bending said length at a point adjacent one side of said unaltered portion, so as to form angularly related portions, and then exteriorly threading the portion of said length at the other side of said unaltered portion, said sequence of operations avoiding injury to the threads of said exteriorly threaded portion during the manufacture of said elbows.

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**2,647,304**

**PROCESS OF TERNE COATING METAL AND TERNE COATED PRODUCT**

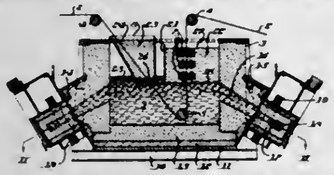
**Nelson E. Cook and Samuel L. Norteman, Wheeling, W. Va., assignors to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware**

**Application August 18, 1951, Serial No. 242,496**

**3 Claims. (Cl. 29—194)**

1. In the terne coating of metal in which metal is immersed in a bath of molten terne metal and removed from the bath of molten terne metal through a bath of oil floating atop a portion of the bath of molten terne metal and in which

the temperature of the molten terne metal approaches the flash point of the oil so that there is danger of igniting the oil by so-called "hot spots" or localized zones of undesirably high temperature in the molten terne metal, the step of maintaining the terne metal molten by electric induction heating and thereby maintaining the

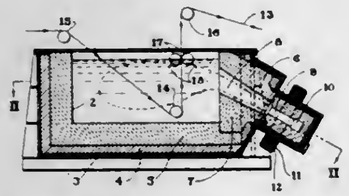


temperature of the terne metal substantially uniform throughout the bath of molten terne metal and substantially eliminating "hot spots" whereby to obviate the danger of igniting the oil.

3. A terne coated product comprising a base metal having thereon a coating of terne metal of improved uniformity and quality applied by the process of claim 1.

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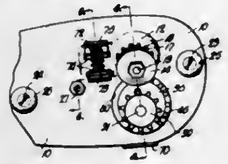
**2,647,305**
**PROCESS OF TIGHT COAT HOT DIP GALVANIZING AND HOT DIP GALVANIZED PRODUCT**
**Nelson E. Cook and Samuel L. Norteman, Wheeling, W. Va., assignors to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware**
**Continuation of abandoned application Serial No. 186,218, September 22, 1950. This application June 15, 1951, Serial No. 231,714**
**6 Claims. (Cl. 29—196.2)**



1. A process of hot dip galvanizing by use of a molten coating bath comprising molten zinc and at least one other molten metal which tends to separate from molten zinc to provide a product having a tight galvanized coating which will not flake off when the product is deep drawn comprising maintaining molten by electric induction heating a coating bath comprising zinc and at least one other metal which tends to separate from zinc and by such electric induction heating inducing thermal circulation of the molten bath whereby to maintain the molten metal of the bath of relatively uniform composition throughout at least a portion of the bath with the zinc and other metal uniformly admixed, and passing base metal to be galvanized through said portion of the bath whereby to apply to said base metal a galvanized coating substantially uniform over the surface of the base metal in zinc and other metal.

6. A hot dip galvanized product comprising a base metal having thereon a tight galvanized coating, said coating comprising zinc and at least one other metal which, in the molten state, tends to separate from the zinc, said coating further having the zinc and other metal substantially uniformly distributed therethrough, said coating having been applied by the process of claim 1.

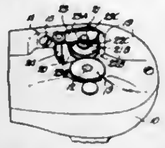
**2,647,306**
**CAN OPENER**
**William J. Landry, Blue Springs, Mo., assignor to John C. Hockery, Kansas City, Mo., trustee for Henry J. Talge and Foster L. Talge**
**Application April 14, 1951, Serial No. 221,009**
**28 Claims. (Cl. 30—9)**



3. A can opener comprising a body member, a cutting wheel rotatably secured to said body member, a plug member rotatably mounted in a bore of said body member, a bore extending through said plug member and eccentrically positioned with respect to the bore of said body member, a rotatable operating handle having a spindle extending through said second bore, a feed wheel secured to said spindle to be rotated with said handle, first gear means connecting said plug member to said cutting wheel during the rotation of said plug to rotate said cutting wheel, clutch means connecting said handle to said plug to rotate said plug during a first portion of the rotation of said handle in a selected direction whereby the spindle and feed wheel are moved towards said cutting wheel, means to disconnect said clutch means during continued rotation of said handle in the selected direction, and second gear means connecting said feed wheel and said cutting wheel for rotation therewith after said clutch means is disconnected.

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**2,647,307**
**CAN OPENER CUTTER ASSEMBLY**
**William J. Landry, Blue Springs, Mo., assignor to John C. Hockery, Kansas City, Mo., trustee for Henry J. Talge and Foster L. Talge**
**Application November 21, 1951, Serial No. 257,466**
**7 Claims. (Cl. 30—9)**



1. A can opener cutter assembly carried by the housing of a can opener including a cutter with a bearing disk rotatably and removably mounted on a post, a groove around the post engaged by a pivoted locking clip, said clip having a projection engageable by the cutter bearing disk when the cutter is improperly mounted on the cutter post thereby preventing latching of the clip on the cutter post.

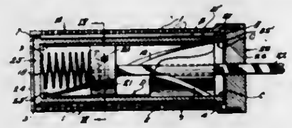
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**2,647,308**
**SAFETY RAZOR**
**David A. Dodson, Las Vegas, Nev.**
**Application September 14, 1951, Serial No. 246,670**
**2 Claims. (Cl. 30—43)**

1. A rotary type razor comprising, in combination, a razor head provided with a multiplicity of perforations, a rotor mounted in the razor head, a cutting blade mounted on the rotor adjacent to the razor head and behind the perfora-



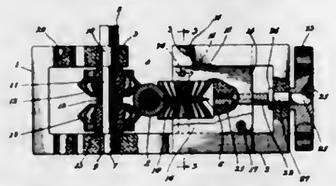
tions thereof, means on the rotor for removably holding the blade on the rotor in operative position, an operating rotor mounted interiorly of the blade-carrying rotor, interacting means coupling the operating and the blade-carrying rotors, a coil spring mounted in the operating rotor, rectilinearly movable, manually operative plunger means for compressing the coil spring, and instrumentalities for converting rectilinear move-



ment of the plunger means into rotary movement for operating the operating rotor and blade-carrying rotor for rotatably operating the blade, rectilinear movement of the plunger means compressing the spring and rotating the operating rotor and the blade-carrying rotor, the spring returning the plunger means to original position responsive to release of pressure on the plunger means for causing rotation of the rotor and blades in an opposite direction.

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**2,647,309**
**CABLE INSULATION CUTTER**
**Ernest F. Chisena, Brooklyn, N. Y.**
**Application May 22, 1950, Serial No. 163,467**
**3 Claims. (Cl. 30—91)**



1. An implement for longitudinally slitting the outer tubular casings of cables comprising a C-shaped frame having a gap in one side, a shaft rotatably supported in said frame adjacent said gap, bevelled gears facing each other mounted on said shaft to turn therewith, said shaft having an end projecting from the frame and shaped for engagement by a tool, a cross head slidably mounted in the frame, the gap being between the shaft and the head, guide plates on the sides of the head overlapping and engaging the outer sides of the frame, a pin on said head parallel to said shaft, a rotatable cutter disk on the pin projecting from the front end of the head, guide means having faces inclined towards the disk on the front of the head and projecting therefrom adjacent both faces of the disk in line with said gears, the gap permitting passage of a cable between the disk and said gears, to be engaged on opposite sides by the gears and guide means, a threaded stud in the frame and engaged so as to be held against longitudinal movement, a knob on the stud to turn the stud, the head having a threaded bore receiving said stud.

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**2,647,310**
**SPOON**
**Jack Yolles, Dayton, Ohio**
**Application November 21, 1951, Serial No. 257,506**
**1 Claim. (Cl. 30—149)**

In a spoon, a bowl having a handle, a plurality of elongated tapered tines integral with the bowl and positioned at the front thereof and diametrically opposite to the handle, said tines being sharpened on both edges and joined at their bases by arcuate cutting edges for initially cutting into citrus type fruit for removal of its sections,



and a plurality of closely aligned cutting teeth in the form of saw teeth arranged integral with and along each lateral edge of the bowl, whereby reciprocating motion of the handle causes the teeth to fully separate fruit sections initially cut by the cutting edges of the tines.

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**2,647,311**
**DETACHABLE BLADE POCKETKNIFE**
**Thomas R. Arden, Danbury, Conn., assignor to Bard-Parker Company, Inc., Danbury, Conn., a corporation of New York**
**Application March 7, 1951, Serial No. 214,275**
**2 Claims. (Cl. 30—156)**



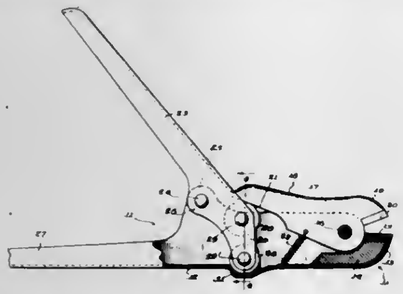
1. A pocket knife comprising a handle, a shank pivoted at one end to said handle for swinging movements between open and closed positions relative thereto, said shank at one face thereof and near its pivoted end being recessed and thereby being provided with an inwardly facing shoulder at the outer end of said recess, said shank outwardly of said recess being of substantially uniform thickness from face to face and the upper and lower edges of said shank outwardly of said shoulder being substantially parallel, said edges having therein channels which extend longitudinally of said shank and which are alined with the face of said recess, said channels opening through the outer end of said shank and having their inner ends terminating outwardly of said shoulder, a thin, laterally flexible, normally flat blade having therein a longitudinally extending slot the outer end portion of which is of a width approximately equal to the distance between the bottoms of the channels in said shank, said blade-slot being otherwise of approximately the same size and shape as said shank outwardly of said shoulder, whereby it is engageable and interlockable with said shank by sliding the same rearwardly relative to said shank under lateral flexure to engage portions thereof at both sides of the slot therein with the grooves of said shank and to engage the portion thereof at the rear end of the slot therein behind said shoulder.

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**2,647,312**
**HAND TOOL**
**Ernest C. Neal, Chicago, Ill., assignor of one-half to Elmer Brandell, Chicago, Ill.**
**Application May 12, 1949, Serial No. 92,896**
**5 Claims. (Cl. 30—189)**

1. A hand tool comprising a main frame forming a handle portion at one end and a jaw portion at the other, a work lever forming a cooperating jaw, means forming a fulcrum pivot for said work lever on said frame adjacent the jaw portion, an operating lever forming a handle, a

mounting pivot on said frame for mounting said operating lever for angular movement toward said handle portion in the performance of a jaw closing stroke of the operating lever, said work lever having a cam surface thereon extending outwardly of said fulcrum pivot toward said mounting pivot, and a pair of spaced apart bearing members on said operating lever in position,



between said fulcrum and mounting pivots, to successively engage said cam surface in a direction progressively away from said fulcrum pivot during the jaw closing stroke of the operating lever, whereby each of said bearing members during its engagement with the cam surface exerts a progressively increasing force on the cam surface during its movement therealong.

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**2,647,313**
**ENVELOPE OPENER**
**Sven Olle Ohlsson, Malmo, Sweden, assignor to Aktiebolaget Addo, Malmo, Sweden, a corporation of Sweden**
**Application May 17, 1950, Serial No. 162,458**
**In Sweden May 23, 1949**
**4 Claims. (Cl. 30—265)**

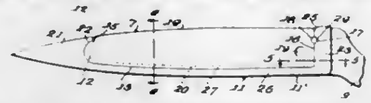


1. A device for opening envelopes by slitting through one wall thereof comprising; a frame formed with a longitudinal guide channel to receive the edge of an envelope, a pocket formed in the frame intersecting the channel adjacent one end of the frame, parallel pins upstanding in the pocket on opposite sides of the axis of said channel, rollers on said pins having their peripheries spaced on opposite sides of the axis of the channel, the periphery of one roller being cylindrical and the periphery of the other roller being formed with projecting V-shaped cutting edge, and a thumb-wheel integral with said other roller having its edge projecting from the side of said pocket.

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**2,647,314**
**REMOVABLE BLADE SHEARS**
**William B. Gilson, Anderson, Ind.**
**Application July 9, 1951, Serial No. 235,685**
**1 Claim. (Cl. 30—349)**

In removable blade shears, a pair of permanent blade sections crossed at their rear ends, pivot means securing said sections together at their crossing point, handle sections integral with and extending rearwardly from the respective sections, each of said permanent sections being provided with a rounded and blunt nose at its forward end, each of said permanent sections having a thick portion at its rear end forming a transversely extending shoulder facing rearwardly and spaced slightly rearward of the pivot means, each permanent section having a pin fitted therein axially alined with and notched transversely into the respective shoulder; in combination with a pair of removable blade sections,



each having a longitudinally extending portion fitting on the respective permanent blade section and provided with a cutting edge, each of said removable sections having one end of the longitudinal portion extended and notched to fit over the free end of the respective blade section, and a rectangularly disposed portion extending from the opposite end of the longitudinal portion for engagement against the shoulder of the permanent section and provided with a notch fitting the respective pin.

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**2,647,315**
**DENTAL MATRIX INSTRUMENT**
**Lewis H. Dvorak, Jacksonville, Fla.**
**Application May 18, 1950, Serial No. 162,705**
**15 Claims. (Cl. 32—63)**

1. A dental matrix instrument for use with a tooth comprising a side confronting a proximal tooth separated therefrom to form an interstice, said instrument comprising a flexible matrix band positionable against said side and sufficiently long to extend beyond both ends of said interstice, and means to force the extending portions



of said band along the buccal and lingual sides, respectively, of said first tooth away from said proximal tooth, said means comprising slotted band end holding means, said last means having a curved protruding portion adjacent said slot engaging said band to urge said band into conformance and engagement with said first tooth adjacent the gingival line.

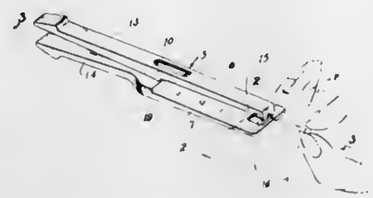
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**2,647,316**
**SEAM BASTER**
**Robert Hughes, Woodside, N. Y.**
**Application March 19, 1952, Serial No. 277,391**
**3 Claims. (Cl. 33—2)**

1. A seam baster for clamping upon superimposed layers of cloth, comprising a pair of clamping jaws, spring hinged to each other at their medial portions and provided with handles positioned at the ends thereof opposite the jaws for manual manipulation, one of the jaws having a tooth on its inner face at the outer end thereof, said tooth being bifurcated and provided with a transverse, dome shaped recess with the bifurcations positioned lengthwise of the jaws and in each of the opposite ends, the other jaw also having a bifurcated tooth on its inner face at the outer end thereof, such tooth having a transverse groove facing the bifurcations of the first



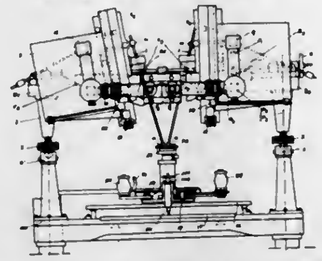
mentioned tooth and said second mentioned tooth being complementally dome shaped to be received by the recess of the other tooth, the depth of the recess and bifurcations in the first named tooth and the height of the second named tooth and



the depth of the transverse groove being sufficient that when the seam baster is clamped upon superimposed layers of cloth, a pin may be received and thrust lengthwise of the jaw through the layers of cloth held between the teeth guided by the mating bifurcations and grooves.

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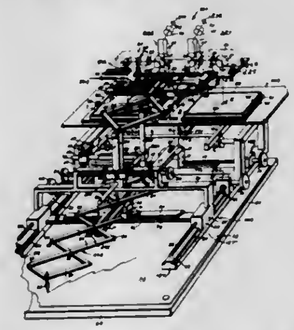
**2,647,317**
**APPARATUS FOR THE RESTITUTION OF IMAGES**
**Georges Jean Poivilliers, Neuilly-sur-Seine, France**
**Application August 16, 1949, Serial No. 110,653**
**In France August 26, 1948**
**6 Claims. (Cl. 33—20)**



1. Apparatus for the restitution of images from a pair of stereoscopic photographs comprising a pair of rectilinear rods each of which is pivotally articulated at a point intermediate its ends which materializes the point of sight, at a second point adjacent one end which materializes the image of the point observed and at a third point adjacent its other end which materializes the restored point, a pair of carriages adjustable toward and away from one another in a substantially horizontal plane to a spacing proportional to the distance between the points from which the photographs were taken, a cradle supported by each of said carriages and tiltable about a horizontal axis passing through the first named articulation point of one of said rods, a second pair of carriages slidably supported on said cradles for movement at right angles to said horizontal axes, a slide supported by each of said second pair of carriages and tiltable relatively thereto about an axis also passing through the first named articulation point of one of said rods and perpendicular to the associated horizontal axis, a third pair of carriages movably mounted on said slides and pivotally supporting said rods at said second named articulation points, said third pair of carriages being movable in planes established by the tilted positions of said cradles and slides, means carried by each of said second pair of carriages for supporting one of said stereoscopic photographs for movement in a fixed plane, connections between said photograph supporting means and said third pair of carriages for transmitting the movements of the latter to the photographs, and a binocular telescope for viewing said photographs.

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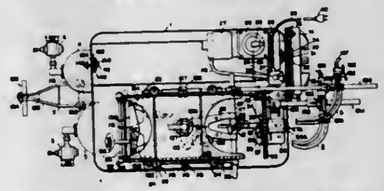
**2,647,318**
**STEREOPHOTOGRAMMETRIC RESTORER**
**Valentin Domingo Grondona, Rosario, Argentina**
**Application October 31, 1950, Serial No. 193,090**
**In Argentina April 7, 1945**
**19 Claims. (Cl. 33—20)**



1. A stereophotogrammetric restorer for restoring surveyed fields comprising a stereoscope provided with a stereoscopic photogram carrying platform having manually operable means for effecting movements of the platform in two orthogonal directions in a plane, stereoscopic parallax compensator means, a link mechanism coupled between said compensator means and said manually operable means and including a Peaucellier's diamond for proportionally inverting the movements of said compensator means with regard to the movements of said manually operable means, and a drawing apparatus operatively connected to said manually operable means.

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**2,647,319**
**PIPE JOINT INTERSECTOR**
**Stephan A. Grubich, Philadelphia, Pa.**
**Application January 30, 1950, Serial No. 141,281**
**6 Claims. (Cl. 33—21)**

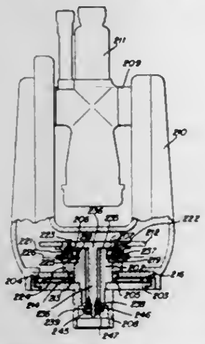


1. A machine adapted to form the end of a pipe so that it will properly join the cut-out portion of a pipe with which it is to intersect; comprising a base, rotatable means to mount a pipe for rotation about its axis on the base, driving means connected to said rotatable mounting means, a lever having its axis parallel to the axis of the pipe, said lever having one end freely rotatable about the axis of the lever, means connected to said driving means to revolve said lever

about an axis parallel to the axis of the pipe at the angular rate of rotation of the rotatable mounting means, a carriage mounted for horizontal movement parallel to the axis of the pipe, a shaft mounted across one end of said carriage, said shaft being free to move along its axis and being free to rotate about its axis, a link lying in a plane perpendicular to the axis of said shaft and secured to said shaft, said link having one end pivotally connected to the rotatable end of said lever and means to secure a tool to said carriage.

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**2,647,320**
**THEODOLITE**
**Carl W. Keuffel, Bernardsville, and Allister L. Baker, Denville, N. J., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey**
**Application September 15, 1950, Serial No. 185,016**
**15 Claims. (Cl. 33—46)**



1. A center system for a surveying instrument having a base, an alidade and a divided circle, comprising a male center secured to the base of the instrument, coaxial upper and lower external cylindrical surfaces on said male center, means comprising a plurality of rolling elements mounting said alidade for rotation about said lower external cylindrical surface and means comprising a plurality of rolling elements mounting said divided circle for rotation about said upper external cylindrical surface.

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**2,647,321**
**ALIGNING APPARATUS**
**Barton R. Hart and Glenn Hare, Rocky Gap, Va.**
**Application August 20, 1951, Serial No. 242,668**
**2 Claims. (Cl. 33—85)**



1. In an aligning apparatus of the type described, the combination of a substantially flat housing including a pair of side plates and having a perimetric wall provided with a flat work engaging surface, said housing defining a circular chamber therein and a recess at the circumference of said chamber, an integral arm-shaped extension provided on the perimetric wall of said housing and having a flat work engaging surface perpendicular to and co-terminal with the first mentioned work engaging surface, said housing being provided with a bore extending from said chamber to a point at the co-terminus of the work engaging surfaces, said extension being provided in the work engaging surface thereof with a longitudinal groove coaxial with and constituting a continuation of said bore, a shaft rotatably journaled in said side plates and extending transversely of said chamber, a reel provided on said shaft, a ratchet wheel provided on the shaft in said chamber and rotatable with said reel, a spring-pressed pawl disposed in said recess and engaging said ratchet wheel, means at the outside of one of said side plates for disengaging said pawl from the ratchet wheel, a crank at the outside of the housing for rotating said shaft, a flexible line connected at one end thereof to said reel and windable thereon, said line extending outwardly through said bore and passing through said groove, and anchoring means at the other end of said line.

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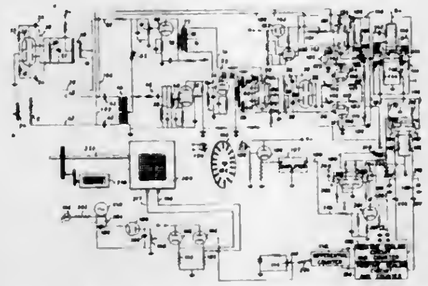
**2,647,322**
**DISTANCE AND ANGLE MEASURING DEVICE**
**Joseph B. Eliason, Minneapolis, Minn.**
**Application May 5, 1949, Serial No. 91,478**
**7 Claims. (Cl. 33—98)**



1. In a measuring instrument, an elongated main body portion having a pair of longitudinally movable end portions, a pair of connections between said end portions and said main body portion operable to move said end portions relative to said main body portion and each including an operating member, and said connections being resilient to permit movement of said end portions relative to said main body portion and said operating members.

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**2,647,323**
**ELEVATION METER**
**Ford Lawrence Johnson and Fred M. Mayes, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**
**Application September 26, 1947, Serial No. 776,250**
**30 Claims. (Cl. 33—141.5)**



12. In combination, a vehicle adapted to traverse a roadway and assume continuously the inclination thereof, a pendulum element subject to gravity tending to displace it from a predetermined position relativie to said vehicle, means producing a signal in response to such displacement of said element, means controlled by said signal for producing oppositely acting electromechanical forces, in the form of pulses of substantially constant amplitude but of variable duration, tending to maintain the element substantially in said predetermined position, means for producing two sets of signal pulses the difference of duration of which, integrated over short intervals, is algebraically proportional to the average value of said electromechanical forces over similar intervals, means for producing a third set of signal pulses the frequency of which is proportional to the rate of displacement of the vehicle along the roadway, means for counting the coincidences of signal pulses of the third set with signal pulses of one of the first mentioned sets, means for counting the coincidences of signal pulses of the third set with signal pulses of the other of the first mentioned sets, and means for counting the difference of the two sets of coincidences.



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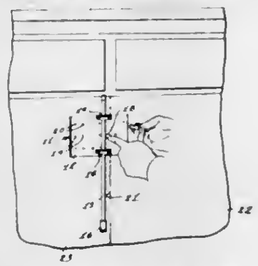
**2,647,324**
**SURFACE TEST INDICATOR**
**Gerald C. Welch, Rochester, N. Y.**
**Original application October 5, 1949, Serial No. 119,626. Divided and this application June 17, 1952, Serial No. 293,884**
**3 Claims. (Cl. 33—172)**



1. In a ball tip for a dial indicator, a contact tip comprising a threaded shank, and an end ball of a diameter approximately the root diameter of the threads on said shank, a ball ended sleeve having internal threads for engaging said threaded shank, said ball ended sleeve having an end shoulder, and said shank having a shoulder at the base of said threads, the axial distance between the center of the ball of said sleeve and said shoulder thereon, and the axial distance between the end ball and shank shoulder being substantially the same, whereby when said ball sleeve is threaded upon said ball and shank, the center of said sleeve ball coincides with the center of said shank ball.

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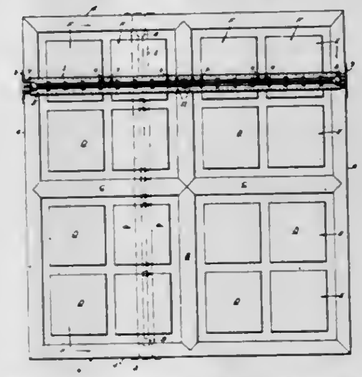
**2,647,325**
**CABINET PULL TEMPLATE**
**Floyd M. Little, Campbell, Calif.**
**Application July 6, 1951, Serial No. 235,455**
**1 Claim. (Cl. 33—174)**



An instrument for spotting holes to be made in a panel, said instrument comprising a rectangular plate having spaced rows of spaced openings extending therethrough, a stop flange carried by and extending outwardly from one face of said plate intermediate the ends thereof, said stop flange lying perpendicular to the rows of openings and extending for the full width of said plate, outwardly bowed straps carried by the face of the plate remote from the flange, said straps lying across a rectilinear path which extends transversely of the plate intermediate the ends thereof, a substantially rigid measuring tape extending in the rectilinear path across the plate beneath and in frictional contact with said straps, and a stop carried by the tape and projecting outwardly therefrom across one side edge thereof for cooperating with the stop flange in holding the plate in a selected position on a panel.

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**2,647,326**
**PRINTER'S GAUGE**
**Charles C. Sauer, Clarksville, Ind.**
**Application October 17, 1950, Serial No. 190,515**
**4 Claims. (Cl. 33—184.5)**



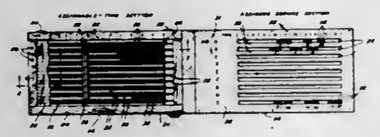
1. A printer's gauge for use in aligning printing forms on a printing chase or frame which comprises, in combination, a straight tubular gauge bar having open ends, telescopically adjusting end closures carried by the bar for adjustably varying the length of the bar with respect to any dimension of chase, the end closures having a shape corresponding to the cross sectional configuration of the bar but terminating short of an inner surface thereof defining a clearance between the end closures and the said surface of the bar, locking means extending through the bar adjacent to the ends thereof and the said clearances and releasably engaging the end closures, the said locking means releasably securing the end closure in adjusted position, a retaining flange on the end closures adapted to engage the outer perimeter of the chase while allowing the gauge bar to be moved along the chase in continuous engagement therewith, longitudinally extending scale graduations on the gauge bar, adjustable pointer means mounted on the gauge bar in sliding registry with the scales, the bar having a locking slot extending longitudinally along a surface of the bar and communicating with the said clearances, means for retaining the pointer means on the gauge bar, and screw members slidably mounted in the slot for securing the pointer means in adjusted position relative to the scale, the screw members being interlocked with means beneath the slot for preventing accidental displacement of the screw member from the slot.

2,647,327
**APPARATUS FOR DISPLAYING VARIABLE INFORMATION IN OFFICES AND ELSEWHERE**
Raymond A. E. Guichard, Paris, France
Application November 10, 1950, Serial No. 194,982
In France November 19, 1949
7 Claims. (Cl. 35—24)



1. Apparatus for displaying variable information, comprising a frame, a plurality of strips individually movable along said frame in longitudinal overlapping relationship to give a visual representation of information by their exposed parts, means on said frame forming a guide for said strips, locating means along said guide, and, individual to each strip, a locating member connected to said strip and movable in directions parallel to the plane of said strip and perpendicular to the length of said strip to engage with and disengage from said locating means in a plurality of positions of said strip, said locating members being normally positioned out of the path of relative longitudinal movement of the lengths of said strips so that each strip can be moved without disturbing the other overlapping strips, a handle for said locating member, and a spring extending from said strip in a direction parallel to the plane thereof and urging said locating member into engagement with said locating means.

2,647,328
**TIME-SERVICE CONTROL APPARATUS FOR AUTO SERVICE STATIONS AND THE LIKE**
Robert F. Ostrander, Woodbridge, Conn.
Application December 22, 1950, Serial No. 202,291
5 Claims. (Cl. 35—24)



1. Time-service control apparatus for service stations, comprising a display board having an assignable-time section, a plurality of removable blocks having indices thereon respectively designating each of a group of workmen at the service station, said section being provided with a line of time-period designations and a plurality of rows of block-receiving spaces extending substantially parallel to the time-period line, each of said rows slidably receiving blocks designating an individual workman, and said blocks being of a size to define a predetermined time-unit with relation to said time-period line, whereby the available time of any designated workman may be determined by inspection of the blocks disposed on said assignable-time section, and pusher means extending transversely of the said rows of spaces and movable thereover to meet certain of the blocks in one or more of the rows and to slide the blocks remaining in said rows toward the ends thereof, and time-controlled means for continually moving said pusher means longitudinally of the display board.

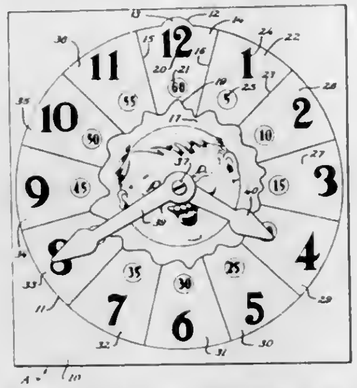
2,647,329
**TACHISTOSCOPIC DEVICE**
Sven Heymann Bloch and Eli Gylling, Skodsborg, Denmark; said Bloch assignor to said Gylling
Application March 12, 1951, Serial No. 215,162
In Denmark March 14, 1950
4 Claims. (Cl. 35—35)



1. A tachistoscopic device comprising a screen plate having a displaying aperture adapted to display an area of a picture carrying surface of which the balance is covered by said screen plate, said area being adapted to contain a series of letters in book letter size forming at least one word, a diaphragm plate displaceable relative to the screen plate, means for guiding the displacement thereof in a defined path in its own surface adjacent and parallel to the screen plate, edges in the diaphragm plate circumferating an exposition aperture positioned within the area of the diaphragm plate covered during the movement of the same in its defined path by the projection of the displaying aperture and being smaller than the said area by at least twice the area of the displaying aperture and having in the direction of its movement a larger dimension than the dimension of the displaying aperture in the same direction, resilient means adapted to move the diaphragm plate from a starting position in which the projection of the displaying aperture is on one side of the exposition aperture to a final position in which said projection is on the other side of said aperture, means for moving said diaphragm plate by hand in its path against the action of said resilient means from the final position to the starting position, means for releasing said moving means when the starting position has been attained thus allowing the diaphragm plate to be moved from the starting position to the final position by the resilient means, means for enclosing a picture sheet having at least one picture surface containing a number of pictures and maintain said sheet movably along a defined surface a part of which is positioned behind the displaying aperture adjacent and parallel to the screen plate and guided during its movement in a path which carries the pictures successively through the projection of the displaying aperture and means for stepwise advancing the sheet.

2,647,330
**EDUCATIONAL PUZZLE**
Silas Morris Ford, St. Paul, Minn.
Application January 6, 1950, Serial No. 137,049
2 Claims. (Cl. 35—39)

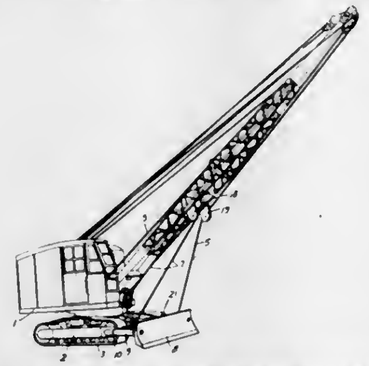
1. A puzzle game including a game piece having a generally circular aperture therein, a removable irregularly shaped center piece located in the center of said aperture, a pair of hands pivotally connected to said center piece, a series of twelve puzzle pieces encircling said center piece and interfitting therewith along an irregular line, a numeral on each of said twelve puzzle pieces, these numerals corresponding in value and location to



the numerals of a clock dial, each of said puzzle pieces having a generally curved outer edge and similar radially extending sides, and interfitting means between one of said twelve game pieces and the periphery of the aperture to definitely locate one game piece relative to the aperture.

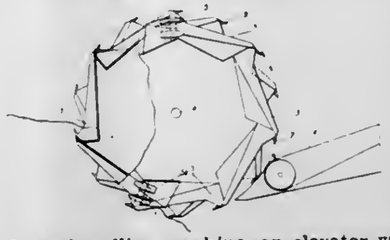


2,647,331
**COMBINATION CRANE AND BULLDOZER**
Ervin A. Brugger, Newton, Iowa, assignor to Koehring Company, Milwaukee, Wis., a corporation
Application August 19, 1946, Serial No. 691,445
5 Claims. (Cl. 37—116)



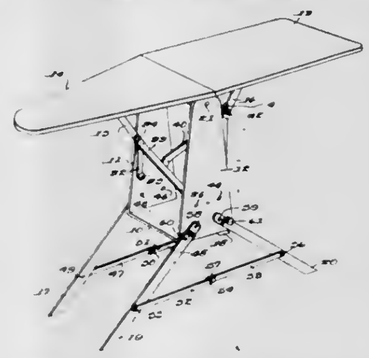
1. In combination, an excavating crane including a traveling crane body traction base, a bucket supporting boom, a bulldozing attachment including a pair of relatively movable arms and means for supporting a blade at the outer ends of said arms for pivotal transverse movement relative the traction base, and independent cables carried by the boom adapted for operating an excavating bucket that may be carried by the boom, one of said cables being connected with the attachment near one end of the blade, and another of said cables being connected with the attachment near the other end of the blade, together with means for operating said independent cables.

2,647,332
**RAPID SHOVELLING DEVICE**
Frédéric Chimani, Strasbourg, France
Application July 23, 1947, Serial No. 762,959
In France July 23, 1946
3 Claims. (Cl. 37—190)



1. In a shovelling machine, an elevator wheel for cooperation with a conveyor belt, comprising two staggered parallel adjacent sets of laterally closed buckets, the buckets including each an outer lateral wall sloping inwardly at an oblique angle toward each other and converging forwardly in the direction of rotation toward the conveyor belt to constrain the material removed through the outer operative periphery to move towards the inner half of the breadth of the wheel at the inner periphery of the buckets, and a collector member substantially trapezoidal in shape with the narrow edge facing forward and rigid with each bucket and projecting beyond the outer operative end of each bucket, laterally of the wheel and adapted to direct the material to be shovelled in the path of the next succeeding bucket.

2,647,333
**FOLDING IRONING BOARD**
Anthony J. Olshefski, Kulpmont, Pa.
Application July 7, 1950, Serial No. 172,530
1 Claim. (Cl. 38—124)

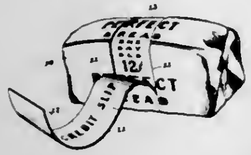


A folding ironing board comprising a board separated at the center providing a base and a sleeve section, a U-shaped foundation element having a rectangular shaped base with upwardly extended triangular shaped arms, means pivotally mounting the base and sleeve sections of the board in the upper ends of the arms, legs pivotally mounted on the lower ends of the arms for movement outwardly of and into parallel relation with the plane of the arms, braces having outwardly converging portion pivotally mounted on the inner surfaces of the arms and a second set of braces connected to the under surfaces of the base and sleeve sections of the ironing board and to the free ends of the braces

connected to the arms for supporting the said base and sleeve sections in outwardly extended positions, folding braces pivotally attached to the said legs for limiting spreading movement of the legs, and clips positioned on the outer surfaces of the said upwardly extended arms of the foundation elements, spaced from the pivotal mountings of the legs and positioned to engage the upper outer surfaces of the legs for assisting the braces in limiting outward movement of the legs and thereby rigidly supporting the ironing board.

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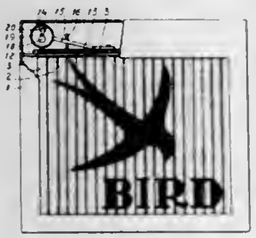
**2,647,334**
**WRAPPER FOR ARTICLES OF MERCHANDISE**
**Everett A. Wilsher and Elmer C. Roh, Grand Rapids, Mich.**
**Application March 12, 1949, Serial No. 81,056**
**1 Claim. (Cl. 40—2)**




A bread wrapper comprising a sheet adapted to wholly encase a loaf of bread and having a legend-bearing portion girdling the loaf of bread and conveying the idea and the price of freshly baked bread on the outer surface thereof and being severable from the main body of the sheet, said legend-bearing portion having another legend on the inner surface thereof conveying the idea of a credit slip, and a second sheet girdling the loaf of bread and underlying the first sheet and having a legend-bearing portion underlying that of the first sheet and conveying the idea and the lower price of day-old bread, the legend-bearing portion of said second sheet being exposable to view upon the severance of the legend-bearing portion of the first sheet from the main body thereof, said second sheet being secured to the first sheet in areas lying outside the girdling severable portion of the first sheet whereby the loaf of bread remains securely and wholly encased by the combined first and second sheets after severance of the girdling severable portion of the first sheet from the main body thereof.

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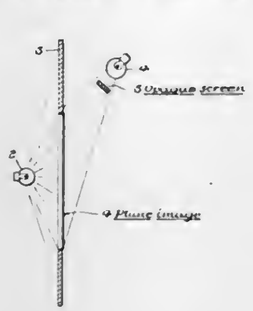
**2,647,335**
**SIGN**
**Jonas Leopold Andersson, Hudiksvall, Sweden**
**Application September 22, 1949, Serial No. 117,201**
**In Sweden August 11, 1945**
**2 Claims. (Cl. 40—76)**




1. A changeable displaying device for an intermittent display of two different signs, the first of which is presented on the one and the second on the other half of a row of mechanically rotatable rod-like members mounted in close juxtaposition in a frame, comprising, in combination, a row of tubular members, a pinion terminating each one of said tubular members, a toothed rack in mesh with all of said pinions, a link member extending substantially in the same direction as the rack and pivoted at one end thereof to said rack and fixed at the other end thereof to an annular member, a motor arranged on the frame and having a protuding shaft entering said annular member, a radially extending arm secured on said shaft within said annular member and having a length exceeding the internal radius of said annular member, and a roller on the free end of said arm rolling in contact with the internal peripheral portion of the annular member at the rotation of said shaft and having an outer diameter considerably less than the internal diameter of said annular member so as to actuate said annular member in the direction of said link member at intervals only, a reciprocating movement thus being imparted to said rack and an intermittently rotary movement to said pinions and tubular members.

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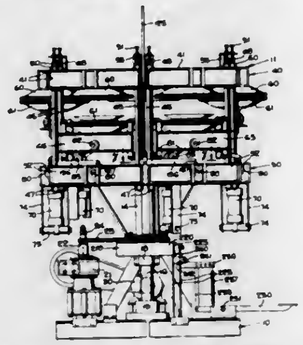
**2,647,336**
**METHOD AND APPARATUS FOR PROVIDING FROM PLANE IMAGES THE APPEARANCE OF SOLID OBJECTS**
**Roger Lannes de Montebello, Paris, France**
**Application August 26, 1947, Serial No. 770,628**
**In France February 24, 1944**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires February 24, 1964**
**18 Claims. (Cl. 40—130)**




1. The method for creating with a plane image the impression of the actual presence of an object illuminated by at least one luminous source of determined intensity and position comprising providing a plane image in which the very dark areas are made opaque and the very bright areas are made thin, illuminating said image with a second source of greater intensity than the first-mentioned source, said image when displayed with said second source having its zones of respective brightnesses substantially equal to the brightnesses of the corresponding zones of the actual object as seen under said first-mentioned source, concealing from the observer the actual intensity and position of the second source, and displaying the image in illumination giving to the observer the impression that the represented object is illuminated by a luminous source whose intensity and position correspond to those of the source that illuminated the actual object.



**2,647,337**
**APPARATUS FOR PRESSING PRINT TISSUE ONTO ARTICLES**
**Ralph H. Martin, Los Angeles, Calif., assignor to Vernon Kilns, Los Angeles, Calif., a corporation of California**
**Application August 14, 1950, Serial No. 179,344**
**4 Claims. (Cl. 41—1)**



1. In a device of the class described, a rotary turret having a plurality of pairs of diaphragms with the diaphragms of each pair being supported for movement toward and away from one another, means for rotating the turret, means for successively causing opening and closing movements of the diaphragms whereby a print tissue-carrying article can be inserted between or withdrawn from between the diaphragms, and means for supplying air under pressure to behind the diaphragms only when the diaphragms are together.

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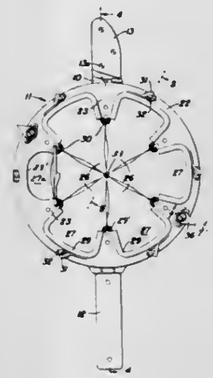
**2,647,338**
**HAMMER SHROUD FOR REVOLVERS**
**John M. McNally, Newington, Conn., assignor to Colt's Manufacturing Company, Hartford, Conn., a corporation of Connecticut**
**Application November 3, 1949, Serial No. 125,311**
**3 Claims. (Cl. 42—66)**



1. For a revolver having a frame and having a hammer extending beyond the frame which hammer is relatively movable in an arcuate path and has a cocking projection, a shroud for the said hammer separate from and attachable to the said frame and having two similar transversely spaced longitudinal walls adapted to be located in fixed positions at opposite sides of the hammer, the space between the said walls being outwardly exposed and the said walls being shaped at their inner edges to approximately fit the frame and the said walls having exposed outer edges shaped to provide arcuate faces which generally conform to the path of movement of the outermost portion of the cocking projection on the hammer and which are spaced slightly inwardly from the said path so that the said projection is outwardly exposed for manual engagement, each of said walls having a laterally offset forward projection spaced from each other for engaging lateral faces of said frame.

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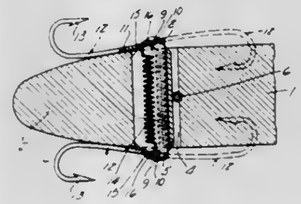
**2,647,339**
**METHOD OF AND APPARATUS FOR MANIPULATING FISHLINES**
**Kenneth B. Donnell, Rochester, N. Y.**
**Application March 25, 1949, Serial No. 83,402**
**9 Claims. (Cl. 43—4.5)**



1. A fishing reel comprising a support, a flattened spool rotatable on said support, said spool having a circumferential surface on which a line provided with at least one lure can be wound, and at least one pocket enclosed by the circumferential surface of said spool and accessible from one flattened side of the spool to receive said lure.

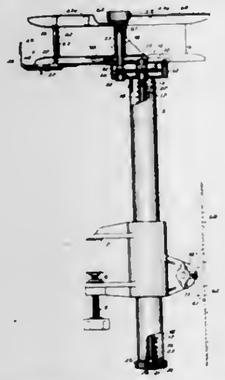
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**2,647,340**
**ARTIFICIAL BAIT**
**Harry H. Walker and Harold L. Walker, St. Paul, Minn.**
**Application October 10, 1951, Serial No. 250,694**
**5 Claims. (Cl. 43—42.41)**



1. A fishing lure comprising a body having therein a transversely-extended bore intermediate its ends, a hook element including a shank and a barbed end, means pivotally mounting the shank of said hook element over said bore for swinging movements of the barbed end thereof from an operative position wherein said barbed end extends laterally-outwardly of said body rearwardly of said bore to an inoperative position wherein the barbed end is in engagement with said body forwardly of said bore, and a coil spring in said bore, said coil spring having one end anchored to said shank in offset relation to the pivotal connection thereof, said spring biasing said hook element toward engagement with said body in either of said positions.

**2,647,341**
**FISHING REEL**
**Kenneth B. Donnell, Rochester, N. Y.**
**Application March 8, 1950, Serial No. 148,355**
**4 Claims. (Cl. 43—54.5)**



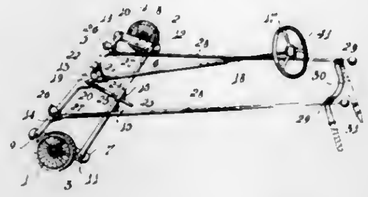
2. In a combined reel and bait retainer, a frame, and a flattened spool comprising a hub rotatably mounted on the frame, two discs secured in spaced relation on the respective ends of said hub, partitions bridging the space between said discs and radiating from said hub to divide said space into sector-shaped bait pockets, each partition having at its outer end an integral arcuate portion extending to the outer end of an adjacent partition, the several portions together defining a peripheral surface closing the ends of said pockets and on which a fish line can be wound, one of said discs having openings therein communicating with said pockets.

**2,647,342**
**DOLL CONSTRUCTION**
**Vivian A. Patterson, Opelousas, La.**
**Application June 4, 1951, Serial No. 229,770**
**1 Claim. (Cl. 46—138)**



For use in constructing a hand suspended and dangled animated dancing doll, a prefabricated skeleton framework comprising a flexibly resilient elongated flat spring bent upon itself intermediate its ends and having free end portions brought together and secured to one another and providing an expansible and contractible loop-shaped body, said body being responsive to impulses imparted thereto by manual actuation, a pair of duplicate flexibly resilient flat springs having corresponding ends converging and secured together and defining a V-shaped member, said flat springs serving essentially as vibratory arms and being secured intermediate their ends to the bight portion of said loop-shaped body with the latter thus projecting into the crotch provided between the converging ends of said arms, a suspension chain having one end secured between said converging end portions, a second pair of duplicate flexibly resilient flat springs, the latter being disposed in opposite relationship and performing as vibratory legs, and means connecting corresponding upper end portions of said legs to the lower end portion of said body.

**2,647,343**
**STEERED TRUNDLE TOY**
**Alberto Leopoldo Julio Zileri and Michel Freudenstein, Buenos Aires, Argentina**
**Application October 18, 1950, Serial No. 190,757**
**3 Claims. (Cl. 46—220)**



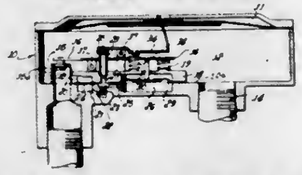
1. A steered trundle toy comprising a pair of wheels, a linked lever frame in the form of an articulated parallelogram having a first pair of relatively long levers and a second pair of relatively short levers, a steering wheel, a steering shaft having a free end, said steering wheel being mounted on said free end of said steering shaft, a journal having two ends, for said steering shaft, said journal being supported by one of said levers of said first pair of relatively long levers and adjacent thereto, the axis of said journal forming an acute angle with the plane defined by said parallelogram, said steering shaft projecting out on one end of said journal and extending beyond the other lever of said pair of relatively long levers and having at the end thereof said steering wheel, the length of said projecting part of said steering shaft between said journal and said steering wheel being sufficient to provide the necessary distance between said parallelogram and said steering wheel to provide room for an operator of the toy, a portion of said steering shaft emerging out of the other end of said journal forming a crank substantially in a parallel plane with regard to the plane formed by said parallelogram, the axis of said crank forming with the axis of said steering shaft an acute angle substantially equal to the angle formed between said journal and said parallelogram plane, said crank being operatively connected with the other lever of said pair of relatively long levers, said levers of said second pair of relatively short levers each supporting a stub shaft having a free end on which one wheel of said pair of wheels is rotatably mounted, a pair of bars connected to the lever supporting said journal said pair of bars being in spaced relationship with each other, one on each side of said steering shaft, said bars having slots, a belt passing through said slots, said belt having two free ends provided with separable pressure fastening means, said steering shaft and said bars being of the telescopic type.



**2,647,344**

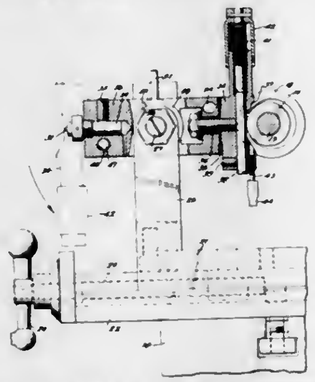
**WITHDRAWN**

**2,647,345**
**FLUID PRESSURE REGULATOR WITH TIGHT SHUTOFF ACTION**
**Harold W. Ensign, Fullerton, Calif., assignor to Ensign Carburetor Company, Huntington Park, Calif., a corporation of California**
**Application June 25, 1951, Serial No. 233,383**
**10 Claims. (Cl. 50—10)**



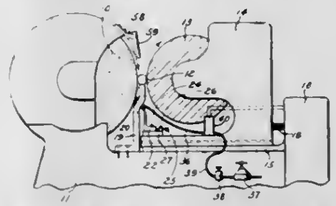
1. In a fluid pressure regulator, a body and a main diaphragm enclosing a diaphragm chamber, an inlet and an outlet for the chamber, a main valve controlling the inlet, an auxiliary diaphragm forming with the body an auxiliary diaphragm chamber, connective means whereby the auxiliary diaphragm may exert force on the inlet controlling valve in a valve-closing direction, a pressure communication passage connecting the auxiliary chamber with the inlet at a point outside the valve, a restriction in said communication passage, a pressure relief outlet communicating with the auxiliary chamber, an auxiliary valve controlling the pressure relief outlet, and connective means operative between the main diaphragm and the two valves whereby movement of said diaphragm inwardly into its chamber first opens the auxiliary valve and then opens the main valve.

**2,647,346**
**GRINDER GAUGE**
**Prentice H. Conradson, Chicago, Ill., assignor of one-half to Thomas P. Slattery, Dearborn, Mich.**
**Application October 12, 1950, Serial No. 189,877**
**10 Claims. (Cl. 51—165)**



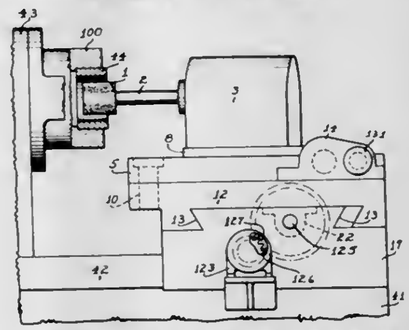
1. A grinder gage comprising combination with a rotatable grinder wheel having a conducting portion, a support, a member on the support extending toward the wheel, means at the end of the member formed with a bore transverse to the axis of the wheel and tangent to the surface of the wheel, said means being cut away at the side of the bore adjacent to the wheel, and a rod of conducting material slidably and rotatably mounted in the bore to engage a conducting portion of the wheel through the cut away portion of said means.

**2,647,347**
**GAUGING APPARATUS FOR GRINDING MACHINES AND THE LIKE**
**Frank W. Blanchette, Montclair, N. J.**
**Application February 15, 1951, Serial No. 211,135**
**14 Claims. (Cl. 51—165)**



1. A grinding machine comprising a grinding wheel, a support for said grinding wheel, an adjustable slide on said support, work positioning means carried by said slide for arranging the work to contact the grinding wheel at a grinding zone, a body carried by said slide, said body having a passage terminating in a fluid leakage orifice facing the operating surface of the grinding wheel in such closely spaced relation therewith that the grinding wheel directly controls the flow of air through the orifice, means for supplying air under regulated pressure to said body passage, said means for supplying air including a connection means to said body passage, and means operatively connected to said connection means and responsive to air flow through said orifice for indicating an increase in the space between the orifice and the grinding wheel beyond a predetermined limit.

**2,647,348**
**FEED MECHANISM FOR INTERNAL GRINDING MACHINES**
**Robert S. Hahn, Northboro, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts**
**Application February 20, 1952, Serial No. 272,570**
**10 Claims. (Cl. 51—165)**

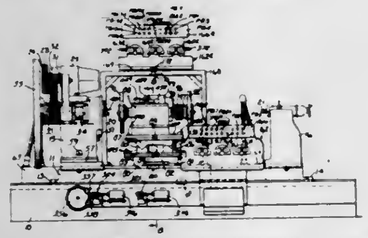


1. In an internal grinding machine, a work support, a wheel support having a grinding tool, said

supports being relatively movable to feed the tool against a workpiece in said work support, feed means to feed said tool against the workpiece, gage means to measure the deflection in one of said supports resulting from the force between tool and work, and rate control means for said feed means responsive to said gage means whereby said deflection is maintained substantially constant during a part of the grinding operation.

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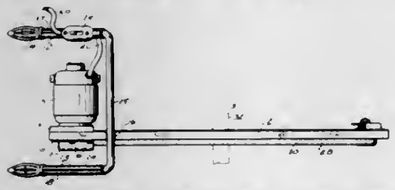
**2,647,349**
**GRINDING MACHINE**
**Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**
**Original application August 4, 1951, Serial No. 240,378. Divided and this application June 19, 1952, Serial No. 294,311**
**4 Claims. (Cl. 51—166)**



1. In a grinding machine having a base, a grinding wheel head adjustably mounted thereon, precise adjusting mechanism to swivel said head in a horizontal plane, a rotatable grinding wheel spindle, spaced bearings on said head to support said spindle, said spindle being arranged for an axial movement within said bearings, a grinding wheel on said spindle having a frusto-conical operative face, the operative element of said face being parallel with an element of the surface to be ground, and a manually operable mechanism to impart an axial feeding movement of the wheel spindle within its bearings to produce a precise feeding movement to the grinding wheel.

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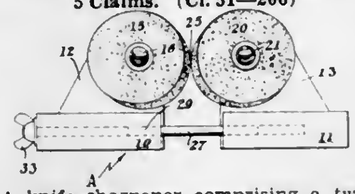
**2,647,350**
**ABRASIVE BELT TOOL**
**John Y. Blazek, Maple Heights, Ohio, assignor to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio**
**Application June 14, 1950, Serial No. 167,978**
**3 Claims. (Cl. 51—170)**



3. A manually portable and operable surface finishing tool comprising: a frame rotatably supporting spaced pulleys; an abrasive belt on the pulleys comprising a working belt flight extending longitudinally between the pulleys; a belt driving motor on the frame; a pair of side-by-side spaced handles on the frame for manually supporting the frame, motor and belt; the handles disposed so that when the belt flight is in a position of use to work a surface thereunder, the handles are above one end portion of the belt flight and the belt flight extends longitudinally away from the handles, and so that when both handles are manually rocked in unison in the same direction about an axis transverse to the belt flight, the belt flight is rocked bodily about said axis toward and from the surface to be worked.

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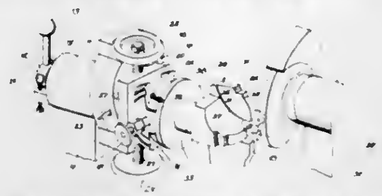
**2,647,351**
**KNIFE SHARPENER**
**Wendelin P. Arnold, Lethbridge, Alberta, Canada**
**Application January 12, 1953, Serial No. 330,771**
**In Canada February 19, 1952**
**5 Claims. (Cl. 51—206)**




1. A knife sharpener comprising a two-piece base unit in which the major planes of the two base pieces are co-planar; a wheel-supporting element rigidly secured to each base piece; and an abrasive wheel rotatably mounted by each wheel-supporting element; said abrasive wheels being disposed with their peripheries in contact, with their axes of rotation intersecting at an acute angle, and with their planes of rotation forming an acute angle with the major plane of the base, whereby said wheels will rotate as a knife blade is drawn therebetween at their point of contact; said two base pieces being so connected that they are held in the same major plane but may be adjusted toward one another to maintain contact between the abrasive wheels as the latter wear; and means for locking the two base pieces in their adjusted positions.

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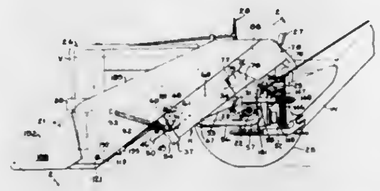
**2,647,352**
**RADIAL BACK-OFF PROCESS AND APPARATUS FOR GRINDERS**
**Frank J. Lamberty, Fox Lake, Ill.**
**Application June 7, 1948, Serial No. 31,463**
**15 Claims. (Cl. 51—225)**



5. An apparatus for back-off grinding a rotary cutter having a land with a cutting edge thereon rotatable about the normal axis of the cutter, including means for supporting the cutter for rotation about a secondary axis which is constantly in the same plane with and intersecting at an acute angle said normal axis, a grinding wheel, means for locating the grinding wheel with respect to the cutter to contact an end cutting edge of the cutter at a point along a line disposed at right angles to both axes at the point of their intersection, means secured to the supporting means for moving the cutter about the secondary axis in engagement with said wheel, and means for shifting the cutter towards the grinding wheel to separate said axes in a direction normal to both of them.



**2,647,353**
**CORN HARVESTING ATTACHMENT FOR VEHICLES**
**Russell L. Dort, Davenport, Iowa, assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application April 27, 1949, Serial No. 89,834**
**28 Claims. (Cl. 56—18)**

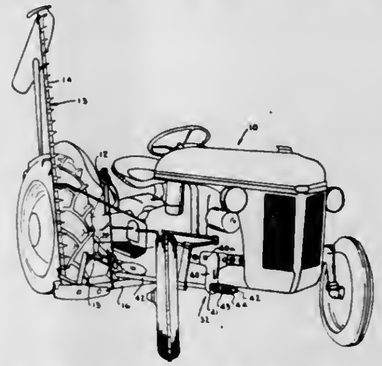


1. An implement attachment, for a vehicle of the type having a longitudinal body provided with laterally outwardly projecting carrying structure and including a power take-off element, comprising: an elongated hollow support having front and rear ends and positionable alongside the body with its rear end adjacent the carrying structure; means at said rear end for connecting the support on a transverse pivot axis to the carrying structure; a drive-mechanism housing having front and rear mounting faces; means for rigidly securing the support and housing together via the front end of the former and the rear face of the latter; crop-gathering means having a rear mounting portion; means for rigidly sustaining the gathering means on the housing via said rear mounting portion of the former and the front face of the latter; crop-handling means positionable to extend lengthwise and rearwardly as respects the support, and including a mounting portion; means for rigidly sustaining the crop-handling means on the housing via said mounting portion of the former and one of the faces of the latter; drive mechanism in the housing, including a plurality of shafts projecting exteriorly of the housing; means for connecting one of the shafts to the gathering means; means for connecting another of the shafts to the crop-handling means; a drive shaft within the hollow support; means for connecting one end of said drive shaft to another of said housing shafts; and means for connecting the other end of the drive shaft to the vehicle power take-off element.

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**2,647,354**
**RESILIENT UNIVERSAL MOUNTING FOR TRACTOR MOWERS**
**Joseph E. Horste, Belleville, Mich.**
**Application August 16, 1949, Serial No. 110,605**
**6 Claims. (Cl. 56—25)**

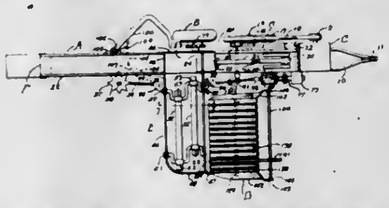
1. In combination with a tractor having a power take-off, a supporting arm extending laterally from said tractor and having a resilient universal mounting operatively connecting the same to said tractor, a sickle pivotally connected to said supporting arm by means of a horizontal pivot, a rod connected to said supporting arm at a point spaced outwardly from said tractor and having a resilient connection to a forward portion of said tractor, a sickle driving pulley mounted on said supporting arm, and belt driving means operatively connected to said pulley and said power take-off, rearwardly of said supporting arm, whereby when the sickle encounters an obstruction and swings rearwardly against the tension of said resilient



means, the belt driving means will become ineffective.

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**2,647,355**
**PICKUP BALER**
**Albert R. J. Luke, Toronto, Ontario, Canada, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada, a corporation of Canada**
**Application March 5, 1949, Serial No. 79,800**
**2 Claims. (Cl. 56—343)**



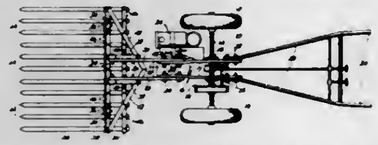
1. In a pick-up baler of the character described, having a wheel-carried frame, a power source on said frame, a pick-up elevator, a transverse conveyor having an inlet for receiving the hay from the elevator, a wad-board and wad-board well having an inlet from said transverse conveyor, a packing chamber and a plunger therefor comprising in combination, said transverse conveyor comprising a bottom plate with vertically arranged side panels and an outer end panel forming a trough with an inlet from said pick-up elevator, its inner end having an outlet into said wad-board well, a pair of spaced shafts transversely and rotatably mounted on said side walls and a distance above said bottom plate, each said shafts having a pair of cranks, walker bars rotatably mounted on aligned cranks, each having spaced depending fingers adapted to engage the hay discharged from said pick-up elevator and move the hay intermittently into said wad-board well largely when the wad-board is out of the well.

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**2,647,356**
**POWER-OPERATED PUSH RAKE**
**Johnny Lee Adams, Independence, Mo.**
**Application May 21, 1951, Serial No. 227,390**
**1 Claim. (Cl. 56—400.14)**

In combination with a motor driven garden tractor having ground-engaging wheels interconnected by an axle and a frame carried rotatably by said axle intermediate said ground-engaging wheels said frame including a pair of

horizontally disposed, spaced apart bars, a push rake including a pair of support bars, raking means comprising vertically disposed plates attached to the forward ends of said support bars, a pair of bars carried by said plates and disposed transversely to said plates, a plurality of teeth fixed beneath said transverse bars and extending forwardly therefrom, a guard rail carried by said transverse bar and disposed upwardly therefrom, means for removably attaching said support bars to said frame bars, said attaching means comprising a pair of longitudinally spaced apart bolts



carried in the rearward end portion of each of said support bars, the foremost of said bolts being engaged in a slot formed in the forward end of each of said frame bars, and the rearmost of said bolts being engaged in a slot formed on the lower edge of each of said frame bars in spaced relation from the forward end thereof, and handle bars rigidly attached to the rearward ends of said frame bars and extending rearwardly and upwardly therefrom, whereby said push rake attachment may be manually lowered into loading position or raised to a carrying position.

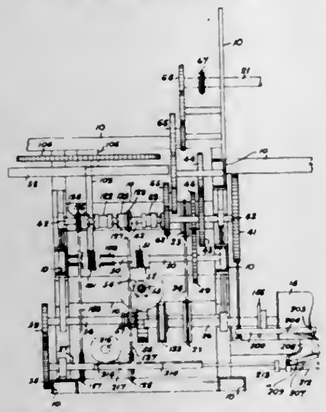
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**2,647,357**

**RING SPINNING MACHINE FOR SPINNING FIBROUS MATERIAL**

**William Harold Watson, Werneth, Oldham, and Stanley Lewis Cole, Helmshore, Rossendale, England, assignors to T. M. M. (Research) Limited, Helmshore, Rossendale, England**

**Application August 20, 1949, Serial No. 111,488**
**In Great Britain August 21, 1948**
**16 Claims. (Cl. 57—52)**



1. A ring spinning machine of the type described incorporating gripper means for automatically removing full cops from the spindles and for replenishing the spindles with fresh tubes, ring plates, a chain controlling the movement of the ring plates, a lever system to slacken or tighten the chain controlling the movement of the ring plates whereby to cause an extra falling movement of the ring plates during the doffing cycle to permit winding of a number of turns of thread onto the spindle blade and then to return the ring plates to normal spinning position, spindle rails mounted on screw-threaded rods, a drive for the rods, a lever system and clutches controlling the drive for the screw-threaded rods on which the spindle rails are mounted whereby the spindle rails are raised and lowered vertically, the spindle rails being caused to make a quick upward movement to a doffing position after completion of the cops, and, while the spindles are still revolving, a slight reverse downward movement of the spindles to effect doffing and a quick return vertical movement to initial position for replenishment of the spindles, now stationary, with fresh tubes and for subsequent restarting of a spinning operation, a lever and sector system in operative association with the spindles whereby the spindles are given a slight turning movement in the reverse direction to spinning simultaneously with the downward movement of the spindle rail and a turning movement in the direction of spinning in the upward movement of the spindle rails for facilitating doffing, delivery draw rollers, a lever system and clutch for stopping the delivery of material from the delivery draw rollers, a tin roller driving shaft, a drive for said shaft, a lever system and braking means for stopping the tin roller driving shaft, a lever system and clutch for taking out the drive to the tin roller shaft, lappets, a lever system and interconnected slide bars for moving the lappets relatively to the spindles, a main control cam for controlling the aforesaid operations of the spinning machine in timed sequence, a drive for said cam, a lever system and clutch in operative association with the spindle rails and cam to bring the main control cam into operation to commence a doffing cycle, and a lever system controlled by said cam to take out the drive to said cam at the end of a doffing cycle.

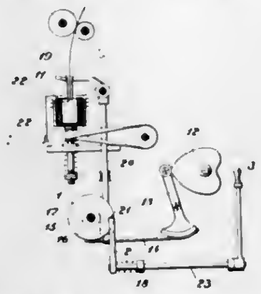
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**2,647,358**

**CENTRIFUGAL METHOD FOR THE WET SPINNING OF NATURAL FIBERS AND APPARATUS FOR CARRYING OUT THIS METHOD**

**Aldo Bolelli, Bologna, Italy**

**Application March 5, 1951, Serial No. 213,832**
**In Italy December 27, 1950**
**3 Claims. (Cl. 57—76)**



1. In apparatus for wet centrifugal spinning of natural fibers, a vessel rotatable round its axis wherein the annulus of yarn spun is formed, a yarn holder movable in a vertical direction upwardly, a cam controlled shaft for moving said yarn holder upwardly, said yarn holder and shaft being movable downwardly by gravity to return to the initial position, and means manually operable for holding said yarn holder in the uppermost position when the apparatus is stopped.

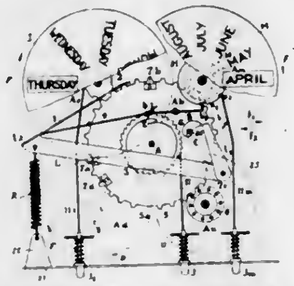


**2,647,359**

**MECHANISM FOR AUTOMATIC ANNUAL DATE INDICATOR**

**Charles A. Balzeau, Vaucresson, France**

**Application September 27, 1948, Serial No. 51,476**
**In France October 6, 1947**
**6 Claims. (Cl. 58—5)**




1. In a mechanism comprising a frame, a ratchet wheel having a spindle rotatably borne therein and a control pawl for said ratchet wheel arranged to effect reciprocation strokes in tangential relationship with said ratchet wheel, the combination of a camming disk having a notched periphery fast with said ratchet wheel spindle so as to turn with said ratchet wheel; a control disk having a notched periphery, rotatably borne in said frame; a skipping lever pivotally supported in said frame at a point intermediate its ends for rocking movement, said lever being adapted and arranged to have one of its ends in contact with the periphery of said camming disk and its other end in contact with the periphery of said control disk, the first named end being further adapted and arranged to provide an exposed incline for causing said pawl to ride thereon and thus be held out of control contact with said ratchet wheel in one position of said skipping lever; and means borne in said frame for reciprocating said pawl and rotating said control disk in timed relation.

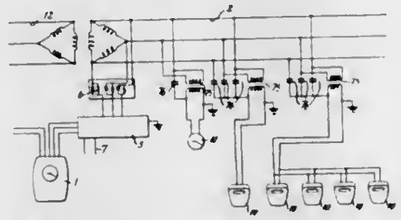
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**2,647,360**

**ELECTRIC TIME SYSTEM WITH ELECTRONIC SELF-REGULATION**

**John L. Wagner, Endwell, Washington Webb, Endicott, and Robert N. Eichorn, Vestal, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Application June 28, 1949, Serial No. 101,884**
**2 Claims. (Cl. 58—35)**



1. In combination with a delta connected alternating current power supply line having load devices connected across phases thereof, a generator for producing signal impulses of frequency higher than that of the alternating current on said supply line, a ground connection, means for coupling said generator between said ground connection and each of the wires of said supply line, said last means including means to interpose a high impedance to said alternating current between said supply line wires and said ground connection, time controlled means for causing said generator to impress said signal impulses on all of the wires of said supply line through said coupling means in the same time phase, a synchronous-motor-operated time keeping device connected across a phase of said supply line, a receiver including circuit means selectively responsive to said impulses for controlling said time keeping device, means connecting said circuit means to ground, and capacitative coupling means for transmitting said signal impulses from all of the said supply line wires to said circuit means.

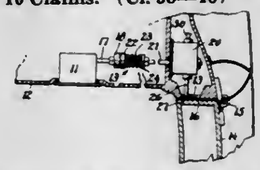
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**2,647,361**

**DOOR ACTUATED CLOCK WINDING MECHANISM**

**Morris Goodman, Indianapolis, Ind.**

**Application January 10, 1952, Serial No. 265,899**
**10 Claims. (Cl. 58—46)**



1. In an automotive vehicle having a door and a clock, said clock having a main spring and an element rotatable to wind said main spring, a member movably supported on said vehicle, means yieldably urging said member to a position in the path of closing movement of said door, said door engaging and shifting said member against the tendency of said means as said door moves toward closed condition, and means providing a driving connection between said member and said element.

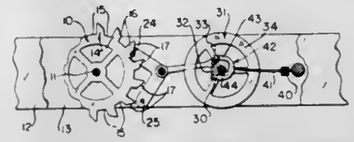
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**2,647,362**

**STRAIGHT SPRING CONTROLLED ESCAPEMENT REGULATING SYSTEM**

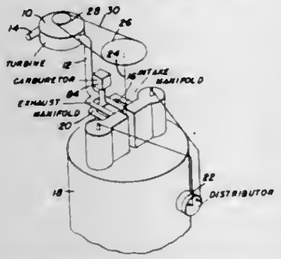
**Paul H. Fidelman, New York, N. Y.**

**Application November 2, 1949, Serial No. 124,967**
**2 Claims. (Cl. 58—117)**



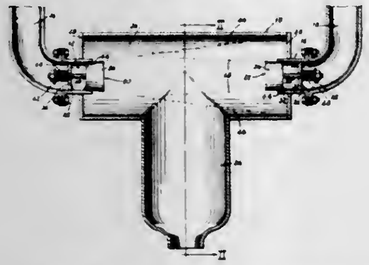
1. In an escapement system for a wound spring actuated motor, a scape wheel actuated by said wound spring, a pallet operatively associated with said scape wheel, said pallet having an arm extending away from said scape wheel, said arm having a forked end, a regulating wheel rotatably supported on a staff in overlapping relation with said pallet arm for rotation in a plane parallel to the plane of the pallet arm, a driving pin on said regulating wheel engaging within said forked pallet arm end, a straight spring supported by one end in approximately diametrically opposed relation to said pallet arm with respect to said regulating wheel and overlapping said wheel with its free end, a recoil pin on said regulating wheel, and a U-shaped member on the free end of said spring arranged to have its side encompass said staff and said recoil pin.

2,647,363
**COMBINED INTERNAL-COMBUSTION ENGINE AND TURBINE**
John Lawrence Stott, Saranac Lake, N. Y.
Application October 28, 1948, Serial No. 57,003
3 Claims. (Cl. 60—13)




1. A combustion products generator comprising a tube having end walls removably attached thereto, said end walls having apertures therethrough in communication with hollow cylinders integral with said end walls and having an outer wall, igniting means secured in said end walls and said outer wall, a piston secured in each of said cylinders, rods secured to said pistons, an orifice in each of said cylinders in communication with a common duct, valves in said common duct, cams secured to said shaft between said end and outer walls for actuating said valves, and wabbler disks secured to said shaft for selective actuation of said pistons upon rotation of said shaft, means driving said shaft, and power take-off means connected to said shaft.

2,647,364
**PULSE JET ENGINE WITH SPONTANEOUSLY IGNITABLE FUEL AND OXIDIZER**
Logan L. Dreibelbis, San Juan, Tex., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application September 10, 1948, Serial No. 48,700
3 Claims. (Cl. 60—35.6)



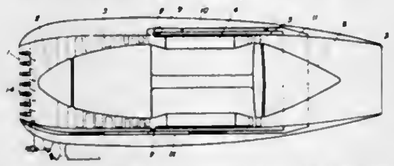
2. In a jet propulsion device adapted to employ a liquid propellant made up of a plurality of components which ignite spontaneously upon contact with each other, the combination of a combustion chamber including a closed ended, elongated combustion section and an exhaust section opening into said combustion section intermediate the ends thereof, said exhaust section having an outlet opening of fixed cross section throughout the operating cycle of the propulsion device, substantially unrestricted conduit means opening into the opposed ends of said combustion section adapted to supply said components to said combustion section for spontaneous ignition therein, and valve means in the combustion section ends of said conduit means biased to shut off flow out of said ends when the pressure in said combustion section approaches the pressure in said conduit means, said valve means including shaped surfaces differentially inclined relative to the longitudinal axis of said combustion section forming the components supplied into said combustion section into diverging cones of different slopes intersecting adjacent one end of said combustion section.

2,647,365
**RESO-JET MOTOR**
Elman B. Myers, Pompton Plains, N. J.
Application February 19, 1946, Serial No. 648,790
4 Claims. (Cl. 60—35.6)



1. In a cyclically operating reaction motor having a fuel-air mixing chamber, an axially aligned air inlet means communicating with said chamber at one end, and having a peripheral shoulder normal thereto and facing said chamber, fuel inlet means in said chamber, and a combustion tube axially coextensive with said chamber and having intake and exhaust ends, the said intake end being in open communication with the said mixing chamber at its other end; ignition means in said combustion tube adjacent the exhaust end of said tube, and a sleeve forming a constriction in said combustion tube adjacent the said intake end, the inside of said sleeve being in the form of a venturi having a sharp edge with a shoulder normal to said venturi at its throat facing the said mixing chamber.

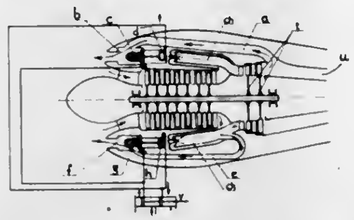
2,647,366
**MEANS FOR PREVENTING ICE FORMATION IN JET PROPULSION AND GAS TURBINE ENGINES**
William J. McCann, Berea, Ohio
Application June 24, 1946, Serial No. 678,758
2 Claims. (Cl. 60—35.6)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In an aircraft power plant, a gas turbine engine having a compressor, combustion equipment in which air from the compressor is heated, and a turbine driven by the heated air, a casing enclosing said power plant and having an air intake at its forward end communicating with said compressor, said casing having an exhaust region aft of said turbine, a plurality of hollow tubes having perforations therein and mounted in said air intake, a heat exchanger in said exhaust region, means connected to the heat exchanger for conducting a quantity of air from said compressor to said heat exchanger in order to heat the quantity of air, an air duct extending from said heat exchanger and terminating at said air inlet, and an air distributing manifold connected to said tubes and to said air duct for supplying heated air to said tubes.

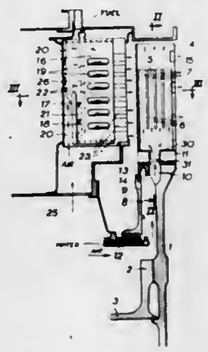


2,647,367
**MEANS FOR THE AERODYNAMIC BRAKING OF AIRCRAFT**
Marcel H. L. Sédille, Paris, France, assignor to Societe Rateau (Societe Anonyme), Paris, France, a company of France
Application February 10, 1948, Serial No. 7,497
In France March 21, 1947
4 Claims. (Cl. 60—35.54)



4. In an aircraft driven by a reaction jet turbine fed with hot gases from combustion means, the combination of a front exposed surface having a plurality of apertures therein directed frontwardly and regularly spaced along said surface, a valve for controlling each aperture, pipe means for delivering gases from said combustion means to some of said apertures, other pipe means for delivering gases from the effluent of said turbine to the other apertures and means for opening and closing the valves for all apertures simultaneously.

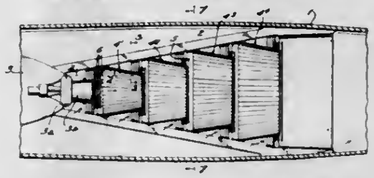
2,647,368
**METHOD AND APPARATUS FOR INTERNALLY COOLING GAS TURBINE BLADES WITH AIR, FUEL, AND WATER**
Heinrich Triebbnigg and Otto David, Decize, France, assignors to Hermann Oestrich, Decize, France
Application May 8, 1950, Serial No. 160,724
In France May 9, 1949
12 Claims. (Cl. 60—39.05)



1. In the method of operating a gas-turbine of the type having internally air-cooled ducted blades and an after-burner, the step which comprises feeding into the air-ducts of said blades a cooling mixture consisting of air and an atomized cooling liquid which includes a combustible fuel component so that the cooling mixture issuing from said air ducts may be subjected to post-combustion in the after-burner.

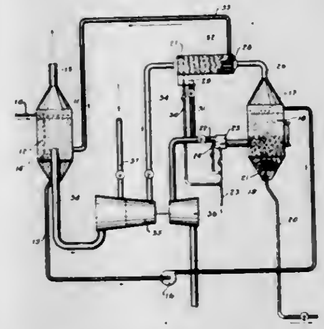


2,647,369
**COMBUSTION CHAMBER FOR FLUID FUEL BURNING IN AN AIR STREAM OF HIGH VELOCITY**
René Leduc, Toulouse, France
Application February 12, 1948, Serial No. 7,768
In France September 6, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 6, 1966
13 Claims. (Cl. 60—39.36)



1. A combustion chamber for fluid fuel burning in an air stream of high velocity comprising in combination, a tubular outer wall; a plurality of annular baffles coaxially arranged with respect to said outer wall and forming a plurality of coaxial open-ended chambers; fuel burners arranged in said chambers; and guide vanes arranged at the entries of said chambers, said guide vanes being arranged in groups having right and left handed inclinations alternating circumferentially.

2,647,370
**WATER HEATING SYSTEM**
Ernest B. Miller, Houston, Tex., assignor to Jefferson Lake Sulphur Company, New Orleans, La., a corporation of New Jersey
Application January 31, 1950, Serial No. 141,431
3 Claims. (Cl. 60—39.57)

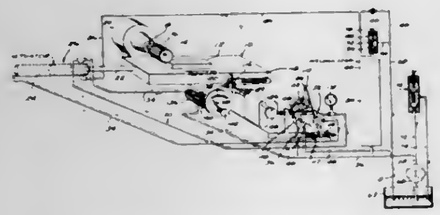


1. A water heating system of the character described, comprising in combination, a water heating tank; a conduit connected to supply water under pressure to the tank; a discharge conduit connected to the bottom portion of the tank; means for maintaining a water level in the bottom portion of the tank; a submerged gas burner in the bottom of the tank; an air compressor connected to the burner to supply combustion supporting air thereto; a gas driven turbine connected to drive said air compressor; an outlet flue for the products of combustion connected to said tank delivering flue gas therefrom and connected to drive said turbine; a heat exchanger through which the products of combustion are passed to raise their temperature for driving said turbine; a vertical economizer tank connected to supply feed water to the heating tank; a feed water

supply pipe connected to the economizer tank having a spray head in the upper portion thereof; an exhaust conduit from said gas driven turbine connected to said economizer tank to discharge exhaust gas in direct contact with the sprays of feed water; and an outlet flue connected to the upper end of the economizer tank.

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2,647,371
**HYDRAULIC MACHINE TOOL DRIVE**
Albert A. Ericson, Massapequa Park, N. Y., assignor to The Farmingdale Corporation, a corporation of New York
Application December 9, 1944, Serial No. 567,438
2 Claims. (Cl. 60—51)



1. A hydraulic feed for machine tools comprising an actuator for bringing about relative feed between the tool and the work, a source of liquid under pressure, a pressure line leading from the pressure source to the actuator, a main control valve in said line movable between predetermined settings for each actuation of the actuator, said actuator in said settings restricting the flow of liquid through said line, adjustable means for adjusting such predetermined settings, and means for supplementing the supply of liquid under pressure to the actuator without changing the established setting of said adjustable means comprising a booster line by-passing the main control valve for conducting liquid under pressure to the actuator and a manually-operated booster valve actuable to permit a flow of liquid through said booster line to the actuator to increase the power of the actuator by supplementing the flow to the actuator through the main control valve.

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2,647,372
**INTERNAL-COMBUSTION ENGINE POWER UNIT FOR LOCOMOTIVES**
Louis Frederick Rudston Fell, Littleover, England, assignor to Fell Developments Limited, London, England, a British company
Application August 29, 1946, Serial No. 693,613
In Great Britain August 29, 1945
7 Claims. (Cl. 60—97)

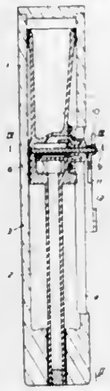
1. A power unit for a locomotive comprising in combination at least two main internal combustion engines, transmission mechanism from each engine through which the wheels of the locomotive are driven, each transmission mechanism including a fluid coupling, means for braking the output member of said coupling, and a differential gear through which the torque is transmitted from each of the said main engines to the driving wheels, an auxiliary internal combustion engine, a blower driven by the said auxiliary engine and supplying air to each of the said main engines, and means operating in connection with said braking means for controlling the air delivery to the said main engines whereby the power developed by the said main engines is maintained substantially constant throughout their running



speed range and the engine torque diminishes as the speed increases within the said range.

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2,647,373
**PILE DRIVING HAMMER**
Noel Gonne Bell, South Kensington, London, England
Application April 16, 1951, Serial No. 221,139
In Great Britain April 20, 1950
9 Claims. (Cl. 61—76)



1. In a pile driving hammer of the type operated by a gaseous pressure fluid supplied from an external source, the combination of a piston and piston rod stationary in relation to the object to be struck, a cylinder that reciprocates longitudinally with respect to the piston and piston rod to form the ram that strikes the blows, a rotary automatic pressure fluid control valve housed in the piston, a spindle projecting from the valve into a longitudinal slot formed in the circumferential wall of the cylinder, a lever carried by the spindle, and means mounted on the cylinder for actuating the lever as the cylinder reciprocates.

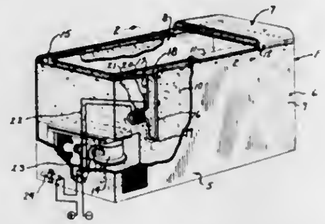
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2,647,374
**ANTISWEAT ANTIFROST ATTACHMENT**
Charles Ward Stoner, Milwaukee, Wis.
Application March 25, 1952, Serial No. 278,332
6 Claims. (Cl. 62—2)

1. In a refrigerating cabinet having an opening and a door for closing said opening, means



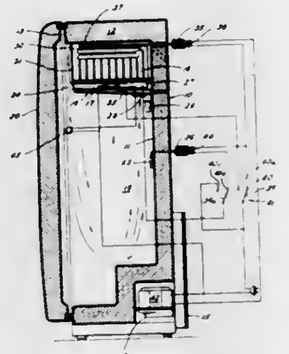
for heating the wall of the cabinet around the opening in close proximity to the door for raising the temperature of the cabinet around the door above the dew point of the air surrounding the cabinet including a closed loop of tubing having



a liquid therein, said closed loop including a depending U-shaped static trap defining spaced stretches, a laterally extending loop formed in one of the stretches and means for heating the laterally extending loop.

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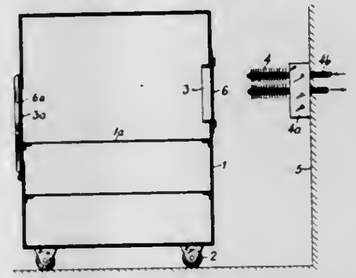
2,647,375
**TWO-TEMPERATURE REFRIGERATOR WITH AUTOMATIC DEFROSTING**
Elmer W. Zearfoss, Jr., Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application May 13, 1950, Serial No. 161,806
12 Claims. (Cl. 62—6)



9. In a refrigerator including evaporator means normally maintained at sub-freezing temperatures and upon which frost collects, partition means disposed in adjacency to said evaporator means, means for removing the frost from said evaporator means, comprising: air heating means; and air propelling means automatically operable in response to energization of said heating means and cooperable with said partition means to produce a relatively low velocity circulatory flow of air from the space between said evaporator means and said partition means, through the space adjacent the opposite side of said partition means, said air, as it passes through the second mentioned space, being restricted to a region in close adjacency to said partition means by virtue of its low velocity and the stratification of air resulting from the thermal gradient existing from said partition downwardly.

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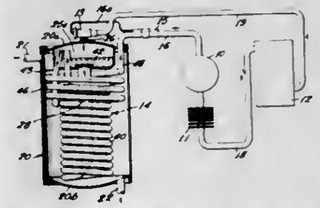
2,647,376
**REFRIGERATOR WITH DEFROSTING ARRANGEMENT**
Filip Reinhold Carlsson, Eskilstuna, Sweden
Application February 11, 1952, Serial No. 271,053
In Sweden March 2, 1951
1 Claim. (Cl. 62—117.2)



The combination of a refrigerator box and a cooling element adapted to be removably positioned therein, said cooling element being fixedly mounted on a wall or the like, roller means supporting the box to permit the displacement of the box from a cooling position, in which the cooling element is positioned within the box, to a defrosting position, in which the cooling element is positioned outside the box, said box having an opening for the cooling element, and a lid for closing said opening when the box is displaced away from the cooling element, said opening and said cooling element having cooperating surfaces adapted to close said opening when the cooling element is positioned within said box.

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2,647,377
**APPARATUS FOR PROVIDING GRAVITY FLOW IN FLOODED COIL REFRIGERATION SYSTEMS**
William G. Cartter and Joseph Richard Ewell, Monrovia, Calif., assignors to Day & Night Manufacturing Company, Monrovia, Calif., a corporation of California
Application January 24, 1949, Serial No. 72,372
8 Claims. (Cl. 62—126)

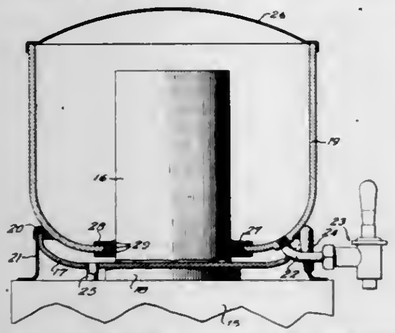


1. A refrigeration expansion coil unit having an inlet in communication with an expansion valve and an outlet in communication with a compressor, said unit having a cooling coil and a superheat coil and a header comprising a liquid refrigerant receiver adapted to receive liquid refrigerant from said expansion valve, said cooling coil having a relatively straight section depending from the lower portion of said header and in communication with a helical-wound upwardly progressing coil, which said helical coil terminates inside said header at a point above liquid refrigerant contained therein, insulating means adapted to prevent boiling of refrigerant in said straight section, said means comprising a sleeve of greater diameter defining an annular chamber between said straight section and said sleeve,

means in the lowermost portion of said straight section defining a communication for liquid refrigerant from said section into said annular chamber and means defining a communication between said annular chamber and said header adjacent the bottom of said header, whereby liquid refrigerant passes from said straight section into said annular chamber and is caused to boil by the absorption of heat from a medium surrounding said sleeve and to carry said heat upwardly by convection currents into said header, said cooling coil having a discharge in said header above the level of liquid refrigerant contained therein, said superheat coil having an inlet in said header above the level of said liquid refrigerant, a relatively straight section connecting said inlet with the lowermost portion of said superheat coil, said superheat coil being helical-wound and upwardly progressing and having a discharge in communication with the discharge of said expansion refrigeration unit.

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**2,647,378**
**SEAL FOR BEVERAGE COOLERS**
**Lloyd E. Rabjohn, Glendale, Calif.**
**Application January 15, 1951, Serial No. 206,011**
**5 Claims. (Cl. 62—142)**



1. In an apparatus for cooling and dispensing beverages: a base; means for cooling the beverage comprising an elongated heat-exchanger projecting upward from said base; a removable bowl-like receptacle surrounding said heat-exchanger so that there is a continuous space therebetween for the beverage, said receptacle having an opening through its bottom somewhat larger than the heat-exchanger so that the receptacle can be removed for cleaning by lifting it from the rest of the apparatus and subsequently replaced by lowering it around the heat-exchanger; means projecting from said base for supporting the receptacle and limiting the lowering of the receptacle around the heat-exchanger; a member of elastic material attached to the receptacle and sealing the space between the heat-exchanger and the edge of said opening when the receptacle is in its supported position, said member having a sliding fit with the heat-exchanger; and means for preventing removal of said sealing member from the receptacle until the receptacle, together with the member, is out of engagement with the heat-exchanger.

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**2,647,379**
**PIERCING EARRING**
**Louis Ferro, Providence, R. I.**
**Application May 12, 1949, Serial No. 92,776**
**1 Claim. (Cl. 63—12)**

A piercing earring comprising a piece of flat stock bent into the form of a substantially closed body of geometric shape, having an ear lobe receiving slot at the upper end thereof, having a lug projecting radially upwardly from an end thereof, having an ear wire tip receiving hole therein and means for pivotally mounting an upwardly looped ear wire on the opposite end thereof, comprising a slit extending inwardly a distance from the end thereof and a pivot hole spaced inwardly a short distance therefrom, providing an ear wire pivot bar portion between



said slit and hole and an ear lobe piercing wire comprising an upwardly extending loop having a lower pivot end projecting downwardly through said slit to be guided in its pivotal movement by the walls of said slit, and a tip extending underneath said bar, upwardly through said pivot hole and downwardly over said pivot bar, substantially looping said pivot bar, and a latching end projecting outwardly from the opposite lower end of said ear wire loop adapted to be inserted through said hole in said lug.

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**2,647,380**
**FLEXIBLE SHAFT**
**Henry Troeger, Ramsey, and Bernard W. Goldberg, Passaic, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
**Application June 24, 1949, Serial No. 101,228**
**2 Claims. (Cl. 64—13)**

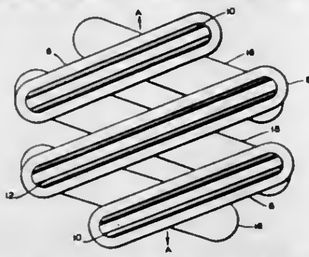


1. A flexible coupling for the transmission of torque comprising a driving member having a substantially annular flange, a plurality of annular U-shaped discs serially connected at their outer edge, means connecting the outer disc at its outer edge to said annular flange, a driven member having a substantially annular flange, means connecting the inner disc at its outer edge to said second annular flange, means including a knuckle joint supporting said driven member with said driving member, said knuckle joint having one portion secured to said driving member and another portion secured to said driven member, and means for adjusting said knuckle joint to balance said driven member in respect to the axis of rotation of said driving member, said means comprising an eccentric portion of said knuckle joint extending through and cooperating with an eccentric bushing in said driving member and rotative relative thereto.

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**2,647,381**
**ADJUSTABLE PLATE STAND**
**Robert Lamounette, New York, N. Y.**
**Application March 10, 1949, Serial No. 80,639**
**3 Claims. (Cl. 65—61)**

3. In a variable area table stand adapted to support hot platters of various dimensions, the combination comprising, a plurality of flat upper arms, an equal number of flat lower arms, a plurality of studs pivotally attaching said upper and lower arms along the longitudinal centerlines of the arms, spacer means about each stud separating said upper and lower arms so as

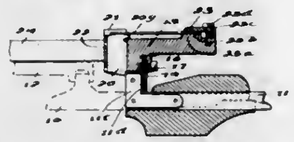


to permit free pivotal movement about said studs, a heat resistant cushioning strip on each of said upper arms, and a resilient insert on said studs providing a footing for said stand.

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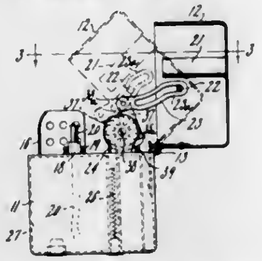
**2,647,382**
**KNITTING MACHINE SINKER CONTROLLING MEANS**
**Kenneth Howle, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a corporation of Pennsylvania**
**Application October 21, 1948, Serial No. 55,700**
**29 Claims. (Cl. 66—110)**



1. In a knitting machine, a sinker head, a set of sinkers movable to and fro in said head, a catch-bar for retracting said sinkers, and a verge-plate for limiting the forward motion of said sinkers, said verge plate being carried by the underside of said catch bar and projecting downwardly therefrom and constituting the sinker-retracting element of said catch bar.

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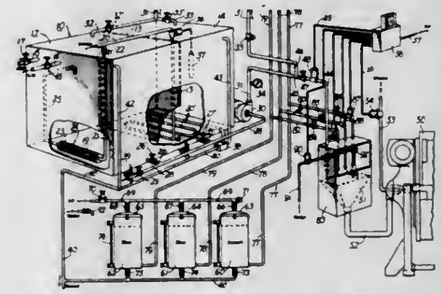
**2,647,383**
**PYROPHORIC LIGHTER FOR HANDICAPPED PERSONS**
**Irving Florman, New York, N. Y.**
**Application January 29, 1953, Serial No. 333,996**
**5 Claims. (Cl. 67—7.1)**



5. A manually operated pyrophoric pocket lighter, preferably for use by handicapped persons; comprising a base housing, a hollow top cover therefor and hingedly connected to said base housing, a support fixed on said housing, a flint wheel rotatably mounted on said support, a pawl element on said support and operatively connectable with said flint wheel and positioned adjacent the latter for rotation therewith, lever means having one end pivotally and eccentrically connected to said pawl element and provided with a slotted portion, a pivot pin on said cover engaging said slotted portion, said pivot pin being first movable along said slotted portion of said lever means to provide a lost motion between said cover and said pawl element and upon manually exerting further pressure on said cover for moving same away from said base housing, said pawl element rotates said flint wheel while said pivot pin is engaged in said slotted portion of said lever means thereby enabling increased rotation of the flint wheel for sparking purposes, and stop means for limiting the movement of said cover away from said base housing.

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**2,647,384**
**DISTRIBUTION OF SUPPLIES TO LAUNDRY WASHERS**
**Arnold Erlanger, Elizabeth, N. J., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware**
**Application March 7, 1950, Serial No. 148,139**
**5 Claims. (Cl. 68—17)**



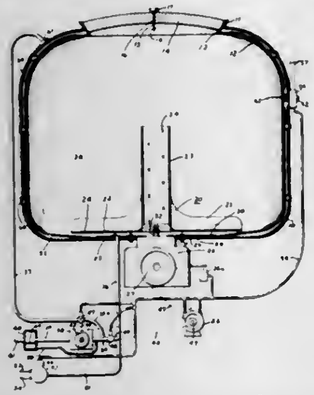
1. In a supplies system for laundry washing machines, in combination, a plurality of washers each having a control unit, a supply tank to contain washing solution, the quantity of said solution being sufficient for the complete operation for a day or other desired period of any one or more of said washers, a supply receptacle for each washer adapted to receive successively from said tanks separate charges of the various solutions sufficient for a single run of said washer, means connecting said supply tank to said receptacles, means to inject the contents of said receptacle into said washers, and means associated individually with each of said connecting means and with the related injecting means and cooperatively associated with the related control unit to effect delivery successively and selectively to said receptacle and washer a charge of said supply.

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**2,647,385**
**DOMESTIC APPLIANCE**
**Robert R. Candor, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application January 30, 1948, Serial No. 5,320**
**5 Claims. (Cl. 68—21)**

5. In a washing machine, a substantially solid tub having an opening for introduction of articles to be washed, a flexible sheeting bag in said tub having an opening adjacent said first named opening, cover means for said openings, an agita-

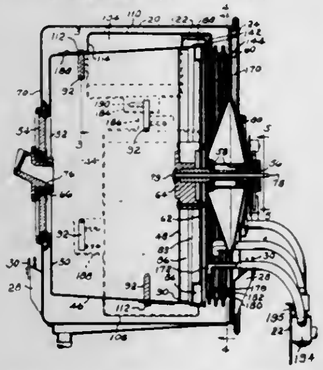
tor in said bag, a vacuum pump, connections from said pump to the space between said tub and bag and to the space within said bag and from a source of water supply to the space within said bag, valves in said connections selectively to apply a vacuum from said pump to either of said spaces,



means selectively to reduce the vacuum in the other said spaces while a vacuum from said pump is applied to either of said spaces, a motor drivingly connected to said vacuum pump and agitator, and a timer controlling the operation of said motor and valves.

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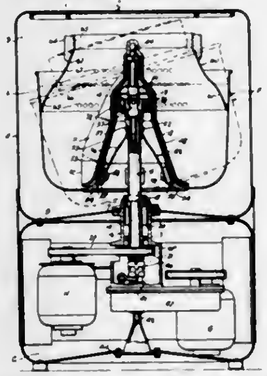
**2,647,386**
**WASHING MACHINE**
**Francis P. Kelper, Cazenovia, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware**
**Application April 3, 1948, Serial No. 18,790**
**9 Claims. (Cl. 68—23)**



1. In a washing machine, a washing and extracting drum mounted for rotation and having an imperforate outer wall, means for accelerating said drum to an extracting speed, a plurality of radially inwardly open pockets uniformly arranged around and beyond the periphery of said drum, means for centrifugally delivering balancing fluid to one or more of said pockets, comprising radially inwardly open channel annuli, one for each of said pockets and including a fluid connection between each channel and a corresponding pocket, non-rotating means for delivering fluid under pressure selectively into one or more of said annuli, means sensitive to rotational unbalance of said drum and the angular position of the mass creating unbalance for controlling said delivering means, and selecting the annulus or annuli for receiving balancing fluid to compensate for rotational unbalance, and shaft-driven speed-responsive means for rendering said sensitive means inoperative at all rotational speeds below that necessary to cause flow of said fluid under centrifugal force from said annuli to said pockets.

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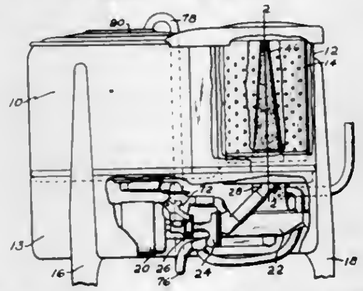
**2,647,387**
**CLOTHES-WASHING MACHINE**
**Arthur D. Lund, Minneapolis, Minn., assignor to Solar Corporation, Milwaukee, Wis., a corporation of Delaware**
**Original application May 26, 1947, Serial No. 750,584. Divided and this application February 21, 1951, Serial No. 212,161**
**11 Claims. (Cl. 68—23)**



2. In a clothes washing machine of the character described, a rotary receptacle for the clothes and cleansing liquid and an agitating means for washing the clothes, an upright supporting and driving assembly for the receptacle and agitating means and having separate flexible joints about which the receptacle and agitating means are tiltable in radial, upright planes, means for rotating the receptacle and means for operating the agitating means, and a balancing mass on the receptacle.

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**2,647,388**
**WASHING MACHINE**
**Charles C. Scheele, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware**
**Application March 20, 1948, Serial No. 16,081**
**1 Claim. (Cl. 68—26)**

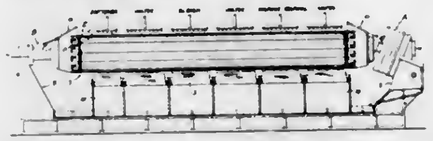


In a washing machine, a wash tub, a centrifugal extractor tub, said tub having a centrifugal extractor basket and axial spray rinsing device rotatably mounted therein, a drain pump having a connection from each of said tubs connected to its inlet, a valve in the connection from said laundry tub, a connection having a valve from said pump having means for delivering the outflow of said pump to the wash tub or a sink drain, a conduit adapted to be connected to a source of rinse water under pressure, and a branch connection leading from said last-named connection between the pump and valve, a three-way valve having two inlet ports connected to said branch connection and said rinse water supply conduit, and an outlet port connected to said axial spray rinsing device.



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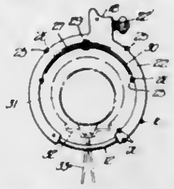
**2,647,389**
**YARN ADVANCING REEL HAVING LIQUID APPLYING AND LIQUID STRIPPING MEANS**
**William H. Furness, Haddonfield, N. J., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware**
**Application February 6, 1948, Serial No. 6,694**
**6 Claims. (Cl. 68—208)**



1. The combination with a device comprising at least one rotor for advancing yarn and the like through a path comprising a plurality of laterally spaced convolutions, means for rotating the rotor, means for applying liquid to the convolutions in a treatment zone of the path, means below the rotor for collecting the liquid, and stripper means below the rotor and between the convolutions and the collecting means, said stripper means comprising a generally vertically disposed plate having an upper edge extending generally parallel to the axis of the rotor and closely adjacent to but out of contact with the turns of the yarn upon the rotor, whereby liquid gathering at the bottom of the convolutions is stripped therefrom and discharged into the collecting means.

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**2,647,390**
**BICYCLE LOCK**
**Ernest Paulson, Chicago, Ill.**
**Application March 28, 1950, Serial No. 152,431**
**3 Claims. (Cl. 70—227)**



2. A bicycle lock comprising an open faced arcuate casing having its ends in a spaced relation, an arcuate bolt within said casing, means for normally maintaining said bolt in a retracted position, means for shifting said bolt out of said casing for bridging the ends of said casing, a cover plate rigidly affixed to said casing for covering the open face of the latter, and a bicycle mud guard engaging plate integrally formed with and extending at right angle from said cover plate, said mud guard engaging plate being provided with a slot for receiving therethrough a fastener for engaging the mud guard with said mud guard engaging plate.

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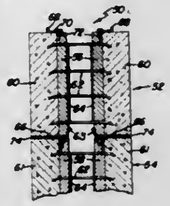
**2,647,391**
**ROTARY CYLINDER LOCK**
**Edmond Uher, Paris, France**
**Application June 15, 1948, Serial No. 33,202**
**In France January 12, 1948**
**5 Claims. (Cl. 70—364)**



1. In a key-operated rotary cylinder lock, a fixed outer portion having wall means defining a cylindrical opening, said wall means being formed with a longitudinal recess, a rotary cylindrical member received in said cylindrical opening, said rotary cylindrical member having an internal cavity with at least one opening communicating radially with the wall means of said outer portion, a cage assembly received in the cavity of said rotary cylindrical member, said cage assembly comprising a plurality of intermediate guide members spaced apart along the axis of the cage assembly and anchoring means for holding said intermediate guide members in fixed spaced-apart relationship to afford a rigid cage assembly, tumbler members received between spaced-apart intermediate guide members and movable radially with respect to the axis of the rotary cylindrical member to pass through the opening in the rotary cylindrical member to enter releasably the recess in the wall means of said fixed outer portion, whereby said fixed spacing of the intermediate guide members affords clearance for free radial movement of said tumblers and whereby lateral forces on said intermediate guide members along the axis of the cylindrical member are carried by said cage assembly independently of said tumbler members, and means for securing said cage assembly to said cylindrical portion to rotate therewith, whereby insertion of a key in the lock releases the tumblers from the recess to free the cylindrical member and cage assembly for rotary movement within the fixed outer portion.

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**2,647,392**
**BUILDING BLOCK WITH SPACED WALLS**
**Howe E. Wilson, Washington, Ind.**
**Application March 15, 1950, Serial No. 149,707**
**4 Claims. (Cl. 72—44)**

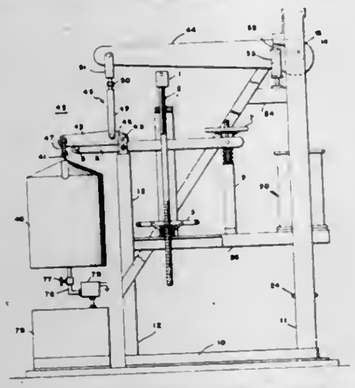


3. A building block comprising a pair of spaced parallel walls having opposed inner flat faces, a plurality of vertical ribs resting against the inner face of each wall, the ribs on one wall being arranged in pairs with the ribs on the other wall, each of said ribs having a plurality of vertically spaced horizontal apertures therein, a plurality

of rods extending through the apertures of pairs of ribs and having downwardly curved ends embedded in the walls, and a pair of vertical rods joining the rods between each pair of ribs and engaging the opposing faces of each pair of ribs.

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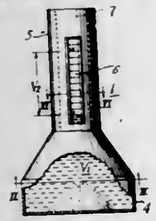
2,647,393
**RELAXATION TEST APPARATUS**
**William C. Stewart, Severna Park, Md.**
**Application March 30, 1949, Serial No. 84,442**
**3 Claims. (Cl. 73—15.6)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In relaxation test apparatus for a test specimen of material, couplers for attachment to displaced points on said specimen, an anchor attachment for one of said couplers, a stress mechanism securable to the other of said couplers for applying stress to said specimen during a test period, control means for reducing the amount of said applied stress on elongation of said specimen due to said stress, and furnace means for maintaining the specimen at a selected elevated temperature during said test period, said stress mechanism including a receptacle adapted to receive a liquid to form a load, and said control means including an electromagnetically operated valve in the outlet pipe of said receptacle adapted to release liquid from said receptacle on elongation of said test specimen due to said load.

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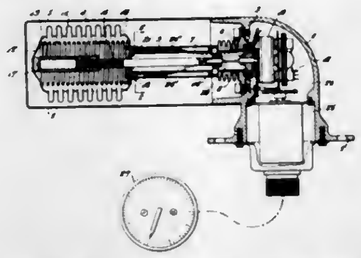
2,647,394
**METHOD OF DETERMINING THE SPECIFIC GRAVITY AND WATER CONTENT OF CONCRETE AGGREGATES**
**Louis H. Schaeperklaus, Cheviot, Ohio**
**Application February 4, 1950, Serial No. 142,386**
**3 Claims. (Cl. 73—32)**



1. A method of determining the specific gravity of comminuted aggregate that consists in (1) weighing a container having therein a quantity of water of weight $W_1$, (2) adding to said water, comminuted aggregate in amount to displace a unit volume of water, said unit volume being equal to $K_1(1 \cdot 10^n)$ where $K_1$ is a constant and $n$ is a whole number, weighing the container, water and aggregate which displaced said volume of water, whereby the specific gravity may be determined by subtracting the second step (2) from the first step (1) and dividing the difference by the weight of the volume $V_2$ of water.

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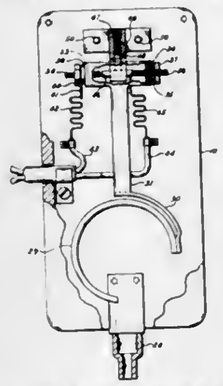
2,647,395
**DENSITY MEASURING DEVICE**
**Stanley James Smith and Theodore Weber, Jr., New York, N. Y.**
**Application March 9, 1951, Serial No. 214,716**
**5 Claims. (Cl. 73—33)**



3. Apparatus for indicating the density of a liquid, comprising a sealed, variable-volume buoyancy chamber, means for yieldably mounting said chamber immersed in the liquid, means for varying the volume of the chamber, and means controlled by the rise and fall of said chamber for actuating said first mentioned means to maintain the "density" of said chamber substantially equal to that of the liquid, and an indicator controlled by said last named means for indicating the density of the liquid.

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2,647,396
**PNEUMATIC GAUGING DEVICE**
**Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio**
**Application September 27, 1947, Serial No. 776,512**
**10 Claims. (Cl. 73—37.5)**



1. Gauging apparatus for checking the difference in a dimension of a workpiece at different locations on the workpiece as the workpiece is moved to present such different locations to a gauging zone, comprising a work head having an annular portion for movably receiving the workpiece to be gauged in concentric relation and having a work controlled gauging device arranged for cooperative association with the surface of the work for checking at least one transverse dimension of a workpiece, a movable member having an operative connection to said gauging device and controlled by said gauging device in accordance with the dimension checked, an electric circuit including a circuit controlling element carried in the path of movement of and engageable by said movable member, indicating means in said circuit controlled by said controlling element, and a shifting means on said movable member engageable with said element for automatically shifting said controlling element in accordance with the limit of position attained by said movable member as the workpiece is moved to present its different locations to be gauged to the gauging zone, so that a repeat movement of the workpiece controls said indicating means when the difference in the dimension gauged exceeds a predetermined amount.



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2,647,397
**METHOD OF FORMING AND TESTING SPECIMENS OF MOLDING MATERIAL**
**Harry W. Dietert, Detroit, Mich., assignor to Harry W. Dietert Company, Detroit, Mich., a corporation of Michigan**
**Application August 13, 1951, Serial No. 241,526**
**6 Claims. (Cl. 73—38)**



1. A method of forming and testing specimens of compacted materials comprising measuring a volume of loose material which is in excess of that required to form in all variations thereof a compacted body of predetermined diameter which is of at least a predetermined minimum length, compacting said material in a mold of the said diameter, and testing the compacted specimen while a portion of the length thereof is retained within said mold and another portion of the length projects beyond the mold.

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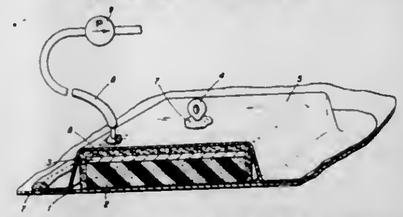
2,647,398
**BALANCE TESTING DEVICE**
**Andrew Marvel, Caldwell, N. J.**
**Application April 2, 1952, Serial No. 280,068**
**10 Claims. (Cl. 73—66)**



1. A static balance testing device for rotary bodies, including a shaft presenting an axial bore opening through one end thereof, mounting means on the exterior of said shaft for the body to be balanced, a solid relatively inflexible spindle member received in said bore and anchored at its inner ends to said shaft, said spindle having a diameter somewhat less than the diameter of said bore and projecting out of said bore beyond said shaft, suspension means engaged with the outer end of said spindle, and a reduced diameter necked portion on said spindle allowing a relative tilting motion between said shaft and said spindle in response to a condition of unbalance in the supported body.

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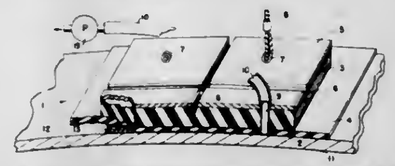
2,647,399
**TEST PAD**
**Robert W. Newbill, Jr., San Fernando, Calif., assignor to North American Aviation, Inc.**
**Application November 22, 1949, Serial No. 128,854**
**4 Claims. (Cl. 73—88)**



1. Means for applying a tension static test load normal to an aircraft panel structure comprising a metal plate, a sponge rubber pad attached to said plate and adapted to fit intimately against said panel, a thin flexible suction sheet member larger than said metal plate adapted to be sealingly attached to said panel around said plate and pad and equipped with a suction connector for attachment to a source of vacuum, means attached to said plate and sealed through said sheet for applying a tension load to said pad, a resilient sheet of material separating said metal plate and said flexible sheet material and means for evacuating the space under said suction sheet through said suction connector whereby a tension force applied to said tension loading means is transmitted to said panel structure.

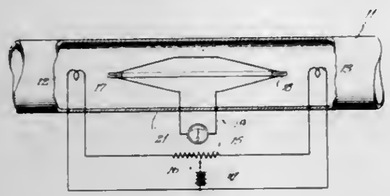
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2,647,400
**LOAD APPLICATION UNIT**
**James W. Gaines, Los Angeles, Calif., assignor to North American Aviation, Inc.**
**Application October 15, 1951, Serial No. 251,405**
**12 Claims. (Cl. 73—88)**



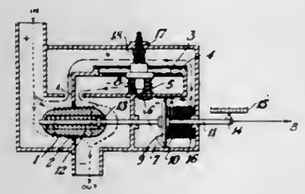
1. A load application unit comprising a sheet of flexible material, one side of which is adapted to engage a test specimen and assume the contour thereof; a pad of flexible material attached to the opposite side of said sheet; a plurality of laterally spaced reinforcing members secured to said pad remote from said sheet, each of said reinforcing members being provided with means adapted to engage load producing means; and means for exhausting the air from beneath said sheet thereby securing said unit to said specimen.

2,647,401
**THERMAL FLOWMETER**
Claude M. Hathaway, Littleton, Colo.
Application April 11, 1950, Serial No. 155,199
1 Claim. (Cl. 73—204)



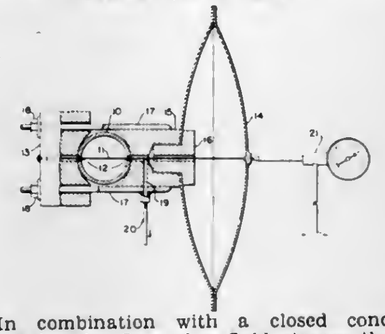
A flow meter for relatively small quantities of fluid comprising a conduit, a pair of electrical heating elements for supplying heat at two spaced points along and in the vicinity of the axis of said conduit, a pair of thermocouples arranged symmetrically between and with respect to the said heating elements, and being spaced along the axis of said conduit, a circuit for said thermocouples and including indicating means for producing an indication of the rate of flow of said fluid.

2,647,402
**FLOW METERING MECHANISM**
Harold William Ibbott, Watford, England, assignor to Negretti & Zambra Limited, London, England, a company of Great Britain
Application May 5, 1947, Serial No. 746,004
In Great Britain May 16, 1946
9 Claims. (Cl. 73—210)



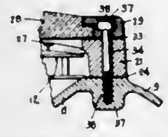
1. A flow meter comprising in combination a casing having an inlet and an outlet, a partition member formed with an orifice between said inlet and outlet, a tapered plug movable in said orifice to vary the effective area thereof, a cylinder, a piston connected to said plug and movable in said cylinder to actuate said plug, said piston being adapted to provide a fluid passage from one side thereof to the other, means providing a fluid passage connecting the space on one side of said piston to the inflow side of said orifice, means providing a fluid passage connecting the space on the other side of said piston to the outflow side of said orifice, a valve serving to control the flow of fluid through said latter passage, a pressure responsive device subjected to the differential fluid pressure across said orifice and coupled to said valve for adjusting said valve in response to a change in the said differential pressure, whereby the differential pressure on said piston which opposes the differential pressure on the plug is varied so that the plug is moved in the sense of restoring the differential pressure across the orifice to its original value, and means for measuring movements of the plug.

2,647,403
**FLOW MEASURING APPARATUS**
Ellsworth Richard Fenske, Lyons, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 29, 1950, Serial No. 164,963
2 Claims. (Cl. 73—228)



1. In combination with a closed conduit adapted for the flow of a fluid stream therethrough, a flow measuring device comprising a supporting plug on one side and extending exteriorly of the conduit, said plug having a longitudinal passageway therethrough, wire holding means attached to the opposite side of said conduit, a hollow deflectable cell having one wall thereof connected to said plug externally of the conduit, a wire secured to said holding means and to the central portion and on the inner side of the other wall of said cell and extending diametrically across the conduit and through said passageway into the hollow cell, and extensometer means connected with said other wall of said cell for measuring deflection of the cell and said wire.

2,647,404
**METER TOP AND INDEX BOX**
Fairchild Whitworth, Fairfield, Conn., assignor to Sprague Meter Company, Bridgeport, Conn., a corporation of Connecticut
Application October 19, 1949, Serial No. 122,268
5 Claims. (Cl. 73—273)

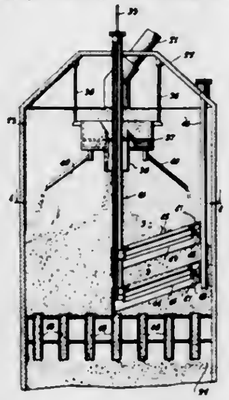


1. A top for a meter box comprising a body portion having an integral enclosing wall and having a register-supporting surface on said wall, a register cover including separate superimposed rings mounted on said wall around said surface and forming the sides of said cover, a transparent cover clamped between said rings, and fastening members extending through said rings and into said body portion to secure said rings together and to said body portion in leak-tight engagement.

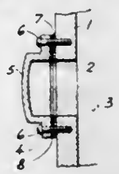
2,647,405
**CATALYST LEVEL INDICATOR**
Eric V. Bergstrom, Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application December 9, 1949, Serial No. 132,068
7 Claims. (Cl. 73—296)

7. Apparatus for measuring the height of a column of particle-form material in an enclosed vessel comprising a weighing rod extending downwardly into said vessel, a receptacle at least partially suspended from said weighing rod, said receptacle extending through a vertical portion of said vessel and occupying only a small portion of its cross section, said receptacle being open upwardly at a plurality of levels for receipt of solid flow from within said vessel and having an opening in its bottom for discharge of solids, a shield member arranged loosely around said receptacle and adapted to shield it from solid flow except for the locations of solid entry to and discharge from said receptacle, and a weight measuring device supporting said weighing rod.





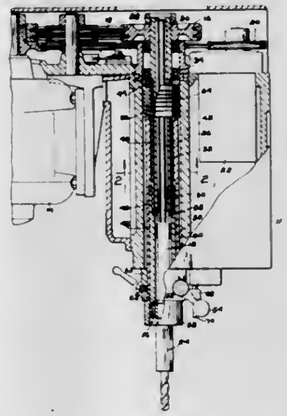
2,647,406
**LIQUID LEVEL GAUGE**
Imanuel Sorensen, Copenhagen, Denmark
Application June 20, 1950, Serial No. 169,097
In Denmark June 27, 1949
2 Claims. (Cl. 73—334)



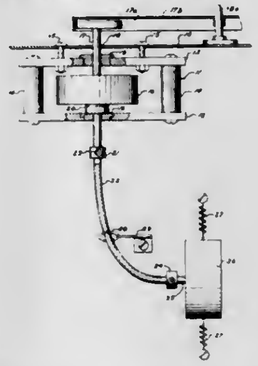
1. Liquid-level gauge for liquid-tight securing to the wall of a liquid containing receptacle as a closure member for at least one aperture in said wall, said gauge being moulded in one piece of a transparent material, having a hollow portion protruding in front of the wall of the receptacle, and having a packing flange extending along said wall from the outer circumference of the protruding portion, said flange on the surface facing the wall being covered with a layer of a substance selected from the group consisting of light-reflecting and phosphorescent materials.

2,647,407
**MACHINE TOOL SPINDLE CONSTRUCTION**
Eric J. Hirvonen, Shrewsbury, Mass., assignor to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts
Application October 7, 1950, Serial No. 189,002
8 Claims. (Cl. 74—22)

1. Apparatus of the class described comprising a spindle, a rotary sleeve therefor, means fixing the spindle to the sleeve against relative rotation thereof but providing for relative axial movement of the spindle, means to reciprocate the spindle in the sleeve including a second sleeve, a piston thereon, and means forming a cylinder for the piston, the second sleeve being exterior the first sleeve and connected to the spindle at a point past an end of the first sleeve, means rotating the latter and therefore the spindle, means to axially adjust the spindle relative to the first and second sleeves, and means to prevent rotation of the adjustable means.



2,647,408
**RECORD TURNTABLE DRIVE ASSEMBLY**
Edward Macleod Manning, Toronto, Ontario, Canada, assignor to Manning Radio Limited, Toronto, Ontario, Canada
Application May 8, 1950, Serial No. 160,613
3 Claims. (Cl. 74—206)

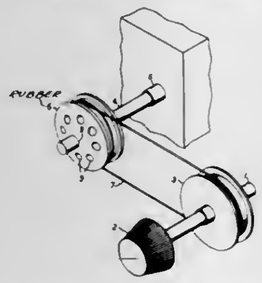


3. In combination, a record disc supporting turntable, a drive motor having a rotatable shaft, a flywheel supported in a position materially spaced from said motor, a flexible shaft operatively connecting said motor and said flywheel to cause the latter to be driven at the speed of rotation of said motor and greatly exceeding the desired speed of rotation of said turntable, a speed reduction device operatively extending between said flywheel and said turntable to cause the latter under influence of said flywheel to be driven at a regulated slower speed of rotation, and means for dampening vibrations in said flex-

ible shaft comprising a loop of material extending thereabout for limiting the amplitude of vibrations at a selected point thereon.

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2,647,409
**NONSLIP PULLEY DRIVE**
**Donald B. Keim, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York**
Application June 9, 1948, Serial No. 31,943
6 Claims. (Cl. 74—219)




5. An arrangement comprising a movable drive belt, a pulley formed throughout a substantial portion of its diameter of a resilient material and mounted for movement about an axis, the periphery of said pulley being resiliently deformable, said belt engaging the peripheral surface of said pulley in driving power transfer relationship, means for insuring driving power transfer between said belt and said resilient member comprising means for applying tension to said belt sufficient to distort said pulley along said portion of said diameter, said distortion providing a restoring force to maintain said belt under tension.

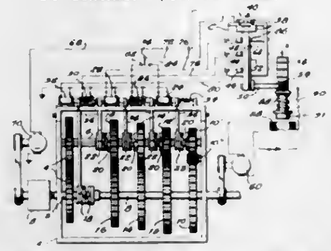
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2,647,410
**MAGNESIUM-ALLOY-BLOCK EDGE-ACTIVE DRIVING BELT**
**Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana**
Application July 3, 1950, Serial No. 171,783
3 Claims. (Cl. 74—236)



1. A belt comprising a body strand of material of high tensile strength but readily flexible both longitudinally and laterally, and a plurality of longitudinally-spaced, transversely-rigid stiffener blocks secured to said body, each of said blocks comprising a transverse beam integrally carrying members at its opposite ends formed to provide oppositely-facing surfaces allochirally angularly related to a plane perpendicular to said beam, one surface of said beam engaging the inner surface of said body, the opposite surface of said beam being provided with a central rib and two flanking ribs extending from one to the other of said members, a clamping plate engaging the outer surface of said body in registry with said beam, and means penetrating said body and engaging said beam and said plate to secure said beam and plate to said body.

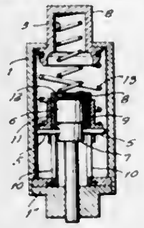
2,647,411
**ELECTRIC AUTOMATIC OPERATING APPARATUS FOR MECHANICAL SPEED CHANGING DEVICES, PARTICULARLY FOR MOTOR CARS**
**Aldo Filocamo, Milan, Italy**
Application May 15, 1951, Serial No. 226,466
In Italy November 9, 1950
12 Claims. (Cl. 74—365)



1. A change speed device, comprising, in combination, a change speed gear including a plurality of gears and a shaft carrying one wheel of each of said gears; a plurality of electromagnetic means actuating, respectively, said gears of said change speed gear; an electromagnet having an armature having a plurality of positions depending on the voltage energizing said electromagnet; a D. C. generator driven by said shaft of said change speed gear and having an output voltage depending on the speed of said shaft; means for feeding the output voltage of said D. C. generator to said electromagnet so as to energize the same by the output voltage of said D. C. generator; at least one movable contact controlled by said armature; and a plurality of stationary contacts connected, respectively, to said electromagnetic means actuating said gears of said change speed gear, said movable contact being arranged for cooperation with said stationary contacts so as to make contact with the same one at a time, whereby the output voltage of said D. C. generator and thus the position of said armature depend on the speed of said shaft, thereby actuating automatically said gears of said change speed gear according to the speed of said shaft.

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2,647,412
**DEVICE FOR ELASTICALLY TRANSFERRING FORCES**
**Jean Justin Warmoes, Montreal, Quebec, Canada, and Léon Auguste Adrien Joseph Closkin, Liege, Belgium**
Application April 24, 1952, Serial No. 284,101
In Belgium June 16, 1951
14 Claims. (Cl. 74—470)

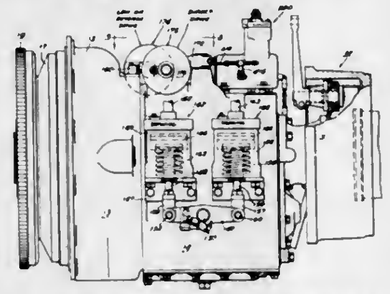


1. A device for transferring a force, comprising, in combination, a cylinder having a curved wall portion having a slot substantially parallel to the axis of said cylinder and extending over part of said curved wall portion; a piston movably arranged in said cylinder and defining with the same a chamber containing air; a member rigidly connected to said piston and engaging said slot; and resilient means transferring the force to said member so as to move the same and said piston rigidly connected thereto in a direction increasing the volume of said chamber so as to create a partial vacuum in the same having a retarding effect on the motion of said piston with respect to said cylinder, said slot connecting said chamber with the atmosphere when said piston has moved through a predetermined distance with respect to said cylinder so as to relieve the retarding effect on the motion of said piston and to continue the motion of said piston with a force larger than the force acting upon said piston during the retarding effect of said partial vacuum.



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2,647,413
**TRANSMISSION**
**Robert Lapsley, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
Application April 16, 1948, Serial No. 21,456
28 Claims. (Cl. 74—472)

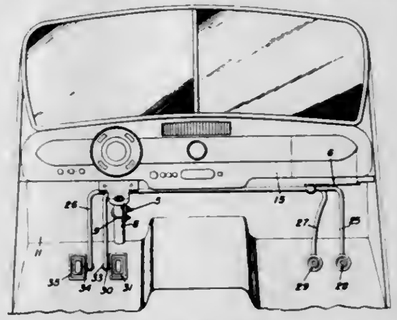


1. In a transmission having a drive shaft and a driven shaft, a drive gear for said drive shaft, a driven gear rotatably mounted on said driven shaft, a first clutch means operable in one clutching position to clutch said driven shaft to said drive shaft and in a second clutching position to clutch said driven gear to said driven shaft, first gear means between said drive and driven gears, second clutch means for said first gear means for clutching the latter in driving relation between said drive and driven gears, reverse gear means between said first gear means and said driven gear, and third clutch means for said reverse gear means for clutching the latter in driving relation between said first gear means and said driven gear, whereby when said third clutch means is engaged with said first clutch means in its said second clutching position, and said second clutch means disengaged, reverse drive is effected between said drive and driven shafts.

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2,647,414
**DUAL CONTROL ATTACHMENT FOR AUTOMOBILES**
**James E. Nafe, Sr., Charleston, W. Va., and Claire C. Christy, Pine Hill, N. J.; said Christy assignor to said Nafe**
Application June 20, 1950, Serial No. 169,092
1 Claim. (Cl. 74—479)

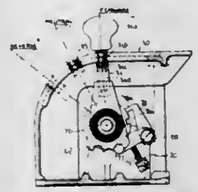
In combination, an automobile foot pedal, a rod, means pivotally mounting said rod in the automobile in transverse relation to said foot pedal, an auxiliary foot pedal rigidly connected with one end of the rod to pivot said rod upon depression of the pedal, a side bracket on said first named pedal, an arm on the other end of said rod swingable forwardly upon pivoting of said rod in sliding engagement with said bracket,



whereby depression of said auxiliary foot pedal will depress said first named pedal, said bracket lying forwardly of the arm to permit movement of the pedal away from said arm upon direct foot depression of said first named pedal.

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2,647,415
**VEHICLE TRAVEL CONTROL MEANS**
**Walter B. Dean, Paris, France, and David L. Buchanan, Whitemarsh, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania**
Application April 5, 1950, Serial No. 154,154
10 Claims. (Cl. 74—645)

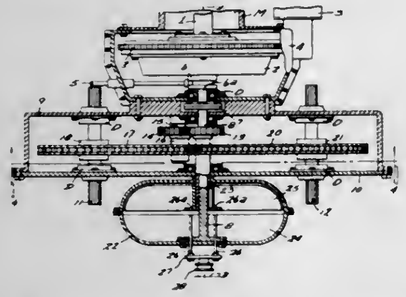


1. Control means for an engine driven torque converter installation having a main or reversing clutch mechanism to the final drive shaft and a lock-up clutch mechanism for the torque converter, comprising in combination, a first control element which actuates means which condition the reversing clutch mechanism for forward or reverse drive or neutral but without causing clutching in of the mechanism for driving, a second control element which regulates the power and speed of the engine, said second control element having movement from a lower end or zero, off, or idling position to higher positions at which clutching and higher speeds are produced, means associated with and controlled by the second control element when moved out of idling position and at all times thereafter for completing the connection of the main clutch for driving in the direction selected by the first control element, means associated with and controlled by the second control element when moved above the main clutch engaging position for operating a device which conditions said lock-up clutch for direct drive engagement, said second control element thereafter at all times while moving above the main clutch engaging position maintaining said device in condition for causing the engagement of the lock-up clutch, means associated with and operated by said second control ele-

ment for causing an increase of power and speed of said engine when said second control element is moving upward above the lock-up position for the converter clutch, interlocking means between said first or reverse control element and said second or speed control element for preventing movement of the first control element out of forward or reverse position except when the second control element is in idling, off position, and for preventing movement of the second control element from the idling, off position except when the first control element is in forward or reverse position, and means for causing delayed action of said second control element when moving in either direction past the converter lock-up position.

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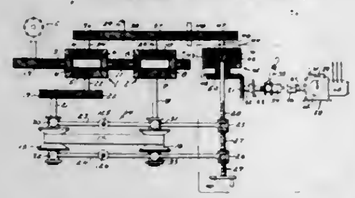
**2,647,416**
**FLEXIBLE DRIVE TRANSMISSION FOR MOTOR VEHICLES**
**Archibald P. Turner and Hamilton G. Blumberg, San Antonio, Tex.**
**Application May 10, 1948, Serial No. 26,134**
**1 Claim. (Cl. 74—664)**



In driving mechanism for an automotive vehicle having a motor shaft and two spaced power take-off shafts, flexible drive shafts connecting the output shafts to the wheels of the vehicle, the combination with the motor shaft of a counter shaft, a gear couple between the shafts, a tubular shaft concentric with the motor shaft and a sprocket chain drive between the tubular shaft and one take-off shaft, a sprocket chain drive between the countershaft and the other take-off shaft, and a flexible motive fluid drive at the rear end of the motor shaft for coupling the motor shaft and tubular shaft.

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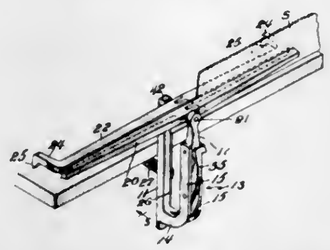
**2,647,417**
**DIFFERENTIAL GEARING POWER TRANSMISSION**
**Lev A. Trofimov, Willoughby, Ohio**
**Original application June 24, 1944, Serial No. 541,882. Divided and this application March 11, 1949, Serial No. 80,872**
**5 Claims. (Cl. 74—689)**



1. A power transmission comprising a power output element; a pair of differential gearings each gearing comprising three elements, namely, a rotatable spider element rotatably supporting a pinion, and two rotatable gears meshed with the pinion; an element of each gearing being arranged to be constantly driven by power; a second element of each gearing being connected to the output element; control means to control the speeds of the third elements to cause the second elements to apply torques to the output element and to balance and unbalance the torques, and to cause the output element to have zero speed when the said torques are balanced by balanced speeds of the third elements, and to rotate in forward or reverse direction when the said torques are correspondingly unbalanced by unbalanced speeds; said control means comprising variable diameter pulleys connected to rotate with the third elements respectively, and connected to each other by a belt, and means to increase the diameter of one pulley and decrease that of the other.

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**2,647,418**
**SAW CLAMP**
**Charles H. Gladu, Pawtucket, R. I.**
**Application January 16, 1951, Serial No. 206,154**
**3 Claims. (Cl. 76—78)**

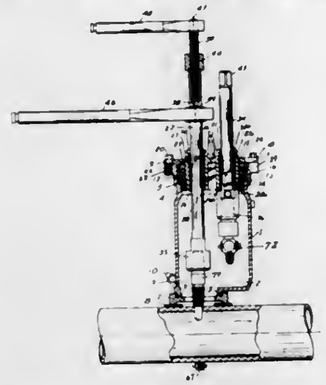


1. A saw clamp having a yoke providing spaced arms, a pair of jaws pivotally mounted at their mid portion on said yoke to extend between said arms and generally at right angles thereto, means for moving said arms toward and from each other, each of said jaws being made in two sections, one of said sections having a mortise in one end thereof and the other section a tenon receivable in said mortice for detachably securing the sections of a jaw to each other in end-to-end rigid relation.

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**2,647,419**
**MACHINE FOR DRILLING, TAPPING, AND INSERTING STOPS IN A PIPE**
**Nolan E. Dickason, Erie, Pa., assignor to Hays Manufacturing Company, Erie, Pa., a corporation of Pennsylvania**
**Application January 27, 1950, Serial No. 140,924**
**2 Claims. (Cl. 77—39)**

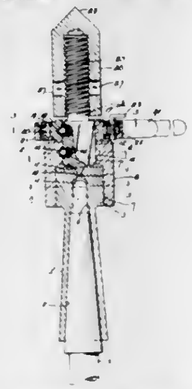
1. A machine for drilling an aperture in a vessel, tapping same, and threadably engaging a threaded member with the formed tapped aperture within a sealed body comprising a vertically extending, cylindrical body having axially spaced, annular, internal shoulders, means for sealingly engaging the lower end of said body with a vessel, an L-shaped ring seated on the upper of said shoulders, a rotatable head having an outwardly directed flange overlapping the lower portion of said L-shaped ring and having diametrically opposed apertures equi-distant from the center thereof, a ball thrust bearing assembly mounted on the outwardly directed flange on said rotatable head and in engagement with the inner side of said L-shaped ring, a cap flange on said body engageable with the upper side of said ball bearing assembly, shafts extending through said apertures in said head and sealingly engaged therewith, a hinged yoke on said body, a feed screw for alternately engaging the upper ends of said shafts to feed them longitudinally,



wrench engaging means on said shafts for rotating same, means on the lower ends of said shafts for attaching a tool and a threaded member respectively thereto, means for rotating said head and shafts under pressure whereby they may be aligned in the same position with respect to a point on said vessel, and a sealing ring mounted on the lower internal shoulder in said body.

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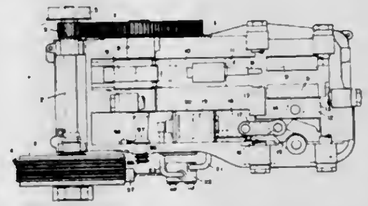
**2,647,420**
**RATCHET-TYPE DRILL**
**Jay W. Stallings, Harrisburg, N. C., assignor of four-fifths to Jay B. Linker, Milwaukee, Wis.**
**Application January 2, 1952, Serial No. 264,506**
**2 Claims. (Cl. 77—44)**



1. In a ratchet-type drill, a drive collar having a socket portion and an annular V-recess in spaced relation thereto, a drill chuck received in said socket, a drive screw received in said drive collar and formed with spaced sockets, a ratchet having an annular V-recessed, spring ball retainer assembly connecting the socket portions of said drive screw and the V-recesses of said drive collar and said ratchet, said drive screw having a center received in said drill chuck, and a feed nut carried by said drive screw.



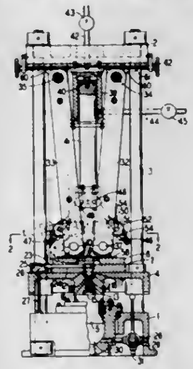
**2,647,421**
**UPSETTING FORGING MACHINE**
**William W. Criley, Shaker Heights, Ohio, assignor to The Ajax Manufacturing Company, Euclid, Ohio, a corporation of Ohio**
**Application November 8, 1947, Serial No. 784,785**
**3 Claims. (Cl. 78—17)**



1. In a forging machine having a grip slide, a header slide, and separate drive means for such two slides; the combination of means manually operable to initiate actuation of such drive means for such grip slide to advance the latter, control means automatically operated by said manually operated means to maintain the actuation of said drive means after said manually operable means returns to inoperative position and thereby to continue advance of such grip slide toward closed position, control means responsive to predetermined advance of such grip slide automatically operative to initiate actuation of such drive means for such header slide to advance the latter, thereby positively ensuring that the work will be firmly gripped prior to engagement by such header slide, control means automatically operative to continue advance and return of such header slide to fully retracted position, and control means responsive to predetermined retraction of such header slide automatically operative to actuate such drive means for such grip slide to retract the latter, thereby positively ensuring that the work will remain firmly gripped until disengaged by such header slide.

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**2,647,422**
**MACHINE FOR TAPERING SHEET METAL BLANKS**
**Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan**
**Application July 30, 1948, Serial No. 41,601**
**2 Claims. (Cl. 80—16)**

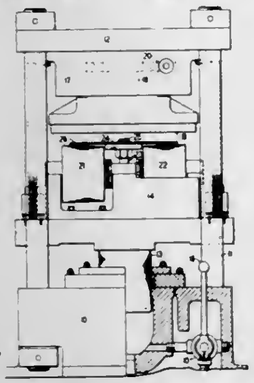


1. In a machine for tapering blanks of the type having a platen with a plane surface adapted to support a blank to be tapered, the combina-

tion of a stationary frame, an arm having a fixed pivotal connection at its upper end on said frame about an axis located above, and parallel to, the plane surface of said platen, the said axis being positioned above the platen and between the center and the periphery of said platen, a freely rotatable roller fixedly mounted upon the lower end of said arm about an axis parallel to the axis about which said arm pivots so that as the arm swings about said first mentioned axis said roller is caused to travel along an arcuate path concentric to said first mentioned axis and extending in a direction radially of said platen, the pivot for said arm being positioned above said platen so that a perpendicular line extended from the axis to the plane surface of said platen will join the platen at a position a substantial distance radially outwardly from the center of the platen whereby as the arm swings from the center of the platen outwardly toward the periphery thereof the roller at the lower end of said arm rolls and tapers the blank so that the blank decreases in thickness from the center toward the edge of the blank, and means for causing said roller to engage and roll a taper on the surface of a blank supported on said platen comprising power actuated toggle means positively connected to said arm for swinging said arm about its axis.

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**2,647,423**
**MACHINE FOR ROLLING TAPERED DISKS**
**Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan**
**Application August 7, 1946, Serial No. 688,878**
**9 Claims. (Cl. 80—16)**



1. A machine for rolling tapered disks comprising a disk-like platen mounted for rotation on an axis perpendicular to the plane of the platen, a plurality of rolls mounted for rotation on axes parallel to the plane of the platen, said rolls being disposed in spaced relation to the platen with their axes arranged in radially offset and circumferentially spaced relation to the axis of the platen, centering means positioned on, and movable along, the axis of said platen and for rotatably supporting a disk to be tapered upon an axis perpendicular to the plane of the platen in spaced relation to the platen and the rolls, means for moving the disk support axially of said platen, means for moving the rolls relatively toward the platen and maintaining the rolls in fixed spaced relation to the axis of the platen whereby to cause the platen to engage one face and the rolls to engage the opposite face of a disk positioned between the platen and the rolls, and means for imparting a rotary movement to the platen, the said rolls and platen being tapered relative to each other so that the distance between the said rolls and the said platen is greatest nearest the axis of said platen and decreases from said axis toward the circumferential edge of said platen corresponding to the taper desired in the disk to be rolled.

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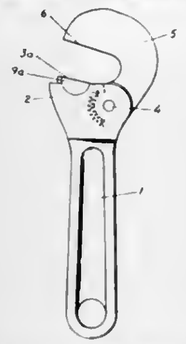
**2,647,424**
**HOLDER FOR CONNECTING DEVICES**
**Isidor S. Gordon, Springfield, Mass.**
**Application May 20, 1952, Serial No. 288,976**
**2 Claims. (Cl. 81—1)**



1. A holder for an elongated connector having a bore for wires and provided with an enlarged threaded end and a transverse binding screw intermediate opposite ends thereof comprising in combination, an elongated body formed from insulating material having a socket extending inwardly from an end thereof for the threaded end of a connector and a bore extending inwardly from said socket providing a shoulder for abutment by the threaded end of a connector, said socket and bore provided with axial grooves in a side thereof for slidably receiving the binding screw of a connector as it is inserted in said socket and bore, and said body provided with an opening extending transversely through a side thereof into said bore for exposing the binding screw of a connector in said socket and bore.

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**2,647,425**
**SELF-ADJUSTING WRENCH FOR NUTS AND LIKE POLYGONAL OBJECTS**
**Svend Olaf Mortensen, Copenhagen, Denmark, assignor to The Cromna Company, Copenhagen, Denmark, a firm**
**Application November 15, 1947, Serial No. 786,289**
**In Great Britain October 30, 1947**
**3 Claims. (Cl. 81—91)**



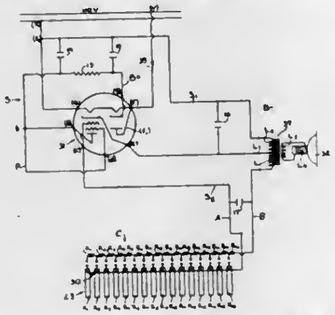
1. A wrench comprising a handle, a fixed jaw associated with said handle, a substantially hook-shaped jaw pivotally connected with said handle and having a substantially straight gripping face opposite said fixed jaw, said fixed jaw having therein an arcuate recess, and a substantially



semi-cylindrical jaw member having a substantially straight diametrical edge face and mounted for free arcuately sliding movement in said arcuate recess so as to be capable of adjusting itself with its straight edge face parallel to said gripping face of said pivotable jaw in all possible positions of the latter.

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**2,647,426**
**ELECTRICALLY OPERATED MUSICAL INSTRUMENT**
**William F. Battle and Michael A. Battle, Lisbon, Ohio**
**Application March 31, 1948, Serial No. 18,196**
**4 Claims. (Cl. 84—1.01)**



1. For use with a musical instrument having a sound producing speaker and a plurality of operable keys; an oscillator circuit comprising an electronic tube envelope having therein anode, cathode and grid elements, a transformer having a primary with an intermediate tap and a secondary for connection to said speaker, a filter element connected at one end directly to the anode, said cathode being connected to said tap, a condenser connecting one end of said primary to said grid, a second anode and a second cathode comprising a rectifier in said envelope, said cathodes having heaters connected in series and across a source of power, one terminal of said source of power being connected to said rectifier anode, the rectifier cathode being connected to the other end of said filtering element, the other terminal of said primary being connected to the other terminal of said source whereby to produce continuous oscillations above audible frequency, a resistor for each of said keys, means connecting said resistors in series, contact pairs allotted one to each key and arranged each to connect a corresponding portion of said series in shunt to said condenser in response to operation of its key to reduce oscillation frequency to a selected audible value.

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**2,647,427**
**MUSIC BOX COMB AND SOUNDING BOARD CONSTRUCTION**
**Theodore R. Duncan, North Hollywood, Calif.**
**Application March 4, 1950, Serial No. 147,602**
**19 Claims. (Cl. 84—94)**

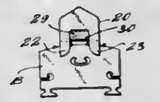


1. In a musical device, a music comb having a base and having elongated deflectable vibrators anchored in the base and extending therefrom substantially in a plane, said base being provided with a convexly curved surface on one side there-

of longitudinally of the base, and a normally flat, thin resonator, and means securing said resonator to said comb against said curved surface in stressed curved condition.

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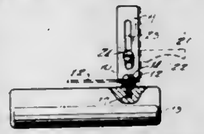
**2,647,428**
**VIOLIN MUTE AND RESIN HOLDER**
**Barney R. Nyhagen, New York, N. Y.**
**Application February 1, 1952, Serial No. 269,437**
**2 Claims. (Cl. 84—310)**



1. A resin holder consisting of a body having a recess extending inwardly from one end and opening through the opposite sides thereof so as to form oppositely disposed wall portions, said wall portions having aligned laterally extending slots opening through the ends and the opposite sides thereof arranged with the slots in one wall portion disposed in alignment with the slots respectively in the other wall portion so as to form resilient tongues on opposite sides of the intermediate slot adapted to resiliently engage the opposite sides of a bridge of a musical instrument for mounting the holder thereon, a resin supply secured in the recess with the outer face thereof disposed substantially flush with the inner ends of said slots, and said wall portions being spaced apart a distance to receive the strings of the bow of a musical instrument therebetween for applying resin thereto with the outer ends of said wall portions forming guides for stroking the strings of the bow over the outer face of the resin supply.

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**2,647,429**
**GUITARIST'S STEEL BAR**
**Charles Fay Smith, Fort Worth, Tex.**
**Application March 21, 1951, Serial No. 216,739**
**5 Claims. (Cl. 84—319)**



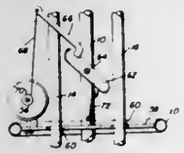
1. In a holder device for a steel bar for playing stringed instruments, in combination with said bar, a tensioned sleeve, cylindrical in transverse section, having a longitudinal division along its underside providing for expansibility, an L-shaped bracket pivotally arranged on the said sleeve opposite said division so that one leg of said bracket is in transverse relationship to said sleeve, a longitudinal slot in the vertical leg of said bracket, and an arm arranged at right angles to said vertical leg and secured by a screw through said slot providing for adjustment of said arm with respect to said sleeve.

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**2,647,430**
**MUTING BAR FOR ELECTRICAL MUSICAL INSTRUMENTS**
**Arden L. Schilling, Decatur, Ind.**
**Application September 25, 1950, Serial No. 186,659**
**8 Claims. (Cl. 84—405)**

1. An electrically actuated musical instrument comprising a tubular frame having depend-

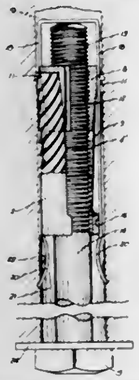
ing therefrom opposed rows of chimes, resiliently mounted strikers for each of said chimes, solenoids for actuating said strikers, a shaft journaled in said frame, a muting bar secured to said shaft, means for actuating said muting bar by urging said muting bar into engagement with



said chimes, resilient means continuously urging said muting bar out of engagement with said chimes, keyboard switch means, and electrical circuit means including said keyboard switch means for activating said solenoids and said muting bar.

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**2,647,431**
**EXPANSION BOLT**
**Warren J. Lewis, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey**
**Application February 15, 1950, Serial No. 144,258**
**12 Claims. (Cl. 85—2.4)**

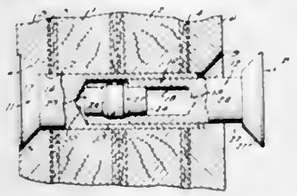


1. In an expansion bolt comprising, a hollow shell expandable at one end and non-expandable at the other end and a threaded expander movable longitudinally into the shell at the expandable end of the shell and a rotatable stud having a threaded engagement with the expander to move the expander, the combination with the shell of separately formed means secured to the shell in independent relation to the expandable end of the shell and bridging the said expandable end of the shell in spaced relation thereto, the said bridging means engageable by the end face of the stud whereby the rotation of the stud will move the expander into the shell to expand the same independent of the separately formed means when the stud is rotated.

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**2,647,432**
**DIVIDED HOLLOW RIVET WITH EXPANDING MEANS**
**Louis C. Huck, Detroit, Mich., assignor to Huck Manufacturing Company, Detroit, Mich., a corporation of Michigan**
**Application September 8, 1948, Serial No. 48,242**
**2 Claims. (Cl. 85—40)**

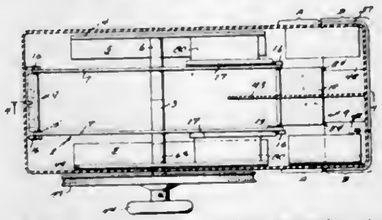
1. A fastener comprising a female member including a head and a shank having a cylindrical recess extending axially inwardly of the end thereof remote from said head, a male member including a head and a cylindrical shank slidably fitting said cylindrical recess and having a cylindrical recess extending inwardly of the end thereof remote from the head of said male member, and a locking element having cylindrical end portions adapted to slidably fit said recess in said male member and an intermediate enlarged portion, the depth of said cylindrical recess in said male member being greater than the combined lengths of one of said end portions and said intermediate portion, the depth of said cylindrical recess in said female member being greater than the combined lengths of the other of said end



portions and said intermediate portion, and the length of said shank of said male member being greater than the depth of said recess in said female member less the length of the other of said end portions of said locking element, so that, upon telescopic movement of said male member into said female member with said locking element mounted on said male member with said one of said end portions received in said recess in said male member, said locking element will engage said female member at the inner end of said recess and the portion of the shank of said male member adjacent said other end thereof will be forced over said enlarged intermediate portion of said locking element and received over a part of said other end portion of said locking element.

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**2,647,433**
**COMPARATOR FOR ASSISTING IN THE IDENTIFICATION OF UNKNOWN STAINS, COLORS, OR THE LIKE**
**Gordon A. Yale, Marblehead, Mass.**
**Application August 19, 1949, Serial No. 111,262**
**17 Claims. (Cl. 88—14)**

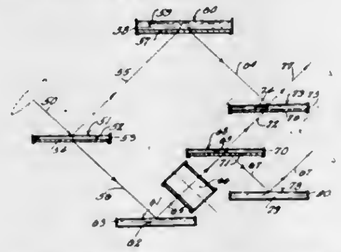


11. A visual comparator for assisting in the identification of unknown stains, colors and the like, comprising a housing, a magazine rotatably mounted on a horizontal axis in said housing, a plurality of different comparison standards mounted upon a series of solid, opaque surfaces, said opaque surfaces being mounted upon said magazine and movable relative thereto, a first viewing area for viewing said standards which viewing area is adjacent said magazine and represents the plane assumed by a standard when in the stop position for comparison with the unknown, means for moving said magazine to bring said standards one at a time into adjacency with said first viewing area, means for moving said standards relative to said magazine when adjacent the viewing area to bring said standards one at a time into viewing position in said first viewing area, a second viewing area with an opaque platform also within said housing to support the unknown in this said area, this second viewing area being positioned adjacent the first viewing area, and the said housing having an aperture in it through which these two areas may be viewed simultaneously in making comparisons.



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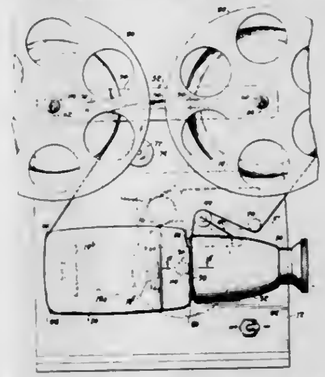
**2,647,434**
**INTERFEROMETER USING LIQUID MIRRORS**
**Theodor W. Zobel, Braunschweig, and Ferdinand Mirus, Weiner, Germany**
**Application July 25, 1950, Serial No. 175,845**
**10 Claims. (Cl. 88—14)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In an optical system for the investigation of light density fields of a test medium comprising means for producing an inclined input collimated light beam; a first partially transparent liquid reflector having its reflecting surface supported to seek a level horizontally across the input light beam for splitting the collimated light beam into an upwardly inclined reflected partial pencil of collimated light and a second relatively diverging downwardly inclined partial pencil of collimated light passing through the liquid reflector; a pair of optically flat reflectors, one disposed across each of the aforesaid light pencils in a horizontal position for reflecting said light pencils toward each other, a second partially transparent liquid reflector supported to seek a level horizontally in both of the partial light pencils at the point of intersection thereof to recombine the partial light pencils by reflecting one of the partial light pencils upwardly in an inclined direction in a vertical plane, and passing the other partial light pencil upwardly therethrough in the same inclined direction; a test chamber for receiving a testing medium having transparent side walls disposed in one of the aforesaid collimated partial light pencils perpendicular to the pencil and located between the said first partially transparent liquid reflector and said second partially transparent liquid reflector; means in the path of the other partial light pencil to compensate for variations in phase in the two partial light pencils caused by the passage of one partial light pencil through the test chamber and the non-passage of the other partial light pencil through the test chamber; one of the said horizontal partially transparent liquid reflectors being shiftable transversely to the plane of its reflecting surface for adjusting the relative linear distance of the two partial light pencils between the said partially transparent liquid reflectors; lens means located in the path of the recombined partial light pencils for producing a light image of the recombined partial light pencils.

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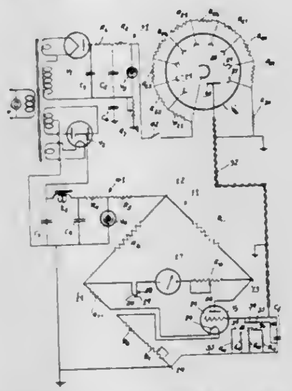
**2,647,435**
**MOTION-PICTURE PROJECTOR**
**Otto R. Nemeth, Los Angeles, Calif.**
**Application May 2, 1950, Serial No. 159,400**
**4 Claims. (Cl. 88—18)**



1. In a motion picture projector, a support, a lamp house carried by the support, a focusing lens carried by the support in closely spaced relation to the lamp house to form a guide passage for the film to be projected, means in the lamp house adjacent the guide passage for engaging the film to be projected and moving said film through the guide passage, an elongated carriage mounted on the support for longitudinal movement, spaced parallel reel mounts on the carriage one supporting a film take up reel and the other a film rewind reel, and friction drive means carried by the support between the reels and connected with the film moving means to be engaged by the periphery of one or the other of said reels when the carriage is moved and causing the reel so engaged to rotate and wind the film thereon.

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**2,647,436**
**ELECTRONIC PHOTOMETER**
**Justin J. Shapiro, Hyattsville, Md., assignor to American Instrument Company, Inc., Silver Spring, Md.**
**Application April 11, 1950, Serial No. 155,237**
**14 Claims. (Cl. 88—23)**



1. An electronic photometer comprising a bridge circuit including a vacuum tube connected in one of its arms, a meter connected to said bridge circuit and being arranged to indi-

cate the degree of unbalance of the bridge circuit, a variable resistance in series with said meter, a photomultiplier tube, a load resistor connecting the control grid of said vacuum tube to one of the terminals of the bridge circuit, a source of direct current, and circuit means connecting said source to said load resistor through the cathode-anode circuit of the photomultiplier tube, whereby the potential on said grid is governed by the photo-emission of the photomultiplier tube, the filament of the vacuum tube being connected in series with another arm of the bridge circuit.

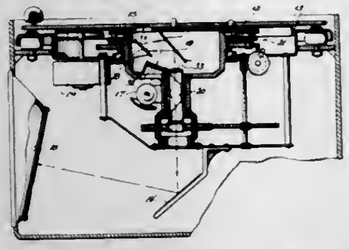
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**2,647,437**

## PICTURE UNIT FOR STEREOPTICONS

**George P. Bentley, Garden City, and Frank R. House, Baldwin, N. Y., assignors to Instrument Development Laboratories, Inc., Williston Park, N. Y., a corporation of New York**

**Application May 17, 1949, Serial No. 93,664**
**9 Claims. (Cl. 88—27)**



1. A stereopticon phonograph record having a series of miniature still pictures concentrically arranged around the center of the record, said pictures being transparencies with a reflecting opaque backing, each picture being adapted to be projected successively and having a transparent juxtaposed coating with non-parallel front and back surfaces, the front surface being normal to the illuminating rays and the back surface being convex and at such an angle that the specular image of the picture is reflected onto the screen while the rays reflected from said front surface do not reach the screen.

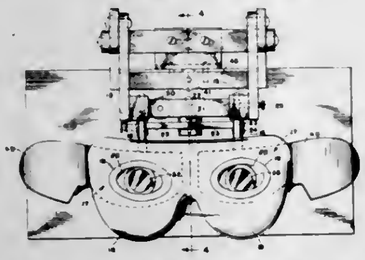
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**2,647,438**

## ADJUSTABLE HEADREST

**Lorus J. Milne, Durham, N. H., Arthur J. Rawson, Rocky Springs, Md., and Haidan K. Hartline, Media, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application August 19, 1949, Serial No. 111,314**
**3 Claims. (Cl. 88—36)**



3. A headrest for a binocular optical instrument comprising mounting means, a supporting bracket, a link pivotally connected at spaced points to said means and to said bracket, the axes of said pivotal connections being parallel, eyemasks for receiving and conforming to the head of the user and each having an aperture therein for sighting therethrough, each of said eyemasks being pivotally mounted on said bracket on an axis at right angles to said first-mentioned axes, said mounting means to be secured to said instrument with said first-mentioned axes disposed in a plane substantially parallel to the plane of the axes of the lenses in the instrument oculars and the pivotal axes of said eyemasks being disposed substantially perpendicular to said plane, adjustable means on said link and on said bracket adapted to engage said instrument for supporting said link and bracket in fixed relation to said instrument, adjustment of said last mentioned means resulting in movement of said eyemasks along a line substantially parallel to and perpendicular to the plane of said lens axes, and means interconnecting said eyemasks for synchronizing the pivotal movements thereof.

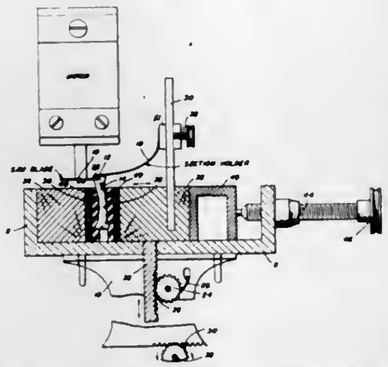
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**2,647,439**

## APPARATUS FOR CUTTING THIN SECTIONS

**Paul G. Roofe and Frank E. Hoecker, Lawrence, Kans.**

**Application August 23, 1949, Serial No. 111,921**
**5 Claims. (Cl. 88—40)**



5. A slicing mechanism comprising a cutter, a holder movable relative to said cutter for clamping the article to be sliced at only one end thereof to allow the free end thereof to extend into the path of said cutter, a resilient strip supported by the holder and curved to yieldingly press against the outer end of said article, and an adhesive carried by the strip for engaging and for retaining the portion sliced in its position relative to the rest of said article both during and subsequent to the slicing operation.

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**2,647,440**

## MOLECULARLY ALIGNED SHEET MATERIAL

**Miles P. Rehorn, Nashville, Tenn.**

**Application August 8, 1947, Serial No. 767,567**
**11 Claims. (Cl. 88—65)**



1. As an article of manufacture, a transparent plastic sheet, each surface of the sheet comprising spaced strips molecularly aligned in one direction and intervening strips filling the spaces and molecularly aligned in a direction at right angles to the first mentioned direction, the strips on one side of the sheet being in register with and in superposed relation to the strips on the opposite side of the sheet, the molecular alignment of each strip being in a contrasting direction to that of the superposed strip in register therewith, all of said strips being confined entirely to and forming surface portions only of the sheet, the sheet being non-laminar, the entire sheet consisting of a continuous body of the same material and of uniform, uninterrupted composition and texture throughout.



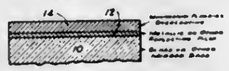
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**2,647,441**

## FRONT SURFACE MIRROR IMPROVED BY TRANSPARENT PROTECTIVE OVERCOATING

**Raymond W. Boydston and Allen J. Eshner, Philadelphia, Pa.**

**Application April 27, 1945, Serial No. 590,571**
**4 Claims. (Cl. 88—105)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



2. In a mirror, a blank of base material, a film of reflecting metal carried by the front surface of said blank, and a tough and durable transparent protective coating of magnesium fluoride covering the surface of said reflecting film in thickness substantially one half or an exact multiple of one half a selected wave length of the light which the mirror is to reflect and serving to reflect visible rays thereof in phase with those reflected by the underlying metal film whereby to add to the mirror's total light reflecting efficiency.

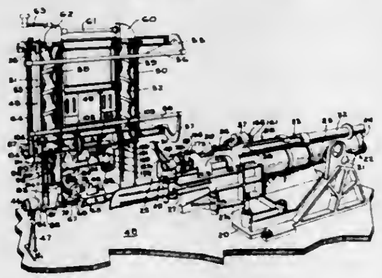
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**2,647,442**

## GUN SHELL FEEDING MECHANISM

**Sigmund Schiff, Cincinnati, Ohio, assignor to the United States of America as represented by the Secretary of War**

**Application December 18, 1945, Serial No. 635,818**
**31 Claims. (Cl. 89—33)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In combination, a gun having a tube-and-breech assembly mounted for recoil and return to battery, a support positioned in fixed relation to said gun, a rammer carried by said support for forward and rearward movement generally along a line paralleling the bore of said tube-and-breech assembly, means responsive to recoil of said assembly for moving said rammer rearwardly, means for releasably retaining said rammer in rearward position while said tube-and-breech assembly returns in counterrecoil, means for carrying a series of shells for said gun, means for delivering individual shells successively from said carrying means into the path of said rammer when the latter moves forwardly, first control means connected between said shell-delivering means and said tube-and-breech assembly and operable in response to return of said tube-and-breech assembly to battery to condition said delivery means for delivery of a shell to said rammer, second control means connected to the aforesaid rammer-release means and operable in response to the absence of a shell from said tube-and-breech assembly to partially condition said rammer-release means for release of said rammer, third control means also connected to said rammer-release means and operable in response to delivery of a shell to said rammer to complete conditioning of said rammer-release means to release said rammer, means for moving said rammer forwardly after release, and fourth control means connected to said shell-delivery means and operable in response to return of said rammer to its forward position for effecting operation of said shell-carrying means to advance of a shell to said shell-delivery means.

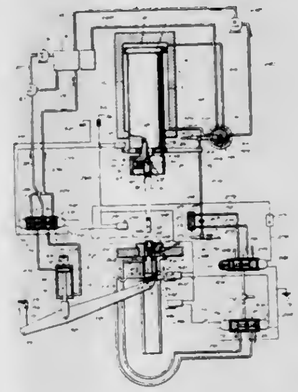
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**2,647,443**

## BROACHING MACHINE

**Arthur A. Weisberger and Robert J. Helton, Hammond, Ind., assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**

**Application July 9, 1948, Serial No. 37,918**
**11 Claims. (Cl. 90—33)**

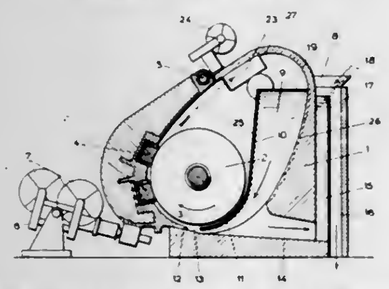


1. A machine of the class described, comprising a fluid motor including cylinder means and ram means presenting spaced advance and return areas therein, a chuck carried by said ram means comprising a pressure head with a socket adapted to receive one end of an associated tool, a collar on said head, spring means for urging said collar to an advance position on said head, tool engaging means carried by said head and communicating with said socket, said collar being operatively connected to said engaging means for holding the same in operative position when said collar is in advance position and for releasing said engaging means when said collar is in retracted position relative to said head, a table adapted to support an associated work piece and having a tool receiving opening, a fluid pressure device beneath said opening comprising a cylinder member and a piston member therein, tool engaging means carried by one of said members

and adapted in advance position of said device to project through said hole in predetermined alignment with said chuck, a second fluid motor operatively connected to said device for advancing and retracting the same relative to said ram, and automatic control means comprising valve means for alternately delivering pressure fluid to and exhausting pressure fluid from respective areas, means for shifting said valve means to advance position thereof whereat pressure fluid is delivered to said advance area and is exhausted from said return area, means for automatically shifting said valve means to neutral position when said ram means reaches advance position relative to said table, means for automatically actuating said second fluid motor to retract said device when said ram reaches advance position, means for automatically shifting said valve means to return position at a predetermined time interval subsequent to actuation of said second motor, means for automatically actuating said second motor to advance said device when said ram reaches return position, and means for automatically actuating said device first to advance and then to retracted position thereof as said second motor actuates said device on the advance stroke thereof.

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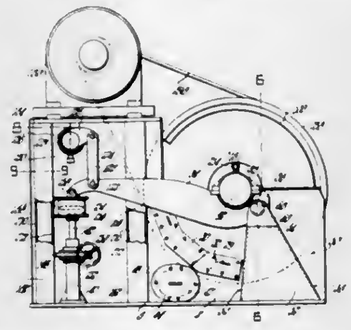
**2,647,444**
**PAPER PULP BEATING ENGINE**
**Edouard Héry, Neuilly-sur-Seine, and Kristen Andreas Thorsen, Grenoble, France**
**Application May 25, 1948, Serial No. 29,158**
**In France May 30, 1947**
**3 Claims. (Cl. 92—22)**



1. A beating engine for paper pulp in which the pulp circulates vertically, comprising a closed beater vat having a rear wall, a front wall, side walls, an inlet at one end of the rear wall thereof for receiving pulp and an outlet at the other end of the rear wall, a beating cylinder in said vat rotatably mounted on a horizontal shaft and spaced from the rear wall, a bed plate in the front wall of the vat having its last contact line with the cylinder disposed above the horizontal diameter of the cylinder and cooperating therewith, a top wall consisting of a plane throwing off part inclined in upward direction substantially tangential to the cylinder along the said last contact line and of a curved extension of said plane throwing off part merging downward into the rear wall, in combination with a longitudinal wall disposed in the vat, between the cylinder and the rear wall of the vat, having the same width as the vat, extending from the lower portion of the vat upwardly above the horizontal plane of the shaft of the drum substantially to a height equal to from about one to about one and a half times the diameter of the cylinder and having a lower curved portion extending into space below the cylinder, said rear wall and said longitudinal wall converging towards each other from the top towards the bottom whereby a pulp reservoir is formed within the vat, of markedly decreasing sections from top to bottom, and having a discharge port at said lower curved portion of the longitudinal wall communicating with space below the cylinder for the discharge of pulp from said reservoir substantially tangentially to said cylinder, said pulp reservoir having an open inlet at its top in the path of pulp freely thrown backwardly over the cylinder after its passage through the bed-plate, whereby the pulp is reintroduced into said reservoir for further circulation.

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**2,647,445**
**BEATER REFINER APPARATUS**
**Dwight E. Jones and Charles H. Vickery, Pittsfield, Mass., assignors to E. D. Jones & Sons Company, Pittsfield, Mass., a corporation of Massachusetts**
**Application December 2, 1950, Serial No. 198,888**
**5 Claims. (Cl. 92—24)**



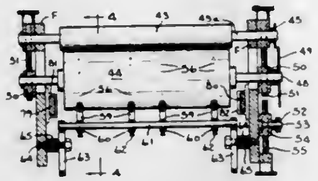
1. A unitary self-contained transportable beater-refiner construction adapted for association with a beater tub or the like comprising in combination, transversely spaced elongated horizontal sole plates and front and mid-walls having longitudinal lower edges secured to said pole plates by welding and extending vertically and upwardly therefrom, upper back-fall and front plate members with a bed-plate base therebetween having corresponding opposite ends fixed to said walls so as to be integral therewith, said upper back-fall and front plate members having adjacent relatively spaced portions secured to opposite ends of said bed-plate base, relative spaced partitions above said bed-plate base between and spaced from said portions having opposite ends fixed to said walls and lower edges fixed to bed-plate base so as to be integral therewith and provide a plurality of pockets for bed-plate boxes, pillars for lighter bars at outer sides of said walls fixed thereto and to said sole plates and extending upwardly vertically relative thereto, lighter-bars having inner ends pivoted to said pillars extending therefrom and having journal means for a roll between said inner ends and forward ends thereof, a transverse equalizer shaft extending through said walls and oscillatable in bearing means secured to said walls, operative connections between outer ends of said lighter-bars and equalizer shaft for corresponding uniform movements of said lighter bars, adjusting means fixed to one of said sole plates adjacent an outer side of one of said walls, and operative connections between said adjusting means and the outer end of one of said lighter-bars, each of said pillars having outer walls fixed



at lower ends to said sole plates by welding and adjacent upwardly converging side walls fixed at lower and inner edges to said sole plates and adjacent walls by welding and horizontally spaced vertically extending pivot mounting members fixed to said outer and side walls and to a horizontal wall fixed to said outer and side walls.

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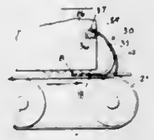
**2,647,446**
**WASTE STRIPPING MECHANISM FOR CARTON BLANK FORMING APPARATUS**
**Gideon Kane, Green Bay, Wis.**
**Application February 28, 1951, Serial No. 213,097**
**2 Claims. (Cl. 93—36)**



1. In the carton blank art, the method of locating waste impaling pins in a stripper roll which comprises taking a roll having a facing capable of anchoring nails and driving nails into said facing and through waste portions of a web containing the carton blank while said web is contacting said roll and then cutting off the projecting ends of said nails to form the impaling pins for the removal of waste from other blanks carried over said roll.

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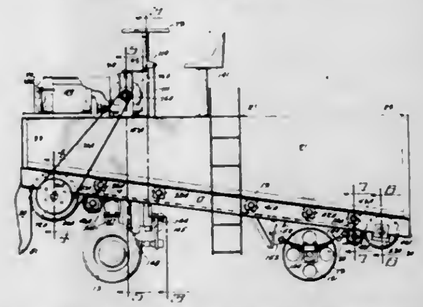
**2,647,447**
**FLAP FOLDING MEANS**
**Noble André, San Francisco, Calif.**
**Application February 28, 1948, Serial No. 11,942**
**3 Claims. (Cl. 93—49)**



1. In a machine for folding a blank of cardboard having perpendicularly arranged pairs of folding creases into a flat collapsed folding box with a plurality of bottom closure flaps forming one of the marginal portions of said blank along one crease of said pairs comprising a horizontally extending carrier movable generally horizontally in one direction for supporting said blank flat and substantially horizontal thereon for movement in said path with said flaps leading, a plurality of fingers extending downwardly across said path supported at their upper ends for swinging of their lower ends to the upper side of said blank as said blank is moved therepast and for folding said flaps rearwardly and flat against the body of said blank adjoining said flaps, means for so supporting said fingers, said last mentioned means being positioned for supporting certain of said fingers at different points along said path longitudinally thereof for folding some of said flaps ahead of others.

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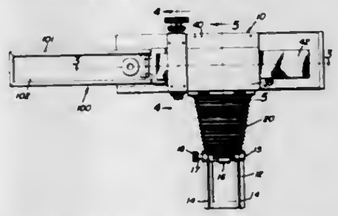
**2,647,448**
**GRAVEL SPREADER**
**George J. Osterfeld, Cincinnati, Ohio, assignor of one-half to Timothy S. Hogan, Loveland, Ohio**
**Application April 19, 1949, Serial No. 88,434**
**1 Claim. (Cl. 94—44)**



A self-propelled gravel spreading vehicle comprising a body formed with a compartment for receiving gravel to be spread, a chassis for supporting the body, a roller extending across the rear of the chassis for supporting the rear of said chassis, one front wheel at each side of the front of the chassis for supporting the front of the chassis and steering the vehicle, a steering wheel operatively connected with said front wheels, a discharge chute extending across the front of said vehicle and ahead of the wheels whereby an operator at the steering wheel can rapidly shift the lateral positions in which gravel is being deposited, said compartment including front and rear end walls and a pair of generally wedge-shaped trapezoidal sidewalls, generally level at the top and the bottom sloping upwardly from rear to front, and a conveyor sloping upwardly from rear to front and forming a bottom for said compartment, said compartment and conveyor extending rearwardly beyond said roller with the greater portion of its volume above said roller, whereby the gravel contained therein adds weight to the roller for applying maximum rolling pressure to the materials discharged from said chute as the vehicle moves forward, said conveyor discharging into said discharge chute, and means for driving said conveyor at the desired speed to control the rate of gravel discharge from said chute.

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**2,647,449**
**REFLEX CAMERA WITH A PICTURE STRIP MOVING TRANSVERSELY ACROSS THE CAMERA BOX**
**Jacob J. Wolf, Jr., New Orleans, La.**
**Application September 13, 1950, Serial No. 184,644**
**4 Claims. (Cl. 95—13)**

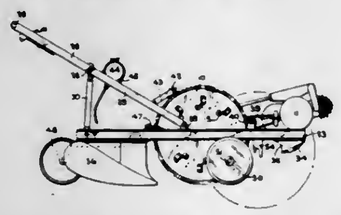


1. A reflex camera assembly comprising a camera box having a plurality of compartments, one of said compartments being an exposure

chamber provided with an objective lens system, a sensitized strip held in said camera box for exposure in a substantially horizontal plane, said strip extending transversely through all compartments of the camera box, along the bottom thereof and being adapted to be moved through all compartments of said box in a lighttight manner in a direction substantially at right angles to the optical axis of the objective lens system along the bottom of the camera box, a second translucent strip arranged near the top of the camera box above the exposure chamber substantially parallel to and being adapted to be moved along with said sensitized strip, a lighttight strip storage compartment adjacent one wall of the exposure chamber, a further lighttight compartment adjacent the opposite wall of the exposure chamber, both walls being provided with aligned substantially horizontal slots for a lighttight passage of the sensitized strip, the wall between said exposure chamber and said further box projecting above the exposure chamber and being provided with a further slot near its top for the passage of the translucent strip, a strip guide between the two aligned slots near the bottom of the camera box, supporting the strip on its underside and guiding its marginal portions, a pair of strip advancing rollers substantially aligned with the lower slot in the said further lighttight compartment, a pair of strip advancing rollers substantially aligned with the top slot in the said last named compartment, coupling means between the said pairs of rollers, manual means for operating one of said pairs of rollers and reflecting means within said camera box arranged between said strips and adapted to be turned either towards the one or towards the other strip.

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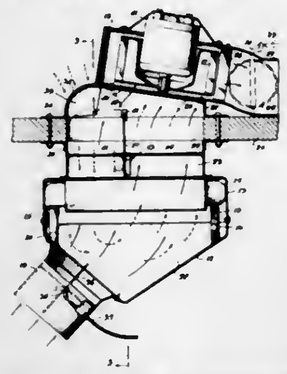
**2,647,450**
**MOTOR-PROPELLED CULTIVATOR**
**Sydney Smith, Swanage, Dorset, England**
**Application July 23, 1947, Serial No. 762,964**
**In Great Britain May 1, 1946**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires May 1, 1966**
**8 Claims. (Cl. 97—47.01)**



1. A cultivating machine for the purpose set forth comprising a body, a power unit, said body being adapted to carry a tool for operating upon the soil, said body being mounted upon a driving wheel disposed forwardly of said tool, driven from said power unit and comprising a disc provided on at least one of its side faces with laterally extending blades and including portions which are substantially radial with respect to the wheel axis for penetrating into the ground to propel the machine along, and portions adapted to limit the depth of said penetration disposed intermediate said radial portions and the centre of the wheel and lying in a plane substantially at right angles to adjacent radial portions, and a member secured at the forward end of the body and projecting downwardly therefrom towards the ground with its lower face spaced from the ground in the normal operation of the machine, whereby said member is adapted to engage the ground and constitute a pivotal support for the machine on raising the rear end of the latter with the driving wheel clear of the ground at least the part of said member which is adapted so to engage with the ground being of substantially circular cross-section so as to facilitate the turning round of the machine.

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**2,647,451**
**AUTOMOBILE HEATER**
**John M. Auflero, Plandome, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York**
**Application July 30, 1949, Serial No. 107,739**
**4 Claims. (Cl. 98—2)**



1. An automobile heater assembly including in combination a first casing; a core in said first casing; means coupling said core to the water cooling system of said automobile; an inlet opening in said casing and an outlet opening in said casing; a second casing; a motor driven air impelling means in said second casing; an inlet opening in said second casing; a duct extending between and connecting said outlet opening of said first casing and said inlet opening of said second casing; a partition wall extending from said core through said duct toward said second casing terminating adjacent to but spaced from said second casing; a passage in said duct between said partition and said second casing; and inlet opening in said duct adjacent to and spaced from said passage; and means in said duct for closing said duct inlet, said means being movable to open said duct inlet and close said passage whereby the direction of flow of air through a portion of said core is determined by the positioning of said opening and closing means.

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**2,647,452**
**AIR BLENDING TEMPERATURE CONTROL FOR HEATING AND COOLING SYSTEMS**
**Laurance H. Gillick, Evanston, Edward A. Russell, Chicago, and Norman O. Kirkby, Elmhurst, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware**
**Application January 30, 1948, Serial No. 5,248**
**9 Claims. (Cl. 98—10)**

1. The combination with a railway car having hollow side wall structures defined by inner and outer panels, a series of windows in each side wall structure and vertical passages between adjacent windows; of means for blending air of different temperatures and delivering it into the said vertical passages between the windows com-



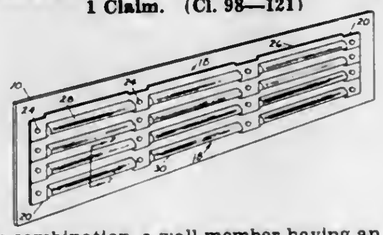
prising a main air conduit including a primary section extending longitudinally of the car, means for forcing air, at a desired temperature, into one end of said primary section, a return duct section communicating with the other end of said primary section and extending lengthwise of the car, means defining pairs of air discharge ports, composed, in each case, of a port



in each section of the main conduit, separate branch ducts for conducting air discharged from said pairs of discharge ports into said vertical passages in the walls of the car to alter the temperature of the inner panel thereof, means defining air outlet ports for discharging the air from said vertical passages, and a separate proportioning valve for each pair of discharge ports adapted to be adjustably positioned to vary the effective areas of its associated discharge ports.

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**2,647,453**
**LOUVER**
**Saul M. Ferman, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware**
**Application August 21, 1950, Serial No. 180,660**
**1 Claim. (Cl. 98—121)**

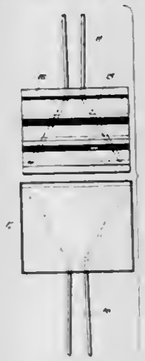


In combination, a wall member having an elongated opening intermediate its ends, the wall member also having a plurality of cross strips spaced from one another to provide apertures, there being a plurality of holes in each cross strip, a plurality of louvers extending in spaced parallel relationship across the apertures, each louver including, a plurality of completely flat heads spaced in accordance with the spacing of the cross strips, there being a hole in each flat head adapted to be aligned with a corresponding hole in its associated cross strip, means extending through the holes in the flat heads and cross strips to attach the louvers to the wall member, a plurality of flat bands joining the flat heads, and an offset portion extending from each flat band at a predetermined angle to the flat band to provide a ventilation opening through the wall, the flat bands and offset portions defining on each flat head a projection at one side and an undercut at the opposite side to provide an interleaving of the flat heads on the different louvers when the louvers are attached to the cross strips in abutting relationship.

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**2,647,454**
**OPEN FIRE COOKING DEVICE**
**Jesse J. Shelley, Chicago, Ill.**
**Application December 29, 1950, Serial No. 203,394**
**2 Claims. (Cl. 99—441)**

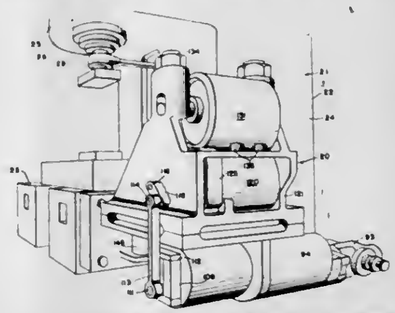
1. A radiant heat cooking device for ground meat comprising a handle supporting a corrugated sheet metal member having large and small alternate corrugations arranged perpendicular to said handle, said corrugations extending between two parallel planes, another handle supporting a flat sheet metal member having parallel edge portions perpendicular to the remainder of said metal member for closing the ends of said corrugations when said members are placed together



thereby to form a plurality of separate enclosed compartments, each compartment being subject to radiant heat on each surface thereof, and means along the outer edges of said members remote from said handles for removably connecting together said members comprising on the flat member a folded over position and on the corrugated member a flat projecting edge portion to fit within said folded over portion.

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**2,647,455**
**HYDRAULIC APPARATUS**
**Cecil E. Adams, Columbus, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio**
**Application February 24, 1947, Serial No. 730,504**
**6 Claims. (Cl. 100—137)**

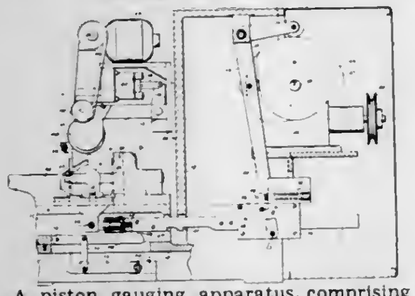


1. Mechanism for feeding elongated material to apparatus for performing operations thereon comprising a source of fluid pressure; a rotary fluid motor; a feed roll; motion transmitting means actuated by said fluid motor to rotate said feed roll a predetermined distance upon each cycle of operation of said motor, said means having a crank secured for operation by said motor; a one-way clutch for said feed roll having a driven member connected with said feed roll and a driving member; means for transmitting motion from said crank to the driving member of said clutch; a valve mechanism between said pressure source and said motor; and valve actu-

ating means operated by and controlled in part by said fluid motor to govern fluid flow from said source to said motor to limit the latter to one cycle of operation at a time.

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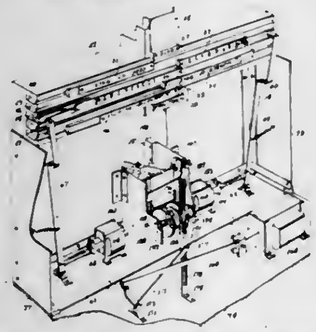
**2,647,456**
**GAUGING DEVICE**
**Willis Fay Aller and Anthony J. Page, Dayton, Ohio, assignors to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio**
**Application February 26, 1949, Serial No. 78,508**
**7 Claims. (Cl. 101—43)**



1. A piston gauging apparatus comprising a support having a gauging station and a loading station, each at a fixed location thereon, means in said gauging station for gauging piston dimensions, guide means on said support extending rectilinearly from the loading station into said gauging station, a piston holder carried on said guide means, drive means connected to said holder for cyclically sliding it from the loading station into said gauging station and return, marking means associated with said gauging station having a series of different characters indicative of different piston dimensions, a series of switch means operatively connected to said gauging means and instantaneously responsive to the gauging means in accordance with a size dimension of the piston, and means controlled by said switch means for operating said marking means to bring a selected character into marking position and apply the selected character to the piston.

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**2,647,457**
**TICKET ISSUING AND PRINTING MACHINE**
**Edgar S. Spargo, Miami Springs, Fla., assignor to Sparson Engineering Corporation, Miami Springs, Fla., a corporation of Florida**
**Application June 1, 1949, Serial No. 96,527**
**24 Claims. (Cl. 101—69)**

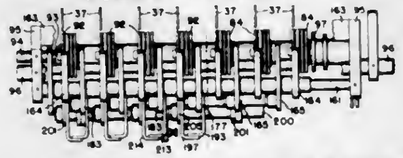


1. A machine for printing and issuing tickets comprising, in combination, a stationary bar having therein a longitudinal slot and a plurality of spaced transverse openings intersecting said longitudinal slot, a bar having a plurality of printing type characters on the face thereof movable in said slot, a plurality of pins slidable in said transverse openings, a plurality of digital keys each corresponding to one of the characters on said movable bar, and electromechanical means responsive to actuation of one of said keys for moving said movable bar, moving one of said pins ahead of and across the path of said movable bar to interrupt movement of said movable bar, printing the character corresponding to said one key onto a ticket, and ejecting the printed ticket from the machine.

20. In a ticket issuing mechanism, a plurality of keys representing different digital values, a reciprocating number bar, means including an electromagnetic device responsive to operation of one of said digital keys for moving and then holding said number bar at a predetermined position, a type bar, an electromagnetic escapement device for moving said type bar step-by-step, and an electromagnetic device responsive to operation of said one digital key for rendering ineffective said escapement device.

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**2,647,458**
**TICKET PRINTING MECHANISM**
**Mayo A. Goodbar, Oakwood, and Russell G. Pratt, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Application August 31, 1949, Serial No. 113,404**
**6 Claims. (Cl. 101—70)**



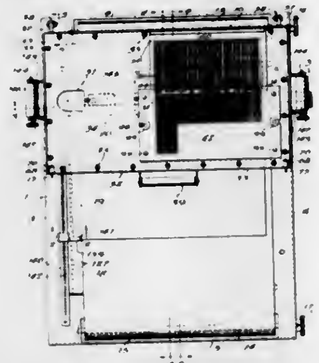
2. In a machine for printing and issuing several classes of tickets, the combination of a horizontal axle; a set of price storage elements for each class of tickets, mounted on the axle, said sets of elements settable to the prices of the corresponding classes of tickets; a set of ticket number elements for each class of tickets mounted on the axle; printing means for the sets of elements; means corresponding to the various classes of tickets for selecting the corresponding sets of storage and number elements for coaction with the printing means to cause the price and the number to be printed on each ticket issued in the different classes; and means common to all the sets of number elements and operating independently of the price storage elements to enter one in the selected set of number elements each ticket issuing operation to count the number of tickets issued in each class.

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**2,647,459**
**SETTABLE PRINTING MEANS IN ACCOUNTING MACHINES**
**Eugene E. Murphy, Chicago, Ill.**
**Application March 19, 1947, Serial No. 735,703**
**21 Claims. (Cl. 101—90)**

1. A printing machine comprising in combination, a frame, means for carrying record sheets interleaved with duplicating material upon said frame, a type frame swingably mounted at an end of said frame and above said record sheets, movable type characters carried upon said type frame, means for selecting and disposing predetermined type characters in printing position upon said type frame, means for locking said type frame in operative position above said record sheets with the type faces extending downwardly and in proximity to and in confronting relationship with said record sheets, means for reciprocally pressing said record sheets and interleaved duplicating material against said predetermined type characters carried in said printing position to imprint said record sheets with duplicate data, means connecting said locking means and pressing means for unlocking said type frame at the end of the pressing operation, and resilient means for moving said type frame upwardly to inoperative position with the type faces spaced a predetermined distance above the record sheets after the printing of said duplicate data.

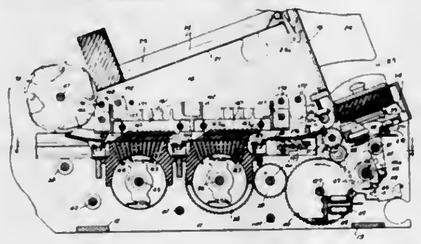




13. A control card for printing machines of the type comprising a type frame carrying movable type bodies disposed in predetermined relationship upon said type frame and means for pressing sheets to be printed into printing contact with preselected type bodies, comprising a relatively rigid sheet, indicia upon said sheet corresponding to the positional relationship of the type bodies on the type frame, and movable means carried upon said sheet indexed by said indicia and adapted to engage predetermined type bodies upon said type frame and move said predetermined type bodies preselected by the position of said movable means upon said sheet.

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**2,647,460**
**RECORD CONTROLLED DUPLICATE PRINTING MACHINE**
**Edward J. Rabenda, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application February 26, 1949, Serial No. 78,562**
**14 Claims. (Cl. 101—93)**



1. In a machine for printing the same multiline information or address twice under control of a single address bearing record, sensing means for said record, means for printing under control of said sensing means said multiline address once, means automatically operable upon completion of printing of the address the first time to again initiate the operation of the preceding named address printing means to print the same address a second time under control of the same record, said initiating means attempting, upon completion of printing the address a second time, to again initiate the operation of the initiating means to print the same address a third time, and means controlling said last named initiating means and operable upon completion of printing the address a second time to prevent the initiating means from again being operable upon completion of printing the address a third time.

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**2,647,461**
**HAND STAMP**
**Robert R. Robinson, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Application January 16, 1952, Serial No. 266,639**
**4 Claims. (Cl. 101—109)**



1. A printing stamp including, in combination, two mating casing pieces each open at one end and hinged together so as to be adjustable to open condition with the open ends facing each other to form a continuous hollow space from one casing piece to the other, and foldable to closed condition with the casing pieces in side-to-side contact and the open ends faced in the same direction; one or more flexible strip-like printing elements housed in the hollow spaces of said casing pieces and of shorter length than the combined length of said hollow spaces so as to be selectively movable back and forth between the casings when in unfolded condition, said elements having resilient type therealong, whereby upon movement of said elements the selected type may be positioned at the hinge between said casing pieces so that when the casing pieces are folded to closed position the type at the hinge are exposed; detent means secured to one end of each of said strip-like elements and cooperating with means having detent formations on one of said casing pieces so the associated strips may be adjusted to a selected position and maintained there; and extendable spring means for connecting the other end of each of said strips to the end of the other casing piece opposite the hinge, whereby said strips in their adjusted position are tautly but resiliently held.

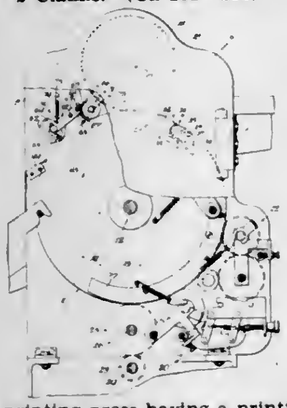
2,647,462

## SHEET STRIPPING MEANS FOR PRINTING PRESSES

**Edward F. Dell, Chicago, Ill., assignor, by mesne assignments, to Davidson Corporation, a corporation of Illinois**

**Original application April 29, 1949, Serial No. 90,509. Divided and this application April 24, 1950, Serial No. 157,686**

**2 Claims. (Cl. 101—232)**



1. In a printing press having a printing cylinder and form cam means the combination of a frame member pivotally mounted at its opposite ends on said press about an axis extending substantially parallel with the axis of said cylinder, a pressure roll shaft mounted at its opposite ends in said frame member to extend substantially parallel with the axis of said cylinder, pressure roll means carried by said shaft for engaging a sheet carried on the periphery of said cylinder, a follower carrier frame pivoted about a fixed axis on said frame member, a cam follower rotatably mounted on said follower carrier frame for engaging the form roll cam means carried by said cylinder, resilient means positioned between said follower carrier frame and said frame member for normally preventing pivotal movement of said follower carrier frame relative to said frame member, and means for normally biasing said frame member in a direction for engaging said follower with said form roll cam means, whereby said frame member is adapted to be rotated to engage said pressure roll means with a sheet carried on said cylinder upon engagement of said follower with said form roll cam means.

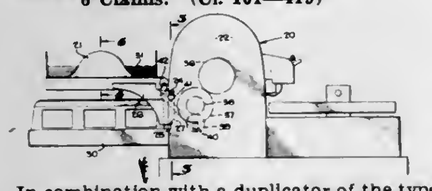
2,647,463

## SLIP SHEETER ATTACHMENT FOR DUPLICATORS

**Bernard Ferrar, Los Angeles, Calif.**

**Application May 10, 1949, Serial No. 92,280**

**6 Claims. (Cl. 101—419)**



1. In combination with a duplicator of the type having driven printing elements adapted to print sheets and eject the same from between said printing elements into a receiving tray of said duplicator, and a paper feed mechanism connected to operate synchronously therewith to feed sheets thereto, and in which said paper feed may be interrupted while said printing elements are running, a slip sheeter attachment comprising: a rectangular frame adapted to receive a stack of slip sheets; a pair of brackets secured to said frame and attached by pivots arranged on a transverse axis adjacent the rear of said duplicator above said receiving tray whereby said slip sheets are normally positioned to drop into said receiving tray on top of printed sheets therein and whereby said frame may be tilted upwardly about said axis to remove printed sheets and slip sheets from said receiving tray; a pair of longitudinal rods rotatably mounted in said frame and positioned to support said slip sheets thereon adjacent the lower edges of said stack, said rods being longitudinally grooved whereby concurrent rotation thereof buckles the lowermost of said slip sheets downwardly to eject the same into said receiving tray; a pair of bevel gears, one mounted on each of said rods; a transverse shaft having a second pair of bevel gears thereon, each meshed with one of said first gears whereby a partial rotation of said shaft effects concurrent partial rotation of said rods; a crank on said shaft having a crank pin parallel to and adjacent said axis; a disengageable connecting member connected between said printing elements and said crank pin to actuate the latter each time a sheet is printed; and a control member operatively connected between said paper feed mechanism and connecting member to disengage the latter when said paper feed is interrupted.

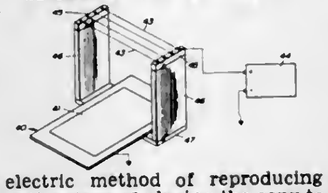
2,647,464

## ELECTROGRAPHY

**James P. Ebert, Columbus, Ohio, assignor, by mesne assignments, to Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware**

**Application October 26, 1949, Serial No. 123,651**

**21 Claims. (Cl. 101—426)**



1. An electric method of reproducing copy, comprising the steps of placing the copy to be reproduced in contact with the dielectric layer of an electrographic plate comprising a conductive backing plate with a dielectric coating layer, subjecting such assembly to an electrostatic discharge, removing the original copy from the electrographic plate, contacting the plate with an electrically charged powder, transferring the powder image so formed to a second surface, and fixing the transferred image to said second surface.

2,647,465

## DEVICE TO RESIST THE DISARMING OF BOMBS

**Jacob Rabinow, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army**

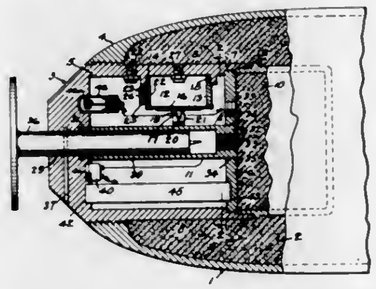
**Application June 3, 1952, Serial No. 291,588**

**3 Claims. (Cl. 102—70)**

**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. Means to resist disarming of a bomb of the character described comprising a hermetically sealed container within the bomb, a second hermetically sealed container within the first mentioned container, each of said containers being equally pressurized, pressure equalizing means incorporated in said second container for maintaining equal pressure in each container, a double acting switch mounted on the interior





surface of the first mentioned container, a diaphragm comprising one wall of the second container, the moving element of the switch operatively connected to the diaphragm, the diaphragm causing said switch to close an electric circuit containing a detonator when there is a substantial difference in pressure in either container.

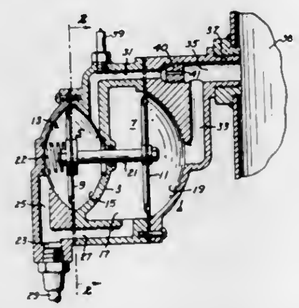
2,647,466

## DIAPHRAGM-TYPE AIRCHARGER

**Floyd M. Nash, Kensington, Calif., assignor to Jacuzzi Bros., Incorporated, a corporation of California**

**Application March 24, 1952, Serial No. 278,235**

**4 Claims. (Cl. 103—6)**



1. A diaphragm-type aircharger comprising a casing having a pair of chambers; means partitioning each of said chambers into two compartments, said means including a diaphragm; means interconnecting said diaphragms to assure movement of one with movement of the other; means normally displacing said diaphragms, in the absence of restraint, toward corresponding walls of said chambers to enlarge one compartment and reduce the other in each of said chambers; means flow-connecting the enlarged compartments of said chambers to a common outlet; means flow-connecting said reduced compartments to a common passage out of said casing; an air inlet valve mounted in said casing in communication with one of said reduced compartments, and a constriction in the flow-connecting means to said valve associated compartment.

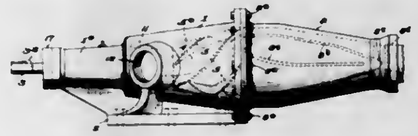
2,647,467

## SCREW PUMP

**John H. Davis, Detroit, Mich., assignor to Jessie A. Davis Foundation, Inc., Detroit, Mich., a corporation of Delaware**

**Application May 28, 1946, Serial No. 672,801**

**8 Claims. (Cl. 103—89)**



1. A liquid pump, comprising an impeller chamber contracting towards one end into an inlet; a nose chamber of greater length than the impeller chamber connected to the larger end of the impeller chamber and contracting towards its outer end into an outlet; a driven shaft entering the inlet end of the impeller chamber coaxially thereof; an impeller on said shaft within the impeller chamber and comprising a substantially cone-shaped head enlarging towards the nose chamber, a series of spirally arranged fins on said cone head having a steep pitch, said fins being spaced from the walls of the impeller chamber, and a sleeve surmounting the fins and rotatable with the head, said sleeve having a slight clearance from the walls of the impeller chamber; the space between the head and sleeve progressively decreasing toward the larger end of the impeller; an inlet port at the inlet communicating with the smaller end of the impeller and having a feed opening communicating therewith; and said nose chamber having an axially disposed core therein whose outer surface is substantially parallel with the inner wall of the nose chamber throughout the major portion of its length thereby maintaining the area between the core and nose chamber substantially constant throughout its length, and said nose chamber having fixed axially disposed fins between its inner wall and the surface of the core adapted to convert the rotary motion of the liquid emerging from the impeller into rectilinear motion within the nose chamber before emerging from the outlet, the area between adjacent fins and the head and sleeve of the impeller remaining substantially constant throughout the length of the head, to maintain a constant volume of liquid passing through the impeller.

2,647,468

## TOY CAR-TRUCK RAIL ALIGNER

**Norman Saunders, Washington, D. C., assignor to Trackon Co., Inc., Washington, D. C.**

**Application June 12, 1950, Serial No. 167,609**

**3 Claims. (Cl. 104—264)**



1. A toy car truck rail aligner comprising an inclined ramp adapted to be mounted over the rails

of a track, a pair of parallel wheel engaging rails longitudinally on said ramp and extending beyond the lower end of said ramp to terminate in juxtaposition to the track rails, said parallel rails being spaced a distance not greater than the track rails and being of a length to simultaneously engage all wheels of a car, and wheel flange engaging guide means on the upper end portion of said ramp and tapered optwardly from its upper end to juxtaposition with the upper ends of said parallel rails.

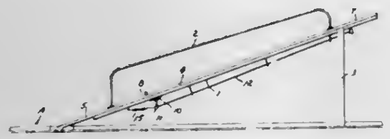
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2,647,469

## LAUNCHING PLATFORM TO BE USED IN CONNECTION WITH TOY TRAINS

Norman Saunders, Washington, D. C.

Application November 7, 1950, Serial No. 194,537
1 Claim. (Cl. 104—264)



A toy car truck rail aligner comprising an inclined ramp adapted to be mounted over the rails of a track, a pair of spaced parallel wheel engaging rails on said ramp and extending beyond the lower end of said ramp to terminate in juxtaposition to the track rails said parallel rails being of a length to simultaneously engage all of the wheels of a car, a pair of short rail sections on the upper end portion of said ramp and inclined from the upper ends of said parallel rails to a juncture at their upper ends, an opening in the lower portion of said ramp spaced below said short rail sections and between said parallel rails, and a car engaging retainer including a bell crank pivotally mounted on the underside of said ramp and having on one arm a hooked end extending up through said ramp opening within the path of a car to hold the car on the ramp, a spring between said bell crank and said ramp and biasing said hooked end into car engaging position, a guide means on the under side of said ramp between said retainer and the rear end of said ramp, and an elongated trigger slidable in said guide means and connected at one end to the other arm of said bell crank and extending to the rear end of said ramp.

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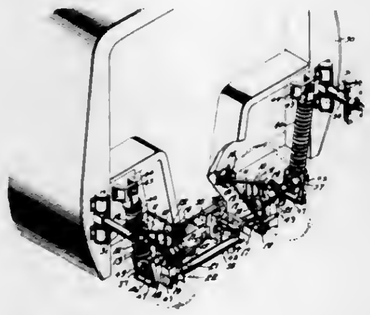
2,647,470

## AXLE MOUNTING

James MacVeigh, New York, N. Y., assignor to Patentes Talgo, S. A., Madrid, Spain, a corporation of Spain

Application April 22, 1949, Serial No. 88,969
6 Claims. (Cl. 105—4)

1. A mounting for railway cars, comprising the combination with a car body and a wheel axle, of a pair of substantially vertical spring struts supporting opposite sides of the end of the car on the axle, universal joints at each end of each vertical strut, a pair of parallel horizontal radius rods, universal joints connecting the radius rods to the vehicle body, and jointed means connecting the rods with the axle, the jointed connecting means having vertical axes intersecting the turning axis of the axle and including resilient means resisting torque tending to turn the axle about a horizontal axis, allowing re-



stricted endwise movement of the axle relative to the radius rods and restricted downward tilting of the adjacent end of the car body.

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2,647,471

## CONTROL MECHANISM FOR PNEUMATICALLY OPERATED RAILWAY DUMP CARS

Einar O. Lunde, Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y., a corporation of Delaware

Application February 21, 1949, Serial No. 77,655
4 Claims. (Cl. 105—271)



1. Mechanism for successively operating a directional valve and a manual control valve in the pneumatic operating system of a railway dump car having a frame; comprising a pair of spaced brackets rigid with the frame, a directional valve operating rod mounted in said brackets for both rotatable and axial movement, a pair of axially aligned manual valve operating rods mounted in said brackets for both rotatable and axial movement and being disposed in laterally spaced parallel relation to said first rod, operating connections between said first rod and said directional valve including a bell crank operable upon axial movement of said first rod, means cooperating with said frame and said first rod providing for axial movement thereof in a single rotated position thereof, means on each of said pair of rods engageable with an arm on said manual control valve upon rotation of either rod when in a predetermined axial position, and cooperating means on said first rod and each of said pair of rods for alternately moving said pair of rods to said predetermined axial positions upon corresponding axial movement of said first rod in respective opposite directions, and means cooperating with said brackets and said pair of rods for preventing rotation thereof until moved axially from normal inoperative position upon corresponding axial movement of said first rod.

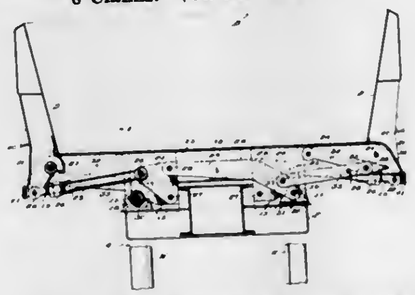


2,647,472

## DUMP CAR DOOR CONTROL MEANS

Einar O. Lunde, Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y., a corporation of Delaware

Application May 5, 1949, Serial No. 91,557
8 Claims. (Cl. 105—272)



1. In a dump car including an underframe and body supported thereon for tilting movement about an axis adjacent one side thereof, a door disposed at said side of the body and pivotally connected thereto adjacent the floor thereof, and cooperating rod, crank and link means interconnecting the underframe with said door below its pivotal connection with the body, said means being operative to retain the door closed when the body is in horizontal normal position and said rod, crank and link being movable relative to the body to permit said door to open upon tilting of the body about said axis, said means comprising an elongated link having one end thereof pivotally connected to said underframe, adjacent the opposite side of the body, a substantially triangular bell crank disposed between said axis and said link and to which the opposite end of said link is pivotally connected adjacent one vertex thereof, the bell crank being pivotally supported by the body adjacent a second vertex thereof, an elongated sleeve having one end thereof pivotally connected to the bell crank adjacent the third vertex thereof and a rod slidably disposed in said sleeve and having one end thereof pivotally connected to the door, and an abutment on said rod for engaging the opposite end of said sleeve.

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2,647,473

## CAR ROOF HATCH COVER OPERATING MECHANISM

Einar O. Lunde, Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y., a corporation of Delaware

Application June 20, 1951, Serial No. 232,570
6 Claims. (Cl. 105—377)



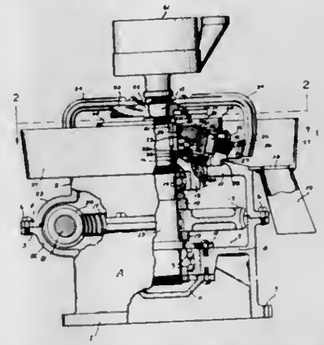
1. In combination with a plurality of hatches each including a frame and a cover pivotally connected thereto, a resilient strap spanning said cover and having one end pivotally connected to said frame, and manually operable means engageable with the free ends of said straps for simultaneously forcing the straps of said plurality of hatches down into closing engagement with the covers thereof.

2,647,474

## FEED COMPRESSING MACHINE

Aaron Popick, Portland, Oreg.

Application September 30, 1949, Serial No. 116,837
9 Claims. (Cl. 107—14)



1. In a machine of the character described, a stationary, annular die provided with a plurality of spaced, radially disposed openings, means for supporting said die, a shaft journaled within said means and disposed axially with relation to said die, a supporting spider secured to said shaft and confined entirely within the space surrounded by said die, a plurality of compressing members supported upon said supporting spider, each of said compressing members being disposed with relation to the inner face of the die so that its forward end is slightly spaced from the inner face of the die and the rearward end is positioned in close proximity to the inner face of the die, means associated with each of said compressing members for adjusting their spacing with relation to the inner face of the die, independently actuated means associated with said supporting spider for adjusting the spacing of said feed compressing members with relation to the inner face of the die, and means secured to the supporting spider and to the die supporting means for scarifying any of the materials deposited below the compressing members.

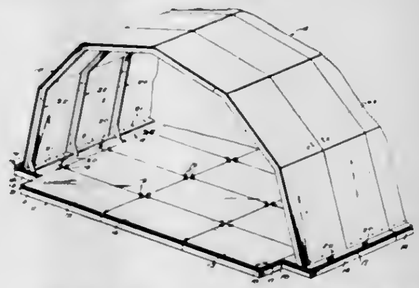
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2,647,475

## KNOCKDOWN ARCH STRUCTURE

Albert Dietrich, New York, N. Y., assignor to the United States of America as represented by the Secretary of the Army

Application June 19, 1950, Serial No. 169,022
5 Claims. (Cl. 108—1)

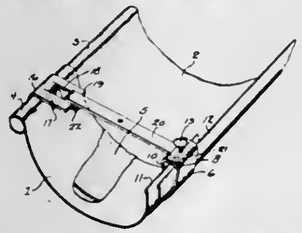


1. A regular semi-polygonal arch, comprising a plurality of substantially identical angle elements of L-shaped cross section, each element comprising a relatively long leg and a relatively

short leg extending from said long leg at an angle, each element comprising a major section comprising the major portion of said long leg and a minor section comprising said short leg and an adjacent portion of said long leg of the same length as said short leg, a plurality of arch forming units, each unit comprising a pair of said elements, said elements of each pair being reversed end-for-end and disposed with the major sections thereof in registered back-to-back relation, means connecting said registered major sections together and thereby forming a plurality of arch units, each arch unit having a central portion of T-shaped cross section and end portions of L-shaped cross section, said end portions comprising the minor sections of the paired elements, and means connecting the end portions of a plurality of said units together in registered back-to-back relation and thereby forming said arch.

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**2,647,476**
**EAVES TROUGH CLAMP**
**Melvin W. Gibbons, Brandon, Wis., assignor of one-third to Wayne J. Gibbons and one-third to James A. Burke, both of Brandon, Wis.**
**Application February 16, 1951, Serial No. 211,421**
**8 Claims. (Cl. 108—28)**

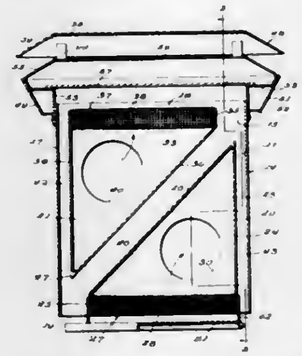


1. An eaves trough clamp applicable about the lapping ends of successive eaves trough sections having front and rear margins, said clamp comprising a first element having an arcuately shaped portion and adapted for encircling engagement about the lower sides of the eaves trough sections and for hooked engagement over both the front and the rear margins thereof, said arcuately shaped portion having a bifurcated hook for engagement over one of said margins, together with a second clamp element having a hook at one end for interlocking engagement with said first element and having at its other end a hook receivable through the bifurcated hook of the first element for engagement with the margin of the inner eaves trough section only, and pressure exerting means acting upwardly through the bifurcated hook upon the first element and the lower of said lapping trough sections, and downwardly upon the last mentioned hook of the second element and upon the upper of said lapping trough sections.

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**2,647,477**
**VENT PROTECTING AND DRAFT EQUALIZING DEVICE**
**James Woodward Martin, Denver, Colo., assignor to Lone Star Gas Company, Dallas, Tex., a corporation of Texas**
**Application August 4, 1950, Serial No. 177,723**
**10 Claims. (Cl. 110—147)**

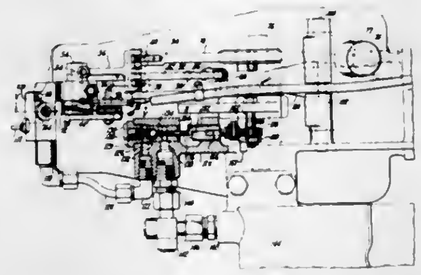
10. In a vent protecting and draft equalizing device for the air intake and exhaust conduits of fuel-burning equipment; a vertically disposed rectilinear housing open at its lower and upper ends, separate air receiving and vent discharging chambers formed respectively within and substantially filling the lower and upper portions of said housing, said air chamber having a downwardly directed elongated inlet mouth and said vent chamber having an upwardly directed elongated discharge mouth, both lying within the confines of said housing, respectively adjacent the lower and upper ends thereof, draft deflecting baffles extending across and in spaced relation



to the open ends of said housing, one wall of said air chamber having an air outlet opening from said air chamber, one wall of said vent chamber having a vent inlet opening to said vent chamber, means connecting these respective openings to said air intake and exhaust conduits, and equalizing passageways formed between the walls of said housing and respective chambers connecting the open lower and upper ends of said housing.

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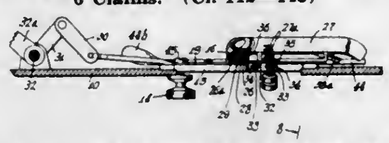
**2,647,478**
**SHOE SEWING MACHINE**
**Fred C. Eastman, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application January 21, 1949, Serial No. 71,990**
**27 Claims. (Cl. 112—37)**



1. A shoe inseam sewing machine having stitch forming devices including a curved hook needle, a looper, a take-up and a thread tensioning device comprising a stationary friction member about which the thread is wrapped, in combination with resiliently mounted means controlled by the tension of the thread between the friction member and the other stitch forming devices to snub the thread as it first engages said friction member.



**2,647,479**
**HEMMER**
**Achille J. Gentilio, Jackson Heights, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York**
**Application March 28, 1952, Serial No. 279,056**
**6 Claims. (Cl. 112—143)**



1. A hemmer attachment for a sewing machine for producing a downstitched hem having an elastic core therein comprising a base; a longitudinally split folder thereon comprising relatively movable parts, each of said parts being provided with a fabric guiding channel extending therethrough and provided with a spaced, facing turning portion to form the edge of the fabric into a double turn tubular hem and having a centrally disposed elastic core guiding channel extending therethrough; an adjustable tensioning means on the attachment to engage the core to provide a required tension on the core; seprating means connected to the movable part and operable to separate said parts along the longitudinal split therein to release the fabric from the fabric guide channel and the core from the elastic core guiding channel; and means on the tensioning means actuated by movement of said last means to automatically release the tensioning means incident to separation of the folder parts.

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**2,647,480**
**PRESSER FOOT GAUGE**
**Matthew Murino, New York, N. Y.**
**Application May 4, 1950, Serial No. 159,895**
**1 Claim. (Cl. 112—151)**

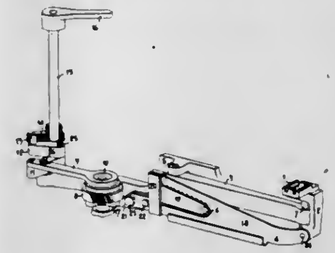


A combined presser foot and gauge for sewing machines comprising a foot member having a shank and provided with a lower, forwardly extending foot portion, three spaced walls extending upwardly from the rear section of said foot member and defining two vertical recesses, a pivot pin passing through the forward section of said walls, the shank of said foot member being attached to the sewing machine and being mounted on said pivot pin in one of said recesses, a gauge member comprising a generally flat plate provided at its outer end with a downwardly extending, vertical guide wall and mounted for lateral sliding movement on the upper surface of said foot portion and provided on its forward edge with a downwardly and forwardly inclined surface, said gauge member having spaced transverse notches on its upper surface and having a longitudinal opening extending over the major portion of its length through which a sewing machine needle may pass, a complemental upwardly and rearwardly inclined surface at the forward edge of said foot portion which engages the forward edge of the gauge member forming a trackway for the latter, a latch member pivotally mounted in the second recess on said pivot pin, which engages the notches, springs positioned in the first and second recesses to the rear of the pivot pin which urge the forward end of the foot portion upwardly and the forward end of the latch downwardly into engagement with one of the notches in the gauge member to retain the gauge member in an adjusted fixed position.



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**2,647,481**
**FEED MECHANISM FOR SEWING MACHINES**
**Jean Court, Chatelaine-Geneva, Switzerland, assignor to Mefina S. A., Binningen, Switzerland, a corporation of Switzerland**
**Application July 10, 1951, Serial No. 235,963**
**In Switzerland July 17, 1950**
**2 Claims. (Cl. 112—210)**



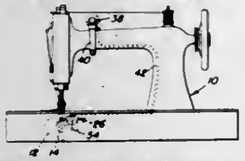
1. An actuating mechanism for the feeding device of a sewing machine comprising a driving element, a rigid lever mounted for rocking movement about a fixed vertical axis, an eccentric mounted for rotation about a vertical axis and driven by said driving element, a transverse lever pivotally connected intermediate its ends to one end of the rigid lever for pivotal movement relative thereto about a vertical axis, a connecting rod connecting the eccentric to one end of the transverse lever for imparting rocking movement to said transverse lever, an arm mounted at one end for adjustment about a fixed vertical axis, a link connecting the other end of the arm to the other end of the transverse lever, means for adjusting the arm about said fixed vertical axis to vary the angular relation between said link and transverse lever to vary the direction and amplitude of rocking movement of the rigid lever imparted thereto by rocking movement of the transverse lever, means transmitting horizontal oscillating movement from the other end of the rigid lever to said feeding device, a second lever mounted for rocking movement about a fixed horizontal axis, said second lever having an input arm and an output arm, means connecting the output arm of the second lever to the input arm thereof to render the output arm rigid with the input arm in a vertical plane but to enable the output arm to oscillate in a horizontal plane relative to the input arm, means for transmitting oscillating movement in a vertical plane to the end of the input arm, and means for transmitting vertical oscillating movement from the end of the output arm to said feeding device.

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**2,647,482**
**BOBBIN SIGNAL**
**Robert C. Campbell, Portsmouth, Va., assignor of one-third to Edward P. Levine, Portsmouth, Va.**
**Application December 20, 1949, Serial No. 134,100**
**9 Claims. (Cl. 112—218)**

1. In a sewing machine including a bobbin race and an oscillatory bobbin holder including a projecting stop finger, an electric switch mounted adjacent said holder and supported directly upon said race, an actuating member provided on the switch and positioned behind and disposed in the

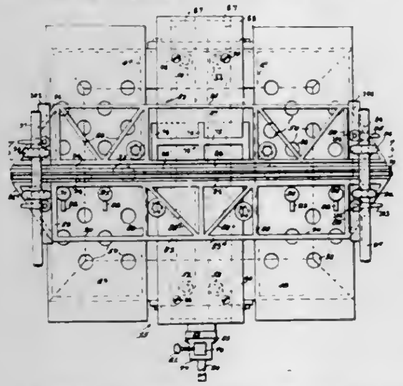
path of movement of said finger to be urged by the finger to a circuit closing position, a bobbin



rotatable in said holder, and means on said bobbin for anchoring an end portion of a thread thereto.

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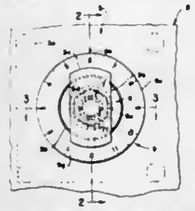
**2,647,483**
**METAL FORMING AND WELDING MACHINE**
**William E. Price, Sixes, Oreg.**
**Application December 28, 1951, Serial No. 263,918**
**13 Claims. (Cl. 113—99)**



1. A metal forming and welding machine comprising a stand including a top portion and depending supporting legs secured to and depending from said top portion, a pair of supporting plates forming a part of said top portion and defining a work supporting section, said plates being spaced from one another to define a cavity in said top portion between adjacent edges of said plates, a movable jaw actuating unit detachably supported in the top portion of the stand and occupying the cavity between said supporting plates including a bottom plate and a top plate, an end plate connecting corresponding ends of the top plate and bottom plate, said top plate being disposed above and spaced from the bottom plate, a bushing mounted in said end plate between said top and bottom plates at one end of the movable jaw actuating unit, a feed screw having a portion journalled in said bushing and extending therefrom to adjacent the opposite end of the movable jaw actuating unit and disposed between the top and bottom plates with the axis of the feed screw disposed below, intermediate and parallel to the inner edges of the supporting plates, a follower threadedly engaging said feed screw and movable longitudinally of said movable jaw actuating unit by rotation of the feed screw, said follower having a bottom portion disposed between the top and bottom plates and a top portion disposed above said top plate for reciprocating movement of said top portion of the follower above the top portion of the stand, means for imparting rotation to the feed screw in either direction for moving the follower toward and away from either end of the movable jaw actuating unit, a stationary clamping jaw detachably mounted on said supporting plates transverse to the direction of movement of the follower, means for detachably and adjustably retaining said stationary jaw on the supporting plates against movement away from the follower, and a movable clamping jaw demountably and slidably supported on said supporting plates and having an opening therein in which the upper portion of the follower is received and having portions engageable by opposite sides of the upper portion of the follower for displacing the movable jaw toward or away from the stationary jaw when the follower is actuated by rotation of the feed screw.

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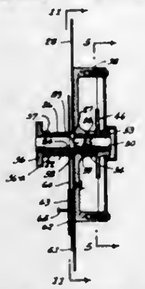
**2,647,484**
**LOCKING DEVICE FOR INDICATING AND CONTROL APPARATUS**
**Theodore M. Mathison, Seattle, Wash., assignor to Boeing Airplane Company, a corporation of Delaware**
**Application June 19, 1951, Serial No. 232,352**
**6 Claims. (Cl. 116—124)**



1. In a shaft locking arrangement for a panel-mounted instrument including a mounting nut for threadedly attaching the instrument to a panel, an instrument shaft rotatably mounted within said mounting nut, said mounting nut having external threads and a longitudinally slotted gripping portion, a locking member threadedly engaging the external threads of said mounting nut for rotation thereon, coacting cone surfaces provided on said gripping portion and said locking member adapted as the result of rotation of the locking member to cause the gripping portion to engage the said shaft, and a dial element fixedly attached to said shaft.

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**2,647,485**
**APPARATUS FOR PROPORTIONING LIQUID MIXTURES**
**Edward M. O'Neill, San Francisco, Calif., assignor to Union Machine Company, San Francisco, Calif., a corporation of California**
**Original application April 24, 1945, Serial No. 590,069. Divided and this application October 30, 1950, Serial No. 197,911**
**4 Claims. (Cl. 116—129)**



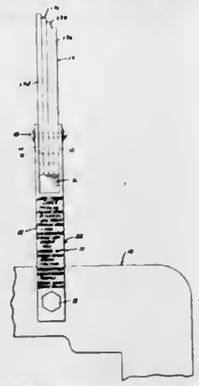
1. In a scale and pointer mechanism: a rectilinearly movable indicator member, a rotatable



shaft, coupling means for moving said member only in accordance with the angular movement of said shaft, a scale member, a pointer co-operating with said scale member and rotatably mounted on said shaft, and means frictionally coupling said pointer for rotation with said shaft whereby said pointer is adjustable with respect to said shaft to alter the scale reading for a given position of said movable member.

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**2,647,486**
**SIGNALING DEVICE FOR LOOMS AND THE LIKE**
**George Frank League, Greenville, S. C.**
**Application October 29, 1951, Serial No. 253,705**
**2 Claims. (Cl. 116—132)**

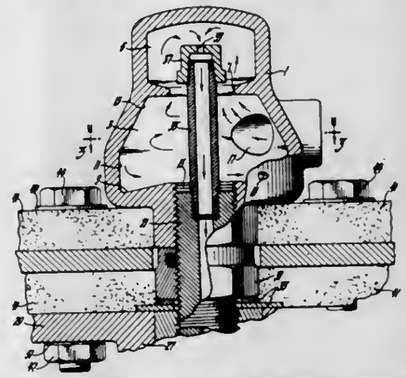


1. An improved signalling device comprising a standard adapted to be mounted on a machine and having a pair of oppositely spaced side walls on the upper end thereof defining a groove, an upwardly extending projection in the bottom of said groove and extending between said side walls, a pivot shaft spaced substantially above said projection and carried by and extending between the spaced side walls, a plurality of substantially rigid flags of varying lengths slidably mounted between said side walls and each being provided with a longitudinally extending slot intermediate the upper and lower ends thereof which is slidably penetrated by the pivot shaft, each of said flags having a plurality of notches in the lower edge thereof each conforming substantially to the shape of said projection in the bottom of the groove in the upper end of said standard, and said flags being of different colors whereby flags may be raised selectively relative to said pivot shaft sufficiently to clear the upper end of said projection and then pivoted about said pivot shaft to assume an inoperative position and any one of said flags may be maintained in the raised position by positioning a selected notch in the lower end of the corresponding flag in engagement with the projection on the bottom of said groove to maintain the flag in the raised position to thereby serve as a signal.

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**2,647,487**
**BELL RINGING APPARATUS**
**Albert L. Macan, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application April 7, 1951, Serial No. 219,791**
**14 Claims. (Cl. 116—151)**

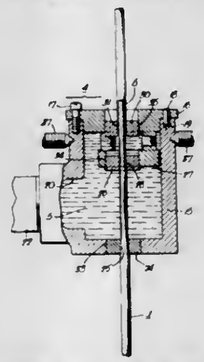
1. In a bell mechanism, a bell, a bell ringing mechanism including a pneumatic bell ringing cylinder within the bell, an air cleaner for separating and for discharging separated moisture and dirt particles from the air supplied to the cylinder, a nipple interconnecting said bell, cylinder and air cleaner, a mounting bracket and



cushion mounting means for resiliently supporting the bell, bell ringing mechanism and air cleaner on the mounting bracket, said air cleaner and bell being secured to said mounting means by said nipple.

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**2,647,488**
**APPARATUS FOR COATING TUBULAR FABRIC AND LIKE NARROW MATERIALS**
**Howard J. Shive, Schwenksville, Pa., assignor to Bentley-Harris Manufacturing Company, Conshohocken, Pa., a corporation of Pennsylvania**
**Application May 31, 1950, Serial No. 165,232**
**3 Claims. (Cl. 118—44)**



1. In apparatus for applying a coating composition to tubular fabric material, means comprising a pair of vertically spaced apart guide rolls to draw the fabric material upward with its axis disposed in a vertical position, an applicator to contain the coating composition positioned intermediate said guide rolls through which the fabric material is drawn, die means mounted in said applicator defining axially aligned circular openings for the passage of the fabric material, said openings being of successively smaller diameter than the normal diameter of the tubular fabric material to reduce the diameter thereof progressively in successive steps to a preselected dimension, means defining a circular outlet opening in said applicator through

which the fabric material is withdrawn, said outlet opening being disposed in coaxial alignment with the die openings and having a predetermined greater diameter than said die openings to control the thickness of the coating composition on the tubular fabric material, and means mounting said applicator with the axes of the die and outlet openings thereof disposed coincident with the axis of the fabric material passing over said guide rolls.

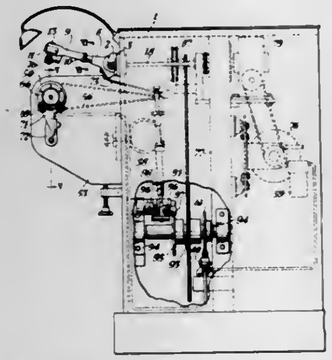
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2,647,489

## MACHINE FOR APPLYING PRECIOUS METAL DECORATIVE BANDS TO GLASS TUMBLERS

George E. Ryckman, Edgewood, Pa., assignor to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania

Application September 19, 1951, Serial No. 247,241
10 Claims. (Cl. 118—219)



1. An applicator for applying a band of precious metal solution simultaneously to different annular areas of a rotating article disposed at an angle to each other, comprising a support, a substantially cylindrical drum rotatably mounted on said support, means for applying said solution to the periphery of the drum, a resilient roller rotatably mounted on said support having its periphery divided into different annular areas disposed at an angle to each other for engagement with said areas of said article, and means carried by said support for pressing the roller against the drum tightly enough to flatten the periphery of the roller against the drum so that substantially the full width of the roller periphery will receive precious metal solution from the drum for application to said article.

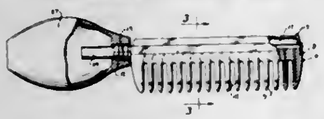
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2,647,490

## COMBINED COMB AND POWDER APPLICATOR

Daniel K. Twiet, Juneau, Territory of Alaska, assignor to Plastichem Corporation, Seattle, Wash., a corporation of Washington

Application July 25, 1950, Serial No. 175,743
2 Claims. (Cl. 119—86)



1. A combination of comb and powder applicator comprising a back member having a manifold chamber therein, teeth extending from the back member and provided with cavities communicating with the manifold chamber and having discharge openings to the atmosphere, a rigid stem extending from the back member, a removable sleeve open at both ends and surrounding a free end portion of the stem, said sleeve extending beyond the free end of the stem, a screen carried by the sleeve and spaced from said free end, said stem providing an inlet from the free end of the stem to the manifold chamber, and a collapsible bulb mounted upon the stem.

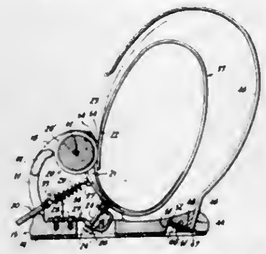
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2,647,491

## COPYHOLDER

John Toggenburger, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application December 14, 1949, Serial No. 132,973
13 Claims. (Cl. 120—32)



1. In a scroll-type copyholder, a sheet curling device embodying a generally cylindroid, transversely extending, open-ended sheet curling pocket, the major diameter of which pocket is not appreciably less than twice the minor diameter, and the pocket disposed with the major diameter slanted rearwardly, the said device having at the lower front side a paper receiving throat leading downwardly into the bottom portion of said pocket from without, and comprising a wall which rises from the throat, has a smooth rear face affording the front side of the pocket for sheet guiding and has a front face affording a back rest for paper emerging out of said throat, and means in front of said wall for pressure contact therewith at the general location of said throat and operable to feed paper upwardly through said throat from said pocket.

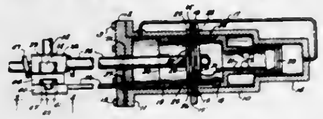
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2,647,492

## HYDRAULIC SERVOMOTOR

Erving A. Puerner, Milwaukee, Wis., assignor to Shallcross Controls, Inc., Milwaukee, Wis., a corporation of Wisconsin

Application August 11, 1948, Serial No. 43,727
22 Claims. (Cl. 121—41)



1. In a servomotor, the combination of a cylinder having a pair of separated ports and formed with an axial bore, a conduit entering one of said cylinder ports for supplying fluid under pressure, a ported sleeve axially slidable within the bore of said cylinder, the ports of the cylinder and of the sleeve cooperating to provide fluid communication to and from the bore of the sleeve, a piston axially slidable within the bore of the sleeve, said piston being formed with spaced passages, therein, and means for moving said sleeve to cause selective communication of said sleeve ports with said piston passages and to thereby cause corresponding movement of the piston by hydraulic pressure.

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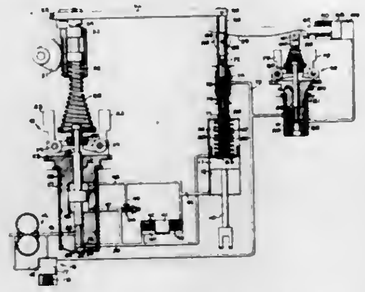


2,647,493

## FLUID ACTUATED GOVERNOR CONTROL

Willard J. Whitehead and George E. Parker, Rockford, Ill., assignors to Woodward Governor Company, Rockford, Ill., a corporation of Illinois

Application April 24, 1952, Serial No. 284,022
4 Claims. (Cl. 121—42)



1. Mechanism of the character described having, in combination, a cylinder, a piston reciprocable therein, means normally biasing said piston in one direction, speed responsive means including a fluid control valve regulating the admission of pressure fluid to one end of said piston to move the latter in the opposite direction against said biasing means, a hollow tube projecting axially from the other side of said piston and movable therewith, said tube having a port therein, a source of fluid under pressure, means defining a passage providing continuous communication between said source and the interior of said tube outwardly beyond said port, a plunger slidable in said tube and cooperating with said port to form a valve, means normally biasing said valve in a direction to block the escape of said fluid outwardly through said port, a stop movable into and out of an active position in the path of said plunger and adapted when in such position to hold the plunger in a position to uncover said port when said piston moves beyond a predetermined position under the control of said speed responsive means, and means for moving said stop into and out of said active position in response to variations in a secondary condition.

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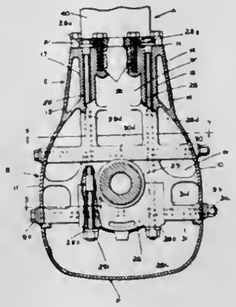
2,647,494

## INTERNAL-COMBUSTION ENGINE CASING CONSTRUCTION

Marsden Ware, Huntington Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application April 19, 1949, Serial No. 88,246
1 Claim. (Cl. 121—194)

In an engine, an elongated crankcase comprising a body portion and an upward extension terminating in a flat cylinder flange receiving surface, said body portion and extension having transversely spaced side walls respectively, the side walls of the extension being upward continuations of the side walls of the body, a plurality of parallel webs disposed transversely of the crankcase and rigidly connecting the side walls of both body and extension, each web having a recess in its lower edge to receive a bearing block and having two parallel vertically disposed passages extending therethrough from said recess to said cylinder flange receiving surface, each web having also a plurality of horizontally disposed passages therein, two such passages extending through each side wall and adjacent portion of each web to the bearing block recess formed in that web, and each such horizontal passage on one side of said recess being aligned with one on the other side of the recess,



and said pairs of aligned passages being parallel to and on opposite sides of, a plane which includes the axes of the vertically extending passages of the same web, a bearing block in each such recess, each block having two horizontal passages therethrough which register, respectively, with the aforementioned aligned horizontal passages in the web, and two vertical passages which are aligned with and form continuations of the vertical passages in the web, and tension rods disposed within the aligned passages of bearing blocks and webs and maintaining the blocks and webs in compression.

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2,647,495

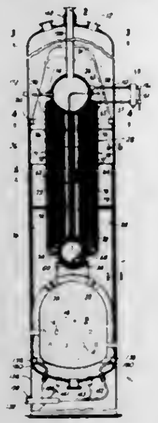
## VAPOR GENERATOR

William T. Moore, Elmhurst, Ill., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application June 2, 1949, Serial No. 96,731
5 Claims. (Cl. 122—333)

1. In fluid heat exchange apparatus, a metallic pressure vessel consisting of an upright cylindrical shell of large volume, a vapor generator including upper and lower drums and connecting banks of vapor generating tubes disposed as a unit within the shell and pendently supported from the upper part of the shell, a row of large diameter downcomer tubes disposed between said banks of tubes and directly connecting said upper and lower drums, a high pressure combustion chamber within the shell, baffles directing high temperature gases from the combustion chamber over said banks of tubes and to a gas outlet at the opposite part of the shell, tubular means through which the vapor generator is supplied with a liquid for circulation therethrough and the development of a vapor under pressure, a superheater including a row of closely spaced tubes disposed closely adjacent to and distributed in circular arrangement around the inner surface of the shell, looped tubular means connecting the vapor space of the upper drum with

the upper ends of the superheater tubes, and a superheater outlet header secured to the shell



and connected with the lower ends of the superheater tubes.

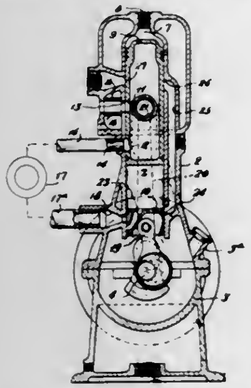
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**2,647,496**

## TWO-CYCLE INTERNAL-COMBUSTION ENGINE HAVING SPECIAL COOLING MEANS THEREIN

**Lee R. Carpenter, Cleveland, Ohio**

**Application April 10, 1951, Serial No. 220,258**
**2 Claims. (Cl. 123—41.39)**



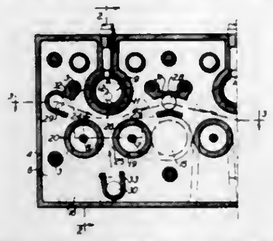
1. In a combustion engine, an engine block having a cylinder provided therein, a hollow piston closed at both ends slidably received in said cylinder, said piston having longitudinally spaced inlet and exhaust ports provided in a side wall thereof, said block having inlet and exhaust ports therein for registration with said piston ports at and adjacent the position of said piston when said cylinder is to be fired, means connecting to said inlet and exhaust ports in said block for drawing air through said piston to cool same, means connecting said exhaust port in said block to a carburetor for the engine, an auxiliary piston in said cylinder adjacent the inner end of said piston, a crankshaft journaled in said engine block, and means connecting said piston and said auxiliary piston to different portions of said crankshaft.

**2,647,497**

## COOLED CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES

**Eugen Stump, Stuttgart-Unterturkheim, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany**

**Application August 15, 1950, Serial No. 179,407**
**In Germany August 15, 1949**
**25 Claims. (Cl. 123—41.79)**



1. A liquid cooled internal combustion engine having a cylinder block and a cylinder head containing a pre-combustion chamber and valve chambers extending in the cooling jacket thereof, the cooling liquid jackets of the cylinder block and of the cylinder head being connected by channels, means being provided in the cylinder head cooling jacket above said channels adapted to direct cooling liquid streams from said channels towards the hottest spots of the cylinder head, the means for directing the cooling liquid streams consisting in deflection walls, the deflection walls being provided thus positioned so that said streams of liquid are directed from outer zones radially inwards at least approximately towards a common central point of intersection between the chambers.

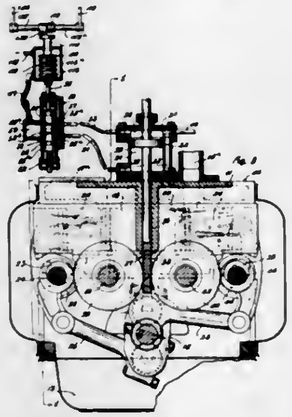
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**2,647,498**

## INTERNAL-COMBUSTION ENGINE

**Henri J. Hickey, Norwalk, Ohio**

**Application June 17, 1947, Serial No. 755,166**
**9 Claims. (Cl. 123—48)**



1. In an internal combustion engine, a main cylinder having open ends and a combustion space in an intermediate portion thereof, a crankshaft rotatable about an axis extending transversely to the axis of said main cylinder and offset therefrom, a pair of opposed power pistons reciprocable in said cylinder, fulcrums located adjacent said open ends, power transmitting linkage connecting said power pistons with said crankshaft including levers adapted to oscillate on said fulcrums, said fulcrums being arcuately shiftable for altering the travel of said power pistons in said main cylinder so as to vary the compression ratio of the engine, means for imparting such arcuate shifting to said fulcrums including a pair of gear members having toothed portions spaced apart, an auxiliary cylinder having an adjusting piston movable therein, means for supplying pressure fluid to said auxiliary cylinder, and a rack connected with said adjusting piston to be actuated thereby and having meshing engagement with the spaced apart toothed portions of said gear members.



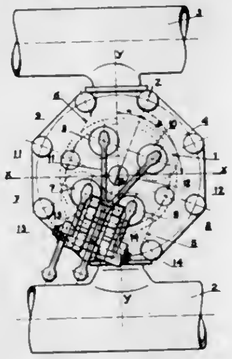
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**2,647,499**

## MULTIPLE VALVE CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES

**Gustav Pielstick, Saint Germain en Laye, France**

**Application July 23, 1949, Serial No. 106,362**
**In France August 2, 1948**
**2 Claims. (Cl. 123—90)**



1. In an internal combustion engine of the multicylinder type having an admission pipe and an exhaust pipe located on the two opposed sides of the engine, a cylinder head, and intake and an exhaust manifolds associated therewith and located on either side of said head, at least one pair of adjacent admission valves and one pair of adjacent exhaust valves controlling the passage towards and through said manifolds, an actuating linkage for said valves, and usual tappet means for the control of said linkage located in the angular space defined by one of said pipes, the corresponding manifold and the adjacent wall of the cylinder, the lines connecting respectively the axes of two adjacent admission or exhaust valves forming with the axis of one of said pipes an acute angle, permitting thereby said tappets of being directly actuated by the usual camshaft of the engine and of directly acting upon the respective linkage, without interfering either with the manifolds, or with said pipes.

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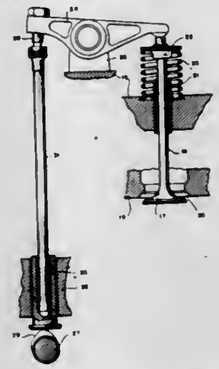
**2,647,500**

## VALVE GEAR FOR DIESEL ENGINES

**Heinrich Lang, Munich, Germany**

**Application August 10, 1951, Serial No. 241,259**
**In Germany October 28, 1950**
**3 Claims. (Cl. 123—90)**

2. In a cam-operated valve gear for diesel engines with high compression which include an engine cylinder, a cylinder head topping the same, at least one admission valve and at least one exhaust valve mounted in the head to open against the cylinder bore, the improvement consisting therein that the acting surface of each cam effecting the lift of one valve includes an essentially cylindrical portion to keep the initial lift of the admission valve or valves ahead of top dead center and the lift of the exhaust valve or valves before final closing beyond top dead center



transitorily constant while the piston is in and near top dead center between the exhaust stroke and the following inlet stroke, in order to avoid contact between the piston and the lifted valves when clearance between the top of the piston and the bottom of the head is less than the lift of said valves from said bottom.

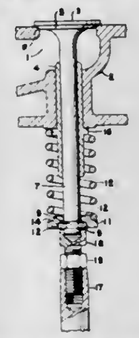
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**2,647,501**

## VALVE ASSEMBLY

**George R. Rich, Battle Creek, Mich.; Dora M. Rich, executrix of said George R. Rich, deceased, assignor to Rich Manufacturing Corporation, Battle Creek, Mich., a corporation of Michigan**

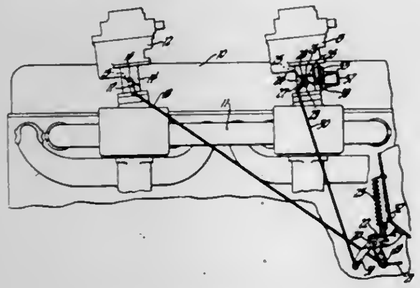
**Application September 22, 1947, Serial No. 775,399**
**1 Claim. (Cl. 123—90)**



A valve assembly comprising a poppet valve with head and stem, said stem having an external annular groove adjacent its end remote from said head, a substantially flat faced washer means closely but freely and rotatably fitting said groove, said washer means being slightly thinner than the width of said groove to facilitate free rotation of said valve while positively controlling its endwise movement, a freely reciprocable spring retainer cup in which said washers freely fit, said retainer cup having a central opening of slightly larger diameter than and freely clearing the major diameter of said

stem and having a coaxial counterbore adapted to freely receive said washer means, a valve spring mounted on said valve stem and occupying part of the space extending from said retainer cup toward said valve head and adapted to force the bottom of the counterbore of said retainer cup against said washer means and said washer means against the bottom of said groove for seating said valve, and valve opening means adapted to solely engage said washer means on the side of same opposite to that in contact with said valve spring retainer and being the sole means for actuating said valve, said valve opening means first moving said washer from contact with the bottom of said groove and upon further movement forcing the washer against the upper part of said groove to lift said valve, said valve then being free for longitudinal vibration and rotation with respect to said washer.

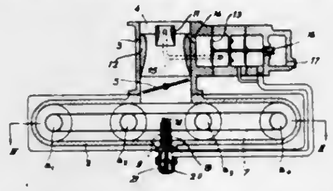
**2,647,502**
**COMPOUND CARBURETION SYSTEM**
**Adolph F. Braun, Davison, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application July 28, 1949, Serial No. 107,277**
**8 Claims. (Cl. 123—127)**



1. In an internal combustion engine which includes a cylinder, a primary carburetor through which a combustible mixture may be supplied to the cylinder, a throttle valve in the primary carburetor, means through which the throttle valve of the primary carburetor may be opened, a secondary carburetor through which a combustible mixture may be supplied to the cylinder, a throttle valve in the secondary carburetor, means through which the throttle valve of the secondary carburetor may be opened, a member of variable effective length which is interposed between the first specified means and the second specified means and abuts against the first specified means after the throttle valve of the primary carburetor has been partly opened, and a pressure responsive device to which the suction of the engine is communicated for increasing the effective length of the member and opening the throttle valve of the secondary carburetor after the throttle valve of the primary carburetor has been partly opened.

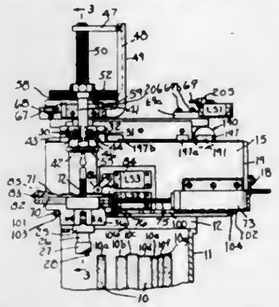
**2,647,503**
**ADMISSION MANIFOLD FOR INTERNAL-COMBUSTION ENGINES**
**Roger H. Tissier, Paris, France**
**Application September 10, 1951, Serial No. 245,869**
**In France September 16, 1950**
**5 Claims. (Cl. 123—141)**

1. The combination with internal combustion engine cylinders provided with fuel mixture intake passages, of a fluid-tight enclosure including an inlet passage, and a permeable wall inside said enclosure, dividing same into an inner chamber



bounded by said permeable wall and an outer chamber around same, said intake passages opening into said inner chamber and said inlet passage opening into said outer chamber.

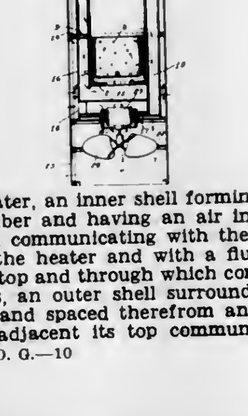
**2,647,504**
**GRINDING WHEEL TRUING APPARATUS**
**Oiva E. Hill, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**
**Application September 8, 1950, Serial No. 183,775**
**10 Claims. (Cl. 125—11)**



1. In a grinding wheel truing apparatus having a frame, a longitudinally movable slide on said frame, a transversely movable hollow sleeve on said slide, a truing tool holder therein, a truing tool mounted thereon, a feeding mechanism operatively connected between the holder and the sleeve to adjust said holder relative to said sleeve, means including a longitudinally movable cam on said slide and a follower on said sleeve which engages said cam successively to position the truing tool in a plurality of predetermined positions, means including a pair of independent fluid motors one of which is operatively connected to traverse said slide and the other is operatively connected to traverse said cam, an electrically controlled valve means operatively connected to control said motors so as to alternately and successively traverse said slide longitudinally and said cam longitudinally relative to said slide intermittently to true a plurality of different diameters on a grinding wheel.

**2,647,505**
**THERMOELECTRIC SPACE HEATER**
**Frederick J. Bordt, Averill Park, N. Y., and Andrew J. Shine, Xenia, Ohio, assignors to the United States of America as represented by the Secretary of the Army**
**Application June 23, 1952, Serial No. 295,026**
**7 Claims. (Cl. 126—67)**

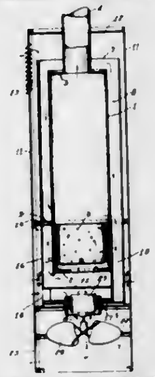
5. In a thermoelectric heater, an upright support including at least three circumferentially spaced legs, a substantially horizontal polygonal flange secured to the legs a substantial distance above the lower ends of the same, at least three separate upright thermoelectric generator panels having their lower ends resting upon the polygonal flange and having opposed substantially contacting side edges and defining a substantially continuous upright polygonal wall forming a substantially vertical passage within the support, a substantially horizontal polygonal locking ring



removably mounted upon the upper ends of the panels and serving to prevent separation of said substantially contacting side edges, the top of the support extending above said locking ring, heat transfer means removably mounted upon the top of the support and having its weight borne by the support so that the generator panels are relieved from excess strain, and burner means arranged below said substantially horizontal flange for supplying hot combustion products to the passage defined by the panels.

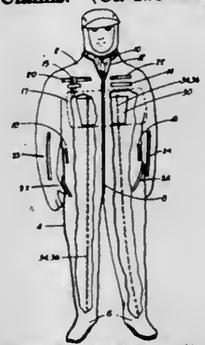


**2,647,506**
**FORCED AIR SPACE HEATER WITH AIR-COOLED MOTOR**
**Sidney J. Heiman, St. Louis, Mo.**
**Application January 10, 1950, Serial No. 137,810**
**1 Claim. (Cl. 126—110)**



In a heater, an inner shell forming a combustion chamber and having an air inlet adjacent its bottom communicating with the atmosphere adjacent the heater and with a flue outlet adjacent its top and through which combustion gas discharges, an outer shell surrounding said inner shell and spaced therefrom and having an air inlet adjacent its top communicating with the atmosphere adjacent the heater and communicating with an outlet adjacent its bottom, a fan communicating with the space between said shells for directing the flow of air downwardly therebetween to become heated as it passes between said shells and thence discharge into the atmosphere from adjacent the heater bottom, a motor positioned in said heater above said fan and drivingly connected to the latter, and an air chamber housing in said heater and sealed from said heated air passage and enclosing said motor and having an inlet thereinto communicating with the atmosphere exteriorly of said housing and communicating with an outlet leading exteriorly from said housing and communicating with said fan whereby air is entrained by said fan to travel downwardly substantially separately of said heated air and to envelop and cool said motor.

**2,647,507**
**BUOYANT, REGULATED-TEMPERATURE WEATHER-SUIT**
**Hubert K. Shaw, Boston, Mass.**
**Application October 31, 1945, Serial No. 625,700**
**In Canada October 2, 1944**
**2 Claims. (Cl. 126—204)**

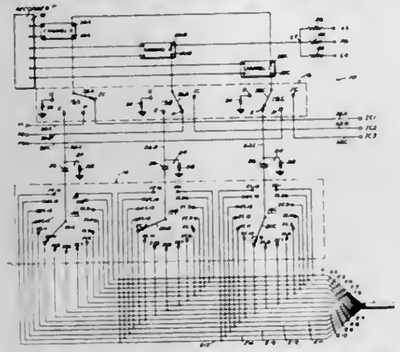


1. In a one-piece weather-suit constructed of waterproof materials and having jacket-, leg-, and foot-portions, said jacket having an entrance portion at the top, the combination of a chemical heat-unit, a pocket attached to the front of the jacket portion of the weather-suit, said pocket adapted to contain the entire heat-unit assembly when not in use, a relatively thick and firm cord, one end of which is joined to the upper portion of the weather-suit adjacent to the entrance opening of the weather-suit, said cord being sufficiently long to extend to the lowermost portions of the leg-portions, the chemical heat-unit being attached to the other end of the cord, thereby permitting the transfer of the heat-unit to the interior of the foot-portions and leg-portions.

**2,647,508**
**ESOPHAGEAL SWITCH FOR ELECTRO-CARDIOGRAPH APPARATUS**
**Milton H. Pelavin, Brooklyn, N. Y., assignor to Technicon Cardiograph Corporation, New York, N. Y., a corporation of New York**
**Application May 6, 1950, Serial No. 160,511**
**10 Claims. (Cl. 128—2.06)**

1. In an electrocardiograph, a channel for amplifying voltages transmitted thereto from the subject's body, electrical terminal means in circuit with the input to said channel for connection to an esophageal lead positionable in the subject's esophagus for investigating a condition of the subject's heart as indicated by voltages repre-

sentative of such condition, and filter means interposed in the circuit between said electrical terminal means and the input to said channel for substantially attenuating incidental body



voltages of lower frequency than said representative voltages to prevent the transmission of said incidental lower frequency body voltages through the esophageal lead to said channel.

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**2,647,509**
**MASSAGING ROLLER**
**Aurele A. Studler, Glendale, Calif.**
**Application August 5, 1950, Serial No. 177,887**
**6 Claims. (Cl. 128—24.3)**



1. In a massage roller, the combination of a tubular body having a chamber within the same, and having a covering on its outer side for rolling and massaging one's body, a spindle coaxial with said tubular body, an insulating core for a heating coil of substantially tubular form, having a bore, surrounding the tubular spindle and of larger diameter than the same, so as to form an air space between the spindle and the wall of said core, a heating coil carried on the exterior of the said core, lead-in conductors connected respectively with the ends of said coil, and spiders located respectively adjacent each end of the core, having an opening therein respectively, the edges whereof fit closely to the outer diameter of the spindle, said spiders also having means for engaging the core capable of holding the same centered coaxially on the spindle, and having considerably less surface area than the area of the bore of the core so as to permit heated air within the core to pass out towards the ends of the chamber within the roller.

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**2,647,510**
**COMPOSITION TENDON SUPPORT**
**Edwin B. Topmiller, Nashville, Tenn., assignor of nine per cent to Alma K. Topmiller, ten per cent to Edwin B. Topmiller, Jr., ten per cent to Dorothy Topmiller, ten per cent to Kathryn Garrison, and ten per cent to Anna C. Topmiller**
**Application December 13, 1948, Serial No. 65,006**
**3 Claims. (Cl. 128—156)**

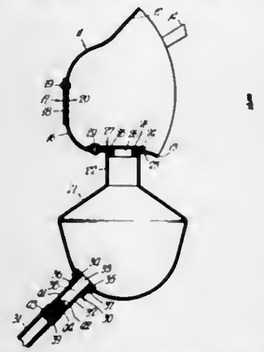
1. In a tendon support an inner layer of a composition comprising glycerine, gelatine and water, a textile layer consisting of a webbing dusted with plaster of Paris, an outer layer of the above named composition, the said composition also impregnating the textile webbing, the proportions of glycerine, gelatine and water in the above



named composition being so selected that it sets to a consistency similar to that of rubber and that the support is capable of expanding and contracting with the limb while supporting the limb so as to relieve pain.

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**2,647,511**
**OXYGEN MASK**
**Edmund Barach, Ridgefield, Conn., assignor to O. E. M. Corporation, a corporation of Delaware**
**Application November 23, 1951, Serial No. 257,865**
**3 Claims. (Cl. 128—205)**



1. An oxygen mask comprising a face piece, a deformable reservoir connected to said face piece and in communication therewith, said reservoir having an inlet port, a substantially tubular inlet member having an annular lateral flange at one end positioned in the inlet port of said reservoir and resting on the inner periphery thereof, a collar encompassing a portion of said tubular member outside said reservoir to clamp the periphery of said inlet port against said flange, said inlet member having a longitudinal bore therethrough in communication at its affixed end with said reservoir and of reduced diameter at the outer end thereof, said bore having an air inlet opening leading thereinto at right angles thereto adjacent the inner end of the reduced diameter portion thereof.

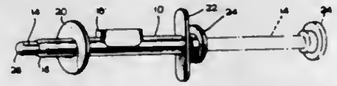
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**2,647,512**
**MEDICAMENT APPLICATOR**
**John R. Johnson, Dunn, N. C.**
**Application September 17, 1951, Serial No. 246,885**
**1 Claim. (Cl. 128—264)**

An applicator for introducing a medicament into a body cavity comprising a main portion having a cylindrical passage therein opening through at least one end of the main portion,



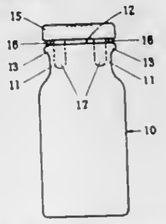
the said one end of the main portion being outwardly bevelled about the passage opening, a cylindrical plunger mounted for reciprocating operation in the passage, one end of the plunger being rounded, the arrangement being such that the applicator may be readily inserted into a body cavity when the main portion and plunger are arranged so that the rounded end of the plunger coincides with or extends beyond the bevelled end of the main portion, cap means on the plunger for moving the plunger to retract the said rounded end into the passage after the main portion is inserted in the body cavity, a medicament loading aperture in the wall of the main portion communicating with the passage at a distance from the bevelled end of the main



portion sufficient to permit loading of the applicator when the plunger is retracted after the main portion has been inserted into the body cavity and remains there, and a wall means extending about the loading aperture means to retain medicament in a well formed by the wall until the plunger is retracted after the applicator is inserted in a body cavity, the plunger being of equal diameter throughout its length and the passage similarly being of equal diameter throughout its length so that the plunger completely fills the passage behind said rounded end of the plunger in all stages of insertion of the plunger beyond said loading aperture, the diameters of the plunger and passage being substantially the same to provide a close sliding fit.

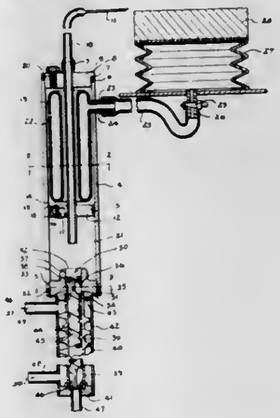
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**2,647,513**
**LYOPHILIZATION CONTAINER**
**Alan D. Holmes, Oak Park, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois**
**Application March 28, 1951, Serial No. 217,949**
**4 Claims. (Cl. 128—272)**



1. A container comprising a receptacle having a neck-portion provided with an opening bounded by a flange, a cover for said opening, spacing means disposed between said cover and flange to provide an air passage therebetween, said spacing means being collapsible to permit closing of said opening when said cover is pressed toward said flange, and means projecting from said cover to align said cover over said opening, said aligning means extending at right angles from said cover into said opening and neck-portion, said aligning means providing a channel within said neck-portion for the free passage of material into and from said receptacle, said channel communicating with at least part of said opening whereby said channel is in open communication with said air passage when said cover is spaced with respect to said flange.

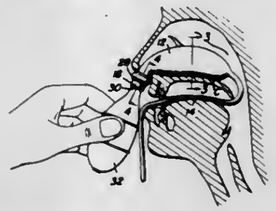
**2,647,514**
**APPARATUS FOR COLLECTING AND PRESERVING BLOOD**
**Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application June 29, 1951, Serial No. 234,239**
**8 Claims. (Cl. 128—275)**



1. In an apparatus of the character described, the combination of a casing having two separate fluid chambers therein, a tubular member having a downwardly directed portion for directing the flow of a first fluid into one of said chambers, sealed expandable and collapsible means in the other of said chambers adapted to lie within a second fluid of different characteristics to be placed in said other chamber, and means intermediate said chambers having a passageway therein for directing the flow of said second fluid in said other chamber, as effected by the expansion or contraction of said expandable and collapsible means, to an outer side wall of said tubular member to cause the second fluid to flow downwardly of said outer side wall and intermingle and mix with the first-mentioned fluid as the first fluid flows outwardly of said tubular member and into the lower part of said one chamber.

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**2,647,515**
**INFLATABLE DAM FOR ARRESTING BLEEDING IN THE INTERNAL BODY CAVITIES**
**Robert K. Pollock, Mansfield, and Joseph M. Gapstur, Ashland, Ohio, assignors to The Professional Supply Inc., a corporation of Ohio**
**Application August 20, 1951, Serial No. 242,624**
**7 Claims. (Cl. 128—325)**

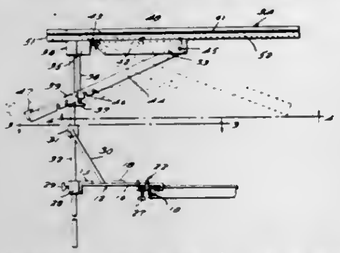


1. As a new article of manufacture, an inflatable dam for arresting bleeding in the internal body cavities, said dam comprising an elongated expansible and contractible tube having a re-

duced extension at one end considerably longer than the tube and including a closed outer extremity, means detachably engaging said extension for guiding the dam through a cavity, and means carried by the end of said tube remote from said extension for directing air into the tube for inflating the tube.

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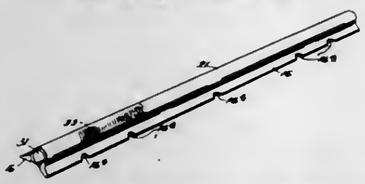
**2,647,516**
**BEDSIDE TRAY-TABLE SUPPORT**
**Jesse L. Whitaker, Great Falls, Mont.**
**Application June 15, 1951, Serial No. 231,845**
**5 Claims. (Cl. 128—375)**



1. A support structure of the character set forth comprising a base, a pair of vertically spaced guides carried thereby, a post slidably engaged in said guides, means for securing the post in a guide, a top unit including a rigid member, means for mounting said rigid member on the top end of said post, a flat body providing a tray table, means pivotally coupling said body to the rigid member for swinging from a horizontal position to a tilted position, and means for adjustably holding the body in one of said positions, said rigid member comprising a bar, the said means pivotally coupling the flat body to the rigid member including a frame having one side adjacent to and parallel with the bar and hinges coupling the said side of the frame to the bar, and the said means for adjustably holding the flat body in one of the said positions comprising a second bar below and parallel with the rigid member, a pair of arms each pivoted at one end to a side of said frame and extending across said second bar, a connecting member between the other ends of said arms and means for adjustably coupling the arms with said second bar.

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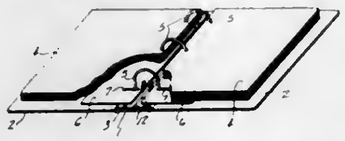
**2,647,517**
**PEN OR PENCIL HOLDER**
**Charles R. Bilbrey, Chicago, Ill.**
**Application June 22, 1949, Serial No. 100,673**
**3 Claims. (Cl. 129—1)**



3. In a writing instrument holder adapted to be removably carried in a snap-ring notebook, an elongated body member having a longitudinally-extending passage therein and an open end for receiving a writing instrument, a spring seat in said passage and spaced from the open end of said body member, said body member providing interiorly thereof an elongated recess in open communication with said passage and terminating at one end a spaced distance from said spring seat and terminating at the other end a relatively long distance from the open end of said body member, an elongated coil spring within said passage and engaging at one end said spring seat while the other end of the spring is free to move axially within said passage, a stop member slidably mounted within said passage and having a laterally-extending portion slidably received within said recess, said stop member providing a seat for the free end of said spring and having a centrally-aligned opening therein adapted to receive the reduced end of a writing instrument, and a leaf spring disposed longitudinally of said body member and being secured thereto and equipped with a laterally-extending closure portion adapted to extend over the open end of said body member, said leaf spring being biased to normally hold said closure portion in closure position and being manually movable to open the end of said body member, said recess being related to said coil spring so that the stop member holds the spring in slightly compressed condition when the laterally-extending portion of the stop member engages the terminal end of the recess nearest the open end of said body member.

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**2,647,518**
**BINDER FOLLOWER**
**Conrad J. Panfil, Sr., Milwaukee, Wis., assignor to The Heinn Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application April 4, 1947, Serial No. 739,383**
**4 Claims. (Cl. 129—4)**



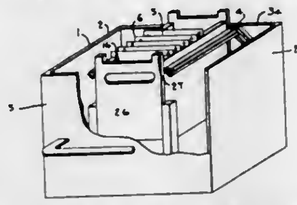
3. In a binder of the class described having a pair of laterally separable ring supporting strips and ring members mounted thereon with their upper ends curved inwardly for paper binding thereon when said strips are closed together in edge to edge engagement, a follower plate for each strip having slots at its inner edge adapted to receive the ring members on the corresponding strip and prevent substantial longitudinal movement between the plate and the binder, a plurality of arms rigidly secured to each said plate at its inner edge and having their outer ends disposed at an upward angle to the plane of the plate, follower posts extending upwardly from each said strip and spaced corresponding to said arms, and a pivotal bearing connection between each arm and the corresponding follower post disposed with its axis above and substantially parallel to the inner edge of the strip, whereby separation of the strips in opening the binder for the addition or subtraction of paper effects a corresponding separation of the follower posts and plates.

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**2,647,519**
**SELECTOR DEVICE FOR CARD INDEXES**
**Rudolf Brinkmann to Broxten, Frankfurt am Main, Germany**
**Application September 2, 1949, Serial No. 113,805**
**In Germany October 1, 1948**
**2 Claims. (Cl. 129—16.1)**

1. In a card selector, a rectangular casing for the accommodation of the cards, said casing having a front and a rear wall, a bottom, and two longer side walls than said front and rear walls, and being open at the top, a pair of parallel rods in the upper portion of the casing to support said cards in an adjacent vertical suspension, said carrier rods extending horizontally between said front and said rear wall and being in loose contact therewith, a pair of parallel push rods horizontally displaceable underneath said carrier rods in the front and rear wall of said casing and in a vertical plane with said carrier rods, the ends of said push rods outwardly projecting from the casing and being connected to form handles, said push rods thereby adapted to be horizontally displaced, spaced parallel arms located between said pairs of carrier and push rods and pivotally connected thereto, selector discs having a plurality of superposed horizontal rows

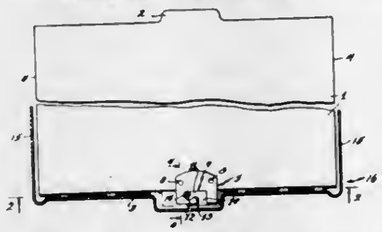




of holes located in the front and the rear wall of said casing and a selector rod to be pushed through said selector discs and said cards to prevent the vertical displacement of the selected cards upon a horizontal displacement of said push rods, the card supporting rods being lowered by the horizontal displacement of the push rods and being restrained from horizontal movement by their contact with the front and rear wall of the casing, guide rails to accommodate the ends of the carrier rods attached to the inner faces of the front and rear wall of the casing, said guide rails being at the upper ends equally spaced to the carrier rods and being outwardly inclined in the downward direction to increase the space therebetween whereby the carrier rods are separated from each other during the downward displacement by the push rods and the non-selected cards are dropped from the carrier rods.

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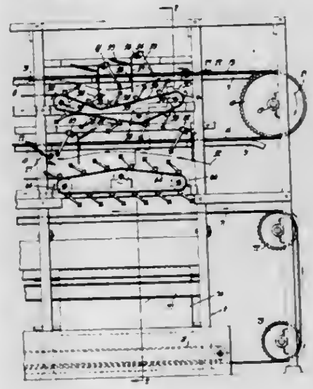
**2,647,520**
**FILE GUIDE**
**Eva L. Lee, Hamilton, Ohio**
**Application May 12, 1949, Serial No. 92,785**
**3 Claims. (Cl. 129—16.7)**



1. In a file drawer of the type described having side walls, a bottom, a longitudinal channel in the bottom, and a rod extending fore and aft in the channel in the bottom of the drawer, the improvement comprising a flexible rectangular guide adapted to be positioned generally upright in the drawer and extending transversely thereof between the side walls, a tab of substantially rigid wear-resistant material secured to the lower edge of the guide and positioned to extend into the channel, said tab having therein a generally inverted L-shaped slot adapted to receive the rod, the slot being positioned in the portion of the tab extending beneath the guide sheet, said slot having a downwardly opening vertical portion and a closed horizontal portion extending therefrom and communicating therewith, the rod being normally positioned in the horizontal portion of said slot, the length of the horizontal portion of the slot being greater than the space between the vertical edge of the guide sheet toward which the horizontal portion of the slot extends and the side of the drawer, the width of the tab being less than the width of the channel by at least the length of the horizontal portion of the slot to permit transverse movement of the guide in the drawer to align the vertical portion of the slot with the rod, and the position of said vertical portion of the slot with respect to the vertical edges of the guide sheet and the position of the rod, and the width of the guide sheet with respect to the width of the drawer, being such that in all positions of the guide in a flat condition normal to the side walls said vertical portion of the slot will be out of registration with the rod.

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**2,647,521**
**HOP PICKING MACHINE**
**George E. Miller, Sacramento, Calif., assignor to E. Clemens Horst Company, San Francisco, Calif., a corporation of New Jersey**
**Application March 16, 1949, Serial No. 81,749**
**3 Claims. (Cl. 130—30)**



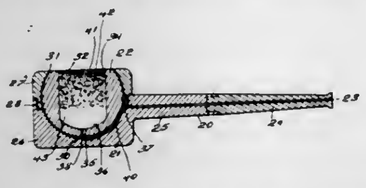
1. A hop picking machine comprising a mounting, a flexible picker element on said mounting, said element including a rubber member having a rectangular base at one end and a cylindrical shoulder portion at the other end and including a notched metal disc secured against said shoulder.

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**2,647,522**
**SMOKING PIPE**
**Edward F. Schneider, Philadelphia, Pa.**
**Application March 6, 1950, Serial No. 147,855**
**3 Claims. (Cl. 131—178)**

1. In a smoking pipe, a bowl housing, a stem connected to the housing and a bowl angularly movably mounted in the housing, the housing and stem being invertible with respect to the bowl, the bowl having an open top and a bottom opening, there being a passage from the bottom opening of the bowl to the interior of the

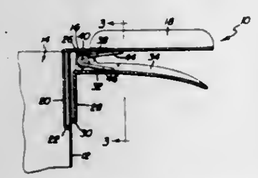
stem in upright position of the housing and there being a passage from the top of the bowl to the



interior of the stem in the inverted position of the housing.

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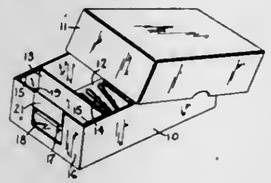
**2,647,523**
**ASH TRAY ADAPTER**
**Ferdinand A. Vollender, Jr., Guttenberg, N. J.**
**Application March 16, 1950, Serial No. 149,916**
**3 Claims. (Cl. 131—257)**



2. An ash tray adapter comprising a cigarette receiving trough having a leg depending integrally from one end thereof, ears depending from the sides of said trough adjacent said one end thereof, a lever disposed below and substantially parallel to said tray, ears rising from the sides of said lever adjacent one end thereof and being in juxtaposition with said trough ears, a pivot pin extending through said juxtaposed ears and securing said lever and said trough to one another, a leg integrally depending from said one end of said lever, and resilient means on said pivot pin adapted to engage the trough and lever to urge said lever leg toward said trough leg for clamping the adapter to an ash tray.

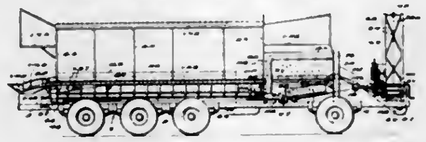
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**2,647,524**
**BOBBY PIN CONTAINER**
**John E. Heavens, Jr., Seymour, Conn., assignor to The Star Pin Company, Derby, Conn., a corporation of Connecticut**
**Application May 19, 1950, Serial No. 163,003**
**13 Claims. (Cl. 132—79)**



1. A bobby pin box comprising a body and a cover, said box body having an aperture-defining wall structure thickened throughout a portion thereof to provide a spreading device for spreading the legs of the bobby pins when said cover is removed, said cover in the operative position enclosing said spreading device.

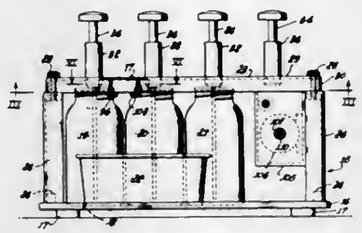
**2,647,525**
**APPARATUS FOR HARVESTING CROPS**
**John Duda, Andrew Duda, Jr., and Ferdinand Duda, Oviedo, Fla., assignors to A. Duda & Sons, Oviedo, Fla., a partnership**
**Application December 11, 1950, Serial No. 200,299**
**15 Claims. (Cl. 134—63)**



1. Celery harvesting apparatus comprising a mobile chassis, power-driven oppositely disposed belt collecting conveyors mounted on said chassis adjacent one end thereof extending laterally outwardly therefrom, said collecting conveyors belts being substantially flat and adapted to have picked celery placed thereon for delivery inwardly to said chassis for discharge, a power-driven endless belt delivery conveyor mounted on said chassis and extending longitudinally thereof having a receiving end portion, said collecting conveyors having inwardly disposed portions located immediately adjacent the receiving end portion of the delivery conveyor to discharge celery directly thereto, said delivery conveyor belt being substantially flat and adapted to move celery longitudinally of said chassis, workmen's packing stations including packing platforms mounted on said chassis and disposed adjacent said delivery conveyor and extending laterally thereof along the run thereof and to which the delivery conveyor delivers celery from the collecting conveyors for packing into containers at the packing stations, washer means positioned over the delivery conveyor intermediate said packing stations and said collecting conveyors for washing the celery as it is carried by said delivery conveyor toward said packing stations, said washer means including washing liquid projectors arranged adjacent of said delivery conveyor for directing washer liquid against celery carried thereby and a receiver for collecting liquid from beneath said delivery conveyor for re-use in washing celery.

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**2,647,526**
**APPARATUS FOR CLEANING OPEN ENDED HOLLOW TUBULAR ELEMENTS**
**Philip M. Casady and Richard R. Casady, Los Angeles, Calif.**
**Application July 17, 1950, Serial No. 174,224**
**7 Claims. (Cl. 134—94)**

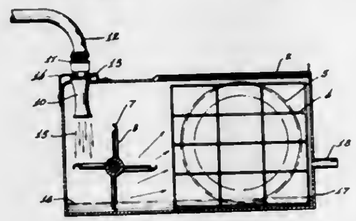


5. In an apparatus for cleaning open ended, hollow, tubular elements, including a plurality of sources of supply of cleaning fluid substantially at atmospheric pressure, the combination of: a plurality of pump means, each operably connected to a respective cleaning fluid supply and arranged to be sequentially manually actuated; a conduit connected to each pump means for conducting pumped fluid therefrom; and means for discharging cleaning fluid from said conduits into a hollow tubular element to be cleaned, said discharge means including an outlet housing at one side of the pump means having a plurality of passageways, each connected to a conduit; and a single duct intersecting said passageways, said duct being in communication with a single discharge port means; said discharge means having means arranged to guide and position an end of a hollow tubular element into sealed relationship therewith; and check valve means at each intersection of the passageways with the duct.



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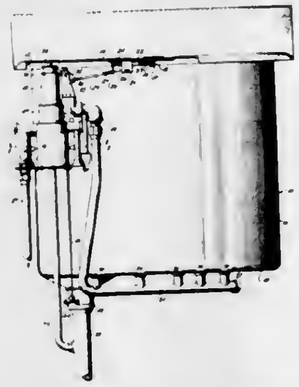
**2,647,527**
**DISHWASHING MACHINE**
**William Butler, Pittsburgh, Pa.**
**Application October 2, 1952, Serial No. 312,699**
**4 Claims. (Cl. 134—188)**



1. A dish washing machine comprising a housing, a paddle wheel rotatably mounted in said housing and having blades adapted to scoop up water in the bottom of said housing and spray it on soiled dishes contained therein, and means for directing a spray of water against the blades of said paddle wheel to effect rotation thereof.

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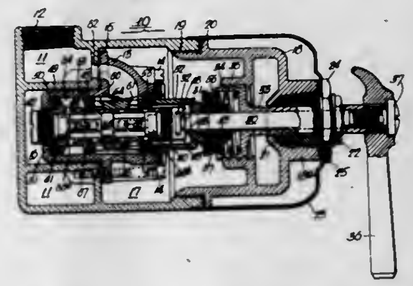
**2,647,528**
**DISHWASHING APPARATUS**
**Otto J. Borngesser, Baltimore, Md., Richard B. Bradshaw, Philadelphia, and Charles C. Smith, Warrington, Pa., assignors to Kaiser Metal Products, Inc., a corporation of California**
**Application June 16, 1947, Serial No. 754,918**
**11 Claims. (Cl. 134—200)**



1. The combination with a dishwashing machine having spray jets for directing the water upon the dishes, of a device for determining the amount of time during which the water flows to said jets, said device comprising a body with an internal cylindrical chamber, having a water inlet and an outlet, said inlet being connectable to a source of water under pressure and said outlet being connectable to said spray jets, valve means including a reciprocating piston within said chamber actuated by and controlling the flow of water from said inlet to said outlet, said piston having means mounted thereon and below the water inlet and outlet forming a liquid-tight seal with the wall of said chamber and means including a capillary tube for by-passing a reduced flow of water from said inlet to the said chamber below said sealing means whereby the action of said piston in moving said valve means to open position is restricted.

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**2,647,529**
**MIXING VALVE**
**Charles G. Wall, Philadelphia, Pa.**
**Application November 3, 1948, Serial No. 58,113**
**7 Claims. (Cl. 137—98)**



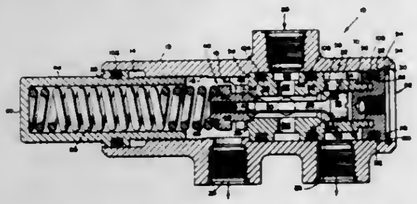
1. A fluid mixing valve assembly having a housing, a cold fluid passage in said housing, a hot fluid passage in said housing, a mixing chamber in said housing in communication with said cold and hot fluid passages, a hot fluid valve in said housing for controlling communication between the hot fluid passage and the mixing chamber, a primary cold fluid valve in the housing for controlling communication between the cold fluid passage and the mixing chamber, a pair of secondary cold fluid valve ports between the cold water passage and the mixing chamber, said secondary cold fluid valve ports being in parallel with each other and in series with the primary cold fluid valve, single manually controllable means for opening and closing both the primary cold fluid valve and one of said secondary valve ports, and automatic differential pressure control means responsive to the pressures of said hot and cold fluids as said fluids flow through their respective passages to said mixing chamber for opening and closing the other of said secondary cold valve ports.

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**2,647,530**
**UNLOADER VALVE**
**John S. Jaquith, Caldwell, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
**Application January 30, 1948, Serial No. 5,371**
**4 Claims. (Cl. 137—108)**

1. A valve comprising a housing portion having, in one position from left to right, a longitudinal seal bore, an internally threaded portion, a second bore communicating with said seal bore and colinear therewith having an outlet for con-

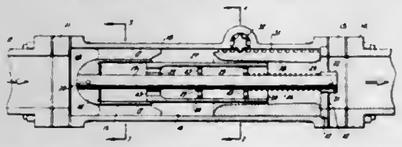
nection to a pump reservoir, and a third bore colinear with said seal bore and second bore and communicating therewith providing a shoulder and having an inlet for receiving fluid from a pump discharge, the third bore having an outlet adapted for connection to an accumulator and having a right-end bore forming a second shoulder and having a groove between the second shoulder and the right end; a sleeve in the third bore against the first shoulder including interiorly from left to right a relief valve bore having side slots, an intermediate bore smaller than the relief bore and a check valve chamber bore larger than the intermediate bore having side port means, the intermediate bore having relief and check valve seats at its left and right-hand ends, respectively, and being provided between the seats with a channel and passages to the inlet, the sleeve having exteriorly an annular fluid channel laterally opposite said inlet, annular lateral seal channels axially at opposite sides of the fluid



channel and a right-end portion of reduced outer diameter, a check valve operative as a dashpot in the check-valve chamber having definite fluid-flow clearance relative to the chamber wall including a stem extending from the check valve through the intermediate bore, a valve member on the stem for the relief valve seat and having a spring seat, a cup extending open end first into the seal bore threaded to said interiorly threaded portion and having an outer seal channel in the seal bore, a spring in the cup under compression between the closed cup end and said spring seat, a closure fitting within the right-end of the housing, and in telescopic engagement with the right-end reduced sleeve portion, said closure having a center portion fitting within said check valve chamber to form the outer wall thereof, and having a seal channel the right side of which abuts said second shoulder, a lock ring in the groove holding the closure in position, and a ring seal in each of said seal channels.

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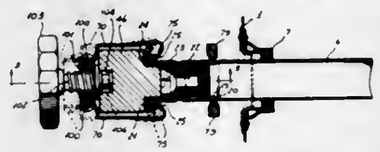
**2,647,531**
**FLOW CONTROL VALVE**
**William F. Berck, Hayward, Calif., assignor to Ralph N. Brodie Company, Oakland, Calif., a corporation of California**
**Application July 20, 1946, Serial No. 685,069**
**8 Claims. (Cl. 137—220)**



1. A valve, including a first member and a second member along which fluid may flow, said members forming an aperture therebetween converging in the direction of fluid flow through the valve, one of said members being so constructed and arranged as to be balanced against movement by the inlet pressure of fluid in the valve and subject to longitudinal movement in the direction in which said aperture converges by the fluid flowing therealong to decrease the area of said aperture, and yieldable means engaging said one of said members urging it longitudinally in the opposite direction to increase the area of said aperture, and operable to dispose said one of said members with its outlet end located intermediate the ends of the other member.

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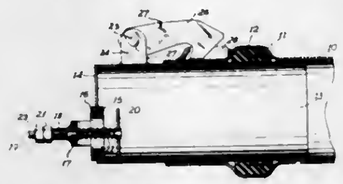
**2,647,532**
**VALVE OPERATING MECHANISM**
**John A. Hopwood, Westfield, N. J., assignor to Monitor Process Corporation, Jersey City, N. J., a corporation of New Jersey**
**Application May 24, 1949, Serial No. 94,950**
**3 Claims. (Cl. 137—315)**



1. In an apparatus for dispensing milk from a delivery can through a discharge tube having therein a slide valve with bendable tongues normally locking the slide valve to the tube; a valve operating arm, grippers adapted to engage and bend the tongues of the slide valve to unlock said slide valve from the tube and lock said slide valve to the arm for conjoint operation therewith, a traveller secured to the grippers and having a threaded opening, a manually operable threaded member passing through the threaded opening of the traveller, and means to lock the threaded member to the arm against axial movement while permitting rotary movement of the threaded member.

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**2,647,533**
**DRAIN PLUG FOR PIPE LINES**
**Oren O. Beymer, Eugene, Oreg., assignor to Irrigation Equipment Co., Inc., Eugene, Oreg., a corporation of Oregon**
**Application December 17, 1951, Serial No. 262,149**
**6 Claims. (Cl. 137—517)**



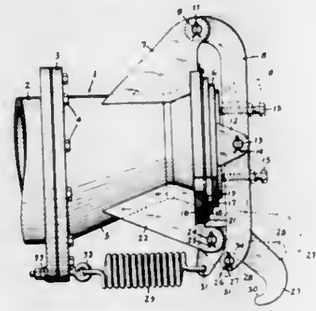
1. An end plug for an irrigation pipe line comprising a cylindrical sleeve adapted to be telescopically associated with the end of a pipe line, an end wall closing the outer end of said sleeve, said end wall having an opening therethrough, a resilient grommet seated on the rim of said opening, a bracket mounted on the exterior surface of said end plug and extending transversely of said opening in spaced relation to said end wall, valve stem guiding means supported by said bracket, a valve stem slidably mounted for longitudinal movement in said guiding means, said valve stem extending normally to said end wall in concentric relation to said opening and extending through said opening into the interior of said



sleeve, a valve head on the inner end of said valve stem, said valve head being of larger diameter than said opening and adapted to seal said opening when seated on said grommet, a spiral spring surrounding said valve stem between said valve head and said bracket and biasing said valve head inwardly from said grommet, and means to limit inward movement of said valve stem.

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**2,647,534**
**PRESSURE RELIEF VALVE APPLICABLE TO FUEL GAS MAINS**
**Benjamin A. Freeman, Upper Montclair, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York**
**Application October 12, 1949, Serial No. 120,887**
**4 Claims. (Cl. 137—527)**

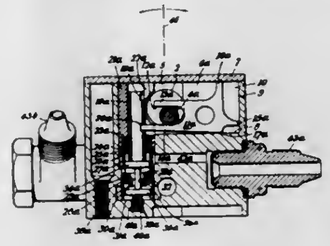


4. An automatic pressure relief valve adapted to open under predetermined pressure and to remain open under pressure lower than said predetermined pressure comprising in combination, a closure movable to open and closed position, pressure means exerting a force on the closure constantly urging it in normal closed position, a member extending from the closure and movable therewith, a cam having a recess on its surface engaging said member, said member resting in the recess when the closure is in normal closed position thereby imparting added resistance to initial opening movement of the closure until overcome by the initial opening of the closure but without substantial resistance to the closing movement of the closure, and a stop on the cam limiting the extent to which the closure may open thereby preventing over-travel of the closure.

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**2,647,535**
**FLUID PRESSURE VALVE**
**Henry William Trevaskis, Solihull, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company**
**Application March 10, 1948, Serial No. 14,032**
**In Great Britain March 13, 1947**
**7 Claims. (Cl. 137—622)**

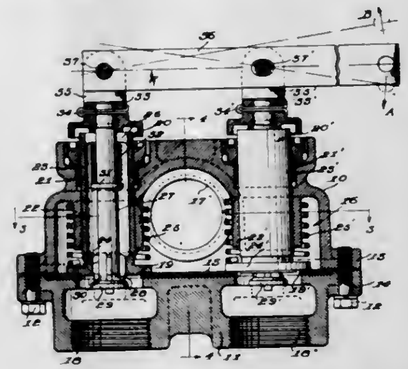
1. A fluid pressure valve for the remote control of mechanism having supply, operating and exhaust chambers, co-axial inlet and exhaust valves, a recessed operating member co-axial with the said valves forming a seating for the said exhaust valve, a rocker shaft formed with an eccentric having a cross section smaller than that of said shaft, an angularly displaceable member positioned to move the said operating member axially, said angularly displaceable member being bifurcated at one extremity to form a slot to engage said eccentric, and to form a branch extending to engage the recess of said operating member, said displaceable member having at least two projecting fingers at the extremity opposite said bifurcation positioned to



contact the walls of said exhaust chamber whereby the angularly displaceable member rocks relative to the walls of the exhaust chamber when actuated by the said rocker shaft and moves the said movable member axially.

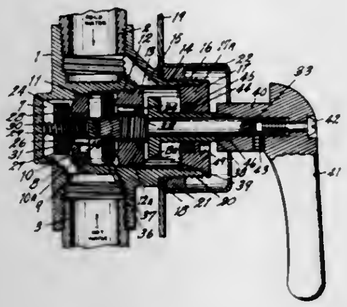
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**2,647,536**
**DIRECTIONAL VALVE**
**Einar O. Lunde, Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y., a corporation of Delaware**
**Application March 22, 1949, Serial No. 82,810**
**4 Claims. (Cl. 137—622)**



1. A valve structure comprising a body having an air chamber therein, an inlet air connection in said body in communication with said chamber, a pair of outlet connections in said body, and a valve controlling communication between said chamber and each of said outlet connections, said valves each comprising a substantially tubular stem reciprocally supported in the body, a valve member carried by the stem and cooperating with a valve seat about the margin of the respective outlet connection, a spring surrounding the stem and bearing on the valve member for normally holding same closed, means connected with the stems for opening the valves, a bleeding valve disposed within each said stem, and including a valve member engageable with a seat on the valve stem, and a spring normally urging the bleeding valve to open position for exhaust of air through the tubular valve stem when the respective valve member is engaged with its seat.

**2,647,537**
**MIXING VALVE**
**Hughlin E. Klingler, Elkhart, Ind.**
**Application June 14, 1950, Serial No. 168,099**
**13 Claims. (Cl. 137—630.16)**

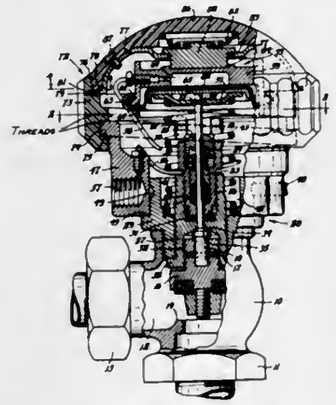


6. In a mixing valve having angularly spaced hot water and cold water supply connections and a delivery connection, a body for said valve having a central bore formed therein normal to the plane of said connections and opening to the front side of the body, spaced hot and cold valve seats of different diameters threadingly engaged in said bore to form a mixing chamber therebetween and a hot water chamber at the inner end of the bore and a cold water chamber at the outer end of the bore, passages formed in said body and communicating between said chambers and their respective connections, a hot water valve cooperative with the rear face of said hot water valve seat and having a stem projecting forwardly into said mixing chamber, a spring received in a socket in the rear of said stem biasing said hot water valve to closed position, an operating valve stem positioned axially in said bore and threadedly engaged with said cold water valve seat and projecting therethrough, a cold water shutoff valve carried on the inner end of said operating stem within said mixing chamber and cooperative with the inner face of said cold water seat, a cold water regulating valve carred on said operating stem on the forward side of said cold water seat and movable axially with said operating stem to coact with said cold water seat in the extreme hot adjusted position of the valve, a packing threadedly engaged with the forward end of said body and sealingly embracing said operating stem, and a handle nonrotatably and axially fixed on said stem and coacting with said cold water regulating valve to clamp the same axially on said stem.

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**2,647,538**
**MANUALLY AND FLUID-PRESSURE OPERATED VALVE**
**Peter P. Demay, Chicago, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application September 18, 1947, Serial No. 774,847**
**16 Claims. (Cl. 137—641)**

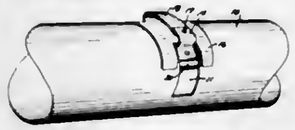
6. A valve having a body with a passage therethrough, a seat portion in said body and across said passage, a movable valve member, a stem member for actuating said valve member, packing means for said stem member, means for engaging aid stem member above said packing for actuating said valve member to open and closed positions, and means for engaging said stem member below said packing for actuating said



valve member to a closed position and for forming a seal with said stem member.

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**2,647,539**
**SIDE OUTLET FOR ABOVE-GROUND IRRIGATION PIPES**
**Howard E. Stearns, Grand Island, Nebr.**
**Application May 16, 1950, Serial No. 162,328**
**8 Claims. (Cl. 137—735)**



1. Means for controlling the flow through a circumferential elongated opening formed in the wall of thin walled pipe comprising: a relatively thin inner arcuate member curved to conform to the inner diameter of said pipe, said member having the length and width respectively exceeding length and width of said opening and having a less width than the length of said opening so that it may be passed through the opening and brought to rest against the inside of said pipe about said opening; an arcuate outer member arranged to rest against the outside of said pipe about said opening; and means attaching said outer member to said inner member through said opening so that both members may be moved as a unit to regulate the size of said opening, said attaching means being positioned to alternately contact the circumferential extremities of said opening to limit the amount of movement of said members.

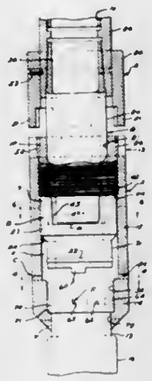
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**2,647,540**
**COMBINED TUBING DRAIN AND JAR**
**John S. Page, Long Beach, Calif., assignor to Page Oil Tools Inc., Long Beach, Calif., a corporation of California**
**Application April 21, 1947, Serial No. 742,939**
**4 Claims. (Cl. 137—739)**

1. A structure applicable to a tubing including, a tubular body section with a cap and having a lateral drain opening, a tubular stem section slidably carried in the cap and having a head within the body section, a plug carried by the stem section normally engaged in a plug opening in the



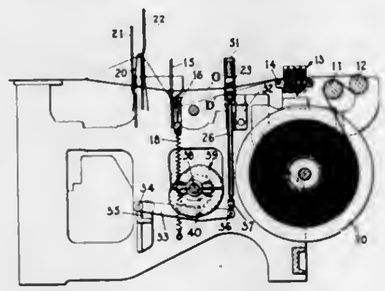
body section stopping flow through the opening, a lug on the cap normally engaging the head to hold the sections in the normal position, the head having a recess adapted to receive the lug to permit relative longitudinal movement between the sections to retract the plug from the



plug opening, stop means stopping the stem relative to the body with the lug engaged with the head and stopping the stem relative to the body with the lug in register with the recess, and a collar keyed to one section and frictionally coupled to the other section normally yieldingly holding the sections against relative rotation.

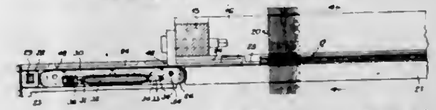
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**2,647,541**
**LENO WEAVING**
**Edward C. Nichols, Upton, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine**
**Application February 17, 1951, Serial No. 211,466**
**8 Claims. (Cl. 139—50)**



1. In a method of weaving leno fabric which includes the step of inserting filling within warp sheds formed by manipulation of ground and doup threads the latter of which are, according to a predetermined pattern, crossed over the ground threads to form a crossed shed at some picks as distinguished from an open shed prevailing when the two groups of threads are not crossed, the step of applying an additional tensioning force to the ground threads only during a part of the cycle when an open shed pick is being woven thereby to facilitate the weaving of more uniform leno material.

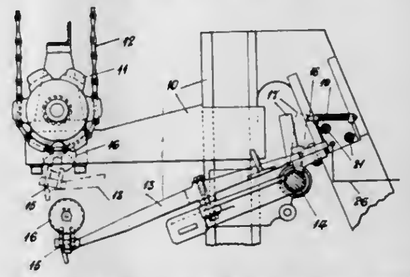
**2,647,542**
**MAGNETIC SHUTTLE-GUIDING MEANS**
**Bruce B. Purdy, Appleton, Wis., assignor to Appleton Wire Works, Inc., Appleton, Wis., a corporation of Wisconsin**
**Application October 10, 1949, Serial No. 120,551**
**11 Claims. (Cl. 139—134)**



1. In a loom shuttle adapted to travel along a lay having a reed of magnetizable material, a shuttle body, a permanent magnet carried by said shuttle body and having polar portions adjacent to the reed side of said body for magnetically holding the shuttle in a course along the reed, and rollers carried by said shuttle body and adapted to ride on the face of the reed to prevent contact between said polar portions and the face of the reed.

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**2,647,543**
**LOOM FOR WEAVING TUFTED PILE FABRICS**
**Isaac Bradley Bassindale, Oldham, England, assignor to Platt Brothers and Company Limited, Oldham, England**
**Application September 13, 1950, Serial No. 184,551**
**In Great Britain September 15, 1949**
**2 Claims. (Cl. 139—336)**



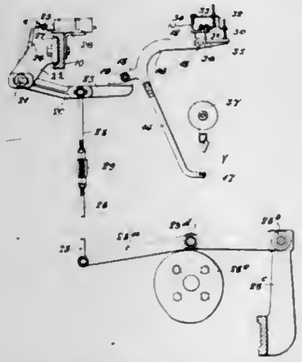
1. Electrically operated stop motion means of the type referred to for the transferring mechanism for the tube frames of a spool Axminster carpet loom and which is carried on a pivot shaft mounted in the loom frame, in combination with means for bringing said stop motion means into operation, including a lever mounted on the pivot shaft of said transferring mechanism and adapted to oscillate with said shaft in the movement of the transferring arms, a bracket secured to the loom frame but insulated therefrom, and a spring-influenced plunger located in the path of movement of said lever and slidably mounted in said bracket, said plunger forming one terminal contact of the stop motion means, the other terminal contact of which is formed by the aforesaid lever.

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**2,647,544**
**LOOM FOR WEAVING TUFTED PILE FABRICS**
**Isaac Bradley Bassindale, Oldham, England, assignor to Platt Brothers and Company Limited, Oldham, England**
**Application September 13, 1950, Serial No. 184,552**
**In Great Britain September 15, 1949**
**6 Claims. (Cl. 139—336)**

1. In an electrically operated stop motion mechanism for spool Axminster tufted pile fab-

ric looms of the type including transferring mechanism for disengaging and removing tube frames each carrying a spool of tuft yarn from carrying chains of the loom and transferring them to the place where tuft yarns are inserted between warp threads of the tufted pile fabric being woven and are cut by the loom knives and restoring the tube frames to the carrier chains, said electrically operated stop motion mechanism including an electrical circuit for automatically stopping the loom on failure of the knives of the loom to sever the tuft yarn at any point along the width of the fabric being woven by the loom, a loom frame, an overhead shaft pivotally mounted on the loom frame, a cradle carried on said pivoted shaft including a cross bar extending the full width of the fabric being woven by the loom, said cross bar being normally located above and slightly to the front of the fell of the fabric, a lever system carried by the loom frame including a projecting arm which moves upwardly and downwardly in timed sequence during the loom

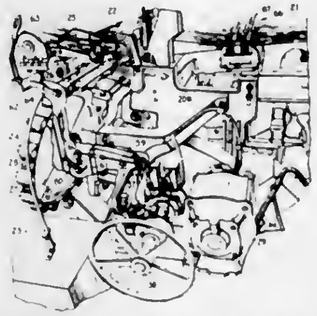


cycle, said projecting arm being operatively associated with said cradle for swinging said cradle backwardly during the upward movement of said arm and for permitting said cradle to swing forwardly during the downward movement of said arm, a sequence switch in said circuit operatively associated with said lever system for actuation to closed position thereby upon downward movement of said arm, and a second switch in said circuit in series with said sequence switch whereby said circuit is closed and the loom stopped when said sequence switch and said second switch are both closed at the same time, said second switch being operatively associated with said cradle and arranged to be actuated to closed position when said cradle is swung backwardly by said arm of said lever system during its upward movement, said second switch being held in closed position by said cradle upon the failure of the knives of the loom to sever a tuft yarn which in turn is engaged by said bar and prevents said cradle from moving forward after being swung backwards by the upward movement of said arm of said lever system.

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**2,647,545**
**STOP MOTION FOR LOOMS**
**Walter J. Budzyna, East Douglas, Mass., and Maurice R. Flamand, Central Falls, R. I., assignors to Draper Corporation, Hopedale, Mass., a corporation of Maine**
**Application August 6, 1949, Serial No. 109,036**
**16 Claims. (Cl. 139—353)**

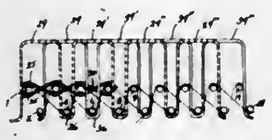
1. In a stop motion for a loom, a periodically moving actuator, a means to disconnect a source of power from the loom, a detent pivotally mounted upon said means to disconnect the source of power from the loom and movable transversely to the directions of movement of said power disconnecting means to and from a position between the moving actuator and the means for disconnecting the source of power so



that movements of the actuator are conveyed through to the means for disconnecting the source of power when said detent occupies a position between the said parts, and thread sensing means effective upon sensing an abnormality in the condition of the thread, to move said detent into said position between the moving actuator and means to disconnect power from the loom.

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**2,647,546**
**PILE FABRIC WITH A THROUGH-TO-THE-BACK BIND**
**Walter M. Ryan, Worcester, Mass., assignor to M. J. Wittall Associates, Inc., Worcester, Mass., a corporation of Massachusetts**
**Application February 20, 1952, Serial No. 272,553**
**3 Claims. (Cl. 139—403)**



3. A textile fabric of the character described, comprising a web composed of warp yarns interwoven with wefts, lower wefts below the web, warp pile yarns of which, alternate ones lie under alternate lower wefts and the intervening ones lie under the intervening lower wefts; said warp pile yarns being formed with successive loops extending through and above the said web; one lower weft lying between every pair of successive loops and warp chain yarns binding the wefts of the web with the lower wefts.

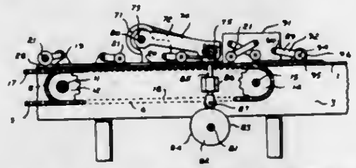
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**2,647,547**
**SHINGLE SURFACING MACHINE**
**James S. Gifford, New Westminster, British Columbia, Canada**
**Application June 23, 1951, Serial No. 233,226**
**4 Claims. (Cl. 144—13)**

1. A shingle machine comprising a bed, a fast and a slow conveyor extending along said bed, each of said conveyors having flights for engaging shingles to urge them along said bed, trimming devices mounted above said bed adapted to treat the side edges of a shingle as it is carried



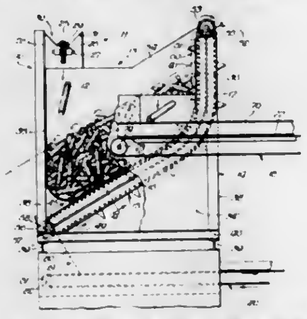
by the fast conveyor and a surfacing device extending transversely of said bed adapted to treat



a surface of a shingle as it is carried by the slow conveyor.

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**2,647,548**
**SHORT WOOD CHAIN BARKER**
**Herbert W. Guettler, San Francisco, Calif.**
**Application October 8, 1949, Serial No. 120,304**
**7 Claims. (Cl. 144—208)**

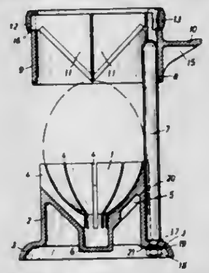


7. In a log barker, a stationary open top vat comprising side and end walls and a bottom wall extending from one end wall at an upward inclination toward and merging into the other and opposite end wall, and log propelling and agitating chain means entering said vat through the bottom thereof and traveling along said bottom wall toward and upward along said other end wall, said chain means having upwardly projecting substantially triangular lugs effective for engaging logs and moving them along said bottom and said other end wall and directing them from the latter wall back into said vat, one of said side walls being of materially less height than said other end wall adjacent the latter for discharge of barked logs over said one side wall.

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**2,647,549**
**DEVICE FOR DIVIDING FRUITS**
**Hans Koch, Munich-Pasing, Germany**
**Application December 12, 1950, Serial No. 200,340**
**In Germany February 10, 1950**
**4 Claims. (Cl. 146—3)**

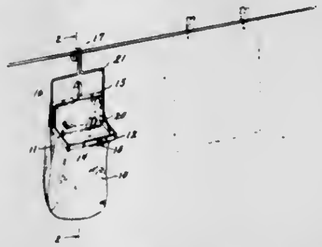
1. A device for dividing fruits, e. g. lemons or oranges, comprising an integral body including a hollow cylindrical portion, a base portion joined to the lower rim of said cylindrical portion, and a bowl-shaped portion joined to the upper rim of said cylindrical portion so as to extend towards said lower rim, and being provided with radial grooves, said cylindrical portion being provided on its outside with two opposite vertical grooves of substantially half circular cross-section, a pair of vertical guide rods secured to said base so as to be embedded with substantially half the outer surfaces of their lower portions in said vertical grooves respectively, a sleeve-shaped member and a system of knives interiorly of and secured to said sleeve and adapted to engage said radial grooves of said bowl, said sleeve-shaped member being adapted to be telescoped over said cylindrical portion and being provided with two opposite vertical inner grooves in which said rods



respectively, engage, each inner groove of said member substantially complementing one of said outer grooves of said cylindrical portion to the cross-section of the associated rod whereby said sleeve member can be shifted down with its lower rim as far as said base portion.

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**2,647,550**
**CLOTHESPIN HOLDER**
**William J. Cannon, Covington, Ga.**
**Application August 17, 1951, Serial No. 242,230**
**1 Claim. (Cl. 150—1.8)**



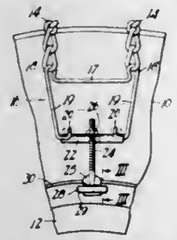
A clothes-pin holder of the character described, comprising a flexible bag having an open mouth; a pair of hinged U-shaped frame members secured to the open mouth end of the bag having fastening members to secure them in closed position; a U-shaped wire bail member pivotally secured to the frame members at their hinge axes and having a hook adapted to engage a clothes-line, whereby the opened bag may be suspended from and slid along the line to afford free access to the clothes-pins; and stop means on a leg of one of the frame members engageable by a leg of the bail member to hold the frame member carrying said stop means in vertically suspended position.

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**2,647,551**
**TRACTION DEVICE**
**Henry R. Richards, Buffalo, N. Y.**
**Application January 25, 1950, Serial No. 140,417**
**2 Claims. (Cl. 152—236)**

1. A mud hook device for attachment to a pneumatic tire wheel rim carrying paired yoke devices at opposite sides thereof adjacent to, spaced from and under the outturned rim edge portions thereof, said mud hook device comprising a cross chain element adapted to stretch across the tread portion of the vehicle tire, a bent wire

bracket member connected into each end of said cross chain element and extending therefrom into connection with a cross bar element, a hook member positioned at each of said cross bar elements and comprising in each case a threaded stem portion and a hook head portion integral therewith, said stem portions being inserted



through apertured portions of said cross bar members and having nuts threaded thereon for retaining said hook members relative to said cross bar members, said hook head portions being C-shaped in edge view to slip-fit into the spaces between said yoke members and the outer turned edges of said rim and to rotate therewithin.

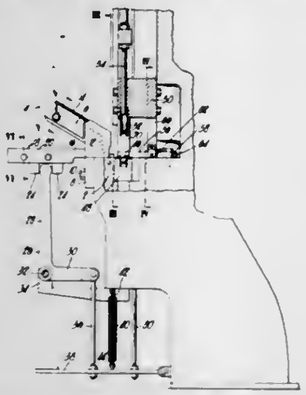
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**2,647,552**

**PUNCH PRESS**

**Harry E. Magnuson, Worcester, and Walter J. Moren, Auburn, Mass.**

**Application January 25, 1951, Serial No. 207,811**
**15 Claims. (Cl. 153—48)**



1. A punch press for forming U-shaped articles from straight rods comprising a pair of spaced grooved guide rolls, a reciprocating press ram positioned above said spaced rolls, a punch attached to said press ram and normally positioned above and between said spaced rolls, means for supporting a straight rod above said spaced rolls, means for centering a straight rod supported above said spaced rolls in the path of said punch, said punch press ram being movable to drive said punch downwardly to bend said straight rod into a U-shape between said spaced rolls, an inclined magazine disposed adjacent said punch press with its lower end adjacent said spaced rolls, said magazine being adapted to contain a plurality of straight rods, a vertical discharge chute in the lower end of said magazine, an elongated pusher rack slidably disposed horizontally beneath said magazine, said rod supporting means including a pair of spaced arms projecting from the forward end of said pusher rack, said projecting arms having grooves in the ends thereof for receiving a rod from said discharge chute, and means for moving said rack toward said punch press to position said spaced arms astride said pair of spaced rolls and thereby support said rod in the path of said punch.

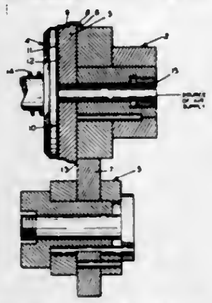
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**2,647,553**

**METHOD AND APPARATUS FOR FABRICATING SHEET MATERIALS**

**John M. Sharf, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**

**Application September 10, 1949, Serial No. 115,053**
**20 Claims. (Cl. 153—72)**



1. In a method of fabricating articles from sheet materials, the steps comprising imparting rotary motion to a blank to be fabricated disposed upon a support while effecting relative movement between a surface of said blank and a surface of said support, said relative movement being in a plane generally normal to the axis of rotation of said blank, urging said surfaces of said blank and support toward one another, and prior to and during said relative movement disposing a film of air under pressure between said surfaces of said blank and support to separate the same during said relative movement between said surfaces.

19. In a device for trimming the skirt of a blank of sheet material having a circular head portion and a depending annular skirt portion, the combination of a supporting tool having a severing edge thereon, a rotary cutter interengageable with said cutting edge of said supporting tool for severance of a blank disposed therebetween, means for yieldingly urging said blank over said supporting tool, and means for supplying air under pressure to separate said blank from said supporting tool in a plane generally normal to the axis of rotation of said supporting tool before initiation of and during severance.

20. In an apparatus for forming a screw thread projection on a blank of sheet material having a circular top and a depending annular skirt, the combination of an internal thread-forming tool which is smaller than the blank and adapted to be received therewithin, an external forming tool engageable with the blank and cooperating with the internal tool to form a screw thread projection on the blank, means for applying force to said blank in an axial direction to urge the same axially with respect to said internal forming tool, said internal and external forming tools being rotatable at substantially the same surface speeds to effect thread formation by rotary movement of the blank, and means for supplying air under pressure to the head of said internal threading tool to space the blank away from the head surface of the internal forming tool before initiation of and during thread formation.

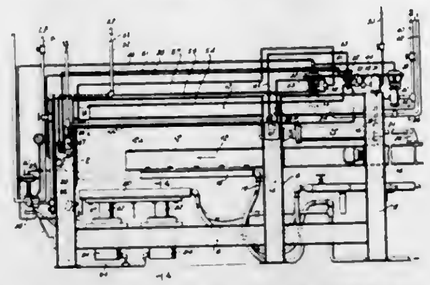


**2,647,554**

**HYDRAULICALLY OPERATED VULCANIZING PRESS**

**Herman Hugo Otto Grieshammer, Easton, Pa., assignor to Victor Balata & Textile Belting Co., Easton, Pa., a corporation of Pennsylvania**

**Application September 1, 1950, Serial No. 182,793**
**7 Claims. (Cl. 154—1)**



1. A vulcanizing press of the character described, comprising a first platen, hydraulic means for moving said platen vertically, a first set of vertically extending supporting standards positioned at one side of said platen, horizontally projecting, horizontally movable beams carried by said supporting standards, a second platen carried by said beams and positioned thereon entirely at one side of said supporting standards, means for advancing and retracting said horizontal beams and the platen carried thereby, the ends of the projecting beams, and one end of the platen carried thereby, projecting into the press, above said vertically movable first platen, and being entirely clear and unobstructed in the retracted position, a second set of vertically extending supporting standards positioned at the opposite side of said vertically movable first platen with respect to said first set of standards, said second set of standards having a horizontally extending abutment with which the projecting ends of said horizontally movable beams are adapted to engage when in the advanced or operative position, said clear and unobstructed ends of the horizontal beams and the platen carried thereby, when in the retracted position, permitting the removal therefrom of a closed loop article formed by vulcanizing between said platens.

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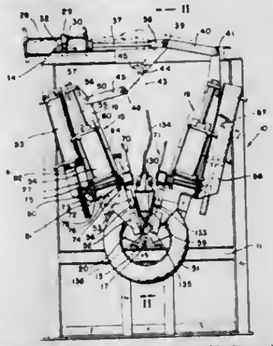
**2,647,555**

**METHOD AND APPARATUS FOR SPLICING**

**Dorr J. Hinman, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**

**Application December 12, 1950, Serial No. 200,462**
**17 Claims. (Cl. 154—9)**

1. A method of splicing raw vulcanizable rubber tubes comprising the steps of clamping the ends of a tube to be spliced in opposing spaced relation with excess portions of the tube projecting outwardly, making an initial cut on such ends to remove the bulk of the projecting portions, making a subsequent very thin cut to provide smooth, even end faces on the tube, subsequently subjecting the cut end faces to the action of intense radiant heating by bringing a heated surface into close proximity to said faces, but not into actual physical contact with said faces, for a period of time sufficient to bring such end faces to a soft state without appreciable heating of the undersurface of the tube, and then removing said heated surface and immediately thereafter bringing the heated end faces of the tube together in pressurized contact, and maintaining said faces together until they are united.



11. An apparatus for butt splicing tubes of raw vulcanizable rubber stock comprising in combination a pair of oppositely disposed jaws for clamping the ends of a tube to be spliced with portions of said ends projecting outwardly from said jaws, means for making a first cut to remove the bulk of the projecting end portions of said tube, means for making a second cut spaced slightly closer to said jaws to remove only a thin slice of said projecting end portions, a radiant heating means interposable between said jaws in closely spaced proximity to the cut end surfaces of the tube, and means for bringing said jaws together to butt splice the cut and heated end surfaces of the tube.

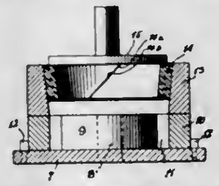
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**2,647,556**

**PROCESS OF APPLYING COVERS TO DRAWING ROLLS**

**Edward J. Courtney, Oaklyn, N. J.**

**Application May 20, 1948, Serial No. 28,247**
**3 Claims. (Cl. 154—41)**



1. The process of covering a roll which comprises bending a strip of cover material into a ring of larger internal diameter than the external diameter of the roll to be covered, the said strip being longer in the external periphery of the roll, and, while confining the strip in ring form, forcing it over the roll while simultaneously placing the ring under compression annularly and axially thereof, applying cement for the contacting surfaces of roll and ring prior to said forcing, and confining the ring on the roll after said forcing until the cement has set.

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**2,647,557**

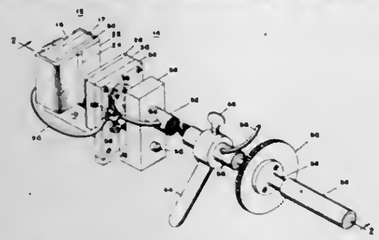
**HEAT SEALING APPARATUS**

**Gerald J. Selvin, Bronx, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission**

**Application July 25, 1950, Serial No. 175,804**
**4 Claims. (Cl. 154—42)**

1. Heat sealing apparatus adapted for remote manual operation which comprises a support

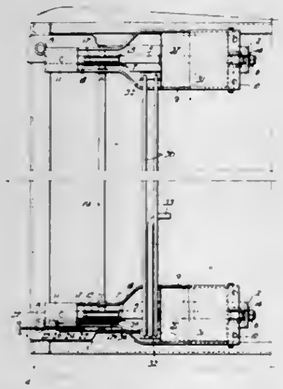
member for an article to be sealed, a plurality of jaws mounted on said support, at least one of said jaws being movable with respect to the others and to said article, means for heating at least one of said jaws, manual actuating means for said movable jaw disposed at a substantial



distance therefrom and connected thereto by an elongated rod and a handle affixed to said rod closer to said actuating means than to said support, said handle being adapted for the manual holding of said apparatus during the sealing operation.

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**2,647,558**
**MOTOR VEHICLE SEAT**
**Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.**
**Application October 2, 1947, Serial No. 777,477**
**11 Claims. (Cl. 155—14)**

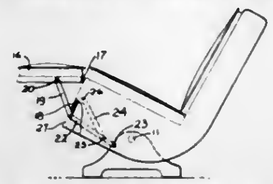


1. A motor vehicle seat, plural power units arranged under the opposite sides of the seat for fore and aft adjustment, each unit comprising a fluid motor having a fluid chamber and a fluid responsive member, a rod connected to each fluid responsive member and extending through the opposite ends of the chamber, bracket means mounting the rod and chamber elements one on the seat and the other on the supporting vehicle structure, such bracket means supporting the rod at its opposite ends, and means operatively applying fluid pressure to the motors.

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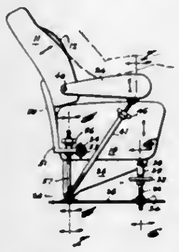
**2,647,559**
**RECLINING ARTICLE OF FURNITURE**
**Franklin Richardson, Glendale, Calif.**
**Application July 28, 1952, Serial No. 301,189**
**4 Claims. (Cl. 155—105)**

1. An article of furniture comprising a base or supporting structure, a seat and backrest pivotally supported for rocking movement thereon about a pivot arranged beneath the seat, a leg rest hingedly mounted upon the forward side of the seat, a link pivotally connected to the leg rest, a second link pivotally connected to the mentioned link and to the base, and a third link pivotally connected to the second link intermediate its ends and to the seat at a point forwardly of the first-mentioned pivot, whereby as the seat is tilted rearwardly relative to the base the links will collectively cause the leg rest to swing upwardly and forwardly relative to the seat.



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**2,647,560**
**POSTURE CHAIR AND SEAT**
**William C. Huebener, Cincinnati, Ohio**
**Application January 18, 1951, Serial No. 206,587**
**6 Claims. (Cl. 155—118)**



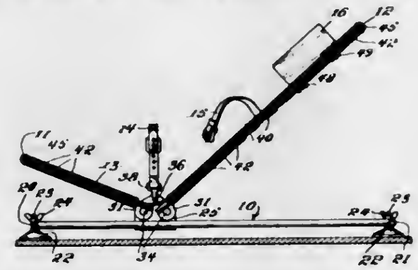
1. In a vehicle seat, the combination of a bottom supporting member, a back support generally inclined upwardly and rearwardly from the bottom support, said back support being provided with an outwardly extending arcuate protuberance formed with an arcuate surface, the maximum projection of which surface exerts pressure against the back of a subject at a point along the line between the heart of the subject and the point of generation of the arcuate surface, thereby to provide back support prominence behind the lower chest wall of the subject, said protuberance defining a chord, the projection of which forms an included angle of forty-five degrees with the top surface of said bottom support, and a pair of arm supports for maintaining the upper arms at an angle with respect to the spine.

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**2,647,561**
**INVALID CHILD'S BATHING AND AMUSEMENT CHAIR**
**Fred Szabo, Corona, Calif.**
**Application September 12, 1951, Serial No. 246,185**
**1 Claim. (Cl. 155—118)**

In an adjustable seat, the combination which comprises a rectangular shaped tubular frame, vacuum cups carried by the corners of said frame, mounting plates with spaced bolt holes therethrough and having radially disposed indentations positioned around said bolt holes extended upwardly from side members of said frames, the upper ends of each of said mounting plates being substantially triangular in shape and having an opening therein receiving a hook shaped element, substantially U-shaped back and seat frames having discs with bolt holes therethrough and having radially disposed projections around said bolt holes mounted on the ends of the arms thereof, the radially disposed projections of the discs positioned to register with the indentations of the mounting plates, a canvas sheet positioned on the seat and back frames with the edges of

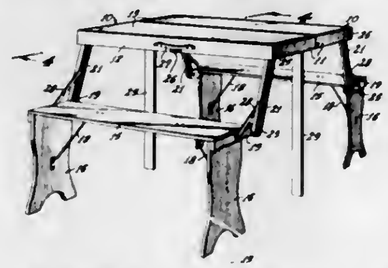




the sheet extended around rails of the frames and secured to the body of the sheet with grommets, a retaining means secured to the hook-shaped elements received in the opening in each of said mounting plates, and studs with thumb nuts thereon extended through said discs and mounting plates for retaining the seat and back frames in adjusted positions.

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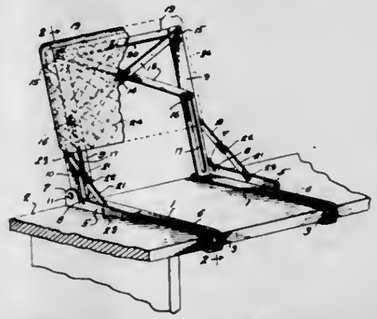
**2,647,562**
**FOLDABLE TABLE AND SEAT ASSEMBLY**
**Charles F. Hoffar, Los Angeles, Calif., assignor, by mesne assignments, to Andrew A. Schmidt, Los Angeles, Calif.**
**Application November 6, 1950, Serial No. 194,224**
**5 Claims. (Cl. 155—124)**



1. In a device of the type described, a pair of benches, each including a top portion having a planar upper seating surface and foldable legs at the ends of said top portion; a pair of receptables each including a transverse wall and end and side walls; a plurality of hinge elements spacedly fixed to a side wall of each receptable; means carried by the hinge elements fixed to one receptacle for releasably interengaging with the hinge elements of the other receptacle for hingedly interconnecting said receptacles whereby the same can be moved together to form a case and moved apart to a position in which said transverse walls thereof are coplanar to form a table top; elongate, rigid links pivotally interconnecting opposite ends of each bench to opposite ends of the receptacle adjacent each bench, said links, when said benches are arranged at opposite sides of said table top, supporting said top from said benches; said benches being arcuately movable from the said positions at the opposite sides of said table top to positions in which the planar surfaces thereof are facewisely engaging the undersurfaces of said receptacles, whereby said table top is directly supported by said benches; said links pivotally moving during the aforesaid arcuate movement of said benches to positions intermediate the ends of said benches and the end walls of said receptacles; release of said interengaging means of the hinge elements permitting each receptacle and its bench to be used as a separate table having a level substantially that of its bench.

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**2,647,563**
**COLLAPSIBLE BLEACHER TYPE BACK REST**
**William J. Bishop and George C. Dibble, Logansport, Ind.**
**Application January 8, 1951, Serial No. 204,962**
**1 Claim. (Cl. 155—133)**



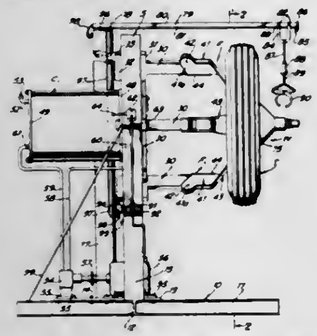
A portable back rest for a bench comprising base bars having front ends bent downwardly and rearwardly and thereby formed with seat-engaging hooks said base bars having flanges projecting upwardly along outer side edges of their rear portions, and a back supporting member including side bars having lower ends pivoted to rear ends of the flanges of said base bars for forward and rearward swinging movement to folded and raised positions, said side bars having rearwardly extending flanges along their outer side edges, lower portions of the said side bars being formed with longitudinally extending slots having laterally extending recesses at their upper ends, braces pivoted to each other midway their length and having upper ends pivoted to upper ends of said side bars, pins projecting from lower ends of said braces and passing through said slots and slidable in the slots to permit movement of the side bars towards and away from each other and being engageable in said recesses, strips extending between upper ends of the side bars and having inner ends pivoted to each other and outer ends pivoted to the said upper ends of the side bars, and break joint braces consisting of upper and lower strips pivoted at inner ends to each other, the lower strips being pivoted at outer ends to the flanges of the base bars the upper strips having outer ends pivoted to the rearwardly extending flanges of the side bars in upward spaced relation to lower ends of the said side bars.

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**2,647,564**
**TIRE REMOVING APPARATUS WITH CIRCUMFERENTIALLY DISTRIBUTED THRUST MEMBERS**
**Ernest Douglass, Pomona, Calif., assignor to Homer L. Hunsicker, Beverly Hills, Calif.**
**Application March 4, 1947, Serial No. 732,355**
**1 Claim. (Cl. 157—1.2)**

A tire demounting apparatus which includes: a supporting frame having a plurality of

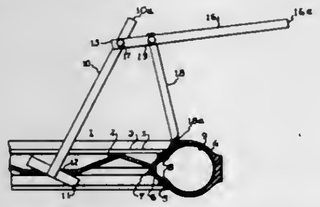
radial members extending outwardly from a central axis; means for supporting a flanged rim with a tire thereon and moving the same along said axis toward said frame; a pressure arm slidably mounted on each of said radial members for movement therealong, said arms extending longitudinally of said axis and spaced therefrom; means for adjusting the radial position of said pressure arms; a relatively short pressure shoe pivotally mounted on the outer end portion of each of said pressure arms, each of said shoes being formed of spaced parallel plates having rearwardly and outwardly extending portions at one of their ends with a pivot pin extending



therebetween and engaging said pressure arm, each of said shoes having a relatively short flat pressure plate thereon joining the free ends of said parallel plates and extending angularly inwardly from the outward edges of said parallel plates whereby to engage a tire being advanced toward said frame and to be forced inwardly between the bead of said tire and the flange of said rim, said pressure plates being of sufficient rigidity and strength to force said tire from said rim as the rim continues to move toward said frame; and spring means engaging the inward edges of the parallel plates of each of said pressure shoes and urging them outwardly to a position longitudinal of said frame axis.

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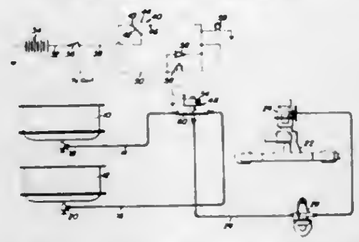
**2,647,565**
**LEVER ACTUATED TIRE BEAD LOOSENING TOOL**
**Dustin D. Patterson, Darlington, Pa.**
**Application August 24, 1950, Serial No. 181,167**
**2 Claims. (Cl. 157—1.17)**



1. A tool for loosening the bead of a tire from the rim of a vehicle wheel having a central axle opening comprising a T-shaped member providing an anchoring bar and supporting bar, said anchoring bar having its end portions bent at an obtuse angle in opposite directions, so as to provide wheel engaging surfaces on opposite sides of the wheel and at diametrically opposite edges of the wheel opening, said supporting bar being rigidly connected to and extending upwardly from said anchoring bar, a lever comprising a straight bar having one end pivotally connected to the upper end of said supporting bar and its other end providing a handle, and a tire iron having a tip at its lower end for engaging the tire in a region of the bead thereof and a pivotal connection at its upper end to said lever straight bar at a point between the handle and the pivotal connection to said supporting bar.

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**2,647,566**
**MOTOR FUEL SELECTOR ASSEMBLY**
**Earl L. Haynie, Berwyn, Ill.**
**Application November 21, 1950, Serial No. 196,830**
**2 Claims. (Cl. 158—36.3)**



1. In an engine fuel supply assembly which includes a carburetor, a fuel pump connected thereto by means of a pipe, a first and a second fuel supply tank, and conduits extending from each tank, together with a selective valve connecting said conduits and a pipe leading from the selective valve to the fuel pump, means for operating said selective valve comprising a selector switch having a wire adapted to connect the switch to an ignition system for an engine, a suction responsive switch, an electrical conductor extending from said selector switch to said suction responsive switch, said suction responsive switch being adapted to operatively connect with the intake manifold of an engine for actuation in response to vacuums above and below a predetermined range, said suction responsive switch having an electrical conductor extending therefrom, an electric motor arranged to actuate said selective valve and mechanically connected therewith, and said motor connected for operation with the last-mentioned electrical conductor, and means responsive to operation of said selector switch and connected with said selector switch and said motor for by-passing said suction responsive switch.

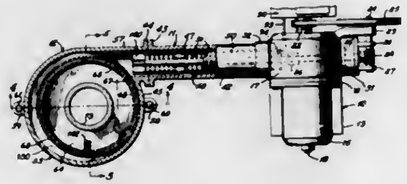
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**2,647,567**
**OIL BURNER**
**Ernest F. Ciglia, Mount Vernon, N. Y.**
**Application July 30, 1951, Serial No. 239,235**
**17 Claims. (Cl. 158—53)**

1. A pot-type oil burner comprising, a burner pot having an outer wall, a cylinder disposed eccentrically and vertically within said pot to define a crescent-shaped spaced therebetween, the inside of said cylinder comprising a combustion chamber, means closing the top and bottom of said space, circumferentially spaced apertures through the upper portion of said cylinder to admit fuel to said combustion chamber, a fuel vaporizing tube, means defining a passageway from said tube into the crescent-shaped space between said outer wall and cylinder tangentially of said cylinder and adjacent one end of said space, said tube being arranged to receive heat from combustion in said pot, means for effecting vaporization of liquid fuel on a surface of said tube including a fan arranged to blow air and vaporized fuel through said tube and passageway into said pot, and heat insulating means around said cylinder below said apertures to substantially prevent radiation into said vaporizing tube.

2. In an oil burner, a burner pot comprising a generally cylindrical outer wall, a hollow metal cylinder within and spaced from said outer wall, means closing the ends of the space between said cylinder and outer wall, a heat conductive plate closing the bottom end of said cylinder, means for admitting vaporized fuel and air to the space between said outer wall and cylinder, circumferentially spaced apertures through the upper portion of said cylinder providing for admission of fuel and air to the inside of said cylinder from said space, means for admitting liquid starting fuel into said cylinder on said heat conductive plate, and auxiliary heating means below said plate to initially heat the same and vaporize the starting fuel thereon.



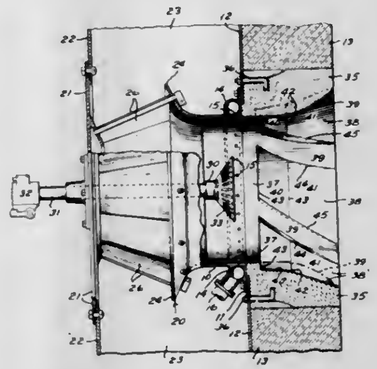


4. A liquid fuel vaporizing apparatus comprising, a stationary outer cylindrical tube, a vaporizing tube rotatably mounted coaxially within said outer tube, the outer surface of said vaporizing tube being spaced radially inwardly of the inner surface of said outer tube, means for blowing air through said vaporizing tube and the space between said tubes from one end thereof, means for positively depositing a film of liquid fuel on the inner surface of said vaporizing tube on a localized portion thereof adjacent said one end and at a predetermined rate, means independent of air flow for rotating said vaporizing tube at a controlled speed sufficient to cause said liquid fuel film to spread over a substantial portion of the inner surface thereof as a relatively thin film but at a speed not exceeding about twenty revolutions per minute, and means for heating said outer tube whereby to heat said vaporizing tube by radiation to vaporize the fuel film thereon.

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**2,647,568**
**BURNER THROAT**
**Stephen A. Sloan, Darien, Conn., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York**
**Application March 30, 1951, Serial No. 218,298**
**8 Claims. (Cl. 158—76)**

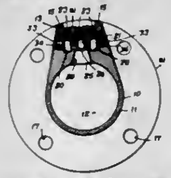
1. A burner having air and fuel admission means and a refractory member having an imperforate annular surface flaring rearwardly to form a burner throat, said throat having a narrow peripheral surface and having an outwardly flared surface extending rearwardly therefrom, said outwardly flared surface being depressed radially beyond said peripheral surface to form an annular ledge adapted to produce eddy currents in the air-fuel mixture flowing thereover, and a plurality of ribs spaced peripherally around said flared surface and extending rearwardly from said peripheral surface to the rearward end of said throat, said ribs having a peripheral surface no portion of which extends radially inward beyond said first peripheral surface and having



sides extending substantially normal to said peripheral surface of said ribs to form a ledge adapted to form eddy currents in the mixture passing thereover.

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**2,647,569**
**RIBBON-TYPE GAS BURNER-UNIT**
**John H. Flynn, New Rochelle, N. Y.**
**Application May 24, 1951, Serial No. 228,095**
**4 Claims. (Cl. 158—116)**



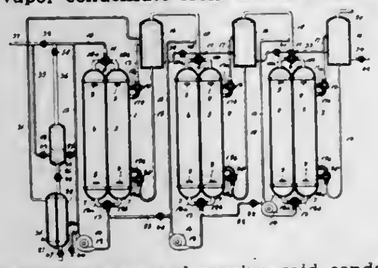
1. A ribbon-type gas burner, comprising a single-piece cast elongated casing having a longitudinal through-passage of which either end may serve as the gas inlet to said casing, a slot and groove in said casing open to the outside of the latter and extending in laterally spaced parallel relation longitudinally of said casing throughout its length, and a restricted orifice in said casing providing communication between inner portions of said slot and groove, said slot being throughout its length in open communication with said through-passage and forming a high-velocity gas outlet, and said groove forming a low-velocity gas outlet; and burner ribbons in the outer portions of said slot and groove, respectively, said slot and groove being so spaced that the flame from the latter will support the flame from the former.

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**2,647,570**
**HEAT-TREATING A FLUENT SUBSTANCE**
**Carl Johan Lockman, Stockholm, Sweden, assignor to Rosenblad Corporation, New York, N. Y., a corporation of New York**
**Application January 21, 1950, Serial No. 139,811**
**In Sweden November 30, 1949**
**6 Claims. (Cl. 159—17)**

6. A multiple stage heat treating system comprising a plurality of heat exchangers each heat exchanger having passages for conducting in heat

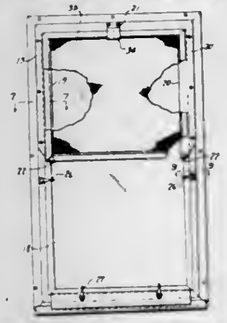
exchange relation a heating medium and a fluent substance tending to deposit scale, and the vapor condensate of which contains scale dissolving components, means for passing said substance through said system from stage to stage, means for passing a vaporized heating medium through the first stage of said system, means for passing flash vapor from said substance as a heating medium through each succeeding stage, means for collecting vapor condensate from at least one of said



succeeding stages, and passing said condensate through a vessel, means for maintaining a predetermined condensate level in said vessel, a connection for passing vaporized heating medium into that vessel beneath that level, a connection above that level to pass vaporized heating medium from said vessel to the first stage of the system, and means to alternate the flow of heating medium and fluent substance from one to the other of adjacent passages of each heat exchanger.

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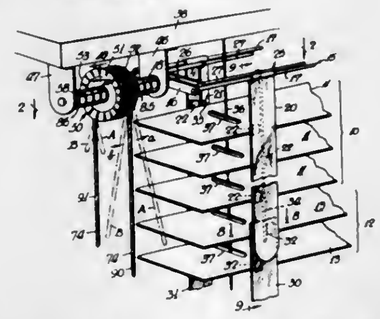
**2,647,571**
**STORM WINDOW AND SCREEN FRAME AND ASSEMBLY**
**Arthur B. Landry, Royal Oak, and Warren H. Martin, Plymouth, Mich., assignors to V-Seal Corporation, Royal Oak, Mich., a corporation of Michigan**
**Application January 16, 1948, Serial No. 2,696**
**3 Claims. (Cl. 160—90)**



1. A combined storm window and screen assembly having in combination, a hollow sheet metal frame of rectangular shape, said frame made of sheet metal folded and doubled upon itself to form on the outer boundary and at the top and sides of the rectangular window frame an overlapping flange, and on the inside boundary of the rectangular frame a window stop flange with an intervening box-like cross section between the two flanges, a panel retaining strip secured on the inside of the frame at each side and along the upper half of the frame to form with the window stop flange, a guide and panel retaining channel, a glass panel including a sash frame with rails slidable in said guide and panel retaining channel to the upper position in the sheet metal frame, a quickly removable glass panel fitted into the lower half of the window frame under the said first-mentioned glass panel when that panel has been slid into place and against the window stop flange thereby supporting the upper panel in the same plane as the lower panel and the lower rail of the upper panel and the upper rail of the lower panel forming meeting rails, movable fastening devices secured to the rectangular frame that can be moved from a position on the said frame to overlap the lower panel to retain the lower panel in position when the same has been set in place in the lower half of the rectangular frame, a clip provided on the inside of the rectangular frame at the top and rests provided at the bottom of the side panel retaining strips, and a window screen panel which can be fitted into the lower half of the window opening when the glass panel is removed, or may be slid into the clip at the top of the frame and supported in the rests for storage, as may also be the lower window panel when taken out and the screen fitted into the lower half of the rectangular window frame.

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**2,647,572**
**VENETIAN BLIND**
**Percival H. Biscoe and Wilmer T. Slater, Jacksonville, Fla.**
**Application January 10, 1950, Serial No. 137,792**
**13 Claims. (Cl. 160—115)**



1. In a Venetian blind, two slat groups at different levels, each of said groups comprising a series of slats supported horizontally in vertically spaced relationship, a single tilt control member, means supporting said control member for movement into any one of two positions, means operable upon manipulation of said tilt control member into one of said positions for tilting the slats of one group without disturbing the slats of the other group, and means operable upon manipulation of said tilt control member into the other of said positions, for tilting the slats of the latter group without disturbing the slats of the other group.

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**2,647,573**
**VENETIAN BLIND TAPE RETAINING PIN**
**Robert W. Meyer, Elyria, Ohio, assignor to The Guarantee Specialty Manufacturing Co., Cleveland, Ohio, a corporation**
**Application June 4, 1951, Serial No. 229,771**
**3 Claims. (Cl. 160—178)**

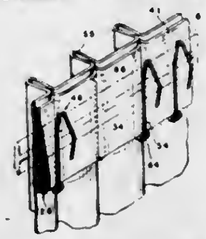


1. In a Venetian blind, in combination, a tape supporting member, having a tape connection portion formed with an opening, a tape having a looped end passing through said opening, a retaining pin seated in said loop, head members at opposite ends of the pin, each head member having a stop for engaging an adjacent edge of the tape connecting portion of the supporting member, and said head members each having a notch to receive an adjacent edge of the tape at said loop.



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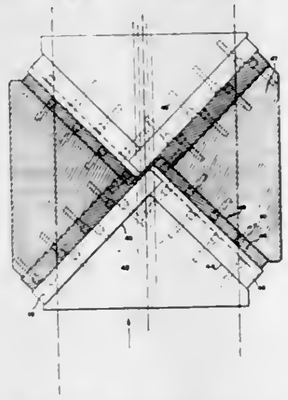
**2,647,574**
**DRAPERY HOOK**
**Paul Levine, Jamaica, N. Y.**
**Application July 29, 1952, Serial No. 301,467**
**6 Claims. (Cl. 160—348)**



1. A supporting and pleating hook for draperies comprising a pair of elongated, juxtapcsed leg elements having a hook-like portion integrally extending therefrom and resiliently joining said leg elements together, both of said leg elements being adapted to be engaged with spaced portions on the back side of a drapery, and means for urging said leg elements together for clampingly maintaining the spaced portions of the drapery together thereby forming a pleat therein.

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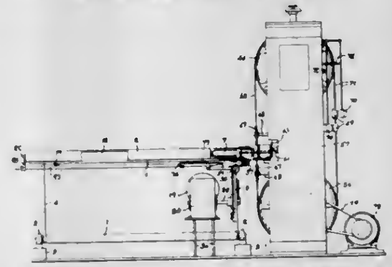
**2,647,575**
**ADJUSTABLE DIE FOR MAKING TRANSFORMER CORE LAMINATIONS**
**Frederick Leroy Patterson, Sharon, Pa.**
**Application June 3, 1947, Serial No. 752,195**
**1 Claim. (Cl. 164—31)**



In a shear press for producing a plurality of identical elongated lamination members for a magnetic core from a length of elongated strip of transformer steel wherein the direction of flux flow is to be longitudinally along said member and with the grain structure of the member, said press being adapted to receive said length of lamination steel strip to form lamination member having similarly shaped pointed ends spaced inwardly from the edges of the strip, with the apices of said points being disposed on opposite sides of the longitudinal center line of the member, a die member for simultaneously forming the laterally and longitudinally offset ends of adjacent members comprising adjustable side guides for slidably engaging the edges of the steel strips, a pair of longitudinally disposed V-shaped female shear die parts, the apices of said female die parts being on opposite sides of the longitudinal center line of the path of travel of the strip to be sheared, a pair of shear blades fixed on the adjacent parallel faces of said female die parts, the adjacent ends of said blades being in spaced parallel, side by side relation, a second pair of shear blades mounted transversely to said first mentioned shear blades, said blades forming V-shaped cutting dies with their apices in offset, spaced, side by side relation, a pair of laterally spaced longitudinally offset V-shaped male die parts, a single offset shear blade secured on one pair of parallel faces of said male die parts, said offset shear blade including a narrow central portion snugly fitting between the spaced parallel ends of the first mentioned shear blades secured on said female parts, the opposed surfaces of said narrow central part being a continuous part of the cutting edges of said offset shear blade, the offset portion of said offset shear blade being a continuation of the transverse surface of the V-shaped male die, a pair of shear blades secured on said other pair of male die surfaces, said last mentioned shear blades engaging in shearing relation with the transverse shear blades of the female die parts, said first and last mentioned transverse shear blades being of different thickness whereby said male and female blades may be interchanged to vary the offset of the apices of the die parts.

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**2,647,576**
**PRODUCTION OF SHORT PAPER ROLLS FROM LONG PAPER ROLLS**
**Nicholas Marcalus, West Englewood, N. J.**
**Application February 16, 1949, Serial No. 76,758**
**15 Claims. (Cl. 164—35)**



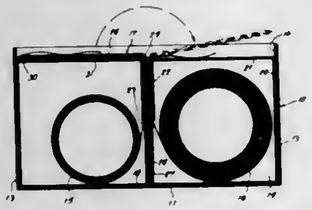
1. A machine for cutting long work into short products and including a cutting tool, a transversely reciprocating work support having a front end reciprocating transversely beyond the front and back of said tool and adjacent the latter, and an intermittently operating feeder provided with long work engaging means having an endless unidirectional path of travel at all times relative to said support for intermittently feeding the long work longitudinally forwardly on said support and synchronized respecting the latter for feeding action only when said support is in front of said tool, whereby to successively thrust short work lengths over said support end for cutting into short products by reciprocation with said support and against said tool.

2,647,577

## DISPENSING CONTAINER FOR PAPER ROLLS

Luisa R. White, Seattle, Wash.

Application November 15, 1949, Serial No. 127,425
2 Claims. (Cl. 164—84.5)



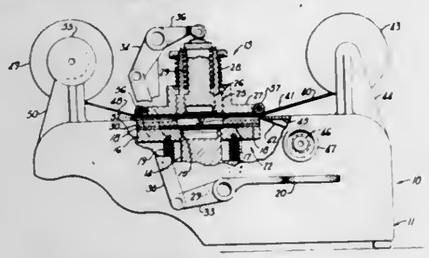
1. A dispensing container for rolls of paper or the like including an elongated outer housing and enclosures for the rolls of paper disposed within the housing, such enclosures having openings through which the paper may pass, the housing being proportioned to receive the enclosures in snug-fit relation, and means for tearing the paper from the rolls including an insert which is received between the adjacent side walls of the enclosures, a hinged flap at the upper end of the insert which is arranged to overlie one or the other of the enclosures, the free longitudinal edge of the hinged flap forming a tearing edge for the paper, the axis of the hinged line being disposed approximately at the level of the upper end of the enclosure.

2,647,578

## APPARATUS FOR CUTTING AND MOUNTING FRAMES OF ADHESIVE-COATED MATERIAL ON CARDS

Roger Connor and Hunter E. Hooe, Athens, Ohio, assignors to The McBee Company, Athens, Ohio, a corporation

Application December 28, 1948, Serial No. 67,713
3 Claims. (Cl. 164—87)



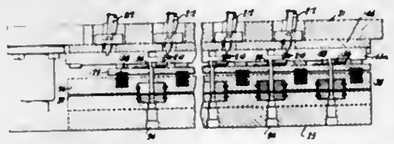
1. In a device of the class described for punching adhesive strip material, a frame, a fixed die plate on the frame, said die plate having a die opening therein, a die above the plate reciprocably mounted on the frame for movement toward and away from the die plate, means for feeding a strip of adhesive material between said die and plate and in spaced relation to each, a stop on the die, said means including a pair of rollers disposed one on either side of the die and in contact with the side of the strip remote from the die plate, said means also including a roller mount carrying the rollers and being reciprocably mounted on the die and resting on said stop, the bottom surfaces of the rollers being disposed beneath the bottom surface of the die when the mount rests on said stop, spring means urging the mount against said stop, and means for moving said die toward and away from said die plate, whereby said rollers and therefore the portion of the strip between the rollers are likewise moved toward and away from said die plate.

2,647,579

## PUNCH PRESS FOR NOTCHING

Orville V. Dutro, La Canada, and James F. Nameth, Los Angeles, Calif., assignors to The McBee Company, Athens, Ohio, a corporation

Application August 22, 1950, Serial No. 180,833
10 Claims. (Cl. 164—112)



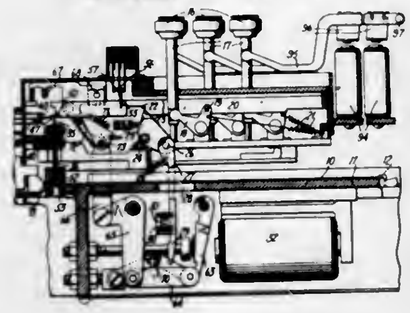
1. A punch press of the character described comprising a stationary male die assembly including a plurality of reciprocable punches, means yieldably urging the punches to inactive positions, slide means slidable to selectively urge the punches to active positions, a reciprocable female die assembly having die openings in registry with the punches, means for reciprocating the female die assembly to punch a web disposed between said assemblies, rotatable ratchet controlled cam means capable of unidirectional rotation to operate the slide means and thereby selectively operate the punches, and other cam means actuated by reciprocation of the female die assembly for rotating said rotatable cam means in increments.

2,647,580

## MACHINE FOR PUNCHING RECORDS

Charles E. Connolly, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application May 13, 1948, Serial No. 26,797
10 Claims. (Cl. 164—113)



1. In a machine of the class described, the combination of a card carriage carrying a card having designations of one form at index point positions in a plurality of columns, column spacing means for said carriage, means comprising sensing pins for sensing each column of designations at a time, punching means, selective means comprising a plurality of keys for shifting related sensing pins to determine the presence of a designation of said one form corresponding to the key operated, and means controlled by said sensing pins and said keys to effect the operation of said punching means to punch a hole at the sensed index point position when it is determined that a sensed designation corresponds to a key operated, and the operation of said column spacing means.

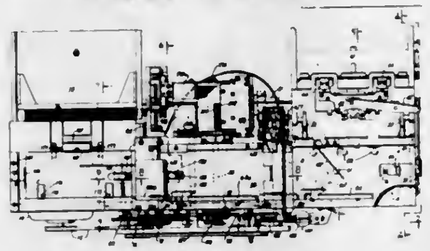


2,647,581

## RECORD CARD PUNCHING MACHINE

Elliott W. Gardinor, Conklin, and Arnold B. Crowell, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application July 6, 1949, Serial No. 103,224
17 Claims. (Cl. 164—113)



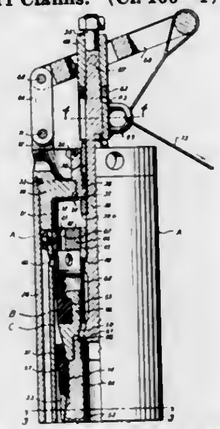
1. In a perforating machine, a record supply hopper, an intermediate station, code punching means at a punching station, means for advancing a record from said hopper along a predetermined path to said intermediate station, said intermediate station and said punching station being in respective sequence along a second path at right angles to said first-named path, means for advancing the record from said intermediate station to said punching station along said second named path, and means for coordinating said advancing means so that while the first record is advanced to and past the punching station a second record is advanced from the hopper to said intermediate station.

2,647,582

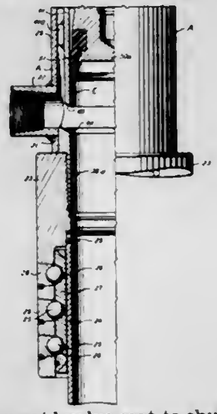
## APPARATUS FOR CEMENTING WELLS

Cicero C. Brown and Ernest L. Potts, Houston, Tex.; said Potts assignor to said Brown

Application February 9, 1949, Serial No. 75,451
11 Claims. (Cl. 166—1)



1. An apparatus for inserting a separation plug behind cement in a well pipe including, a well pipe having an inlet in its upper portion, whereby cement and other fluid may be pumped under pressure into said pipe, a housing defining a chamber above the inlet and communicating with the pipe, a separation plug element disposed within the chamber and out of the direct line of the flow of cement being introduced, a tubular valve element in said housing disposed above said inlet, and annular valve seat in said well pipe below said inlet, means for releasing said valve element



for seating on said valve seat to shut off the direct flow from the inlet to the well pipe, and means for selectively introducing said plug element into the pipe behind the cement and in advance of a following pressure fluid without halting the pumping operation.

2,647,583

## PRESSURE COMPENSATED VALVE DEVICE FOR WELL TOOLS

Bernard Kriegel, San Francisco, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application July 7, 1947, Serial No. 759,321
12 Claims. (Cl. 166—11)



1. A well tool, including tubular means having instrumentalities for attachment to a tubular string to enable the well tool to be lowered in a well bore, said tubular means having an inlet and an outlet, a valve seat in said tubular means between said inlet and outlet, a valve member movable longitudinally within said tubular means to and from engagement with said seat to determine the flow of fluid through said outlet, said valve member having a first fluid pressure actuatable surface facing in one longitudinal direction and subject to the pressure of fluid within said tubular means to tend to hold said valve member engaged with said seat, said valve mem-

ber having a second fluid pressure actuatable surface disposed on the opposite side of said outlet from said seat and subject to fluid pressure to tend to move said valve member from said seat, said valve member having a passage establishing fluid pressure intercommunication between said surfaces when said valve member is in engagement with said seat and communicating with said inlet and tubular string when said valve member is in engagement with said seat, means for preventing the fluid pressure on the outlet side of said seat from acting on said second fluid pressure actuatable surface when said valve member is in engagement with said seat, and means connected to said valve member for effecting its movement to and from engagement with said seat.

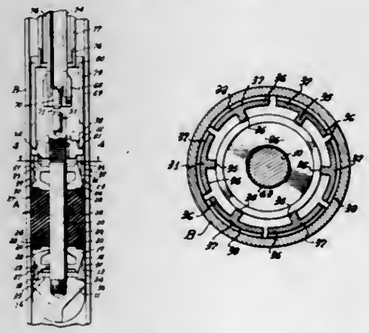
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**2,647,584**

## WELL PACKER AND BRIDGE PLUG FOR WELL BORES

**John R. Baker, Pasadena, and Martin B. Conrad, Huntington Park, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California**

**Application March 11, 1949, Serial No. 80,836**
**15 Claims. (Cl. 166—12)**



1. In a well tool: a body; an expander on said body; and a circumferentially continuous, frangible slip member engageable with said expander, said expander being movable longitudinally with respect to said slip member to exert a lateral force on said slip member to break said slip member into segments.

5. In a well tool: a body; an expander on said body; slip means operatively associated with said expander; an abutment engageable with said slip means and slidable along said body in one direction to shift said slip means along said expander and outwardly into anchoring engagement with a well conduit; and lock means for preventing movement of said abutment relative to said body in the other direction, said lock means comprising a split sleeve having internal teeth engageable with said body, said sleeve also having external cam teeth engageable with companion internal cam teeth on said abutment to urge said sleeve internal teeth laterally inward into engagement with said body.

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**2,647,585**

## HEATER FOR OIL AND OTHER WELLS

**George H. Roberts, Los Angeles, Calif., assignor, by decree of distribution, to Viola Violet Roberts**

**Application February 12, 1949, Serial No. 76,093**
**2 Claims. (Cl. 166—17)**

1. In an apparatus for liquefying a residual deposit in a producing formation and recovering liquid therefrom, a well hole having a casing set in said formation, an expandable packer unit in proximity to said deposit, a controlled source of heated pressure fluid passing downwardly through the packer and connected to said heater to apply heated fluid to said heater whereby the deposit is liquefied in proximity to said heater, a valve housing in said packer, a conduit extending from said valve housing to the surface of the well, an exhaust conduit extending from said valve housing downward to said heater, a first check control valve in said housing which opens automatically under fluid pressure from below,



but which closes said downwardly extending exhaust conduit when pressure is applied to said first mentioned conduit from the surface, a passage communicating between said valve housing and the interior of the packer, a second check control valve in said passage which opens when pressure is applied through said first mentioned conduit to permit heated pressure fluid to flow into said packer and expand the same into engagement with said casing and thereby support the heater in said casing, but closes when pressure is released in said first mentioned conduit, and means for removing liquid from the well as it is reduced by said heater from said deposit.

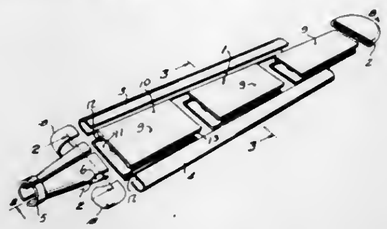
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**2,647,586**

## WIDE HOLLOW STEEL PROPELLER BLADE AND METHOD OF MAKING THE SAME

**Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York**

**Application July 30, 1945, Serial No. 607,697**
**5 Claims. (Cl. 170—159)**



1. A hollow metal propeller blade of welded construction and having at least one longitudinal expansible and deformable strengthening web,



the leading and trailing edge portions of the blade being of relatively light weight to provide a low transverse centrifugal moment for the blade, and said web being outwardly curved and spaced from the edge portion and providing a completed web which is expanded in part and contracted in part after hot shaping the blade to final shape and twist after fabrication.

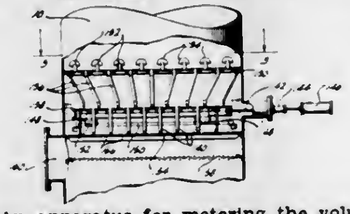
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**2,647,587**

## APPARATUS FOR SOLIDS FLOW CONTROL

**Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California**

**Application June 8, 1951, Serial No. 230,609**
**20 Claims. (Cl. 183—4.2)**



1. An apparatus for metering the volumetric flow of granular solids through a system which comprises a conduit of substantially constant cross-sectional area through which uniform solids flow is desired, an upper stationary tray peripherally supported from the inner walls of said conduit, a plurality of feeder tubes arranged with their inlets opening through and dependent from said upper stationary tray in a regular geometric pattern, a plurality of gas riser tubes supported on said upper stationary tray provided with caps and dispersed uniformly among the inlet openings of said feeder tubes thereon, a lower stationary tray peripherally supported at the inner walls of said conduit in a position below and parallel to said upper stationary tray and provided with a plurality of openings for gas and openings for solids flow therethrough distributed uniformly over its area, an intermediate reciprocable tray supported between said upper and lower stationary trays and parallel thereto, a plurality of charge tubes arranged in a regular geometric pattern on and dependent from said reciprocable tray, a free annular space for gas flow around said reciprocable tray being provided, and motive means for transversely reciprocating said reciprocable tray connected thereto to bring said charge tubes alternately into alignment with said feeder tubes to receive a charge of solids therefrom and subsequently into alignment with the openings of said lower stationary tray to discharge solids therethrough.

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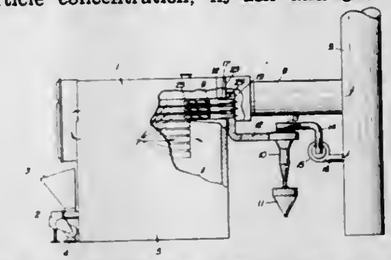
**2,647,588**

## BOILER TUBE FLY ASH COLLECTOR

**Carl E. Miller, Columbus, Ohio, assignor, by mesne assignments, to Bituminous Coal Research, Inc., Pittsburgh, Pa., a corporation of Delaware**

**Application January 16, 1950, Serial No. 138,806**
**3 Claims. (Cl. 183—80)**

1. The combination of, a fire-tube boiler provided with a plurality of spaced fire tubes therein, each of which said tubes is adapted to conduct hot gases therethrough, and which said tubes, during operation of said boiler, are surrounded by a fluid which is to be heated, and a fly-ash collecting system comprising fly-ash and gas separating and concentrating means wholly within each of said tubes, whereby there is provided a relatively clean stream of gas centrally of each of said tubes and a stream of gas high in fly-ash particle concentration adjacent the periphery of each of said tubes, means adjacent the end of each of said tubes for separately conducting said relatively clean stream of gas and said stream of gas high in fly-ash particle concentration, fly-ash and gas separating means external of said tubes, a conduit connecting said external separating means with said means for separately conducting said stream of gas high in fly-ash particle concentration, and means for producing a flow of said stream of gas high in fly-ash particle concentration to said external separating means.



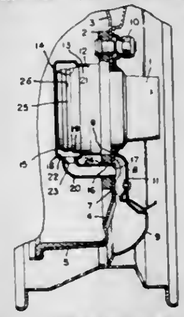
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**2,647,589**

## BRAKE DRUM LUBRICANT DEFLECTOR

**James M. Kerr, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware**

**Application June 12, 1950, Serial No. 167,531**
**6 Claims. (Cl. 184—106)**



1. A wheel hub, brake drum, and lubricant deflector assembly comprising a hub having a fixed radial flange and an annular shoulder between said flange and the inboard end of said hub, a brake drum having a web secured against the outboard side of said flange and a lubricant deflector provided with a lubricant collecting ring having a press fit with said hub and abutting said shoulder and extending beyond and encircling said inboard end of said hub and a lubricant conducting conduit leading from said ring through said flange and web.

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**2,647,590**

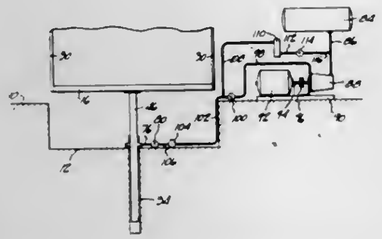
## HYDRAULIC ELEVATOR

**Carl A. Anderson, Jr., St. Joseph, Mich.**

**Application February 16, 1951, Serial No. 211,387**
**14 Claims. (Cl. 187—29)**

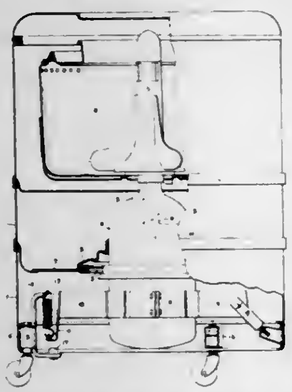
1. An hydraulic elevator comprising an hydraulic unit adapted to operate at high pressure and including a cylinder and a plunger fitting in said cylinder with clearance, an elevator member supported by said hydraulic unit to be elevated and lowered thereby, rigid vertical guides, slide members on said elevator member and engaging

said guide to prevent lateral displacement of said elevator member, an hydraulic system communicating with said hydraulic unit and including a reservoir, a high pressure pump for supplying liquid from said reservoir to said hydraulic unit,



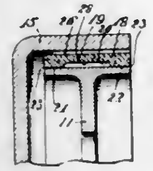
a check valve in said system for preventing liquid flow from said hydraulic unit to said pump, and a valve controlled by-pass for accommodating flow of liquid from said hydraulic unit to said reservoir.

2,647,591
**VIBRATION DAMPENER**
**James F. Young, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**
**Application October 1, 1949, Serial No. 119,186**
**2 Claims. (Cl. 188—1)**



1. In a system having a generally vertical rotatable shaft with an unbalanced body fixed to its upper end, drive means constructed and arranged to rotate said shaft at a predetermined normal operating speed, a casing for said drive means disposed below said unbalanced body and providing journaling means for said shaft, and means resiliently supporting said drive means casing and said shaft to locate a first vibrational node at the first critical speed of shaft rotation a substantial distance below a second node at the normal operating speed; the improvement in means for damping shaft vibration at said first critical speed to a greater extent than at said operating speed, comprising a fixed frame spaced radially from said drive means casing, a plurality of rigid arms attached to said casing and extending toward said frame, friction dampeners carried by said frame and each engaging one of said rigid arms, said frame providing pivot means on which said dampeners are mounted for rotation upon vertical movement of said arms thereby to minimize damping of the vertical component of vibration, each of said dampeners being positioned substantially symmetrically with respect to a line between its pivot means and said second node, and the acute angle between said line and said shaft being at least forty-five degrees.

2,647,592
**NONSQUEALING BRAKE ASSEMBLY**
**Sydney G. Tilden, Stewart Manor, N. Y., assignor to The Permafuse Corp., a corporation of New York**
**Application December 17, 1948, Serial No. 65,796**
**1 Claim. (Cl. 188—261)**



In a brake assembly having a brake shoe and a drum, the combination of an arcuate friction material segment of a hard rigid material of uniform density having an outer smooth unbroken convex surface adapted for faying relationship with the inner concave surface of said brake drum, said segment having a grooved portion at its inner concave surface with the balance of said concave surface adapted for faying relationship with the outer convex surface of said brake shoe, said grooved portion extending uninterruptedly longitudinally the length of the segment and being symmetrically disposed about the longitudinal centerline of the segment, the depth of the said groove being uniform longitudinally the length and transversely across the width of said segment and being between .025" and .050", and the width of the said groove being between 40% and 50% of the width of the segment, the said segment being adapted to be supported by said brake shoe at the ungrooved portions and the surface of the grooved portion being spatially separated from and entirely unsupported by the brake shoe, the said surface of said grooved portion forming a space between the said brake shoe and the said friction material segment, of substantially rectangular shape adapted to permit that surface of the said grooved portion to flex towards the said brake shoe when said segment is forced against the said brake drum by the brake shoe, and means for attaching the said segment to the said brake shoe.

2,647,593
**ADJUSTABLE FENCE POST ANCHORING MEANS**
**James H. Holman, Scottsdale, Ariz.**
**Original application December 6, 1948, Serial No. 63,676. Divided and this application March 29, 1951, Serial No. 218,172**
**3 Claims. (Cl. 189—29)**

1. In a fence post structure, the combination of a stationary base secured to the ground and including spaced upper and lower plates, the upper plate of said base being provided with an opening, a disc rotatably positioned between said

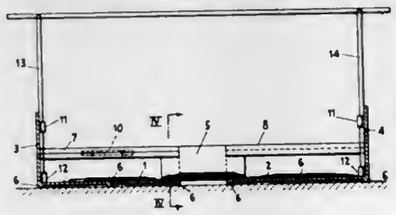


plates, an upright standard secured to said disc and projecting upwardly through said opening, means locking said disc against rotation, and an anchoring stake extending downwardly through



the lower plate of said base into the ground and provided at the upper end thereof with a convex head, said head engaging the underside of said disc to provide an end thrust bearing therefor.

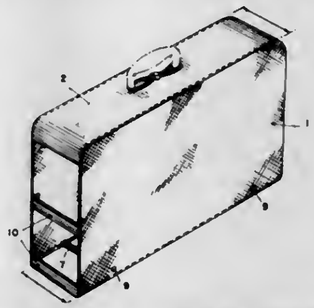
2,647,594
**COLLAPSIBLE TRUNK**
**Ernst Lützelschwab, Basel, Switzerland**
**Application April 30, 1948, Serial No. 24,343**
**2 Claims. (Cl. 190—2)**



1. A collapsible trunk comprising two trough shaped main parts, the side wall meeting edges of one of said parts being provided with rails having tongues and the side wall meeting edges of the other of said parts being provided with rails having complementary grooves, said main parts, by mating engagement of said tongue and groove rails being interfittable when used as a trunk, said main parts being separable and capable of being aligned, in which position they are useable as a bed, at least one trough shaped intermediate piece insertable between said main parts and being relatively slidable therewithin for longitudinal adjustment of said main parts, the upturned sides of said intermediate piece having notched corners which engage under and between the ends of said rails, when said parts are aligned and spaced apart, so as to increase the length of the structure a distance equal to the distance between said corner notches, a plurality of rods, and a plurality of brackets on said main parts for receiving said rods, said rods serving as supporting rods and clothes hanger rods, when received in said brackets.

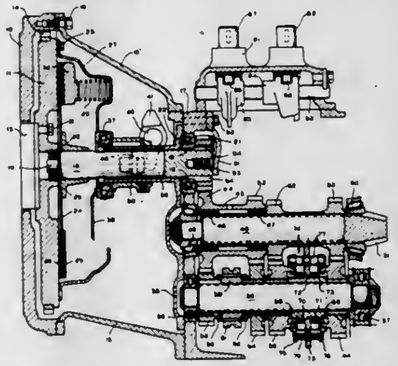
2,647,595
**SUPPLEMENTARY COVER TO PROTECT LUGGAGE**
**Irving J. Meyers, Richmond, Va.**
**Application February 26, 1951, Serial No. 212,798**
**4 Claims. (Cl. 190—26)**

1. A luggage cover for protecting the top and sides of an article of luggage, comprising two panel portions each matching in size and shape the opposite respective sides of a piece of luggage, top cover means to protect the top of the piece of luggage extending between and joining upper edges of said panel portions and including elastically stretchable material, said top cover means having an opening through which a luggage handle may extend, said top cover means



being entirely of sheet material and permanently secured to said panel portions, and bottom securing means comprising a plurality of spaced straps, one end of each of which is secured to a panel adjacent a lower edge thereof and which straps are releasably attachable to the opposite panel.

2,647,596
**CLUTCH CONSTRUCTION**
**Charles A. Cook, Jackson, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
**Application December 28, 1951, Serial No. 263,727**
**2 Claims. (Cl. 192—3.5)**



1. For use with drive means comprising, a flywheel, a flywheel housing, a clutch housing secured to the flywheel housing, the clutch housing having an opening at the upper end thereof, a transmission housing secured to the clutch housing, a drive shaft extending through the clutch housing, means journaling the drive shaft at one end in the flywheel and at the other end thereof in the transmission housing, the drive shaft having an enlarged gear portion lying within the transmission housing, a clutch mechanism within the clutch housing for selectively effecting a driving connection between the flywheel and the drive shaft, openings formed in the enlarged gear portion, a central tapped opening formed in the drive shaft, the combination of means for withdrawing the drive shaft from its journaled positions comprising pin members disposed through the openings in the enlarged gear portion in engagement with the adjacent journaling means,

a washer disposed across the projecting ends of said pin members, a bolt disposed through said washer adapted when threaded into the tapped opening in the drive shaft to pull the drive shaft from its journaled positions, and the drive shaft when withdrawn from its journaled positions being selectively manually movable axially within the transmission housing to provide for the withdrawal of the drive shaft from driving engagement with the clutch mechanism thus freeing the latter for withdrawal from the clutch housing without requiring the transmission housing to be demounted from the clutch housing.

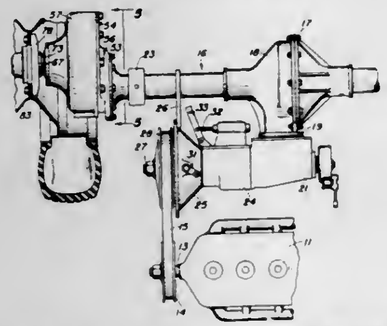
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2,647,597

## VEHICLE DRIVE MECHANISM

**Beverly W. Keese, Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio**

**Application June 19, 1947, Serial No. 755,650**
**2 Claims. (Cl. 192—4)**



2. In a drive axle assembly, an axle housing comprising an enlarged center section provided with an opening, a rotatable pinion shaft journalled on said axle housing and projecting through said opening, a variable speed transmission housing having an end wall opening and an output shaft projecting through said end wall opening at right angles to said pinion shaft, a transfer gear housing separate from said transmission housing having a first opening aligned with said axle housing opening to receive said pinion shaft and having a second opening to receive said transmission output shaft, said transmission output shaft passing entirely through said transfer gear housing and being journalled in a wall of said transfer gear housing opposite said second opening, gearing in said transfer gear housing interconnecting the transmission output shaft and the pinion shaft, means rigidly but removably securing said transfer gear housing to said axle housing, and means rigidly but removably securing said transfer gear housing to said transmission housing to provide a rigid assembly.

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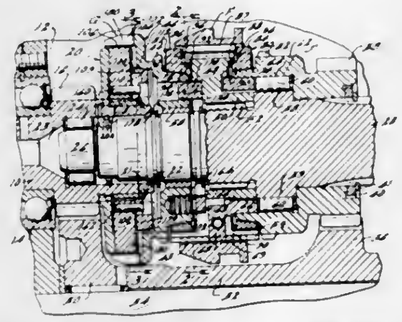
2,647,598

## POWER TRANSMISSION AND CHANGE SPEED CLUTCH MECHANISM THEREFOR

**Teno Iavelli, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**

**Application November 4, 1949, Serial No. 125,574**
**8 Claims. (Cl. 192—48)**

1. In a power transmission, driving means, driven means, a freely rotatable shell member coaxial with said driving and driven means and adapted to be drivingly connected with the latter, centrifugal pawl means operable to drivingly connect said shell member and said driving means, a pawl blocker ring journalled by said shell member for frictional drive therewith and adapted for drive connection with said pawl means, and a plurality of coil compression springs



operable upon said shell for energizing said friction drive between said ring and shell member, said ring being intermediate said shell member and pawl means and said pawl means taking the thrust reaction of said springs.

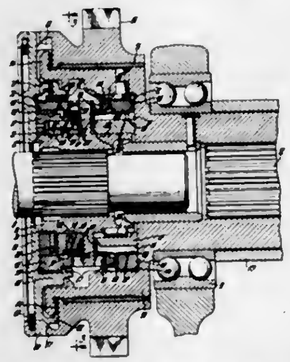
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2,647,599

## OVERRUNNING CLUTCH

**John E. Storer, Jr., and William G. Livezey, Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application September 5, 1950, Serial No. 183,162**
**7 Claims. (Cl. 192—48)**



7. In an overrunning clutch for at times transmitting torque from a driving to a driven shaft axially aligned therewith, said clutch comprising an element adapted to be rigidly secured on one of said shafts, a first member, a second member adapted to be rigidly secured on the other one of said shafts, said first member and said element having spaced mutually engageable driving portions for transmitting power between said first member and said element, said driving portions being arranged so that said first member and said element are rotatable relative to each other a limited amount, said first and second members having jaw clutch teeth in the confronting faces thereof, said first member being movable axially relative to said element between an engaged position in which the teeth on said first member are in engagement with the teeth on said second member and a disengaged position in which the teeth on said first member are out of engagement with the teeth on said second member, means responsive to rotative movement of said element relative to said first member in a selected direction for moving said first member axially from said disengaged position to said engaged position, means responsive to rotative movement of said second member relative to said first member in said selected direction for moving first member axially from said engaged to said disengaged position, a rocker pivotally mounted on one of said members and movable between a first and a second position, said rocker and the one of said members other than the one on which said rocker is mounted having cooperating portions which engage when and only when said rocker is substantially in its second position and said first member is substantially in its disengaged position, said cooperating portions when engaged coupling said first member to said second member, whereby on movement of the portion of said clutch adapted to be secured on said driving shaft forward relative to the portion of said clutch adapted to be secured on the driven shaft there is movement between said first member and said element in said selected direction, means responsive to rotative movement of the portion of said clutch adapted to be secured on said driving shaft forward relative to the portion of said clutch adapted to be secured on the driven shaft for moving said rocker to its second position, said means comprising an arm supported on the member on which said rocker is pivoted and frictionally engaging the other one of said members, and a spring yieldingly resisting initial movement only of said first member axially from a selected end of its range of movement.



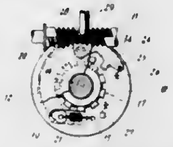
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2,647,600

## OVERLOAD RELEASE DEVICE

**Walter A. Anderson, Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware**

**Application October 13, 1951, Serial No. 251,175**
**6 Claims. (Cl. 192—56)**



1. A positive drive overload release clutch comprising a toothed driving member, a driven member, a floating pivot carried by said driven member, a tooth carrying pawl mounted upon said floating pivot, resilient means urging said pivot away from the teeth of said driving member, a relatively light spring urging said pawl about said pivot in a direction to engage the tooth thereof with the teeth of said driving member, means operable upon a predetermined load being imposed upon said driven member to move said pivot toward the teeth of said driving member, and means on said driven member operable upon movement of said pivot toward the teeth of the driving member to engage said pawl and rock it about said pivot in a direction to move the tooth said pawl out of driving engagement with said toothed driving member.

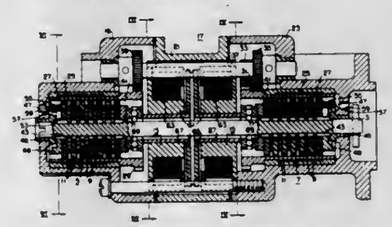
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2,647,601

## ELECTROMAGNETICALLY OPERATED FRICTION CLUTCH

**Franklin S. Malick, Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application June 10, 1950, Serial No. 167,394**
**3 Claims. (Cl. 192—84)**



1. In a friction clutch, the combination of, a substantially closed stationary housing, an internally splined clutch barrel rotatably mounted in said housing, an externally splined shaft rotatably mounted in said housing concentrically of said barrel, a plurality of discs alternately splined to said shaft and said barrel, a thrust member having an opening therethrough fitted over said shaft and threaded into the end of said barrel, said thrust member having a radial slot through the outer peripheral edge thereof into said opening, a threaded expansion member fitted into said slot in a direction paralleling the axis of said shaft, said housing having an opening therethrough aligned with said threaded member in one angular position thereof to receive therethrough an operating member for said threaded member, means for rotating said barrel, an electromagnet having a core structure stationarily supported in said housing and an armature, a tubular member slidably supported through said core structure and concentrically disposed of said shaft, one end of said tubular member terminating adjacent the end of said plurality of discs opposite from said thrust member, a thrust bearing disposed between said one end of said tubular member and said plurality of discs, means securing said armature to the other end of said tubular member in spaced relation with said core structure to define an airgap axially of said shaft, said housing having an opening at a side of said airgap and aligned therewith for receiving therethrough a feeler gauge insertable into the side of said airgap for measuring the size of said airgap.

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2,647,602

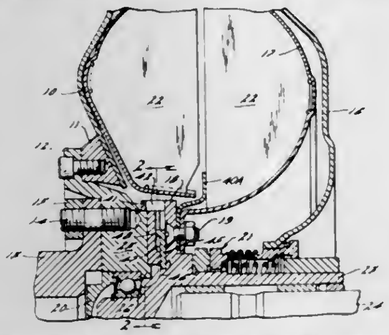
## SYNCHRONIZED CENTRIFUGAL CLUTCH

**Edwin R. Maurer, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**

**Original application February 19, 1945, Serial No. 578,631. Divided and this application July 24, 1948, Serial No. 40,566**
**9 Claims. (Cl. 192—105)**

1. A power transmitting clutch mechanism comprising a driving member, a driven member, a centrifugally responsive pawl carried by one of said members, an annular portion on said other member having an opening therein for receiving said pawl at a predetermined rotative speed of said one member and substantially synchronous rotation of said members, intersecting slots on said pawl forming oppositely aligned wings and means for preventing engagement of said pawl in said opening during all asynchronous

rotation of said members comprising a ring having constant frictional drive connection with said other member and having an axially extending



lateral projection substantially paralleling the axis of rotation of said other member adapted for engagement and movement in said pawl slots.

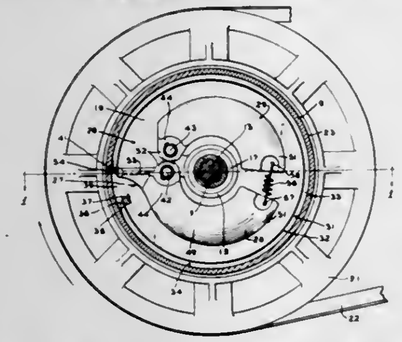
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**2,647,603**

## CENTRIFUGALLY OPERATED TORQUE LIMITING CLUTCH

**Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware**

**Application September 12, 1951, Serial No. 246,179**
**2 Claims. (Cl. 192—105)**



1. In a centrifugally operated torque limiting clutch: the combination of a rotatable driving member; a coaxial driven member including a drum; a pair of parallel pivot pins carried by said driving member remote from its axis of rotation; a pair of arcuate centrifugally operated weights each having a forward portion, pivotally mounted, one on each of said parallel pivot pins, with a central portion extending about the axis of said driving member and terminating in an end portion substantially opposite said forward portion; a radially extending arm formed integral with the forward portion of one of said weights; sector gears formed on the forward portions of each of said weights and held in mesh by said pins; an expansible clutch band for engaging the inner periphery of said drum and having opposite ends; means for anchoring one of said ends to said driving member adjacent said drum; and means for securing the other of said ends to said radially projecting arm on said centrifugally operated weight so that when said driving member exceeds a predetermined speed said weights are moved in unison by centrifugal force to expand said clutch band into engagement with said drum to rotate the same, and when an excessive loading is applied to said driven member said clutch band is moved against the action of said weights to permit slippage between said driving and driven members to thereby limit the torque transmitted through said clutch.

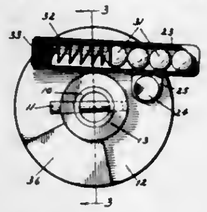
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**2,647,604**

## CENTRIFUGAL CLUTCH WITH QUICK ACTUATOR

**William Carmichael, Knightsville, Ind.**

**Application September 14, 1951, Serial No. 246,590**
**3 Claims. (Cl. 192—105)**



1. A centrifugally operating clutch structure comprising a shaft; a driving member fixed to said shaft; a driven member revolubly mounted on said shaft; a drum carried by said driven member concentric of said shaft and open toward said driving member; an elastic split annular ring having two opposing spaced apart ends and entering said drum; an annular flange extending from and around said ring toward said driving member; a boss on said driving member entering within said flange, centering the ring within said drum; a tubular housing having a closed end; a pin rotatably carried by said driving member eccentrically of the axis of said shaft and having an inner end extending externally of said driving member; said housing being fixed to said pin intermediate its ends; a plurality of weight balls freely carried in said housing; a compression spring within the housing; a spring abutment at the other end of said housing, between which abutment and said balls said spring is compressed to urge said balls toward said closed end; said pin inner end having a cam entering between said ring ends spreading apart said ends upon turning of said pin upon its axis and increasing the external diameter of the ring to effect frictional engagement with said drum, said pin turning being induced by rocking of said housing under centrifugal action through turning of said shaft.

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**2,647,605**

## CHUTE INTAKE DOOR OR HOPPER

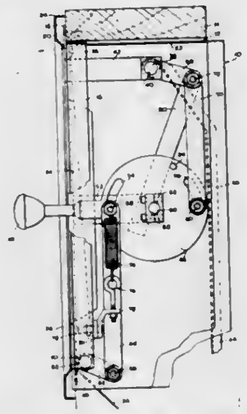
**Clarence M. Wilkinson, Akron, Ohio**

**Application November 16, 1950, Serial No. 196,034**
**5 Claims. (Cl. 193—34)**

1. An intake door for rubbish chute or the like comprising a rectangular frame adapted to be mounted in association with the side of the chute, a rectangular hood secured to the inner edge of the top and sides of the frame and extending to the chute, a bottom secured to the lower edge of the frame sloping inwardly and downwardly into the chute, a hopper door hingedly secured in the frame along the lower edge thereof, a baffle door hingedly secured along its upper edge to the hood in spaced-apart relation to the hopper door, manually operated means for operatively interlocking the doors including a circular cam plate rotatably



supported on a shaft through its center, said cam plate having arcuate slots in diametrically opposed relationship adjacent the peripheral edge thereof, a handle secured to the cam plate for manually rotating the cam plate, a crank arm secured to the hopper door, a link pivotally secured to the crank arm at one end and slidably engaging one cam plate slot at the other end, a second crank arm secured to the baffle door, a second link pivotally secured to a second crank arm at one end and slidably engaging the second cam plate



slot at the other end, a spring secured to the hopper door and anchored to the frame for urging the door into closed position, a locking link pivotally secured to the second crank arm, said link having a notch releasably engaging the cam plate shaft when the baffle door is in closed position, and a pin adjacent the peripheral edge of the cam plate and secured thereto adapted to engage and move the locking link automatically when the cam plate is rotated in a direction to open the baffle door to thereby disengage the notch from the shaft.

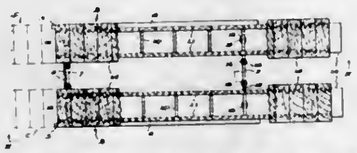
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**2,647,606**

## TRUCK RAMP

**Homer J. Woolslayer and Charles D. Iddings, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**

**Application September 29, 1950, Serial No. 187,398**
**6 Claims. (Cl. 193—41)**



1. A truck ramp comprising a rigid base, a pair of parallel elongated track units supported on said base and extending lengthwise thereof to form tracks for truck wheels, and means movably connecting said units to the base for lateral movement away from each other from transportation positions substantially entirely between the opposite sides of the base to operative positions overhanging said sides, the upper surfaces of said units being inclined lengthwise to raise said wheels when they are rolled up the track units.

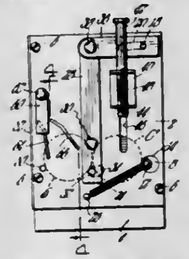
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**2,647,607**

## COIN OPERATING MECHANISM

**Frederick H. Hunter, East McKeesport, Pa.**

**Application July 15, 1950, Serial No. 174,080**
**3 Claims. (Cl. 194—74)**



1. Coin mechanism of the class described comprising in combination, a support provided with a coin slot, separate members mounted on said support for swinging movements, an operating portion carried by one of said members, connections between said members for corresponding movement thereof, coin supports carried by said members for supporting a second coin in said slot, a coin support in said slot cooperating with one of the first-named coin supports to support a first coin, an actuator movable relative to said support having a portion to engage said second coin to cause the same to move said separate members for releasing both coins.

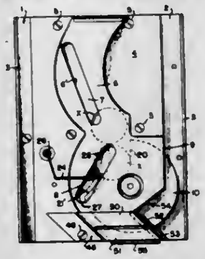
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**2,647,608**

## COIN EJECTOR FOR COIN-OPERATED TIMING MECHANISM

**Arnold R. Dahlberg, Raymond T. Larson, and Richard M. Chapman, Minneapolis, Minn., assignors to The Tonex Company, Minneapolis, Minn., a corporation of Minnesota**

**Original application September 15, 1950, Serial No. 185,084. Divided and this application November 19, 1951, Serial No. 259,390**
**2 Claims. (Cl. 194—97)**

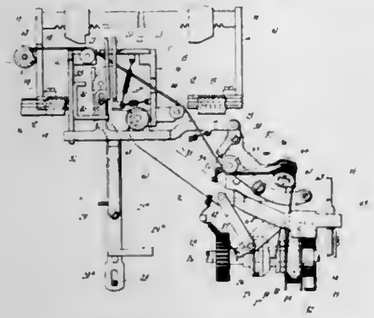


1. A coin ejector for a coin-operated timing mechanism including a frame, a coin chute, a rotary coin carrier journalled in said frame and interposed in said coin chute, said carrier having a coin-receiving notch registrable with the coin chute, and mechanism for rotating said coin carrier, said coin ejector comprising a flexible resilient member mounted at one end to said frame, the free end portion of said member being bifurcated to provide longitudinally parallel inner and outer legs extending tangentially in the direction of rotation of said carrier, the free ends of said legs terminating in aligned inturned inner and outer lips respectively sloping toward said carrier and frame and extending angularly with respect to one side of the notch in said carrier when the carrier is rotated sufficiently to

position said side adjacent said lips, the inner one of said lips overlying a portion of said coin carrier adjacent the periphery thereof, said outer lip being radially outwardly spaced therefrom, said lips being yieldingly biased toward engagement with said carrier and frame respectively, whereby said inner lip will enter the notch in said carrier upon rotation thereof and have camming engagement with a coin contained in the notch to initiate ejecting movements thereto, said ejecting movement being enhanced by engagement of the coin with said outer lip.

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**2,647,609**
**CARRIAGE DRIVE POWER CONTROL**
**Walter T. Sagner, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware**
**Application December 28, 1950, Serial No. 203,068**
**12 Claims. (Cl. 197—66)**



1. In a business machine having a returnable carriage; a normally disabled power-return means for the carriage, means to enable said power-return means, means comprising a part of the power-return means, to tend to disable the power-return means after the latter has been enabled, and means including a control element on the carriage to incapacitate said tending means until the carriage in its power return reaches a certain position.

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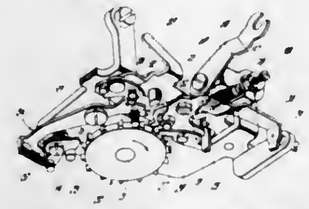
**2,647,610**
**ADJUSTABLE PAPER STOP FOR BUSINESS MACHINES**
**Arthur H. Sharpe, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware**
**Application September 26, 1951, Serial No. 248,373**
**3 Claims. (Cl. 197—140)**



1. For use with a business or like machine having a front-feed carriage, an adjustable paper stop comprising upper and lower guide slot forming members, an elongated flexible element slidably carried by one of said members and positioned within the slot formed between said members, a paper edge stop formed on one end of said flexible element, said stop comprising a first portion bent upwardly from said flexible element so that the free end thereof is resiliently held in engagement with one of the guide slot forming members and a second portion bent downwardly from said flexible element so that the free end of said second portion is resiliently held in engagement with the other of said guide slot forming members, said first portion and said second portion having a combined length greater than the distance between said guide slot forming members, whereby said portions form a barrier between said members.

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**2,647,611**
**CARRIAGE CONTROL AT TABULATION REBOUNDING**
**Harry C. Yaeger, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware**
**Application December 12, 1950, Serial No. 200,470**
**7 Claims. (Cl. 197—176)**



1. In a machine of the class described, having a carriage urged in letter feed direction and an escapement wheel operatively connected with the carriage for advance and reverse movements by the latter, the combination with an escapement means cooperative normally with said escapement wheel for letter feed control, and tabulating means for the carriage comprising tabulating control means, normally inoperatively conditioned tabulating stop means, and means responsive to said control means to operatively condition said tabulating stop means and release said escapement wheel from control of said escapement means, and responsive to tabulating arrest of the carriage by said stop means to restore first said escapement wheel to the control of said escapement means and then to condition inoperatively said tabulating stop means, of normally incapacitated reverse-rotation checking means for said escapement wheel, and means to render said reverse-rotation checking means capacitated incident to the response of said responsive means to said control means, and to render it automatically incapacitated under control of the responsive means after said tabulating stop means becomes inoperatively conditioned.

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**2,647,612**
**DOUGH TRANSFER DEVICE FOR LOAF MOLDING APPARATUS**
**Merlin A. Stickelber, Kansas City, Mo., assignor to Stickelber & Sons, Inc., a corporation of Missouri**
**Application January 26, 1948, Serial No. 4,294**
**13 Claims. (Cl. 198—20)**

1. In a molding machine, a conveyor for sheeted pieces of dough, a conveyor belt traveling transversely of the direction of travel of said first conveyor and receiving pieces of dough discharged crosswise thereof from said first conveyor, a plate-like member extending over said conveyor belt to direct said pieces of dough toward said

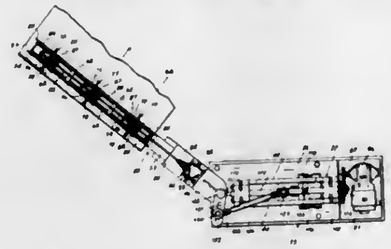


belt and a stop member for limiting movement of said pieces of dough transversely of said belt.



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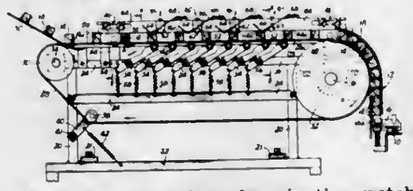
**2,647,613**
**GLASSWARE LEHR LOADER**
**Carl E. Launius and Homer L. Brewer, East St. Louis, Ill.**
**Application August 5, 1949, Serial No. 108,686**
**24 Claims. (Cl. 198—31)**



1. In a machine for transferring a row of items such as bottles from one position to another horizontally displaced from and at angle to the first position; a base, an arm having means to engage and hold the row of items, a vertical shaft mounted on the base, means mounting the arm on the shaft, vertical movement means for raising and lowering the arm on the axis of the shaft, means for swinging the arm about the axis of the shaft, the vertical movement means including means to elevate the arm from its first position and to lower it to its second position, and to change its elevation by making one of said vertical movement components greater than the other, and the swinging means having operating control mechanism to cause swinging of the arm from its first to its second positions.

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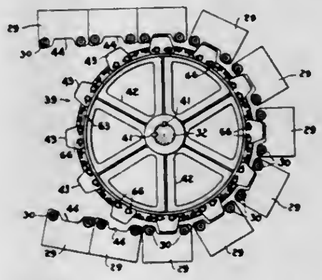
**2,647,614**
**APPARATUS FOR ORIENTING NOTCHED CLEATS**
**Clifford J. MacNamara, Dover, N. J., assignor to Stapling Machines Co., Rockaway, N. J., a corporation of Delaware**
**Application April 19, 1952, Serial No. 283,213**
**9 Claims. (Cl. 198—33)**



1. Apparatus for uniformly orienting notched cleats of generally rectangular cross-section preparatory to feeding said cleats to a box-part-making machine, said apparatus comprising cleat supporting means for supporting a plurality of said cleats aligned in a column generally perpendicular to the long axes of said cleats, at least one cleat turning member mounted adjacent said cleat supporting means at each of three cleat turning stations, each of said cleat turning members being aligned with the notches in said cleats and being spaced from said cleat supporting means by a distance less than the overall thickness of said cleats but more than said thickness less the depth of said notches, and driving means for producing relative movement between said cleat supporting means and said cleat-turning members in a direction generally perpendicular to the long axes of cleats to cause successive engagement of each of said cleat turning members with the adjacent portions of each of the cleats on said cleat supporting means in any orientation other than with notches toward said cleat-turning members to create a couple which rotates said cleats about said axes through an angle of 90° until by such successive incremental rotations, each of said cleats reaches an orientation wherein its notches are toward said cleat turning members.

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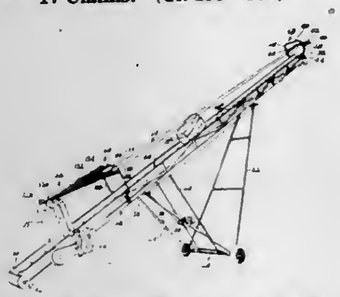
**2,647,615**
**SINTERING MACHINE**
**Martin L. Cover, Allen Park, Mich., assignor to National Steel Corporation, a corporation of Delaware**
**Application January 2, 1948, Serial No. 44**
**15 Claims. (Cl. 198—108)**



15. In combination with a sintering machine for continuously sintering metal bearing material, the sintering machine including elongated upper rail means supporting a plurality of pallets for movement therealong while supporting the material being sintered and elongated lower rail means supporting a plurality of empty pallets for return movement therealong in an opposite direction, the pallets tending to cant and crowd toward one side of the rail means; power actuated sprocket means at one end of the rail means including a pair of sprockets each including a body and a set of sprocket teeth arranged about the periphery of the body, the sprockets being rotatable about a horizontal transverse axis to lift the returning pallets from the lower rail means up through an arc onto the upper rail means and to push the lifted pallets along the upper rail means with the two sets of sprockets being adapted to engage opposite side portions of the pallets as the pallets are moved from the lower up onto the upper rail means, means connecting at least one set of the teeth to the corresponding sprocket body and being constructed and arranged to permit adjusting movement of the one set of teeth relative to the corresponding sprocked body and relative to the other set of teeth in an arc about said axis to reduce canting and crowding of the pallets on the rail means, and releasable locking means operable to lock the movable teeth in a

fixed position on the corresponding sprocket body and releasable to permit such adjusting movement of the teeth relative to the corresponding sprocket body.

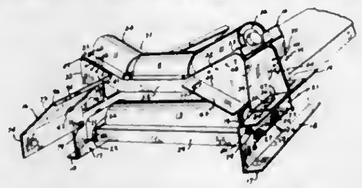
2,647,616
**ARTICLE-HANDLING MACHINE**
**Orville P. Lance, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application October 11, 1951, Serial No. 250,842**
**17 Claims. (Cl. 198—160)**



1. In an elevator for handling bales of the type in which the length of each bale materially exceeds its width and wherein such elevator includes a trough inclined from a lower, bale-receiving end to an upper, bale-discharge end and advancing means movable lengthwise of the trough to move bales from said receiving end to said discharge end, the improvement comprising: a first support mountable at the discharge end of the trough to rise therefrom to a top portion at a height above the advancing means substantially on the order of the width of a bale; a second support mountable on the trough intermediate said receiving and discharge ends to rise above the advancing means to a top portion at a height substantially on the order of the width of a bale; downwardly biased arm means having an end adjacent to the top portion of the second support and positionable to extend lengthwise of the trough to a free end proximate to the receiving end of the trough; means hinging the arm means at said one end to the second support for vertical swinging of the free end upwardly from and downwardly toward a normal position in which said free end is at a height above the advancing means substantially on the order of the width of a bale, said arm means being of such length that its free end when swung upwardly may attain a height above the advancing means substantially on the order of the length of a bale; means for limiting downward swinging of the free end of the arm means to its normal position; and a flexible element secured at one end to the top portion of the first support, running lengthwise of the trough and passing immediately under the top portion of the second support, and extending to the free end of the arm means and being secured to the arm means.

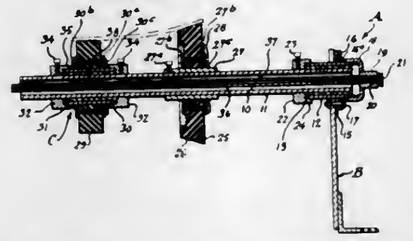
2,647,617
**CONVEYER**
**Samuel J. Spurgeon and Rushton O. Kimbro, Birmingham, Ala.; said Kimbro assignor to said Spurgeon**
**Original application December 31, 1947, Serial No. 795,070. Divided and this application April 4, 1951, Serial No. 219,296**
**6 Claims. (Cl. 198—184)**

5. In belt conveyor mechanism, a lower frame supporting spaced sets of upper and lower belt rolls, a supporting framework for the lower rolls embodying cross members positioned on opposite sides of the lower rolls and secured to the lower frame, an upper framework mounted on said lower frame for supporting the upper belt rolls, other cross members positioned on opposite sides of the upper rolls and secured to the upper framework, roll mounting brackets supporting the upper and lower rolls from their respective cross members, said brackets each having op-



posed arms cooperating with the cross members, a socket on the end of each arm, a bushing for the socket formed of resilient material, a pin passing through each bushing and its associated cross member, spill plates extending between sets of rolls and forming longitudinal bracing therebetween, and means to adjustably connect the ends of the spill plates to the upper and lower framework to compensate for variations in elevations between adjacent sets of rolls.

2,647,618
**IDLER MECHANISM FOR CONVEYER BELTS**
**Charles G. McLachlan, Noranda, Quebec, Canada**
**Application July 17, 1948, Serial No. 39,359**
**6 Claims. (Cl. 198—192)**



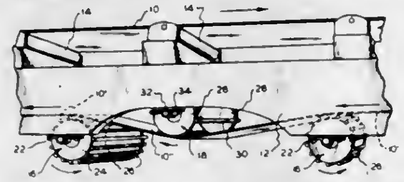
4. In idler mechanism for conveyor belts, the combination of: bearing brackets, a straight hollow shaft journalled in said brackets and extending therebetween, a straight hollow stationary lubricating tube within said hollow shaft being supported by but of a length greater than the latter, means for mounting said tube extending from said brackets and serving to seal the ends of said hollow shaft, a plurality of idlers mounted on said shaft, an inlet in said tube mounting means by which lubricant may be fed under pressure into said tube, said tube being of lesser diameter than said hollow shaft to provide an annular chamber of substantial radial depth extending between said shaft and tube, and at least one port in said tube for communicating lubricant from the tube into said annular chamber.

2,647,619
**BELT CLEANER**
**Loran E. Green, Port Huron, Mich.**
**Application August 7, 1948, Serial No. 43,032**
**1 Claim. (Cl. 198—230)**

In combination with an endless belt conveyor for coal and other material, such as sand or

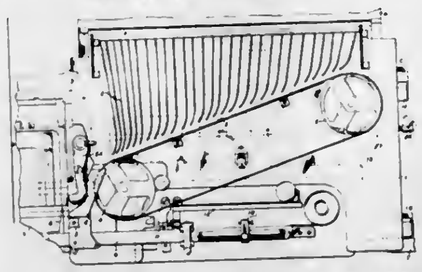


gravel, which tends to become adherent to the returning conveyor surface after the main portion of the load has been discharged at the end of the conveyor by reversing the direction of movement of the belt, of means for cleaning said surface of such adherent materials comprising freely rotatable cylindrical like members supported upon opposite sides of the returning portion of the belt, means mounting said members for free rotation about axes transversely disposed with reference to the direction of travel of said returning belt portion with the surfaces of said belt constituting the sole means for rotation of said members, said members including a pair of surface paring and wiping members engaging with the load support surface of the returning portion of the belt and longitudinally spaced therealong a relatively short distance, said members including a belt agitating member disposed on the opposite side of the returning portion of



the belt from said pair of members and being located between them and engaging with one surface of the belt to deflect the belt toward a plane in which the axes of rotation of said pair of members is located, said members being provided with circumferentially spaced transversely extending ridges with which the surfaces of the belt engage to drive said members, the surfaces of said belt having chordal-like engagement with adjacent ridges of said members during rotation, the circumferential spacing of said ridges upon the agitating member engaging with one surface of said belt being greater than the circumferential spacing of the ridges upon said pair of members engaging the other surface of said belt whereby the belt is agitated by the one member associated with the one surface and the pair of members associated with the other surface has a paring or wiping action upon the surface of the belt and the material adhering thereto, said ridges corresponding in length to the width of the belt.

2,647,620
**TYPOGRAPHICAL COMPOSING MACHINE**
**Paul Hilpman, Garden City, and William J. Bahm, Brooklyn, N. Y., assignors to Mergenthaler Linotype Company, a corporation of New York**
**Application March 9, 1951, Serial No. 214,804**
**10 Claims. (Cl. 199—18)**



1. In a typographical composing machine equipped with a matrix feeler movable across the discharge end of the magazine in the absence of protruding matrices, the combination of an assembling mechanism mounted on a hinged frame for movement from and to its operative position, a lock to hold the frame in its operative position, and a normally active safety device to prevent the release of said lock, said safety device being deactivated by the movement of the matrix feeler across the discharge end of the magazine.

2,647,621
**CONTAINER BLANK TO FORM INTO VARIOUS CONTAINERS**
**Dexter T. Bowden, Marblehead, Mass.**
**Application September 2, 1950, Serial No. 182,944**
**3 Claims. (Cl. 206—44.12)**

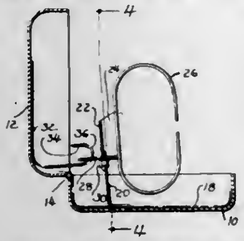


3. A container blank scored to form a back, top, bottom and two sides, each said side embodying an inner side portion and an outer side portion inwardly hinged along a scored line and having a slit that extends longitudinally between them along said scored line, a master front hinged to said top along a scored line, said master front embodying a front closure portion and a supporting portion in scored relationship to said top, said front closure portion having an arcuate slit therein dividing it from said supporting portion and defining a display head portion adapted to extend above said top, said master front also embodying a bottom cover portion hinged to said front closure portion along a scored line and a retainer in scored relationship to said bottom cover portion, similar pairs of locking members extending laterally from the side of the bottom cover portion and the adjacent end of the front closure portion and hinged thereto along scored lines, each pair defining a substantially semi-circular area and separated from each other by a cut extending from and aligned with the scored line separating said bottom cover portion from said front closure portion, said pairs of locking members being adapted to enter said second-named slits when said master front is spaced from said bottom and is folded in the position to form a dispenser.

2,647,622
**BOX WITH PIVOTING ARTICLE DISPLAY**
**Joseph E. Coletta, Hyde Park, Mass., assignor to Farrington Manufacturing Company, a corporation of Massachusetts**
**Application June 12, 1952, Serial No. 293,161**
**3 Claims. (Cl. 206—45.13)**

1. In a display box having base and cover members connected at a hinge line along one side of said box, an article support pivotally mounted inside said box for tilting movement in a plane substantially parallel to said hinge line about a fixed axis and cooperating elements on said ar-

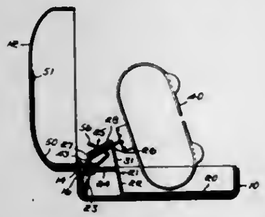
ticle support and at least one of said members for tilting said article support in said plane as



said box is opened by movement of said members about said hinge line.

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**2,647,623**
**BOX WITH ROTATING ARTICLE SUPPORT**
**David Ortendahl, West Roxbury, Mass., assignor to Farrington Manufacturing Company, Boston, Mass., a corporation of Massachusetts**
**Application June 12, 1952, Serial No. 293,162**
**9 Claims. (Cl. 206—45.13)**

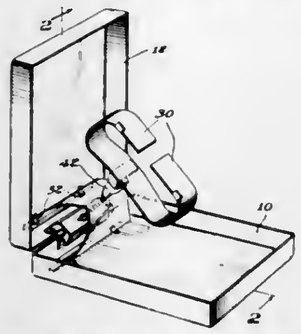


1. In a display box having base and cover members connected together for movement from a closed position with said members in substantially parallel relation to an open position with said members disposed in angularly related planes, an article support mounted inside said box for pivotal movement about an axis extending in a direction normal to the direction of the intersecting line of said planes, and cooperating means on said article support and at least one of said members for pivoting said article support about said axis as said box is opened by movement of said members from said closed position to said open position.

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**2,647,624**
**HINGED BOX WITH MOVING ARTICLE SUPPORT**
**Wendell W. Sedgwick, Boston, Mass., assignor to Farrington Manufacturing Company, Boston, Mass., a corporation of Massachusetts**
**Application June 12, 1952, Serial No. 293,173**
**4 Claims. (Cl. 206—45.13)**

1. A box having a base and a cover and a hinge connecting the back of the base to the back of the cover, an article support extending forwardly in said box from said hinge and being mounted for tilting movement relative to said base to raise its forward end upwardly relative to said base, and for rotating movement about an axis extending in a direction normal to the direction of the axis of said hinge, a lifting element connected to said cover and engaging said support for tilting said support as said cover is opened, said lifting element having a portion movable towards said hinge as said cover is opened and away from said hinge as said cover is closed, and means on said support cooperating with said lifting element portion and responsive to the motion of said lifting element portion towards and away from said hinge for rotating said support in one direction



as it is tilted by said lifting element upon opening said cover and in the opposite direction as said support is returned to untilted position upon closing said cover.

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**2,647,625**
**DISPENSING DEVICE**
**George W. Mason and Bruce D. Gee, Otisville, Mich.**
**Application April 22, 1950, Serial No. 157,464**
**1 Claim. (Cl. 206—53)**



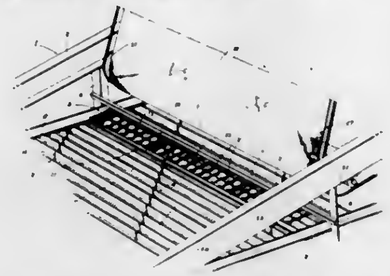
A dispensing spool for nylon fishing line comprising a winding spool formed with flanges on the ends thereof, and on which a line is wound to cover the length of said spool with superimposed layers of a plurality of line coils in side by side relation, and a rubber band of a width equal to the distance between said flanges and covering the top layer of the coils to frictionally hold them in coiled, side-by-side relation, the free end of the line leading between one edge of the rubber band and one of said flanges and being frictionally held by the band to prevent its accidental unwinding but permitting dispensing of the line when the free end of the line is pulled in a direction at an angle to the direction of winding.

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**2,647,626**
**HOP STEM SEPARATOR**
**Edouard Thys, Sacramento, Calif.**
**Application January 26, 1951, Serial No. 208,070**
**2 Claims. (Cl. 209—73)**

1. In a machine for separating detached hops from free stems, an endless open work conveyor arranged to pass hops therethrough, said conveyor having an upper generally horizontal run, a grate relatively close to and above said upper run, said grate comprising a plurality of longitudinal bars spaced to allow the passage of hops and stem lengthwise therebetween, means to feed mixed hops and stems onto the grate from above so that some of such stems tend to rest transversely on and span adjacent grate bars, and elements on the conveyor cooperating with the grate upon longitudinal movement of the conveyor and arranged to engage any stems supported on

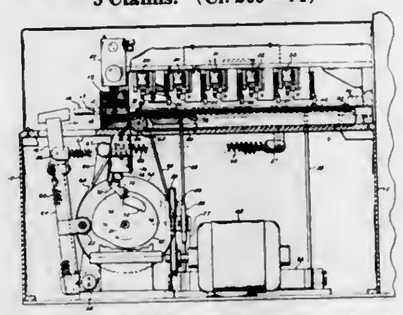




the grate transversely thereof and turn such stems so that they will be deposited on the conveyor in a direction lengthwise thereof.

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**2,647,627**
**GAUGING DEVICE**
**Willis Fay Aller and Anthony J. Page, Dayton, Ohio, assignors to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio**
**Application December 3, 1948, Serial No. 63,282**
**5 Claims. (Cl. 209—74)**

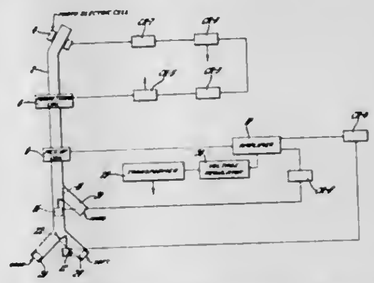


1. Gauging apparatus comprising a gauging station having an article gauging means, feeding means for supplying articles one at a time to the gauging station, a conveyor belt for receiving articles pushed from the gauging station by a supplied article, means for driving the conveyor continuously, a series of selecting stations selectively operable by said gauging means for stopping the travel of the article during the continued travel of the conveyor retaining means extending along opposite sides of the conveyor belt, removing means operable in timed relation with the feeding means and movable laterally of the line of advance of the articles on the belt for pushing the articles off the upper side of the conveying portion of the belt and past said retaining means, and tracks having a gradual downward incline from said conveyor along which the articles can travel by gravity.

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**2,647,628**
**ELECTRONIC HARDNESS SORTER**
**Milton J. Diamond, Saginaw, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application May 28, 1949, Serial No. 95,900**
**4 Claims. (Cl. 209—81)**

1. In means for testing the physical characteristics of a part by the use of magnetic properties thereof, a vertical guide through which the part may fall freely along a predetermined path, switching means adjacent said path operated by the movement of the part thereby, a magnetizing coil adjacent the guide of sufficient strength to support the part from falling, timed switching means interconnecting the first-named switching means with the magnetizng coil, to maintain the same energized for a predetermined period, a pick-up coil mounted below the magnetizing coil surrounding the guide so that when the magnetic field is removed the part is permitted to fall freely therethrough, amplifying means connected to the pick-up coil, a plurality of electronic control tubes, each biased to conduct at different values of voltage connected to the output of the amplifier, sorting means on the path of travel of the part and means for actuating said sorting means connected to each of the electronic control tubes so that the tubes control the operation of the sorting means at two different values of induced and amplified voltage to select parts falling within spaced upper and lower limits.



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**2,647,629**
**FLOTATION OF URANIUM**
**Preston L. Veltman, Severna Park, Md., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**No Drawing. Application August 25, 1950, Serial No. 181,563**
**1 Claim. (Cl. 209—166)**

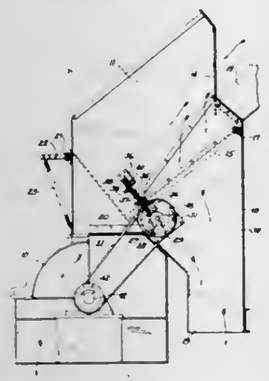
The process of recovering uranium values from ores and like materials which comprises pulping the finely divided material with water, adding a polyethylene oxide-phenol detergent and a sodium salt of at least one fatty acid, and subjecting said pulp to flotation procedure whereby uranium values are concentrated in the froth and may be recovered therefrom.

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**2,647,630**
**ADJUSTABLE SHAKER SCREEN DRIVE MECHANISM**
**Robert W. Kling, Chicago, Ill., assignor to Athey Products Corporation, Chicago, Ill., a corporation of Illinois**
**Application July 28, 1950, Serial No. 176,337**
**1 Claim. (Cl. 209—348)**

In combination, a screen having a pivotal mounting at one end thereof, a housing containing the screen and having side walls, a shaft extending across the screen and through and beyond the walls near the end of the screen opposite that which is pivotally mounted, eccentrics secured to the shaft beyond the side walls, rings surrounding the eccentrics, anti-friction means

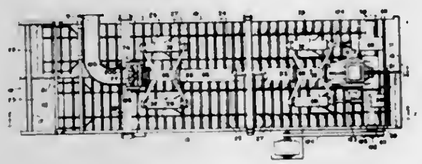
placed between the eccentrics and the rings to make the rings reciprocate in response to rotation of the eccentrics and yet to free the rings from such rotation, a cross bar secured to the screen and extending across it and through the side walls at a position near the shaft, angle members positioned beyond the side walls and each having one leg attached to an end portion of the cross bar and the other leg generally parallel to the face of the screen and engaged by one of the said rings, bearings for the shaft placed between the eccentrics and the walls and secured to said walls through supporting brackets for adjustment



along the supporting brackets and relative to the said other legs of the angle members, whereby a belt driving the shaft may be tightened without moving the rings away from the angle members, projections on the said other legs of the angle members on the faces opposite those engaged by the rings, brackets secured to the outside of the housing walls having portions in spaced and opposed relationship to said other legs and said projections, and springs fitting over the projections and acting between the brackets and the said other legs of the angle members to maintain the angle members in contact with the rings.

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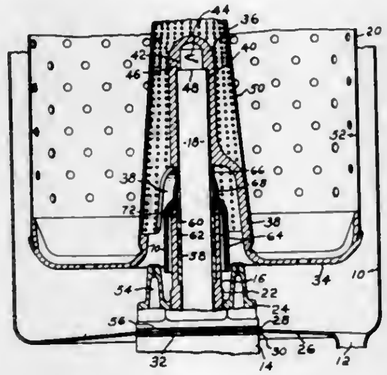
**2,647,631**
**RAKING CLASSIFIER**
**Charles Harold Scott, South Norwalk, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware**
**Continuation of application Serial No. 88,619, April 20, 1949. This application December 28, 1951, Serial No. 263,892**
**23 Claims. (Cl. 209—462)**



9. A classifier having an inclined bottom tank for holding a bath of suspended solids to be classified into one fraction of suspended fine solids overflowed from the deep end of the tank and one fraction of coarse solids emerged from the bath at the shallow end of the tank; a pair of balanced complementally - reciprocable bladed rake-structures having hangers; a rockable shaft placed longitudinally of the tank; and improved means for operating the rake-structures to stimulate such classification by moving submergedly each rake-structure forwardly along the incline of the tank in a sedimented-solids-raking stroke, then away from the bottom whereby raked solids from which the rake-structure so departs can slip down along the bottom, then rearwardly in an elevated liquid-agitating non-raking stroke, and finally toward the bottom to penetrate the layer of solids slipping down the incline of the bottom; which means comprise arms extending from each side of the shaft with one for each hanger, motivating means having dual connections of which one reciprocates the rake-structures and the other rocks the shaft in timed relation with the reciprocation of the rake-structures, and longitudinally slidable support means paralleling the shaft while located between each arm and its dependent hanger.

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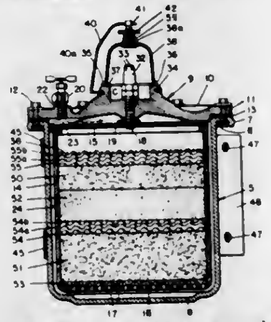
**2,647,632**
**LAUNDRY APPARATUS**
**Charles C. Scheele, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware**
**Application July 3, 1948, Serial No. 36,912**
**3 Claims. (Cl. 210—67)**



1. In a centrifugal extractor, a tub, a drive shaft and surrounding bearing sleeve projecting upwardly into said tub, a circular centrifuge basket mounted for rotation within said tub having an annular bottom disposed in spaced relation around said bearing sleeve, and a hub located within the basket above the bottom and connected to the bottom by a spider, said hub being mounted on the upper end of said shaft beyond said bearing sleeve, a central perforate sleeve in said basket surrounding said hub and spider, nozzle means laterally disposed with respect to said bearing sleeve and directing a stream of rinse water upward through said spider into said perforate sleeve for radial distribution in said basket, said nozzle means being spaced from said bearing sleeve, and a tubular shroud snugly positioned over a portion of said shaft between said bearing sleeve and hub, said shroud having a depending circular skirt surrounding in spaced relation said bearing sleeve and depending between said nozzle means and bearing sleeve to a point below said nozzle means and inwardly spaced therefrom.



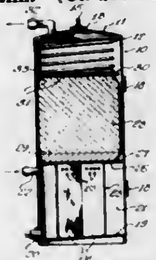
**2,647,633**
**FILTER CARTRIDGE**
**William K. Greene, deceased, late of Ontario, Calif., by Dorothea R. Greene, administratrix, Ontario, Calif.**
**Application May 6, 1948, Serial No. 25,475**
**4 Claims. (Cl. 210—134)**



1. An oil filtering cartridge comprising a casing having an oil inlet through one of its ends and an oil outlet through its opposite end, a plurality of layers of filtering material in the casing between said inlet and outlet, one of said layers being of a granular filtering material, and means for preventing oil passing through the casing from forming defined paths through said last named layer comprising a multiplicity of superimposed sheets of soft woven cloth fabric positioned in loose face-to-face contact with each other on that side of said last named layer towards said inlet.

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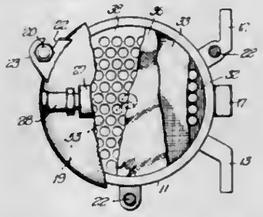
**2,647,634**
**OIL CLEANER FOR INTERNAL-COMBUSTION ENGINES**
**William Alton Barton, Arlington, Tex., assignor to Benjamin G. Barnett, Dallas, Tex.**
**Application September 18, 1950, Serial No. 185,395**
**1 Claim. (Cl. 210—134)**



An oil cleaner for an internal combustion engine in combination with the oil pump thereof, comprising a cylinder having an inclined bottom and a cover in sealing engagement with the top thereof, a drain plug entering through the wall of said cylinder adjacent the lowest portion of said inclined bottom, a baffle disposed on said inclined bottom of said casing of a length equal to substantially one-third the length of said cylinder and having a plurality of radially extending wings, a perforated plate disposed on the top of said baffle and defining in the lower portion of said casing a sediment chamber, the wings of said baffle being co-extensive with said sediment chamber and dividing said chamber into separate compartments, said wings having perforations adjacent their upper ends for distribution throughout said compartments of oil flowing into said sediment chamber, an oil inlet entering said sediment chamber adjacent the top thereof on substantially the same plane with said perforation and having a connection with the oil pump of said engine on the pressure side thereof and adapted to direct oil under pressure against the upper portion of said baffle to reduce the velocity thereof, a filter cartridge supported on said perforated plate, said cartridge having a lower section of fibrous material and an upper contiguous section of fuller's earth, a second perforated plate supported on the top of said filter cartridge, a compression spring having its upper end bearing against said casing cover and its lower end bearing against said second perforated plate to hold said filter cartridge under compression and means entering said casing cover for conveying oil to said engine subsequent to its passage through said filter cartridge.

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**2,647,635**
**FILTER**
**Leland H. Hove, Elmer J. Hankes, and Manly M. Perry, Minneapolis, Minn., assignors to Hove Spark-O-Liner Corporation, Minneapolis, Minn., a corporation of Minnesota**
**Application September 23, 1948, Serial No. 50,774**
**1 Claim. (Cl. 210—140)**



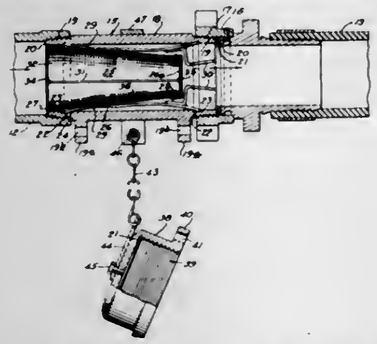
A filter construction for use in the cooling systems of internal combustion engines comprising a housing, a removable cover therefor, the housing having a chamber therein, lugs extending inwardly from a lower portion of the inner face of the walls of the chamber, a perforated plate seated on said lugs forming an inlet chamber in the lower portion of the housing, an inlet passage leading into the central portion of said chamber, a closed porous fabric casing containing finely divided filtering media fitting upon the perforated plate, a second perforated plate fitting in the housing chamber upon the fabric casing, a compression spring engaging the second plate and the underface of the cover to compress the fabric casing and contents between the plates, the cover having an outlet passage therein leading from the central upper portion of the chamber, a bolt extending downwardly from the bottom of the housing, a circular sump bottom member supported on the bolt, a transparent tubular sump wall held by the bottom member against the bottom of the housing, the housing bottom having an opening therein communicating with the sump, the bottom member having a discharge passage therein and a removable closure in the passage.

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**2,647,636**
**UNLOADING HEADER FITTING AND STRAINER**
**Arthur W. Rafferty, Sacramento, Calif.**
**Application September 21, 1948, Serial No. 50,307**
**10 Claims. (Cl. 210—164)**

1. In a device for unloading header fittings, a tubular nipple which is internally recessed ad-

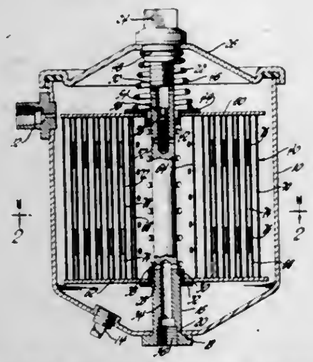
jacent its opposite ends, a frusto-conical strainer cup member comprising a strainer cup having a collar ring at an open end seated slidably closely within the internally recessed tubular nipple, and resilient spring means adjacent each of the



opposite ends exterior of the cup, the resilient spring means having endmost free portions seated within the internal recesses of the nipple, whereby the cap may be stayed against movement in either direction axially of the tubular nipple.

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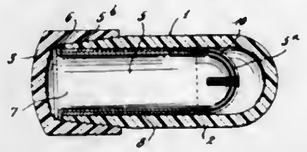
**2,647,637**
**FILTER**
**Jack M. Leet, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application July 16, 1949, Serial No. 105,088**
**7 Claims. (Cl. 210—169)**



4. In a filter having a fluid inlet chamber and a fluid outlet chamber, a pair of substantially parallel filter strips spirally wound with a first passage between said strips and a second passage between the convolutions of said spiral, said inlet chamber being external of said spiral strips, said outlet chamber being disposed substantially at the center of said spiral, a first seal between a first pair of opposed faces of said strips juxtaposed in face to face relation adjacent the center of said spiral, said first passage being defined by said first pair of opposed faces and extending from said first seal to said inlet chamber, a second seal between a second pair of faces of said strips juxtaposed in face to face relationship at the outer end of said spiral, said second passage being defined by said second pair of opposed faces and extending from said second seal to said outlet chamber, one of said pair of strips having one more spiral revolution than the other of said strips between said first and second seals, and means being adapted to commonly seal said passages at the top and bottom edges of said spirally wound strips.

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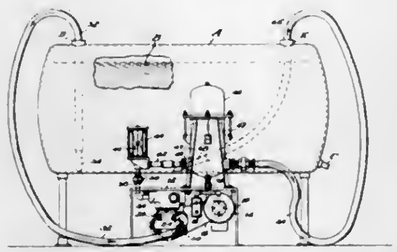
**2,647,638**
**MEANS FOR SEPARATING AND RECOVERING EXCESS MERCURY FROM AMALGAM MIX**
**Louis L. Shore, University Heights, Ohio**
**Application December 30, 1949, Serial No. 135,865**
**8 Claims. (Cl. 210—196)**



1. Means for separating excess mercury from an amalgam mix, said means comprising a container, and a strainer within the container of an appropriate size to receive a quantity of mix suitable for a dental filling and in which the mix is adapted to be placed, the cross-sectional area of the strainer throughout the major portion of its length approximating the internal cross-sectional area of the container, said strainer including an imperforate peripheral wall and a foraminous end wall, the latter being disposed in spaced relation to an end wall of the container thereby to provide a mercury receiving and retaining compartment, the porosity of the foraminous end wall being sufficiently fine to preclude passage of the mercury therethrough except under the influence of artificial force applied thereto, said container being adapted for attachment to a part of a suitable apparatus for imparting movement to said means such as will cause the mercury to be impelled by inertia through said foraminous wall portion into the mercury receiving compartment.

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**2,647,639**
**APPARATUS FOR CLEANING TANKS AND THE LIKE**
**Raymond C. Grein, Rochester, N. Y.**
**Application August 12, 1948, Serial No. 43,823**
**5 Claims. (Cl. 210—207)**



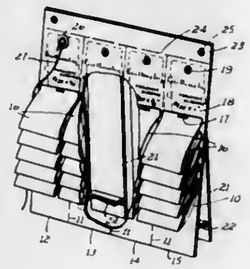
1. Portable apparatus for filtering a liquid, said apparatus comprising a supporting table having downwardly extending leg portions to maintain the table in an elevated position, a liquid pump and a motor for driving said pump suspended from and depending below said table, a filter unit mounted above said table, said filter unit having an upstanding elongated casing and a flange extending outwardly therefrom at an elevation materially above the bottom thereof a



plurality of bracket arms mounted on said table and extending upwardly therefrom in laterally spaced relation to each other, said bracket arms being arranged to receive said casing between them with said flange resting on said bracket arms, conduit means interconnecting said pump and filter unit, and a readily detachable connection in said conduit means between said pump and said filter unit so that when said connection is disconnected said filter unit may be simply lifted off of and out from between said bracket arms and may be transported separately from said table and pump and motor, to render said apparatus more readily portable.

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**2,647,640**
**DISPLAY CARD**
**Richard G. Ellis, Rockford, Ill., assignor to General Cement Mfg. Co., Rockford, Ill., a corporation of Illinois**
**Application January 9, 1947, Serial No. 721,039**
**1 Claim. (Cl. 211—72)**

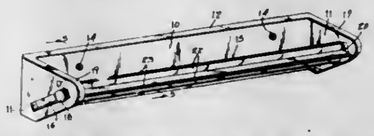


A display card adapted for use interchangeably on a counter or wall as a stand type or pendent type display card for displaying articles mounted thereon in vertical rows, said card comprising a substantially rectangular body of stiff sheet material, having spaced parallel vertical lines of weakening, one between each pair of rows, defining a plurality of rectangular display card sections, one for each row, the card being quickly and easily subdivisible into its separate sections by tearing or cutting along said lines, there being a transversely extending reinforcing end section on at least one side of and integral with the rest of the body of said card joined to the adjacent ends of the separable sections, said transverse end section being marked off from the ends of the separable sections by a weakening line, along which it may be torn or cut off from the rest of the card, and one or more openings in said transverse end section for the hanging of the ensemble, each of said sections also having an opening in the top portion thereof for the hanging of the sections individually, each of said sections also having a foldable easel support on the back thereof unfoldable from a position flat against the back to a position in acute angle relation thereto.

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**2,647,641**
**TOWEL LOCK RACK**
**Samuel Tritt, Bronx, N. Y.**
**Application December 28, 1948, Serial No. 67,639**
**1 Claim. (Cl. 211—89)**

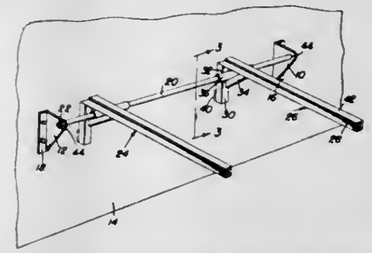
In a towel clamping towel rack, the combination which comprises a back plate having flanges at the edges and ribs intermediate of the edgs, said flanges and ribs extended from the rear surface of the plate for spacing the face of the plate from a wall surface to prevent contact of a towel on the rack with the surface of a wall upon which the rack is positioned, brackets having diagonally positioned slots therein extended from the ends of the plate, said slots being inclined upwardly from the plate and having notches providing shoulders in the upper ends, and a towel holding bar including crossed vanes whereby the bar



forms a cross in cross-section, with sections having flat sides at the ends of the vanes, and having knobs at the ends carried by the brackets with the ends extended through the slots thereof and with the sections having flat sides positioned to engage the edges of the slots whereby the vanes are retained in vertical and horizontal positions, said shoulders in the upper ends of the slots being positioned to retain the bar in the upper parts of the brackets.

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**2,647,642**
**FOLDING RACK**
**John Kosash, Lorain, Ohio, assignor to Lorain Industries, Inc., Lorain, Ohio, a corporation of Ohio**
**Application May 5, 1950, Serial No. 160,251**
**1 Claim. (Cl. 211—100)**



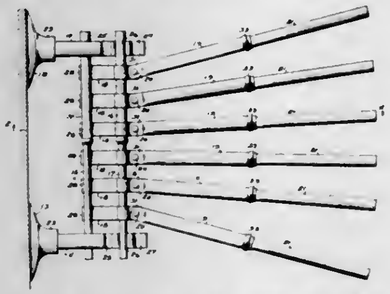
A folding rack comprising a horizontal shaft, means for mounting said shaft on a wall in spaced, parallel relation thereto, an arm, a tube fixed transversely on the arm adjacent to but spaced from one end thereof, said tube being operable on the shaft for pivotally and slidably mounting the arm thereon, said arm being swingable upwardly past the vertical center of its axis and engageable at its other end with the wall for resting by gravity thereagainst in inoperative position, and a relatively short, light leg depending from said one end of the arm at right angles thereto and engageable with the wall for retaining said arm in a horizontal position on the shaft.

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**2,647,643**
**PORTABLE RACK**
**Blanche Dolores Cruikshank, Coshocton, Ohio**
**Application April 15, 1952, Serial No. 282,324**
**5 Claims. (Cl. 211—100)**

2. A portable rack comprising a pair of hangers having vacuum cups thereon, an inner rod mounted on the hangers, an outer rod mounted on the hangers, means on the hangers

for positioning the rods in spaced relation, levers having spaced sockets therein freely positioned



on the rods with the rods nested in the sockets, and arms pivotally mounted on the levers.

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**2,647,644**
**CURTAIN FIXTURE**
**Richard J. Cieslik, Baltimore, Md.**
**Application December 17, 1948, Serial No. 65,862**
**1 Claim. (Cl. 211—105.6)**

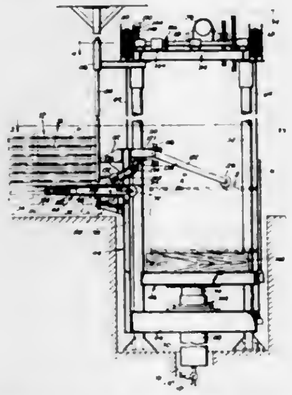


A curtain fixture comprising, a pair of spaced, substantially L-shaped brackets of circular transverse section including mounting flanges on one end, the other end portions of said brackets being in longitudinal alignment and having opposed, substantially conical sockets therein, and an extensible rod removably mounted between the brackets, said rod comprising telescopically connected, relatively slidable and rotatable male and female sections of circular transverse section terminating in substantially conoidal outer end portions engaged in the sockets, said male section further including a reduced inner end portion spaced concentrically from the female section and terminating in a longitudinally grooved cylindrical head slidable and rotatable in a bore in said female section, a coil spring mounted under compression in said bore and engaged with one end of the head for extending the rod for yieldingly engaging the sections in the sockets, and a detent in the female section insertable in the reduced end portion of the male section through the groove in the head and engageable behind said head for preventing separation of the sections after limited relative sliding movement thereof.

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**2,647,645**
**SHEET STACKING MECHANISM**
**Alfred Frank Pierce, Tacoma, Wash., assignor to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington**
**Application June 6, 1949, Serial No. 97,411**
**11 Claims. (Cl. 214—6)**

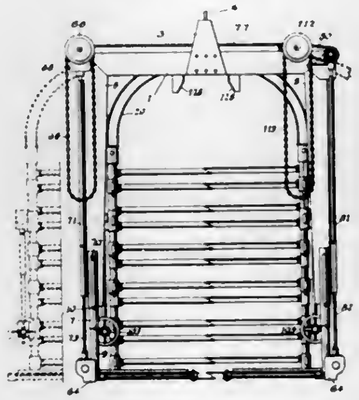
1. Panel stacking apparatus comprising a stacking platform, means operable to deliver panels at depositing locations directly above said platform at various elevations for stacking on said platform, and platform support means operable to adjust automatically the elevation of said platform in relation to the height of the stack of panels on said platform and the elevation of the location for delivery of each particular panel by said delivery means, to dispose the top of the



stack not more than a predetermined small distance below each such panel delivery location irrespective of the elevation thereof.

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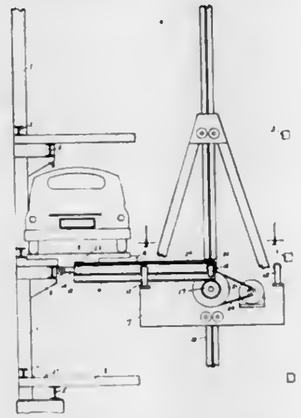
**2,647,646**
**TELESCOPING CARRIER FOR HANDLING BRICKS AND THE LIKE**
**Jacob D. Naillon, Oakland, Calif.**
**Application September 8, 1947, Serial No. 772,772**
**28 Claims. (Cl. 214—6)**



1. A telescoping carrier comprising a plurality of vertically spaced pairs of cooperating clamping elements adapted to clamp a series of vertically spaced bricks simultaneously by clamping engagement with the sides thereof so as to leave the space between the clamping elements free throughout the height of said series of bricks for relative vertical movement of the clamped bricks into contacting positions, means for actuating said clamping elements, and supporting means for said clamping elements comprising relatively movable elements connected to move to predetermined, vertically separated positions and increase the vertical intervals between said bricks when the supporting means is lifted and freely vertically movable toward each other to reduce the vertical intervals between said bricks when lowered to engage a support.

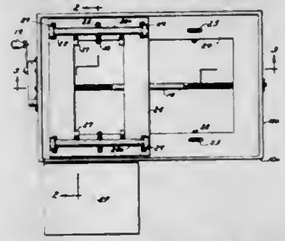


**2,647,647**
**APPARATUS FOR PARKING AUTOMOBILES**
**Mihai Alimanestiano, Beaumont, Tex., assignor of fifty per cent to Cornelius Kroli, Houston, Tex.**
**Application June 3, 1949, Serial No. 97,021**
**19 Claims. (Cl. 214—16.1)**



3. An apparatus useful for parking automotive vehicles, said apparatus comprising an elevator movable along a vertical shaftway, means to raise and lower the elevator along said shaftway, a plurality of superposed vertically spaced shelves disposed with one of each shelf adjacent one side of said shaftway, each shelf including a plurality of elongated members disposed in spaced apart side by side relationship running transverse to said one side of the shelf, the ends of the spaces between said members being open at said one side of the shelf, a conveyor carried by the elevator, said conveyor comprising a plurality of elongated members disposed in spaced apart side by side relationship running in the same direction as said shelf members, the ends of the spaces between said conveyor members being open at the side of the conveyor which is adjacent said one side of each shelf, means to move the conveyor in the direction of the length of said conveyor members between a position in which the conveyor is over the elevator and out of the shelf space and a position in which it is out to the side of the elevator and in the shelf space, said conveyor and shelf members meshing with each other when the conveyor is in the shelf space at the same level as a shelf, and support means tying said conveyor members together, said support means including portions located directly beneath the spaces between said conveyor members, each of said portions having an upper surface located beneath the upper surface of the conveyor members a distance greater than the vertical thickness of that part of the shelf members which meshes with the conveyor members, and said portions being located underneath the shelf members when the conveyor is in full mesh with the shelf, the entire tying support means being located beneath the conveyor members, and the conveyor and said entire tying support means being within the length of the elevator in the direction parallel to the lengths of said shelf members when the conveyor is out of the shelf space and over the elevator.

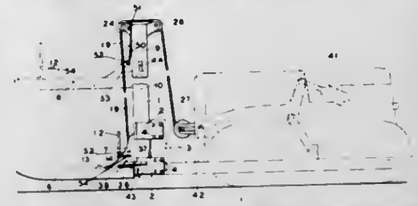
**2,647,648**
**WHEEL AND TIRE MOUNTING APPLIANCE**
**Matt J. Ribarich, Jr., Richmond, Calif.**
**Application March 10, 1948, Serial No. 14,051**
**7 Claims. (Cl. 214—331)**



4. An appliance for mounting tires and the like adapted to be used on roads comprising a base adapted to rest on the road, an elevator movable up and down relatively to said base and provided with an elongated track surface, hand operable means for raising said elevator, a slide supported on said track surface and movable longitudinally on said elevator, and load rotating rollers on opposite sides of said slide with their axes parallel to said longitudinal direction of motion of the slide.

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**2,647,649**
**TRASH MOVING FORK FOR TRACTORS**
**Onno L. Maynard, Portland, Oreg.**
**Application June 28, 1951, Serial No. 234,057**
**3 Claims. (Cl. 214—514)**



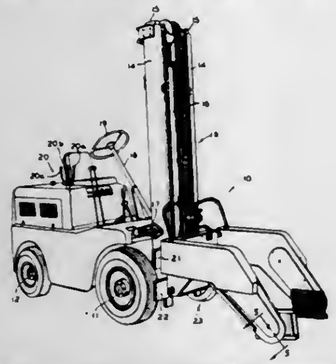
1. Apparatus for moving trash, comprising a frame, a hollow casing from which project a series of forks, flanges projecting from the casing, rollers on the flanges, said rollers operating in the guideways, a plow slidably mounted on the forks, means for locking the plow to the series of forks including triggers, trips on the frame with which the triggers cooperate to release the latches when the forks and plow are elevated, means between the frame and the forks for holding the latter in elevated position, means for elevating the forks and plow to latch releasing position and by continued operation slide the plow outwardly on the forks, means for returning the plow to the rear of the forks while elevated, after the elevating means has been released, and means for freeing the forks and plow from the frame to permit same to drop by gravity to normal position.

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**2,647,650**
**COMBINATION CLAMP AND ROTATING MECHANISM**
**Fred Sherriff, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan**
**Application March 1, 1950, Serial No. 147,004**
**16 Claims. (Cl. 214—652)**

1. For use with an industrial truck having a load supporting carriage, a combination clamp

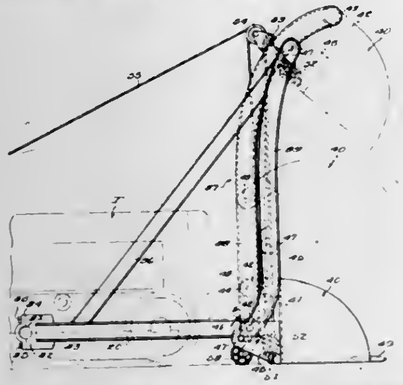
ing and rotating mechanism comprising, a vertical plate member adapted to be supported by said load supporting carriage, a pair of vertical spaced apart parallel relatively horizontally movable clamp arms at opposite sides of said plate member, said clamp arms having a horizontally extending rearward portion and an angularly downwardly extending forward portion, means



for effecting relative horizontal movement of said clamp arms toward and away from each other, a pair of clamp jaws one pivotally mounted about a horizontal axis at each of the forward ends of said clamp arms, the axes of said clamp jaws lying in a horizontal plane which extends below said rearward portions of said clamp arms and means on said clamp arms for rotating at least one of said clamp jaws about its axis.

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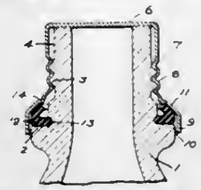
**2,647,651**
**TRACTOR ATTACHMENT FOR CABLE OR HYDRAULIC TIPPLE LOADERS**
**Melvon L. Vincent, Alberhill, Calif.**
**Application January 3, 1951, Serial No. 204,227**
**4 Claims. (Cl. 214—707)**



1. In a tractor mounting means, a horizontally disposed arm adapted to be connected to each side of a tractor, an inclined brace extending upwardly from each of said arms and secured thereto, a first and second vertically disposed track arranged on each side of the tractor and secured to said braces and to said arms, each of said first tracks opening toward the tractor and each of said second tracks opening away from the tractor, a bucket movably connected to said tracks, said bucket including a bottom wall and a back wall, a pair of spaced parallel vertically disposed ears projecting rearwardly from said back wall and secured thereto, a roller connected to each of said ears and riding in said first track, a flange projecting rearwardly from each end of said back wall, a roller connected to each of said flanges and riding in said second track, said second tracks and first tracks being shaped so that the bucket gradually moves into dumping position as it is raised, caster wheels, and means for raising and lowering said bucket, said means comprising a horizontally disposed bar extending between said flanges and secured thereto, a pair of sheaves connected to said bar, a channel member extending between the upper ends of said first tracks and secured thereto, a pair of pulleys supported on said channel member, and a cable trained over said pulleys and over said sheaves and adapted to be connected to a power take-off mechanism on the tractor.

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**2,647,652**
**CLOSURE CAP**
**Hugh W. Sanford, Knoxville, Tenn.**
**Application August 14, 1947, Serial No. 768,665**
**1 Claim. (Cl. 215—40)**

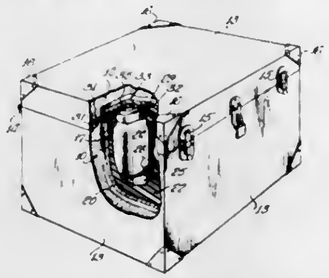


In a container for fluids under pressure, comprising a pouring neck having a fluid discharge opening, integral screw threads on the container spaced from the opening, a closure cap for said opening and having a depending portion surrounding said neck with means thereon engaging the screw threads for adjustably interlocking the cap on the container, said neck having an upwardly facing peripheral abutment shoulder thereon with a crack between said depending portion and the shoulder, a sealing ring overlapping said crack in unbroken contact with said abutment shoulder and said depending portion of the cap in position to be pinched therebetween when the cap is in locked position on the container and in position for sealing the crack against the leakage of fluid pressure therethrough, said sealing ring having an inner surface on the opposite side of the ring from the crack in open communication with the interior of the container and in position for action thereon of the fluid pressure to press the sealing ring over the contact portions of the shoulder and cap on opposite sides of the crack, said sealing ring having an upstanding flange on the outer periphery thereof, said closure cap having a conical portion in position to engage said flange during screw adjustment of the cap on the container, said depending portion having an internal rib on the conical portion projecting inwardly from the surface thereof less than the thickness of the flange on the sealing ring to start the sealing action.

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**2,647,653**
**INSULATED CONTAINER FOR PERISHABLE SUBSTANCES**
**John B. Dube, Dallas, Tex.**
**Application September 18, 1950, Serial No. 185,451**
**1 Claim. (Cl. 220—16)**

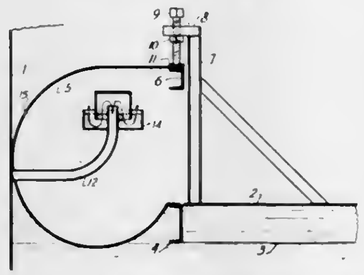
In a container for storing and shipping human blood, side walls and bottom defining an outer chamber, an outer sheathing of metal for said outer chamber, a heat and cold insulated cover in sealing engagement with said walls, an inner chamber having heat and cold insulated walls and spaced inwardly from the walls of said outer chamber to define a sealed void completely surrounding said inner chamber, a covering of foil on the outer surface of said inner chamber, said foil having a reflecting surface directed into said void, a cellular core within said inner chamber composed of heat and cold insulating material



and defining a plurality of cells, each of said cells being adapted to receive a blood containing vessel, a false cover consisting of a sheet composed of the same material as said core and supported on top of said cellular core to seal said cells against ingress of air, and against which said cover is compressedly disposed and means for securing said cover in sealing engagement with said container to preclude exchange of temperature between the interior of said inner chamber and atmosphere.

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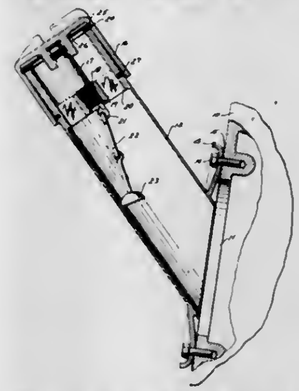
**2,647,654**
**FLOATING ROOF FOR TANKS**
**Alois Cibulka, Highlands, Tex.**
**Application July 3, 1950, Serial No. 171,978**
**2 Claims. (Cl. 220—26)**



1. In a storage tank for liquid having a vertical cylindrical wall and a roof floated upon the liquid in the tank and having its periphery spaced annularly inwardly of the tank wall, a flexible outwardly and downwardly bowed annular sealing member carried by said roof spanning said space and engaging said tank wall, means carried by the roof and cooperable with the sealing member for varying the outward bowing thereof, outlet means on said sealing member in communication with the liquid in the tank below the line of contact and between said member and said tank wall, and means cooperable with said outlet means to close said outlet means against inflow of fluid therethrough.



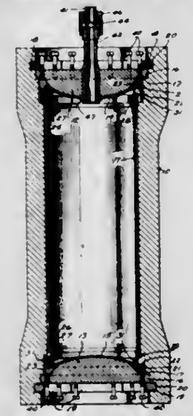
**2,647,655**
**TUBE CLOSURE**
**Ronald R. Robinson, Morton, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California**
**Application November 7, 1951, Serial No. 255,283**
**2 Claims. (Cl. 220—38.5)**



1. A closure for a substantially upright open ended tubular member comprising a cover member of cylindrical shape having one closed end and adapted to fit over the open end of the tubular member to shield the upper outer portion thereof from contamination, an axially extending post in the cover threaded at its free end, a cross brace adjacent the upper end of the tubular member with a threaded opening therein to receive said threaded end for securing the cover in place, a flexible element depending from the end of the post and having an enlarged end incapable of passing through the threaded opening so that upon removal of the cover, the enlarged end engages the cross brace and supports the cover for engagement only with the protected end of the tube.

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**2,647,656**
**FLUID VESSEL**
**Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York**
**Application April 14, 1948, Serial No. 21,081**
**18 Claims. (Cl. 220—46)**



18. A vessel having a body member with spaced end portions and an intermediate portion there-

between, said body member comprising an outer wall with an inner periphery enclosing a chamber, one of said end portions having a opening therein, closure means removably associated with the opening for closing said opening, a liner positioned within the chamber lining and closely fitting said inner periphery of the outer wall, said liner being expansible radially and longitudinally of the chamber and having a greater rate of expansion than the body member in response to temperature within the chamber, a fluid-tight expansion joint between said closure means and the adjacent end of said liner, said joint having two portions, a receiving portion comprising a groove coextensive with said closure and said adjacent end of the liner, the groove decreasing in width as it increases in depth and a received portion comprising a sealing member coextensive with the groove and so shaped as to project into and engage the sides of the groove, the portions of the joint being so associated with the closure and said adjacent end of the liner respectively that the sealing member and groove are brought into increasingly fluid-tight relationship as said liner expands longitudinally, and means for maintaining the closure in position to close said opening, said means comprising a plurality of adjusting screws acting upon said closure so as to move the closure toward said adjacent end of the lining and thereby bring the sealing member and groove of the expansion joint into increasingly fluid-tight relationship as the closure means is moved toward the lining.

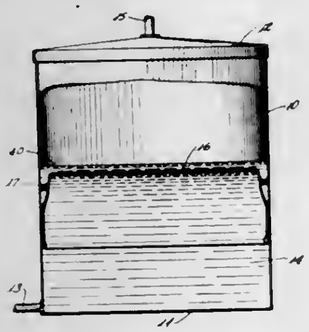
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**2,647,657**

## DIAPHRAGM FOR STORAGE TANKS

**Carroll P. Krupp, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**

**Application January 24, 1950, Serial No. 140,237**
**6 Claims. (Cl. 220—85)**



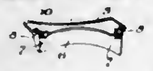
1. A diaphragm for a storage tank comprising a cover portion and an apron portion about said cover portion, said apron portion comprising flexible sheet material having a circumferentially extending reverse fold permanently formed in said material of a shape to hook over the leg of a retaining channel on said tank to position said diaphragm relative to said tank, and said apron portion having a margin of said material outwardly of said fold circumferentially troughed for anchorage in said channel, said troughed margin providing an annular space for caulking material under compression between the sides of the troughed portion.

**2,647,658**

## BRUSH WIPER ATTACHMENT FOR PAINT CANS

**Frederick Sievern, McKeesport, and John L. Fox, Port Vue, Pa., assignors of one-third to Berthold Biesel, Pittsburgh, Pa.**

**Application January 11, 1952, Serial No. 265,972**
**1 Claim. (Cl. 220—90)**



A brush wiper attachment for paint cans, comprising a flexible flat strip of normally arcuate form through not more than 180° about an axis that is transverse to the strip, each end of the strip being turned outwardly to form ears, hooks projecting upwardly from the strip, near its ends, and turned inwardly and downwardly for hooked engagement with a can edge, a wiper bar of generally U-form journaled at its end in the said ears, in position to swing about an axis that extends through both ears, the leg portions of the wiper bar being of such length that the intermediate portion of the bar will extend across a can at a line adjacent to the said ears, when the various parts of the structure are in operative position on the can.

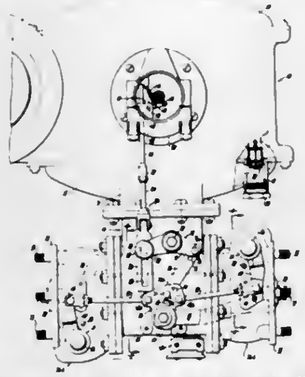
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**2,647,659**

## MANIFOLD WITH MANUALLY ACTUATED VALVES FOR CONTROLLING FLUID FLOW

**William F. Berck, Hayward, Calif., assignor to Ralph N. Brodie Company, Oakland, Calif., a corporation of California**

**Application June 24, 1949, Serial No. 101,035**
**4 Claims. (Cl. 222—14)**



2. A structure of the character described comprising a meter, an outlet manifold having first and second outlets, first and second valves for said first and second outlets, respectively, means normally urging said valves to closed positions, operating means movable to one position to open one of the valves and to another position to open the other of the valves, means for latching the selected valve in open position including means actuated by said operating means and cooperable means actuated by said meter, said latching means and cooperable means being operable to co-engage and to latch the operating means when the latter is actuated to open either of said valves and being further operable to unlatch when a predetermined quantity of fluid has been metered, said latching means and cooperable means being also operable to control either or both of said valves.

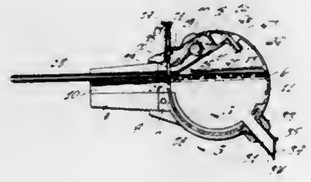


**2,647,660**

## METERING LIQUID DISPENSER AND RECORDER

**Joseph P. Arena, Astoria, N. Y.**

**Application November 3, 1951, Serial No. 254,726**
**7 Claims. (Cl. 222—38)**



1. A metering liquid dispenser adapted to be inserted into or connected to the neck of an open bottle, including a hollow body member, a stopper member rigidly connected to the body member and having an open bore communicating directly with the interior chamber of the body member, a dispensing spout projecting from a portion of said body member remote from the stopper member and also communicating with the chamber within said body member, manually operable means for simultaneously opening communication between the mentioned chamber and the spout and closing communication between the bore in said stopper member and said chamber and vice versa, a metering device enclosed within said body member out of contact with liquid passing into and out of said chamber and having a window in the wall of said body member for visual inspection of said metering device, and a projection upon the manually operated means for operating said metering device during each operative stroke of said manually operated means to record the stroke of said device, wherein the manually operated means includes a slidable shutter having an operating push rod extending to the exterior of said circular body member, a guide within the latter for retaining the shutter in a position in which the end thereof is slidable across the passage in the spout or away from the same and the shutter has an aperture in another portion thereof capable of registering with the bore in the stopper member or being withdrawn from said bore upon sliding movement of said shutter member, a trigger pivoted upon the exterior of said body member, a return spring mounted on the push rod for returning it to original position when the trigger is released, the projection for operating the metering device being fixed on said shutter member, and a link connected at one end to the trigger and at the other end connected to the push rod for depressing it by means of the trigger.

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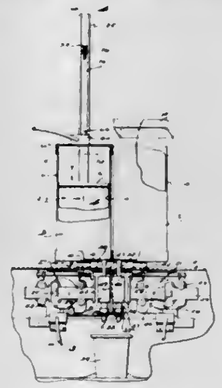
**2,647,661**

## MECHANISM FOR DISPENSING LIQUID FROM A PLURALITY OF SUPPLY CONTAINERS

**Leo M. Harvey, Los Angeles, Calif.**

**Application June 26, 1950, Serial No. 170,352**
**3 Claims. (Cl. 222—68)**

1. In combination, two expendable liquid carrying containers, an individual liquid measuring dispenser handling liquid from each container, a power operated means actuating each dispenser, and control means responsive to liquid in one container switching operation from the dispenser of said container to the dispenser of the other container when a predetermined level of liquid is reached in said first mentioned container, each container including a rigid body and a collapsible liquid carrying bag in the body.



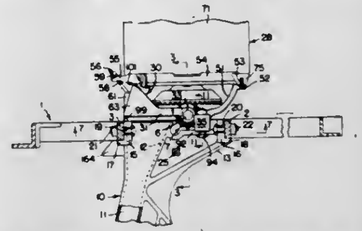
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**2,647,662**

## PLANTER CONSTRUCTED TO ACCOMMODATE VARIOUS TYPES OF HOPPERS

**William P. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**

**Application May 18, 1949, Serial No. 94,022**
**7 Claims. (Cl. 222—185)**



6. In a planter of the type including a frame having spaced-apart frame bars, a seeding mechanism drive shaft carried by said frame and having a pinion mounted on said shaft, and a hopper including a hopper bottom having seeding means including a gear adapted to be driven by said pinion, the improvements comprising a shank having front and rear sections adapted to fit against said frame bars, a seed chute, and an attaching section adapted to receive a hopper-supporting part, said hopper-supporting part provided with a bearing section adapted to receive said shaft and a shank-engaging portion formed complementarily with respect to the support-receiving portion of said shank, said shank-engaging and support-receiving portions having laterally spaced apart, overlapping sections serving to prevent any angular and lateral displacement of the hopper-supporting part relative to the attaching section of said shank, said hopper-supporting part including an extension adapted to receive the hopper in a position so that the seeding mechanism thereof may be driven by the pinion on said seeding shaft when the latter is received in said bearing portion, and means for fixing said hopper-receiving part to said shank with said complementarily formed portions in supporting registration.

**2,647,663**
## DYE FLUID DISPENSING METER
**Harry L. Stafford, Alexandria, Va., assignor to the United States of America as represented by the Secretary of Agriculture**
**Application January 2, 1951, Serial No. 204,058**
**3 Claims. (Cl. 222—477)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. An apparatus for delivering a substantially uniform amount of liquid, by gravity flow, comprising: a chamber connected to and in constant communication with a source of liquid, means providing an intake for air above the level of the liquid in the chamber and an outlet for liquid from the lower portion of the chamber, an upright tube connected at one end to said outlet to receive the liquid and at the other end to delivery conduit means for delivering the substantially uniform amount of liquid, a liquid faucet in the outlet of said delivery conduit, a buoyant shuttle of constant buoyancy in the upright tube, a valve seat in the lower part of the tube, and means providing a stop to limit the extent of upward movement of the shuttle, the shuttle being free to move downwardly with the downward rush of liquid in the upright tube caused upon opening the liquid faucet, and to seat upon the valve seat to arrest the outflow of liquid past the valve seat, the shuttle being elongated longitudinally of the upright tube, the longitudinal surface of the shuttle being corrugated transversely to increase the friction between the shuttle wall and the surrounding by-passing liquid during the descent of the shuttle, the means providing an intake for air and an outlet for liquid being a conduit extending upwardly into the chamber and communicating through the upper face of the chamber with the atmosphere, said conduit having upper perforations permitting ingress of air into the chamber and lower perforations permitting flow of liquid from the chamber into the conduit and thence into the upright tube.

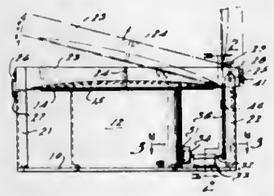
**2,647,664**
## NECKTIE FINISHER
**Clifford C. Palmatier and Fredrick L. Wehren, Bozeman, Mont.**
**Application May 19, 1950, Serial No. 162,924**
**7 Claims. (Cl. 223—82)**

1. A necktie finishing device comprising a hollow elongated former over which one end of a necktie is adapted to be placed, an elongated conduit in said former closed to the interior thereof, means for supplying steam to said conduit, one wall of said former having apertures therein communicating solely with said conduit for the escape of steam from said conduit through the necktie, and means for heating the



interior of said former for minimizing the condensation of steam in said conduit.

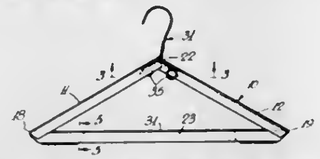
**2,647,665**
## HAT WELL
**Joseph Polite, Royal Oak, Mich.**
**Application September 16, 1952, Serial No. 309,788**
**7 Claims. (Cl. 223—84)**



1. A hat well comprising a base, a pair of semi-ovaliform members having semi-annular rim portions, means pivotally mounting said members on said base for pivotal lateral movement relatively to each other, an annular member, said annular member and said semi-annular rim portions forming upper and lower complementary brim shaping structures engageable with the opposite surfaces of a hat brim, means supporting said annular member for swinging movement from a closed position to an open position relative to said semi-annular rim portions, bell crank means mounted on said base and having a part thereof in abutting relation to a part of each semi-ovaliform member, and link means connecting said bell crank means to said annular members, said link means upon swinging of said annular member to an open position actuating said bell crank means to cause said part thereof to abut said parts of the semi-ovaliform members and thereby pivotally separate the same.

**2,647,666**
## GARMENT HANGER CONSTRUCTION
**Max H. Friedler, Lewiston, Maine**
**Application June 18, 1949, Serial No. 99,973**
**4 Claims. (Cl. 223—89)**

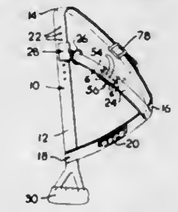
1. In a coat hanger, a body portion of partitubular cardboard stock having integral shoulder branch segments angularly disposed to each other, the segments being joined by a connecting member integral with said segments, the connecting member being incised to permit the adjacent ends of the segments to overlie each other to provide angular disposition of the shoulder



branch segments with respect to each other, and a cross-bar attached to the shoulder segments to form a rigid structure.



**2,647,667**
## GUN CARRIER
**Russell G. Brown and Kenneth E. Brown, Montague, Mich.**
**Application April 26, 1950, Serial No. 158,294**
**2 Claims. (Cl. 224—2)**



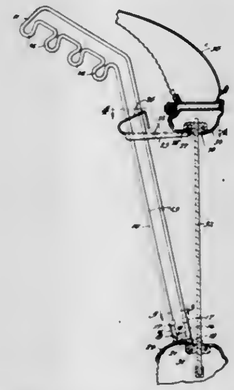
1. In a gun carrier, a strap trained over one shoulder of a wearer and having its front end portion depending diagonally across the front of the torso to a point adjacent the center of the waist line and its rear end portion extending diagonally downward across the back and encircled about the body below the other shoulder to a point of securement to the front end portion above its free end, a second strap having one end connecting with the front end portion of the first strap immediately below the said one shoulder and extending diagonally downward to a point of securement to the rear end portion adjacent the point of its emergence from beneath the said other shoulder, a pocket at the free end of the front end portion to seat the butt of a gun, and means carried intermediate the ends of the second strap to engage about the gun above the trigger mechanism thereof, whereby the barrel of the gun extends diagonally upward and projects above the said other shoulder.

**2,647,668**
## WRIST WATCH STRAP
**Barney R. Nyhagen, New York, N. Y.**
**Application November 25, 1950, Serial No. 197,585**
**2 Claims. (Cl. 224—4)**



1. A strap for wrist watches of the type having bails at the ends thereof forming slots, said strap consisting of upper and lower plies, said upper ply including separate sections disposed in end to end relation and adapted to engage through said slots respectively with the inner end portions of said sections extending under the watch and the free inner ends of said sections arranged in overlapping relation, said lower ply having its outer end portions secured to the outer end portions of said sections respectively outwardly of the engagement of said sections through said slots and said lower ply freely underlying said inner end portions of said sections and said overlapped ends, said sections having interengageable means at the outer ends thereof for connecting the sections together to form a band adapted to encircle the wrist, and said overlapped ends having tongue and slot connection for securing said overlapped ends in coupled relation and for fastening the watch to the strap when said inner end portions of the sections are in engagement with the watch through said slots.

**2,647,669**
## CLOTHES RACK
**Paul F. White, Glen Ellyn, Ill., assignor to Santay Corporation, Chicago, Ill., a corporation of Illinois**
**Application November 23, 1948, Serial No. 61,657**
**5 Claims. (Cl. 224—42.45)**

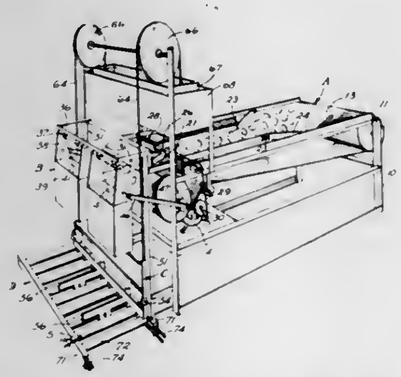


1. A clothes rack for use in the window of a vehicle and the like having a channelled frame comprising an elongated body formed of spaced parallel strips, a foot at the lower end of the body having a downwardly projecting flange at one edge to fit into the channel in the bottom edge of the window frame, a bracket of relatively thin sheet material having spaced openings therein slidably receiving the body strips and to bind thereon when a tilting force is applied to the bracket, the bracket extending outward from the body and having an upwardly projecting flange at its outer end to hook in the channel in the top edge of the window frame, and extensions at the upper ends of the body strips lying at an acute angle to the body with a series of spaced hook receiving loops formed in the extension of one of the strips.

**2,647,670**
## LEMON BOX LOADER
**David C. Cox, Grand Rapids, Mich., assignor to Electric Sorting Machine Company, Grand Rapids, Mich., a corporation of Michigan**
**Application August 11, 1949, Serial No. 109,760**
**12 Claims. (Cl. 226—2)**

7. Apparatus for simultaneously and equally loading divided containers with fragile, discrete

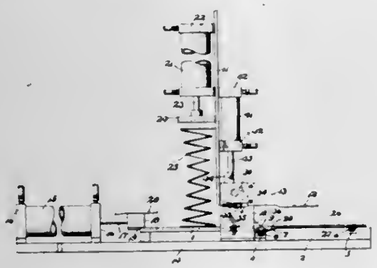
articles comprising support means for a container, a pair of delivery chutes above said support means, a conveyor to deliver articles to said chutes, a divider at the delivery end of said conveyor open to both chutes, laterally spaced guides leading up to said divider, means to drive said conveyor and simultaneously oscillate said guides laterally about the midplane of the con-



veyor to center the line of articles with the divider in order that equal quantities of articles are delivered to each chute, means pivotally suspending said chutes about an axis transverse to motion of the conveyor, means to oscillate said chutes in the line of conveyor motion to distribute the articles evenly in the container, and means to lower said container as it is filled to limit the fall of articles into the container.

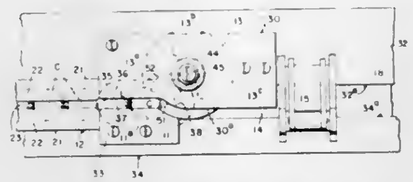
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**2,647,671**
**SPRING LOADING MACHINE**
**James L. McInerney, Grand Rapids, Mich.**
**Application December 15, 1947, Serial No. 791,712**
**6 Claims. (Cl. 226—18)**



4. In a machine of the class described, a pocket opening mechanism comprising, a horizontal base support, spaced vertical standards extending upwardly therefrom each having a horizontal slot therein, a rod extending through the slot, a plate pivotally mounted on said rod extending downwardly and outwardly at an incline to the vertical, spring means between said rod and plate normally turning the plate in a downward direction, and means connected with said rod for moving it in a horizontal direction outwardly in said slots and thereafter turning the plate upwardly against said spring means.

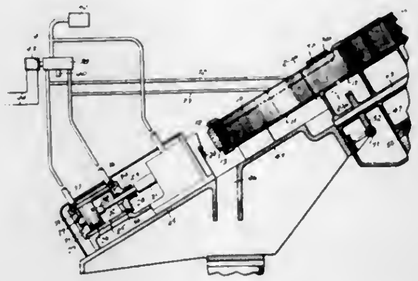
**2,647,672**
**CAP APPLYING APPARATUS**
**Milo Burnell, Decatur, Ill., assignor to Crown Cork Specialty Corporation, Decatur, Ill., a corporation of Illinois**
**Application February 11, 1946, Serial No. 646,840**
**6 Claims. (Cl. 226—81)**



1. In an apparatus of the class described, means to move a container device along a predetermined path, a closure device applying means above said container device moving means to position a slip-type closure device in closing relation upon a container device which is positioned in said path, and means to then rotate one of said devices a predetermined extent with respect to the other and without varying their relative position lengthwise of the container device axis so that they will be in a predetermined circumferential alignment.

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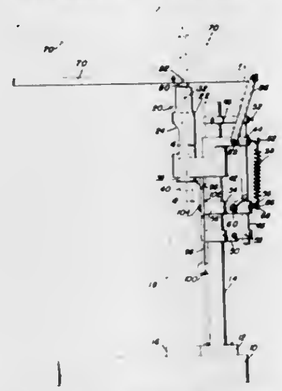
**2,647,673**
**STACK CLAMP**
**Jess G. Galik, Bayside, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del., a corporation of Delaware**
**Application May 5, 1950, Serial No. 160,370**
**1 Claim. (Cl. 226—88.1)**



A machine for dispensing caps from a stack of nested caps, comprising a magazine adapted to contain a stack of said caps and to feed the stack forwardly as caps are removed from the forward end thereof, picker mechanism, fluid pressure means to advance and retract said picker mechanism for engaging and withdrawing the leading cap from said stack, a stack clamp positioned to clamp an intermediate portion of said stack, fluid pressure means to set and release said clamp for alternately clamping and releasing said stack and means actuating both of said fluid pressure means in unison for setting said clamp during the advance of said picker mechanism and releasing said clamp during the retraction of said picker mechanism, said last fluid pressure means being quicker acting than said first fluid pressure means whereby the clamp is set before the picker mechanism contacts said stack and is released when the leading cap is withdrawn from said stack.



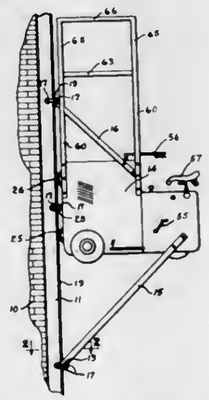
**2,647,674**
**BOTTLE-CORKING MACHINE**
**Battista G. Bausano, Detroit, Mich.**
**Application July 9, 1951, Serial No. 235,723**
**6 Claims. (Cl. 226—89)**



1. A bottle corking machine comprising a base and a vertical shaft mounted thereon, cushioning means on said base adjacent said shaft for supporting the bottom of a bottle, a hollow cork-holding member slidably mounted on said shaft, resilient means urging said cork-holding member downwardly towards and into engagement with the neck of a bottle, cam means for raising said holding member against action of said resilient means, a plunger slidable in said holding member for ejecting a cork and forcing it into the bottle neck, and a handle pivoted to said holding member and operatively connected to said plunger.

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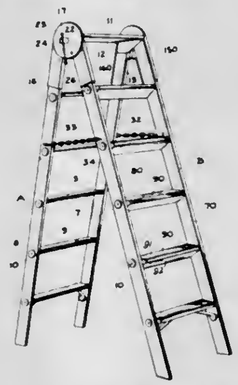
**2,647,675**
**FIRE RESCUE APPARATUS**
**Willis J. Bernett, Kansas City, Mo., assignor to S. A. Galatas, Roy L. Mattox, Frank W. Fisher, and Willis J. Bernett, all of Kansas City, Mo., and J. M. Anderson, Kansas City, Kans., trustees**
**Application June 25, 1947, Serial No. 757,044**
**4 Claims. (Cl. 227—29)**



1. A transportable rescue apparatus, comprising a vehicle having ground wheels, means for moving said vehicle up and down a building wall comprising a rack on said building and vertically spaced toothed wheels on said vehicle cooperating therewith, flanges fixed relative to said rack and projecting laterally at opposite sides thereof, rollers engaging opposite sides of said flanges, means on said vehicle carrying said rollers, said rollers holding said toothed wheels in engagement with said rack, and means on said vehicle for positively driving said toothed wheels in unison.

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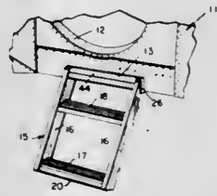
**2,647,676**
**LADDER**
**Peter A. Napiecinski, Wauwatosa, Wis.**
**Application February 15, 1947, Serial No. 728,921**
**2 Claims. (Cl. 228—23)**



1. A ladder comprising sections and a hinge connecting said sections in two alternate positions of use, said hinge being provided with means locking the sections in one position as an extension ladder and in another position as a step ladder, one of said sections being upright in both said positions and having rails and steps obliquely related to said rails to be horizontal in said upright position, the other said section being upright in one position and inverted in the other position and having rails and steps of wedge shaped form having opposite tread surfaces, one said tread surface being of the same angle to its rails as the steps of the section first mentioned whereby to be horizontal when in upright position, the other said tread surface being oblique to said rails at a different angle to be horizontal when said section is in said inverted position.

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**2,647,677**
**AIRPLANE STEP**
**Gerald M. Reed, Santa Monica, Calif.**
**Application April 28, 1951, Serial No. 223,470**
**4 Claims. (Cl. 228—48)**

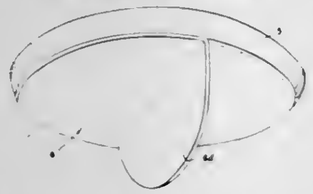


1. An extensible retractable step means adapted to be mounted in a structure such as an airplane, comprising a step assembly, guide means

in said structure slidably receiving said step assembly wholly therein, said guide means including a pair of laterally spaced substantially horizontally disposed parallel guide rails terminating at their outer ends adjacent an outer surface of said structure and a slide stop member mounted wholly within each guide rail for limited movement longitudinally of the rail to a position projecting beyond the outer end of the rail, said step assembly being received between said slide stop members, and interengaging elements at the outer ends of said slide stop members and at the inner end of said step assembly limiting outward movement of said step assembly and permitting pivotal movement thereof relative to said slide stop members.

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**2,647,678**
**HOLDER FOR PAPER PLATES AND THE LIKE**
**Douglas J. Olson, Minneapolis, Minn.**
**Application May 5, 1950, Serial No. 160,129**
**1 Claim. (Cl. 229—1.5)**

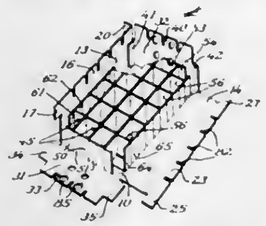


A disposable, paper-like plate comprising a bottom having a generally flat under-surface and raised sides surrounding said bottom, a normally flat, substantially imperforate, reinforcing and gripping member conforming generally to the size and shape of the flat under-surface of the bottom and disposed in underlying relation thereto, said member being divided into two substantially equal parts by a straight crease line extending from edge to edge of said member and constituting a hinge connection between the parts, adhesive between one of said parts and the adjacent overlying surface of said plate bottom to form an attachment therebetween, and the other of said parts of the member being free of the adjacent overlying surface of said plate bottom to form an attachment therebetween, and the other of said parts of the member being free of the adjacent overlying surface so as to permit the latter free part to be swung downwardly from a normal bottom-engaging reinforcing position into depending position to permit the same to be tightly gripped between the knees of a user, with the plate bottom being supported on the knees of the user.

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**2,647,679**
**CELLULAR CASE**
**Paul A. Schilling, Thomas G. Mairs, and John B. Baird, St. Paul, Minn., assignors to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota**
**Application November 28, 1949, Serial No. 129,808**
**4 Claims. (Cl. 229—15)**

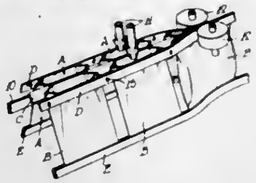
1. A cellular case including a partition structure, the partition structure including a series of first parallel partition members and a series of second parallel partition members intersecting the first partition members at substantially right angles, the first partition members each including a pair of wall panels foldably connected along their upper edges and having vertical slots therein communicating with their lower edges, the second partition members including parallel panels foldably connected together along their upper edges and having vertical slots therein communicating with the upper edges, the slots of each partition member being designed to accommodate a portion of an intersecting partition member, an outer case having a bottom panel, side and end wall panels connected to said bot-



tom panel and extending upwardly therefrom, said side wall panels having flaps on the upper edge thereof folded down into substantially parallel relation therewith, said flap having notches therein terminating in spaced relation to the upper edges thereof engageable over said second partition members to hold the same in place, and said side walls holding said wires from endwise movement.

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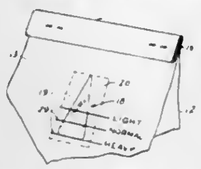
**2,647,680**
**BAG ASSEMBLY**
**Clarence W. Vogt, Norwalk, Conn.**
**Application July 13, 1948, Serial No. 38,477**
**9 Claims. (Cl. 229—53)**



3. As an article of manufacture, a strip of sheet material adapted to be bent along a line extending lengthwise thereof to form an inverted V, a plurality of bags having their open ends connected to said strip along the length thereof, and means independent of said strip for connecting each bag to an adjacent one.

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**2,647,681**
**SEASONING DISPENSER**
**Stephen Arthur Paoli, Rockford, Ill.**
**Application April 20, 1949, Serial No. 88,611**
**4 Claims. (Cl. 229—56)**

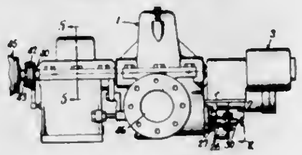



1. In combination, a bag including sides and having a chamber for receiving food materials, a pad of thin flexible metal foil having a portion deformed out of the plane of the pad to define a pocket, means for securing said pad to the side of the bag to have the walls defining said pocket defining with one of the sides of the bag a capsule for containing salt and the like materials, said walls defining said pocket having a slit intermediate the ends of the capsule to define opposite end portions on the capsule, one of said end portions being deformable through the sides of the bag to define an opening in the capsule in communication with the interior of the bag for the passage of salt.

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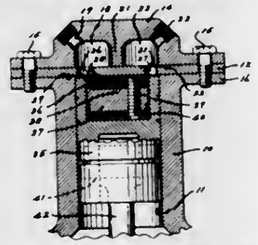
**2,647,682**
**CONTROL FOR TURBINE-DRIVEN COMPRESSORS**
**John M. Dolan, Milwaukee, Wis., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Application August 10, 1945, Serial No. 610,001**
**7 Claims. (Cl. 230—4)**



1. A mechanism of the character described comprising, in combination, a turbine, a compressor driven by said turbine, inlet nozzles for said turbine, fluid actuated control means for controlling the supply of operating fluid to certain of said inlet nozzles, fluid actuated step unloading means for said compressor, and means operative at different predetermined compressor discharge pressures for supplying pressure fluid to different ones of said control means to cut said nozzles out in steps and to different steps of said step unloading means.

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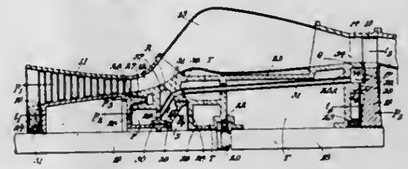
**2,647,683**
**COMPRESSOR**
**Sylvester M. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**
**Application September 6, 1950, Serial No. 183,335**
**2 Claims. (Cl. 230—21)**



1. In combination, a compressor having a cylinder, a piston therein, and a discharge valve for said cylinder, said piston having an end portion exposed to the interior of said cylinder, a closed end threaded bore in the exposed portion of said piston, a plug threaded into said bore, the outer surface of said plug being normally disposed flush with the exposed end portion of said piston to provide a minimum cylinder clearance within said compressor, said plug being rotatable into the piston to position its said outer surface inwardly of the exposed end portion of said piston for increasing the cylinder clearance within said compressor, and a screw threaded through said plug and engaging the closed end of said bore for locking the plug in any one of its adjusted positions against rotation relative to said piston.

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**2,647,684**
**GAS TURBINE ENGINE**
**Adrian Albert Lombard, Allestree, England, assignor to Rolls-Royce Limited, Derby, England, a British company**
**Application March 8, 1948, Serial No. 13,585**
**In Great Britain March 13, 1947**
**1 Claim. (Cl. 230—116)**



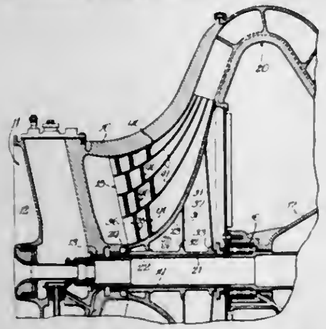
A gas turbine engine comprising in combination a compressor the type having a compressor rotor on which an axial thrust is developed during operation towards its inlet, said compressor also having compressor stationary structure, first sealing means between said compressor rotor and said compressor stationary structure to impede the leakage of fluid compressed by said compressor, a first chamber formed by said compressor rotor and said compressor stationary structure on the side of said first sealing means remote from the outlet of the compressor and located to receive leakage fluid leaking through said first sealing means, a turbine having a turbine stationary structure, a turbine rotor and turbine blades on the periphery of said rotor, said turbine stationary structure defining in combination with the turbine rotor a second chamber between said turbine stationary structure and said turbine rotor and said turbine including a working fluid passage in which said blades are situated, second noncontacting sealing means between the periphery of said turbine rotor and said turbine stationary structure and separating said second chamber from said working fluid passage at a place where the pressure in said working fluid passage is less than that of the leakage fluid in said first chamber, conduit means connecting said first chamber to said second chamber, a balancing piston connected to and rotating with the compressor rotor, a third chamber on the side of said balancing piston nearer the compressor inlet, and second conduit means between the outlet of the compressor and said chamber whereby an axial load is produced on the compressor rotor in the direction towards the compressor outlet which assists in balancing the axial loading of said rotor.

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**2,647,685**
**CENTRIFUGAL IMPELLER STRUCTURE**
**Ladislaw G. Srogi, Blissfield, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan**
**Application December 13, 1947, Serial No. 791,566**
**5 Claims. (Cl. 230—134)**

1. A centrifugal impeller comprising a core structure, and a plurality of radially disposed sheet-metal members fixed thereto, said members being bent along lines extending in three dimensions following substantially in the direction of air flow through the impeller, each of said members having a plurality of radially extend-

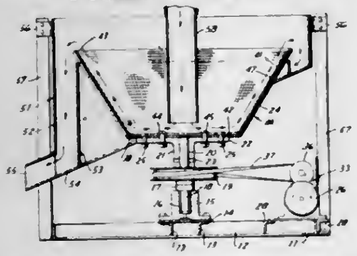
ing portions and connecting portions in each member, the radially extending portions of adjoining members being secured to each other in



face to face contact whereby concentric sets of cells positioned one within another are formed by said portions.

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**2,647,686**
**CENTRIFUGAL SEPARATOR**
**Herbert R. Drury, Laguna Beach, Calif.**
**Application June 2, 1950, Serial No. 165,629**
**1 Claim. (Cl. 233—27)**

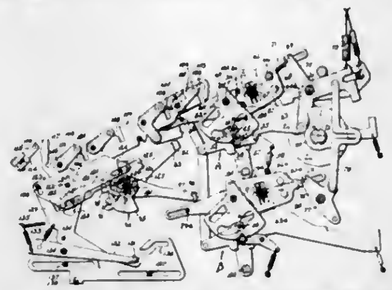


A centrifugal separator comprising a frustoconical bowl for receiving materials to be treated including a base and a side wall, means for rotating said bowl at high speed, a fabric covering disposed against the inner side wall surface of the bowl, a removable frustoconical basket complemental to the inner surface of the bowl and adapted to be received therein, said basket including a base plate arranged to seat on the base of the bowl and be secured thereto, a ring member arranged to engage within the peripheral edge of the bowl and open mesh material spanning the space between the peripheral edge of said base plate and said ring adapted to maintain said fabric covering against the inner side wall of the bowl, said basket serving to keep the material treated in the bowl in a fluid condition whereby centrifugal force classifies and separates the heavier particles moving them through the wall of the basket where they become entrapped in the fabric covering on the bowl wall.

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**2,647,687**
**CALCULATING MACHINE**
**Wharton A. Parsons, Glendale, and Richard E. Busch, El Monte, Calif., assignors to Clary Multiplier Corporation, San Gabriel, Calif., a corporation of California**
**Application May 8, 1951, Serial No. 225,092**
**18 Claims. (Cl. 235—60)**

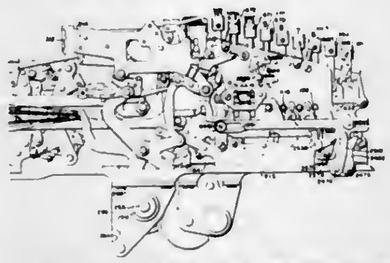
4. In a calculating machine having an accumulator and differential actuators therefor; the combination comprising means for operatively connecting said accumulator to said actuators including a control element movable from a first position to a second position, actuating means, a coupling member operable by said actuating means and adapted to move said control element from said first position to said second position, said coupling member being normally uncoupled from said control element, an engaging device



adapted upon relative movement between said device and said coupling member to move said coupling member into coupled relation with said control element, spring means for normally causing said engaging device to move with said coupling member, and selectively settable means for arresting movement of said engaging device whereby to cause said engaging device to move said coupling member into coupled relation with said control element.

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**2,647,688**
**SYMBOL PRINTING MECHANISM FOR ACCOUNTING MACHINES**
**Raymond A. Christian, Andrew J. Strachan, and Paul H. Williams, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Original application December 6, 1947, Serial No. 790,032. Divided and this application May 9, 1951, Serial No. 225,313**
**12 Claims. (Cl. 235—60.18)**



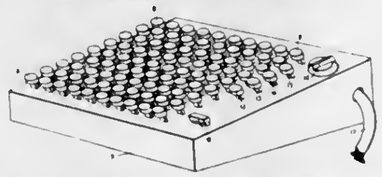
1. In a machine of the class described, having means for giving the machine cycles of operation, the combination of a type carrier yieldably movable from a non-printing position to any one of a plurality of printing positions; a plurality of depressible control keys effective when depressed to control the positioning of the type carrier in one of its plurality of printing positions; means for preventing movement of the type carrier from said non-printing position, said means being normally located in an ineffective position but movable from said ineffective position to an effective position; means for urging said preventing means to move from said ineffective position to said effective position on each



cycle of operation of the machine and prior to the movement of the type carrier from said non-printing position; and means operatively connected to the urging means and operating to sense the presence of a depressed control key and effective when one of said control keys is depressed to cause said preventing means to be retained in its ineffective position when the machine is cycled to enable the type carrier to be positioned in one of its printing positions by said depressed control key.

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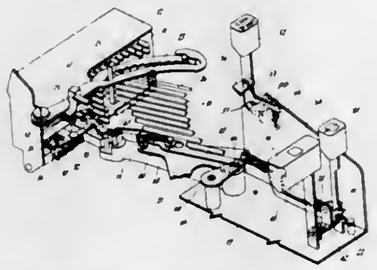
**2,647,689**
**DECIMAL TO BINARY CONVERSION MACHINE**
**Aldred W. Bowyer and John R. Cartwright, Letchworth, England, assignors to British Tabulating Machine Company Limited, London, England, a British company**
**Application November 29, 1950, Serial No. 198,068**
**In Great Britain December 15, 1949**
**21 Claims. (Cl. 235—60.38)**



1. A key operated automatic punch comprising a keyboard having keys arranged for the setting up of values in decimal notation, means for halving repeatedly the decimal value set up on said keyboard, and means controlling the punching of a record at spaced intervals after each halving operation in accordance with whether the value prior to each said halving operation is odd or even, thereby recording representations of the successive digits of the binary equivalent of said decimal value.

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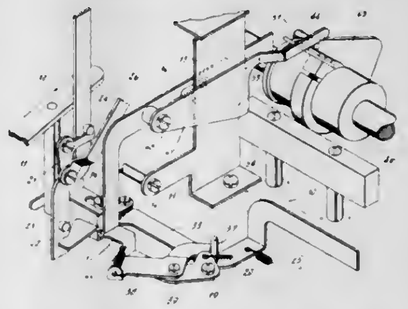
**2,647,690**
**MULTIZERO INDEXING DEVICE FOR ADDING MACHINES**
**Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware**
**Application December 15, 1950, Serial No. 201,031**
**5 Claims. (Cl. 235—63)**



1. In an adding machine or the like, having a plurality of lines of normally non-indexed settable stop pins to control amount entering operations of said machine, a plurality of manually operable stop pin setting members relatively shiftable across said stop pins, spring means to relatively shift said stop pins and said setting members to present successive lines of said stop pins to said setting members and an escapement device to restrain such relative shifting means, the combination of a member relatively shiftable with said stop pin setting members, key operable means to set said member from an ineffective position to a position wherein it will engage portions of certain of said stop pins and thereby set said certain pins during said relative movement, and means to release said escapement device to free said stop pin setting members and said member shiftable therewith for relative movement with respect to said stop pins.

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**2,647,691**
**SKIP TABULATING MECHANISM FOR ACCOUNTING MACHINES**
**Walter A. Anderson, Trumbull, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware**
**Application November 28, 1951, Serial No. 258,547**
**3 Claims. (Cl. 235—130)**



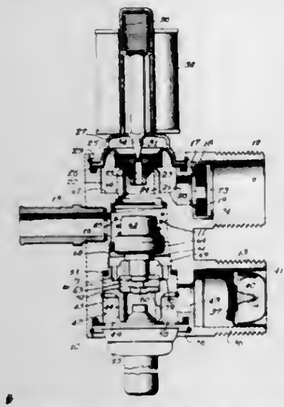
1. In an accounting machine of the type having a frame, a carriage shiftable on said frame and tabulating mechanism for said carriage, an amount indexing mechanism, an express tabulating key, a lock lever spring urged to a position in which said lever locks said express tabulating key against operation, a member connected to the amount indexing mechanism to hold said lock lever in the unlocking position when no amount is indexed in said indexing mechanism, a cyclically operating member to momentarily move said lock lever to an unlocking position, a latch to hold said lock lever in said unlocking position, and a cyclically operating member to release said latch and free said lock lever to control by said indexing mechanism.

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**2,647,692**
**MIXING VALVE**
**Dan W. Keller and Victor E. Rimsha, Chicago, Ill., assignors to The Dole Valve Company, Chicago, Ill., a corporation of Illinois**
**Application September 27, 1951, Serial No. 248,492**
**5 Claims. (Cl. 236—12)**

1. A mixing valve comprising a valve body having hot and cold water inlets, a central mixing chamber, an outlet from said mixing chamber, individual shut-off valves at opposite ends of said mixing chamber for controlling the flow of hot and cold water into said mixing chamber, a flow control member associated with said hot water inlet and means controlling the flow of cold water into said chamber in addition to the associated shut-off valve including a thermostatic element mounted within said mixing chamber

and valve means operated thereby for controlling the passage of cold water into said mixing chamber from said shut off valve in accordance with the temperature of the mixed water.



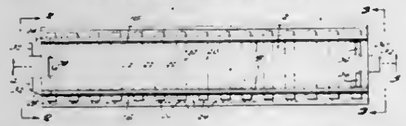
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2,647,693

## MOLDED TRACK FOR VEHICLE TOYS

Richard N. Carver, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application April 14, 1949, Serial No. 87,388
8 Claims. (Cl. 238—10)



3. A molded plastic track section for a vehicle toy, said track section comprising a flat continuous base portion on which the vehicle wheels run and a pair of spaced rails projecting upwardly therefrom between which the vehicle wheels run, the base portion being molded with smooth areas between and extending outside said rails to simulate ties and with embossed areas between and extending outside said rails to simulate road bed ballast between the ties, the embossing between the rails being substantially flat and in the plane of the ties in order to permit free operation of the vehicle wheels on the base surface between the rails, the embossed road bed portions outside the rails being depressed substantially below the top surface of the simulated ties, said track section including side walls which stiffen and elevate the base portion somewhat, and said base, rails, simulated ties and ballast, and side walls, all being an integral molded piece.

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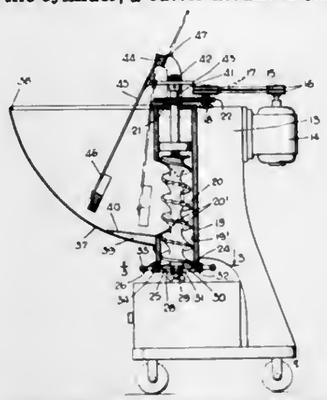
2,647,694

## LEAF GRINDER

John M. Williams, Madison, N. J., and Thomas L. May, Long Island City, N. Y.; said May assignor to said Williams

Application September 3, 1949, Serial No. 113,914
4 Claims. (Cl. 241—81)

1. A leaf grinding apparatus of the character described, comprising a vertical frame having a triangular base, a cylinder arranged vertically in and extending the major portion of the length of said frame, the lower end of the cylinder being arranged above and spaced from said base, a feed screw mounted in the lower portion of said cylinder and having a shaft extending at the top of said cylinder, said cylinder having an opening intermediate and widely spaced from its ends for delivery of products to the cylinder for feed by said screw, a motor on the upper portion of the frame, means comprising a gear train between the shaft of the motor and said screw shaft for actuating said screw, said cylinder being open at its lower end, an apertured disc fixed to the open end of the cylinder, a cutter mounted on the feed screw outwardly of and moving over the surface of said disc to cut products fed by said screw through the apertures of said disc, and a hopper materially larger in diameter than the diameter of said cylinder and encircling more than one-half of the diameter of the cylinder for supporting a relatively large body of products around and beyond the upper and lower limits of the cylinder opening for delivery to the opening of said cylinder.



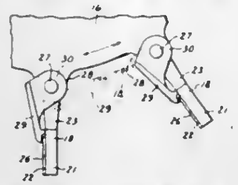
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2,647,695

## ROTOR COMPRISING PIVOTED HAMMER PROVIDED WITH ARMORED OUTER PORTION AND PLATE-SHIELDED INNER PORTION

Wayne C. Rogers, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts

Application November 1, 1950, Serial No. 193,431
5 Claims. (Cl. 241—197)



1. A hammer mill comprising a rotor disk, a series of hammers spaced around the periphery of the disk, each hammer including an outer portion or head having a flat front surface and an inner supporting portion having two laterally spaced apertured ears which straddle the adjacent portion of the disk, a protective armor of extremely hard material secured to the front surface of each hammer head, a separate shield plate located in front of the inner portion of each hammer to protect the same from abrasion, two laterally spaced apertured ears on each shield plate and straddling the adjacent portion of the disk, and a pin or the like extending through the hammer ears, the shield plate ears, and the disk.

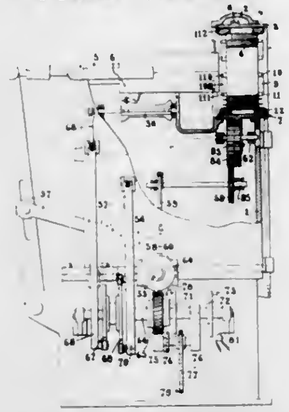


2,647,696

## STATOR WINDING MACHINE

André Brunand, Lyon, France, assignor to Societe Anonyme styled: Compagnie Electro-Mecanique, Paris, France

Application November 22, 1949, Serial No. 128,729
In France November 23, 1948
4 Claims. (Cl. 242—1)



1. A machine for winding simultaneously several phase-windings of multiphase multipolar alternating current stators provided with notches and designed for having several winding planes, which machine comprises a frame, a support rotatably mounted on said frame and adapted for the coaxial holding of the stator to be wound, a set of side-guides for each winding plane of the stator, said side-guides being firm with said support and arranged on each side of the stator, a shuttle mounted on the frame of the machine for coaxial reciprocation through the bore of the stator held in the support, said shuttle including an oblong body, a plurality of levers distributed around said body and mounted thereon for radial swinging motion with regard thereto, said levers being in number equal to that of the phase-windings of the stator to be simultaneously wound, a hollow finger on each lever, a slide-member mounted coaxial with the body of the shuttle for longitudinal motion along the same and having cam-faces in engagement with said levers, said cam-faces being designed for swinging simultaneously the levers and for setting the hollow fingers thereof at a common distance from the body depending on the amplitude of displacement of said slide-member along said body, a control lever fulcrumed on said body and having a connection with said slide member, said control lever having one arm protruding out of said body, a cam-bearer mounted on the frame of the machine for successive displacements with regard thereto and having a set of cams adapted for successive engagement with said arm in said successive displacements, each cam being designed for pivoting the control lever and displacing the slide member so as to keep the hollow fingers of the shuttle within the bore of the stator during the greater part of each reciprocation stroke of the shuttle and for protruding said fingers at the end of each reciprocation stroke and bringing them behind one of the aforesaid set of side-guides on the side of the stator, feeding means on the frame for feeding a wire through each of said hollow fingers, means for producing intermittent reciprocation strokes of the shuttle through the bore of the stator, thereby reciprocating the arm of the control lever along the cam in engagement therewith and causing the hollow fingers to simultaneously lay their wires into notches during each reciprocation stroke and to be brought simultaneously at the end of each stroke to a position for engagement of their wires behind side-guides of the support by angular displacement of this latter, means for producing alternatingly in either direction an angular displacement of the support in each interval of time between two successive reciprocation strokes of the shuttle, thereby causing the hollow fingers to engage simultaneously their wires behind the side-guides, and means for selectively producing successive displacements of the cam-bearer and causing the successive engagement of the cams thereof with the arm of the control lever.



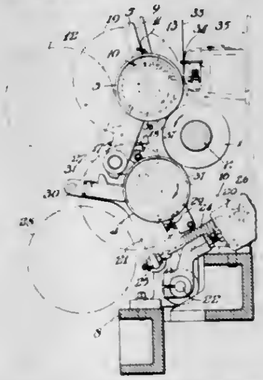
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2,647,697

## TANDEM CHUCK WIND-UP

Frank Scott Pollock, Jr., Martinsville, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 17, 1948, Serial No. 8,789
10 Claims. (Cl. 242—35.5)



1. A process for winding filamentous structures which comprises surface driving a core on an upper section of a rotating drive roll; surface driving a second core on a lower section of said rotating drive roll; passing a plurality of said structures through a guide mechanism and then through the nip formed by the said upper wind-up core and said drive roll; separating a portion of said structures from said plurality; passing this portion to said upper core and winding it thereon; passing the remainder of said plurality through the nip formed by said lower wind-up core and said drive roll; and winding said remainder on said lower core.

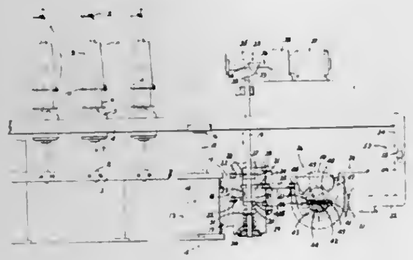
4. Apparatus for separating and winding on individual cores filamentous structures travelling in a group which comprises a traversing guide; a drive roll having a smooth surface; an upper wind-up core surface-driven on an upper section of said drive roll to receive a portion of said structures; a lower wind-up core surface-driven on a lower section of said drive roll to receive another portion of said structures; and a guide comprising a section of said smooth surface on said drive roll, said section being exposed between said upper and said lower wind-up cores to contact the portion of said structure that by-passes one of said cores in its travel to the other of said cores.

2,647,698

## WINDING MACHINE TRAVERSE MECHANISM

Edward L. Woolley, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application July 25, 1947, Serial No. 763,528
17 Claims. (Cl. 242—43.3)



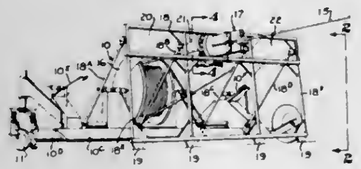
1. In a winding machine, a supporting member, a strand-collecting device on the member, a member for guiding a strand to the device, a hydraulic motor for imparting relative reciprocatory motion between the members, a valve for reversing the direction of the relative motion between the members, a cam for periodically operating the valve at regular intervals, means for rotating the cam at predetermined speed, a pump for controlling the rate of flow to the motor, and means comprising an element operatively connected to the reciprocated member for varying the discharge rate of the pump in response to the movement of the element imparted thereto by the reciprocated member.

2,647,699

## CONTINUOUS GRIP TRANSMISSION LINE APPARATUS

Harleigh L. Bush, El Centro, Calif.

Application January 6, 1951, Serial No. 204,735
5 Claims. (Cl. 242—54)



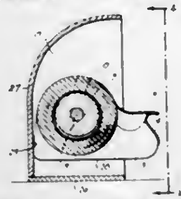
1. In apparatus of the character described, a cable reel having a cable thereon, a carriage rotatably supporting said reel, said reel having a pair of spaced peripheral edges, a bottom plate pivotally mounted on said carriage, manually operable means arranged, upon actuation, to pivot said plate into engagement with said peripheral edges to thereby brake the reel, a combined gripping and brake structure mounted on said carriage, said structure comprising a pair of endless belts, each of said belts comprising a plurality of articulated resilient blocks, with blocks of opposite pairs disposed adjacent each other and adapted to grip the cable supplied from said reel therebetween, and adjustable brake means restraining the movement of said pair of belts.

2,647,700

## DISPENSING SPOOL OF ADHESIVE TAPE AND SUPPORTING ENCLOSURE THEREFOR

Harvey Lathrop, Forest Hills, N. Y.

Application July 12, 1951, Serial No. 236,354
5 Claims. (Cl. 242—55.5)



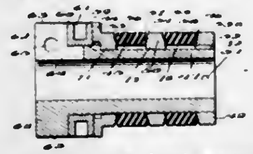
1. The combination with a dispensing spool of adhesive tape comprising a hub and a tangential projection eccentric to the hub to support the free end of the tape, of a supporting enclosure comprising a pair of parallel vertical walls, means carried by said walls for engaging the spool hub to support the latter in a horizontal disposition and for free rotation about its axis, transverse walls extending between said vertical walls to form an enclosure closed on all sides but one, the open side lying in a single plane so that the enclosure may be rested thereon to conceal said spool, the transverse wall adjacent to said open side being flat so that the enclosure may be optionally rested on said flat wall to bring the open side into upright position and thereby expose and afford access to said spool, said spool being supported with its tangential projection downward and facing away from said flat wall when the enclosure is in the spool concealing position, whereby the eccentricity of said projection automatically causes it to protrude out of said open side of the enclosure when the enclosure is rested on said flat wall.

2,647,701

## EXPANSIBLE CORE CHUCK

William H. Cannard, Attleboro, Mass.

Application February 2, 1949, Serial No. 74,112
12 Claims. (Cl. 242—68)



11. An expansible core chuck assembly adapted to be mounted on a shaft as a unit comprising a sleeve member, bearing members secured to opposite ends of the sleeve member and provided with spaced bearings therein adapted to receive a shaft, one of said bearing members having an annular flange provided with a flat lateral face, the other of said bearing members having an adjustable member thereon, spaced elastic expansion rings mounted on said sleeve member between said annular flange and said adjusable member and having flat lateral faces, a lateral face of one of said expansion rings being engageable with the lateral face of the annular flange, compression rings mounted on said sleeve member and having flat lateral faces adapted to engage the lateral faces of the expansion rings, a spacer sleeve mounted on said sleeve member between the inner ones of said compression rings, said expansion rings, compression rings and spacer sleeve being relatively movable axially on said sleeve member, said adjustable member being movable on said other end bearing member for



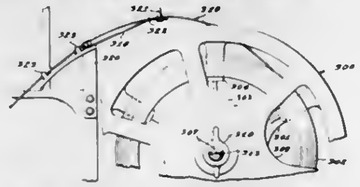
effecting relative axial movement of the compression rings to cause said expansion rings to tend to expand circumferentially.

2,647,702

## WIRE REEL MOUNTING

John G. Wright, Charles D. Toney, Charles A. Watkins, and Eugene Sudan, Atlanta, and William A. Maxwell, Duluth, Ga., assignors to The Auto-Soler Company, a corporation of Georgia

Original application January 18, 1947, Serial No. 722,806, now Patent No. 2,571,984, dated October 16, 1951. Divided and this application December 13, 1950, Serial No. 207,889
5 Claims. (Cl. 242—68)



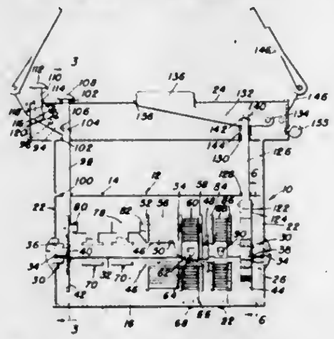
3. A reel assembly for dispensing wire from a roll comprising a spindle adapted for attachment to a supporting structure, a reel member having a hub portion formed with a bore adapting said reel member for rotative support on said spindle, a flange member removably disposed on said hub portion in association with said reel member for confining a roll of wire on said reel member, a retaining element mounted at the extending end of said spindle, resilient means disposed on said spindle between said retaining element and said hub portion for positioning said reel member on said spindle, means for manipulating said retaining element to release said resilient means and allow removal of said reel member and said associated flange member as a unit from said spindle, and means for removing said associated flange member alone to allow replacement of an exhausted wire supply on said reel member while allowing said retaining element to maintain its positioning disposition for said reel member on said spindle.

2,647,703

## REEL FOR LEASHES

Andrew P. Hayes, San Francisco, Calif.

Application August 17, 1950, Serial No. 180,068
9 Claims. (Cl. 242—107)



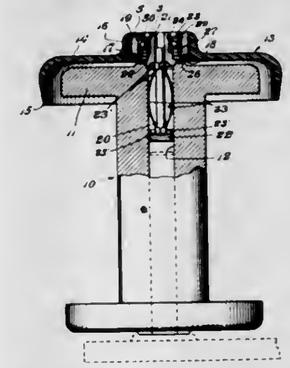
1. A tape reel comprising a support, a shaft rotatably journaled on said support, a spool rotatably journaled on said shaft and a tape wound upon said spool, means yieldingly retracting said tape on said spool, a locking arm carried by said shaft for rotation therewith, means for selectively locking said shaft against rotation, an ear on said spool, means responsive to unwinding of said tape from said spool for unidirectionally locking said locking arm to said ear to prevent tape unwinding rotation of said spool.

2,647,704

## FREE SPINNING CAP ASSEMBLY

Lee F. Samler, Baltimore, and Anthony Leo Genovese, Odenton, Md., assignors to The National Plastic Products Company, Odenton, Md., a corporation of Maryland

Application June 2, 1950, Serial No. 165,686
7 Claims. (Cl. 242—128)



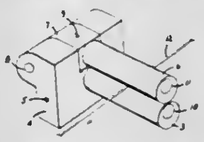
1. In a device for the endwise winding and unwinding of a hollow package of a continuous strand of wound material, a plug assembly engaging the inner wall of the hollow package rigidly, said plug assembly comprising means fitting into the lower hollow portion of the package, a second means fitting into the upper hollow portion of the package, and resilient means mounted between the first and second means engaging the inner wall of the hollow package, a cap member rotatably attached to said plug assembly, said cap member including a depending flange at the outer periphery of said cap member covering the upper end of the wound portion of the said package, and bearing structure mounted between the said cap member and the said plug assembly to permit rotation of the cap member with respect to the plug assembly and the package.

2,647,705

## STRAND TENSION DEVICE

Charles G. Gilmore, Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application June 15, 1950, Serial No. 168,337
14 Claims. (Cl. 242—154)

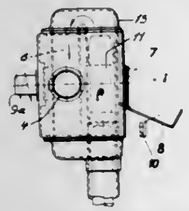


1. A tension device comprising guide supporting means, a guide member extending lengthwise

from the supporting means, means for securing the guide member fixedly to the supporting means, a second guide member extending lengthwise from the supporting means in juxtaposition and generally parallel to the first guide member, said second guide member being pivotally mounted on the supporting means on an axis transverse of the length of the member, each of said members comprising a magnetic element mounted therein, the element in at least one of the members being a magnet, said guide members being adapted to receive a thread therebetween and in contact therewith.

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**2,647,706**
**RECEIVER FOR PNEUMATIC POST SYSTEMS WITH HORIZONTAL CAPSULE EJECTION**
**Willy K. Sindzinski, Berlin, Germany, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application November 30, 1950, Serial No. 198,302**
**In Germany October 7, 1948**
**5 Claims. (Cl. 243—23)**

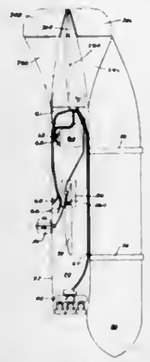


1. A receiver for a pneumatic tube system comprising a housing, a rotary receiving element positioned in said housing, a carrier receiving chamber in said receiving element, an inlet pipe connected to said housing at a first point in alignment with said chamber when said rotary receiving element is in an unoperated position, a suction pipe connected to said housing at a second point angularly displaced with respect to said first point, an air duct within said receiving element extending between a first point and a second point in the periphery thereof separate from said chamber, a junction chamber associated with said housing and forming a connection between said chamber and one end of said air duct when said receiving element is in unoperated position, the other end of said duct then being in alignment with said suction pipe whereby a carrier entering said inlet pipe will be drawn into said chamber, the relationship of said parts being such that when said receiving element is subsequently rotated to a different angular position in said housing said air duct will form a connection between said inlet pipe and said suction pipe and suction on said chamber will be cut off, and a normally closed discharge opening in the side of said chamber.

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**2,647,707**
**CONTROL FOR AERIAL TORPEDOES**
**Robert H. Hill, Anderson, and James H. Guyton, Kokomo, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application October 9, 1942, Serial No. 461,370**
**12 Claims. (Cl. 244—14)**

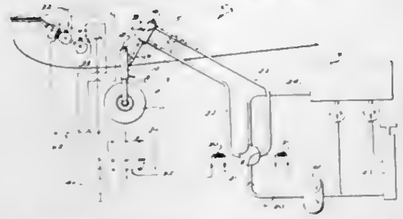
1. In a control device for an aerial torpedo having elevators, the combination with a source of direct electrical current and a source of pulsating current; a servo-mechanism fed from the source of direct electrical current for actuating the elevators; an electromagnet relay; a photoelectric tube; a trigger tube in circuit with said photoelectric tube and the relay, said trigger tube being adapted to be energized by the photoelectric tube when excited to conduct the pulsating



current to the relay to close it whereby the servomechanism is rendered active to actuate the elevators in one direction; and means in circuit with the relay for retarding its deenergization due to the pulsations of the current flowing therethrough.

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**2,647,708**
**CONTROL FOR THE LANDING GEAR OF AIRCRAFT**
**Jack F. Haverlin, Northridge, Calif., assignor to Haverlin Aviation Products, Inc., Northridge, Calif., a corporation of California**
**Application September 14, 1950, Serial No. 184,835**
**11 Claims. (Cl. 244—102)**



5. A control for a reversible actuator of a landing gear of an airplane including, an electric system having two switches governing actuation and the direction of operation of the actuator, cam means engaging and operating the said switches, and a pneumatic operator in driving engagement with the cam means including a stationary case, a cam operating member operating in the case, and an air tube receiving air as the airplane advances and delivering it into the case to act on and move said member.

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**2,647,709**
**PLANING SURFACE FOR AIRCRAFT AND HYDROCRAFT**
**Donald B. Doolittle and Jack R. Walden, Wilmington, Del., assignors, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware**
**Application February 6, 1950, Serial No. 142,654**
**6 Claims. (Cl. 244—108)**

6. Landing gear for airplanes equipped with hydro-skis or the like, each ski having a variable position planing surface, said planing surface of each ski including pilot controlled side planing sections vertically movable with respect





to planing position, and each of said skis having axle mountings for connection on the axles of said respective landing gear.

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**2,647,710**
**RAILWAY SWITCH BOX**
**Eugene O. Humphrey, Salt Lake City, Utah**
**Application September 21, 1949, Serial No. 116,890**
**10 Claims. (Cl. 246—411)**



1. A railway switch comprising a pair of laterally spaced swingably mounted switch tongues, a switch box, means anchoring the switch box between said tongues, an elongated horizontal hanger in said box, rockably mounted supports in said box attached to and suspending said hanger in the box for endwise movement bodily in suspended position, a pair of rods extending oppositely out of said box and connected to said tongues for endwise movement to swing said tongues, an equalizer member operatively connected to said rods to move the same upon movement of said equalizer member bodily, a pivot suspending said equalizer member on said hanger for movement bodily in suspended position therewith and swinging on said hanger to compensate for variable swinging of said tongues, and a hand lever pivotally connected to said box and to the pivot of said equalizer member for moving said hanger and equalizer bodily.

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**2,647,711**
**WALL SUPPORTED HANGER**
**Joseph M. Margulis, Philadelphia, Pa., assignor to Jiffy Enterprises, Inc.**
**Application December 6, 1950, Serial No. 199,383**
**5 Claims. (Cl. 248—29)**



1. In a nail-less hanger for pictures and the like, the combination of a generally rectangular sheet of flexible material having an adhesive coating on its rear surface and being folded under on itself along a transverse line of fold to provide front and rear flaps normally disposed with their adhesive surfaces facing but free of one another and an intermediate hem extending transversely across the sheet and being substantially contained in the plane of the front flap, transversely extending hook-attaching means contained in the hem and being substantially coextensive therewith, and a picture-supporting hook affixed at its upper end to the middle portion of the attaching means and depending therefrom substantially on the vertical center line of the hanger, the vertical dimension of the rear flap being such that, when it is swung downwardly to lie in the plane of the front flap and both said flaps are adhesively secured to a wall surface, said rear flap is disposed intermediate the wall and the hook and thereby provides a backing for the hook.

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**2,647,712**
**LEVEL HOLDER**
**Richard Sandmoen, Minneapolis, Minn.**
**Application April 24, 1950, Serial No. 157,823**
**1 Claim. (Cl. 248—44)**



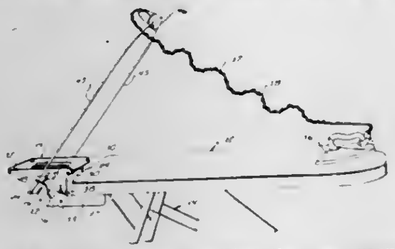
A holder of the class described comprising a hollow relatively thin walled body of rectangular shape in cross-section and having an open top, attaching flanges projecting horizontally outwardly at the bottom of the body adapted for holding the same in an upright position on a supporting structure, a pair of outwardly flared flanges projecting upwardly from a pair of opposed walls of the body, and a pair of opposed resilient jaws integrally united with the upper edge of the remaining pair of opposed walls and positioned vertically internally of the body and having outwardly flared upper portions coacting with said outwardly flared flanges to guide an object downwardly into the body, said jaws being of a width substantially equal to the width of their united walls to exert a gripping action on the object throughout the entire width of the latter.

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**2,647,713**
**UNIVERSAL COMBINATION COLLAPSIBLE FLATIRON REST AND CORD CONTROL**
**Jacob A. Werschling, Chicago, Ill.**
**Application February 24, 1950, Serial No. 146,004**
**7 Claims. (Cl. 248—51)**

1. An ironing board attachment of the character described, comprising a frame adapted to be secured to an end portion of an ironing board, a pan member hinged to said frame for rotation around a horizontal transverse axis, support

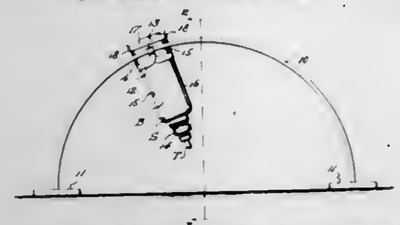
means on the frame spaced so as to underlie and support the pan member when the pan member is in a rearwardly-swung horizontal position, a pair of tubular arms pivoted to the frame on opposite sides thereof for vertical swinging move-



ment and arranged to receive the pan member therebetween, a plug receptacle carried by the ends of said arms, respective conductors extending through said arms and connected to the plug receptacle, and spring means biasing the arms toward elevated positions.

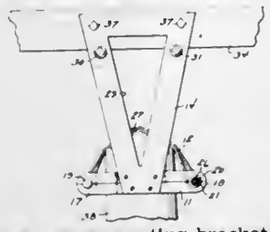
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2,647,714
**INFANT FEEDING BOTTLE SUPPORT**
Richard J. Drill, East Orange, N. J.
Application April 17, 1951, Serial No. 221,498
6 Claims. (Cl. 248—106)



3. An infant feeding bottle support comprising at least one arched carrier rod provided at its opposite ends with foot plates to hold the same in erect upstanding position, and a bottle holder, said bottle holder comprising an annular holder band adapted to grippingly encircle an inverted bottle, said holder band having, as a unitary part thereof at least one external radially projecting hanger loop member adapted to embrace a carrier rod whereby to attach the holder band thereto, said hanger loop member being adapted to be slidably moved along said carrier rod for adjusting the position of the holder band and supported bottle thereon, a guard harness cooperative with the holder band and the inverted bottle embraced thereby, said guard harness comprising a bottom collar member to encircle the neck of the inverted bottle, pairs of non-stretchable tie straps each comprising an inner tie strap and a superposed outer tie strap, said pairs of tie straps being respectively affixed to opposite sides of said bottom collar member to extend longitudinally upward therefrom along opposite sides of the inverted bottle, a top collar member to encircle the inverted bottle body above the holder band applied thereto, the inner tie straps extending across the holder band internally thereof, the upper ends of said inner tie straps being respectively affixed to opposite sides of the top collar member, the outer tie straps extending across the holder band externally thereof, and said inner and outer tie straps having cooperative means for releaseably securing their upper end portions together.

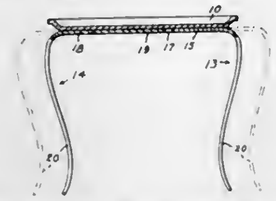
2,647,715
**POLE EXTENSION**
John W. Garrison, Big Spring, Tex.
Application May 8, 1950, Serial No. 160,684
2 Claims. (Cl. 248—221)



1. A cross arm supporting bracket comprising substantially U-shape clamps having flanged ends, bolts with spacing sleeves thereon extended through the flanges at the ends of the clamps, a strap extended from the sleeves on the bolts upwardly over the end of a pole positioned between the clamps, substantially triangular shaped arms with outwardly diverging sides extended upwardly from the clamps and secured to the clamp at the apex of each arm, and bolts extended through the arms providing rests for a cross arm positioned between the arms.

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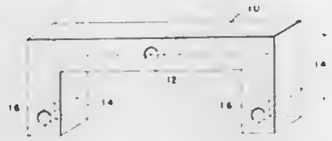
2,647,716
**CHAIR TRAY WITH FURNITURE ARM ENGAGING BRACKET**
Alberta I. Hudziak and Pauline H. Kyker, Seattle, Wash.
Application December 8, 1948, Serial No. 64,144
1 Claim. (Cl. 248—226)



A device for use in combination with an upholstered furniture arm rest comprising a supporting member; a groove in the supporting member, said groove being of dove tail shaped cross section; a substantially L shaped bracket member of resilient material having a supporting member engaging part which is provided with beveled edges slidably and telescopically received in said dove tail shaped groove, the bevel edged part of said bracket member having a longitudinally disposed slot of dove tail shape cross section extending from the end thereof toward the bend portion of the bracket member; and another substantially L shaped bracket member of resilient material having a supporting member engaging part which is provided with beveled edges slidably and telescopically received within said dove tail shaped groove in said supporting member and further having a tongue of dove tail shaped cross section slidably and telescopically received within the longitudinal slot in the bevel edged part of said first mentioned bracket member, said two L shaped bracket members having opposed clamping arms extending approximately at right angles from their supporting member engaging parts, whereby outward pressure against said opposed clamping arms provides frictional binding of the relatively telescopic parts of the brackets in the groove of the supporting member.



2,647,717
**SHOCK MOUNTING**
Ralph F. Norris, Madison, Wis., and Robert D. Avery, Mineola, N. Y., assignors to the United States of America as represented by the Secretary of the Navy
Application October 26, 1944, Serial No. 560,450
5 Claims. (Cl. 248—358)



5. A vibration dampening element for supporting an instrument on a panel comprising a member consisting of an elongated body and a pair of legs attached to opposite ends of the body, said member being composed of a non-metallic resilient material, the body of which is provided with a through hole substantially at the center thereof, and the legs of which are provided with through holes near their free ends, said through holes being parallel to each other and extending transversely of the member.

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2,647,718
**PICNIC CLOTH HOLDER**
Samuel J. Disera, Joliet, Ill., assignor of one-half to Charles A. McClure, Chicago, Ill.
Application November 24, 1950, Serial No. 197,420
2 Claims. (Cl. 248—361)

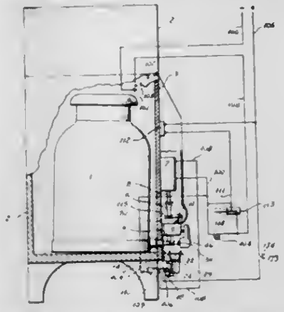


1. A picnic cloth holder, comprising a downwardly tapered peg adapted to be pressed in the ground, a laterally projecting enlarged head provided at the upper end of said peg and having a substantially flat undersurface, and a substantially loop-shaped keeper swingably attached to said peg under said head, whereby a corner portion of a cloth may be inserted in the keeper and frictionally held between the undersurface of said head and the ground.

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2,647,719
**SELF-MEASURING MILK DISPENSER**
Henry T. Coates, Clinton, N. J., assignor to Monitor Process Corporation, Jersey City, N. J., a corporation of New Jersey
Application December 14, 1951, Serial No. 261,684
5 Claims. (Cl. 249—63)

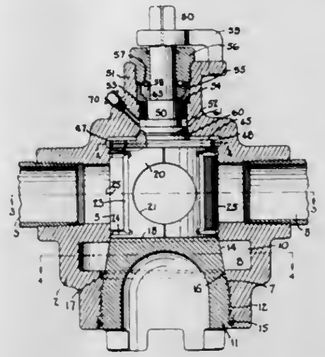
1. An apparatus for dispersing a given quantity of milk through a valve, comprising a valve operating solenoid, an electric circuit for energizing the solenoid to open the valve, said circuit including the solenoid, a push button and a normally closed master switch, a maintaining circuit shunting the push button and including a normally open maintaining switch, means for closing the maintaining switch when the solenoid is energized to keep the solenoid energized until the master switch is opened, a pivoted glass holder having means to open the master switch when tilted to a predetermined angle, and a spring opposing the tilting of the holder to such



angle until a predetermined quantity of milk has been deposited in the glass.

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2,647,720
**AUTOMATIC LUBRICATED PLUG VALVE**
Alexander S. Volpin, Houston, Tex.
Application October 6, 1947, Serial No. 778,147
19 Claims. (Cl. 251—93)



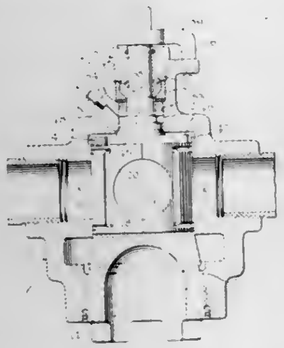
6. A sealing material reservoir for a lubricated valve having a sealing side, the configuration of said reservoir defining an annular chamber, means to introduce sealing material therein, a passage therefrom to the sealing side of said valve, means to admit line pressure on said valve to said reservoir whereby the sealing material may be urged to said sealing side to effect a seal and movable barrier means therein movable in response to line pressure.

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2,647,721
**ARRANGEMENT FOR REPACKING VALVE STEMS UNDER PRESSURE**
Alexander S. Volpin, Houston, Tex.
Original application October 6, 1947, Serial No. 778,147. Divided and this application May 26, 1949, Serial No. 95,565
14 Claims. (Cl. 251—103)

1. A plug valve including, a body, flow passage therethrough, a ported plug in said body to open and close said passage, means to feed sealing material to the downstream face of said plug, an operable stem separably engaging said plug, an anti-friction bearing positioned between said stem and said body so as to support the axial thrust on said stem, a packing about said stem, and cooperating sealing faces on said stem and

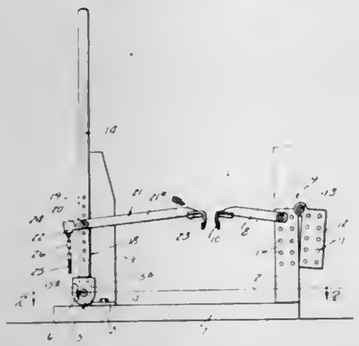
body which are normally spaced apart by said bearing, and means to release said bearing to permit axial movement of said stem to create such seal while the plug is maintained in sealed



engagement with said body, said means comprising a spacing member disposed between said packing and said bearing, said member being composed of material which is fusible at temperatures sufficient to impair said packing.

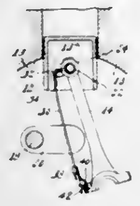
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**2,647,722**
**TIRE SPREADER**
**Ernest H. Koester, Gaylord, Minn.**
**Application October 6, 1950, Serial No. 188,767**
**5 Claims. (Cl. 254—50.4)**



1. In a device of the class described, a base member, a pair of upstanding legs secured to said base member in laterally-spaced relation and defining therewith a U-shaped tire casing-receiving frame, a hook-equipped spreader bar pivotally secured to one of said legs in spaced relation to the base, the other of said legs being formed to provide a vertically-extended track, a lever associated with said other leg, said lever at its inner end being provided with a bifurcated head which straddles said track, a roller carried by said head and engageable with said track, a second hook-equipped spreader arm pivotally secured to the intermediate portion of said lever and movable toward and away from the first-mentioned spreader arm by pivotal movements of said lever about the axis of the pivotal connection therebetween and said spreader arm and by vertical movements of the roller-equipped end of said lever on said track.

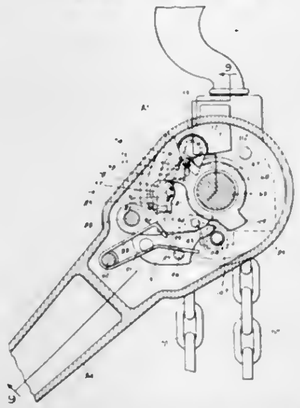
**2,647,723**
**CONNECTING ROD SPREADER**
**Alfred B. Seppmann, Mankato, Minn.**
**Application March 4, 1950, Serial No. 147,673**
**1 Claim. (Cl. 254—131)**



In a connecting rod spreader, an elongated bar adapted to serve as a lever and having a cam at one end, said cam being adapted to enter the slot of a wrist pin bearing of a connecting rod for spreading the slot when the lever is swung toward the rod, and a sliding lock element on said bar having a finger closely adjacent one side of the bar and projecting in a direction generally parallel to the bar for entering one of the connecting rod bearing holes when said lever is swung to a position against the boss in which said hole is located to retain the tool in operative position while handling the connecting rod.

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**2,647,724**
**HOIST STRUCTURE**
**James R. Coffing, Danville, Ill.**
**Application April 21, 1951, Serial No. 222,257**
**7 Claims. (Cl. 254—167)**



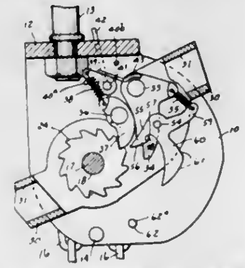
1. A hoist structure including a housing mounting a shaft, a load supporting wheel on said shaft, a co-axial offset ratchet wheel thereon, a holding pawl pivoted on said housing for ratcheting engagement with said ratchet wheel, a spring normally biasing said pawl into ratchet engaging position, an operating handle pivoted on said housing in co-axial relation to said wheel, a load pawl pivoted on said handle, a spring on said handle engaging said load pawl by biasing it into ratcheting engagement with said ratchet wheel, a latch pivoted on said handle in biased engagement with said last-mentioned spring movable into and out of latching engagement with said load pawl, a control member movable to reverse the tension on said first-mentioned spring to bias said holding pawl out of ratchet wheel engagement, and a control ring mounted for rotation on



said shaft adjacent said ratchet wheel having a radially projecting camming member operably connected with said holding pawl engageable by said load pawl at the end of its load lowering stroke to effect holding pawl engagement with said ratchet wheel and engagement by said latch to be latched from ratchet wheel engagement during its return stroke.

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**2,647,725**
**HOIST STRUCTURE**
**James R. Coffing, Danville, Ill.**
**Application November 23, 1949, Serial No. 129,071**
**8 Claims. (Cl. 254—169)**

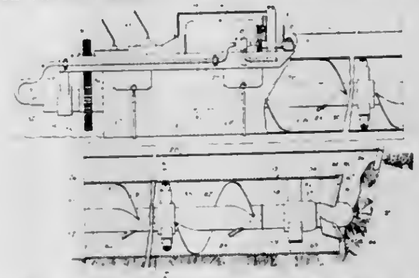


1. In a hoist structure for raising and lowering a load, a housing having bearings for supporting a shaft, a tooth load wheel on said shaft for operating a flexible load raising and lowering means, an oscillating hub rotatably mounted upon said housing concentrically with said shaft, a load pawl pivotally mounted on said hub normally biased into tooth engagement with said load wheel, a holding pawl pivoted on said housing, a control member rockable on said housing having a spring connection with said holding pawl movable to yieldingly constrain said pawl to load wheel holding position when moved in one direction and free thereof when moved in the opposite direction, a latch pivotally mounted on said hub adjacent said load pawl movable into latching engagement therewith upon said load pawl being oscillated to operative engagement with said holding pawl for latching said load pawl out of wheel operating position while forcing said holding pawl to its holding position during a load lowering operation, and a camming element on said housing engageable by said latch upon said hub being oscillated a predetermined distance away from said holding pawl for camming said latch to release said load pawl to load wheel operating position.

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**2,647,726**
**HORIZONTAL EARTH BORING MACHINE**
**Melvin B. Kirk, Liberal, Kans., assignor to The Hallen Company, Inc., Long Island City, N. Y., a corporation of New York**
**Application June 30, 1950, Serial No. 171,469**
**4 Claims. (Cl. 255—20)**

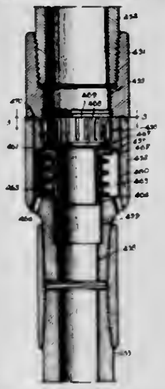
1. A horizontal earth boring machine comprising a power plant assembly including an elongated frame, an engine mounted on said frame, a change speed transmission unit driven by said engine, a gear driven by said transmission unit, an engine driven water pump and an engine driven winch mounted on said frame, a culvert section detachably secured to said power plant frame and projecting from one end of the latter, a tubular shaft extending through said conduit section, supporting spiders on said shaft at spaced apart locations therealong engaging the inner surface of said conduit section to maintain said shaft centered in the latter, a gear on one end of said shaft meshing with said transmission driven gear for rotating said shaft, a boring head on the other end of said shaft disposed contiguous to the adjacent end of said culvert section, conduit means connecting said water pump to the bore of said tubular shaft at said one end of the latter,



water jet nozzles on said shaft at spaced apart locations therealong inclined toward said one end of the shaft for flushing earth through said culvert section from said boring head, auger sections on said shaft at spaced apart locations therealong, and a cable wound at one end on said winch and connectable at its other end to a fixed object to feed said boring machine into a tunnel as said winch is driven by said engine.

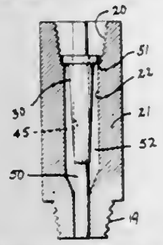
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**2,647,727**
**PIPE RELEASING MEANS**
**Charles R. Edwards, Houston, Tex.; Frances Robertha Edwards, executrix of Charles Ross Edwards, deceased**
**Application April 27, 1945, Serial No. 590,682, which is a division of application Serial No. 334,947, May 13, 1940. Divided and this application April 20, 1951, Serial No. 227,861**
**5 Claims. (Cl. 255—28)**



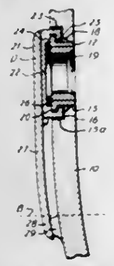
5. A by-pass valve device comprising a tubular housing including upper and lower portions and having an enlarged bore at the upper end of said lower portion, ports in said housing leading into said enlarged bore, an annular valve seat at the lower end of said upper housing portion, a valve seating upon said valve seat including a sleeve slidably mounted in the lower end of said lower housing portion, said sleeve having a diameter substantially less than that of said enlarged bore, and a spring mounted around said sleeve and normally urging said valve upwardly into seating position.

**2,647,728**
**INSIDE BLOWOUT PREVENTER**
**Alonzo L. Smith, Houston, Tex.**
**Application November 3, 1947, Serial No. 783,770**
**3 Claims. (Cl. 255—28)**



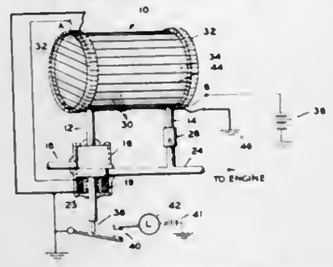

1. An inside drill pipe automatic blowout preventer for insertion in the drill pipe employed in the rotary method of well drilling to close the lower end of the pipe and prevent an up-flow of fluid during the drilling operation comprising, a sub section of pipe forming a part of said drill pipe with pin and box threads thereon, a longitudinal passage extending throughout said sub section and including a portion between said pin and box threads, whose inside wall is spaced from a flexible lip type resilient sleeve valve portion of said preventer, a shoulder at the upper end of said passage portion adjacent said box threads, said sleeve valve having a reinforced radially extending flange thereon to engage and seat on said shoulder and to be held thereon by the pin end of the adjacent drill pipe section and having a reinforced skirt portion extending downwardly into said passage to create a pressure area in the passage and around the outside of said skirt below said shoulder, said skirt portion comprising a gradually thinning wall section terminating at its lower end in a relatively thin flexible lip end, said end normally remaining open for the movement therethrough of drilling fluids or instruments employed in the drilling and investigation of the well, said lip end being of such flexibility as to close upon any up-flow of fluid in said sub section into the pressure area around the exterior of the sleeve to automatically prevent such up-flow and blowout.

**2,647,729**
**WEAR INDICATING DEVICE FOR DRILL BITS**
**Daniel L. Del'Homme, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas**
**Application September 22, 1949, Serial No. 117,127**
**6 Claims. (Cl. 255—61)**



1. In combination, a drill bit having cutting elements and also having an opening in its wall, a closure member for said opening normally preventing flow of pressure drilling fluid from within the body through the opening, coacting means on the closure member and the bit body for connecting the member in a position closing the opening, said coacting means being disengageable upon rotation of the member relative to the body and a fastening element secured to the closure member and to the bit body for holding the closure member against rotation, said fastening element being adapted to be disconnected from the bit body by the abrasive action of the formation when the cutting elements of the bit have been worn to a predetermined point whereby the closure may be rotated to disengage the coacting means and thereby uncover the opening to allow escape of the pressure drilling fluid through said opening.

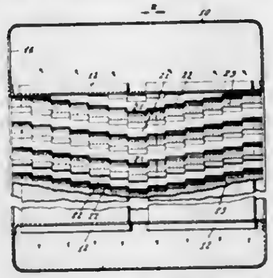
**2,647,730**
**OIL COOLER PROTECTIVE MEANS**
**Walter D. Teague, Jr., Alpine, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware**
**Application July 22, 1949, Serial No. 106,222**
**6 Claims. (Cl. 257—2)**




1. In an engine oil system for aircraft, the combination comprising a radiator including an inlet and an outlet, a transfer valve upstream of said radiator inlet, said transfer valve having an inlet and first and second outlets, an inlet conduit connecting said transfer valve inlet to a source of oil for the engine, a first outlet conduit connecting said first transfer valve outlet to the engine, a second outlet conduit connecting said second transfer valve outlet to said radiator inlet, a solenoid normally energized to affect said transfer valve so as to close said first transfer valve outlet and open said second transfer valve outlet, an outlet line leading from said radiator outlet to the engine, check valve means in the outlet line preventing back flow from the engine to said radiator, a bare wire casing forming a continuous electrical circuit encompassing said radiator, said circuit connected to the solenoid of said transfer valve and to a source of electrical potential, and spring biasing means to operate said transfer valve so as to open said first outlet conduit and close said second outlet conduit upon the interruption of said circuit and the de-energization of said solenoid to thereby cause the oil to by-pass said radiator and flow directly to the engine.

**2,647,731**
**RADIATOR CORE CONSTRUCTION**
**Edmund Ludlow, Columbus, Ind., assignor to Arvin Industries, Inc., Columbus, Ind., a corporation of Indiana**
**Application August 17, 1951, Serial No. 242,281**
**3 Claims. (Cl. 257—130)**

1. A heat-transfer element for use in a heat-exchanger, comprising an elongated metal strip provided with transversely extending rows of parallel, longitudinally extending slits of substantially equal length, adjacent slits of each row being offset from each other longitudinally of the strip for a distance equal to a small fraction of the slit-length, the metal between adjacent slits and between the end slit of each row and the adjacent strip-edge being offset from the plane of the strip to form similar channel-like



rib positions, adjacent rib-portions being offset from each other by a distance substantially equal to the offsetting of adjacent slits, the offsetting of the slits and ribs continuing in one direction until at the center of the strip the aggregate amount of offsetting is at least equal to the width of the rib-portions, the offsetting then proceeding similarly but in the opposite direction for the balance of the strip-width.



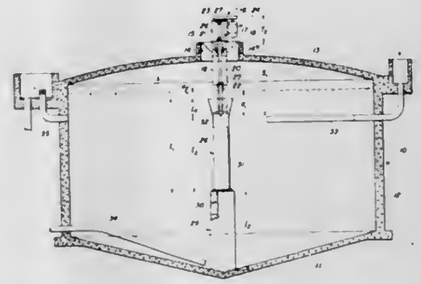
**2,647,732**
**FLUID MIXING CHAMBER**
**James O. Jarman, Colorado City, Tex.**
**Application March 13, 1952, Serial No. 276,348**
**2 Claims. (Cl. 259—4)**



1. A fluid mixing device comprising a tubular intake chamber, a reduced connection to said chamber, a circular plate secured to said inlet chamber, an annular member, complementary grooves in said plate and said member, a sealing ring seated in said groove, a second plate complementary groove in said member and said second plate, a sealing ring seated in said groove between said member and said second plate, tensioning means drawing said plates into sealing relation with said member, an inlet passage in said member, a plurality of tubular passages extending from said intake chamber and terminating adjacent to and tangential with the inner surface of said member, said second plate having an axial passage therein, a tubular outlet chamber connected to said plate in communication with said passage, a reduced connection to said outlet chamber.

**2,647,733**
**AGITATOR DEVICE FOR DIGESTER TANKS**
**John H. Knowles, Larchmont, and William G. Sutcliffe, Harrison, N. Y., assignors to The Dorr Company, Stamford, Conn., a corporation of Delaware**
**Application May 29, 1952, Serial No. 290,718**
**4 Claims. (Cl. 259—108)**

1. In combination with a closed digester tank having a top provided with an opening adapted to have extending therethrough a vertical agitator-propeller shaft in gas sealing relationship with the edge of said opening, an individually powered agitator-propeller unit comprising a vertically extending shell structure surrounding an intermediate portion of the length of the agitator shaft and extending from said opening downwardly into the tank, said shell structure comprising a vertical body portion, a top closure plate having a central opening and being rigidly and sealingly connected with the body portion to provide a flange portion for connection with the edge portion of said first mentioned opening, an auxiliary closure plate with an upper shaft bearing detachably mounted upon said top closure plate, a detachable bottom closure plate with bottom shaft bearing for closing the bottom end of said body portion, said shaft being rotatable in said upper and bottom bearings, means for securing the shaft against any substantial vertical axial displacement relative to said bearings, a gas sealing compartment formed in and by the upper end portion of said shell structure and comprising an intermediate an-

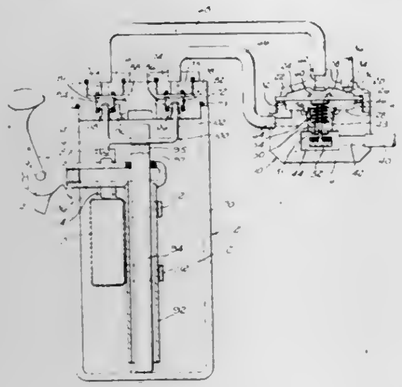


nular bottom portion disposed intermediate said bearings and extending along and inwardly from the inner face of said body portion of the shell structure to provide an opening for the shaft, a vertical upwardly extending boot surrounding the shaft in spaced relationship therewith to form with said intermediate bottom portion and with the upper portion of the shell structure an annular liquid receiving sealing chamber, a downwardly open bell-shaped sealing member surrounding said boot and having fixed gas sealing relationship with the shaft to rotate therewith, said bell-shaped sealing member being adapted to be immersed in gas sealing liquid contained in said annular sealing chamber, said shaft together with said bell-shaped sealing member being upwardly removable through said top closure plate after detachment therefrom of the auxiliary closure plate, power drive means operatively associated with the upper end portion of said shaft for driving the same, mounting means rising rigidly from said auxiliary closure plate for carrying said power drive means, and an agitator-propeller member provided upon the lower end of said shaft.

**2,647,734**
**HOUSEHOLD CARBONATOR**
**Andrew J. Nicholas, Farmington, Conn.**
**Application March 14, 1951, Serial No. 215,573**
**13 Claims. (Cl. 261—19)**

5. Carbonating apparatus comprising means defining a carbonating chamber having inlets connectible to a source of pressured water and

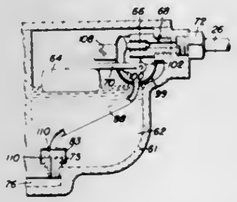
carbon dioxide gas, respectively, flow control means having an inlet in said chamber and an externally disposed dispensing outlet, and valve



means disposed in said chamber responsive to flow in said control means to close the chamber inlets.

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**2,647,735**
**ATTACHMENT FOR CARBURETORS**
**Earl L. Haynie, Berwyn, Ill.**
**Application November 21, 1950, Serial No. 196,829**
**6 Claims. (Cl. 261—72)**

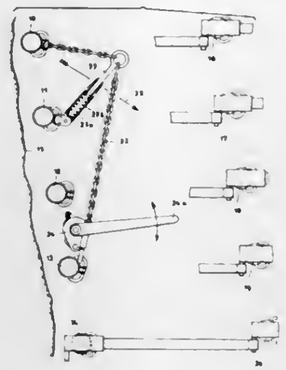


6. In an engine multi-fuel supply system having a single fuel line for conducting at different times more than one variety of fuel, the improvement comprising a carburetor having a bowl with a float valve therein, and a jet to conduct fuel from the bowl, a coupling connecting the fuel line to the float valve to control the ingress of fuel to the bowl, and means forming a passage to conduct fuel directly from the float valve to the vicinity of the jet.

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**2,647,736**
**MEANS FOR REMOVING PIT PROPS**
**Wilhelm Loebbe, deceased, late of Oberaden, Germany, by Armin Dieter Löbbe, administrator, Oberaden, Germany**
**Application April 6, 1950, Serial No. 154,414**
**In Germany May 18, 1949**
**4 Claims. (Cl. 262—1)**

1. Device for removing pit props in mine workings comprising an extraction cable with a prop attaching device positioned at each end, a strut with a prop attaching clamp at one end and attached at the other end to said extraction cable between its ends, a jack positioned for taking up said extraction cable, and an elastic element



positioned to exert an elastic force against the taking up of said cable.

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**2,647,737**
**CUTTER BIT AND HOLDER THEREFOR**
**Henry M. Stephens, Montgomery, W. Va., assignor to Marathon Coal Bit Company, Inc., Montgomery, W. Va., a corporation of West Virginia**
**Application July 26, 1950, Serial No. 175,987**
**2 Claims. (Cl. 262—33)**



2. A coal cutting implement comprising a cutter bit formed of substantially flat stock and having the form in plan view of a pair of trapeziums arranged with adjacent unparallel edges thereof in integral connection with respect to each other, and a holder for said cutter bit having a head and a shank integrally extending from the head, said holder having a socket provided therein opening longitudinally through the head and extending longitudinally of the shank and opening at only one long edge of said shank, said bit being insertable into the socket in a longitudinal direction with respect to the head, the base of said socket being undercut and the inserted end portion of said bit conforming to said undercut and prevented thereby from lateral displacement with respect to said holder, a portion of a long edge of said bit projecting from said socket beyond the said edge of said shank.

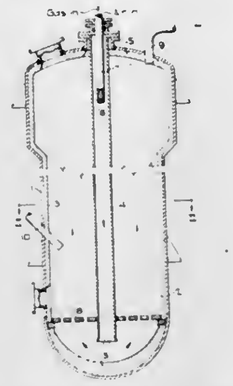
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**2,647,738**
**HEATING POWDERED MATERIAL**
**Richard P. Trainer, Amityville, N. Y., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware**
**Application December 8, 1950, Serial No. 199,799**
**2 Claims. (Cl. 263—43)**

1. An apparatus for heating powdered solids by direct contact with hot combustion gases which comprises in combination a vertically disposed cylindrical shell with top and bottom closures, said cylindrical shell defining a heating space, a refractory lining in the bottom closure, a conduit open at the bottom depending within



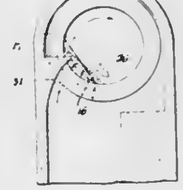
said heating space from the top closure and extending downward to a point near the refractory lining of the bottom closure, a burner suspended



near the top and within said conduit, and a gas distributing grid extending across the cross-sectional area of said shell at a point near the bottom and above the lower end of said conduit.

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**2,647,739**
**METHOD FOR CALCINATION**
**Frank R. Kemmer, Larchmont, N. Y.**
**Application October 12, 1950, Serial No. 189,749**
**1 Claim. (Cl. 263—52)**

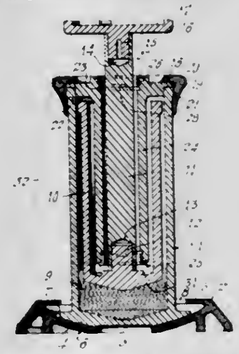


The method of heat treating material in an inclined rotary kiln which comprises advancing the material with inclined exposed surface through the kiln by rotation thereof, introducing into the lower quadrant of the firing end of the kiln, which quadrant contains the material to be treated, a flame that extends generally parallel to the length of the kiln, that is of the general shape of a band, that is disposed in close proximity to the inclined surface of the said material, and that is tilted so that the flame is approximately parallel to the angle of repose of the said material, and introducing and deflecting a protective stream of air between the said band and material, so that the stream is guided into a path that is approximately parallel to the flame and surface of the said material, the introduction of the air serving to prevent contact of the flame with the material.

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**2,647,740**
**HYDROSTATIC WEIGHING SCALE**
**Alexander F. Jackson, East Orange, N. J.**
**Application June 13, 1950, Serial No. 167,756**
**2 Claims. (Cl. 265—43)**

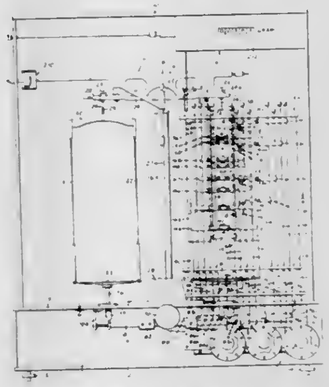
1. A hydrostatic weighing scale comprising an outer vessel containing liquid and having a tight fitting cover provided with a central opening, a cup-shaped plunger inside said vessel having its bottom end submerged in said liquid and having a coaxial stem connected at one end to the interior of the bottom wall of the plunger in spaced relation to the side wall of the plunger and extending vertically upwardly through said opening in the cover with its upper end projecting above said cover and formed to support an article to be weighed, a graduated scale on the plunger to coact with the level of said liquid for measuring the weight of the supported article, and a centering and guiding tube coaxial with said opening depending from said cover, said



tube extending into said plunger in closely spaced telescopic relation to said stem with its inner end close to the bottom wall of the plunger, and guide elements spaced longitudinally of said stem, one guide element being mounted at the outer end of said cover and extending into said opening, and the other guide element being mounted at the inner end of said tube on the interior thereof, both guide elements having portions disposed concentrically with and nicely frictionally contacting said stem to provide for sliding and rotating motions of the stem to center and guide the stem in such motions.

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**2,647,741**
**ANALYTICAL BALANCE**
**Bernard Wasko, Bronx, N. Y., assignor to Voland and Sons, Inc., New Rochelle, N. Y., a corporation of New York**
**Application July 26, 1950, Serial No. 175,934**
**12 Claims. (Cl. 265—54)**

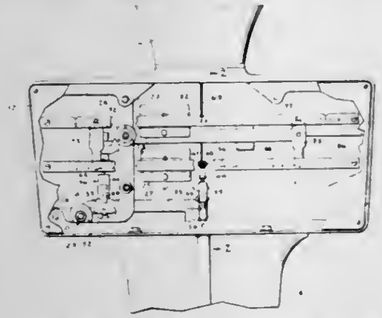


1. In a balance having a balance beam, scale pans supported on said beam and equilibrium

indicating means associated with said beam; the combination of a plurality of weight-receiving hooks supported by said beam adjacent one end thereof, a plurality of vertically movable rods adjacent to said hooks, a support for a weight fixed to each rod and movable downwardly therewith to place the weight thereon on one of said hooks and upwardly therewith to remove the weight from the hook, a movable control member adjacent the lower ends of said rods, said control member having groups of apertures therein movable selectively into alignment with the lower ends of said rods to allow them to move downwardly to place weights on said hooks singly and in combinations, and means for lowering said rods relative to said control member to place weights on said hooks corresponding to the apertures in said control member and aligned with said rods and for lifting said rods to remove weights from said hooks.

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**2,647,742**
**WEIGHING SCALE**
**Lester D. Singleton, Rutland, Vt., assignor to The Howe Scale Company, a corporation of Vermont**
**Application June 17, 1946, Serial No. 677,222**
**6 Claims. (Cl. 265—61)**

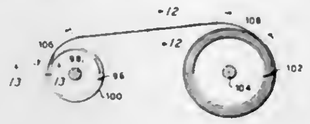


1. In a weighing scale of the type having main levers, load offsetting means, a housing, a support consisting of a pair of spaced brackets each having a vertical member fixed in said housing, anti-friction bearings in said vertical members, a tare lever of the first order pivotally mounted in the anti-friction bearings in said vertical members, a tare lever of the third order pivotally mounted in said anti-friction bearings, tare beams carried by said lever of the first order, a poise slidably mounted on each of said tare beams and a knife-edge pivot on each of said tare levers; the combination therewith of a loop assembly connecting said tare levers, said loop assembly comprising two loops each having a bearing member cooperating with the knife-edge pivot on each of said tare levers and means for adjustably connecting said loops, swivel means for connecting said tare lever of the third order to said load offsetting means, and a shackle for connecting said latter tare lever to said main levers.

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**2,647,743**
**SPRING DEVICE**
**William J. Cook, Lansdale, Pa., assignor, by mesne assignments, to Eastern Metals Research Co. Inc., New York, N. Y., a corporation of New York**
**Application June 29, 1949, Serial No. 102,117**
**4 Claims. (Cl. 267—1)**

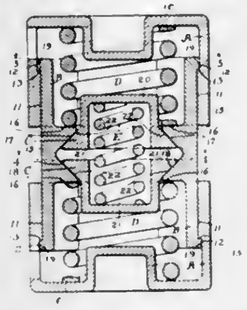
1. A spring device comprising a pair of mandrels, means supporting said mandrels for rotation, a resilient metal strip, the opposite ends of said strip being coiled on said mandrels, each increment of said strip being set to naturally



assume the shape of a portion of a circle, the radii of said circles being sufficiently small so that the coiled increments will fit tightly against the surfaces of said mandrels.

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**2,647,744**
**SHOCK ABSORBER FOR RAILWAY CAR TRUCKS**
**Arnold E. Dentler, Western Springs, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application November 1, 1951, Serial No. 254,385**
**6 Claims. (Cl. 267—9)**



1. In a friction shock absorber, the combination with a pair of friction casings, closed at their outer ends, and having interior friction surfaces at their inner ends; of a plurality of lengthwise extending friction shoes having their opposite ends telescoped within said casings, respectively, in sliding frictional engagement with the friction surfaces of the latter; springs within said casings at opposite ends of the mechanism, each spring being buttressed at one end against said shoes and at the other end against the closed end of one of said casings; a pair of wedge caps in wedging engagement with said shoes; and yielding means between said caps for forcing said caps apart.

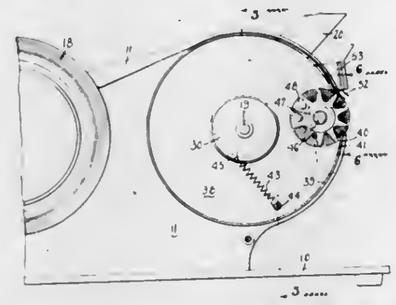
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**2,647,745**
**DISPENSER FOR PRESSURE-SENSITIVE TAPE**
**Oscar P. Erhardt, Derby, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut**
**Application September 26, 1951, Serial No. 248,330**
**10 Claims. (Cl. 271—2.3)**

1. In a machine for dispensing pressure-sensitive tape, a frame, a feed member movably mounted on the frame, said member having spaced feeding elements extending across the path of, and engaging, the tape, stripping means comprising a shaft, a plurality of stripping elements mounted on said shaft for independent rotation thereon, said stripping elements being disposed in side-by-side relation longitudinally of the shaft, and each of said stripping elements having salient formations thereon engaged by



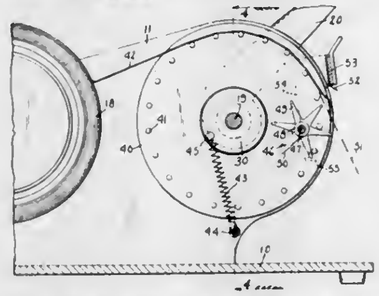
said feed elements and projecting between and beyond the feed elements from the side thereof



opposite that engaged by the tape to effect rotation of the stripping elements.

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**2,647,746**
**DISPENSER FOR PRESSURE-SENSITIVE TAPE**
**Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut**
**Application September 26, 1951, Serial No. 248,395**
**11 Claims. (Cl. 271—2.3)**

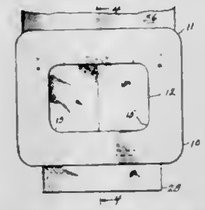


1. In a tape-dispensing machine, a frame, a feeding member carried by the frame having spaced elements each of which extends in a direction across the path of the tape and to which the tape adheres, means for moving said member to effect feeding of the tape by the adherence of the tape to said elements, and a rotatably mounted stripping member on the side of said feed elements opposite that engaged by the tape and having spaced elements each of which extends transversely of the path of the tape and beyond the elements of the feed member and is movable between the elements of said feeding member, and the elements of the feeding member engaging those of the stripping member to actuate the latter.

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**2,647,747**
**FOOTBALL TARGET GAME APPARATUS**
**Harold E. Kenney and Armond H. Seidler, Urbana, Ill.**
**Application March 15, 1950, Serial No. 149,824**
**10 Claims. (Cl. 273—95)**

1. A game goal comprising a substantially vertical board having an opening through which a ball is adapted to be thrown, a structure fixed to said board above said opening and projecting substantially horizontally rearwardly thereof, and a sleeve suspended from said structure and open at its front for the reception of a ball passing through said opening, said sleeve having a wall portion rearwardly of said opening and



at least coextensive therewith to cushion a ball striking thereagainst, and the bottom of said sleeve being open whereby the ball is adapted to fall through the bottom of said sleeve.

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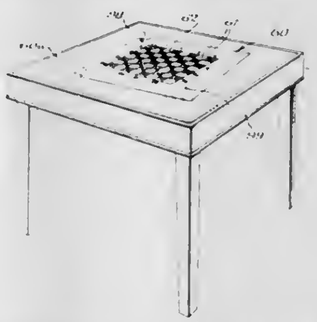
**2,647,748**
**DART GAME**
**Lon H. Barringer, Jr., Charleston, W. Va.**
**Application June 5, 1951, Serial No. 230,013**
**1 Claim. (Cl. 273—95)**



A game apparatus comprising a receptacle having a bottom provided on the surface thereof with a target, a dart to be cast into the receptacle consisting of a metallic shank blunt at its free end and having a head of buoyant material such as cork at the other end thereof, the receptacle being substantially filled with a suitable liquid such as water through which the dart, when cast into the receptacle, must pass on its way to the bottom of the receptacle and target.

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**2,647,749**
**INSTRUCTION ACCESSORY FOR CHESS GAMES**
**George F. Wales, Kenmore, N. Y.**
**Application March 20, 1950, Serial No. 150,671**
**12 Claims. (Cl. 273—136)**



1. Game apparatus of the character described comprising a support, a game board carried by said support and having a plurality of apertures arranged therein in a pattern corresponding to positions to which game pieces may be moved,

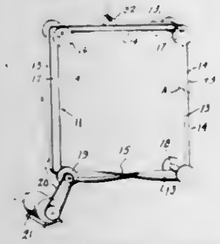
a supply roller and a take-up roller rotatably mounted on said support in parallel, spaced relation, a record strip secured at opposite ends to said rollers and movable therebetween under said board, means for rotating said rollers to advance said record strip step-by-step to move indicating elements carried thereby into registration with said apertures and in so doing indicate the moves of said game pieces, said means including a shaft, a pair of oppositely-extending arms carried by said shaft, a movable element at one side of said game board which cooperates with one of said arms to rock said shaft in one direction, a movable element at the opposite side of said board which cooperates with the other of said arms to rock said shaft in the opposite direction, and means connecting said shaft to one of said rollers, whereby the rocking movements of said shaft in opposite directions will turn said one roller to advance said record strip step-by-step in the same direction.

2,647,750

## TWISTED LOOP MAGNETIC RECORDER

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois

Application November 22, 1947, Serial No. 787,522
2 Claims. (Cl. 274—4)



2. A magnetic recorder having an endless magnetic tape record member including a non-magnetic body portion and a pair of magnetic sound tracks thereon, each of said tracks extending not more than one-half the width of the body portion and being disposed on opposite surfaces and adjacent opposite sides of said body portion, said record member having a half-twist therein thereby providing an endless magnetic recording track, and a transducer head of substantially one-half the width of the record member operatively positioned with respect to said endless magnetic recording track whereby an effective track length of substantially twice the length of the record member may be provided to said transducer head without relative lateral movement between said transducer head and said record member.

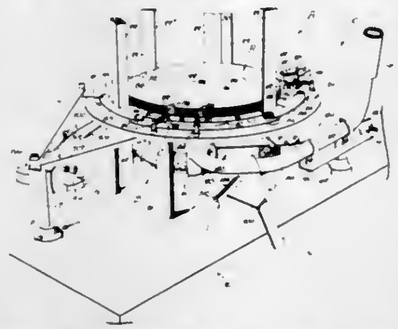
2,647,751

## SOUND RECORDING AND REPRODUCING APPARATUS

Alexander Lissiansky, now by change of name Alexander Lissance, New York, N. Y., assignor to International Mutoscope Corporation, Long Island, N. Y., a corporation

Application July 5, 1947, Serial No. 759,152
7 Claims. (Cl. 274—10)

1. In phonographic apparatus, a magazine for a vertical stack of record discs having different spaced cut-out portions, means at the lower end of said magazine engaging and supporting the lowermost disk therein at the peripheral margin thereof and being operable to release said lowermost disc for discharge from the magazine, a turntable beneath said magazine, said turntable comprising complementary sections of which one section has spaced driving elements and is raisable into engagement with a portion inside said peripheral margin of the lowermost disc in the stack to such an extent as to assume the sole support of all stacked discs, and is lowerable to



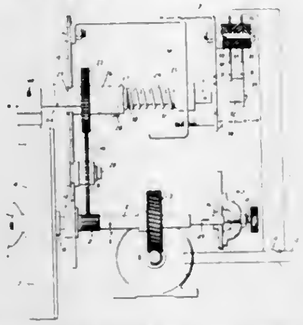
transfer a released disc onto said turntable, means arresting said one section in a predetermined angular position when being raised from the other section, and means registering with cut-out portions of the stacked discs to guide the latter onto the raised section in an angular position in which other cut-out portions thereof register with said driving elements.

2,647,752

## DRIVE MECHANISM

Leonard M. Barker, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application August 23, 1950, Serial No. 180,973
2 Claims. (Cl. 274—20)



1. Transducing apparatus comprising a cylindrical drum rotatable about an axis carrying on its surface a message recorded in a helical track, a driven member rotatable about an axis, a drive shaft positioned coaxially with said driven member and free to rotate relative to said driven member about said last named axis and free to move axially with respect to said driven member, means for driving said driven member and said drum about their respective axes, a transducing head carried by said shaft and free to rotate into engagement with said surface, a helical driving cam carried by said driven member, a mating member fixed to said shaft, and biased into frictional engagement with said cam for driving said shaft axially to cause said head to scan said surface, said frictional engagement creating a torque directed to press said transducer head into engagement with said surface carrying said message upon normal forward rotation of said driving means.



2,647,753

## PHONOGRAPH PICKUP MOUNTING

Peter C. Goldmark, New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York

Application September 22, 1948, Serial No. 50,614
8 Claims. (Cl. 274—23)



1. In a phonograph having a horizontally-disposed turntable rotatable about a vertical axis for receiving sound records of the disk type, in combination, a reproducer arm, a support mounting for said arm having an axis of rotation allowing lateral rotation of the arm, and a stylus mounting on said arm at a position remote from said support mounting, said support mounting being positioned with respect to the turntable to allow the stylus mounting to move in an arc thereover for reproducing records, said axis of rotation being tilted outwardly at a small angle to the vertical with the plane perpendicular to said axis sloping upwardly and inwardly along the playing arc of travel of said stylus mounting so that the weight of the arm produces a component of force at said stylus mounting in the outer direction of said playing arc, whereby stable tracking without jumping grooves is improved.

2,647,754

## REPRODUCER MOUNTING

Marvin F. Royston, Poughkeepsie, N. Y., assignor to Daystrom, Incorporated, Elizabeth, N. J., a corporation of New Jersey

Application November 28, 1947, Serial No. 788,399
12 Claims. (Cl. 274—23)



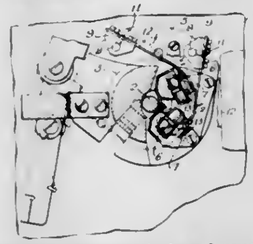
1. A phonograph reproducer mounting for reproducing sound from record grooves which are substantially horizontal at the point of reproduction comprising a fixed support, a movable support member pivoted to said fixed support about an axis inclined backwards with respect to the reproducer mounting in playing position at a substantial acute angle with the normal to the plane of the record grooves at the point of reproduction, and a generally horizontal arm having a free front end bearing a reproducer head and pivoted near the rear end thereof to said movable support member about an axis allowing movement of said head in the direction normal to said plane of the record grooves.

2,647,755

## ADJUSTMENT PROVIDING ELECTROMAGNETIC HEAD MOUNT

Malcolm G. Townsley, Park Ridge, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Application June 9, 1951, Serial No. 230,762
4 Claims. (Cl. 274—24)



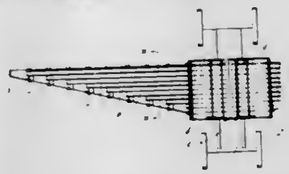
1. In an electromagnetic head mount, the combination of an electromagnetic head carrier, a spring support arm having a portion thereof overlying said carrier, the opposing surfaces of said carrier and arm comprising a convex and a flat surface, and spaced securing devices for securing said carrier and arm together in the direction engaging said surfaces and disposed on opposite sides of the medial portion of said convex surface and comprising adjustable means providing angular adjustment of said head with respect to said arm in cooperation with said convex and flat surfaces and flexure of said support arm portion.

2,647,756

## DISTRIBUTING DEVICE FOR POWDERED OR GRANULAR MATERIAL

Barteld Pieter Allersma, Den Andel, Netherlands

Application May 16, 1949, Serial No. 93,608
In the Netherlands May 22, 1948
1 Claim. (Cl. 275—2)



In a vehicle provided with a distributing device for powdered or granulated materials arranged below the discharge opening of a container and extending transversely of the vehicle, a distributing device comprising a plurality of endless belts of mutually different distributing range, said belts being trough shaped and being disposed one behind another in the direction of travel of the vehicle, and capping plates over the upstanding edges of the trough shaped belts.

2,647,757

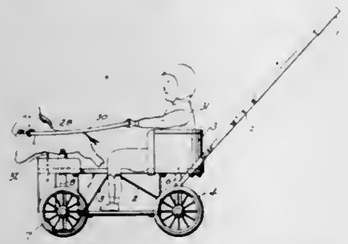
## BABY STROLLER

Frederick R. Kreeger, Shaker Heights, Ohio

Application December 12, 1950, Serial No. 200,464
3 Claims. (Cl. 280—1.22)

1. In a baby stroller of the class described, in combination, a seat member, front and rear supporting wheels connected thereto, an axle carrying a pair of the front supporting wheels and movable therewith, an elongated hollow bearing member extending through the seat member, a push rod mounted in said bearing member for

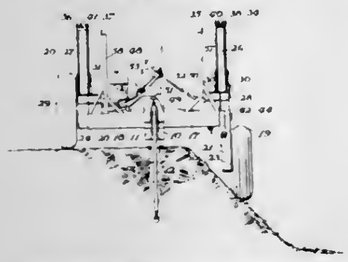
upward and downward movement relative to said seat, a figure supported on the upper end of said push rod, a cam member carried by said axle, and a roller member carried at the lower end of said push rod in engagement with said cam member for causing said movement of the push rod upon rotation of said axle, an abutment member at the lower end of said push rod, and a coil spring encircling the portion of said bearing member extending below said seat member, the upper end of the spring engaging the seat and the lower end of the spring engaging said abutment to urge the push rod downwardly for maintaining engagement of the roller with said cam, and a frame member supporting said axle, said frame member being secured to said



seat member and extending downwardly therefrom, adjacent one front wheel, to a point below said axle and the cam member thereon, thence extending transversely of the vehicle directly below the axle and said cam member to a point adjacent the other front wheel, and thence extending upwardly to point of securement to said seat member, and a brace member secured to the seat member intermediate the front and rear thereof midway between opposite sides thereof and extending downwardly and forwardly therefrom and secured to the transversely extending portion of said frame member midway between opposite sides thereof, and thence extending upwardly and forwardly therefrom in front of the cam member to provide a guard portion for said cam member.

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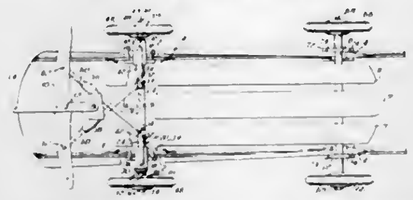
**2,647,758**
**ELEVATABLE AND TILTABLE DITCHING AND CABLE LAYING MACHINE**
**Francis B. Ryan, Chariton, Iowa**
**Application October 16, 1950, Serial No. 190,362**
**2 Claims. (Cl. 280—6)**



1. In a machine designed primarily for the support of a ditching blade or similar tool, a main frame comprising two horizontally disposed, closely aligned parallel beams, lateral beams affixed laterally of said beams and extending outwardly and rearwardly therefrom in parallel relationship thereto at their rearward extremities, an axle extending laterally through said parallel beams and said lateral beams, horizontal and flattened wheel frames rotatably mounted over the lateral extremities of said axle bearing against said lateral beams at their inner, forward extremities and extending rearwardly at the sides of said lateral beams in parallel relation thereto, wheels rotatably mounted on axles at the lateral rear extremities of said horizontal wheel frames, hydraulic cylinder units pivotally mounted at their lower extremities on the rear upper surfaces of said lateral beams and extending upwardly therefrom, pistons and piston rods slidably operating within said hydraulic cylinder units and pivotally connected to said wheel frames adjacent their rearward extremities, control means for said hydraulic units whereby the positions of said wheels with respect to said lateral beams may be independently controlled.

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**2,647,759**
**ATTACHMENT FOR CONVERTING SLEDS TO WHEELED VEHICLES**
**Alva V. Moffitt, Arkansas City, Kans.**
**Application February 14, 1952, Serial No. 271,475**
**3 Claims. (Cl. 280—8)**



1. An attachment for converting a sled having runners to a wheeled vehicle, comprising a substantially rectangular frame adapted to be secured to the runners of the sled, said frame comprising horizontally extending upper and lower webs, each of said webs being made in two parts, means for variably axially positioning the two parts of the webs with respect to each other, for thereby varying the effective length of said frame, thereby forming two open-ended U-shaped frames, each of which is adapted to fit over one of the runners and thereafter to have the respective upper and lower parts of said webs secured together for accommodating runners located at different distances apart, clamps carried by said lower web adapted to be secured to the runners of the sled, an axle rod pivotally mounted near each end of said frame to swing about a vertical axis, said axle rods each comprising a lower horizontally extending axle and an upper horizontally extending control arm interconnected by a vertically extending portion, diagonally extending control rods crossing each other and respectively connected to the inner ends of said control arms and adapted to be connected to a steering bar on the sled, and a wheel mounted on each of said axles.

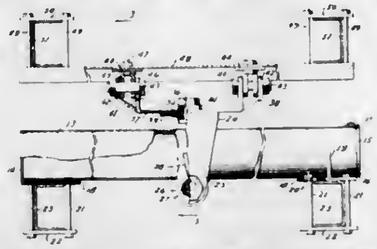
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**2,647,760**
**SADDLE MOUNT**
**Donald Mettetal, Jr., Chicago, Ill., assignor to Truck Service, Inc., Chicago, Ill., a corporation of Illinois**
**Application July 20, 1949, Serial No. 105,690**
**3 Claims. (Cl. 280—33.05)**

1. A saddle mount for supporting in elevated position one end of a towed vehicle on the rear end of a towing vehicle, said saddle mount comprising transversely extending elongate members, means for securing one of said elongate



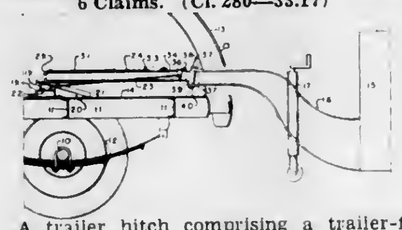
members to the side frame members of each vehicle, depending plate members secured to the sides of the lower one of said elongate members, a pivot member secured in said plate members and extending transversely of said elongate member, an inverted U-shaped member having its legs journaled on said pivot member, a pair of



laterally spaced brackets secured to the upper one of said elongate members, and a U-shaped member having its upstanding legs pivotally connected to said pair of brackets, said U-shaped members having the bight portions thereof in juxtaposed relation and a pivot member connecting said bight portions.

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**2,647,761**
**TRAILER HITCH**
**Fred E. Kentz, Denver, Colo.**
**Application April 25, 1952, Serial No. 284,266**
**6 Claims. (Cl. 280—33.17)**

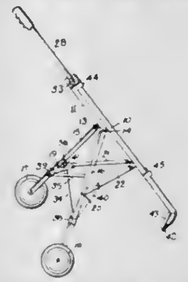


1. A trailer hitch comprising a trailer-fixed tongue member, a towing bar, a beam adapted to be secured to and transversely of a towing vehicle, a socket fixed to and opening upwardly from a midportion of said beam, a ball fixedly outstanding laterally from one end of said towing bar for removable and replaceable coaction with said socket, links hinged to and adjacent the ends of said beam detachably engageable in convergent relation with the end of said towing bar remote from said ball, whereby to detachably associate said towing bar in maintained perpendicular relation with said beam for limited oscillation of its free end through an arc in a plane perpendicular to that of the beam and for limited angular play in the plane perpendicular to that of its oscillation, and a hinge characterized by an axis of articulation inclined in the longitudinal vertical plane of said tongue member intercoupling the free end of the latter and the end of the towing bar remote from said beam with the hinge axis lower end advanced relative to its upper end.

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**2,647,762**
**FOLDING GOLF BAG CARRIER**
**William H. Jamieson and William H. Jamieson, Jr., Patchogue, N. Y.**
**Application April 20, 1950, Serial No. 156,988**
**2 Claims. (Cl. 280—41)**

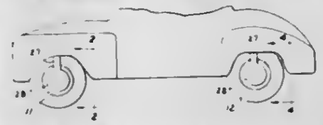
1. A golf bag carrier comprising a frame, wheeled legs pivoted to said frame, links pivotally connected to said legs, a slide plate slidably connected to said frame, said links being pivotally connected to said slide plate, a sleeve slidably connected to each of said legs, additional links



pivotally connected to said sleeves and to said first-mentioned links, each leg having a bracing link pivotally connected thereto and pivotally connected to the sleeve connected to the other leg.

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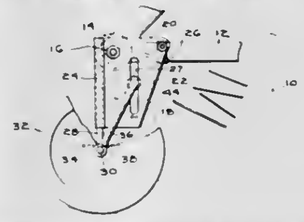
**2,647,763**
**VEHICLE WHEEL AND TIRE ANTITHEFT DEVICE**
**Albert Hudson, Detroit, Mich.**
**Application January 20, 1951, Serial No. 206,948**
**2 Claims. (Cl. 280—150)**



1. A vehicle wheel protector comprising a wheel overhanging bracket secured to the vehicle frame and projected laterally outward centrally above the vehicle front wheel, a bracket extension block swivelly mounted upon the outer end of said bracket and having a transverse vertical slot therein, a circular hub cap cover spaced from and in horizontal registry with the wheel hub cap, an upwardly extending supporting arm on said cover slidably projected within said transverse slot, a lock positioned within said block and having a locking element retainingly engageable with said arm for securing the same within said slot, and an L-shaped tie bar extending over said wheel and interconnecting the front wheel support and said block whereby said block will turn simultaneously with turning of said front wheel.

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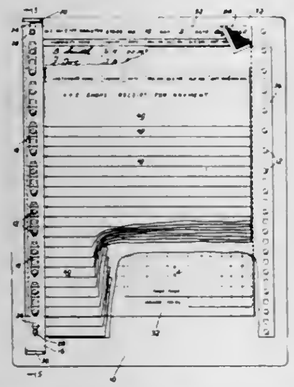
**2,647,764**
**STABILIZING WHEEL ATTACHMENT FOR BICYCLES**
**Paul V. Anderson, Gardner, Mass.**
**Application November 17, 1951, Serial No. 256,889**
**6 Claims. (Cl. 280—293)**



1. A wheel attachment for a bicycle comprising a plate for securement to a wheel hub or

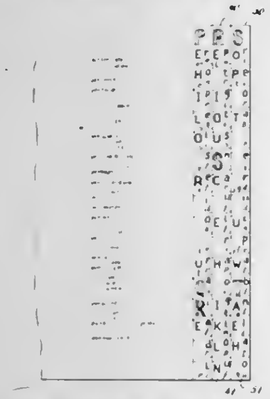
the like of the bicycle, a tubular guide on the plate, a rod slidable in the guide, an axle on the rod extending at an angle to the rod, and a wheel on the axle, a brace secured to the axle in spaced relation to the rod, said brace extending upwardly and forwardly relative to the bicycle, means to adjustably secure the brace to the plate, said means including a slot in the plate and means causing a clamping effect on the brace extending through the slot.

2,647,765
**HOLDER FOR ASSEMBLED SHEETS**
**Hyman Brechner, Tuckahoe, N. Y.**
**Application March 20, 1951, Serial No. 216,517**
**3 Claims. (Cl. 282—29)**



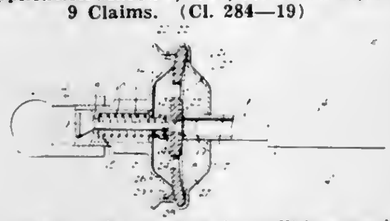
1. A device of the class described, comprising a writing plate having a row of spaced aligned pegs adjacent parallel edges and a removable holding strip of flexible material having openings to accommodate said pegs for securing perforated paper sheets thereon, said openings in said strip comprising elongated slots for embracing a plurality of said pegs in each slot.

2,647,766
**INDEXED BOOK**
**Marcelin Cerdone, Lausanne, Switzerland**
**Application January 8, 1948, Serial No. 1,232**
**In Switzerland January 20, 1947**
**2 Claims. (Cl. 283—43)**



1. A book containing classified matter in tabular form and comprising a plurality of superimposed group of leaves each constituted by superimposed leaves in mutual registration, the groups of leaves having all the same width and being echeloned in a direction away from a common support, at least all but the last one of the superimposed leaves of each group of leaves being cut away along an edge thereof, so as to provide a series of reference-bearing tabs extending in succession substantially from end to end of terraced form from said edge so as to form a thumb index which extends from end to end of said edge of successive groups of leaves throughout the book.

2,647,767
**VALVED PIPE COUPLING FOR SUCTION LINES**
**Austin E. Anderson, Jamestown, N. Y.**
**Application March 4, 1948, Serial No. 12,955**
**9 Claims. (Cl. 284—19)**



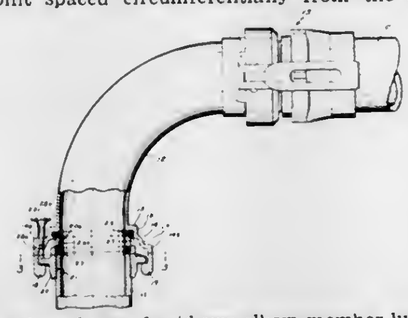
6. A stall cock coupling for milking machine installations, comprising a stall cock opening through a bell, a valve normally closing the stall cock passage and having an actuating part extending into the bell, a hose coupler also having a bell cooperable with the stall cock bell for connecting a milking machine hose to a supply line, the coupler bell having a marginal portion encircling the marginal portion of the other bell and provided with an internal annular seat, and a resilient disk engaged in the bell seat, the coupler having a part to open the valve upon bringing the bells together, the resilient disk being held against the marginal portion of the stall cock bell in air tight relation therewith by the pressure differential acting on the two bells, the marginal portion of the stall cock bell being rolled to seat upon the resilient disk in air tight relation and with sufficient clearance with respect to the encircling marginal portion of the hose coupler bell to enable tilting of the latter upon the rolled margin for breaking the air tight seal in effecting disconnection of the coupler from the stall cock.

2,647,768
**TANK FILL CONNECTION**
**Fred W. Exten, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application May 19, 1949, Serial No. 94,080**
**1 Claim. (Cl. 285—107)**

A tank fill connection between a fill pipe member and an elbow member comprising coacting bayonet joint fittings on the meeting ends of said members including four out-turned radially extending lugs on said fill pipe member spaced 90 degrees apart, two inturned radially extending lugs on said elbow member spaced 180 degrees apart, the lugs on said elbow member being integrally connected therewith, said four lugs on said fill pipe member having circumferentially extending spaces between them wider than the circumferential extent of each of said two lugs on said elbow member whereby said two lugs may pass downwardly through the spaces between said four lugs, said fittings making a fluid tight

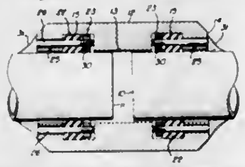


connection between said members, a sealing gasket between said fittings, said four lugs being all inclined in the same direction circumferentially to cam said elbow member fitting downwardly and to pull said fittings together in joint tightening manner by rotation of said elbow member fitting through less than the angular extent of one of said set of four lugs, whereby the elbow member serves as a lever for its rotation, a pin loosely carried by said elbow member fitting at a point spaced circumferentially from the mid-



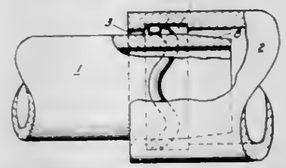
portion of one of said two elbow-member lugs by an amount of approximately 45 degrees, and stop means on said pin holding the lower end thereof at the level of said four fill-pipe-member lugs, whereby when said two elbow-member lugs are entered between any pair of said four fill-pipe member lugs, said pin will be pushed upward by and ride upon one of said set of four lugs and, after joint tightening rotation of said elbow-member, said pin will ride off of the lug it is riding upon and will drop by gravity downwardly between said lugs of said fill pipe member to prevent reverse rotation of said elbow member sufficient to disengage said bayonet joint.

2,647,769
**PIPE COUPLING**
**Joseph B. Smith, Cleveland, Ohio**
**Application March 13, 1951, Serial No. 215,277**
**1 Claim. (Cl. 285—114)**



A pipe coupling comprising a one-piece annular sleeve having a longitudinal bore to receive the end portion of a pipe, said sleeve having an external annular end surface and an internal groove extending radially outwardly from the bore and located at a spaced distance from the said external end surface, said groove having first and second opposing end walls and an annular internal wall extending therebetween, said first end wall of the groove constituting an abuttable shoulder and being spaced at a closer distance from said external end surface than said second end wall, an annular packing member having first and second sides disposed in said groove, said first side of the packing member engaging said abuttable shoulder and said second side constituting a mechanical pressure side, thrust ring means insertable through said bore of the sleeve and having first and second sides disposed in said groove, said first side of the ring means constituting a mechanical pressure face for pressing the mechanical pressure side of the annular packing member, said packing member and said ring means having external surfaces fitting within the annular internal wall of the groove and having internal surfaces defining an annular opening to receive the end portion of a pipe inserted in the coupling, said sleeve having longitudinal openings extending longitudinally from said external end surface and to the first side of the groove, said annular packing member having apertures extending therethrough and being registrable in alignment with the longitudinal openings of the sleeve, mechanical elements in said longitudinal openings and having an outer end portion accessible externally of the sleeve and having an inner end portion extending through the apertures in said packing member and mechanically engageable with said thrust ring means, said inner end portion of said mechanical elements contacting said second side of said groove and pressing the mechanical pressure face of said thrust ring means against the mechanical pressure side of the annular packing member for squeezing said annular packing member radially inwardly against the end portion of a pipe inserted therein, and weld material mechanically connecting and sealing said external annular end surfaces of said sleeve to pipes inserted therein, said weld material covering the outer end portion of the mechanical elements and sealing said longitudinal openings in said external annular end surfaces of said sleeve.

2,647,770
**SEALED TELESCOPIC PIPE JOINT**
**Orion E. Tollefsbol, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**Application October 4, 1950, Serial No. 188,437**
**3 Claims. (Cl. 285—163)**



1. A sealed joint of the character described, comprising, in combination, a first tube, a second tube of larger diameter telescoped about said first tube to form an annular space therebetween, and a continuous, ring-like, hollow, resilient, metallic gasket disposed in its entirety in the annular space between said tubes to form a seal therebetween, the normal uncompressed diameter of said gasket being greater than the distance between the outer surface of said first tube and the inner surface of said second tube so that said gasket is compressed when so disposed in said annular space, said gasket having a serpentine contour formed by axial excursions about its median transverse plane, said gasket being unrestrained in respect to expansion and contraction in an axial direction.

2,647,771
**SHAFT SEAL**
**Lloyd P. Grobel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application November 14, 1949, Serial No. 127,098**
**3 Claims. (Cl. 286—5)**

1. The combination with a shaft having a normal direction of rotation and a wall through

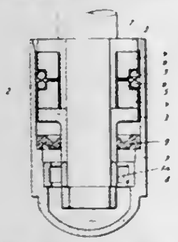
which the shaft projects, of a seal housing having an annular chamber opening onto the shaft, a sealing ring located in said annular chamber and arranged about said shaft and having an annular groove in the inner periphery thereof with said groove defining a land in said ring inner periphery on each side of said groove, means for supplying sealing liquid to said annular chamber and through said ring to said annular groove, spring means for biasing said sealing ring against an inner wall of said annular chamber to prevent leakage between said ring and said wall, said ring having discontinuous grooves in



the ring inner periphery land adjacent said annular chamber inner wall, said grooves being pitched so that for said normal direction of shaft rotation said grooves will act as pump back grooves to reduce sealing liquid flow from said annular groove between said land and said shaft, and said ring having continuous grooves across the opposite land from said annular groove to the outside of said ring with said last mentioned grooves being pitched to provide a relatively greater sealing liquid flow across said land to provide cooling of said ring.

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**2,647,772**
**BEARING SEAL FOR UNDERWATER USE**
**Karl Wernert, Mulheim an der Ruhr, Germany**
**Application December 19, 1949, Serial No. 133,721**
**In Germany October 1, 1948**
**3 Claims. (Cl. 286—8)**



1. In a grease lubricated bearing for underwater use the combination with a rotatable shaft and a bearing bushing and bearing and lubricating means for that shaft, of a pair of packing rings rigidly mounted on said shaft for rotation therewith and suitably spaced apart and arranged with respect to said lubricating means; a second pair of packing rings loosely arranged between said first pair of packing rings and adapted to be shifted in axial direction of said shaft; and a pair of rubber rings suitably arranged between said bushing and said second pair of packing rings and adapted to elastically force said second pair of packing rings in axial direction away from each other against said first pair of packing rings while bearing against said bushing, to thereby produce a water-tight packing for said lubricating means.

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**2,647,773**
**FLUID SEAL**
**Carl H. Berner, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application October 16, 1948, Serial No. 54,907**
**1 Claim. (Cl. 286—11.14)**



Apparatus for sealing fluid within a fluid coupling housing having a tubular wall portion defining an opening and a rotary shaft extending therethrough and provided with a radially extending sealing surface, said apparatus comprising a carbon ring circumscribing said shaft and provided with a peripheral portion abutting the inner surface of said tubular portion, said carbon ring having a sealing surface abutting the sealing surface provided on said shaft and a radially extending second surface located on the side of said carbon ring remote from said sealing surface, mechanical locking means operable to prevent rotation of said carbon ring relative to said housing, a retaining ring circumscribing said shaft and provided with a recess in the forward edge thereof and a peripheral portion abutting the inner surface of said tubular portion, a deformable and incompressible rubber-like third ring having a circular cross section located in said recess and a spring circumscribing said shaft, reacting against said housing and urging said retaining ring against said third ring, said third ring against said carbon ring and the sealing surface of said carbon ring against the sealing surface of said shaft, said retaining ring having a second portion engaging the internal periphery of said third ring and extending into close proximity to the second surface of said carbon ring so that the tubular wall of the housing, the retaining ring and the carbon ring cooperate to substantially completely confine said third ring and retain said third ring against flow thereof between said retaining ring and said tubular wall portion and between said second portion of said retaining ring and said carbon ring when high temperatures and fluid pressures are applied to the third ring during operation of the fluid coupling and the high temperature softens the third ring.

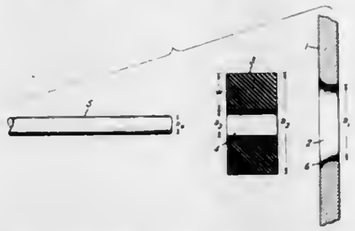
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**2,647,774**
**VACUUM SEAL**
**Sterling P. Newberry, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application October 5, 1949, Serial No. 119,685**
**4 Claims. (Cl. 286—16)**

1. Vacuum-tight means for transmitting motion into an evacuated vessel comprising an elastic grommet disposed within an opening in a wall of the vessel and a rod traversing the bore of



said grommet, the diamensions of said opening being less than the outside dimensions of said grommet, and the dimensions of the bore in said grommet being greater than the cross-sectional dimension of said rod with said grommet hav



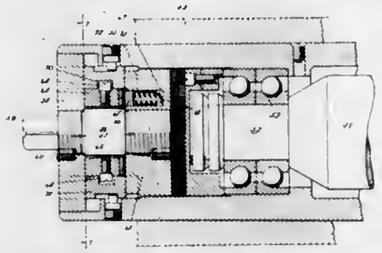
ing a web compression ratio of between about 4% and 20% the web compression ratio of the grommet being defined by the following relation:

$$\frac{(D_2-D_3)-(D_1-D_4)}{(D_2-D_3)}$$

wherein $D_2$ is the outside dimension of the grommet, $D_1$ is the dimension of the opening in the wall, $D_3$ is the dimension of the bore in said grommet, and $D_4$ is the cross-sectional dimension of the rod.

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**2,647,775**
**MEANS FOR LOCKING REELS ON ARBORS**
**Carroll E. Orr, Westfield, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey**
**Application September 4, 1948, Serial No. 47,901**
**4 Claims. (Cl. 287—53)**

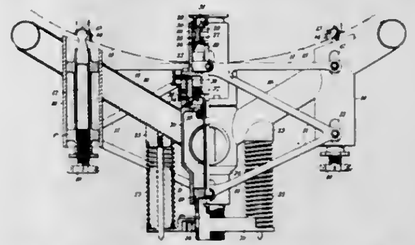


1. In a device for locking a reel in position on a shaft, in combination, an internally threaded hollow end on said shaft, a driving disc threaded into said shaft end, a lock operating disc mounted for rotation coaxially with said driving disc, friction means for rotating said lock operating disc under drive of said driving disc, a plurality of locking bars extending across chords of said shaft, said bars being mounted for reciprocation in a plane normal to the shaft axis, and means on said operating disc for moving said locking bars into position with one end of each extending beyond the outer periphery of said shaft.

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**2,647,776**
**RELEASABLE ATTACHMENT**
**Barnes Neville Wallis, Weybridge, England, assignor to Vickers-Armstrongs Limited, London, England, a British company**
**Application December 12, 1950, Serial No. 200,328**
**In Great Britain October 19, 1949**
**7 Claims. (Cl. 287—124)**

1. A releasable attachment comprising a latch adapted to engage a detent on an object and to be disengaged to release said detent, a bolt comprising a head engaged with said latch, and a longitudinally extending shank connected with said head, means for applying to said bolt a loading force tending to urge the latch toward, and to hold it yieldably in, the detent-engaging position, movement retarding means operating independently of said bolt-loading means for retarding the longitudinal movement of the bolt



towards the detent-releasing position, said retarding means acting on said bolt to prevent disengagement of said detent until a predetermined external force tending to release the detent and greater than and opposite to said loading force has been applied to the detent for a predetermined period, and means mounting the bolt and latch with freedom to resume their initial, locked positions upon cessation of the externally applied force prior to release of the latch.

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**2,647,777**
**ONE-PIECE SEALING DEVICE**
**Thomas O. Kosatka, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill., a corporation of Illinois**
**Application February 9, 1949, Serial No. 75,464**
**2 Claims. (Cl. 288—2)**



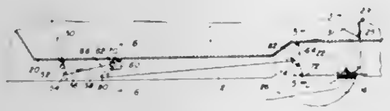
1. A device for sealing the space between a shaft and a two-piece housing through which the shaft projects with its axis in the plane of parting of the housing, comprising: a one-piece elastomer ring comprising a cylindrical portion, a flange portion containing a radial face, and a lip portion projecting radially inwardly from said flange portion and terminating in a lip adapted to engage the shaft, and a pair of semi-circular reinforcing members each comprising a cylindrical portion to the outer face of which the cylindrical portion of said elastomer is bonded, and an integral radial portion disposed at one end of said cylindrical portion of said reinforcing members and having an inner face spaced from and in a plane parallel to said flange, forming therewith a groove that opens outwardly of the device, said reinforcing members being disposed in end to end abutment to form a ring and said elastomer being interrupted at one of the junctions of said members to permit the elastomer ring to be opened and threaded over the shaft and into engagement with one of the housing parts.

**2,647,778**
**ROLL NECK SEAL**
**Jack E. Shields, Mount Lebanon, Pa., assignor to Shields Rubber Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 24, 1949, Serial No. 112,030**
**1 Claim. (Cl. 288—19)**



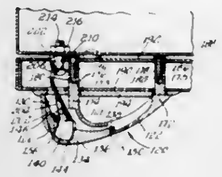
An annular elastomer roll neck seal constructed when a free body to comprise an annular body portion the whole of which is cross-sectionally shaped to fit into an annular groove with one end exposed, an annular flexible neck portion integral with and projecting from each side of the exposed end of said body portion, and a head portion integral with both of said neck portions and defining with said body and neck portions a hollow annular take up chamber that permits distortion of said head and neck portions without disturbing said body portion, said head portion extending above and beyond said body portion to form shoulder means in line with said chamber, said head portion flexibly hinging from said neck portions to permit distortion thereof relative to said body portion.

**2,647,779**
**SKID PREVENTER FOR AUTOMOBILES**
**Alice Psarris, Lowell, Mass.**
**Application May 24, 1951, Serial No. 227,976**
**2 Claims. (Cl. 291—34)**



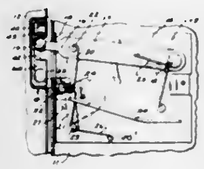
1. A sanding device for automobiles comprising a sandbox, adapted to be mounted below the rear portion of the body of an automobile and having a filling opening adapted to be accessible from within the luggage trunk of the automobile, said sandbox having a pair of laterally spaced discharge spouts adapted to discharge the contents of the sandbox in the path of the traction wheels of the automobile, slide valves operatively disposed in the spouts to control the discharge of sand, ball bearing means carried by the spouts and supporting the valves for sliding movement thereon, said ball bearing means surrounding the discharge passages through the spouts, means for operating said valves comprising a control lever adapted to be pivotally mounted on the automobile adjacent the operator's position, a yoke pivoted intermediate its ends to the control lever and adapted to be disposed below the body of the automobile, and linkage means for operatively connecting the ends of the yoke to the valves.

**2,647,780**
**LATCH MECHANISM**
**Harvey G. Knuth, Elgin, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a corporation of Illinois**
**Application December 15, 1944, Serial No. 568,263**
**10 Claims. (Cl. 292—224)**



1. A combined handle and latch comprising an elongated arched handle portion, one end of the arched portion forming a leg with a chamber, the front wall of the arched portion being recessed and communicating with the chamber of the leg, said arched handle having a relatively shiftable latch actuator fitting into said recess, the outer wall of said relatively shiftable actuator forming a continuation of the outer wall of the arched portion of the handle, said relatively shiftable actuator having a lateral extension passing into the chamber in the leg of the handle, and means on said handle and on said relatively shiftable actuator forming a fulcrum about which the relatively shiftable actuator may pivot, a keeper-engaging latch shiftably mounted in said chamber of said leg and projecting rearwardly outwardly from said leg chamber and having a keeper-engaging member thereon, said latch having a part engageable by said relatively shiftable latch actuator, means normally tending to urge the latch into engagement with the keeper, spring means in the chamber of the leg for normally urging said relatively shiftable actuator outwardly so that the outer wall is substantially flush with the outer wall of the handle whereby said depressible portion and handle form substantially continuous outer surfaces for the handle, said handle having spaced means whereby it may be attached to a door.

**2,647,781**
**LATCH**
**Burnie J. Craig, Los Angeles County, Calif.**
**Application September 12, 1949, Serial No. 115,290**
**4 Claims. (Cl. 292—229)**



1. In a latch construction, a base plate adapted to be secured to the inner wall of a hinged vehicle door, a bolt, means to pivotally mount an end portion of the bolt upon the base plate for movement about an axis which is horizontal and is perpendicular to the inner wall of a vehicle door, the free end portion of the bolt extending beyond the end of the base plate and being adapted to extend beyond the free end of the door and being movable about its pivot from engaged to disengaged position and vice versa, spring means normally urging the bolt to disengaged position, the free end portion of the bolt which extends beyond the base plate including a strike engaging portion, a toggle device including a toggle link mounted on a fixed pivot on the base plate, a second toggle link pivotally mounted on the bolt at a location intermediate the strike engaging portion of the bolt and the pivoted end of the bolt and pivot means connecting the toggle links to form a toggle, the toggle device being operable when made to hold the bolt in engaged position, a latch releasing member, means independent of the toggle to mount the latch releasing member for movement to latch releasing position, and means normally holding the latch releasing member in inoperative position, said latch releasing member having a portion thereon disposed adjacent the toggle device and adapted to break the toggle when the latch releasing member is moved to latch releasing position, said spring means being operable when the toggle is broken to move the bolt to disengaged position.

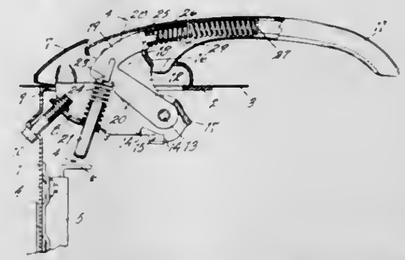


**2,647,782**
**DOOR HOLDER**
**Roy A. Fisk, Cedar Rapids, Iowa**
**Application July 14, 1950, Serial No. 173,844**
**3 Claims. (Cl. 292—288)**



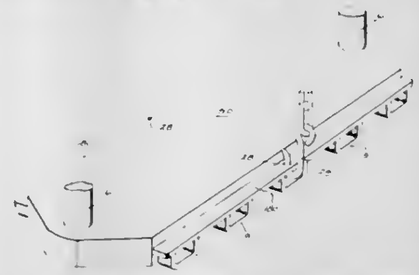
3. A door holder comprising an elongated bar adapted to be disposed between the bottom edge of a door and a supporting surface disposed therebeneath and longitudinally of said bottom edge, furcations fixed to and projecting from one end of said bar and laterally spaced relatively to one another and adapted to extend outwardly from the free end of the door, and a cam and lever means pivotally mounted between said furcations and swingable relatively thereto whereby a smooth eccentric portion of the cam will slide and fulcrum on the supporting surface for elevating the furcations and the end of the bar adjacent thereto for moving said bar end into wedging engagement with a portion of the bottom edge of the door for rigidly retaining the door in an open position when the cam and lever means is swung in one direction, the opposite end of said bar being adapted to fulcrum on said surface when the furcations and first mentioned end of the bar are elevated by said cam means, the cam of said cam and lever means being disposed with its eccentric portion substantially coplanar with undersides of the furcations when the lever is in substantially an upright position whereby the furcations and eccentric cam portion are adapted to rest on the supporting surface.

**2,647,783**
**LATCH RELEASING DOOR HANDLE**
**Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.**
**Application March 13, 1950, Serial No. 149,408**
**12 Claims. (Cl. 292—336.3)**



10. A latch releasing door handle comprising a supporting bracket, a door handle pivotally mounted thereon, a latch actuating plunger reciprocatingly mounted on said bracket and provided with a thrust collar at its outer end, a return spring for said plunger mounted thereon in engagement with said thrust collar, a pivotally mounted thrust member having thrust engagement with said plunger, and a coil actuating spring disposed within said handle and in thrust engagement with said thrust member.

**2,647,784**
**DIE SET HANDLING FLANGE AND COACTING HOOK**
**Kasimir Janiszewski, Milwaukee, Wis., assignor to Superior Steel Products Corp., Milwaukee, Wis., a corporation of Wisconsin**
**Application September 2, 1948, Serial No. 47,353**
**14 Claims. (Cl. 294—1)**



8. In a die set including a die carrying plate so heavy and unwieldy as to endanger an operator's fingers whether the plate is lifted manually or with a hoist having a fingered plate lifter, the combination with such a plate having upper and lower faces and a thick edge, of flange means having a generally horizontal extent and attached to said plate and projecting laterally from said edge intermediate the upper and lower faces, and a series of generally upright flanges dimensioned to fit between an operator's fingers and disposed opposite the central portion of the plate and extending with substantial vertical height substantially to the edge of said first-mentioned flange means between th first mentioned flange means and the level of the bottom face of the plate, said upright flanges and the flange means first mentioned forming recesses dimensioned to receive alternatively the operator's fingers and the corresponding fingers of a

hoist at a point at which the plate is substantially in balance and to secure such fingers against slippage along the flange means and to protect such fingers from being caught beneath the plate or the first mentioned flange means in the lowering of the plate.

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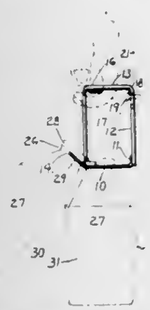
**2,647,785**
**SANITARY HOLDER FOR ARTICLES**
**Lola A. Casnati, New York, N. Y.**
**Application February 19, 1949, Serial No. 77,410**
**19 Claims. (Cl. 294—25)**



1. A sanitary holder, for picking up small articles, comprising a structure of foldable sheet material and having an upwardly directed central apex portion and a plurality of downwardly directed side pocket portions into which one may engage one's fingers for pressing said pocket portions toward each other, each of said pocket portions being of the shape of an inverted four-sided pyramid, said structure incorporating a pair of rectangular sheet material sections one superposed on another and secured together adjacent side portions thereof, said structure having eight folds all meeting substantially at the center of a section, and the section at the top of said structure having a cruciform opening therethrough with the arms of said opening extended parallel to the side edges of said section at the top of said structure.

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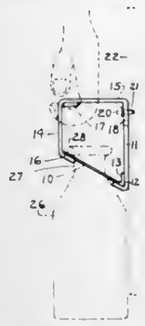
**2,647,786**
**BOTTLE HOLDER AND CARRIER**
**Burton H. Locke, Framingham, Mass.**
**Application January 24, 1950, Serial No. 140,307**
**2 Claims. (Cl. 294—87.28)**



1. A bottle holder and carrier for bottles having neck portions and larger rim portions thereabove comprising a rectangular plate, one longitudinal edge of said plate being bent vertically upwardly, the other longitudinal edge of said plate being bent upwardly on an incline, a plurality of slots extending in from the inclined longitudinal edge of the plate and terminating within the plate, each said slot being suitable to admit the neck portion of a bottle and to check the rim portion of said bottle from passing therethrough, a plurality of bar members disposed vertically on said plate and attached thereto, the top portion of said members being connected together, at least two of the said bar members being positioned at the vertically bent-up edge of the plate, an aperture in the form of an inverted key-slot in each such positioned bar member near the top portion thereof, a bar handle member connected to the top portion of the vertically disposed bar members, said handle member being disposed substantially above the center of gravity of the holder with bottles suspended therein.

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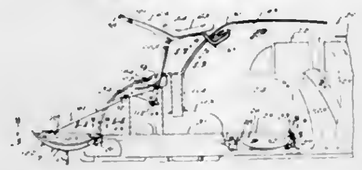
**2,647,787**
**BOTTLE HOLDER AND CARRIER**
**Burton H. Locke, Framingham, Mass.**
**Application September 13, 1950, Serial No. 184,539**
**4 Claims. (Cl. 294—87.28)**



1. A holder and carrier for bottles that have a neck portion and a larger rim portion thereabove comprising a plurality of vertical structures having a vertical face with means to facilitate the holder being removably hung against a support, a base plate secured at the bottom of the said vertical structures, said base plate being disposed to incline outwardly and upwardly in respect to the said vertical face of the vertical structures, a plurality of slots having diverging sides extending in from the outer upper edge of the said base plate and terminating within the said plate, said slots being suitable to receive the neck portion of bottles and to check the passing of the said rim portion thereof therethrough when the necks of the bottles are tight within the slots, a bar handle connectingly attached to the vertical structures substantially near the top thereof and positioned substantially nearer above the open ends of the said slots than above the closed ends thereof when the holder is in its normal upright position.

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**2,647,788**
**VEHICLE BODY CONVERTIBLE INTO AN ARTICLE-CARRYING BODY**
**Edgar F. Kaiser and Dean B. Hammond, Ann Arbor, Mich., assignors to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada**
**Application December 6, 1949, Serial No. 131,375**
**7 Claims. (Cl. 296—28)**



1. In a vehicle body of the conventional type having a belt line and a rear window, said body also having a rear deck opening extended from the deck floor to above the rear window, an upper deck lid for said opening containing said rear window, a lower deck lid in said opening, reinforcing elements extending across the top of the opening at the marginal edge thereof and downwardly along each side to the belt line and rearwardly along the deck opening, and a pillar at each side of the body for connecting said reinforcing element to the deck floor.



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**2,647,789**
**VEHICLE DOOR LOCKING MEANS**
**Charles A. Chayne, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application February 10, 1951, Serial No. 210,296**
**13 Claims. (Cl. 296—44)**

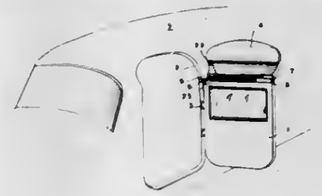


8. In a vehicle, apparatus of the character described, including: a front door pillar; a rear door pillar spaced from said front door pillar; a door adapted to extend from said front pillar to said rear pillar when in closed position; a reinforcing beam mounted on said door and extending thereacross; hinge means for mounting said door on one of said pillars for swinging movement between open and closed positions, said hinge means comprising a spaced pair of stationary hinge members mounted on one of said pillars, a first movable hinge member mounted on said beam, a second movable hinge member mounted on said door, and hinge pin means pivotally connecting said respective movable members with complementary ones of said stationary members, said complementary movable and stationary members having tapered openings which are aligned when the door is closed to form a frusto-conical aperture; a pair of hydraulic cylinder and piston devices mounted on said last mentioned pillar, each device having a movable portion with a tapered dowel adapted to enter and wedge in one of said frusto-conical apertures to lock said complementary hinge members together when the door is closed; a latch mounted on said beam adjacent said other pillar; a catch member on said other pillar adapted to cooperate with said latch; a hydraulic cylinder and piston device mounted on said beam and connected to said latch for operation thereof between latched and unlatched positions; and common operating means for said hydraulic devices.

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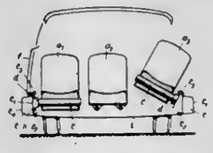
**2,647,790**
**AUTOMOBILE DOOR CONSTRUCTION**
**Edward L. Blackman, New York, N. Y.**
**Application April 9, 1952, Serial No. 281,384**
**3 Claims. (Cl. 296—44)**

1. In a device of the character described, in combination with a door, a frame for said door, a hinge on which said door is mounted in said frame, a fixed top having a recess above the door, a top section of the door corresponding to said recess and hingedly mounted on the top of the door near one edge thereof and constructed and arranged to open and close said recess and to swing up and down when the door is opened and closed respectively, a slidable plate mounted on said door carrying a pivotally mounted cam, a contact arm operatively connected with the surface of said cam at one end and rigidly attached to said top section of the door at its other end, means attached to said frame for preventing displacement of said slidable plate when said door is opened whereby said contact arm raises said top section when the door is opened and lowers said top section when the door is closed.



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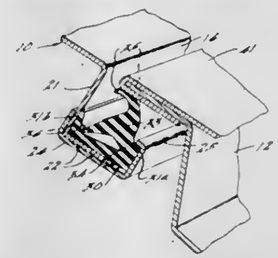
**2,647,791**
**SEATING ARRANGEMENT FOR VEHICLES**
**Béla Barényi, Stuttgart-Rohr, Germany**
**Application November 22, 1949, Serial No. 128,802**
**In Germany November 27, 1948**
**15 Claims. (Cl. 296—64)**



1. In a motor vehicle, the combination comprising a lateral longitudinal horizontal sill forming part of the body, a floor panel rigid with and extending from said sill, an arm, means for attaching said arm to said sill in substantially horizontal position spaced from said floor panel, and a seat mounted on said arm.

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**2,647,792**
**CLOSURE SEAL OF CANTILEVER TYPE FOR VEHICLE BODIES AND THE LIKE**
**Albert E. Flemming, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application October 25, 1950, Serial No. 192,080**
**8 Claims. (Cl. 296—76)**



1. In combination, a motor vehicle body having an opening therein and a closure member for said opening hingedly connected to said body, said body having a depressed, channel-like, groove formed therein to extend around the periphery of the opening, said groove being adapted to receive portions of said closure member in spaced,

superimposed relation thereto, and a resilient seal having a strip-like base portion wedgingly mounted in said groove and an outwardly projecting flap portion of substantially V-shaped cross sectional configuration hingedly connected to said base portion, said V-shaped flap portion comprising a cantilever-type sealing leg adapted to be sealingly engaged with the said portions of the closure member and an angularly spaced anchor leg adapted to normally overlie and to be bent into engagement with said base portion during sealing engagement of said sealing leg with the said superimposed portions of said closure member.

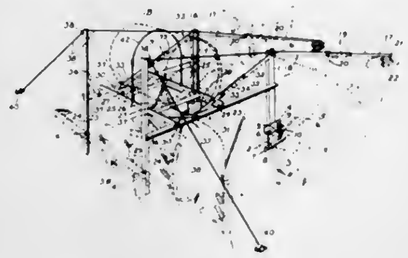
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**2,647,793**
**TUBE SHIELD FOR SPRAY GUNS**
**Edward Mosher, Detroit, Mich.**
**Application March 8, 1951, Serial No. 214,456**
**8 Claims. (Cl. 299—28.5)**



1. In a traffic lane marking machine, a downwardly disposed paint gun carried by the machine at a predetermined distance from the surface of the road, and having means for the admission of paint and a motive agent and a plurality of discharge ports adjacent the lower end thereof for the emission of a spray of paint upon the surface of a road, said gun having formed adjacent the discharge ports a threaded portion which is substantially co-axial with respect to the spray of paint, a ring threadedly received on said threaded portion of said gun, a nozzle rotatably carried by said ring and including a downwardly extending conical portion enclosing said discharge ports, said nozzle having formed therein a discharge opening positioned axially with respect to the paint spray for directing the spray downwardly in a fan-shape pattern, a shield of tubular construction telescopically received by said ring and fixed to the outer circumference thereof against axial movement with respect thereto and extending downwardly therefrom for enclosing the spray of paint emitted from said nozzle, said shield being of sufficient length to confine and restrict the spray of paint within the shield so that only that portion of the spray of paint being of substantially equal density is driven from the shield, the bottom edge of the shield forming a well defined lateral outline to the spray of paint so as to form upon forward movement of the machine, a ribbon of paint having well defined lateral edges and of substantially equal hue.

**2,647,794**
**SPRAY RIG SUPPORTING FRAME FOR FARM TRACTORS**
**William A. Mueller, Albert R. West, and Robert B. West, Decatur, Ill.**
**Application September 24, 1951, Serial No. 247,986**
**3 Claims. (Cl. 299—30)**



2. In a spray outfit attachment for farm tractors, the same comprising supports for said spray outfit, said supports being vertical L-shaped uprights attached to the rear axle housing of a tractor, adjustable braces extending from the top of the vertical supports to the front frame of the tractor on each side thereof, horizontally disposed arms extending from said vertical supports rearwardly of the forward adjustable braces, said horizontally disposed arms being attached to said vertical supports midway between the attachment of the said supports to said tractor axle housing and the adjustable braces running from the top of said supports to the front of the tractor frame, a platform mounted on the horizontally disposed arms, said platform having thereon a cradle attachment for holding a barrel, vertical angle irons attached to the rear of the horizontally disposed arms, and braces extending from the top of said vertical angle irons attached to the housing of the rear axle of the tractor extending to the vertical angle irons attached to the rear of the horizontally disposed arms, and a spray boom attached to the bottom of said vertical angle irons with braces extending from adjacent the outer ends of the spray boom to the tops of the vertical angle irons to the rear of said horizontally disposed arms.

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**2,647,795**
**PLANT SPRAYING MACHINE**
**Joseph B. Kucera, Traer, Iowa**
**Application August 7, 1948, Serial No. 43,086**
**12 Claims. (Cl. 299—42)**

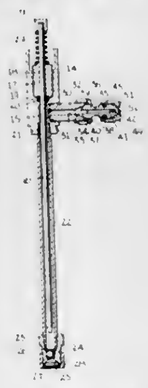


8. In a spraying apparatus adapted to be mounted on a vehicle, a pair of spray boom sections mounted for vertical swinging movement on said vehicle, a boom suspension member mounted above each boom section, a pivotally movable anchor mounted between said boom suspension members, and a cable-like support element having its opposite outer ends respectively attached to said boom sections and having intermediate portions anti-frictionally engaging said boom suspension members and secured substantially centrally to said movable anchor to provide equalized balanced support for said boom sections on said vehicle.

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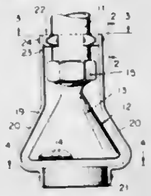
**2,647,796**
**SPRAYING DEVICE WITH SWIVEL NOZZLE**
**Frank Ziherl, Euclid, Ohio, assignor to Z & W Machine Products, Inc., a corporation of Ohio**
**Application March 23, 1950, Serial No. 151,409**
**2 Claims. (Cl. 299—73)**



1. In an electrical spraying device, an outlet, said outlet having an axial socket of conical form provided thereon, a spray nozzle, an axially channelled ball integral with one end of said spray nozzle, said ball being rotatably seated in said conical socket and the wall of said socket being linearly tangential to said ball, and means for securing said ball against displacement from said socket, whereby said spray nozzle is operatively adjustable to selected positions of angularity relatively to said outlet.

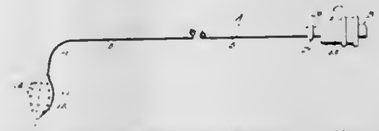
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**2,647,797**
**SHOWER BATH UTILITY**
**Abraham Z. Moss, Santa Monica, Calif.**
**Application April 13, 1951, Serial No. 220,896**
**3 Claims. (Cl. 299—83)**



1. An accessory for a shower bath fixture having a head with outlet openings from which water issues and a supply pipe to the head, comprising a container-dispenser member having an outer open-topped trough-like annular section for holding a supply of material to be dispensed and defining a central opening, a central deflector plate spaced radially inward of said annular section, and a spider-like support mounting said deflector on said annular section, and bracket means on said container-dispenser member for mounting the same on the fixture to position said container-dispenser member in front of said head.

**2,647,798**
**NOZZLE ASSEMBLY FOR FIRE-FIGHTING EQUIPMENT**
**Edward D. Ballard, Fort Lauderdale, Fla.**
**Original application March 31, 1948, Serial No. 18,123, now Patent No. 2,567,176, dated September 11, 1951. Divided and this application August 14, 1951, Serial No. 241,875**
**5 Claims. (Cl. 299—111)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

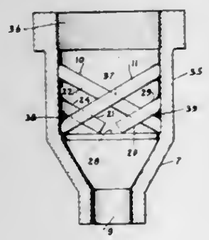


1. A nozzle assembly adapted to direct fire-extinguishing fluid to a mass of flaming combustibles which comprises, in combination, a nozzle having a barrel provided with a discharge end and having a conduit therethrough for passage of fire-extinguishing fluid through the barrel, the said discharge end of the barrel having an annular cam-shaped surface, the barrel also having a restricted exterior channel adjacent to but spaced behind the discharge end, an extension for the nozzle comprising a tubular stem defining a fluid passage therethrough, the said stem having a forward end and a rear end adapted to be received over the barrel of the nozzle, the said stem having a substantially thickened wall section intermediate the said ends, external threads on the said thickened wall surface, the fluid passage in the stem rearwardly of the thickened wall section being of substantially greater diameter than the fluid passage in the said thickened wall section and in advance thereof and defining with the thickened wall section a rear annular abutment recess, a resilient sealing gasket in the said recess for receiving in abutting relation thereagainst the discharge end of the said nozzle barrel, a plurality of openings in the stem extending through the wall thereof and opening into the enlarged portion of the fluid passage, the said openings being disposed concentrically around the stem and rearwardly of the sealing gasket, the said openings having inwardly converging sides so that the diameter of the openings at the enlarged fluid passage is substantially smaller than the diameter of the openings at the outer surface of stem, spherical locking members freely positioned in the said openings, the locking members having a diameter greater than the least diameter of the openings so that the locking members are prevented from passing entirely through the openings while partially projecting therethrough for engagement with the cam end surface of the nozzle as the nozzle becomes connected to the stem, the said cam end surface of the nozzle pressing the locking members outwardly relative to the openings responsively to insertion of the nozzle-barrel into the stem until the locking members ride over the cam end surface of the nozzle-barrel and drop into the channel on the nozzle-barrel responsively to full insertion of the barrel into the stem until the discharge end of the barrel abuts against the resilient seal in the stem, and an outer locking sleeve on the stem having a forward end and a rear end, the said locking sleeve having a tubular passage therethrough for receiving the stem and interfitting therewith, the passage being threaded interiorly along a portion of its length adjacent to the forward end of the sleeve, the said threads being complemental to

and intermeshing with the threads on the thickened wall section of the stem for securing the locking sleeve on the stem, the said passage in the locking sleeve flaring outwardly in diameter as it approaches the rear end of the sleeve and defining a cam surface in the sleeve forwardly of the rear end of the sleeve, the said cam surface engaging the spherical locking members responsively to full insertion of the nozzle-barrel and adjustment of the sleeve rearwardly on the threads of the stem for pressing the said locking members into tight locking engagement with the channel in the nozzle-barrel for securing the nozzle-barrel and stem in tightly interlocked relation, the length of the threaded portion of the sleeve being greater than the length of the threaded portion of the stem so that a forward screwing movement of the sleeve on the stem will advance the sleeve relative to the stem until the cam surface within the sleeve becomes disengaged from locking engagement with the spherical locking members, thereby releasing the locking members from locking engagement with the channel in the nozzle-barrel and the flaring diameter of the passage in the sleeve forms a clearance for the locking members sufficient to release the locking members from locking engagement with the channel while the sleeve still retains the locking members in their openings, the release of the locking members enabling withdrawal of the nozzle-barrel from the stem, the said sleeve also defining a forward clearance with the stem for enabling requisite adjustments of the sleeve relative to the stem.

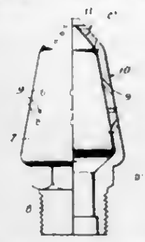
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**2,647,799**
**DEFLECTOR VANE STRUCTURE FOR SPRAY NOZZLES**
**Selwyne P. Kinney, Crafton, Pa., assignor to S. P. Kinney Engineers, Inc., Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 23, 1949, Serial No. 129,083**
**9 Claims. (Cl. 299—120)**



5. A spray nozzle comprising a cylindrical chamber having a water inlet opening at one end and a spray discharge orifice at its other end, and spray forming apparatus in said chamber comprising a pair of substantially semi-circular deflector plates in positions opposite each other and reversely and angularly inclined relative to the axis of said chamber, said plates having parallel chord edges facing toward and spaced from each to provide a rectangular space through which water may flow unimpeded by said plates, and auxiliary deflector elements respectively secured to each of said plates and having portions extending under the other said plates, each of said deflector elements having an upper surface facing said inlet opening substantially parallel to the plate under which it extends.

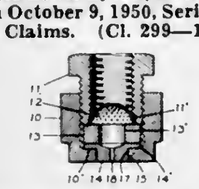
**2,647,800**
**FIRE EXTINGUISHING NOZZLE AND DISTRIBUTOR HEAD**
**Thompson W. Burnam, Long Beach, Calif., and George D. Ramsay, Dallas, Tex.**
**Application March 31, 1949, Serial No. 84,618**
**5 Claims. (Cl. 299—143)**



1. A nozzle for producing a fog comprising a hollow cone having a plurality of sets of openings in the inclined wall thereof, each of said sets comprising at least three openings disposed in a common plane to form impinging jets, the axes of two of the openings of each set intersecting each other at a point remote from the face of the cone and the axis of the third opening passing at one side of said point of intersection but no further removed therefrom than a distance equal to twice the diameter of said third opening.

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**2,647,801**
**PAINT SPRAYING NOZZLE**
**Charles Lewis Lycan, Decatur, Ill.**
**Application October 9, 1950, Serial No. 189,120**
**3 Claims. (Cl. 299—153)**

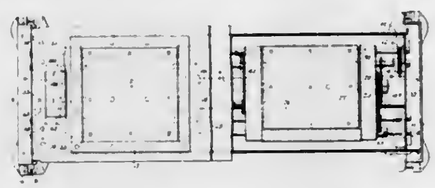


1. In a spray nozzle of the type herein described comprising in combination a nipple, a portion of which is screw-threaded into a case or body portion, means on one end of said nipple for suitable communicable engagement with paint supply means in a paint spraying machine, a strainer member within said case or body portion means on the other end of said nipple compressing said strainer member to hold the strainer member against a spacer member, a spacer member having an opening therethrough for communication with a jet member, a jet member flanged at one end and having a neck formed at the other end, a substantially narrow slot in the flanged end of the jet member and a substantially narrow slot in the other end of the jet member, the said slots being disposed transversely of and in communication with each other, and an opening centrally through said case or body portion to receive the neck form of the jet member.

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**2,647,802**
**PNEUMATIC UNLOADER**
**Philip R. Hornbrook, Allentown, Pa., assignor to Fuller Company, Catasauqua, Pa., a corporation of Delaware**
**Application December 13, 1949, Serial No. 132,669**
**9 Claims. (Cl. 302—27)**

1. In an unloader for a pair of hopper-bottom vessels, the combination of a casing having a pair of necks extending from its top and adapted to be connected to the hopper bottoms of the two vessels, a receptacle within the casing beneath each neck for receiving material from the vessel through said neck, each receptacle including end walls and downwardly convergent side walls, an opening at the lower end of each end wall of each receptacle, a tube connecting the receptacles through the openings in the adjacent end walls,

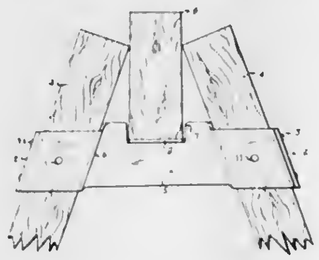


a discharge tube leading from the opening in the outer end wall of at least one receptacle, means within each receptacle forming an air passage leading downwardly along at least one end wall thereof and terminating at about the level of the tops of the respective end wall openings, each air passage having an intake opening communicating with the interior of the casing and means for controlling the flow of air through the intake openings of the passages.

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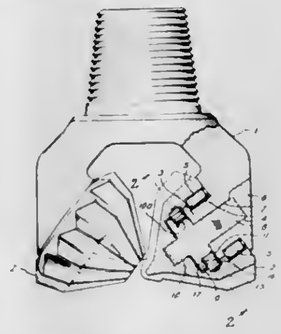


**2,647,803**
**SAWHORSE CONNECTOR BRACKET**
**William O. Bohm, Detroit, Mich., assignor to Earl E. Thomas, Detroit, Mich.**
**Application March 10, 1949, Serial No. 80,598**
**2 Claims. (Cl. 304—5)**



2. A sawhorse connector bracket, comprising a pair of spaced opposed side walls and a pair of spaced opposed end walls, such walls having a permanent rigid interconnection, the end walls being downwardly divergent and the side walls having their central portions similarly offset toward each other and each forming at its offsets a pair of downwardly divergent shoulders respectively substantially parallel to the respective end walls, whereby such shoulders are correlated with the end walls and adjoining portions of the side walls to form a pair of spaced downwardly divergent sockets for receiving a pair of sawhorse legs, said offset central portions being similarly notched downwardly from their upper edges, between the shoulders of each such portion, to jointly receive the cross bar of a sawhorse, said bracket consisting of two sheet metal stampings, of a substantially duplicate nature, and means rigidly and permanently joining such stampings substantially centrally of the end walls.

**2,647,804**
**ROLLER BIT**
**Wiley B. Noble, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas**
**Application May 23, 1951, Serial No. 227,801**
**6 Claims. (Cl. 308—8.2)**



1. A bit having a shaft; a roller cutter rotatable on said shaft; said shaft having a raceway with inwardly tapered side walls, said cutter having a raceway with substantially parallel side walls and a rounded, grooved bottom; thrust bearing rollers in said raceways, rotatable on axes substantially radial to the axis of rotation of said cutter, and having tapered inner portions to bear against each other and against the tapered side walls of said shaft raceway, said tapered inner portions being spaced radially from said tapered side walls to provide a substantial axial space therebetween; a substantially cylindrical portion to engage the substantially parallel side walls of said cutter raceway, and a rounded end to engage the rounded bottom of said cutter raceway; a substantially rigid ring in said shaft raceway and spaced radially therefrom to hold said rollers in the circle defined by the periphery of said ring; and load sustaining bearings on each side of said thrust bearing rollers, said ring and rollers being movable radially as a unit upon wear of said load sustaining bearings whereby said rollers are subjected to end thrust only.

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**2,647,805**
**DISK HARROW GANG AND BEARING**
**Raymond M. Kraus, Cleveland, Ohio, assignor to The Dunham Company, Berea, Ohio, a corporation of Ohio**
**Application February 7, 1949, Serial No. 74,909**
**3 Claims. (Cl. 308—19)**



1. In an agricultural disc gang, a plurality of concavo-convex soil working discs, and a plurality of spacing devices, alternating in a series, and held together longitudinally by clamping means extending therethrough; the spacing devices comprising each, a pair of cast metal parts, one having a plurality of concentric circular beads engaging the concave face of one disc, and the other having a plurality of concentric circular beads engaging the convex face of the next adja-

cent disc, and cylindrical steel tube spacer means abutting at its ends upon the said two parts; and coaxial confronting generally cylindrical portions on the said two parts telescoped with the ends of the tube spacer means and positioning them coaxially of the discs; and coaxial holes provided in the two parts for receiving a gang clamping element of said clamping means; one of said spacer means having cylindrical exterior surfaces constituting the rotary inner part of a bearing; an outer sleeve part for the bearing comprising a pair of cast metal bearing parts, one on each side of the said inner rotary bearing part and provided jointly with a cylindrical bore in which the cylindrical surfaces have rotary bearing; means to fasten the two bearing parts together; the two said spacing device parts having transverse gang-end-thrust transmitting surfaces, transverse steel washers rotatively loosely surrounding the said tubular bearing ends respectively and engaging said transverse surfaces; and axially opposite end portions of the two bearing parts having transverse surfaces engaging the washers and receiving end thrust transmitted through the washers.

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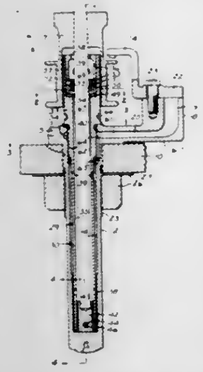
2,647,806

## MOUNTING FOR TEXTILE SPINDLES

**Howard A. Simmons, Milford, Mass., assignor of one-half to James Read Kimball, Hopedale, Mass.**

**Application October 19, 1949, Serial No. 122,280**

**2 Claims. (Cl. 308—169)**



1. A mounting for textile spindles comprising a vertically elongated bolster case having a bore therein which is closed at its lower end, the upper end of the bore being open and surrounded by an upwardly facing surface, internal screw threads within the upper portion of the bore, a vertically elongated bolster extending downwardly into the bore and having an enlarged upper portion providing a downwardly facing shoulder, the bolster having external screw threads thereon below the shoulder engaging the screw threads in the bore, the said surface and shoulder cooperating to limit downward movement of the bolster as it is screwed into the case and to provide an oil tight annular joint, the bolster having a bore for the reception of a spindle and a counterbore in the said enlarged upper portion, a step bearing in the lower portion of the bolster bore to support the lower end of the spindle, an antifriction radial bearing mounted in the counterbore to support the spindle intermediate its length and means to supply oil to the interior of the bolster case and thence to the interior of the bolster, the bolster case being provided with an oil passage leading to the internally threaded upper portion of its bore and with a groove which extends downwardly from the said passage and along the bore to a point below the external screw threads on the bolster.

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2,647,807

## NONFRETTING ANTIFRICTION BEARING

**Lawrence C. Brunstrum, Flossmoor, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana**

**Application June 30, 1951, Serial No. 234,585**

**9 Claims. (Cl. 308—183)**



1. An antifriction bearing assembly including a first outer bearing ring, a second inner bearing ring, and an intermediate third bearing ring, said rings being concentric, antifriction bearing members interposed said first and third rings and said second and third rings, and ratchet means adapted to allow only unidirectional rotation of each said interposed antifriction bearing members oppositely relative to each other member.

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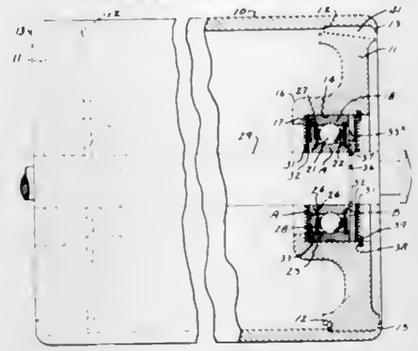
2,647,808

## BEARING MOUNTING FOR IDLER ROLLS AND THE LIKE

**Samuel J. Spurgeon, Birmingham, Ala.**

**Application May 19, 1950, Serial No. 162,980**

**5 Claims. (Cl. 308—187.1)**



1. The combination with a cylindrically bored hub having therein an anti-friction bearing embodying built-in seals at each end and a centrally disposed axle for supporting the hub, of auxiliary seals in the bore at each end of the anti-friction bearing and spaced axially of the built-in seals to provide spaces for receiving quantities of semi-fluid material, said auxiliary seals each comprising a washer of resilient material disposed with a close running fit about the axle, and means in the bore of the hub holding said washers in assembled relation with respect to the bearing.



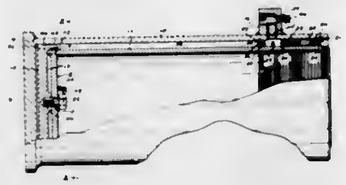
2,647,809

## CYLINDER AND PISTON CONSTRUCTION

**Harold C. Schindler, Euclid, Ohio, assignor to The Euclid Road Machinery Co., Cleveland, Ohio, a corporation of Ohio**

**Application September 30, 1949, Serial No. 118,985**

**5 Claims. (Cl. 309—1)**



1. A cylinder and piston assembly comprising a tubular cylinder having a closed end and an open end, a piston reciprocable in said cylinder, said piston having on its inner end a head with an annular rigid shoulder flange projecting radially outwardly, means detachably securing said shoulder flange to said head, said cylinder having a pair of spaced ring grooves on its inner surface near its open end, a pair of snap rings respectively seated one in each groove, each ring having a portion thereof projecting inwardly into said cylinder so as to retain annular packing material between said rings, the annular shoulder of said piston head being disposed in said cylinder between the closed end of said cylinder and the innermost snap ring, the outside diameter of said shoulder being greater than the inside diameter of said innermost snap ring, and means accessible through the open end of said cylinder and through the interior of said piston for manipulating said securing means for detaching said annular shoulder flange from said piston or connecting it thereto.

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2,647,810

## SEALING ASSEMBLY

**Tommy J. McCuistion, Euclid, Ohio, assignor to Precision Rubber Products Corporation, Dayton, Ohio, a corporation of Ohio**

**Application October 24, 1950, Serial No. 191,836**

**1 Claim. (Cl. 309—23)**



In a fluid pressure sealing device, a pair of elements movable relatively to each other, one of said elements having a packing groove with straight sides, and a resilient elastic one-piece composition packing ring of uniform consistency throughout having a convex curved outer surface positioned in said groove for operative engagement between said elements and having the tangential region of the curved surface thereof diametrically opposite the bottom of said groove in radially compressive circumferentially restricted flattened resilient sealing engagement with the other of said elements, the depth of said groove being greater than the corresponding dimension of said ring so that there will be a clearance at all times between the bottom of said groove and said ring when in assembly, said ring being adapted to be pivoted by initial axial fluid pressure between said elements about its restricted tangential engagement so as to bring the curved surface of said ring into initial tangential sealing engagement with the opposite straight wall of said groove and to be forced by continued axial fluid pressure between said elements into the opposite corner between the side wall of said groove and the other of said elements.

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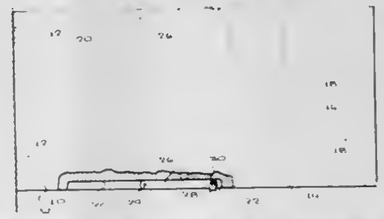
2,647,811

## LOCK FOR SECTIONAL, FOLDING TABLE TOPS

**Robert L. Norris, Jr., Sacramento, Calif.**

**Application September 12, 1952, Serial No. 309,291**

**1 Claim. (Cl. 311—19)**



A table top comprising a pair of leaves, hinges coupling adjacent edges of the leaves for enabling said leaves to be folded into superposed relation, said leaves having grooves extending into opposite side edges and opening through the hinged edges of the leaves, a bar pivotally mounted adjacent one end in each groove in one of the leaves, said bars being movable in arcuate paths which lie parallel to the leaf in which the bars are pivoted from an inactive position in which they lie wholly within the grooves to an active position in which they extend through the ends of the grooves and into the grooves in the adjacent leaf, and finger holds pivotally carried by the bars for movement about the ends thereof remote from their pivoted ends.

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2,647,812

## REFRIGERATOR SHELF

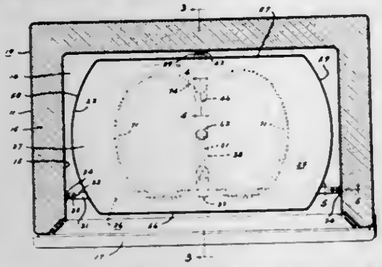
**Orson V. Saunders, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware**

**Application March 10, 1950, Serial No. 148,988**

**2 Claims. (Cl. 312—294)**

2. In combination, a cabinet having walls forming a compartment therein, said compartment having an access opening in one of said walls, a door normally closing said compartment access opening, an article supporting member, a slotted member for mounting said article supporting member within said compartment, said mounting member being secured against horizontal movement relative to said compartment, said supporting member having a part thereof depending into the slot in said mounting member to directly connect the same to said mounting member for horizontal sliding movement relative thereto, a continuously curved endless track associated with one of said mem-

bers and permitting said supporting member to be rotated 360° relative to said mounting member, an element on the other of said members cooperating with said track, said element being located at a point spaced rearwardly from said depending part of said article supporting member and adapted to coact therewith, said article supporting member being, when a horizontal force is applied thereto, slidable part way out of said compartment through its access opening while said door is open, the coaction between said element and said depending part of said article supporting member together with the co-



operation of said element with said track being such as to rotate said article supporting member in either one of two directions simultaneously with the sliding movement thereof, means associated with said track and engaging said element during movement of said article supporting member for locking the same against removal from said mounting member, and said means being out of engagement with said element while the article supporting member is in a normal position within said compartment to permit detachment of said article supporting member from said mounting member.

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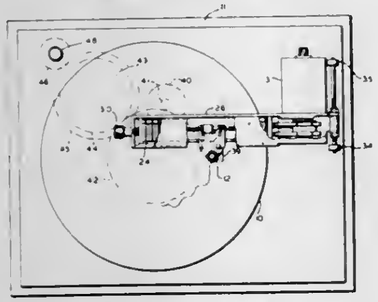
**2,647,813**

**POLAR CHART RECORDER**

**Robert B. Watson, Austin, Tex., assignor to the United States of America as represented by the Secretary of the Navy**

**Application January 5, 1946, Serial No. 639,277**

**5 Claims. (Cl. 346—33)**



1. A recorder of alternating current power level including a stylus, a stylus driving motor, means generating a signal input voltage corresponding to the condition to be measured, an input attenuator adjusted with said stylus in a manner such that the resistance offered thereby is a function of stylus position, means applying said input signal voltage to said attenuator means to amplify and rectify said signal input voltage after it has passed through said attenuator, a balanced alternating current modulator, a reference voltage source, means to impress on one side of said modulator a voltage equal to the difference between said rectified attenuated signal voltage and a reference voltage from said source, means to impress on the other side of said balanced modulator a voltage which varies in accordance with the derivative of said difference voltage, and means to operate said stylus driving motor from the output of said balanced modulator to alter the attenuator position and bring the recorder to a balance point.

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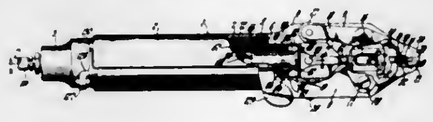
**2,647,814**

**CLIP CLINCHING TOOL**

**William D. Chilton, Royal Oak, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application February 7, 1949, Serial No. 74,956**

**7 Claims. (Cl. 1—187)**



2. Means for fastening together juxtaposed rods by application of a retainer clip, comprising a head having a pair of spaced-apart arms terminally provided with rod receiving and locating pockets, one of said arms having a clip feed opening leading to a loading station spaced rearwardly from said pockets, a pair of rockers having clip guide portions leading forwardly from said station and terminating in anvil formations against which the ends of the clip may be engaged to deform the same about rods received within said pockets, pivot mountings for said rockers and about which the rockers may swing from an anvil open position to an anvil closed position, a projectible plunger having cams engageable with the rear portions of said rockers to swing together said anvil portions and having a clip engaging nose for impelling a clip forwardly from the loading station and into anvil deforming engagement, a magnet at the loading station for temporarily holding a clip prior to plunger actuation, a pair of doors normally closing the clip exit from the station and cooperating with the nose in temporarily positioning a clip at said station prior to plunger actuation, said doors being openable in response to clip travel upon plunger actuation and thereafter cooperating with said guide portions in directing the clip toward the anvil portions.

# CHEMICAL

**2,647,815**

**ALKYL DIFORMYL PHENYLENEDIAMINES**

**Saul R. Buc and Samuel A. Glickman, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application May 3, 1951, Serial No. 224,444**

**6 Claims. (Cl. 8—35)**

6. A mixture of N,N'-dimethyl, N,N'-diformyl-p-phenylenediamine; N,N'-diethyl, N,N'-diformyl-p-phenylenediamine; and N-methyl, N'-ethyl, N,N'-diformyl-p-phenylenediamine; wherein the methyl and ethyl groups are in the ratio of 1:3.

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**2,647,816**

**METHOD OF MAKING A WOUND PACKAGE AND AFTER-TREATING THE SAME**

**Orlando A. Battista, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**

**Application July 10, 1948, Serial No. 38,133**

**4 Claims. (Cl. 8—155.2)**



1. The method comprising distributing from about 20 to 50% by weight of cellulose ester fibers on a surface of an unperforated and unslitted sheet of liquid-permeable paper formed from cellulose fibers, said ester fibers being distributed only at spaced portions of the sheet, rendering the cellulose ester fibers adhesive and subjecting the sheet to pressure to obtain a sheet in which the ester fibers are autogenously bonded to the cellulose fibers, wrapping the unperforated sheet about all surfaces of an annular package of regenerated cellulose filamentary material freshly prepared from viscose, treating the wrapped package with aqueous after-treating liquids including an aqueous alkaline solution which is a desulfiding agent for the filamentary material and a saponifying agent for the cellulose ester to simultaneously desulfide the filamentary material and at least partially de-esterify the ester, finally washing the wrapped package, and thereafter heating all portions of the wrapped package to thereby (1) dry the filamentary material with shrinkage of the filamentary package and (2) shrink the sheet of bonded cellulose fibers and de-esterified cellulose ester fibers with the package.

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**2,647,817**

**METHOD OF FORMING ALKALINE EARTH METAL-BERYLLIUM DOUBLE FLUORIDE COMPOUNDS**

**Henry C. Kawecki, Temple, Pa., assignor to The Beryllium Corporation, Reading, Pa., a corporation of Delaware**

**No Drawing. Application January 19, 1946, Serial No. 642,425**

**4 Claims. (Cl. 23—88)**

1. The method of producing an alkaline earth metal-beryllium double fluoride which comprises acidifying an aqueous solution to a pH of about 4 to 5, acidifying an aqueous solution of an alkali metal-beryllium double fluoride to a pH of about 4 to 5, and admixing the two acidified solutions at a temperature within the range of about 20° to 100° C. with the resulting precipitation of the alkaline earth metal-beryllium double fluoride.

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**2,647,818**

**PROCESS OF PREPARING BERYLLIUM FLUORIDE**

**Henry C. Kawecki, Temple, Pa., assignor to The Beryllium Corporation, a corporation of Delaware**

**No Drawing. Application February 28, 1947, Serial No. 731,724**

**6 Claims. (Cl. 23—88)**

1. The process of preparing beryllium fluoride which comprises reacting substantially pure beryllium basic acetate with one of the ammonium fluoride salts of the group consisting of ammonium fluoride and ammonium bifluoride, and thereafter recovering the beryllium fluoride from the reaction mixture.

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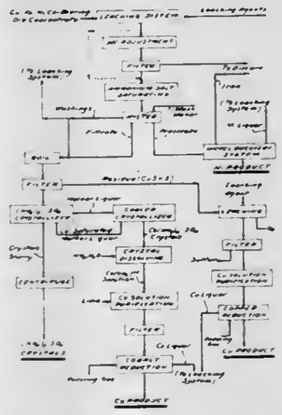
**2,647,819**

**COPPER, COBALT, AND AMMONIUM SULFATE RECOVERY FROM MINERAL LEACH LIQUORS**

**Patrick J. McGauley, Glen Cove, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**

**Application June 4, 1949, Serial No. 97,228**

**5 Claims. (Cl. 23—117)**



3. In the treatment of solutions obtained by oxidation leaching of sulfur-bearing mixtures containing nickel, cobalt and copper whereby sulfates of metal values are dissolved, the method of separating the cobalt content of the solution which comprises: adjusting the pH of the solution to from about 4–6.5 and the sulfates content to the equivalent of solutions at about 25° C. containing concentrations of (*a*) copper and cobalt not over about 10% and 6% respectively at about 10% ammonium sulfate and 2% and 1.3% respectively at about 20% ammonium sulfate,

and (b) ammonium sulfate of at least 9%, at which substantially all of the copper and cobalt remain in solution and substantially all nickel precipitates; removing any nickel-bearing precipitate; heating the residual solution sufficiently to precipitate substantially all of the copper values and removing the precipitated copper values; adjusting the pH of residual liquor to about 3.5–5.5 and maintaining this acidity; concentrating adjusted liquor to crystallize ammonium salt therefrom, continuing ammonium salt crystallizing until the cobalt sulfate-ammonium sulfate double salt content approaches the saturation point at the operating temperature and collecting resultant ammonium salt crystals; and continuously passing concentrated cobalt mother liquor to a cobalt cooler-crystallizer, whereby cobalt-ammonium sulfate double salt is crystallized, collecting cobalt salt crystals and returning residual mother liquor to the ammonium salt crystallizing to be further concentrated in cobalt.

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2,647,820

## PROCESS FOR RECOVERING NICKEL AND/OR COBALT AMMONIUM SULFATE FROM SOLUTIONS CONTAINING NICKEL AND/OR COBALT VALUES

**Frank Arthur Forward, Vancouver, British Columbia, Canada, assignor to Sherritt Gordon Mines Limited, Toronto, Ontario, Canada, a corporation of Ontario, Canada**

**No Drawing. Application July 16, 1951, Serial No. 237,066. In Canada November 6, 1948**
**12 Claims. (Cl. 23—119)**

1. The method of treating an ammoniacal solution containing metal values selected from the group consisting of nickel and cobalt values which comprises the steps of adjusting the pH value of the solution to within the range of from about pH 8 to about pH 7.1, adding sulphuric acid to the solution to reduce the pH value of the solution to at least about pH 4 to convert said metal values to and precipitate them from said solution as metal ammonium sulphates, and separating precipitated metal ammonium sulphates from said solution.

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2,647,821

## PROCESS OF PREPARING BERYLLIUM OXIDE

**Henry C. Kawecki, Temple, Pa., assignor to The Beryllium Corporation, a corporation of Delaware**

**No Drawing. Application February 28, 1947, Serial No. 731,723**
**2 Claims. (Cl. 23—140)**

1. The process of preparing beryllium oxide of high purity substantially free from the impurities consisting essentially of iron and aluminum normally associated with beryllium compounds derived from beryllium ore which comprises converting said relatively impure beryllium compound into the form of a beryllium basic acetate product, subjecting the resulting beryllium basic acetate product to distillation at a temperature within the range of about 330° to 350° C. whereby acetates of said impurities present in the product are decomposed, separating the beryllium basic acetate vapors from the decomposition products of said decomposed acetates, and thereafter burning the separated beryllium basic acetate in the vaporized state in the presence of air to form beryllium oxide of high purity.

2,647,822

## NITRIC OXIDE RECOVERY SYSTEM

**Robert D. Pike, Greenwich, Conn.**

**Application April 13, 1948, Serial No. 20,672**
**7 Claims. (Cl. 23—161)**



5. In a method of collecting nitric oxide from gases containing the same in small amounts, the steps which comprise cooling the nitric oxide containing gas by refrigeration to a temperature below 32° F. to remove the water therefrom, then oxidizing the nitric oxide content of the gas catalytically in the absence of moisture and converting the nitric oxide to nitrogen peroxide by passing through a bed of silica gel, removing the gas containing the nitrogen peroxide from the silica gel, depositing solid nitrogen peroxide from the gas by refrigerating the gas, recovering the nitrogen peroxide, and passing the remaining gas through silica gel to adsorb the remaining nitrogen peroxide therefrom.

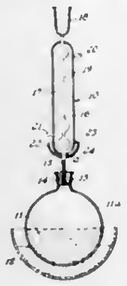
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2,647,823

## CONDENSING APPARATUS

**Gijsbertus C. van Wessem, Harrison, and Ernst H. Kastning, Poundridge, N. Y.**

**Application June 17, 1949, Serial No. 99,642**
**1 Claim. (Cl. 23—259)**



In combination with a condenser having a central tube removably connected through a stopper with the mouth of a reaction vessel and an elongated cooling jacket externally surrounding said tube for the reception of a cooling medium for cooling and condensing hot liquids and gases surging through the tube from the reaction vessel and whereupon atmospheric condensation tends to occur and contaminate the contents of the reaction vessel, an integral concentric cup-like member disposed near the lower end of the condenser adjacent the reaction vessel and shaped to conform to the external configuration



of the condenser, said cup-like member being so disposed with respect to the cooling jacket that substantially all atmospheric condensate forming on the external surfaces of said cooling jacket are directed into and collected by the said cup-like member, a drain near the lower portion of the cup-like member extending beyond the area of the stopper connections and mouth of the reaction vessel so that said atmospheric condensate is conveyed thereby away from the reaction vessel and contamination thereof effectively avoided.

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2,647,824

## STABILIZED COMPOSITIONS CONTAINING HYDROGENATED QUINOLINES WITH OXIDATION INHIBITORS

**Allen R. Jones, Roselle, and John O. Smith, Jr., North Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application January 26, 1949, Serial No. 72,993**
**5 Claims. (Cl. 44—63)**

1. A hydrocarbon composition normally characterized by oxidation instability containing small quantities of a hydrogenated quinoline selected from the class consisting of tetrahydroquinoline, tetrahydroquinaldine, decahydroquinoline, and decahydroquinaldine and an oxidation inhibitor consisting of N-n-butyl paramino phenol, said composition containing a weight ratio of said hydrogenated quoline to said inhibitor ranging from 0.1 to 10.

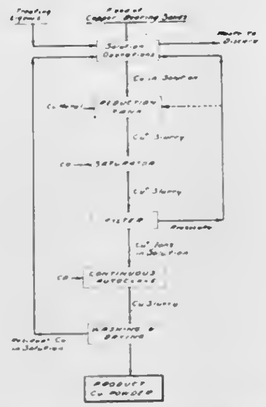
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2,647,825

## PRECIPITATION OF PURE METALLIC COPPER FROM COPPER-BEARING SOLUTIONS

**Edward S. Roberts, New York, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**

**Application April 8, 1949, Serial No. 86,156**
**11 Claims. (Cl. 75—0.5)**



1. In the process of recovering copper in high purity from solid copper-bearing material wherein said material is treated by "solution operations" to obtain a solution containing cupric and cuprous ions and copper metal is chemically precipitated from resultant solution, the improvement which comprises: contacting additional copper metal with said solution and at below 100° C., substantially saturating the liquid with carbon monoxide, whereby additional copper is introduced into solution with a concurrent equivalent reduction of cupric to cuprous ions; subjecting so-treated liquor, at a pressure of from about 75 to about 1000 pounds per square inch and at least sufficient to prevent boiling of the solution and under an atmosphere comprising carbon monoxide to a temperature above 100° C., but not more than 150° C. for ammoniacal liquors and 300° C. for acid liquors, for sufficient time to precipitate at least an amount of copper metal powder greater than that dissolved in reducing cupric to cuprous ions, but not more than so much as is at least 99.9% copper; collecting precipitated copper and recirculating residual copper to the "solution operations."

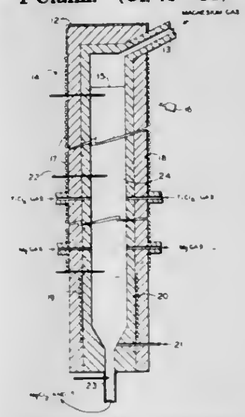
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2,647,826

## TITANIUM SMELTING PROCESS

**James Fernando Jordan, Huntington Park, Calif.**

**Application February 8, 1950, Serial No. 143,000**
**1 Claim. (Cl. 75—84)**



In the process wherein titanium tetrachloride is reacted with a reducing agent selected from the group consisting of magnesium, sodium and potassium to form titanium and a chloride of said reducing agent, the improvement, which comprises: heating said reducing agent chloride to form a molten pool of said reducing agent chloride at a temperature that lies above the boiling point of said reducing agent and below the boiling point of said reducing agent chloride; introducing and dispersing said reducing agent within said molten pool at a point that lies below the point at which said titanium tetrachloride is being introduced into and dispersed within said molten pool, so as to form titanium particles dispersed within said molten pool as said reducing agent and said titanium tetrachloride contact each other within said molten pool; and withdrawing molten reducing agent chloride containing titanium particles from said molten pool at a point that lies below the point at which said reducing agent is being introduced into said molten pool.

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2,647,827

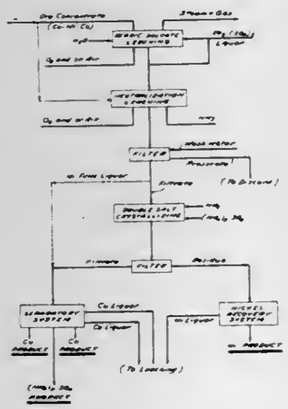
## RECOVERY OF Cu AND Ni FROM FLOTATION CONCENTRATE

**Patrick J. McGauley, Glen Cove, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**

**Application June 4, 1949, Serial No. 97,226**
**10 Claims. (Cl. 75—103)**

1. In treating copper-bearing minerals mixtures containing at least one additional "metal"-

bearing mineral, said "metal" being selected from the group consisting of nickel, cobalt, and mixtures thereof, at least a part of said minerals being sulfides, by subjecting the mixture to an acidic oxidation leach in the presence of ferric sulfate to obtain a solution of soluble copper and "metal" sulfates, the improved procedure for eliminating iron from said solution, which comprises the steps of: conducting said acidic oxidation leaching; subjecting the resultant slurry to an additional oxidation leach in the presence of oxidizable sulfides; during said additional leaching, introducing ammonia into the liquor in only sufficient amount to convert substantially all the dissolved iron sulfates into insoluble ferric hydroxide, and filtering the resultant slurry, whereby substantially all the iron in the slurry is removed in the presscake.



2. In treating copper-bearing minerals mixtures containing at least one additional "metal"-bearing mineral, said "metal" being selected from the group consisting of nickel, cobalt, and mixtures thereof, at least a part of said minerals being sulfides, by subjecting the mixture to an acidic oxidation leach in the presence of ferric sulfate to obtain a solution of soluble copper and "metal" sulfate, the improved procedure for eliminating iron and "metal" from said solution, which comprises the steps of: conducting said acidic oxidation leaching; subjecting the resultant slurry to an additional oxidation leach in the presence of oxidizable sulfides; during said additional leaching, introducing ammonia into the liquor in only sufficient amount to convert substantially all the dissolved iron sulfates into insoluble ferric hydroxide; filtering the resultant slurry, whereby substantially all the iron in the slurry is removed in the presscake; adding to the filtrate ammonium sulfate and additional ammonia in sufficient amounts to produce in the solution an ammonium sulfate concentration of at least 9% and sufficient diluent to produce a copper concentration not exceeding the solubility of copper sulfate at the ammonium sulfate concentration, whereby dissolved "metal" sulfate is converted to and precipitated as insoluble "metal"-ammonium sulfate double salt, but any copper sulfate remains dissolved, and collecting the precipitated "metal"-ammonium sulfate double salt.

**2,647,828**
**RECOVERY OF Ni FROM AMMONIA LIQUORS**
**Patrick J. McGauley, Glen Cove, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**
**Application June 4, 1949, Serial No. 97,227**
**4 Claims. (Cl. 75—103)**



1. The treatment of a liquor containing dissolved copper and nickel values to isolate the nickel values which includes the steps of: removing any solids from the liquor; producing in the liquor an ammonium sulfate concentration of from about 10% to about 40%; adjusting the copper content of the liquor to from not more than about 8% at a 10% ammonium sulfate concentration to not more than about 1% at a 40% ammonium sulfate concentration; adjusting the pH of the solids-free liquor to from about 4.0 to about 6.5 whereby all the copper values remain in solution but substantially all the nickel values are precipitated, and collecting said precipitate.

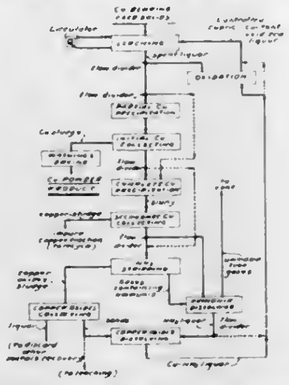
2. A process according to claim 1 in which said liquor contains ferric ions characterized in that prior to said first removal of solids from the liquor the pH thereof is adjusted to from about 3 to about 4 whereby the ferric iron precipitates, said precipitate being separated from the residual liquor before further pH adjustment.

**2,647,829**
**DECOMPOSITION OF COPPER SCRAP AND ALLOYS WITH COPPER AMMONIUM CARBONATE SOLUTIONS**
**Patrick J. McGauley, Glen Cove, N. Y., and Paul J. Masur, Sayreville, N. J., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application December 17, 1949, Serial No. 133,665**
**5 Claims. (Cl. 75—103)**

1. In recovering copper from copper-bearing metals, the improvement in leaching which comprises treating pieces of said metals with a strong ammoniacal-copper carbonate solution, said treating solution being substantially saturated as to copper, principally in the cupric condition, and containing sufficient ammonia to keep the copper in solution; continuing said treatment until said pieces are substantially converted to a soft sludge of substantially the same copper content as said pieces; and then, with a different liquor, leaching said sludge to separate copper from other metals therein.



**2,647,830**
**PREPARATION OF PURE COPPER METAL FROM COPPER-BEARING SCRAP**
**Louis N. Allen, Jr., Short Hills, N. J., and Patrick J. McGauley, Glen Cove, and Edward S. Roberts, New York, N. Y., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**
**Application December 17, 1949, Serial No. 133,666**
**18 Claims. (Cl. 75—103)**

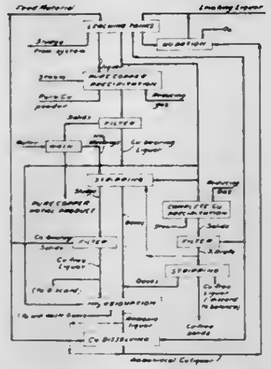


1. In recovering copper from copper-bearing material by leaching said material with an aqueous ammoniacal copper salt solution and chemically precipitating copper from the leach liquor, the improvement which comprises preparing an ammoniacal copper salt solution initially containing at least 20, but not more than about 110 grams of cupric copper per liter, and contacting the solution thus prepared with copper-bearing material at a velocity of about 0.01–5.0 feet per second over the surface.

2. A process according to claim 1, in which the leach liquor is contacted with the copper-bearing material at a velocity of from about 0.1–1.0 foot per second over the surface.

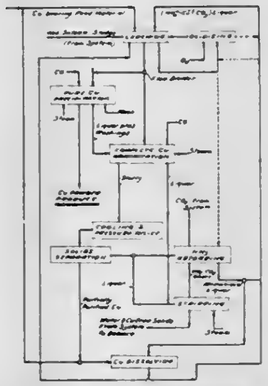
**2,647,831**
**PREPARATION OF PURE COPPER METAL FROM NONFERROUS METAL-BEARING SCRAP**
**Louis N. Allen, Jr., Short Hills, N. J., and Patrick J. McGauley, Glen Cove, and Edward S. Roberts, New York, N. Y., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**
**Application December 14, 1950, Serial No. 200,794**
**10 Claims. (Cl. 75—103)**

1. In a cyclic process of recovering an ammoniacal liquor-soluble non-ferrous metal as powder of high purity from an aqueous ammoniacal metal salt liquor, containing said metal and other metals, the improvement which comprises: at superatmospheric pressure and at above about 250° F., subjecting a portion of said liquor to chemical reduction with a sulfur-free reducing gas, maintaining the reducing conditions only for sufficient time to reduce not more than so much of the desired metal as will precipitate as powder of high purity, collecting so-precipitated metal as product; separately subjecting a portion of leach liquor to similar reducing conditions at a temperature and for a time sufficient to obtain a less pure precipitate comprising substantially the entire dissolved content of said desired metal, separating said less pure precipitate from residual liquor, and returning collected less-pure precipitate for retreatment in a later cycle, at least a part of said other metal content in the residual liquor being removed from the circuit in each cycle.



10. In recovering copper of high purity from an aqueous ammoniacal copper salt solution wherein copper is chemically precipitated from said solution at superatmospheric temperature and pressure with a sulfur-free reducing gas: the combination therewith of the improvement which consists in initiating the precipitation by reduction with said gas of said high purity copper metal from said solution in the presence of copper metal powder of a purity of at least 99.9%.

**2,647,832**
**PREPARATION OF PURE COPPER METAL FROM COPPER-BEARING SCRAP**
**Louis N. Allen, Jr., Short Hills, N. J., and Patrick J. McGauley, Glen Cove, and Edward S. Roberts, New York, N. Y., assignors to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware**
**Application June 1, 1950, Serial No. 165,524**
**7 Claims. (Cl. 75—108)**



5. In a process for recovering copper metal from copper-bearing material in which said material is leached with an aqueous ammoniacal solution of a copper salt and copper is chemically precipitated from leach liquor by treatment with a reducing gas; the improvement which comprises: withdrawing leach solution from such treatment, treating withdrawn solution, at a temperature not greater than 125° F., with carbon monoxide in an amount sufficient to dis-

solve therein a quantity equivalent to at least a major portion of the copper content of the withdrawn liquor, and heating resultant solution to above about 150° F. under equivalent pressure for sufficient time only to reduce and precipitate copper in metallic form therefrom in amount not exceeding that which is at least 99.9% pure.

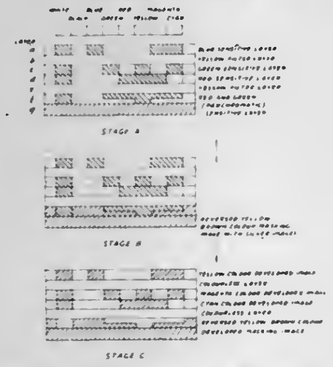
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**2,647,833**

## COLOR PHOTOGRAPHIC FILM AND PROCESS

**Geoffrey Bond Harrison and Richard Robert Robinson, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company**

**Application February 8, 1950, Serial No. 143,157**
**In Great Britain February 9, 1949**
**13 Claims. (Cl. 95—2)**



1. An integral multipack for colour photography which comprises an assembly of three light-sensitive image-recording silver halide emulsion layers selectively sensitised to blue, green and red light and each containing a substantive colour-former which couples with the oxidation product of an aromatic primary amino developing agent to yield a dye, the said colour-formers yielding dyes which are subtractive primary colours, the said layers being coated on a transparent support with the red and green-sensitive layers adjacent and the blue-sensitive layer on one side of them, a photographic silver halide masking layer located in the position most remote from the blue-sensitive image-recording layer, said masking layer being sensitive to light of the same waveband as one of the image-recording layers which contains a colour-former giving rise, by colour development, to a dyestuff which absorbs undesirably in a waveband which it should desirably transmit, and a blue-absorbing filter layer, the colour of which is resistant to development, located between the said masking layer and the said image-recording layers.

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**2,647,834**

## FRAMED PHOTOGRAPHIC PLATE

**William Rabkin and Leonard Baron, New York, N. Y., assignors to International Mutoscope Corporation, Long Island City, N. Y., a corporation of New York**

**Application June 3, 1948, Serial No. 30,783**
**5 Claims. (Cl. 95—8)**

1. A framed photographic plate for automatic photographic machines, comprising a plastic frame having an inner peripheral edge wall defining an opening and having an additional inner peripheral edge wall defining a recess at the back of the frame around said opening, said additional edge wall being disposed rearwardly and laterally outwardly of said first mentioned peripheral edge wall, said recess having a peripheral shoulder extending laterally from said first mentioned peripheral edge wall to said additional edge wall and inclined from the said first mentioned edge wall laterally towards the front of the frame, and a photo-sensitive plate mounted in said recess and having its outer marginal edge portion pressed tightly against said shoulder



continuously therearound at said opening and forming a liquid-tight joint between said plate and the frame at said inner peripheral edge wall of the frame, and a backing member mounted in said recess for holding said plate pressed against said shoulder, said backing member comprising a sheet metal plate having marginal edge portions thereof forced into penetrating engagement into the body of said additional peripheral edge wall for firmly securing said backing member in position.

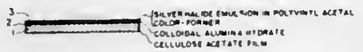
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**2,647,835**

## LIGHT-SENSITIVE PHOTOGRAPHIC ELEMENT AND PROCESS OF COATING

**Clay Weaver, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**Application September 29, 1948, Serial No. 51,851**
**9 Claims. (Cl. 95—8)**




1. A photographic element comprising a support bearing at least one light-sensitive silver halide layer and at least one stratum of a synthetic hydroxyl polymer having a plurality of recurring intralinear

$$-CH_2-CHOH-$$

groups as polymer-forming units, said polymer having in contact therewith transparent colloidal alumina hydrate, said stratum of polymer being formed from an aqueous solution having a pH of 6–10.

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**2,647,836**

## PHOTOGRAPHIC FILM ELEMENTS

**Stanley Hancock Patten, Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**Application April 9, 1952, Serial No. 281,325**
**11 Claims. (Cl. 95—9)**




1. A photographic film comprising a hydrophobic film base having on one surface a layer comprising Werner type chromium-carboxylic acid complex and a film-forming binding agent and having disposed on the other surface at least one colloid silver halide emulsion layer, said carboxylic acid being taken from the class consisting of aliphatic carboxylic acids of less than 6 carbon atoms, aromatic carboxylic acids of 7 carbon atoms and aralkyl acids of not more than 8 carbon atoms and such acids that contain at least one dipole group.

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**2,647,837**

## METHOD OF PREPARING HOPS BY CATALYTIC ISOMERIZATION OF HUMULON

**Václav Salač, Prague, Czechoslovakia, assignor to Ceskoslovenske pivovary, lihovary a Konservarny, narodni podnik, Prague, Czechoslovakia**

**No Drawing. Application April 26, 1951, Serial No. 223,138. In Czechoslovakia May 27, 1949**
**4 Claims. (Cl. 99—50.5)**

1. A method for the preparation of wort by treating hop cones for a catalytic isomerization of humulon comprising boiling said hop cones in water to produce an extract thereof, drawing off said extract from said decocted hop cones and mixing said extract with a quantity of an alkaline solution of a weakly acid reactive medium to maintain in said extract during its isomerization an acidity of a pH equal to 6.2 to 7.5, boiling said extract for a duration of 10 minutes to 120 minutes and then adding said isomeric extract and said decocted hop cones to the boiling wort.

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**2,647,838**

## PROCESS OF MAKING A BANANA PRODUCT

**Roger T. Stone, San Jose, Costa Rica, assignor to Food Concentrates, Inc., New York, N. Y., a corporation of Delaware**

**Application October 11, 1950, Serial No. 189,525**
**In Honduras February 3, 1950**
**4 Claims. (Cl. 99—154)**




1. The method of making a storeable banana food product having substantially the flavor and color of ripe bananas comprising slicing peeled, ripe bananas, saturating the sliced bananas with a syrup, subjecting the saturated sliced bananas to reduced atmospheric pressure to remove gases, removing excess liquid from the de-gassed bananas, macerating the bananas to form a puree and then subjecting the puree to a temperature of 158°–190° F. at a pressure above atmospheric to control frothing of the bananas.



**2,647,839**

## WATER DISPLACING RUST PREVENTIVE COMPOSITIONS AND PROCESS OF COATING A BASE THEREWITH

**William A. Zisman, Washington, D. C., and Hayward R. Baker, Mount Rainier, Md.**

**No Drawing. Application September 16, 1949, Serial No. 116,202**
**15 Claims. (Cl. 106—14)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A water-displacing corrosion-inhibiting composition consisting essentially of more than 90% by weight of at least one aliphatic monohydric alcohol having from 4 to 8 carbon atoms and a straight chain of at least 3 carbon atoms and miscible proportions of from 0.1 to less than 10% by weight of a polar type rust inhibitor which has a water solubility not exceeding 3% by weight and is substantially non-volatile at temperatures below 150° C.

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**2,647,840**

## IMPREGNATION OF LEATHER

**René Oehler, Rockville, and Joseph R. Kanagy, Silver Spring, Md.**

**No Drawing. Application November 3, 1950, Serial No. 194,008**
**7 Claims. (Cl. 117—4)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. The process of impregnating leather with rubber, comprising splitting a thin layer from the grain side of the leather and immersing the remainder of the leather into a solution of masticated rubber at a temperature from about 50° C. to about 80° C., said solution having a rubber solids concentration of at least about 30% and a viscosity at room temperature of between about 6 and about 160 Gardner bubble viscosimeter seconds.

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**2,647,841**

## PREPARATION OF LUMINESCENT SCREENS

**Martin L. Perl and John R. Elliott, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York**

**No Drawing. Application August 31, 1950, Serial No. 182,638**
**9 Claims. (Cl. 117—33.5)**

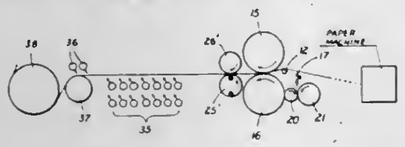
1. The method of settling a phosphor onto the face of a cathode ray tube which comprises the steps of introducing into said tube a cushioning layer comprising a dilute solution of a strong acid in an amount sufficient to cover the entire face of said tube and thereafter adding to the cushioning layer a silica sol composed of an alkali silicate and water and having a phosphor suspended therein, the $SiO_2$ content of the resultant mixture being from 0.3 to 1.0 per cent, by weight, based on the weight of the resultant mixture, said acid and said silicate being present in proportions such that the pH of the resultant mixture is from 6 to 7.5 maintaining the temperature of the resultant mixture from about 68° to about 100° F. for a period sufficient to allow the phosphor to settle onto and adhere to said face, and thereafter draining said tube of any remaining supernatant liquid and drying the settled phosphor.

2,647,842

## APPARATUS AND PROCESS FOR COATING PAPER

Rudolph N. Griesheimer and Robert C. Hydell, Chillicothe, Ohio, assignors to The Mead Corporation, Dayton, Ohio, a corporation of Ohio

Application January 31, 1948, Serial No. 5,526
14 Claims. (Cl. 117—64)



1. In the coating of paper to provide a substantially smooth and finished coating surface for receiving printing and the like, the method which comprises the steps of applying and distributing a predetermined and metered quantity of fluent mineral coating suspension to form a surface coating on the paper, bringing the coated surface of said paper into surface deforming contact with a movable smoothing member while said coating is still fluent and deformable on said paper to produce a substantially uniform and smooth surfaced layer of coating, concurrently effecting freezing of at least the surface zone of said coating while said coating is in contact with said smoothing member, and removing said paper and frozen coating from said smoothing member while substantially maintaining the smoothness of said frozen coating surface.

2,647,843

## ADHESIVE TAPE

Cyrus W. Bemmels, New Brunswick, N. J., assignor to Permacel Tape Corporation, a corporation of New Jersey

No Drawing. Application March 29, 1950, Serial No. 152,760
10 Claims. (Cl. 117—76)

1. Adhesive tape comprising a nonfibrous, nonmetallic, impervious hydrophobic organic cellulose acetate film backing; a normally tacky and pressure-sensitive adhesive coating based on a polymer selected from the group consisting of conjugated diene polymers, and vinyl ether polymers and their copolymers, and, therebetween, a primer coating in film form comprising a thin layer of a composition comprising polymeric constituents, including from about twenty to about eighty per cent of the polymer weight of a copolymer comprising from about fifteen to about forty-five per cent of its weight acrylonitrile and from about fifty-five to about eighty-five per cent of at least one butadiene, the remainder of the polymer part of said primer being predominantly at least one copolymer of major portions of butadiene and styrene.

2,647,844

## METHOD OF IMPREGNATING LEATHER WITH RUBBER COMPOSITIONS

René Oehler, Rockville, Md.

No Drawing. Application November 3, 1950, Serial No. 194,007
12 Claims. (Cl. 117—142)
(Granted under Title 35, U. S. Code (1952), sec. 266)

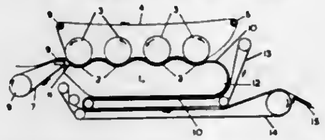
2. The process of impregnating leather with rubber, comprising immersing the leather for at least about 3 hours into an impregnating solution of rubber masticated to such a degree of plasticity that a 30% toluene solution of said masticated rubber will have a viscosity of not more than about 80 Gardner bubble viscosimeter seconds, said impregnating solution having a rubber solids concentration of at least about 30% and a viscosity between about 6 and about 160 Gardner bubble viscosimeter seconds.

2,647,845

## LAUNDRY CALENDER TAPE

William Ivan Taylor and Selwyn George Hawtin, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

Application July 13, 1950, Serial No. 173,652
In Great Britain July 21, 1949
1 Claim. (Cl. 117—144)



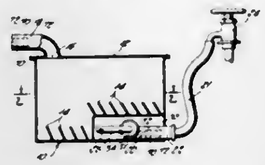
An impregnated ribbon suitable for use as a laundry-calender tape, said ribbon being a woven fabric of weight (before impregnation) from 1 to 2 oz./sq. yard and composed of continuous filament regenerated cellulose yarn of denier from 50 to 70 and of tenacity at least 6 gms./denier, and being impregnated with 8 to 10% of its weight of an impregnant consisting of unplasticized cellulose acetate.

2,647,846

## METHOD AND APPARATUS FOR WASHING ARTICLES BY SUPERSONIC VIBRATION IN A FLOWING LIQUID

Samuel Bagno, Astoria, N. Y.

Application February 28, 1948, Serial No. 12,013
15 Claims. (Cl. 134—1)



1. The method of cleaning articles comprising placing the articles in a container having an inlet and an outlet, continuously admitting liquid under pressure into the container and discharging it through the outlet, and producing pressure waves of ultra-sonic frequencies in the liquid in the container by periodically interrupting the admission of said liquid.

2,647,847

## METHOD FOR INTERFITTING MACHINED PARTS

Millard S. Black, Huntington Park, and Albert G. Satterla, Jr., Whittier, Calif., assignors to Fluid Packed Pump Company, Los Nietos, Calif., a partnership

Application February 28, 1950, Serial No. 146,764
11 Claims. (Cl. 148—4)

1. A method for interfitting two metal parts one within the other that consists in providing the outer part with a seat that is slightly larger than the inner part to receive said inner part with sliding clearance, forming said inner part of a ferrous metal that includes 3.5 to 5% of nickel and 1.4 to 2% of chromium, and subjecting the assembled parts to a sub-zero temperature that is sufficiently low enough to cause said inner part to permanently grow to a size larger than the seat it occupies and to tightly fit said seat.





10. A method for interfitting two tubular metal parts one within the other that consists in casting the inner part of a ferrous metal that includes 3.5% to 5% of nickel and 1.4% to 2% of chromium and which metal hardens when subjected to sub-zero temperature, machining the outer surface of said part while the same is at ordinary room temperature and while relatively soft, forming a seat in the outer part that is slightly larger than the machined inner part while said outer part is also at ordinary room temperature, assembling the inner part with sliding clearance into the seat of the outer part, and subjecting the assembled parts to sub-zero temperature at least as low as −60° F. to cause said inner part, by reason of its composition, to harden and to permanently grow to a size larger than the initial size of the seat in the outer part and to, thereby, tightly fit said seat after the parts have been returned to room temperature.

2,647,848

## LETTERING FILM

Donald J. Douglas, Mendota Township, Dakota County, Philip V. Palmquist, New Canada Township, Ramsey County, and Jerome D. Grove, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application April 10, 1950, Serial No. 155,101
11 Claims. (Cl. 154—46.8)



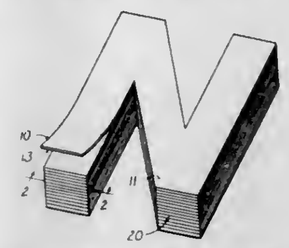

1. A composite supported lettering-film structure as herein described, adapted for storing and for forming into desired shapes while in stack form, with subsequent ready removal of individual units therefrom, said structure comprising a thin, flexible and conformable lettering-film temporarily mounted on a unitary carrier sheet, the lettering-film consisting of (1) a decorative weather-resistant film, at least one mil thick, of "non-paintable" organic polymer material selected from the class consisting of methacrylate polymers vinyl chloride polymers, and a heat-cured blend of alkyd resin and amino-aldehyde resin; and, permanently bonded to one surface of said film, (2) a layer of normally non-tacky waterproof adhesive selected from the class consisting of heat-activatible and solvent-activatible adhesives and comprising a rubbery polymeric base, a compatible heat-advancing phenol-aldehyde resin, and a compatible thermoplastic tackifier resin; the carrier sheet being temporarily adhered to the other surface of said decorative film and dry-strippable therefrom; said carrier sheet comprising a flexible sheet material each surface of which constitutes a smooth continuous film of a polymer selected from the class consisting of thermoset plasticized amino-aldehyde resin, polyethylene, cellulosic polymer, and methacrylate polymer; the elements of the structure being selected such that the adhesion at normal temperatures of the decorative film to the adjacent surface of the carrier sheet is greater than the adhesion of the adhesive layer to the opposite surface of the carrier sheet.

2,647,849

## LETTERING FILM

Donald J. Douglas, Mendota Township, Dakota County, Philip V. Palmquist, New Canada Township, Ramsey County, and Jerome D. Grove, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

Application April 10, 1950, Serial No. 155,102
8 Claims. (Cl. 154—46.8)

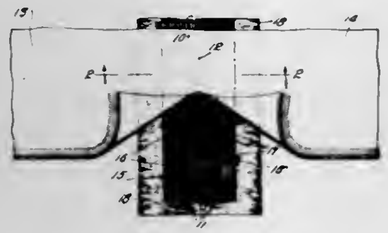



1. A composite supported lettering-film structure as herein described, adapted for storing and for forming into desired shapes while in stack form, with subsequent ready removal of individual units therefrom, said structure comprising a thin, flexible and conformable lettering-film temporarily mounted on a unitary carrier sheet, the lettering-film comprising: (1) a decorative weather-resistant film, at least one mil thick, of paintable organic film-forming material selected from the class consisting of drying-oil varnishes, cellulosic lacquers, and air-drying alkyd resins; and, permanently bonded to one surface of said film, (2) a layer of normally non-tacky waterproof adhesive selected from the class consisting of heat-activatible and solvent-activatible adhesives and comprising a rubbery polymeric base and a compatible heat-advancing phenol-aldehyde resin; the carrier sheet being temporarily adhered to the other surface of said decorative film and dry-strippable therefrom; said carrier sheet comprising a flexible sheet material each surface of which constitutes a smooth continuous film of a flexible waterproof film-forming poly-

mer selected from the class consisting of thermoset plasticized amino-aldehyde resin, polyethylene, cellulosic polymer, and methacrylate polymer; the elements of the structure being selected such that the adhesion at normal temperatures of the decorative film to the adjacent surface of the carrier-sheet is greater than the adhesion of the adhesive layer to the opposite surface of the carrier sheet.

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**2,647,850**
**EXTENSIBLE TAPE FOR JOINING CARPET SECTIONS**
**Walter J. Reinhard, Westwood, N. J.**
**Application December 13, 1950, Serial No. 200,620**
**5 Claims. (Cl. 154—53.5)**



1. A tape for seaming together the abutting edges of adjacent carpet sections, comprising fabric material relatively inextensible in a direction transverse to the carpet seam and extensible in a direction longitudinal to the carpet seam and a strip of paper secured to the back of the fabric tape and crinkled transversely thereof so as to be extensible in a direction lengthwise of the tape with the fabric portion and to protect the floor surfaces from adhesive.

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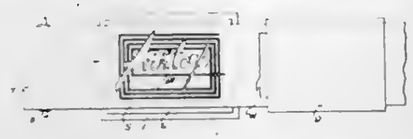
**2,647,851**
**METHOD OF MAKING A FIBER GLASS MAT**
**Ralph E. Schwartz, Hollywood, Calif., assignor to Vibradamp Corporation, Los Angeles, Calif., a corporation of California**
**Application February 1, 1952, Serial No. 269,429**
**1 Claim. (Cl. 154—101)**



The method of making a resilient laminated mat of glass fibers which comprises the steps of forming a plurality of individual mats of glass fibers coated with uncured thermo-setting resinous binder at intervals, each of said mats consisting of glass fibers substantially all of which are lying in the same plane and extending in the same direction, said thermo-setting resinous binder being only partially cured by the application of heat for a predetermined time short of heat-curing said resinous binder, stacking said individual mats one upon the other to provide a laminated glass fiber body of the desired thickness, heating said compressed laminated mat to cause said thermo-setting resinous binder to flow and increase the area of the fibers covered by the resin on the individual glass fibers at intervals throughout the length of the fibers and at the intersection of some of the fibers where they engage one another to hold them in engaging position, thereafter terminating the heating to provide an uncured thermo-setting resinous binder throughout the laminated mat, and thereafter cold-working said laminated mat by repeatedly subjecting the same to loading and unloading stress conditions to produce a finished glass fiber mat having high load-deflection and fatigue characteristics and which withstand relatively high load stresses without crumbling.

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**2,647,852**
**DESIGN FORMING AND ATTACHING METHOD**
**Albert W. Franklin, New York, N. Y.**
**Application January 28, 1950, Serial No. 141,000**
**1 Claim. (Cl. 154—118)**



A continuous method of manufacturing a composite unit of predetermined configuration, comprising the steps of feeding a strip of thin metal having a thermo-sensitive adhesive coating on one side lengthwise along a defined path in successive increments of limited movement, successively positioning backing sheets of materials which flow at the temperatures and pressures of the process opposite said strip in an indexed position with their upper faces spaced from and facing the coated side of said strip, successively applying cutting edges of predetermined configuration to the uncoated side of said strip to move it into contact with said backing sheets and shear a design of such configuration from said strip by pressing the cutting edges through said strip into said backing plates while heating and pressing the sheared design to adhere it to said backing plate, and relieving the pressure on said strip so that it resumes its spaced position with respect to the backing plate, thereby stripping unattached portions of the strip from the completed unit.

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**2,647,853**
**INJECTABLE SOLUTION OF SALT OF PARA-AMINOSALICYLIC ACID**
**Raymond Lardé and Maurice Pesez, Paris, France, assignors to Les Laboratoires Francais de Chimiotherapie, Paris, France, a French body corporate**
**No Drawing. Application November 28, 1950, Serial No. 198,042. In France November 29, 1949**
**2 Claims. (Cl. 167—58)**

1. A process of preparing stable, injectable aqueous solutions of salts of p-amino salicylic acid, comprising dissolving a salt selected from the group consisting of an alkali metal sulfite and an alkaline earth metal sulfite, and a salt of p-amino salicylic acid in water, adding to said solution an alkali hydroxide solution to adjust its pH to 7.6–7.8, adding to said solution a salt selected from the group consisting of an alkali metal hydrosulfite and an alkaline earth metal hydrosulfite, the amounts of said sulfites and hydrosulfites present in said solution being such that the persistent excess thereof is at the most 0.75% by weight of the salt of p-amino salicylic acid dissolved in said solution, and storing said aqueous solution in evacuated sealed containers.

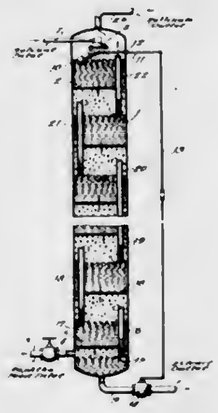


**2,647,854**
**INACTIVATION OF ENZYMES BY BARIUM PEROXIDE**
**Julius W. Pfannmuller, North Plainfield, N. J., and Alfons F. Noë, Staten Island, N. Y., assignors to Wallerstein Company, Inc., New York, N. Y., a corporation of New York**
**No Drawing. Application November 25, 1949, Serial No. 129,497**
**5 Claims. (Cl. 195—31)**

1. A method of inactivating an amylolytic enzyme which comprises adding barium peroxide to an amylolytic enzyme-containing substrate in an amount of at least 0.02% by weight of the solids in the mixture.

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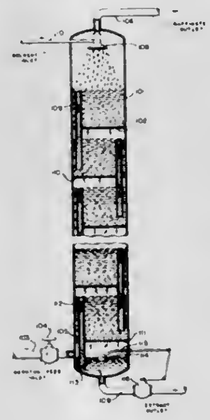
**2,647,855**
**APPARATUS AND PROCESS FOR COUNTERCURRENT LIQUID-LIQUID EXTRACTION**
**Glen R. Grunewald, Chicago, and Fred J. Pierce, La Grange, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application October 10, 1951, Serial No. 250,696**
**7 Claims. (Cl. 196—14.41)**



1. In a process for countercurrently contacting a light fluid with a relatively dense liquid which is substantially immiscible with the light fluid in a vertically elongated column having vertically spaced perforated partitions dividing the column into a plurality of contacting zones, the method which comprises introducing said dense liquid into the uppermost contacting zone for downward flow through the column, introducing said light fluid into the lowermost contacting zone for upward passage through the column, maintaining in each of the contacting zones a lower layer of the dense liquid and an upper layer of the light fluid separated by an interface therebetween, passing dense liquid in subdivided form from the lower layer in each of said zones except the lowermost through the light fluid layer in the next lower zone and then into the dense liquid layer in the last-named zone, withdrawing light fluid at the interface in each zone except the uppermost and passing the same upwardly through and out of contact with the light fluid layer immediately above said interface and upwardly through and out of contact with the dense liquid layer above the last-named light fluid layer into the next higher light fluid layer in the column, regulating the flow rate of said dense liquid to maintain the interface in said uppermost zone at a substantially constant level whereby the interface in each of the lower zones remains at a substantially constant predetermined level, removing the contacted light fluid from said uppermost zone and from the column, and withdrawing the dense liquid from the lowermost zone and from the column.

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**2,647,856**
**APPARATUS AND PROCESS FOR COUNTERCURRENT LIQUID-FLUID EXTRACTION**
**Glen R. Grunewald, Chicago, and Fred J. Pierce, La Grange, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**Application June 9, 1952, Serial No. 292,494**
**7 Claims. (Cl. 196—14.41)**



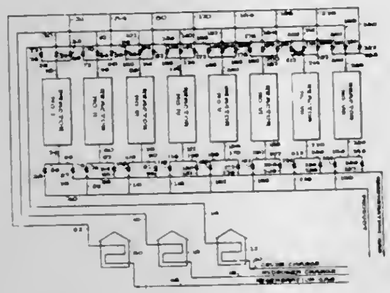
1. In a process for countercurrently contacting a light fluid with a relatively dense liquid which is subsequently immiscible with the light fluid in a vertically elongated column having vertically spaced perforated partitions dividing the column into a plurality of contacting zones, the method which comprises introducing said dense liquids into the uppermost contacting zone for downward flow through the column, introducing said light fluid into the lowermost contacting zone for upward passage through the column, maintaining in each of the contacting zones a lower layer of the dense liquid and an upper layer of the light fluid separated by an interface therebetween, passing light fluid in subdivided form from the upper layer in each of said zones except the uppermost through the dense liquid layer in the next higher zone and then into the light fluid layer in the last-named zone, withdrawing dense liquid at the interface in each zone except the lowermost and passing the same downwardly through and out of contact with the dense liquid layer immediately below said interface and downwardly through and out of contact with the light fluid layer below the last-named dense liquid layer into the next lower dense liquid layer in the column, maintaining the interface in said lowermost zone at a substantially constant level whereby the interface in each of the upper zones remains at a substantially constant predetermined level, removing the contacted light fluid from said uppermost zone and from the column, and withdrawing the dense liquid from the lowermost zone and from the column.

2,647,857

## HYDRODESULFURIZATION PROCESS

William A. Horne, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application October 4, 1949, Serial No. 119,513
4 Claims. (Cl. 196—26)



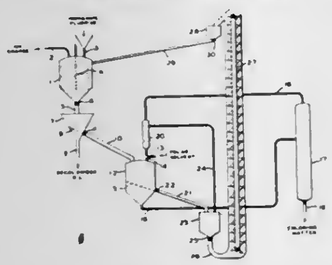
1. The process for hydrodesulfurizing a petroleum hydrocarbon which comprises passing the petroleum hydrocarbon and a hydrogen containing gas into an enclosed chamber which contains a contact agent selected from the group consisting of iron group metals, iron group metal oxides and mixtures thereof, such passage taking place at an initial space velocity (volumes of charge per hour per volume of contact agent in the entire enclosed chamber), reacting sulfurous material in the petroleum hydrocarbon with the iron group portion of the contact agent to form iron group metal sulfide, reducing the space velocity (volume of charge per hour per volume of contact agent in the entire enclosed chamber) to below the initial space velocity when a substantial amount of iron group metal sulfide has been formed, whereby the charge is in any given portion of the contact agent a longer time than at the initial space velocity, oxidatively regenerating the contact agent to restore it substantially to its original form and again placing the system on-stream by introducing hydrogen containing gas and petroleum hydrocarbon into the chamber.

2,647,858

## OIL DECOLORIZATION METHOD

Paul B. Weisz, Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application August 23, 1950, Serial No. 180,951
10 Claims. (Cl. 196—44)



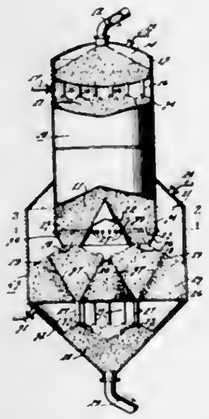
6. A method for removing color bodies from a petroleum lubricating oil containing the same which comprises contacting said oil with a solid water-insoluble inorganic metal fluoride, separating the oil so treated from said fluoride and regenerating the spent fluoride for further contact with untreated oil by elutriation thereof with an organic polar solvent.

2,647,859

## PROCESS AND APPARATUS FOR THE DISENGAGEMENT OF GASES FROM FLUENT SOLID PARTICLES IN THE CONVERSION OF HYDROCARBONS

John W. Barker, Silver Spring, Md., assignor to Houdry Process Corporation, Philadelphia, Pa., a corporation of Delaware

Application March 12, 1949, Serial No. 81,202
6 Claims. (Cl. 196—52)



1. In a hydrocarbon conversion process wherein gaseous hydrocarbons are passed concurrently downward through a compact bed of granular contact material gravitating through a contact zone, the method for disengaging said gas from said contact material which comprises flowing said contact material, at least at the lower end of said contact zone, as a confined annular stream, discharging said annular stream of contact material from said contact zone directly into a disengaging zone, said annular stream expanding both outwardly and inwardly upon discharge to form an enlarged bed of horizontally continuous cross-sectional area, the outwardly flowing and the inwardly flowing portions of said annular stream having exposed upper surfaces which form, respectively, the lowermost boundaries of a confined peripheral gas-collecting space and a confined central gas-collecting space, said exposed upper surfaces having a total horizontally-projected area substantially greater than the maximum cross-section area of the bed within said contact zone, passing the gas collected in said central gas-collecting space laterally outward as a confined stream through said annular stream into said peripheral gas-collecting space, discharging the total disengaged gas from said peripheral gas-collecting space, and discharging said contact material from the lower end of said expanded bed.

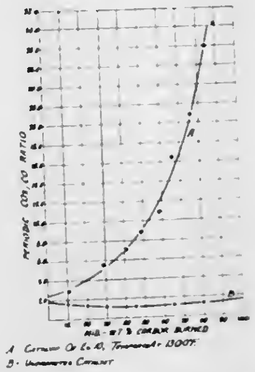


2,647,860

## PROCESS FOR CONTINUOUS HYDROCARBON CONVERSION WITH A SILICA-ALUMINA-CHROMIUM OXIDE CATALYST

Charles J. Plank and Rowland C. Hansford, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application November 16, 1949, Serial No. 127,626
5 Claims. (Cl. 196—52)



1. In a process for continuous catalytic conversion of heavier hydrocarbons by catalytic cracking to hydrocarbons within the gasoline boiling range characterized by the steps of passing a particle-form catalyst containing a major proportion of silica and a minor proportion of alumina downwardly as a compact moving bed through a conversion zone, contacting said heavier hydrocarbons with said catalyst in said conversion zone to induce said conversion with concomitant deposition on said catalyst of a combustible contaminating deposit, thereafter passing catalyst from said conversion zone carrying said deposit downwardly through a plurality of regeneration zones in series as a substantially compact moving bed, passing combustion-supporting gas in contact with said catalyst in said regeneration zones to burn off said combustible deposit, thereby forming regeneration fume as a result of burning said deposit of which the fume from the earlier of the zones has a tendency to burn in flues and the like due to the relatively low ratio of carbon dioxide to carbon monoxide therein when said catalyst consists of silica and alumina and thereafter returning the regenerated catalyst to said conversion zone; the improvement which comprises circulating as said catalyst a particle-form composite of silica, alumina and chromium oxide in which the chromium oxide constitutes from about 0.01 to about 1.0 per cent by dry weight, said catalyst being tempered in a substantially dry atmosphere at a temperature between about 1100° F. and 1400° F. after passage through said conversion zone and before return to said conversion zone.

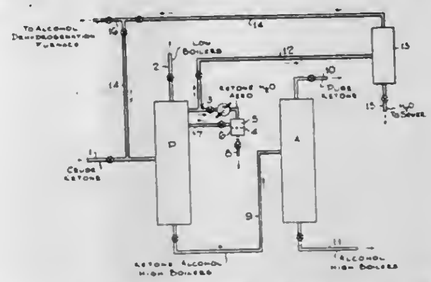
2,647,861

## PURIFICATION OF KETONES BY DISTILLATION

William M. Drout, Jr., Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 16, 1949, Serial No. 99,455
2 Claims. (Cl. 202—42)

1. A process for producing a pure dry ketone from an aqueous ketone selected from the group consisting of methyl ethyl ketone, methyl propyl ketones and methyl butyl ketones and containing higher boiling impurities including the alcohol impurity, which comprises feeding the aqueous ketone to a first distillation zone, distilling the aqueous ketone in said first distillation zone at a pressure of about 20–200 p. s. i. absolute resulting in the formation of high-boiling degradation products, withdrawing from said first distillation zone at a point above the aqueous ketone feed-point a ketone-water azeotrope stream containing more water than the atmospheric azeotrope, passing the withdrawn stream to a fractionation zone, distilling the



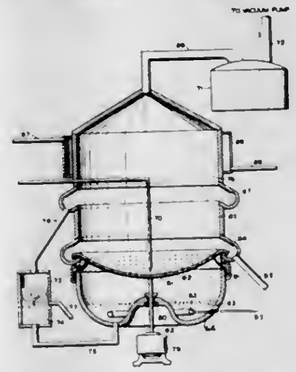
withdrawn stream in the fractionation zone at atmospheric pressure to remove overhead therefrom the ketone-water atmospheric azeotrope, removing the excess water as bottoms from the fractionation zone, returning the ketone-water atmospheric azeotrope to the first distillation zone, withdrawing from the bottom of the first distillation zone dry ketone containing higher boiling impurities including the alcohol impurity and higher boiling degradation products resulting from the pressure distillation, and separating pure dry ketone from the higher boiling impurities including the alcohol impurity and degradation products in a second distillation zone.

2,647,862

## PROCESS AND APPARATUS FOR VACUUM DISTILLATION

William B. Whitney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 13, 1948, Serial No. 48,971
11 Claims. (Cl. 202—46)

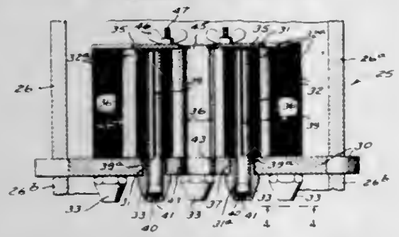


1. A method for the distillation of a distilland comprising introducing liquid to be distilled into a first zone, providing a quantity of a diffusion pump liquid selected from the group of diffusion

pump liquids consisting of mercury and dibutyl phthalate in a second zone disposed in general below said first zone, extending said distilland into the form of a thin film and supporting said thin film on a perforated solid surface forming a common boundary between said zones, maintaining a subatmospheric pressure in said first zone between the limits of $10^{-4}$ and 1 millimeter of mercury, maintaining the temperature of said thin film of distilland at a value below the boiling point of the distilland under the pressure maintained in the first zone, maintaining a condensing surface in said first zone at a distance from said thin film of distilland greater than the average means free path of the molecules in said thin film of distilland under the conditions of temperature and pressure maintained in said first zone, passing vapor of said diffusion pump liquid from said second zone through said perforations in a fixed direction toward said condensing surface and entraining therewith vapors of said liquid, condensing the vapors of distilland and vapors of said diffusion pump liquid, removing condensate from said first zone, and recovering condensed liquid as the product of the process.

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**2,647,863**
**APPARATUS FOR THE CONTROL OF DISTILLATION REFLUX**
**Joseph E. Kochie, Carteret, N. J., assignor to Foster-Wheeler Corporation, New York, N. Y., a corporation of New York**
**Application October 24, 1950, Serial No. 191,768**
**15 Claims. (Cl. 202—158)**



1. In fractionating apparatus a column, vapor and liquid contact means in the column wherein rising vapor and descending liquid flow countercurrent to and in contact with one another, distributing means for reflux liquid above the contact means for distributing reflux liquid to said contact means, the distributing means comprising a reflux liquid container disposed above the contact means, a dam in the path of flow of reflux liquid from said container to the contact means and in the path of flow of gases upwardly from said contact means, vapor-conducting risers extending upwardly from the dam and into said container, the risers having a gas inlet in communication with said column through the dam so as to receive vapor flowing upwardly from said contact means and a vapor outlet located above the normal liquid level in said container, tubular liquid-conducting means extending upwardly in the container from the dam and having a liquid discharge outlet in communication through the dam with the column below the dam, said tubular liquid-conducting means being arranged to discharge reflux liquid onto said contacting means at a plurality of spaced points, said liquid discharge outlet being in communication with the reflux liquid container through a slot in the tubular conducting means extending axially thereof above said dam, and liquid seal means disposed in the path of flow of reflux liquid from said container through the liquid discharge outlet of the tubular conducting means, said liquid seal means being of screen material.

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**2,647,864**
**ETCHING PROCESS**
**Daniel L. Goffredo, Easton, Pa.**
**No Drawing. Application May 29, 1952, Serial No. 290,821**
**5 Claims. (Cl. 204—17)**

1. A method of making etched plates comprising forming a resist image on the top member of a bimetallic plate, which top member consists of a metal lower in the electromotive force series of metals than the base member, removing the top member of the bimetallic plate under the non-resistant portions of the resist, and then etching the exposed portions of the base member of the plate to produce a relief image with a solution of a salt of the metal of the top portion, whereby metal is deposited from the solution and adheres to the edges of the etched pits and protects them from undercutting.

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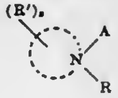
**2,647,865**
**BRIGHTENING ALUMINUM AND ALUMINUM ALLOY SURFACES**
**Herbert Manfred Freud, dit Jean Frasch, Nanterre, France**
**No Drawing. Application September 17, 1948, Serial No. 49,844. In France September 24, 1947**
**9 Claims. (Cl. 204—33)**

1. The process of producing a permanently highly reflective surface on articles formed of aluminum and aluminum alloys comprising the steps of degreasing the article; washing the degreased article; immersing the article in a highly acid aqueous bath essentially consisting of 30% to 35% phosphoric acid and 10% to 15% chromic acid so as to clean the article by removing alumina therefrom without attacking the aluminum metal, thereby producing a satin-like surface on the washed article; electrolyzing the satin-like surfaced article in an aqueous alkaline bath consisting essentialy of an alkali metal phosphate and an alkali metal aluminate in an amount such that said bath contains between 2% to 10% phosphate ions and between 0.5% to 5% aluminate ions so as to produce a thin coating of aluminum hydroxide on a surface of the article, thereby brightening the same, the aluminum article being the anode in the electrolytic cell; washing the thus coated article; subjecting the thus coated and washed article to a highly acid aqueous bath essentially consisting of phosphoric acid and chromic acid so as to dissolve alumina on the surface of the article, thereby further and evenly brightening the coated surface of the aluminum article; and washing the thus treated article so as to recover the final permanently brightened aluminum article.

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**2,647,866**
**ELECTROPLATING OF NICKEL**
**Henry Brown, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware**
**No Drawing. Application July 17, 1950, Serial No. 174,374**
**18 Claims. (Cl. 204—49)**

1. A bath for the electrodeposition of bright nickel comprising an aqueous acidic solution of at least one nickel salt selected from the group consisting of nickel chloride and nickel sulfate, said bath also containing, in solution, not more than about 1.5% of at least one brightener selected from the group consisting of organic sulfonamides, sulfonimides, and sulfonic acids, and, in addition, about .003 to 0.15 gram per liter of a bath-soluble compound in accordance with the formula



where



represents a compound of the pyridine series selected from the group consisting of pyridine, quinoline, isoquinoline and C-methyl and ethyl homologues thereof, A is an anion of a water-soluble acid, R is an aliphatic radical containing from 1 to 4 carbon atoms, R′ is halogen selected from the group consisting of chlorine and bromine, and $x$ is zero to 2.

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**2,647,867**
**PROCESS FOR PRODUCTION OF CHOLESTERYL ESTERS BROMINATED IN POSITION 7**
**Hermann Schaltegger, Flamatt, Switzerland, assignor to Dr. A. Wander A. G., Bern, Switzerland**
**No Drawing. Application September 8, 1949, Serial No. 114,691. In Switzerland October 6, 1948**
**1 Claim. (Cl. 204—158)**

A process for the production of cholesteryl esters brominated in position 7, which comprises dissolving a cholesteryl ester in an inert solvent, reacting said ester with elementary bromine under ultraviolet irradiation, and separating 7 bromo compound thus obtained from said solvent.

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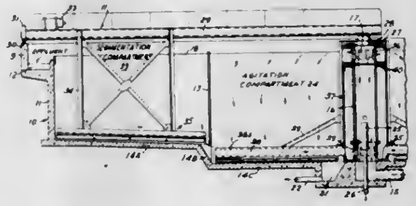
**2,647,868**
**COLOR REMOVAL FROM ESTERS**
**Fred Dean, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain**
**No Drawing. Application December 28, 1950, Serial No. 203,209. In Great Britain December 30, 1949**
**2 Claims. (Cl. 204—158)**

1. A process for removing undesired colouration from esters selected from the group consisting of the phthalates, ortho-phosphates and glutarates of alcohols having at least six carbon atoms and not more than nine carbon atoms in the molecule, said alcohols having been prepared by carbonylating olefines with carbon monoxide and hydrogen under elevated temperature and pressure in the presence of a cobalt catalyst and hydrogenating the carbonylation product, said esters displaying in a six-inch cell of a standard Lovibond colorimeter up to three units in the red, together with up to ten units in the yellow, which comprises exposing said esters as a thin layer having a thickness not in excess of five millimeters to transverse light containing a substantial proportion of a wave length approximately equal to 3650Å.

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**2,647,869**
**CLARIFICATION**
**Earl M. Kelly, Millbrae, Calif., assignor to Process Engineers Incorporated, a corporation of California**
**Application November 3, 1949, Serial No. 125,227**
**2 Claims. (Cl. 210—3)**

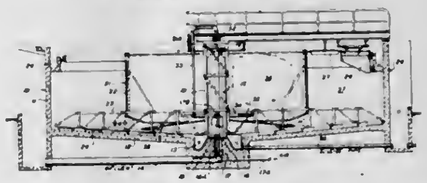
1. In a clarifier including a tank adapted to contain a pool of liquid to be clarified, a sediment discharge means in the bottom of the tank near its center, and a liquid discharge means at its upper periphery, the combination which comprises raking means extending just above the bottom of the tank and rotatable about a substantially central axis so as to rake sediment along the tank bottom into the discharge means, a relatively thick annular baffle in the tank with its center corresponding substantially to the axis of the raking means and extending from a level slightly above the tank bottom to a level above that of the pool of liquid in the tank and dividing the tank into an inner compartment and an outer annular compartment, a plurality of supports disposed between the baffle and the bottom for holding the baffle above the bottom, the supports being relatively narrow and spaced from each other so as to leave relatively wide, thick ports between them at the bottom and open about a large proportion of the periphery of the baffle so as to permit the passage under the



baffle of solids from the outer compartment to the inner compartment and the counter-current passage of liquid from the inner compartment to the outer compartment and the bottom being sloped steeply toward the inner compartment immediately underneath the baffle throughout its thickness so as to facilitate movement of the sediment from the outer compartment to the inner compartment and the raking means being made in two sections, one of which extends from the tank periphery to the baffle and rakes sediment from the bottom of the annular compartment to the ports, through which the sediment moves to the bottom of the inner compartment, and the second of which extends from the baffle to the sediment discharge means and rakes sediment, including that passing through the ports, over the bottom of the central compartment to the sediment discharge means, and means for introducing the liquid to be clarified into the inner compartment.

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**2,647,870**
**CLARIFICATION**
**Earl M. Kelly, Burlingame, and Arthur M. Kivari, Los Angeles, Calif., assignors to Process Engineers Incorporated, San Francisco, Calif., a corporation of California**
**Application May 22, 1951, Serial No. 227,682**
**4 Claims. (Cl. 210—3)**



1. In clarification apparatus comprising a tank for containing a pool of liquid to be clarified and in which suspended sludge settles, an annular

baffle in the tank with its lower edge disposed above the tank bottom and forming in the tank an outer quiescent zone and an inner zone with the two zones in communication under the baffle, a sludge outlet disposed in the tank in the portion of the tank bottom underlying the inner zone, and raking means for moving the settled sludge along the bottom of the tank from the outer quiescent zone and under the baffle to the sludge outlet, the combination which comprises a roof mounted above the raking means and extending substantially across the entire lower portion of the inner zone with its outer edge near the lower edge of the baffle, and agitating means disposed in the inner zone above the roof for admitting air into the liquid in the inner zone and causing it to circulate up and down between the lower portion of the zone overlying the roof and the upper portion of the zone.

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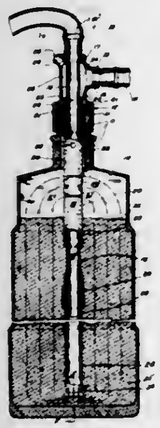
2,647,871

## WATER CONDITIONER

**Allen W. Frazier, Glen Ellen, Calif.**

**Application June 1, 1949, Serial No. 96,453**

**1 Claim. (Cl. 210—24)**



In an improved water conditioner of the portable type using a dispensible narrow necked transparent container partially filled with exchange mineral matter, a removable fixture frictionally sealed in the said container neck comprising a T like member with an internal chamber, a water inlet and an air check valve member communicating with said chamber, an exterior tube sealed in said T member at the lower side of said chamber, the lower end of said exterior tube extending downwardly into the said exchange mineral matter, ports located in said exterior tube communicating with the interior of said container and said T member chamber, an internal tube coaxially located in said external tube, the upper end of which is located through the top of said T member, said internal tube and external tube being provided with a passage way between said tubes, said passage way being open into the said chamber at the top of said external tube and closed at the bottom of said external tube, said internal tube extending down in said mineral exchange matter to a point adjacent the bottom of said container, the lowermost end of said internal tube being flattened and compressed together with vertical slots being formed therethrough to communicate with the interior of said internal tube.

2,647,872

## GREASE COMPOSITION

**Walter H. Peterson, Point Richmond, Calif., assignor to Shell Development Company, San Francisco, Calif., a Delaware corporation**

**No Drawing. Application January 27, 1950, Serial No. 140,973**

**11 Claims. (Cl. 252—28)**

9. A grease composition comprising a lubricating oil, 1–20% by weight of an originally hydrophilic inorganic gelling agent capable of forming a grease structure in said oil, 0.5–10% by weight of a hydroxy-containing hydrophobic surface-active compound of the groups consisting of hydroxy fatty acids, aliphatic alcohols having at least 8 carbon atoms per molecule, aliphatic esters of said acids and of said alcohols wherein each ester molecule contains at least 1 hydroxyl group, and mixtures of the same and 0.5–10% by weight of a substance of the group consisting of alkyl and alkenyl aliphatic dicarboxylic acids wherein the two carboxyl groups are separated by not more than 3 carbon atoms, and the anhydrides, half-amides and aliphatic esters of said acids, said substances bearing at least one hydrocarbon group having from 5 to 36 carbon atoms.

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2,647,873

## LUBRICATING COMPOSITIONS

**John Bryant Matthews and Thomas Bevan Grimshaw, Cheshire, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application May 17, 1949, Serial No. 93,847. In Great Britain July 7, 1948**

**7 Claims. (Cl. 252—42.7)**

3. A process for preparing an improved oil additive comprising condensing an alkyl phenol with an aliphatic aldehyde, said aldehyde having no more than four carbon atoms per molecule and simultaneously neutralizing said condensation product with an alkaline earth metal basic compound, and thereafter heat-treating said neutralized condensation product at a temperature of from 120° C. to 170° C. for a period of time between one-half and fifty hours.

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2,647,874

## AUTOMOTIVE COOLANT

**Ettore Da Fano, Raritan, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York**

**No Drawing. Application February 18, 1950, Serial No. 145,083. In Great Britain May 28, 1949**

**7 Claims. (Cl. 252—78)**

1. A composition suitable for use as an automotive coolant, consisting essentially of a mixture of isoalkyl orthosilicates, mononuclear hydrocarbon aryl orthosilicates and mixed mononuclear hydrocarbon aryl isoalkyl orthosilicates, in proportions such that the mixture has 12 to 15 isoalkyl radicals and 4 to 1 mononuclear hydrocarbon aryl radicals for each 4 silicate radicals, said isoalkyl radical having less than 6 carbon atoms.

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2,647,875

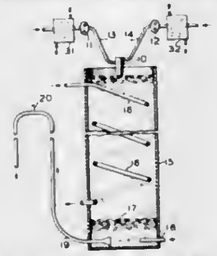
## PROCESS OF PREPARING AN INORGANIC OXIDE GEL

**Milton M. Marisic, Northfield, Ill., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**

**Original application May 11, 1944, Serial No. 535,102. Divided and this application March 29, 1947, Serial No. 738,174**

**2 Claims. (Cl. 252—448)**

1. A process for preparing spheroids of inorganic oxide hydrogel which comprises forming an inorganic oxide hydrosol capable of setting to a firm hydrogel, projecting said hydrosol horizontally by centrifugal force into the upper portion of a body of liquid immiscible with said hydrosol to thereby disperse said hydrosol as a plurality of globules in said liquid, which globules



assume spheroidal form by reason of surface tension against said liquid, and maintaining said globules dispersed in said liquid for a time sufficient to convert said globules of hydrosol into relatively firm hydrogel particles of spheroidal shape.

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2,647,876

## COPOLYMERS OF VINYL PHENOLS WITH DRYING OILS

**Edward Michael Evans, Tonbridge, and Stanley Erwin Bradshaw, Tunbridge Wells, England, and John Edward Seager Whitney, Penarth, Wales, assignors to British Resin Products Limited, London, England, a British company**

**No Drawing. Application January 10, 1950, Serial No. 137,891. In Great Britain January 15, 1949**

**11 Claims. (Cl. 260—23)**

4. A process for the production of a synthetic varnish resin which consists of copolymerising a vinyl compound selected from the group consisting of ortho, meta and para-vinyl phenol, their methyl, ethyl and propyl nuclear substituted homologues having at least one reactive hydrogen atom attached directly to the nucleus and a mixture of styrene with such phenol, with a drying oil selected from the group consisting of tung oil, dehydrated castor oil, oiticica oil and linseed oil in the absence of oxygen, and interrupting the copolymerisation prior to gelation and adding a volatile aromatic hydrocarbon solvent for the resin.

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2,647,877

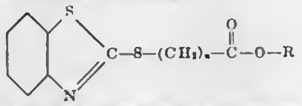
## RESINOUS COMPOSITION COMPRISING A VINYL CHLORIDE POLYMER AND A BENZOTHIAZYLMERCAPTOACETIC ACID ESTER AS A PLASTICIZER

**Joachim Dazzi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application January 14, 1952, Serial No. 267,319**

**4 Claims. (Cl. 260—30.2)**

1. A resinous composition of matter which is composed of a polymer of at least 70 percent vinyl chloride and up to 30 percent of another polymerizable monoethylenically unsaturated monomer compatible therewith, and a compound having the structural formula:



wherein $n$ is a whole number from one to two, inclusive, and R is a monovalent aliphatic radical of the group consisting of hydrocarbon, thiahydrocarbon and oxahydrocarbon radicals having a total of from four to twelve carbon, oxygen and sulfur atoms.

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2,647,878

## PROCESS OF PROMOTING POLYMERIZATION

**Max M. Lee, Washington, D. C.**

**No Drawing. Application June 15, 1950, Serial No. 168,373**

**10 Claims. (Cl. 260—45.4)**

10. In a method of polymerizing a composition comprising a liquid monomeric unsaturated compound in which the unsaturation is due to a single terminal ethylenic group which is attached to a negative radical and which unsaturated compound is polymerizable in the presence of a peroxy polymerization catalyst, said catalyst also being present, that improvement which consists in the step of adding a small but effective amount of a compound selected from the group consisting of 1,2,3,4-tetrahydroquinoline and the N-alkyl, N-hydroxyethyl, N-cyanoethyl, and 2,7-dimethyl substitution derivatives of 1,2,3,4 - tetrahydroquinoline to promote gelation of the composition.

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2,647,879

## IMPROVING THE FLEX RESISTANCE OF BUTADIENE-1,3 TYPE POLYMERS

**Robert L. Sibley, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application April 18, 1950, Serial No. 156,725**

**8 Claims. (Cl. 260—45.7)**

1. The method of retarding deterioration due to flexing of a rubber selected from the group consisting of India rubber, rubber-like homopolymers of butadiene-1,3 hydrocarbons, and rubber-like copolymers of butadiene-1,3 hydrocarbons and aryl olefins copolymerizable therewith of which the major portion is the butadiene-1,3 hydrocarbon, which comprises incorporating therein 0.1 to 5% on the rubber of an organic mercaptan having a mercapto group linked to a methylene group, said rubber-like polymers of and copolymers containing butadiene-1.3 hydrocarbons being prepared in an aqueous emulsion in the presence of an emulsifying agent, a polymerization catalyst and an organic sulfur compound modifying agent.

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2,647,880

## PRODUCTION OF SILICONE LACQUERS

**Siegfried Nitzsche, Burghausen, Upper Bavaria, Germany, assignor, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany**

**No Drawing. Application April 19, 1950, Serial No. 156,948. In Germany May 25, 1949**

**3 Claims. (Cl. 260—46.5)**

1. The process for producing solvent-soluble silicone resins from alkylsilicon halides which comprises reacting ethanol with an alkylsilicon halide containing at least two halogen atoms per silicon atom, in an amount insufficient to effect replacement of all of the halogen atoms of said silicon halide, whereby a part only of said halogen atoms are replaced by ethoxy radicals, then partially hydrolyzing the reaction product with water in the absence of a water immiscible solvent, adding a solvent for the reaction product, which solvent is immiscible with water, and then interacting the reaction product in the resulting solution with water in amount sufficient to com-

pletely hydrolyze all remaining halogen atoms and alkoxy radicals and in amount sufficient to form a separate water layer, and separating the water layer from the siloxane solution so produced.

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2,647,881

## THERMOSETTING ORGANOSILOXANE RESINOUS COMPOSITIONS AND METHODS OF CURING THEM WITH BETA-HYDROXYETHYLTRIMETHYL AMMONIUM BICARBONATE

**Harold A. Clark, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan**

**No Drawing. Application August 20, 1951, Serial No. 242,785**

**2 Claims. (Cl. 260—46.5)**

1. A thermosetting resinous composition comprising an organopolysiloxane having from 1 to 1.5 organic radicals per silicon atom, said radicals being selected from the group consisting of methyl and phenyl radicals, at least 50 per cent of said radicals being methyl, and beta-hydroxyethyltrimethylammoniumbicarbonate in amount of from .001 to .04 per cent by weight based upon the weight of the siloxane.

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2,647,882

## ETHERIFICATION OF VINYL PHENOL POLYMERS AND COPOLYMERS

**Edward Michael Evans and John Edward Seager Whitney, Tonbridge, England, assignors to British Resin Products Limited, London, England, a British company**

**No Drawing. Application November 16, 1949, Serial No. 127,784. In Great Britain November 24, 1948**

**8 Claims. (Cl. 260—47)**

5. A process as claimed in claim 7, wherein the polymeric material is also reacted with an aldehyde.

7. A process for the production of a resin which comprises, treating a polymeric material having in its molecular structure polymer units selected from the group consisting of ortho, meta and para vinyl phenol polymer units and their lower nuclear homologue polymers having at least one unsubstituted reactive nuclear hydrogen atom in the nucleus, with an etherifying agent selected from the group consisting of alkyl, alkenyl and aralkyl sulphates, chlorides, bromides and iodides.

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2,647,883

## COPOLYMERS OF VINYL PHENOLS WITH BUTADIENE COMPOUNDS

**Edward Michael Evans, Tonbridge, England, and John Edward Seager Whitney, Penarth, Wales, assignors to British Resin Products Limited, London, England, a British company**

**No Drawing. Application January 10, 1950, Serial No. 137,892. In Great Britain January 13, 1949**

**10 Claims. (Cl. 260—47)**

1. A process for the production of a synthetic resin which comprises polymerising in the presence of a catalyst a mixture of a vinyl phenol compound selected from the group consisting of meta- and para-vinyl phenols and lower alkyl-nuclear-substituted meta- and para-vinyl phenols, with a compound selected from the group consisting of butadiene, isoprene, dimethyl butadiene and chloroprene, said compounds of the mixture being the sole polymerisable compounds employed.

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2,647,884

## ISOCYANATES AND PRODUCTS PREPARED THEREFROM AND METHODS OF MAKING THE SAME

**Vernon P. Wystrach, Springdale, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application March 31, 1950, Serial No. 153,300**

**28 Claims. (Cl. 260—47)**

1. A chemical compound represented by the general formula RO—Ar—N=C=O wherein Ar represents a divalent aromatic hydrocarbon radical, R represents a monovalent, primary, ethylenically unsaturated, aliphatic radical having at least 3 and not more than 8 carbon atoms, and the —OR and —N=C=O groupings are each attached directly to the aromatic nucleus of the said divalent radical.

4. A composition comprising a product of polymerization of a polymerizable mass, said mass including a compound represented by the general formula RO—Ar—N=C=O wherein Ar represents a divalent aromatic hydrocarbon radical, R represents a monovalent, primary, ethylenically unsaturated, aliphatic radical having at least 3 and not more than 8 carbon atoms, and the —OR and —N=C=O groupings are each attached directly to the aromatic nucleus of the said divalent radical.

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2,647,885

## PRODUCTION OF POLYETHYLENE TEREPHTHALATE USING ANTIMONY TRIOXIDE AS POLYMERIZATION CATALYST

**Harry R. Billica, Seaford, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application September 28, 1951, Serial No. 248,890**

**3 Claims. (Cl. 260—75)**

1. In the process for producing filament- and film-forming polyethylene terephthalate wherein ethylene glycol is reacted under ester interchange conditions with an alkyl ester of terephthalic acid wherein the alkyl group contains from 1 to 4 carbon atoms, and the resulting glycol terephthalate is polymerized, the improvement which comprises carrying out the polymerization reaction in the presence of catalytic amounts of antimony trioxide.

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2,647,886

## WATER-SOLUBLE HETEROPOLYMERS FROM STYRENE, MALEIC ANHYDRIDE AND A CROSS-LINKING REACTANT

**Raymond B. Seymour, Allentown, Pa., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application May 15, 1951, Serial No. 226,533**

**10 Claims. (Cl. 260—78.5)**

1. The water-soluble alkali metal and ammonium salts of the heteropolymer of styrene and maleic anhydride, said styrene and maleic anhydride being combined in substantially equimolecular proportions, said hetropolymer having been formed by interpolymerization of said styrene and maleic anhydride in the presence of from 0.001 to 2.0 mole percent, based upon the moles of styrene and maleic anhydride of a compound possessing only ethylenic polymerizable unsaturation, and having at least 2 polymerizable double bonds, but not in excess of 3 polymerizable double bonds in the molecule, said double bonds being in non-conjugated relationship to each other and in the further presence of an inert organic solvent, the amount of solvent being at least 3 times the total weight of said styrene and maleic anhydride.



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2,647,887

## METHOD FOR THE STABILIZATION OF SULFUR DIOXIDE-RUBBERY POLYMER PRODUCTS

**Johan Michael Goppel, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application December 16, 1949, Serial No. 133,488. In the Netherlands December 29, 1948**

**3 Claims. (Cl. 260—79.3)**

1. A process for preparing insoluble reaction products of sulfur dioxide and hydroperoxide activated rubbery polymers which products have increased resistance to deterioration, which consists of adding from 0.1% to 2% by weight of a sulfur compound of the group consisting of free sulfur and sulfur-containing compounds which engender deposition of free sulfur, to a solution of a hydroperoxide activated soluble rubbery polymer of a compound of the group consisting of conjugated diolefins and chloroprene so as to form a mixture of the said sulfur compound and the rubbery polymer, and then contacting the resulting mixture with sulfur dioxide at a temperature not in excess of about —5° C. so as to form an insoluble reaction product.

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2,647,888

## PLASTIC TALL OIL ROSIN FRACTION

**Don E. Floyd, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware**

**No Drawing. Application November 19, 1949, Serial No. 128,500**

**6 Claims. (Cl. 260—97.5)**

1. A rosin composition comprising the rosin acid fraction of tall oil containing at least 60% rosin acid, the remainder being composed essentially of fatty acids and a small amount of unsaponifiable material esterified with a monomeric polyhydric alcohol having more than two hydroxyl groups, the esterified polyhydric alcohol having at least one hydroxyl group esterified by the rosin acid fraction, and at least one free hydroxyl group.

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2,647,889

## PREPARATION OF BARIUM SALTS OF PHOSPHORUS SULFIDE-HYDROCARBON REACTION PRODUCTS

**Roger W. Watson, Highland, Ind., and Clair R. Ditto, Alton, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana**

**No Drawing. Application December 16, 1950, Serial No. 201,252**

**8 Claims. (Cl. 260—139)**

1. In the preparation of a barium-containing neutralized reaction product of a phosphorus sulfide and a normally liquid hydrocarbon in which the hydrocarbon is reacted with from about 1% to about 50% of a phosphorus sulfide at a temperature of from about 200° F. to about 600° F., and neutralized, the improvement comprising neutralizing the phosphorus sulfide-hydrocarbon reaction product by reacting the unneutralized phosphorous sulfide-hydrocarbon reaction product with at least stoichiometric amounts of barium hydroxide while steaming the mixture at a temperature of from about 220° F. to about 300° F.

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2,647,890

## PROCESS FOR THE EXTRACTION OF PECTIN FROM SUGAR BEET WATERS

**Alfred E. Bishop, Dayton, Ohio, assignor to Superior Sugar Refining Company, Menominee, Mich., a corporation of Michigan**

**Application January 20, 1950, Serial No. 139,734**

**6 Claims. (Cl. 260—209.5)**

6. In the method of recovering pectin from beet sugar refinery waste water containing pectin by ion exchange treatment, the improvement which comprises the steps of (*a*) flowing the waste refinery water through a bed containing granular cation exchange phenol formaldehyde resin particles, (*b*) flowing the effluent from said cation exchange bed through a bed containing aromatic amine-formaldehyde resin particles for effecting an anion exchange, (*c*) washing said cation exchange bed and said anion exchange bed to recover a solution containing pectin, (*d*) precipitating the pectin from the combined washing solutions by the addition of alcohol thereto, and (*e*) separating the precipitated pectin from said combined solution.

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2,647,891

## VISCOSE RECOVERY

**Ryland Royster Warburton, Richmond, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application September 26, 1949, Serial No. 117,940**

**6 Claims. (Cl. 260—218)**

6. A process for converting viscose entrained in a filter press to a viscose capable of being employed in the production of shaped articles which comprises filtering viscose through a press containing about 30 filter cloths; forcing any unfiltered viscose through said press by forcing about 834 gal. of soft water at 12° C. through the said press; repeating said washing about 3 times to obtain thereby about 7076 lbs. of dilute filtered viscose solution; adding to said dilute solution about 974 lbs. of 24% caustic and about 2339 lbs. of cellulose xanthate to obtain thereby a concentrated viscose.

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2,647,892

## ANTIOFFSET POWDER AND PROCESS FOR PREPARING SAME

**Laurent J. La Brie, Rye, and James E. Fenn, Oceanside, N. Y., assignors to Oxy-Dry Sprayer Corporation, New York, N. Y., a corporation of New York**

**No Drawing. Application July 11, 1950, Serial No. 173,242**

**5 Claims. (Cl. 260—233.3)**

5. A process of preparing a starch product which comprises treating starch particles with

from about 0.03% to about 0.15% of a low viscosity thermosetting polymethylsiloxane resin dissolved in an inert, low-viscosity solvent containing a metallic salt catalyst amounting to about 1.4% to 3% by weight of said resin, distributing said resin solution on the starch particles, insolubilizing the resin by prolonged heating, distributing a non-caking agent selected from the group consisting of magnesium carbonate and tricalcium phosphate on said coated particles and bolting said coated, heat treated particles.

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2,647,893

## PENICILLIN SALTS OF METHYL-PENTYLAMINE

Vernon V. Young, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application February 3, 1950, Serial No. 142,355
4 Claims. (Cl. 260—239.1)

1. The penicillin salt of a compound selected from the group consisting of (1-methylpentyl)-amine, (2-methylpentyl) amine, and (1-methylisopentyl) amine.

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2,647,894

## 2-CHLOROPROCAINE SALT OF PENICILLIN O

Jared H. Ford, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 28, 1950, Serial No. 176,525
1 Claim. (Cl. 260—239.1)

The diethylaminoethyl 2-chloro-4-aminobenzoate salt of allylmercaptomethyl penicillin.

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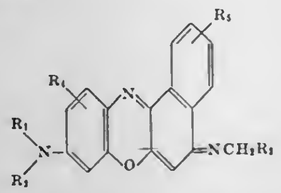
2,647,895

## 5-ARALKYLAMINO-9-DIALKYLAMINOBENZO[a]PHENOXAZINE COMPOUNDS AND METHOD OF PREPARING SAME

Moses L. Crossley, Plainfield, and Paul F. Dreisbach, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 4, 1950, Serial No. 194,182
6 Claims. (Cl. 260—244)

1. 5 - aralkylamino - 9 - dialkylamino benzo-[a]phenoxazine compounds selected from the group consisting of free bases having the following formula



where $R_1$ is an alkyl group having not less than 3 nor more than 6 carbon atoms, $R_2$ is an alkyl group having not less than 2 and not more than 5 carbon atoms, $R_3$ is selected from the group consisting of phenyl, halogen substituted phenyl, lower alkyl substituted phenyl, lower alkoxy substituted phenyl, and methylenedioxy substituted phenyl, $R_4$ and $R_5$ are selected from the group consisting of hydrogen and lower alkyl radicals and addition salts of the bases with acids.

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2,647,896

## SPIRO [CYCLOHEXANE-1,9'-FLUORENE] AMINES

Dale A. Stauffer and Otis E. Fancher, Elkhart, Ind., assignors to Miles Laboratories, Inc., Elkhart, Ind., a corporation of Indiana

No Drawing. Application April 11, 1952, Serial No. 281,902
6 Claims. (Cl. 260—247)

1. A compound of the class consisting of a free base and salts thereof, said free base having the formula



wherein $R^1$ is selected from the group consisting of H, lower alkyl, and chloro and hydroxy substituted lower alkyl, $R^2$ is selected from the group consisting of H and lower alkyl, and wherein $R^1$ and $R^2$ may be joined to form a six-membered saturated hetero monocyclic radical.

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2,647,897

## METHOD OF PRODUCING A CRYSTALLINE MIXTURE OF HEXAMETHYLENETETRAMINE THIOCYANIC ACID AND AMMONIUM SULPHATE

Edmund Weidner, Berlin, Germany

No Drawing. Application June 5, 1950, Serial No. 166,302. In Germany December 31, 1948
6 Claims. (Cl. 260—248.5)

1. A method of producing a crystalline mixture of hexamethylenetetramine thiocyanic acid and ammonium sulphate by the reaction of ammonium thiocyanate with hexamethylenetetramine in organic solvents which method is characterised in that the reaction is caused to take place in the presence of concentrated sulphuric acid.

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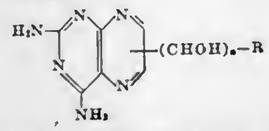
2,647,898

## ISOLATION OF 2,4-DIAMINOPTERIDINES

John A. Schmitt, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application July 22, 1950, Serial No. 175,480
4 Claims. (Cl. 260—251.5)

1. A method for the isolation of pteridines having the formula:



wherein $n$ is a member of the group of numbers consisting of zero and the positive integers one to three inclusive and R is a member of the group consisting of $—CH_2OH$ and $—COOH$ from reaction mixtures containing the same: comprising forming a boric acid complex of said pteridine by adding to the reaction mixture boric acid and sulfate ion and separating the pteridine boric acid complex from the reaction mixture.



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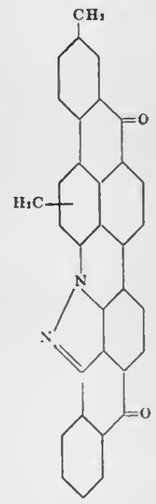
2,647,899

## METHYLATED PYRAZOLEANTHRONE-BENZANTHRONES

David I. Randall, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 8, 1949, Serial No. 80,313
1 Claim. (Cl. 260—275)

A compound of the following formula:



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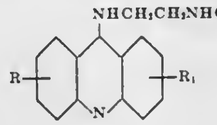
2,647,900

## 9-(2,3-DIHYDROXYPROPYLAMINOETHYL-AMINO)-ACRIDINES AND THEIR PREPARATION

Alexander R. Surrey and Robert K. Bair, Albany, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 5, 1951, Serial No. 245,252
14 Claims. (Cl. 260—279)

1. A 9 - (2,3 - dihydroxypropylaminoethylamino) acridine having the formula



where R is a member of the group consisting of hydrogen and a lower alkoxy radical and $R_1$ is a member of the group consisting of hydrogen and halogen.

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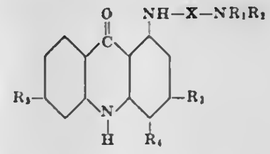
2,647,901

## 1-(TERTIARY-AMINOALKYLAMINO) ACRIDONES AND THEIR METHOD OF PREPARATION

Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 6, 1952, Serial No. 286,427
22 Claims. (Cl. 260—279)

1. An acridone having the structure



where X is a member of the group consisting of $CH_2CHOHCH_2$ and a lower alkylene radical having its two connecting linkages on different carbon atoms, $NR_1R_2$ is a member of the group consisting of lower dialkylamino, 1-piperidyl, (lower alkylated)-1-piperidyl, 1-pyrrolidyl, (lower alkylated)-1-pyrrolidyl and 4-morpholinyl, $R_3$, $R_4$ and $R_5$ are each members of the group consisting of hydrogen, lower alkyl radicals and halo radicals.

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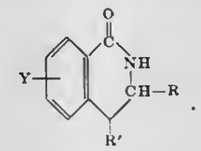
2,647,902

## METHOD FOR THE PREPARATION OF TETRAHYDROISOQUINOLONE DERIVATIVES

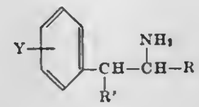
Thomas Carl Aschner, Philadelphia, Pa., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application February 16, 1951, Serial No. 211,424
3 Claims. (Cl. 260—289)

1. The method of preparing tetrahydroisoquinolone derivatives having the structure:



in which Y is a member of the group consisting of hydrogen, lower alkyl groups and lower alkoxy groups, R is a member of the group consisting of hydrogen, lower alkyl groups, a phenyl group and a benzyl group and R' is a member of the group consisting of hydrogen and lower alkyl groups, which comprises treating the reaction product of phosgene and a $\beta$-phenylethylamine of the structure:



in which Y, R and R' are given, with a Friedel-Crafts type catalyst at a temperature in the range of about 5° to 125° C.

**2,647,903**

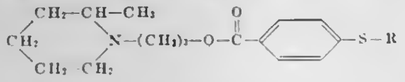
## SUBSTITUTED BENZOIC ACID ESTERS AND PROCESS FOR THEIR PREPARATION

**Thomas P. Carney, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana**

**No Drawing. Application September 19, 1951, Serial No. 247,367**

**6 Claims. (Cl. 260—293.4)**

1. A member of the group consisting of a base and acid addition salts thereof, said base being represented by the formula



wherein R is a member of the group consisting of cycloalkyl radicals having from 5 to 6 carbon atoms.

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**2,647,904**

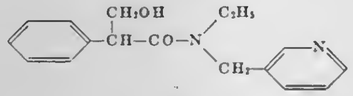
## DERIVATIVES OF TROPIC ACID AND PROCESS FOR THE MANUFACTURE THEREOF

**Gerald Rey-Bellet, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey**

**No Drawing. Application March 9, 1951, Serial No. 214,839. In Switzerland April 25, 1950**

**4 Claims. (Cl. 260—295)**

4. Tropic acid - N - ethyl - N - ($\beta$ - picolyl) - amide having the formula



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**2,647,905**

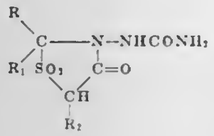
## PREPARATION OF 2 - SUBSTITUTED - 3-UREIDO-4-THIAZOLIDONES, 1-DIOXIDE DERIVATIVES THEREOF

**Alexander R. Surrey, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application September 5, 1951, Serial No. 245,251**

**13 Claims. (Cl. 260—301)**

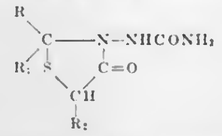
1. The process of preparing a compound having the formula



where R is a member of the group consisting of an aryl radical having 1-2 carbocyclic rings and a lower alkyl radical, $R_1$ is a member of the group consisting of hydrogen and a lower alkyl radical when R is lower alkyl, and $R_2$ is a member of the group consisting of hydrogen and a lower alkyl radical, which comprises the steps of (*a*) heating a semicarbazone of the formula

$$RR_1C{=}NNHCONH_2$$

with a lower 2-mercaptoalkanoic acid to yield a 4-thiazolidone having the formula



and (*b*) oxidizing said 4-thiazolidone.

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**2,647,906**

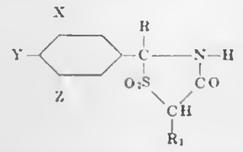
## 2-(HALO-PHENYL)-4-THIAZOLIDONE-1-DIOXIDES AND THEIR PREPARATION

**Alexander R. Surrey, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application July 5, 1952, Serial No. 297,413**

**16 Claims. (Cl. 260—301)**

1. A 2 - (halogenated-phenyl) -4-thiazolidone-1-dioxide having the structure



where X, Y and Z are each a member of the group consisting of hydrogen and halogen, at least one of X, Y and Z being halogen, and R and $R_1$ are each a member of the group consisting of hydrogen and a lower alkyl radical.

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**2,647,907**

## PREPARATION OF N-CARBOXYANHYDRIDES OF GLYCINE

**George A. Richardson, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application June 23, 1950, Serial No. 170,051**

**6 Claims. (Cl. 260—307)**

1 A method of preparing N-carboxyglycine anhydride, which comprises contacting glycine with hydrochloric acid gas while suspended in a medium of glacial acetic acid, contacting the mixture so obtained with phosgene until substantially all of the suspended matter is dissolved, and separating the resulting compound by crystallization.

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**2,647,908**

## TETRACYANO AND TETRACARBOXY PHTHALOCYANINES

**Saul R. Buc, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application February 11, 1950, Serial No. 143,835**

**7 Claims. (Cl. 260—314.5)**

1. As a new composition of matter, a copper phthalocyanine in which the hydrocarbon nuclei of the phthalocyanine nucleus are of the class consisting of benzene and naphthalene nuclei, each of said nuclei containing a nuclear substituent of the class consisting of cyano and carboxyl groups, and wherein 1 to 3 of said nuclei contain as a further nuclear substituent, monocylic aryl hydrocarbon radical.



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**2,647,909**

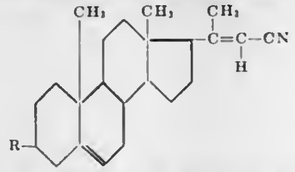
## PARTIAL SYNTHESIS OF PREGNENOLONE

**Frederick W. Heyl and Milton E. Herr, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**

**No Drawing. Application June 26, 1950, Serial No. 170,470**

**16 Claims. (Cl. 260—397.4)**

1. A compound having the formula:



wherein R is selected from the group consisting of hydroxyl, hydrocarbonoxy and acyloxy groups, said groups having the formulas R'O— and R'COO—, respectively, wherein R' is selected from the group consisting of hydrogen and hydrocarbon radicals containing up to seven carbon atoms, inclusive.

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**2,647,910**

## ORGANIC ANTIMONY DERIVATIVES OF POLYHYDROXY ALKANOIC OR ALKANEDIOIC ACIDS AND THEIR PREPARATION

**Sydney Archer and Robert K. Bair, Albany, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application March 10, 1951, Serial No. 215,014**

**14 Claims. (Cl. 260—446)**

1. An organic compound of antimony in which one of the antimony linkages is directly connected to a nuclear carbon atom of an aryl radical selected from the group consisting of the unsubstituted phenyl radical and phenyl radicals substituted by from one to three substituents selected from the class consisting of halo, lower alkyl, lower alkoxyl, lower carbalkoxyl, hydroxyl, nitro, carbamyl, amino, lower alkanoylamino, sulfamyl, N-2-thiazolylsulfamyl and N-2-pyrimidylsulfamyl, two of the antimony linkages are connected to alcoholate oxygen atoms of a salt of an acid selected from the group consisting of lower polyhydroxyalkanoic and lower poly-hydroxyalkanedioic acids having from three to seven carbon atoms and, where antimony is pentavalent, the remaining two antimony linkages are connected to a single oxygen atom.

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**2,647,911**

## PRODUCTION OF METHYLHYDROGEN-POLYSILOXANE

**Siegfried Nitzsche and Ewald Pirson, Burghausen, Oberbayern, Germany, assignors, by mesne assignments, to Wacker-Chemie G. m. b. H., Munich, Germany**

**No Drawing. Application June 21, 1951, Serial No. 232,873. In Germany June 24, 1950**

**5 Claims. (Cl. 260—448.2)**

1. The method for the preparation of organosiloxanes carrying silicon-bonded hydrogen comprising alkoxylating methyldichlorosilane with a monohydric aliphatic alcohol in amount insufficient to displace all of the chlorine atoms and hydrolyzing the reaction product by reacting it with water in amount sufficient to hydrolyze all of the chlorine atoms and alkoxyl radicals.

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**2,647,912**

## PRODUCTION OF DIMETHYL SILICON DICHLORIDE

**Arthur J. Barry and John W. Gilkey, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application July 19, 1947, Serial No. 762,204**

**7 Claims. (Cl. 260—448.2)**

1. The method for the production of dimethyl silicon dichloride which comprises interacting trimethyl silicon chloride and a composition of the group consisting of silicon tetrachloride, monomethyl silicon trichloride and trichloro silane and mixtures thereof at a temperature of at least 300° C., at a correlated temperature and pressure such that at least some condensed phase is present, and in the presence of a Friedel-Crafts type of catalyst.

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**2,647,913**

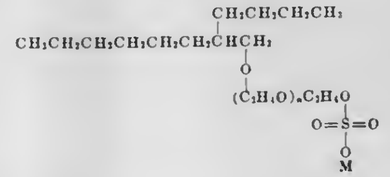
## HYDROXY ETHER SULFATES HAVING HIGH SURFACE-ACTIVITY

**Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application August 14, 1950, Serial No. 179,384**

**4 Claims. (Cl. 260—458)**

1. Compounds having the formula:



where *n* has a value of at least 2 but not in excess of 10, and M is a member of the class consisting of alkali metal and ammonium.

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**2,647,914**

## MANUFACTURE OF AN ALKYL NITRATE

**William G. Allan, Ardrossan, and Thomas J. Tobin, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**

**No Drawing. Application June 12, 1951, Serial No. 231,272. In Great Britain July 24, 1950**

**10 Claims. (Cl. 260—467)**

1. A process for the continuous production of isopropyl nitrate by the continuous distillation of a mixture of easily volatile products from a boiling reaction mixture formed from nitric acid and isopropyl alcohol and into which separate streams of nitric acid and isopropyl alcohol are introduced and in which a urea concentration effective to destroy nitrous acid is maintained characterised in that there is passed through said boiling reaction mixture undergoing continuous distillation a stream of a gas chemically indifferent to it.

**2,647,915**

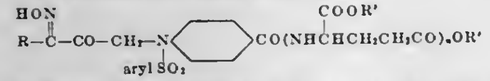
## N-(2-KETO-3-OXIMINOALKYL)-p-AMINOBENZOATE COMPOUNDS

**David I. Weisblat and Barney J. Magerlein, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**

**No Drawing. Application February 16, 1952, Serial No. 271,982**

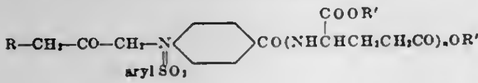
**8 Claims. (Cl. 260—470)**

1. A compound having the formula

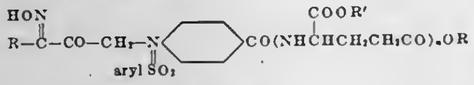


wherein R' is a member of the class consisting of hydrogen and the alkyl radicals, *n* is a member of the class consisting of zero and the positive integer 1 and R is a member of the class consisting of hydrogen and the alkyl radicals.

6. The method which comprises reacting a 2-ketoalkyl compound having the formula



wherein R' is from the group consisting of hydrogen and the alkyl radicals, *n* is from the group consisting of zero and the positive integer 1 and R is from the group consisting of hydrogen and the alkyl radicals with an alkyl nitrite to form a 2-keto-3-oximinoalkyl compound having the formula



**2,647,916**

## METHOD OF PREPARING AN N-SUBSTITUTED CARBAMATE

**Donald W. Kaiser, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application July 26, 1949, Serial No. 106,977**

**17 Claims. (Cl. 260—471)**

1. The method of preparing an N-substituted carbamate which comprises effecting simultaneous reaction, at a temperature within the range of about 100° C. to about 200° C., between (1) an alkali-metal cyanate, (2) a hydrocarbon halide represented by the formula RX, where X represents halogen and R represents a radical selected from the class consisting of alkyl, alkenyl, aralkyl and aralkenyl radicals and (3) an alcohol selected from the class consisting of normally liquid monohydric and dihydric non-aromatic alcohols, and isolating the N-substituted carbamate thereby produced from the resulting reaction mass.

**2,647,917**

## PROCESS OF PREPARING DIETHYL BENZOYLSUCCINATE

**Tracy M. Patrick, Jr., Dayton, and Earl W. Gluesenkamp, Centerville, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application June 23, 1950, Serial No. 170,048**

**1 Claim. (Cl. 260—475)**

The process of preparing diethyl benzoylsuccinate comprising the reaction of from about 2 to about 5 moles of benzaldehyde with one mole of diethyl maleate in the presence of the free radical promoting agent, benzoyl peroxide.

**2,647,918**

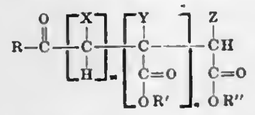
## SATURATED CARBOCYCLIC OXOESTERS AND PROCESS FOR THEIR PREPARATION

**Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application June 23, 1950, Serial No. 170,046**

**19 Claims. (Cl. 260—483)**

1. A compound having the formula



wherein X is selected from the group consisting of —H, —COOR''' and —$CH_2COOR^{iv}$; *m* is a small whole number from 0 to 1; Y and Z are selected from the group consisting of —H and —$CH_3$; *n* is a small whole number from 0 to 1; the sum of *m* plus *n* is a small whole number from 1 to 2; R is a saturated hydrocarbon radical containing up to about 17 carbon atoms; R'' and $R^{iv}$ are selected from the group consisting of —H and 3- to 20-carbon atom saturated hydrocarbon carbocyclic radicals; R'' is a 3- to 20-carbon atom saturated hydrocarbon carbocyclic radical; R' is selected from the group consisting of —H (when *m* equals 1) and a 3- to 20-carbon saturated hydrocarbon carbocyclic radical and at least one of said R', R'', R''' and $R^{iv}$ groups is a carbocyclic radical.

**2,647,919**

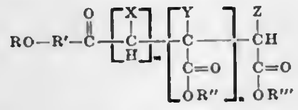
## OXY-OXOESTERS AND ACIDS AND PROCESS FOR THEIR PREPARATION

**Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application June 23, 1950, Serial No. 170,047**

**21 Claims. (Cl. 260—483)**

1. A compound having the formula



wherein X is selected from the group consisting of —H, —$COOR^{iv}$ and —$CH_2COOR^{v}$; *m* is a small whole number from 0 to 1; Y and Z are selected from the group consisting of —H and —$CH_3$; *n* is a small whole number from 0 to 1; the sum of *m* plus *n* is a small whole number from 1 to 2; R is a saturated hydrocarbon radical containing up to about 8 carbon atoms; R' is an alkylene radical containing up to about 8 carbon atoms; $R^{iv}$ is a saturated hydrocarbon radical containing up to about 20 carbon atoms; R'' is selected from the group consisting of a saturated hydrocarbon radical containing up to about 20 carbon atoms and —H, when *m* equals 1; and R''' and $R^{v}$ are selected from the group consisting of —H and saturated hydrocarbon radicals containing up to about 20 carbon atoms.



**2,647,920**

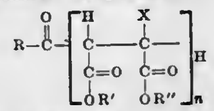
## TELOMERIC POLYALKYL OXOESTERS

**Tracy M. Patrick, Jr., Dayton, and Earl W. Gluesenkamp, Centerville, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application December 9, 1950, Serial No. 200,101**

**17 Claims. (Cl. 260—483)**

1. The telomeric composition



wherein R is a saturated hydrocarbon radical containing up to 17 carbon atoms, R' and R'' are alkyl radicals containing up to 18 carbon atoms, X is selected from the group consisting of —H and —$CH_3$, and *n* is an integer from 2 to 20.

**2,647,921**

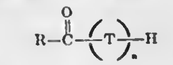
## TELOMERIC POLYCARBOCYCLIC OXOESTERS

**Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

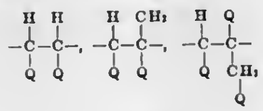
**No Drawing. Application December 9, 1950, Serial No. 200,102**

**9 Claims. (Cl. 260—483)**

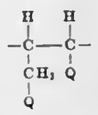
1. The telomeric composition



wherein R is a saturated hydrocarbon radical containing up to 17 carbon atoms, T is a divalent radical selected from the group consisting of



and



wherein Q is the radical —COOR' and R' is a saturated carbocyclic hydrocarbon radical, free from non-benzenoid unsaturation, containing up to 20 carbon atoms, and *n* is an integer from 2 to 20.

**2,647,922**

## PURIFICATION OF α-CHLOROACRYLIC ACID ESTERS

**William O. Ney, Jr., Somerset Center, Mass., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application January 15, 1951, Serial No. 206,117**

**7 Claims. (Cl. 260—486)**

1. A process for removing color-generating impurities from an ester of α-chloroacrylic acid, which comprises subjecting said ester to freezing temperature so as to form a mixture of liquid and solid, the latter amounting to 50 to 95% of the mixture, and separating the liquid fraction containing the color-generating impurities from the solid fraction of said ester.

**2,647,923**

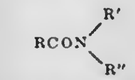
## METHOD FOR PREPARING ESTERS OF ALPHA,BETA-DICHLOROPROPIONIC ACID

**Charles D. Burton, Glenside, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware**

**No Drawing. Application March 15, 1952, Serial No. 276,875**

**14 Claims. (Cl. 260—487)**

2. A process for preparing esters of α,β-dichloropropionic acid and monohydric alcohols which comprises passing at a temperature between 20° C. and about 50° C. chlorine into a mixture of an ester of acrylic acid and a monohydric alcohol and of an N-substituted amide of the formula



wherein R is a member of the class consisting of hydrogen and aliphatic hydrocarbon groups of not over eight carbon atoms, and R' and R'' are members of the class consisting of hydrogen and hydrocarbon groups of not over 12 carbon atoms, at least one of the terms R' and R'' being a said hydrocarbon group.

**2,647,924**

## 3-HYDROXYPHENYL QUATERNARY AMMONIUM COMPOUNDS

**John Alfred Aeschlimann, Montclair, N. J., and Arthur Stempel, Brooklyn, N. Y., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey**

**No Drawing. Application March 30, 1950, Serial No. 152,998**

**5 Claims. (Cl. 260—501)**

1. (3-hydroxyphenyl)ethyl dimethylammonium bromide.

4. (3 - hydroxyphenyl)ethyl dimethylammonium p-toluenesulfonate.

**2,647,925**

## PROCESS FOR PREPARING MONOSULFONATED SATURATED ALIPHATIC DICARBOXYLIC ACIDS

**Everett E. Gilbert, Flushing, and Silvio L. Giolito, New York, N. Y., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York**

**No Drawing. Application April 10, 1951, Serial No. 220,362**

**13 Claims. (Cl. 260—513)**

1. A process for preparing monosulfonates of saturated aliphatic dicarboxylic acids having at least 4 carbon atoms, which comprises reacting in the liquid phase substantially equimolecular quantities of a dicarboxylic acid as defined above, and liquid sulfur trioxide in a trichloroacetic acid reaction medium at temperatures in the range between about 60° C. and the boiling point of trichloroacetic acid, namely 197.5° C.

**2,647,926**

## DIPHENYL-DIMETHYL-AMINOVALERAMIDE

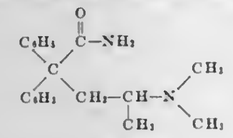
**Merrill Eugene Speeter, Kalamazoo, Mich., assignor to Bristol Laboratories Inc., Syracuse, N. Y., a corporation of New York**

**No Drawing. Application June 12, 1952, Serial No. 293,195**

**5 Claims. (Cl. 260—558)**

1. A new class of compounds consisting of the

free base and the non-toxic acid addition salts thereof, said free base having the formula



2,647,927
**NONCORROSIVE CHOLINE CHLORIDE COMPOSITION**
**Fred W. Schmitz, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland**
**No Drawing. Application May 26, 1951, Serial No. 228,529**
**7 Claims. (Cl. 260—567.6)**

1. A non-corrosive choline chloride composition consisting of aqueous choline chloride solution of a concentration of at least 50% choline chloride, and an inhibitor selected from the group consisting of tetraalkali metal pyrophosphates, alkali metal phytates, alkali metal hexametaphosphates, and alkali metal tripolyphosphates, the pH of said composition being adjusted to between 7.0 and 8.5.

2,647,928
**STABILIZED COMPOSITIONS OF HYDROXYPHENYLAMMONIUM HALIDES**
**Arthur Stempel, River Edge, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey**
**No Drawing. Application June 28, 1951, Serial No. 234,149**
**4 Claims. (Cl. 260—567.6)**

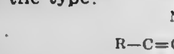
1. An aqueous solution of (3-hydroxyphenyl)-ethyl dimethylammonium halide stabilized against color formation by means of an alkali metal sulfite.

2,647,929
**SEPARATION OF THE DIASTEREOISOMERIC BIS[β - (ORTHO - METHOXYPHENYL)ISOPROPYL]AMINES**
**Richard V. Heinzelmann, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**
**No Drawing. Application April 26, 1951, Serial No. 223,147**
**6 Claims. (Cl. 260—570.8)**

1. A method for the separation of the diastereoisometric bis[β-(ortho-methoxyphenyl)isopropyl]amines comprising dissolving a mixture of diastereoisomeric amines in an alcohol and cooling the solution whereby a solid alcohol complex of one of the isomers is formed which precipitates, removing the solid alcohol-amine complex from the solution and isolating the other isomer from the solvent.

2,647,930
**CATALYTIC REDUCTION OF NITROOLEFINS**
**John B. Tindall, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland**
**No Drawing. Application May 11, 1949, Serial No. 92,732**
**11 Claims. (Cl. 260—590)**

1. In a process for the reduction of nitroolefins of the type:

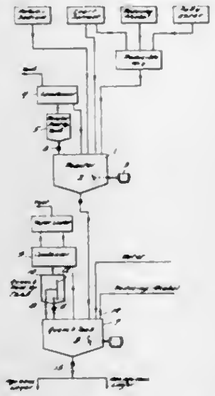


wherein R represents a member selected from the group consisting of alkyl and aryl, to produce a mixture of amines and ketones containing a predominant proportion of ketones, the improvement which comprises subjecting a mixture consisting of a nitroolefiin of the aforesaid type, an inert organic solvent, and an organic carboxylic acid having an ionization constant of between about $1.86\times10^{-5}$ and $1.1\times10^{-3}$, said acid being substantially completely ionized, to the action of molecular hydrogen in the presence of Raney nickel catalyst at elevated pressure.

2,647,931
**ALKYLATION OF PHENOLIC COMPOUNDS**
**Richard C. Wackher, La Grange, and Carl B. Linn, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application June 29, 1949, Serial No. 102,165**
**15 Claims. (Cl. 260—613)**

1. A process which comprises reacting a phenolic compound containing a substitutable hydrogen atom attached to the ring with a compound capable of yielding a hydrocarbon radical at condensation conditions in the presence of a catalyst comprising a solid oxygen-containing complex formed by heating oxygen, boron trifluoride, and a hydrocarbon at a temperature above about 150° C.

2,647,932
**PROCESS FOR THE REDUCTION OF FATTY ESTERS**
**Joseph Blinka, Wyoming, and Haskell J. Peddicord, Deer Park, Ohio, assignors to The Procter & Gamble Company, Ivorydale, Ohio, a corporation of Ohio**
**Application August 18, 1950, Serial No. 180,222**
**13 Claims. (Cl. 260—638)**



1. In the process of preparing fatty alcohols, from fatty esters in which the esters of fatty acids containing from 16 to 22 carbon atoms predominate, by reacting the fatty esters with alkali metal and a reducing alcohol containing at least 4 carbon atoms, both in amounts substantially chemically equivalent to that required for said reaction, in the presence of a solvent that is chemically inert in said reaction and in amount at least sufficient to maintain the reaction mixture in a fluid state, said reducing alcohol and inert solvent being soluble in the hereinafter mentioned non-aqueous phase and substantially insoluble in the hereinafter mentioned aqueous phase, and quenching the reacted mixture in water, wherein stable emulsions are ordinarily formed during the quenching operation, the combination of steps which comprises as step (1)—increasing the residual weight ratio of reducing alcohol to inert solvent in the quench mixture to a value which is greater than 1.7/1 and at which said emulsions are unstable, said step 1 including removing and withholding inert solvent from the quench mixture, and step (2)—separating the aqueous phase in the quench mixture from the non-aqueous phase.



2,647,933
**MAKING OF $R_fBr$ FROM $R_fCOOH$**
**James D. La Zerte, St. Paul, Wilbur H. Pearlson, Bald Eagle, White Bear Township, Ramsey County, and Edward A. Kauck, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware**
**No Drawing. Application February 19, 1951, Serial No. 211,792**
**7 Claims. (Cl. 260—653)**

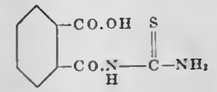
1. The method of prooucing perfluorocarbon bromides which comprises reacting bromine with a compound from the group consisting of perfluorocarbon acids and their anhydrides.

2,647,934
**PROCESS FOR DEHALOGENATION OF ORGANIC COMPOUNDS**
**John C. Hillyer, Bartlesville, and Clark H. Ice, Norman, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware**
**No Drawing. Application May 7, 1951, Serial No. 225,048**
**14 Claims. (Cl. 260—677)**

1. A dehalogenation process which comprises reacting a reagent comprised of a formate selected from the group consisting of the alkali metal formates and ammonium formate, an alcohol, a ketone and an iodide selected from the group consisting of the alkali metal iodides and ammonium iodide at the temperature of the refluxing reaction mixture with an organic compound selected from the group consisting of (A) a polyhalogenated paraffinic compound having at least two adjacent carbon atoms to each of which is attached a single halogen atom and having the general formula $C_nH_{(2n+2-a)}X_a$ in which X is a halogen selected from the group consisting of chlorine, bromine and iodine, $n$ is at least two and not greater than twenty, and $a$ is at least two and not greater than $n$; (B) a polyhalogenated olefinic compound having no more than one halogen atom on any single carbon atom and having the general formula $C_nH_{(2n-a)}X_a$ in which X is a halogen selected from the group consisting of bromine and iodine, $n$ is at least two and not greater than twenty, and $a$ is at least two and not greater than $n$; (C) a polyhalogenated cycloparaffinic compound having single halogen atoms attached to at least two adjacent carbon atoms and having the general formula $C_nH_{(2n-a)}X_a$ in which X is a halogen selected from the group consisting of chlorine, bromine and iodine, $n$ is at least three and not greater than eight, and $a$ is at least two and not greater than $n$; and (D) a polyhalogenated cycloolefinic compond having no more than one halogen atom on any single carbon atom and having the general formula $C_nH_{(2n-2-a)}X_a$ in which X is a halogen selected from the group consisting of bromine and iodine, $n$ is at least three and not greater than eight, and $a$ is at least two and not greater than $n$.

2,647,935
**METHOD OF VULCANIZING RUBBER AND PRODUCTS THEREOF**
**David J. Beaver, Richmond Heights, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Original application January 17, 1949, Serial No. 71,390, now Patent No. 2,582,670, dated January 15, 1952. Divided and this application November 14, 1951, Serial No. 256,360**
**6 Claims. (Cl. 260—788)**

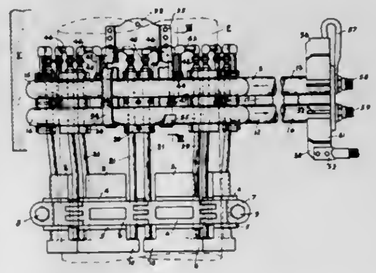
6. The vulcanized rubber product obtained by heating a rubber and sulfur in the presence of a thiazole accelerator and a compound of the structure



# ELECTRICAL

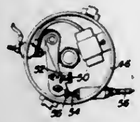
2,647,936
**ELECTRODE CLAMP**
**William Enoch Moore, Pittsburgh, Pa., assignor to Delaware Engineering Corporation, Pittsburgh, Pa., a corporation of Delaware**
**Application April 12, 1949, Serial No. 86,989**
**5 Claims. (Cl. 13—16)**

5. For use in an adjustable electrode clamp for an electrode in an electric arc furnace including a plurality of electrically conductive shoes arranged in spaced circumferential relation around the electrode, a plurality of flexible connector pipes connected at the lower ends to said shoes for conducting electric power and water to the shoes and for suspending said shoes from two water and power conducting bus pipes embracing the electrode at a distance above the shoes, the invention which comprises a contact block in fixed electrical contact with the bus pipes, and a clamp plate mounted in operative clamping position with respect to said block, the block and plate being disposed to clamp the upper ends of the connector pipes between them to thereby provide an electrical connection through



said contact block for said connector pipes with said bus pipes.

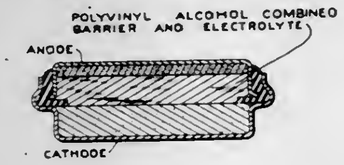
**2,647,937**
## IGNITION LOCK FOR ENGINES
**Gottlieb W. Baumann, Fort Madison, Iowa, assignor to Carl L. Evans, Oskaloosa, Iowa**
**Application November 7, 1950, Serial No. 194,450**
**2 Claims. (Cl. 123—148.5)**



1. In combination with an internal combustion engine including a distributor having a pair of contact points movable toward and away from each other, an ignition coil in circuit with said contact points, a rotary ignition switch between said coil and a source of electric current, a lock comprising an armor covered flexible drive shaft extending into said distributor, a wedge-shaped insulator secured to said shaft and swingable from a neutral position to a position wherein it separates and electrically isolates said contact points, and means operatively connecting said drive shaft to said rotary ignition switch, whereby said insulator may be interposed between said contact points when the ignition switch is rotated to its open position.

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**2,647,938**
## COMBINED ELECTROLYTIC BARRIER AND ELECTROLYTE
**Walter H. Taylor, Williamstown, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts**
**Application October 22, 1949, Serial No. 123,090**
**5 Claims. (Cl. 136—107)**

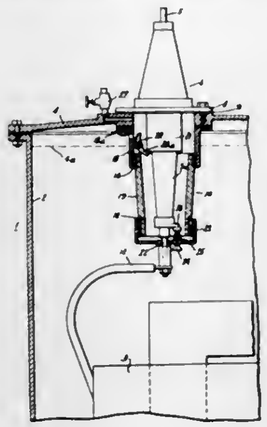



1. An alkaline primary cell consisting of an anode, a cathode, a polyvinyl alcohol combined gelled electrolyte and barrier comprising water, an alkaline electrolyte compound, and polyvinyl alcohol, and appropriate retaining structure for said elements.

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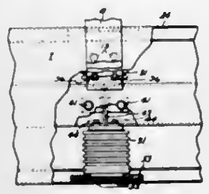
**2,647,939**
## BUSHING POCKET WITH OIL PORTS
**Konstantin K. Paluev, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York**
**Application February 3, 1951, Serial No. 209,278**
**1 Claim. (Cl. 174—18)**

In a container for high voltage electrical apparatus having a removable terminal bushing with one end thereof projecting into said housing and a bushing pocket within said container for enclosing the portion of said removable terminal bushing projecting into said container, said bushing pocket having a terminal portion on the innermost end thereof for connecting the apparatus to said removable terminal, said electrical apparatus being immersed in insulating oil having a gas cushion provided at the top thereof for allowing thermal expansion of said oil, the improvement in said bushing pocket comprising the provision of a first port adjacent the innermost end of said bushing pocket and a second port adjacent the opposite end thereof and above the normal insulating oil level in said container for maintaining the insulating oil level in said bushing pocket equal to the level in the rest of said container, a valve associated with each of said ports and being spring-biased to the closed position, said valves having means associated therewith engaging said removable terminal bushing for opening said valves in response to tde insertion of said removable terminal into said bushing pocket.



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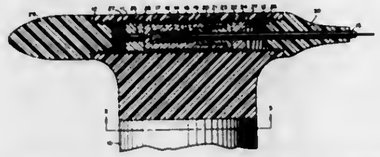
**2,647,940**
## METAL ENCLOSED BUS WITH ADJUSTABLE BUS CLAMPING MEANS
**Nathan Swerdlow, Philadelphia, and George G. Abel, Media, Pa., assignors to General Electric Company, a corporation of New York**
**Application August 31, 1948, Serial No. 47,128**
**9 Claims. (Cl. 174—99)**



2. In combination, an elongated enclosing sheath, a pair of insulators secured within said sheath and disposed in spaced relationship, support means interposed between opposed surfaces of said insulators and secured thereto, a pair of elongated conducting members arranged in spaced substantially parallel relationship to each other and transversely disposed with respect to said insulators and with said support means interposed between said conducting members, and clamping means attached to opposed surfaces of said conducting members and engageable with said support means to secure said conducting members in position within said sheath.



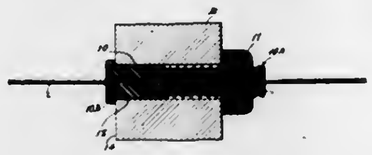
**2,647,941**
## ANTENNA MAST
**William U. Matson, Takoma Park, and William K. Barrett, West Beach, Md., assignors to Dayton Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio**
**Application December 14, 1949, Serial No. 132,964**
**4 Claims. (Cl. 174—145)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In an antenna mast assembly for adjustably holding an end of an insulated antenna wire, an elongated mast head portion having a longitudinal bore therein, dielectric insert means disposed within said bore and having a wire receiving recess therein, wire holding means disposed within said insert means and in communication with said recess, sealing means disposed within said recess whereby a seal is provided between the insulation of an inserted antenna wire and the dielectric wire and the dielectric insert, and positioning means apertured to receive an antenna wire and insertable in said bore adjacent said insert means to bear against said insert means and position it in any of a range of longitudinal positions within said bore.

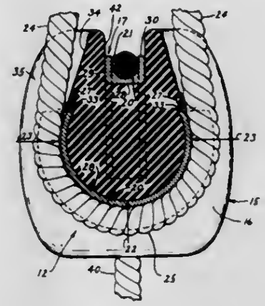
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**2,647,942**
## LEADIN BUSHING
**Leland A. Borden, Riverside, and John C. Powelson, Cucamonga, Calif.**
**Application December 10, 1948, Serial No. 64,634**
**2 Claims. (Cl. 174—153)**



1 In a leadin bushing adapted to lead an antenna leadin through building walls of widely varying thicknesses, the combination of: a longitudinally slit cylindrical tubular member adapted to be inserted through an aperture in a building wall, said tubular member having a flange at one of its ends adapted to engage one side of said wall and having a threaded portion at the other one of its ends upon which a nut is placed to engage the other side of said wall, said threaded portion comprising a buttress thread of uniform pitch diameter and having the inclined nut engaging portions of said thread extending outwardly and inclined in the direction of the nut receiving end of said threaded portion, said nut having a buttress thread of uniform pitch diameter cooperating with the buttress thread on said threaded portion to cam opposed parts of said tubular member radially inwardly to clamp a portion of the antenna leadin disposed therebetween automatically when and only when said nut is rotated in contact with said other side of said wall.

**2,647,943**
## ELECTRICAL INSULATOR
**Herman Kreisler, New York, N. Y.**
**Application February 21, 1951, Serial No. 212,185**
**2 Claims. (Cl. 174—207)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



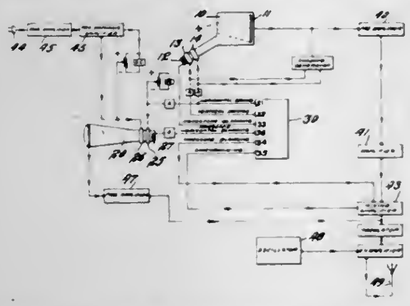
1. An electrical insulator, said insulator comprising a block, said block being formed with an arcuate groove, the groove in transverse section being of rectangular shape to provide a bottom and side walls perpendicular to the bottom, transverse riser faces in the bottom of the groove, said riser faces being arcuately spaced more than 180 degrees, an insert permanently nested in the groove between the riser faces, said insert being of arcuate shape to conform with the groove, said insert having a bottom contoured for contact throughout its entire surface with the groove bottom, said insert having perpendicular side walls contoured for contact throughout their entire surfaces with the groove walls, the ends of said insert being arcuately spaced more than 180 degrees whereby said insert is permanently retained in assembled position in the groove, the arcuate span of the groove between said riser faces being slightly greater than the arcuate span of said insert whereby the ends of said insert are normally spaced slightly from said groove riser faces, said insert being formed throughout its arcuate span with a trough in the exposed surface of the insert, said trough in transverse section being U-shaped, said insert being of heavy construction with the thickness at the bottom and each side being about one-fourth the width of the trough.

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**2,647,944**
## SINGLE CARRIER TRANSMISSION OF SOUND AND VIDEO SIGNALS
**James E. Robinson, Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application November 26, 1946, Serial No. 712,264**
**3 Claims. (Cl. 178—5.6)**

1. In a television system, means for transmitting television signals, means for receiving said signals, a first cathode ray tube at said transmitting means for translating light waves into video signal electrical waves, the output of said first tube being connected to modulate the signals in said transmitting means, a second cathode ray tube at said transmitting means having a target therewithin comprising a wedge-shaped area to be scanned by the electron stream of said tube, said wedge-shaped area having a response to said electron stream differing from the response of the remaining area of the target, means connecting the output of said second tube to modulate the signals of said transmitting means, a third

cathode ray tube having a picture-reproducing screen and being connected to said receiving means to vary the electron stream intensity in accordance with the received said signals, said third tube having a metallic strip extending vertically adjacent the edge of the picture-reproducing screen thereof, and positioned to intercept all the horizontal scanning lines of said tube at the end of each thereof, means for synchronizing the horizontal scanning of the three said tubes, means for synchronizing the vertical scanning of the first said tube and the third said tube, means



connected to said second tube and to a source of audio signals of said transmitting means for scanning vertically the said wedge-shaped area in accordance with said audio signals thereby modulating the signal of said transmitting means with electrical pulses varying in width, means for synchronizing the horizontal scanning of the wedge-shaped area of said second tube to occur simultaneously with the end of each horizontal scanning line of the first and third said tubes, the said vertical strip in said third tube thereby receiving thereon the electron stream varied in intensity in accordance with said pulses modulated in width.

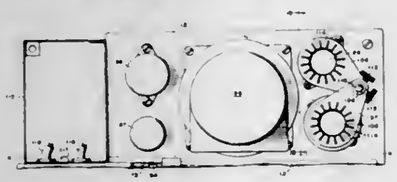
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**2,647,945**

**FACSIMILE MACHINE AND SYSTEM EMPLOYING ELECTRIC STYLUS TRANSMISSION AND RECORDING**

**Garvice H. Ridings, Summit, N. J., John H. Hackenberg, Flushing, and George B. Worthen, New York, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York**

**Application November 16, 1948, Serial No. 60,334**
**14 Claims. (Cl. 178—6.6)**



1. A facsimile system comprising a transmitter and a recorder adapted to be operatively connected, said transmitter having a rotary scanning drum and an electric stylus for scanning a message sheet on said drum, a keying tube at the transmitter, a commutator operated synchronously with said drum, said commutator comprising an insulated metal ring provided with an insulated metal segment which is grounded, a pair of spaced brushes arranged to engage said ring and segment, one of said brushes being connected to the stylus and the other brush being connected to the control grid of said keying tube, means for sending a phasing signal of definite duration through said tube when the first brush is on the insulated ring and the other brush is on the grounded segment, circuit connections including said control grid and commutator ring for causing said tube to pass facsimile signals only when the stylus scans a mark on the message sheet, and apparatus at the recorder automatically energized in response to the cessation of a received phasing signal to place the recorder in operative condition for recording the facsimile signals.

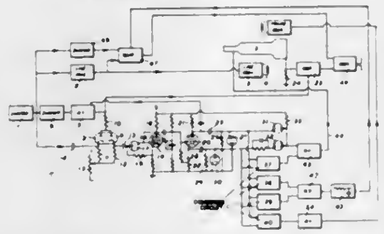
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**2,647,946**

**PULSE GENERATING APPARATUS**

**Eric Lawrence Casling White, Richings Way, Iver, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain**

**Application June 29, 1949, Serial No. 102,130**
**In Great Britain July 1, 1948**
**8 Claims. (Cl. 178—7.5)**



1. Electrical pulse generating apparatus for generating, under the control of periodic master pulses, periodic pulses of a frequency lower than that of said master pulses, comprising means for dividing the frequency of said master pulses to generate keying pulses of said lower frequency, a normally inoperative step-waveform generator responsive, when operative, to said master pulses for generating a multistepped waveform having potential increments initiated by said master pulses, means for applying said keying pulses to render said waveform generator operative at intervals recurring at said lower frequency, and a pulse generator responsive to said stepped waveform to generate output pulses of said lower frequency timed by steps in said stepped waveform.

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**2,647,947**

**HIGH-FREQUENCY COUPLING DEVICE**

**Reginald L. Downey, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York**

**Application November 16, 1948, Serial No. 60,360**
**8 Claims. (Cl. 333—82)**

1. A tuned high frequency coupling device comprising, a resonant transmission line, slidable means short-circuiting one end of said line to determine the frequency of resonance of said line, a coupling loop inductively coupled to said line for transferring energy from said line, said loop having a longitudinal axis parallel to said line and comprising a pair of parallel spaced conductors balanced with respect to a fixed reference potential, said loop being located in close proximity to said line near said one end, rotatable means for rotating said loop about its axis, thereby to vary the angular disposition of said loop with respect to said line and hence vary the degree of



inductive coupling therewith, and mechanical uni-control means for interlinking, at a predeter-



mined rate, the linear movement of said slidable means with the angular movement of said rotatable means.

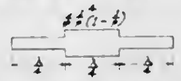
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**2,647,948**

**ELECTROMECHANICAL FILTER**

**Walter van B. Roberts and Leslie L. Burns, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware**

**Application March 30, 1949, Serial No. 84,372**
**12 Claims. (Cl. 333—71)**



1. A mechanical filter section, comprising a pair of spaced resonant elements joined by a coupling element, each of said elements being adapted to transmit mechanical vibrations, said coupling element having a length of substantially an odd multiple of a quater-wavelength therein at the frequency of operation of said filter section and having a mechanical impedance different from that of said resonant elements and said resonant elements each having a length of substantially an odd multiple of a quarter-wavelength therein at said frequency.

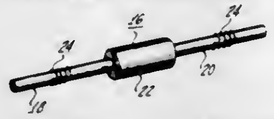
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**2,647,949**

**ADJUSTABLE TUNING FOR MECHANICAL RESONATORS**

**Leslie Lewis Burns, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application October 27, 1949, Serial No. 123,913**
**4 Claims. (Cl. 333—71)**



3. The combination of an electro-mechanical resonator in the form of a rod, and a spring tightly fitting around a portion of the surface of said resonator and opposing vibratory motion thereof, said spring being movable along said resonator to provide an adjustable loading therefor.

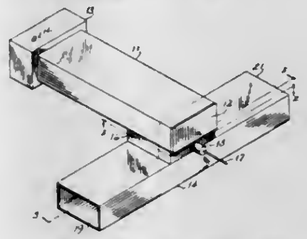


**2,647,950**

**MICROWAVE PHASE SHIFTER**

**John F. Zaleski, Valhalla, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York**

**Application December 29, 1951, Serial No. 264,094**
**6 Claims. (Cl. 333—9)**



1. A microwave phase shifter comprising, first and second rectangular wave guide sections positioned in overlapped relation with their broad faces in parallel planes and their axes in planes normal to each other to form a T junction, a communicating aperture in adjacent broad faces of said wave guide sections forming an energy transmission path therebetween, said aperture having a length in a direction transverse to said second wave guide section such that the full length thereof will transmit microwave energy while substantially less than the full length thereof will prevent the transmission of such energy in any mode, a reflective termination for one end of said first wave guide section, and conductive means selectively positioned to interdict one half or the other half of the width of said aperture by dividing said one-half or the other half width into two portions, the lengths of each of which are insufficient to support the transmission of microwave energy.

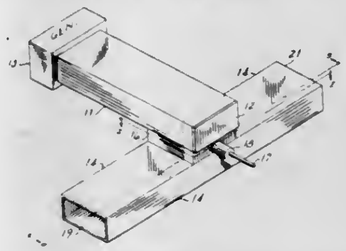
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**2,647,951**

**MICROWAVE POWER DIVIDER AND SWITCH**

**John F. Zaleski, Valhalla, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York**

**Application December 29, 1951, Serial No. 264,095**
**6 Claims. (Cl. 333—7)**



2. A device of the class described comprising, a first rectangular hollow guide having an input terminal at one end adapted to be connected to a source of microwave energy, a second similar wave guide having its broad sides parallel to the broad sides of said first wave guide and having two arms containing ends adapted for use as output terminals, said second wave guide being connected intermediate said two ends in overlapped relation to said first wave guide to form a T junction, means defining a rectangular aperture in the overlapped areas joining the

interior spaces of said first and second wave guides, said aperture having a length in a direction transverse to said second wave guide such that the full length thereof will transmit applied microwave energy while substantially less than the full length thereof will prevent the transmission or such energy in any mode, a transverse metal plate terminating the other end of said first wave guide parallel to the center plane of said aperture and at a distance therefrom approximately equal to an odd quarter of the wavelength of said energy in the guide, a rotatable conductive shaft parallel to said first wave guide and dividing said aperture into two equal windows, a pair of equal length conductive rods secured normally to said shaft and to each other and lying in said center plane, means for rotating said shaft into one position to extend one said rod into one of said windows and the other said rod into the interior space of said two arms, and into one other position to extend the other said rod into the other of said windows and the one said rod into the interior space of said two arms, thereby controlling the admittance of said windows and said arms to microwave energy.

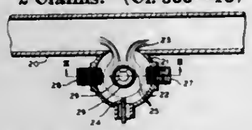
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**2,647,952**

## HIGH POWER TRANSMIT-RECEIVE BOX

**Louis D. Smullin, Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application August 2, 1945, Serial No. 608,593**
**2 Claims. (Cl. 333—13)**



1. A tunable transmit-receive box comprising two parallel plane electrically conductive walls joined to a cylindrical electrically conductive wall, said walls encosing a resonant cavity, means at said cyindrical wall for introducing electromagnetic energy into said cavity, additional means at said cylindrical wall diametrically opposite said introducing means for extracting said electromagnetic energy, and a pair of electrically conductive plugs adjustably mounted in said cylindrical wall and extending into said cavity, one member of said pair being disposed diametrically opposite the other member of said pair, a line extending diametrically through said pair of plugs being transverse to a line extending diametrically through said introducing and extracting means, each of said plugs being equal in diameter to the spacing between said parallel walls and being in electrical contact with said parallel walls irrespective of the depth to which it is inserted into said cavity.

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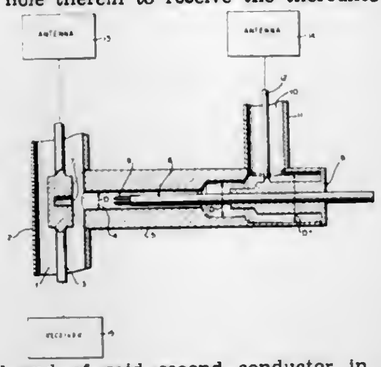
**2,647,953**

## POWER DIVIDER

**Delman E. Rowe, Washington, D. C., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application September 18, 1945, Serial No. 617,149**
**2 Claims. (Cl. 333—7)**

1. A combined power divider, attenuator and switch for use in transmission lines comprising, a first coaxial line having first inner and outer conductors and two open ends, a second coaxial line of relatively smaller inner diameter than said first line having second inner and outer conductors, and one open and one closed end, means for connecting said open end of said second line to said first line through a side thereof between said two open ends, said second inner conductor being axially slidably mounted in said second line and adapted to make slidable electrical contact with said first inner conductor, said first inner conductor having a substantially transverse hole therein to receive the thereunto di-



rected end of said second conductor in said slidable electrical contact, said second line becoming a wave guide operated beyond its cut off frequency at normal operative frequencies when said second inner conductor is retracted from said first inner conductor, a third coaxial line having third inner and outer conductors and two open ends, and means for connecting one end of said third line to said second line through a side thereof near said closed end.

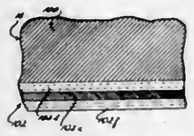
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**2,647,954**

## METHOD OF MAGNETICALLY RECORDING AND MECHANISM THEREFOR

**Hugh A. Howell, Berwyn, Ill., assignor to The Indiana Steel Products Company, Valparaiso, Ind., a corporation of Indiana**

**Application March 23, 1950, Serial No. 151,514**
**4 Claims. (Cl. 179—100.2)**



4. A lengthy magnetizable record medium for use in magnetic recorders and the like comprising a base portion of magnetically inert material, a layer of magnetizable material on said base portion, a layer of magnetically inert material coated on said layer of magnetizable material, and a second layer of magnetizable material having different magnetic characteristics from said first magnetic material coated on said layer of inert material.

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**2,647,955**

## HEARING AID ASSEMBLY ADAPTED FOR HEAD WEAR

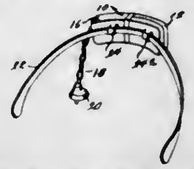
**Josephine C. Stalcup, Rogers, Ark.**

**Application August 5, 1949, Serial No. 108,839**
**4 Claims. (Cl. 179—107)**

1. An electric hearing aid comprising, in combination with a receiver, a support in the form of casing means for battery and transmitter, said casing means including a concave supporting surface to snugly fit the head of a wearer, arcuately



disposed mounting means connected to said casing means and extending outwardly therefrom to engage the head of the wearer, a transmitter cord projecting from said casing means in substantial conformity with the contour of the head of the wearer when the hearing aid is positioned on the head of the wearer and generally follow-



ing an arcuate path similar to the concave supporting surface of said casing means, and electrically connected with said receiver whereby a minimum length of cord is required and with the major portion thereof disposed within the distance between the ends of said mounting means and above the neck of the wearer so as to reduce static normally occasioned by clothing moving over such cord.

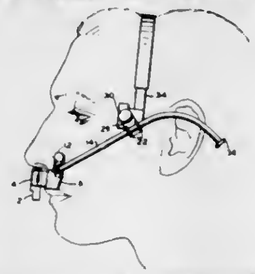
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**2,647,956**

## FLEXIBLE MICROPHONE SUSPENSION

**Edwin B. Newman and John Volkmann, Cambridge, Mass., assignors to the United States of America as represented by the Office of Scientific Research and Development**

**Application June 28, 1945, Serial No. 601,954**
**4 Claims. (Cl. 179—156)**



1. A suspension for a noise cancelling microphone comprising a frame adapted to receive therein a noise cancelling microphone, said frame presenting upright portions arranged to rest against the face at each side of the nose, flexible cords of circular cross section attached to said upright portions, said cords being secured in an angular position with respect to the plane of said upright portions, clips slidably secured to said cords, a headband, and snap fasteners for connecting said clips to said headband.

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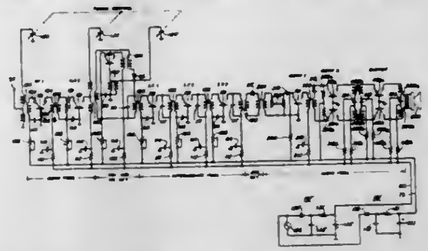
**2,647,957**

## TRANSISTOR CIRCUIT

**Charles O. Mallinckrodt, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application June 1, 1949, Serial No. 96,577**
**4 Claims. (Cl. 179—171)**

3. In a signal translating circuit which employs as its active element a transistor having a semicohductive body, an emitter electrode, a base electrode and a collector electrode engaging said body, input terminals connected to two of said electrodes and output terminals connected to one of said two electrodes and to the third of said electrodes, means for rendering the operation of said circuit substantially independent of peculiarities of the individual transistor employed which comprises a resistor and a source of steady potential connected in series with the emitter electrode, the potential of the source



being many times greater than the greatest optimum emitter-to-base operating potential difference normally found in transistors, whereby said emitter electrode is supplied with a substantially constant current bias.

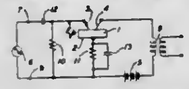
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**2,647,958**

## VOLTAGE AND CURRENT BIAS OF TRANSISTORS

**Harold L. Barney, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application October 25, 1949, Serial No. 123,507**
**22 Claims. (Cl. 179—171)**



17. Signal translating apparatus which comprises a transistor having an emitter electrode, a collector electrode and a base electrode, a source of electric energy, connections for applying the potential of said source as an operating voltage bias to the collector, means for deriving a substantially constant current from said source, and means for supplying said substantially constant current to the emitter electrode.

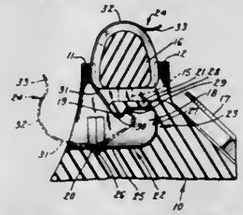
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**2,647,959**

## TELEPHONE HANDSET LOCKING CLIP

**Robert F. Mahoney, Milford, Conn.**

**Application March 14, 1950, Serial No. 149,600**
**3 Claims. (Cl. 179—178)**



1. A locking clip for use with a desk-type telephone comprising a base and a handset having a position of non-use on said base and said base having a recess therein below the position of non-use of the handset and opening through the rear side of the base, substantially parallel top and bottom walls and a front wall connecting said top and bottom walls defining three of the limits of said recess, said locking clip comprising a mounting member including top and bottom

walls and a front wall connecting said top and bottom walls, said mounting member of spring stock and of a shape and size to be snapped into place in said recess with its walls engaging the corresponding walls of said recess, and a locking member hinged at its lower end to the rear edge of the top wall of said mounting member for hinged movement from a released position within said recess and partly resting on said base to a locking position in which it is disposed at the rearward side and is hooked over the top of said handset and secures said handset in its position of non-use on said base.

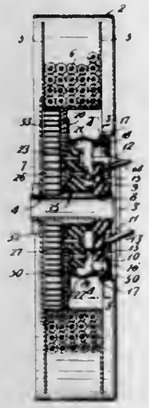
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**2,647,960**

## WEATHERPROOF REEL FOR ELECTRIC CORDS OR THE LIKE

**David Benjamin, Cleveland, Ohio, assignor to Benjamin Reel Products Inc, Cleveland, Ohio, a corporation of Ohio**

**Application August 31, 1950, Serial No. 182,501**
**3 Claims. (Cl. 191—12.4)**



1. In a reel for electric cord or the like, a base plate, a hub secured to said base plate and extending therefrom, means forming a base ring on said base plate protruding therefrom axially inwardly concentrically with said hub and lying radially therebeyond, a drum for receiving and storing electric cord thereon journalled on said hub, a wear resistant low friction sealing ring rotatably carried by and bearing on said base plate and snugly engaging said base ring, a resilient deflectible sleeve secured to said drum and to said sealing ring to aid in positioning said sealing ring and to produce rotation of said sealing ring with said drum, and electric contact means operatively connecting said drum and said base plate within the periphery of said sleeve.

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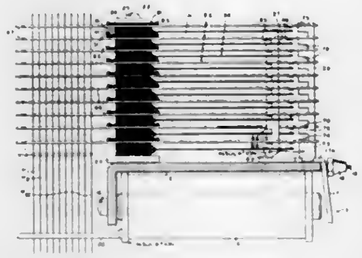
**2,647,961**

## MULTICONTACT RELAY

**Norman H. Saunders, Chicago, Claude J. Hackett, Oak Park, and John I. Bellamy, Brookfield, Ill., assignors, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware**

**Original application May 9, 1946, Serial No. 668,356, now Patent No. 2,606,958, dated August 12, 1952. Divided and this application June 20, 1950, Serial No. 171,988**
**5 Claims. (Cl. 200—1)**

1. In an electrical contacting device, contact blades and means at the rear end thereof for supporting them separated from each other in superposed relationship, the front portion of each blade being of open bifurcate construction providing laterally displaced furcations having a rack-receiving space between them, an insulating rack lying in the rack-receiving space of all the blades, said rack being of a blade-like form, having its width dimension greater than the lateral displacement of said furcations, and having its thickness dimension small enough to permit the rack to be brought into its said position in the



rack receiving space, and to be removed therefrom, by a movement of the rack lengthwise of the contact blades, said rack having its rear edge serrated to provide rearwardly extending portions respectively underlying alternate ones of the blades at a non-furcate portion thereof, the remaining blades corresponding respectively to said alternate ones, and means for moving the rack endwise to bring all said alternate blades into and out of engagement with their respectively corresponding blades.

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**2,647,962**

## SWITCH FOR ELECTRIC RANGES

**Hugh W. Batcheller, Newton, Mass., assignor to Ark-Les Switch Corporation, Watertown, Mass., a corporation of Massachusetts**

**Application January 11, 1950, Serial No. 138,021**
**5 Claims. (Cl. 200—6)**



4. An electrical switch comprising a rotatable disc, a plurality of upstanding cam elements on a face of said disc having cam surfaces perpendicular to the plane of said face, said cam surfaces being generally circular and variously spaced from the axis of the disc, a plurality of elongated resilient members arranged in a plane parallel and adjacent to said disc and flexible in said plane, each said flexible member having a cam follower extending therefrom toward said disc and engageable by respective said cam surfaces as the disc rotates whereby to flex said flexible members, means rotatably supporting said disc and maintaining said flexible members in operative relation to said disc, and contact elements carried by said means and flexible members for mutual engagement and disengagement when said flexible members are flexed and unflexed.

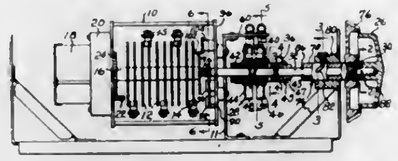


**2,647,963**

## TIME CONTROL SWITCH

**Earl C. Williams, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware**

**Application September 29, 1951, Serial No. 248,931**
**4 Claims. (Cl. 200—33)**



2. In an appliance timer, a frame, cam shaft means rotatably and slidably mounted therein, a plurality of disk cams mounted on said shaft means arranged in pairs, the cams of each pair being uniformly spaced, cam-engaging fingers mounted on said frame, said fingers having a cam-engaging face of a width sufficient to bridge the spacing between cams of a pair, one for each pair of cams and adapted to engage either cam, a timer motor for driving said shaft means, resilient means for holding said shaft means in either one of two axial positions spaced approximately the same as the spacing between cams of a pair, said cams having arcuate portions angularly aligned with respect to one another with the said cam portions of each pair of like radius, interlock means carried by said shaft means and frame for preventing axial movement of the shaft means when said arcuate portions are out of contact with said fingers, a thrust sleeve rotatably mounted on said shaft means, and camming means coacting between said sleeve and frame whereby on rotation of said sleeve, said shaft is moved axially.

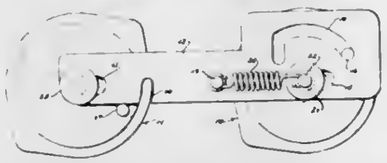
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**2,647,964**

## SWITCHING APPARATUS

**Alfred T. Merkel, Baltimore, Md., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application December 22, 1950, Serial No. 202,159**
**2 Claims. (Cl. 200—50)**



1. In an interlocking apparatus for use with a first and a second switch, each of said switches having a plurality of switch positions, and having rotatable assemblies including shafts, in combination; a first stud mounted for rotation with and on the rotatable assembly of said first switch, a second stud mounted for rotation with and on the rotatable assembly of said second switch, a plate member having a pair of slots therein slidably receiving said shafts, said plate member also having a first slot open at one end for receiving said first stud and a second slot closed at both ends receiving and retaining captive said second stud, said second slot having a straight portion and an arcuate portion, said plate member preventing motion of said second stud and thus said second switch when said first stud is in said first slot and said second stud is disposed in said straight portion at which arrangement said first stud and hence said first switch is movable to all of its switch positions; said first stud and hence said first switch being prevented from moving to all of its switch positions by said plate member when said second stud is disposed in said arcuate portion and said second switch is movable to each of its switch positions.

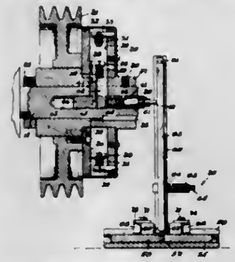
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**2,647,965**

## CONSTANT TENSION MEANS WITH MECHANOELECTRICAL TORQUE - RESPONSIVE CONTROL

**John S. Michie, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana**

**Application April 21, 1950, Serial No. 160,231**
**10 Claims. (Cl. 200—52)**



1. In a device of the class described, a rotor, an element supported from said rotor for turning movement relative to said rotor about the axis thereof, a reciprocator supported from said rotor and rotationally fixed but axially shiftable relative thereto, means providing a resilient rotary driving connection between said element and said rotor, cooperative camming means operatively associated with said element and said reciprocator and acting to control the axial position of said reciprocator in accordance with the relative rotational positions of said element and said rotor, a carriage, means supporting said carriage adjacent said reciprocator for movement toward and away from said reciprocator substantially in the direction of movement of said reciprocator, a post mounted on said carriage, a lever, means pivotally supporting said lever from said post, a pair of flow-controlling devices supported from said carriage and having actuating elements arranged in spaced, mutually-facing relation, said lever extending into cooperative relation with said actuating elements in the space therebetween, a portion of said lever being disposed in the path of movement of said reciprocator, and means resiliently urging said lever toward engagement with said reciprocator.

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**2,647,966**

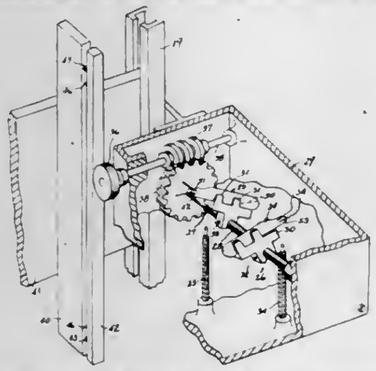
## ELECTRICAL SWITCHING OPERATING DEVICE

**Henning T. Tornberg, Ridgewood, N. J., assignor to Modern Plastic Machinery Corp., Lodi, N. J., a corporation of Delaware**

**Application October 6, 1951, Serial No. 250,048**
**2 Claims. (Cl. 200—52)**

1. In an electrical switching operating device, the combination of a frame, a shaft means carrying electrical switch components; said shaft means including one or more shafts revolvably mounted on the frame and related so that upon the rotation of one shaft, all the shafts will rotate, a wheel secured on such one shaft, a mem-

ber mounted for oscillatory movement on the frame, adapted during movement to frictionally contact the periphery of the wheel and turn the said wheel and thereby the shaft said wheel is mounted on, adjustable stop means on the shaft means and the frame, to determine the scope of the movement of one of the shafts; the periph-



ery of said wheel and the surface of said member which contacts said periphery being of such nature that the said member shall slip along the periphery of said wheel without turning said wheel while in contact therewith, upon continued movement of said member during the time when movement of the shaft means is halted by the stop means.

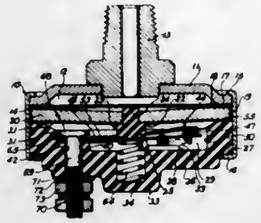
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**2,647,967**
**LOW TIRE INDICATOR SWITCH**
**Samuel K. Moot, Pampa, Tex.**
**Application March 26, 1951, Serial No. 217,444**
**2 Claims. (Cl. 200—58)**



1. A switch for closing a circuit through a device for indicating the deflated condition of a vehicle tire, said switch comprising a horizontally extending bolt mounted adjacent a tire, a block mounted on the bolt to rotate about the axis thereof and to move in an upwardly inclined path, an elongated feeler member mounted intermediate its ends on the block for movement therewith, a retractile coiled spring fixed at one end below the block and connected at its opposite end to the block for yieldingly holding the block down and against rotation, a curved contact member carried above the bolt in eccentric relation thereto, and said contact member lying in the path of movement of the feeler member for engagement thereby when the block moves upwardly or rotates against the effort of the spring.

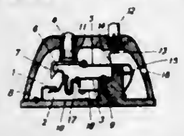
**2,647,968**
**ELECTRIC SWITCH ASSEMBLY**
**Peter M. Byam, Rochester, N. Y., assignor to Fasco Industries, Inc., Rochester, N. Y., a corporation of New York**
**Application October 2, 1950, Serial No. 187,850**
**1 Claim. (Cl. 200—83)**



A fluid operated switch assembly comprising a casing providing a cylindrical chamber, a body member for closing said chamber and provided with a recess facing said chamber and having a cylindrical side wall, said body member being provided with three equiangularly spaced axial holes extending into said recess and having a pair of chordal flat portions each in radial alignment respectively with one of said holes, an internally threaded insert in the third of said holes, a flexible diaphragm dividing said chamber into a fluid pressure compartment and a switch compartment, a switch arm member including a mounting portion having a pair of flat outer edges in spaced relation thereon equal to the spacing of said chordal flat portions, a terminal member extending through one of said holes in the body member and one end of said mounting portion to hold the flat outer edges thereof against said chordal flat portions, an actuating member between said diaphragm and said switch arm member, a semi-circular switch arm member having a flat outer edge adjacent one end thereof, a second terminal member extending through the other of the holes adjacent a chordal flat portion of the body member and holding the flat outer edge of said semi-circular switch arm against the adjacent chordal flat portion, the free end of said semi-circular switch arm member being in juxtaposition to the first mentioned switch arm member and an intermediate portion of said semi-circular switch arm member overlying said threaded insert, and a screw threaded through said insert into engagement with said semi-circular switch arm member for adjusting the position thereof and varying the movement of the actuating pin required to operate the switch assembly.

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**2,647,969**
**ELECTRIC SWITCH**
**Jean Alphonse Eugène Marcoz, Rueil-Malmaison, France**
**Application June 1, 1950, Serial No. 165,403**
**In France July 6, 1949**
**6 Claims. (Cl. 200—116)**



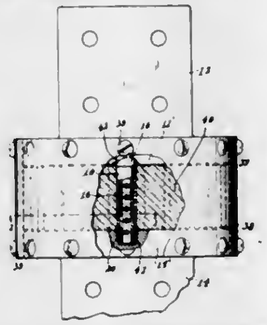
1. In an automatic switch of the type comprising a casing containing a movable and a fixed contact in combination at least one fixed contact, a first resiliently deformable arm, at least



one contact on said arm constituting the movable contact of the switch, said arm being adapted to move said movable contact away from said fixed contact, a second and more powerful resiliently deformable arm adapted to act on said movable contact in an opposite direction from said first arm, co-operating means on both said arms interengageable to subject said first arm to the action of said more powerful second arm to engage said movable contact against said fixed contact, and a bi-metal strip inserted in series in the electric circuit controlled by said switch and adapted by its distortion in case of a current overload to act on said co-operating means for separating them and for releasing thereby said first arm from the action of said second arm, and a push-button which is independent of said bi-metal strip, connected to said second arm realising the engagement of said cooperating means and adapted to protrude outside of the said casing as soon as the said cooperating means have been released under the effect of a current overload.

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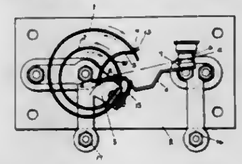
**2,647,970**
**CURRENT-LIMITING FUSIBLE PROTECTIVE DEVICE**
**William S. Edsall, Boston, Mass., and Kenneth W. Swain, Hampton, N. H., assignors to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts**
**Application October 23, 1951, Serial No. 252,676**
**25 Claims. (Cl. 200—120)**



1. A current-limiting device comprising a pair of electrically conducting terminal members, a plurality of electrically conducting fusible elements electrically connected together with at least one element electrically connected to one of said terminal members and at least one other element electrically connected to the other of said terminal members, each said fusible element having at least two portions of reduced cross-section, and a portion of relatively much greater cross-section intervening between said portions of reduced cross-section and having length between adjacent reduced cross-section portions at least equal to the length of each reduced cross-section portion, said portions of reduced cross-section being adapted to fuse substantially simultaneously in response to a rapidly rising current which is to be limited, and said intervening portion of each fusible element providing a mass of fusible metal which, in substantial part, continues unfused by extension of the arcs at said reduced cross-section portions, a separate enclosure of insulating material for each of said fusible elements, arc quenching filler material surrounding each fusible element within its said enclosure, a common insulating housing for said plurality of fusible elements and the enclosures thereof, said housing extending between said terminal members and maintaining them in a predetermined spaced relationship, and dielectric material within said housing between said terminal members and surrounding each of said separate enclosures.

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**2,647,971**
**THERMAL RESPONSIVE AUTOMATIC SWITCH**
**Kinichi Mizutani, Yokohama, Japan**
**Application November 26, 1949, Serial No. 129,569**
**In Japan January 26, 1947**
**3 Claims. (Cl. 200—138)**



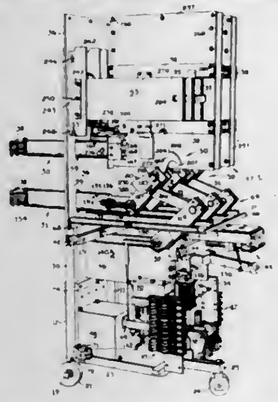
1. A thermal responsive automatic switch which comprises a base, a plurality of co-operating thermal responsive elements bent to approximately circular form and arranged approximately concentrically by being fixed at one end thereof to the base, a switch lever having a floating fulcrum, a switch contact at one end of the switch lever, a curved spring member engaging at one end with the free end of one of said thermal responsive elements and at the other end engaging with the end of the switch lever that is opposite from the contact-carrying end, said switch lever being engaged and actuated by the free end of another one of said thermal responsive elements, the thermal responsive elements, switch lever and spring member being so arranged that when the temperature of said thermal responsive elements becomes higher than a predetermined degree, the force caused by the relative deformation of said thermal responsive elements acts to bend said spring member for quickly turning said switch lever about its floating fulcrum by the stored spring energy, thereby opening the switch contact by snap action.

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**2,647,972**
**HIGH-VOLTAGE CIRCUIT BREAKER**
**Joseph D. Wood, Upper Darby, and Arthur S. Caswell, Philadelphia, Pa., assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Original application January 11, 1947, Serial No. 721,648, now Patent No. 2,613,299, dated October 7, 1952. Divided and this application June 4, 1947, Serial No. 752,427**
**2 Claims. (Cl. 200—147)**

1. In a circuit breaker having contacts, an arc chute comprising a plurality of plates, a blow-out coil, a blow-out iron circuit comprising a core for said blow-out coil, and laminated iron plates connected to said core and extending at right angles to said core, said blow-out iron circuit being so arranged that the flux induced therein when current flows in said coil is substantially evenly distributed over all of the said plate area for making maximum use of said arc chute, and auxiliary blow-out iron plates mechanically and magnetically attached to said laminated plates and extending at right angles to said plates toward said contacts on each side of said arc chute for diverting a portion of the blow-out field into the vicinity of the contacts, said blow-out structure and arc chute structure

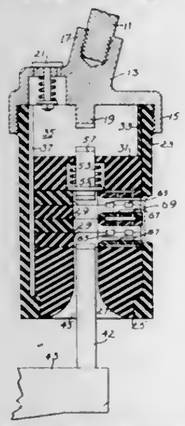
being mechanically separate and independent of each other, said arc chute being removable independent of said blow-out structure, said blow-out structure acting as a support for said arc chute.



## 2,647,973
## CIRCUIT INTERRUPTER

**Donald M. Umphrey, Palo Alto, Calif., assignor to Pacific Electric Manufacturing Corp., a corporation of California**

**Application July 18, 1949, Serial No. 105,388**
**12 Claims. (Cl. 200—150)**



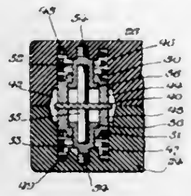
1. An interrupter for use immersed in a dielectric liquid comprising a pair of current carrying contacts relatively movable to separate and establish a direct arc path therebetween, means for directing gases and vapors generated in said arc path in a direction away from said path, and means for forcing a plurality of jets of said liquid through said gases and vapors in a direction transverse to their direction of flow.

## 2,647,974
## ELECTRIC SWITCH CONTACT ASSEMBLY

**Harold E. Schleicher, West Hartford, Conn., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut**

**Application December 1, 1950, Serial No. 198,680**
**7 Claims. (Cl. 200—166)**

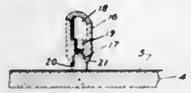
1. In an electric switch, a bridging contact movable to engage and disengage fixed contacts, a movable carrier for said bridging contact comprising cooperating insulating members beyond which said bridging contact extends, a passage between said members at their cooperating faces in which said bridging contact is located and movable, sleeve members on opposite sides of said bridging contact, and spring means between each insulating member and sleeve member pressing said sleeve members against said bridging contact on opposite sides thereof whereby said contact is floatingly mounted, and a guide member running between said insulating members and through said bridging contact guiding the movement of said bridging contact.



## 2,647,975
## ELECTRICAL CONTACT DEVICE

**William R. Jack and Lysle D. Cahill, Chagrin Falls, Ohio; said Cahill assignor to said Jack**

**Application December 19, 1951, Serial No. 262,432**
**2 Claims. (Cl. 201—55)**

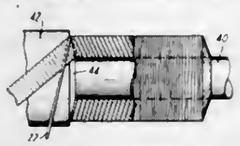


1. In combination in an electrical assembly, a housing, a contact surface, an electrical contact device including a carrying arm mounted for movement in said housing, a rigid holder member rigidly carried by said arm, said holder having a longitudinal hollow substantially conical bore extending continuously to become larger at its radially outward end at the outer end of the holder, a globule of liquid mercury in said conical bore in said holder and, by reason of its inherent physical characteristics in its effort to assume a spherical shape, being inherently adapted to exert a constant resilient contact pressure on said contact surface, said holder having a vent therein for the escape of air from behind the mercury in said holder.

## 2,647,976
## ELECTRICAL RESISTOR

**Walter Kasten, Detroit, Mich., and Lawrence C. Anderson, Cleveland, Ohio, assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**

**Application March 25, 1949, Serial No. 83,442**
**10 Claims. (Cl. 201—63)**



1. An electrical resistor or the like comprising a plurality of axially aligned continuous convolutions of an electrically nonconducting material forming a hollow tubular member, radial pores between said convolutions extending from the hollow interior of said member to the outside surface thereof, a continuous resistance wire fully embedded between said convolutions, and contacts mounted at each end of said member and connected to said wire.



## 2,647,977
## ELECTRIC RESISTANCES

**Erich Weides, Langel, near Porz (Rhine), Germany**

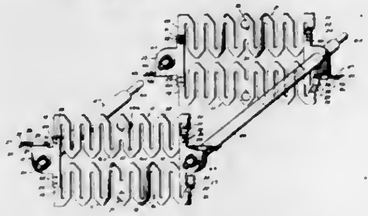
**No Drawing. Application December 6, 1950, Serial No. 199,555. In Germany December 6, 1949**
**1 Claim. (Cl. 201—64)**

An electric resistance comprising a carrier body of insulating material, a resistance layer applied to the carrier body, said resistance layer being covered by a protective layer consisting of hardenable cement, characterized therein that the cement consists of a mixture of phosphoric acid, aluminum phosphate, and ceramic materials of the group comprising porcelain, steatite, sillimanite, mullite, the relative proportions of aluminum phosphate and phosphoric acid being so chosen that a heat conductivity of more than $1.5 \times K$ cal/hm °C. between 20° and 100° C. results.

## 2,647,978
## RESISTANCE UNIT AND ELEMENT THEREOF

**Alvin C. Dyer, Shaker Heights, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**

**Application August 11, 1951, Serial No. 241,408**
**17 Claims. (Cl. 201—69)**



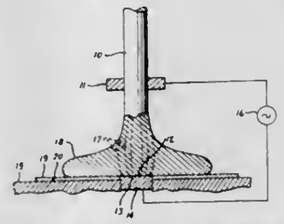
1. An electric resistor comprising a group of generally planar metallic grid members arranged in pairs with the individual grids of each pair in generally edgewise spaced and generally parallel relation and the several pairs arranged in flatwise spaced and generally parallel relation to each other, whereby adjacent ones of the pairs are offset laterally one from the other, each of the grid members of each pair having, at one end of the pair, a first integral lug portion, electrically conductive rigid supporting members respective to the pairs and each electrically interconnecting and permanently bonded to the first lug portions of its associated pair and thereby holding the grid members of its associated pair fixedly in said generally edgewise spaced and generally parallel relation, each grid member of each pair having a second integral lug portion at its opposite end, additional electrically conductive rigid supporting members for the pairs, respectively, each additional supporting member being electrically connected and permanently bonded at one portion to the second lug portion of one grid member of its associated pair, and, at another portion, to the second lug portion of a grid member of a next adjacent pair, and means cooperating with said supporting members and said additional supporting members for holding said pairs in said flatwise spaced and generally parallel relation.



## 2,647,979
## METHOD AND APPARATUS FOR FORMING LARGE UPSETS

**Lorne F. Knight, Toronto, Ontario, and Arnold Pitt, Weston, Ontario, Canada, assignors to Massey-Harris Company, Limited, Toronto, Ontario, Canada**

**Application June 27, 1952, Serial No. 295,932**
**8 Claims. (Cl. 219—3)**

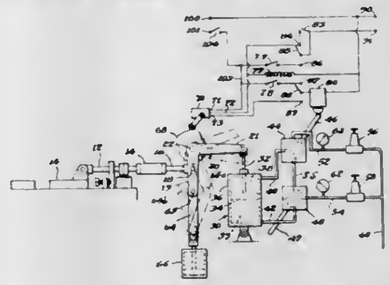


1. The method of upsetting a metal bar or the like, comprising the steps in combination of: passing an electrical current through the bar between two spaced apart points defining therebetween a deformable region and to cause the deformable region to heat to a deforming temperature; moving said bar toward a point contained within the deformable region and at which an upset is desired to be formed; and supporting at least a portion of the upset during formation with a material of effectively high electrical resistance and low thermal conductivity.

## 2,647,980
## PLATEN CONTROL MECHANISM FOR WELDING MACHINES

**Charles D. Moore, Malden, Mass., assignor to Thomson Electric Welder Company, Lynn, Mass., a corporation of Massachusetts**

**Application March 30, 1950, Serial No. 152,887**
**4 Claims. (Cl. 219—4)**



1. In a flash butt welder having a movable platen, platen controlling mechanism including means for advancing said platen through an initial flash travel at a variable predetermined speed, means for thereafter applying a variable predetermined force to said platen to cause said platen to further advance through an upset travel at a variable relatively faster speed induced by said force, and means variable independently of said two aforesaid means for applying a still greater variable predetermined force to said platen after said platen has moved beyond its

position at the initiation of said upset travel, whereby the final applied force may be varied independently of the upset travel speed caused by application of a selected upset force.

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2,647,981

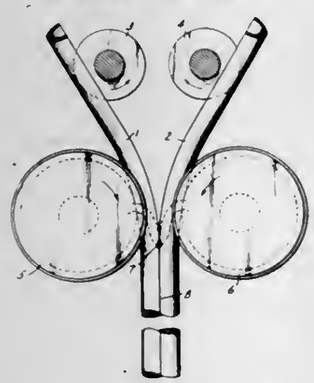
**ELECTRICAL BUTT SEAM WELDING OR CUTTING PROCESS AND APPARATUS FOR CARRYING OUT SAID PROCESS**

**Alfred Wögerbauer, Zipf, Oberosterreich, Austria**

**Application November 9, 1948, Serial No. 59,108**

**In Austria December 8, 1947**

**9 Claims. (Cl. 219—6)**



1. A continuous electric butt-seam welding process for manufacturing tubes, which comprises providing at least two longitudinal parts capable of forming a tube when put together, convergently conveying and forcing said parts toward each other by moving said parts by current conducting means until said parts contact so as to form at least two open seam gaps extending from the points of contact of said parts, and to press said parts together at said points of contact, supplying welding current to said parts by the mentioned current conducting means, and causing said current to flow in a loop-like course around said seam gaps and through said points of contact.

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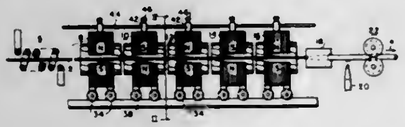
2,647,982

**MANUFACTURE OF SEAM WELDED TUBES**

**Robert M. Baker, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application March 10, 1950, Serial No. 148,904**

**8 Claims. (Cl. 219—6)**



1. Tube-forming means comprising, in combination, means providing a work-passage through which skelp is adapted to be moved longitudinally, said means comprising successively along said work-passage: a longitudinal flux coil means, a transverse flux induction heating means comprising a core-structure having a pole face along said work-passage, tube forming roll means, an air-oxygen jet, and welding roll means.

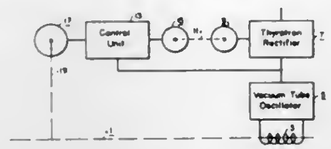
2,647,983

**POWER REGULATION IN HIGH-FREQUENCY HEATING APPARATUS**

**Bruce Boyd, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application December 22, 1948, Serial No. 66,822**

**6 Claims. (Cl. 219—47)**




1. In a system for high frequency dielectric heating of work to be conveyed at a variable rate between a pair of electrodes, the combination comprising a high frequency oscillation generator having a power output tube and an output circuit disposed to supply high frequency potential to said electrodes, a power supply including an electric discharge device having a control grid and connected to control the power output tube of said high frequency generator, means for deriving a voltage proportional to the speed of said work, means for deriving a voltage proportional to the power supply electric discharge device load current, and means responsive to the resultant of said last mentioned voltages and connected to said control grid for changing the power supply output, whereby the work temperature will be maintained at a substantially constant value, irrespective of variations in the speed of said work.

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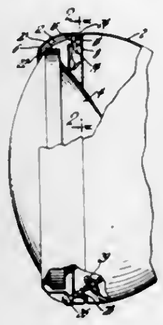
2,647,984

**HEADLIGHT BEZEL RING MOUNTING**

**Robert N. Falge, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application October 22, 1949, Serial No. 123,014**

**4 Claims. (Cl. 240—41.5)**



4. In a lamp mounting, a generally cup-shaped casing having a recess adjacent the edge thereof, a bezel provided with a pair of opposed return bent flanges, and means securing said bezel to said casing comprising a wire member having legs resiliently pressed between the return bent flanges on said bezel and a generally U-shaped portion connected and angularly disposed to said legs, said U-shaped portion extending into said recess.



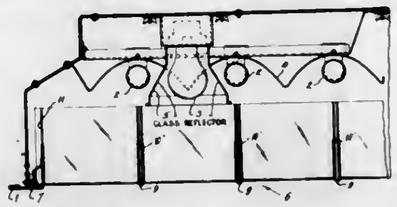
2,647,985

**ILLUMINATION FIXTURE AND LOUVERS THEREFOR**

**David J. Biller, St. Louis, Mo., assignor to Day-Brite Lighting, Inc., St. Louis, Mo., a corporation of Missouri**

**Application December 24, 1947, Serial No. 793,592**

**3 Claims. (Cl. 240—51.11)**




1. A light fixture comprising a housing; a plurality of fluorescent bulbs in said housing; a plurality of incandescent bulbs in said housing arranged in a spaced symmetrical pattern; reflectors for each of said fluorescent bulbs; glass reflectors for each of said incandescent bulbs, said glass reflectors extending through the reflectors for said fluorescent bulbs; and a louver formed from U-shaped wall sections and provided with rectangular openings fitted in said housing and so arranged that each of said incandescent bulbs is disposed directly opposite a louver opening to thereby project a preselected light pattern from said fixture.

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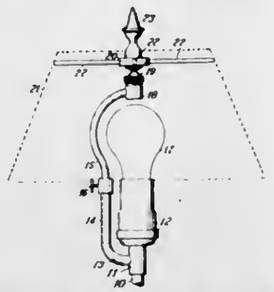
2,647,986

**SINGLE ARM ADJUSTABLE SUPPORT FOR LAMP SHADES AND SWITCHES**

**George H. Kernodle, Washington, D. C.**

**Application July 25, 1949, Serial No. 106,667**

**1 Claim. (Cl. 240—148)**



An adjustable lamp shade and lamp switch supporting fixture comprising in combination: a hollow-fitting adapted to be secured to a hollow lamp base and adapted to support an upwardly-directed bulb socket, a single tubular hollow arm having one end rigidly secured to said fitting, said arm extending laterally outward from said fitting and then vertically upward adjacent the side of said bulb socket to substantially the top of said socket, the interior of said hollow arm being in communication with the interior of said fitting, a second tubular hollow arm having its lower end telescoped within the upper end of said first hollow arm and being pivotable therein on a vertical axis and also slideable therein in a vertical direction, clamping means carried by said first hollow arm and engaging said second hollow arm to secure the said second arm adjusted in a desired position with respect to said first arm, said second hollow arm having its upper portion curved first outward and then upward and then inward to a point substantially in line with the vertical axis of said hollow fitting, a second hollow fitting secured to the upper end of said second hollow arm, the interior of said second hollow arm being in communication with the interior of said second fitting, a hollow tubular housing positioned above said second hollow fitting, a hollow universal joint connector securing said tubular housing to said second hollow fitting, the interior of said housing being in communication with the interior of said second fitting through said hollow universal connector, said housing being adapted to engage and support a lamp shade frame and being adapted to contain a lamp switch connected to said bulb socket by electric wires passing through the interiors of said connector, second fitting, second arm, first arm, and first fitting, said supporting fixture providing for adjustment of said lamp shade support housing in vertical directions, in horizontal directions, and also providing for adjustment of said lamp shade support by tilting of its vertical axis to off-vertical directions.

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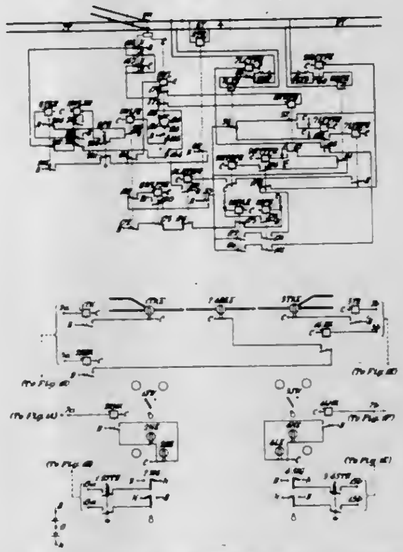
2,647,987

**CENTRALIZED TRAFFIC CONTROL SYSTEM FOR RAILROADS OF THE NORMALLY DE-ENERGIZED REVERSIBLE CODED TRACK CIRCUIT TYPE, INCLUDING OUTLYING TRACK SWITCH PROTECTION**

**Charles W. Failor, Forest Hills, and Charles B. Shields, Penn Township, Allegheny County, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania**

**Application March 11, 1948, Serial No. 14,244**

**14 Claims. (Cl. 246—3)**



5. Block indication apparatus for indicating occupancy of a stretch of railway track equipped with a normally inactive reversible coded track circuit system of the type having a remotely controllable code sending stick relay at each end effective when energized to cause coded signaling energy to be supplied to the track rails of the stretch, said system having actuating means and restoring means at each end of the stretch for operating the code sending stick relay at the op-

posite end and for releasing such relay to restore the system to its inactive condition said system also having a code detector relay at each end responsive to coded signaling energy received over the rails from the opposite end when unoccupied; said block indication apparatus comprising a block indicator at a central office, two indication relays at said office controllable from the opposite ends of the stretch, a locally controlled traffic relay at each end of the stretch, means for operating each traffic relay when the adjacent code detector relay is operated, means for releasing such traffic relay when the adjacent restoring means is operated to restore the system to its inactive condition, remote control means for operating each indication relay rendered effective when the traffic relay for the corresponding end of the stretch is energized and the associated code detector relay is released, and also when such traffic relay is released and the associated code sending relay is energized, and means for causing said block indicator to indicate the occupancy of said stretch when and only when both said indication relays are operated.

7. Apparatus for indicating the condition of an outlying track switch in a stretch of railway track equipped with a normally inactive reversible coded track circuit system of the type recited in claim 5, said track switch being equipped with an electric lock which normally locks the switch in its normal position and which must be energized to enable the switch to be operated to its reverse position; said apparatus comprising manually operable means at the switch location, effective when operated, to cause actuating code energy to be supplied to the rails of the two portions of the stretch which extend in opposite directions from the stretch for energizing the code sending relays at both ends of the stretch, whereby the indication relays at the office for both ends of the stretch are energized to cause the display of an occupied block indication by the block indicator irrespective of the condition of occupancy of the stretch, and means effective only when said switch is locked in its normal position by said electric lock for enabling restoring code energy to be transmitted over the rails from one end of the stretch to the other to effect the release of said code sending relays.

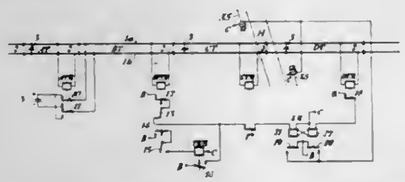
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**2,647,988**

## APPARATUS FOR CONTROLLING HIGHWAY CROSSING SIGNALS

**William H. Claus, Downers Grove, Ill., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania**

**Application March 23, 1950, Serial No. 151,383**
**2 Claims. (Cl. 246—130)**



1. In combination with a stretch of railway track provided with two adjoining track sections, a track circuit including a track relay for each of said sections, the track relay for one of said sections comprising a polarized relay, means controlled by the track relay of the other section for supplying current of one polarity or the other to the track circuit for said one track section according as the other track relay is picked up or released respectively, a time element relay, an energizing circuit for said time element relay including a back neutral and a reverse polar contact of said polarized relay whereby a release of said polarized relay is effective to energize said time element relay only if the polar contacts of said polarized relay have operated to their reverse position in response to supply of current of reverse polarity to the track circuit of said one track section and means controlled by said time element relay.

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**2,647,989**

## FLEXIBLE REPEATER

**Earl D. Hilburn, Silver Spring, Md.**

**Application July 17, 1950, Serial No. 174,269**
**1 Claim. (Cl. 250—15)**



A radio repeater, comprising, a paraboloidal wave energy collector, a first tripod support for said collector, said support comprising means for adjustably supporting said collector for orientation at will in both azimuth and elevation, a paraboloidal wave energy reflector, a second tripod support for said reflector, said second support comprising means for adjustably supporting said reflector for orientation at will in both azimuth and elevation independently of said collector, a passive flexible wave guide section, a first passive rigid wave guide section rigidly secured to said collector and comprising an end opening aligned with the axis of symmetry of said collector for reversely deriving wave energy from said collector, a further passive rigid wave guide section rigidly secured to said reflector and comprising an end opening aligned with the axis of symmetry of said reflector for reversely applying energy to said reflector, means connecting said flexible wave guide section in series with said rigid wave guide sections to provide a completely passive wave energy conduit between said openings, said collector having a mounting aperture extending parallel with the axis of symmetry of said collector, said reflector having a mounting aperture extending parallel with the axis of symmetry of said reflector, and a telescope within each of said apertures to enable visual alignment of said collector and reflector with a source and a receiver of ultra high frequency, respectively, whereby said repeater requires no source of power or means of wave energy amplification for its operation, and said reflector and collector are relatively adjustable independently in different orientations.

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**2,647,990**

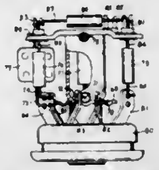
## APPARATUS FOR CONNECTING CIRCUIT ELEMENTS

**Glen Peterson, Tulsa, Okla.**

**Application September 21, 1949, Serial No. 117,056**
**15 Claims. (Cl. 250—16)**

15. An arrangement of conductors and insulators for mounting and interconnecting electronic circuit elements to minimize unwanted accessory impedances comprising in combination an electronic tube socket having lugs radially disposed about a centrally-located stem, and a conducting platform composed of a conducting pedestal and terminating conducting disk electrically connect-





ed to said pedestal, said platform being mounted axially below the tube socket by means of said pedestal which mates electrically with said stem, said platform and said tube socket terminals being disposed to conductively support circuit elements in positions adjacent said pedestal and parallel thereto.

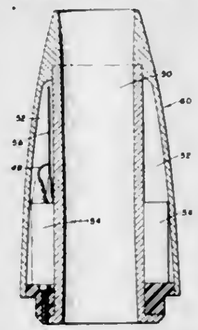
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**2,647,991**

## PROJECTILE RADIO SONDE

**Howard E. Tatel, Silver Spring, Md., and Edgar W. Trainer, Rochester, N. Y., assignors to the United States of America as represented by the Secretary of the Navy**

**Application November 22, 1949, Serial No. 128,742**
**6 Claims. (Cl. 250—17)**



5. In a projectile having a substantially axially located bore extending therethrough, and having a streamlined nose portion surrounding the forward end portion of said bore, an annular chamber at said forward end and substantially concentrically encircling the bore, and an antenna and electronic components operatively associated with said antenna and housed within said chamber.

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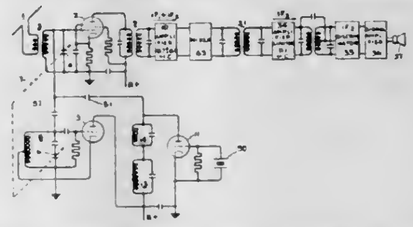
**2,647,992**

## FREQUENCY STABILIZED RADIO RECEIVING SYSTEM

**Robert B. Dome, Geddes Township, Onondaga County, N. Y., assignor to General Electric Company, a corporation of New York**

**Application December 3, 1948, Serial No. 63,292**
**4 Claims. (Cl. 250—20)**

1. A system for selectively receiving carrier waves occurring at evenly spaced frequency intervals over a band, comprising means for selecting one of said carriers, means comprising a first tunable local oscillator for generating any desired frequency within a corresponding band displaced in frequency from said first band, means to produce a first intermediate frequency resulting from the difference in frequency between said carrier and said oscillator, means comprising a second local oscillator for generating a fixed frequency equal to an integral multiple, including unity, of said frequency interval and for simultaneously generating harmonics thereof, means for selecting a particular one of said harmonics, means for producing a second intermediate fre-



quency resulting from the difference in frequencies between said first local oscillator and said selected harmonic, means to translate both said intermediate frequencies through a common signal channel, means connected to the output of said channel to produce a third intermediate frequency resulting from the difference in frequency between said first and second intermediate frequencies, and means for demodulating said third intermediate frequency.

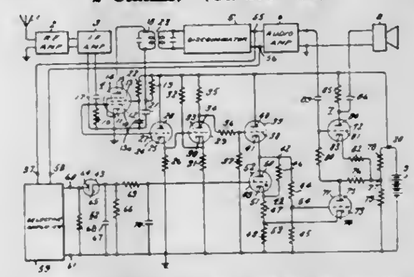
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**2,647,993**

## HIGH-FREQUENCY COMMUNICATION SYSTEM

**Garret F. Ziffer, Cambridge, Mass., assignor to General Electric Company, a corporation of New York**

**Application March 25, 1952, Serial No. 278,420**
**2 Claims. (Cl. 250—20)**



1. The combination, in a selective system for a high frequency receiver having a normally operative high frequency portion and a normally inoperative low frequency portion, a gaseous discharge device having an anode, a cathode and a control electrode, means responsive to a carrier wave in said high frequency portion to apply operating potential between said anode and cathode, means responsive to a second wave in said receiver to apply voltage to said grid to render said device conductive, said device being adapted to remain conductive upon termination of said last voltage so long as said operating voltage is applied between said anode and cathode, a pair of resistances, means for applying operating potential in shunt with each of said resistances, a portion of one of said resistances being connected in shunt with said device, means responsive to a change in potential between predetermined points on said resistances due to current in said device to render said low frequency

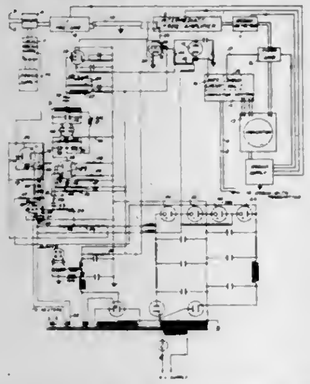
portion operative whereby said low frequency portion remains operative during reception of said carrier wave and becomes inoperative upon interruption of said carrier wave.

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**2,647,994**
**AUTOMATIC FREQUENCY CONTROL IN PULSE TRANSMISSION SYSTEMS**

**Herbert G. Weiss, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application December 4, 1943, Serial No. 512,926**
**24 Claims. (Cl. 250—20)**



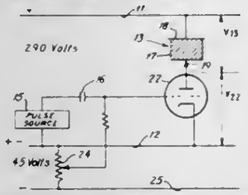
24. Apparatus for automatically maintaining a high frequency device substantially at a desired frequency comprising means for tuning said apparatus, means connected for controlling said tuning means for cyclically varying the operating frequency of said device over a predetermined frequency range, and means responsive to the output frequency of said device for reversing the frequency control action of said control means to maintain said output frequency substantially at said desired frequency.

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**2,647,995**
**TRIGGER CIRCUIT**

**Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Application December 7, 1950, Serial No. 199,687**
**6 Claims. (Cl. 250—27)**

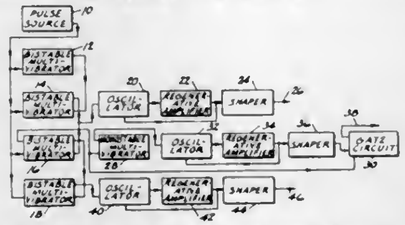



6. A trigger circuit operable to two sustained conditions of equilibrium comprising a two-terminal variable impedance device, said device having positive and negative impedance characteristics, biased electron discharge means serially coupled to said device, and means including pulse means coupled to said electron means for causing a change in said characteristics whereby said circuit shifts from one of said conditions to the other.

**2,647,996**
**COUNTING CIRCUIT**

**Alexander Greenfield, Detroit, Mich., assignor to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware**

**Application February 23, 1951, Serial No. 212,420**
**10 Claims. (Cl. 250—27)**



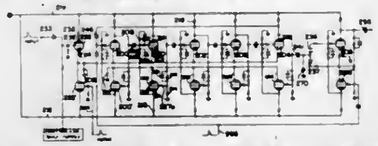

1. In combination, first, second and third channeling means adapted to provide activated channels during the periods between successive pairs of sequential pulses, means associated with the first and third channeling means and operative upon the activation of the first and third channels to produce a plurality of oscillatory signals proportional to the spacings between pulses, means associated with the second channeling means and operative upon the activation of the second channel to produce a predetermined number of oscillatory signals, and means associated with the channeling means and the oscillatory means in the second channel for quenching the oscillatory signals produced during the activation of the second channel to produce a number of signals decimally complementary to the value represented by the quenched signals.

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**2,647,997**
**ELECTRONIC COUNTING DEVICE**

**Samuel B. Williams, Chevy Chase, Md., assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**

**Original application November 23, 1949, Serial No. 128,985. Divided and this application November 14, 1951, Serial No. 256,275**
**2 Claims. (Cl. 250—27)**



1. In a bi-quinary electronic accumulator, the combination of a quinary portion consisting of five pairs of tubes, each pair containing a digit-representing tube and a mate tube, an operating potential supply for the digit-representing tubes, operating potential supply for the mate tubes, circuits connecting the tubes of each pair for operation as a trigger pair having two stable states, and circuits connecting the trigger pairs in a ring for operation in which one pair after another in succession will have its digit-representing tube conducting; a binary portion consisting of a pair of tubes, circuits for supplying operating potential to the pair of tubes and for connecting the tubes for operation as a trigger pair having two stable states, and a coupling between this trigger pair and a pair of the ring by which this trigger pair will be given an operation each time the pair of the ring operates; said binary portion and quinary portion combining to represent decimal amounts; input means including means in the operating potential supply for the digit-repre-



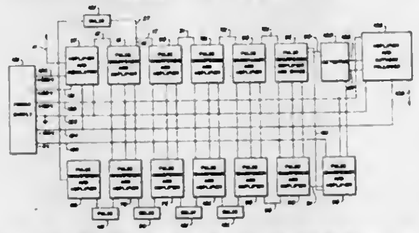
senting tubes, operable in response to input impulses to momentarily short-circuit all the digit-representing tubes in the ring to turn off any conducting digit-representing tubes; and means in the trigger circuits of the ring to enable any digit-representing tube which is turned off to send an impulse over the ring connection to cause the next digit-representing tube in sequence in the ring to conduct when the short circuit is removed therefrom.

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**2,647,998**
**METHOD AND APPARATUS FOR DETERMINING FREQUENCY**

**Gordon Donald Paxson, El Cerrito, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission**

**Application April 3, 1952, Serial No. 280,209**
**5 Claims. (Cl. 250—27)**



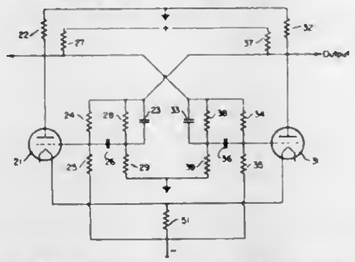
1. In a frequency marker pulse generator for a frequency-modulated system, the combination comprising means for developing a pulse of voltage in response to each positive half cycle of a frequency-modulated signal voltage, a first and a second channel connected to said means, means included in said first channel for sharpening and amplifying said pulses of voltage, first means included in said second channel for delaying said pulses of voltage an interval of time equivalent to the cyclic period of a predetermined frequency, second means included in said second channel for sharpening and amplifying pulses of voltage delayed by said first means, means connected to said first and second channels for adding the voltage outputs thereof, and means connected to said last-named means for passing a voltage pulse only when pulses of voltage of said channels are in phase.

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**2,647,999**
**BISTABLE CIRCUITS**

**Richard L. Best, Wayland, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York**

**Application May 1, 1952, Serial No. 285,455**
**3 Claims. (Cl. 250—27)**



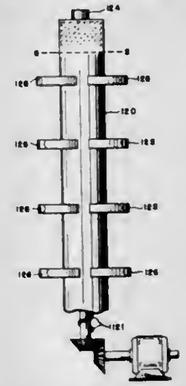

1. A bi-stable circuit comprising two tubes each having a grid and a plate, a network connecting the plate of each tube with the grid of the other, each network including a high-impedance element effective under stable conditions and a low-impedance element to provide a short resolution time, and high-capacitance coupling means between said elements.

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**2,648,000**
**CONTROL OF WAVE LENGTH IN WAVE GUIDES**

**Milton G. White, Princeton, N. J., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Original application October 2, 1943, Serial No. 504,777. Divided and this application June 14, 1951, Serial No. 231,494**
**11 Claims. (Cl. 250—33.53)**



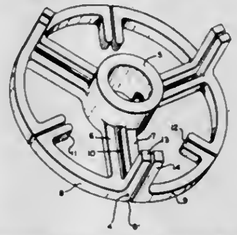
1. An antenna comprising, a coaxial wave guide having inner and outer conductors, one of said conductors being rotatably mounted relative to the other of said conductors, said outer conductor having a plurality of spaced radial projections extending into the space between said conductors and said inner conductor having a continuous screw thread also extending into said space, a plurality of spaced dipole elements mounted on said outer conductor and electrically coupled to said space, and means for rotating said rotatably mounted member.

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**2,648,001**
**RING TYPE ANTENNA**

**Howard J. Rowland, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**

**Application April 11, 1946, Serial No. 661,205**
**5 Claims. (Cl. 250—33.53)**

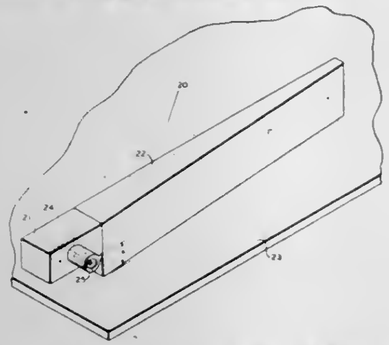


1. An antenna structure comprising, a central collar, a plurality of pairs of supporting arms ex-

tending radially outward from said central collar, a plurality of arcuate dipole radiating elements arranged in a common circle in a common plane, each of said dipole elements being secured at one end to a separate one of said supporting arms, the unsecured ends of said dipole elements extending radially inward toward said central collar, and a plurality of pairs of metallic stubs integrally joined to said dipole elements at the point of connection thereof with said supporting arms and extending perpendicularly in one direction from the plane of said dipole elements.

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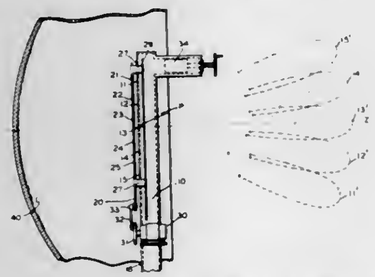
**2,648,002**
**DIELECTRIC ANTENNA**
**James E. Eaton, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application November 19, 1945, Serial No. 629,671**
**5 Claims. (Cl. 250—33.63)**



3. A radar antenna comprising, a solid dielectric rod formed into a feed portion and a radiating portion, said radiating portion being uniform in height and decreasing in width as it extends away from said feed portion, said feed portion being of uniform cross section equal in width to the large end of said radiating portion but of reduced height at one surface thereof whereby the longitudinal axis of said feed portion is offset from the longitudinal axis of said radiating portion.

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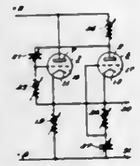
**2,648,003**
**VERNIER SCANNER**
**Lan Jen Chu, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application January 7, 1946, Serial No. 639,677**
**10 Claims. (Cl. 250—33.65)**



1. A radio antenna comprising, a rectangular wave guide, a plurality of transversely disposed first slots longitudinally arrayed in a wide wall of said wave guide for radiating away energy being propagated therein, said first slots being uniformly spaced apart a distance substantially equal to one-half the length of a wave of said energy in said wave guide, a substantially plane conductive sheet disposed adjacent to said wide-wall substantially in plane parallelism therewith and longitudinally slidable with respect thereto, a plurality of second slots similar in number and character to said first slots and similarly disposed and arrayed in said sheet, said second slots being uniformly spaced apart a lesser distance than said first slots in such fashion that the arrays of said first slots and said second slots would be of equal longitudinal lengths if there were one more second slot than there are first slots, and means for oscillating said plane sheet longitudinally with respect to said wave guide so that said first slots are each exposed one by one by the corresponding second slot and permitted to radiate said energy individually in the order in which they are arrayed in said wide wall.

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**2,648,004**
**MULTIVIBRATOR**
**Myron S. Wheeler, Upper Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 12, 1948, Serial No. 26,562**
**2 Claims. (Cl. 250—36)**



2. In combination, a first and second discharge devices, each having an anode, a cathode, and a control electrode, means for applying anode potentials to said discharge devices, a first capacitor connected between the control electrode of said first discharge device and the anode of said second discharge device, a resistance connected between said control electrode of said first discharge device and its cathode, a pair of output terminals, means rendering one of said output terminals and said cathodes common, a resistor capacitor network comprising a second capacitor connected between said control electrode of said second discharge device and the other of said output terminals, a resistor connected between the control electrode and cathode of said second discharge device, and a resistor shunting said output terminals, at least one of the elements of said resistor capacitor network being variable, whereby a plurality of different wave forms may be produced at said output terminals.

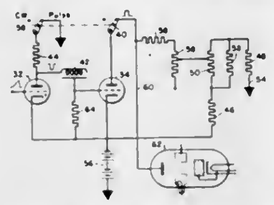
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**2,648,005**
**KLYSTRON OSCILLATOR**
**John W. Taylor, Jr., Baltimore, and William S. Parnell, Arbutus, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 4, 1948, Serial No. 47,794**
**9 Claims. (Cl. 250—36)**

1. In combination, an oscillator of the type whose frequency is a function of the voltage applied to one of its electrodes, a control circuit



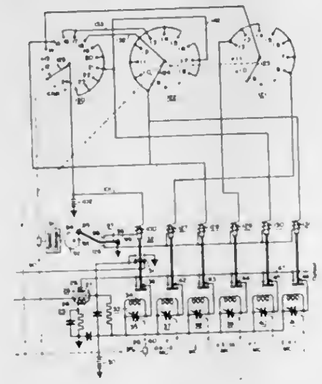
provided with switching means for supplying to said electrode a voltage derived from a selected one of a plurality of input circuits, a voltage control network in said control circuit for adjusting the magnitude of voltage applied to said electrode when said switching means is in one position of operation, a space discharge element connected in shunt relation to at least a portion



of said network when said switching means is in another position of operation to reduce the voltage on said electrode below the minimum required for operation, and means for rendering said space discharge element non-conductive to restore the voltage on said electrode to the value determined by said network in the first position of said switching means.

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**2,648,006**
**FREQUENCY GENERATOR**
**Forrest S. Mabry, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 14, 1949, Serial No. 127,156**
**12 Claims. (Cl. 250—36)**



1. In combination in a source of signals tunable over a predetermined range, means for generating a first plurality of harmonics having a predetermined frequency separation $f$ and extending over a first predetermined range of frequencies, means for generating a further plurality of harmonics having a predetermined frequency separation

$$\frac{f}{10}$$

and extending over a further predetermined range of frequencies, first means for selecting one of said first plurality of harmonics, second means for selecting one of said further plurality of harmonics, means for combining said selected one of said first plurality of harmonics with said selected one of said further plurality of harmonics to provide a predetermined conversion product, said means for combining comprising a mixer circuit, and means for tuning the output of said mixer circuit to the frequency of said predetermined conversion product in response solely to operation of said first and second means for selecting.

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**2,648,007**
**TUNING SYSTEM**
**Raymond J. Witkowski, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York**
**Application August 11, 1950, Serial No. 178,888**
**3 Claims. (Cl. 250—36)**



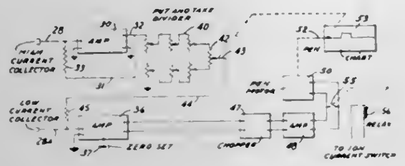
1. In combination, a reflex klystron oscillator for generating electrical waves, said oscillator comprising a repeller electrode and a cathode, a cathode-repeller electrode circuit for said oscillator, a source of unidirectional potential of adjustable amplitude coupled to said circuit, a source of electrical waves, an intermediate frequency channel, means for mixing the waves from said oscillator and said source to provide intermediate frequency waves, means for applying said intermediate frequency waves to said channel, a source of sweep potential coupled to said circuit for superimposing a sweep potential on said unidirectional potential for sweeping the frequency of said oscillator over a given range, a two coordinate display indicator, means for providing an indication in one coordinate of said indicator in accordance with the instantaneous amplitude of said sweep potential, means for providing an indication in the other coordinate of said indicator in accordance with the output of said intermediate frequency channel so that said unidirectional potential may be adjusted to position said channel indication along said sweep indication.

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**2,648,008**
**MASS SPECTROMETER**
**Robert L. Sink, Altadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California**
**Application July 11, 1949, Serial No. 104,030**
**4 Claims. (Cl. 250—41.9)**

1. In a mass spectrometer comprising two collector electrodes, a first amplifier connected to one of said electrodes, a second amplifier connected to the other of said electrodes, a potentiometer connected between the first amplifier and ground, the tap of the potentiometer being connected between the said other of said electrodes and the second amplifier, and a recorder, the improvement comprising a double pole, double throw switch connected between the first amplifier and

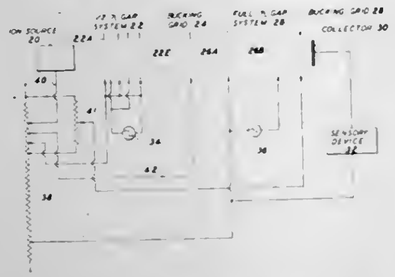
potentiometer with the potentiometer connected across the movable contacts of the switch and the first amplifier connected across one pair of stationary contacts of the switch, a balancing network connected to the other pair of fixed contacts of said switch, the arrangement being such that the potentiometer can be connected alter-



nately to the first amplifier and to the balancing network by means of the switch, a servo-system operative responsive to the output of the second amplifier to adjust the position of the said tap of the potentiometer, and means connecting said tap of said potentiometer and the marking means of said recorder, so that the recorder records the excursions of said tap of said potentiometer.

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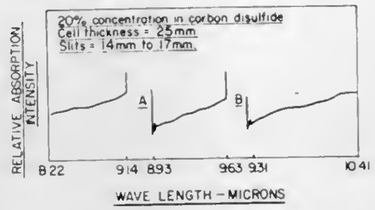
**2,648,009**
**MASS SPECTROMETER**
**Charles F. Robinson, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California**
**Application March 8, 1952, Serial No. 275,567**
**16 Claims. (Cl. 250—41.9)**



1. A method of mass separation which comprises ionizing a sample, subjecting the ions to a half-wave linear ratio frequency electrical field, imposing a first D. C. bucking field on the ions to reject ions of kinetic energy lower than a predetermined value, subjecting the unrejected ions to a full-wave linear ratio frequency field, imposing a second D. C. bucking field on the ions to again reject ions of kinetic energy lower than a predetermined value, and collecting the ions emerging from the second bucking field.

8. A mass spectrometer comprising a half-wave linear radio frequency gap system, a full-wave linear radio frequency gap system and a collector electrode in serial arrangement, an ion source including means for injecting ions into the half-wave gap system, means for injecting ions passing through the half-wave gap system into the full-wave gap system, means developing a first D. C. bucking potential to prevent ions having less than a given kinetic energy from entering the full-wave gap system, and means developing a second D. C. bucking potential between the full wave gap system and the collector electrode.

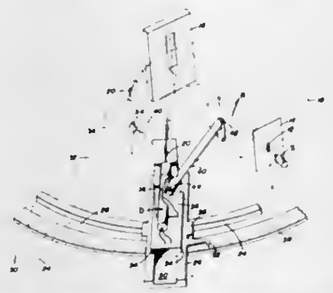
**2,648,010**
**METHOD OF CHARACTERIZING HYDROCARBON MIXTURES**
**Clara D. Smith, Columbus, Ohio, assignor to Standard Oil Development Company, a corporation of Delaware**
**Application August 10, 1949, Serial No. 109,441**
**3 Claims. (Cl. 250—43.5)**




1. In a process for characterizing complex liquid mixtures of hydrocarbons by infrared absorption characteristics in which the mixture to be characterized is first placed in a relatively thin sample cell, and for which no characteristic absorption spectrum can be obtained utilizing substantially monochromatic infrared energy, the improvement which comprises a first step of increasing the sample cell thickness until the amount of infrared energy passed through the sample is substantially undetectable, and thereafter increasing the band width of the infrared energy passed through the cell until a detectable amount of energy is passed through the sample, and thereafter continuing these steps until a characteristic absorption spectrum is obtained.

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**2,648,011**
**APPARATUS FOR ELECTRONIC SPECTROMETRIC ANALYSIS OF BACK-REFLECTION DIFFRACTION**
**James Nathan Good, Lafayette, Ind.**
**Application August 16, 1951, Serial No. 242,167**
**5 Claims. (Cl. 250—52)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

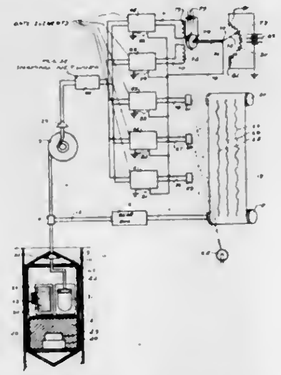


1. In an assembly for spectrometric diffraction analysis which assembly includes a wave energy source and a detector adapted to receive the wave energy after it has been diffracted from an object, means for mounting the detector on the circumference of a great focus circle of a focus sphere of diffracted radiations from the object, said means including a track having a curvature located on a circle whose center is at the object, a bed plate slidable in said track and having a guideway radially disposed relative to said circle, a link pivoted at one end at the center of said great focus circle, a carriage disposed in said guideway and assembled at a centro connection with said link, and means carried by said carriage for supporting said detector.



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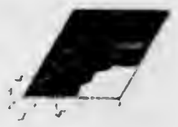
**2,648,012**
**NUCLEAR WELL LOGGING**
**Serge A. Scherbatskoy, Tulsa, Okla., assignor to Perforating Guns Atlas Corporation, Houston, Tex., a corporation of Delaware**
**Application October 5, 1949, Serial No. 119,601**
**11 Claims. (Cl. 250—71)**



7. In an apparatus for measuring frequency of arrival of incoming particles having characteristic energy, a detector responsive to said particles for producing a succession of impulses representing the frequency of arrival of said particles, the magnitude of said impulses representing said energy, a source of reference particles of known energy positioned to cause a response in said detector, whereby said detector produces reference impulses in response to said reference particles, the magnitude of said reference impulses indicating the sensitivity of said detector, means for determining the variation of said reference impulses, and means for controlling the magnitude of said first impulses.

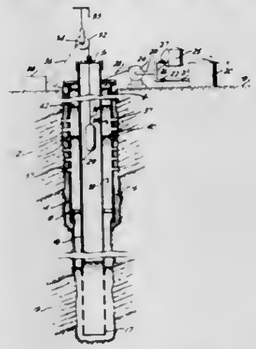
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**2,648,013**
**FLUORESCENT SCREEN**
**James Sterrett Smith, Towanda, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**
**Application January 21, 1952, Serial No. 267,402**
**9 Claims. (Cl. 250—80)**



1. A fluorescent screen comprising a support, a layer of fluorescent particles on said support and an outer protective layer composed of a hydrophobic, hard-film-forming polymer, the outer surface of which has a shallow grooved pattern surface, said grooves being regularly spaced, continuous and being from 0.02 to 0.035 mm. in depth and 0.1 to 0.25 mm. in width and the centers being spaced from 0.1 to 2.5 mm.

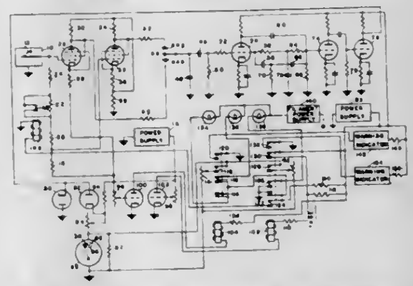
**2,648,014**
**MEASUREMENT OF INJECTION PROFILES**
**Milan G. Arthur, Whittier, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California**
**Application February 17, 1950, Serial No. 144,682**
**21 Claims. (Cl. 250—83.6)**



1. A method for determining the injection profile of an injection zone of a well which comprises injecting a first body of water into the annular space between an inner pipe and the wall of said well, injecting a second body of water containing a dissolved radioactive salt into said annular space and forming an interfacial boundary between said first body of water and said second body of water, causing said first and said second bodies of water to flow downwardly through said annular space and into said injection zone and following the downward movement of said interfacial boundary by means of a radiation detector located within said inner pipe.

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**2,648,015**
**SYSTEM FOR MEASURING RADIOACTIVITY**
**Alexander Greenfield and Joseph F. Clayton, Detroit, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware**
**Application May 31, 1951, Serial No. 229,228**
**9 Claims. (Cl. 250—83.6)**



1. A system for measuring the intensity of radioactivity, including, an ionization chamber for converting the radioactivity into a proportionate electrical circuit, a pair of tubes normally balanced to provide direct output voltages of substantially equal magnitudes, means for unbalancing the output voltage from one of the tubes in accordance with the value of the electrical current, means for converting the difference in the output voltages from the two tubes into an alternating voltage proportionate to the

voltage difference, means for amplifying the alternating voltage, and means for providing an indication in accordance with the value of the amplified alternating voltage.

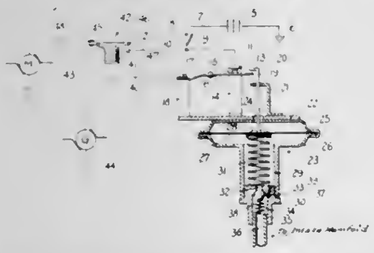
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**2,648,016**

**AUTOMATIC STARTER-ENERGIZING CIRCUIT FOR AUTOMOTIVE VEHICLES**

**Grant L. Van Gastle, deceased, late of Columbus, Ohio, by Shirley A. Van Gastle, administratrix, Columbus, Ohio, assignor to Shirley A. Van Gastle, Columbus, Ohio**

**Application December 15, 1950, Serial No. 200,977**
**1 Claim. (Cl. 290—38)**



In an automatic starter circuit for an automotive vehicle having an engine provided with a fuel intake manifold, a starter motor energizable to drive said engine, and a storage battery; an electromagnetic relay switch having a field winding and switch contacts electrically connected in series with said battery and starter motor, the winding of said relay switch being energizable to close an operating circuit for said starter motor; a second normally closed switch electrically connected in series with said battery and the winding of said relay switch, said second switch including a resiliently flexible contact-carrying arm movable to open said second switch; means defining an enclosed fluid pressure chamber; a movable pressure-responsive member in said chamber; conduit means connecting said chamber with the intake manifold of said engine; a switch actuator arm carried by said pressure-responsive member and engageable with the contact-carrying arm of said second switch to open the latter upon movement of said pressure-responsive member in response to subatmospheric pressures within the intake manifold of said engine; a check-valve positioned in said conduit means and arranged to interrupt the flow of fluid in a direction from said intake manifold toward said presure-responsive member, but to permit the free flow of fluids in the opposite direction; and restricted orifice means arranged in bypassing relation to said check valve for permitting only restricted flow of fluid in a direction from said manifold toward said pressure-responsive member.

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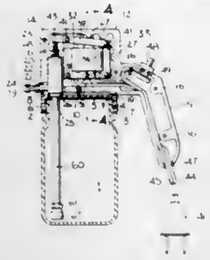
**2,648,017**

**ELECTRICAL SPRAYING DEVICE**

**Frank Ziherl, Euclid, Ohio, assignor to Z & W Machine Products, Inc., a corporation of Ohio**

**Application July 27, 1949, Serial No. 107,029**
**2 Claims. (Cl. 310—18)**

1. In an electrically operated spraying device including a pump and electromagnetic means for actuating said pump; the combination of an unsecured armature operatively associated with said electromagnet, and a housing enclosing said electromagnet, said housing having vertically and horizontally extending integral internal projections abutting the top and side of said armature to define the path of movement of said armature,



said vertically extending projections progressively abutting said armature.

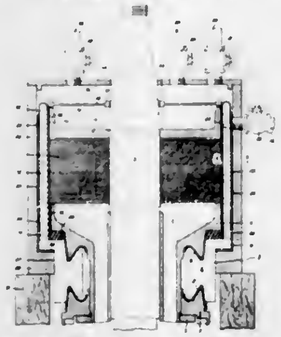
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**2,648,018**

**DYNAMOELECTRIC MACHINE MEMBER**

**Donald R. Meier, Erie, Pa., assignor to General Electric Company, a corporation of New York**

**Application November 28, 1950, Serial No. 197,984**
**7 Claims. (Cl. 310—43)**



1. A member for a dynamoelectric machine comprising a core formed of magnetic material and having winding slots formed therein, windings loosely fitting in said slots, a mass of solidified solventless polyester-type cast resin filling said slots and encasing said windings so as to secure said windings in said slots, and a coating of said resin on the circumferential surface of said core and integrally joined to said mass.

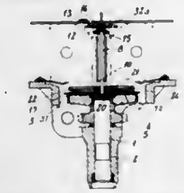
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**2,648,019**

**MAGNETICALLY ACTING SPEEDOMETER**

**Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France, assignor to Etablissements Ed. Jaeger, Seine, France**

**Application May 31, 1950, Serial No. 165,230**
**In France November 15, 1949**
**2 Claims. (Cl. 310—105)**



1. In combination with a magnetically-acting speedometer of the type in which a permanent plane magnet having a cylindrical contour and a concentrated induction field, rotating about an axis perpendicular to its plane and consisting of a magnetic material agglomerated under high pressure, drives a movable unit comprising a member made of non-magnetic metal suspended and having a low moment of inertia, of a first ring acting as the hoop member and made of a metal having a relatively low Curie point and a magnetism vanishing range, said first hoop member being mounted peripherally on said plane magnet in the portion thereof which is nearest to the member of non-magnetic metal, and of a second ring acting also as a hoop member and made of a metal having a Curie point substantially higher than the metal of the first hoop member and a magnetism vanishing range the extreme temperatures of which are higher than those of the corresponding range of said first hoop member, said second hoop member being mounted peripherally on the contour of said plane magnet opposite to said first hoop member with respect to the member of non-magnetic metal.



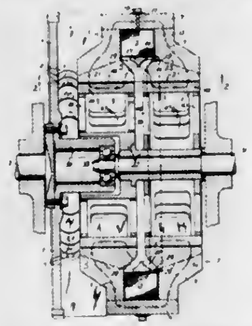
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**2,648,020**

**ELECTROMAGNETIC COUPLING**

**Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, a corporation of Delaware**

**Application December 29, 1951, Serial No. 264,202**
**6 Claims. (Cl. 310—105)**



1. An electromagnetic coupling comprising driving and driven members, an annular field coil adapted to produce a toroidal flux field, first and second pole rings attached to one of said members which in an axial direction are oppositely disposed with respect to the plane of said coil and are located in said toroidal flux field, the other member comprising an inductor composed of at least one sleeve having cylindric magnetic portions respectively facing each of said pole rings across an invariable distance between them, a third magnetic pole ring located between said first and second pole rings and facing said inductor across an invariable distance, and nonmagnetic means for mounting said third ring between said first and second rings and out of direct magnetic contact therewith.

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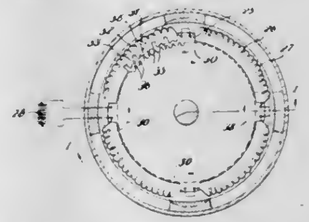
**2,648,021**

**STATOR CONSTRUCTION FOR MOTORS AND GENERATORS**

**Edward J. Kaczor and Clarence F. Schwan, Cleveland, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio**

**Application April 17, 1951, Serial No. 221,502**
**8 Claims. (Cl. 310—168)**

1. An inductor alternator comprised of a stator and a rotor in operative relationship, said stator including a plurality of field poles facing said rotor, each field pole having a plurality of armature poles on the rotor-facing surface thereof, each armature pole having a slot over the length thereof, said rotor having a plurality of slots over the length thereof, the pitch of the rotor slots being different than the pitch of the armature-pole slots, field-coil slots between said field poles, said field poles being integrally connected at the outer edge by a narrow portion bridging said field-coil slots, said portion having



a cross-sectional area insufficient to carry the field-coil flux without saturating and a flux-bridging member for each field-coil slot disposed outside of said stator member in aligned relationship with said field-coil slots, said member having a width greater than the width of said field-coil slots and a radial thickness sufficient that when taken into consideration with the narrow portion joining said field poles, the area of magnetically-permeable material behind the field-coil slots is sufficient to carry the field-coil flux without saturating.

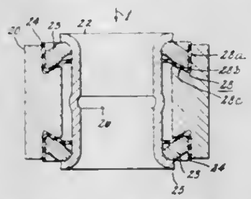
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**2,648,022**

**COMMUTATOR FOR DYNAMOELECTRIC MACHINES**

**Charles A. Nichols, Carl L. Clevenger, and Forest L. Zion, Anderson, and William A. Fletcher, Daleville, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**

**Application August 1, 1950, Serial No. 176,982, which is a continuation of application Serial No. 788,942, November 29, 1947. Divided and this application December 4, 1951, Serial No. 259,808**
**2 Claims. (Cl. 310—236)**

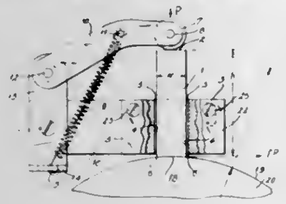


1. A commutator comprising, in combination, a plurality of wedge-shaped commutator bars arranged in an annulus, each bar having a keystone shaped locking wedge in the inner side thereof, a plurality of insulating members, one of which is interposed between each of said bars, a pair of substantially conical pressure members, one of which fits at either end of said bars and engages one end of the keystone portions thereof, insulating means interposed between said pressure members and commutator bars, and a tubular rivet having a central annular weakened portion which provides an axial assembly shrink in situ during assembly for pull-

ing and holding the pressure members under tension in tight engagement with the keystone locking portions of the commutator bars.

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**2,648,023**
**BRUSH HOLDER**
**Edwin C. Ballman, University City, Mo., assignor to Ballman Engineering Company, St. Louis, Mo., a corporation of Missouri**
**Application June 2, 1950, Serial No. 165,703**
**1 Claim. (Cl. 310—246)**

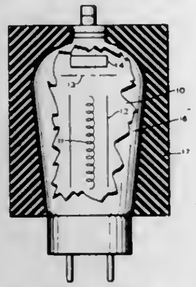


A holder for maintaining a brush of width $w$ and radial length $h$, in contact with a commutator of radius $r$, the brush having an arcuate free end of a radius of curvature $r+h$, said brush having a coefficient of friction $f$ with the commutator surface, comprising a roller arranged to exert pressure upon the free end of said brush, said roller having a coefficient of friction $f_2$ with respect to the free end of said brush represented by the lower of the values obtained by the formulae

$$f_2<\frac{W}{2h} \text{ and } f_2<\frac{rf}{r+h}$$

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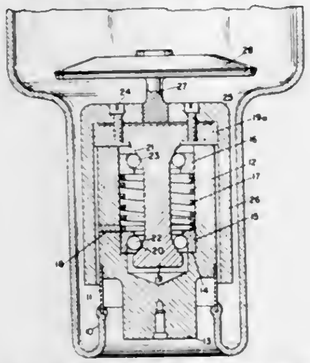
**2,648,024**
**HEAT RETAINING MEANS FOR HYDROGEN THYRATRON**
**Max L. Yeater, Boulder, Colo., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application February 20, 1946, Serial No. 649,091**
**6 Claims. (Cl. 313—47)**



4. An electron tube of the hydrogen thyratron type comprising, an envelope, said envelope being filled with hydrogen at a predetermined pressure, a heat source within said envelope, and an insulating coating surrounding said envelope, the heat retention properties of said coating being selected so as to maintain said envelope at a temperature below the softening point of said envelope at which adsorption of hydrogen by said envelope is a minimum during normal operation of said tube.

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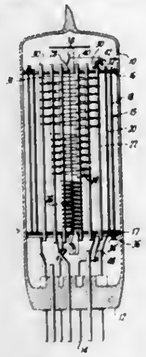
**2,648,025**
**ELECTRON DISCHARGE DEVICE**
**George J. Agule, Stamford, Conn., assignor to Machlett Laboratories, Incorporated, Springdale, Conn., a corporation of Connecticut**
**Application April 1, 1950, Serial No. 153,371**
**13 Claims. (Cl. 313—60)**



1. An electron tube having an evacuated envelope and a rotatable electrode therein, the mounting for the rotatable electrode including an inner shaft having thereon inner ball bearing raceways including surfaces which slope relatively to the axis of rotation and are oppositely disposed and are wide spaced from one another relative to the diameters of the balls, outer ball races, sets of balls retained between the inner and outer race members which balls are forced up the inner raceway slopes by axial compression between said inner and outer race members, and supporting means preventing radial displacement of said outer races.

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**2,648,026**
**SHIELD STRUCTURE AND FILAMENT MOUNT FOR ELECTRON DISCHARGE DEVICES**
**Donald R. Kerstetter, Emporium, Pa., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts**
**Application September 12, 1950, Serial No. 184,398**
**7 Claims. (Cl. 313—241)**

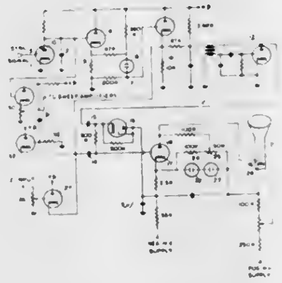


1. An electron discharge device having, within an evacuated envelope, a mount including an anode, a filamentary cathode and a number of interposed grids, a shield plate at one end of said mount, an aperture in said shield plate, a bracket secured to said shield plate alongside said aperture and said cathode being connected at one end to said bracket.



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**2,648,027**
**BEAM-INTENSITY CONTROLLING CIRCUIT FOR CATHODE-RAY OSCILLOGRAPH**
**William A. Geohegan, Brooklyn, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware**
**Application September 4, 1951, Serial No. 244,941**
**1 Claim. (Cl. 315—22)**

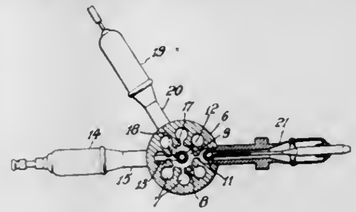


In a beam intensity controlling circuit for an oscillograph including a cathode ray tube having a control grid, a cathode and a plurality of anodes, a thermionic tube connected to generate a sawtooth wave, a source of signals connected thereto, a first cathode follower stage having a cathode resistor, said cathode follower stage being connected to the output of said sawtooth generator tube, a glow tube connected in parallel with said cathode resistor to provide a source of negative gate pulses, a source of positive potential, a thermionic tube connected as a free-running oscillator, a second cathode follower stage connected in series between said source of positive potential and said free-running oscillator tube to modulate the output thereof, said source of negative gate pulses being connected to the input of said second cathode follower stage, a rectifier, an amplifier circuit connected between said rectifier and said control grid, a source of high negative potential connected to said rectifier and said amplifier circuit, said rectifier being capacitively coupled to said oscillator tube to isolate said oscillator from said source of high negative potential.

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**2,648,028**
**MAGNETRON**
**John Turton Randall, Birmingham, and Henry Albert Howard Boot, London, England, assignors to English Electric Valve Company, Limited, a company of Great Britain and Northern Ireland**
**Application September 17, 1947, Serial No. 774,596**
**In Great Britain August 22, 1941**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires August 22, 1961**
**15 Claims. (Cl. 315—40)**

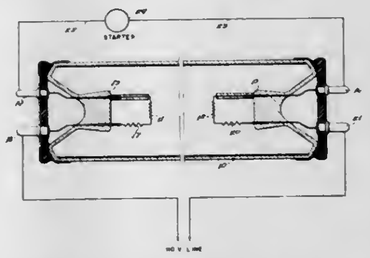
8. In a magnetron, an anode block defining a main cylindrical cavity and a plurality of at least three resonator cavities separately opening into the main cavity, a secondary emission type of cathode located in the main cavity and along the axis thereof, the openings from the resonator cavities into the main cavity all intersecting a single plane that is perpendicular to the axis of and passes through said cathode, means for establishing the main magnetic field for the magnetron comprising means for setting up a strong magnetic field parallel to the axis of said



main cavity, a source of potential for charging the anode positively with respect to the cathode, means adjacent the cathode for starting secondary emission by bombardment of the cathode by electrons, said magnetic field and said potential being of such magnitudes as to cause the electrons in the space between the cathode and anode to move in curved paths and such that some of the electrons in that space will move toward the cathode and bombard the latter.

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**2,648,029**
**SELF-BALLASTING GASEOUS DISCHARGE LAMP**
**Walter J. Dremann, North Warren, and Robert E. Dunham, Warren, Pa., assignors to Sun Ray Electric, Inc., Warren, Pa., a corporation of Delaware**
**Application December 16, 1949, Serial No. 133,455**
**2 Claims. (Cl. 315—52)**

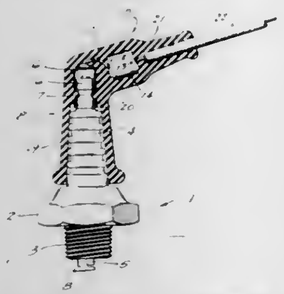


1. A fluorescent lamp comprising an elongated tubular envelope, a gaseous atmosphere in said tubular envelope, a filamentary electron emitting cathode at each end of the device within the envelope, a resistor connected in series with each filamentary cathode, each resistor being positioned within the envelope adjacent its respective cathode, a pair of polarized terminal pins at each end of the envelope, the respective cathodes being directly connected to pins of one type and the resistors to pins of the other type, said lamp being adapted to insertion in a pair of polarized receptacles so that during an initial starting period the circuit extends through said cathodes and resistors in series and subsequently to the initial period the circuit extends through one of said resistors and its associated cathode, and thence through the arc discharge path to the end of the opposite resistor furthest removed

from the associated cathode, said resistors having a potential drop per unit of length less than the breakdown potential of the gaseous atmosphere per unit of length, said resistors being alternately in series with the discharge path and serving to limit the current through the lamp.

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**2,648,030**
**SEALED CONDENSER AND SHIELD FOR SPARK PLUGS**
**Elmer C. Kiekhaefer, Cedarburg, Wis.**
**Application April 23, 1951, Serial No. 222,446**
**3 Claims. (Cl. 315—227)**



1. The combination in a device of the class described, which comprises a terminal fitting, a small-capacity sealed condenser unit, a flexible electrical conductor connecting said fitting and one terminal plate of said condenser, a lead wire connected to the other terminal plate of said condenser, an insulator covering said lead wire, and a solid elastic dielectric material embracing said terminal fitting and the end of said insulator covering and embedding said condenser and conductor therebetween and including a sleeve extending from the open end of said terminal and adapted to receive and cover the upper end of an engine spark plug and to support said condenser, said elastic dielectric material being of resilient material to protect said condenser against damage and breakdown by rough handling and engine vibration.

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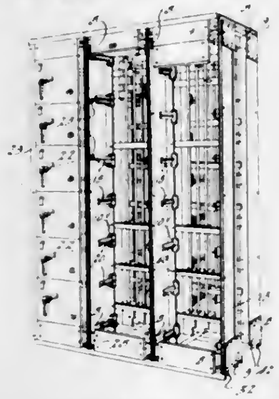
**2,648,031**
**INTERMEDIATE FREQUENCY TRANSFORMER ASSEMBLY**
**Robert A. Lang, Camillus, and Robert M. Savasky, Syracuse, N. Y., assignors to General Electric Company, a corporation of New York**
**Application July 17, 1951, Serial No. 237,162**
**1 Claim. (Cl. 317—101)**



In a coil assembly, an insulating coil support member having a keyway at one end thereof, a fixed-capacitor base unit comprising an insulating plastic housing member having a bottom portion and sidewall portions, said bottom portion including a centrally disposed tapered aperture having a key portion adapted to engage said keyway of said coil support member, a fixed capacitor fitting within said housing and including a centrally disposed aperture, contact terminal members engaging said capacitor and a plastic cover member securing said capacitor within said housing member and having a centrally disposed aperture admitting said support member, said cover member being fused with said sidewalls at the respective edges thereof.

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**2,648,032**
**CONTROL CENTER**
**Earl F. Mekelburg, Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan**
**Application September 21, 1950, Serial No. 186,089**
**14 Claims. (Cl. 317—117)**



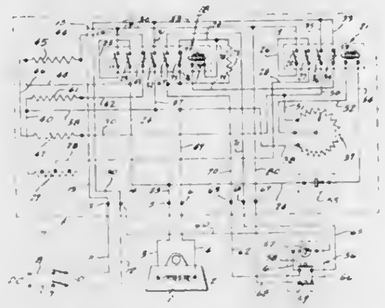
1. In a supporting structure for electrical circuit controlling instrumentalities, spaced vertical side walls extending rearwardly from the front of said structure and having inwardly extending flanges at the rear thereof, a plurality of vertically spaced brackets mounted by said flanges and extending forwardly thereof, a plurality of vertically disposed conducting means for carrying electrical energy to said instrumentalities, insulating means mounted to said flanges and extending rearwardly thereof for rigidly maintaining said last mentioned means in position, a plurality of circuit control units mounted between said side walls in superimposed relation and rigidly supported from said flanges, said brackets serving to support said units for sliding movement into and out of the space between said side walls when the units are disconnected from said flanges.

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**2,648,033**
**MAGNET CONTROL**
**William John Hudson, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application September 24, 1951, Serial No. 248,014**
**9 Claims. (Cl. 317—153)**

1. In a control circuit for an inductive electromagnet a bridge network comprising a pair of terminals for connection to the coil of the inductive electromagnet to be controlled to form a first bridge arm, a set of three circuit impedances joined to one another and said first bridge arm serially to form a four armed bridge loop with junctions interposed between the arms to provide a pair of diagonally opposite input junctions and a pair of diagonally opposite reference junctions, and a responsive bridge arm including an unidirectional current valve and a control relay means having a coil connected serially between said pair of diagonally opposite reference junctions, said relay means having coil controlled normally open contacts; an energizing circuit comprising switch means and current entry and current exit leads joining said pair of magnet terminals through said switch means when closed to a direct current source of predetermined polarity, said leads being oriented with respect to the polarity of said source and said current

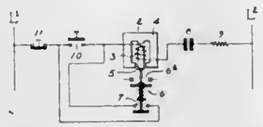




valve to render the latter non-conductive in relation to the potential imposed through said switch means by said source and conductive with respect to self-induced potential generated in said first bridge arm upon opening of said switch means; and a deenergizing circuit including said control relay means contacts joining the input junctions of said bridge network to said direct current potential source to apply a potential of reversed polarity to said first bridge arm when said relay means contacts are closed by excitation resulting from self-induced voltage in said first bridge arm.

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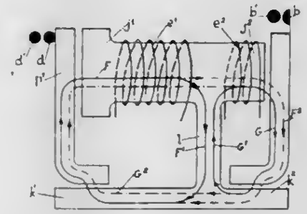
**2,648,034**
**ALTERNATING CURRENT ELECTROMAGNET**
**John F. H. Douglas, Milwaukee, and Clarence T. Evans, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware**
**Application April 2, 1948, Serial No. 18,578**
**4 Claims. (Cl. 317—156)**



1. The method of modifying the pull characteristic of an electromagnet having an armature movable between an open position and a closed position, and a coil energized from a source of alternating voltage, which method may be practiced without modifying the magnetic pull on the armature in closed position and which consists in including capacitance in series with the coil to increase relative to the magnetic pull on the armature in closed position the magnetic pull on the armature throughout an intermediate portion of its range of motion and in coordinating with the coil and the capacitance series resistance of such value that the magnetic pull on the armature in open position is not increased relative to the magnetc pull thereon in closed position.

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**2,648,035**
**COMBINED VOLTAGE REGULATOR AND SELF-CLOSING CIRCUIT BREAKER**
**Pierre Cibié, Paris, France**
**Original application March 25, 1947, Serial No. 737,165. Divided and this application July 27, 1950, Serial No. 183,561. In France March 29, 1939**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires March 29, 1959**
**5 Claims. (Cl. 317—157)**



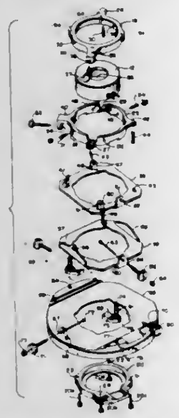
1. A magnetic relay, for use in a combined voltage regulator and self-closing circuit breaker with sensitive reverse current characteristics, adapted to be connected in a circuit having a generator of varying potential and indeterminate power flow, comprising, in combination, a substantially H-shaped magnetic member having a first leg forming part of said H-shaped member and having a first end portion, an intermediate portion, and a second end portion, a second leg forming part of said H-shaped member and having a first end portion, an intermediate portion arranged oppositely to said intermediate portion of said first leg, and a second end portion, and a middle leg forming part of said H-shaped member and connecting said intermediate portions with each other; a single potential sensitive coil arranged on said first end portion of said first leg to generate magnetic flux in a given direction and adapted to be connected in shunt to the generator; and a single current coil adapted to be connected in series in the circuit and arranged on said second end portion of said first leg to generate flux in said direction when current flows through said single current coil from the generator to a load.

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**2,648,036**
**ADJUSTABLE FOCUSING COIL**
**Cecil E. Walton, Cleveland, Ohio, assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application March 12, 1946, Serial No. 653,909**
**13 Claims. (Cl. 317—200)**

1. In combination, a focusing coil for a cathode ray tube or similar device, a pair of gimbal rings, means securing said coil within one of said gimbal rings, a pair of sliding plates, means permitting said pair of gimbal rings to tilt with respect to said pair of sliding plates, means for controlling the amount of said tilt, a fixed plate,

means for permitting said sliding plate to move laterally with respect to said fixed plate, and



means for controlling the amount of said lateral movement.

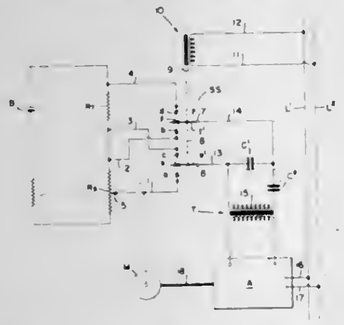
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2,648,037

## MEASURING APPARATUS

Thomas R. Harrison, Wyncote, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application February 18, 1950, Serial No. 144,918
3 Claims. (Cl. 318—28)



1. Measuring apparatus, comprising a variable resistor having end terminals and adapted to have the resistance therebetween varied in accordance with variations in the value of a condition, a comparison resistor having end terminals, conductor means connected to said end terminals and connecting said resistors in series with each other between a pair of energizing terminals adapted to be connected to a source of direct current energizing voltage, whereby the same current is caused to flow through and produce voltage drops across both of said resistors, a contact adjustable along said comparison resistor, a pair of output conductors, a switching means connected between said resistors and said output conductors and operative to connect the end terminals of said variable resistor to said output conductors during periods which alternate with others in which said switching means is operative to connect one of the end terminals and the contact of said comparison resistor to said output conductors, said switching means thereby being operative to apply alternately to said output conductors the voltage drop across said variable resistor and the voltage drop between said one end terminal and said contact of said comparison resistor, and alternating current voltage responsive means having an input portion connected between said output conductors, having an output means mechanically connected to said contact, and operative to adjust the latter along said comparison resistor in accordance with the difference between said voltage drops as necessary to equalize the latter and to adjust the resistance of said comparison resistor between said one end terminal and the contact thereof into equality with the resistance between the end terminals of said variable resistor.

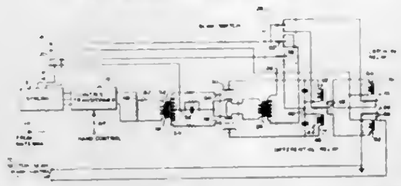
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2,648,038

## ANTENNA SECTOR SCAN CONTROL

Ted B. Morse, Evanston, Ill., and John F. Yeager, Cochituate, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application May 3, 1946, Serial No. 666,882
8 Claims. (Cl. 318—30)



1. In a motor driven scanning antenna system including means for reversing the drive of said motor in response to a change in signal applied thereto, an electrical system for causing said antenna to oscillate through a predetermined arc comprising, a synchro transmitter unit and a control transformer electrically coupled at their respective stator windings, said synchro unit having its rotor mechanically coupled to said antenna so as to rotate in synchronism therewith, means coupled to said control transformer for positioning the rotor thereof at a predetermined angle with respect to the stator of said control transformer to select a reference point on said scanning arc, a differential relay having first and second coils, first and second phase-sensitive detectors electrically coupling the rotor of said control transformer to said first and second coils respectively, the relative amplitudes of the signals applied to said first and second coils of said relay being a function of the phase and amplitude of the signal at the rotor of said control transformer, said relay being adapted to complete a first circuit when the unbalance of signals applied to said two coils reaches a predetermined magnitude in a first direction and to complete a second circuit when said unbalance in signals reaches a predetermined magnitude in the opposite direction and means coupled to said relay and said drive reversing means for reversing the direction of said drive upon the completion of either circuit by said relay.

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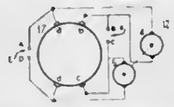
2,648,039

## POWER SYSTEM FOR A PLURALITY OF MOTORS

Joseph Maximus Pestarini, New York, N. Y.

Application August 29, 1947, Serial No. 771,295
1 Claim. (Cl. 318—140)

A power system for at least one pair of motors adapted to rotate at the same speed, comprising a pair of independent sources of current, a dynamo electric machine of the metadyne type comprising an armature provided with a set of diametrically opposed brushes and a second set of diametrically opposed brushes, said brush sets being displaced relative to each other, each of



said brush sets being connected to one of said sources of current, one of said motors being connected to a brush in each of said sets of brushes, the other of said motors being connected to the other brush in each of said sets of brushes, said interconnected brushes being adapted to induce the same electromotive force therebetween.



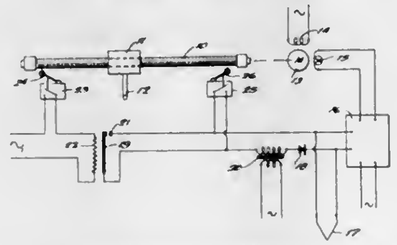
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2,648,040

## REVERSIBLE MOTOR CONTROL SYSTEM

Elmer Schneider, Chicago, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application February 8, 1951, Serial No. 209,987
8 Claims. (Cl. 318—286)



1. An electrical controlling instrument comprising a carriage movable between positions corresponding to opposite ends of a scale, means including a reversible electric motor to move the carriage, an instrument responsive to voltages applied thereto to control the direction and extent of movement of the motor, means normally to supply a controlling voltage to the instrument, switch means mounted adjacent one of the end positions of the carriage to be engaged and operated by the carriage when it is in said position, and a bias circuit energized by operation of the switch means and connected to the instrument to apply a bias voltage to the instrument such as to cause the motor to move the carriage toward its other end position.

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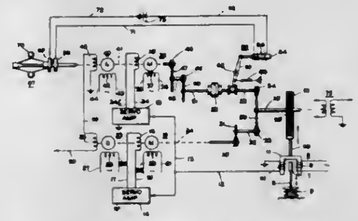
2,648,041

## ALTITUDE SENSOR

Cories M. Perkins, Rutherford, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 28, 1950, Serial No. 197,991
14 Claims. (Cl. 318—481)

1. Apparatus for determining the rate of change of altitude of a high speed aircraft adapted for traversing a wide range of altitude levels, comprising means having a wall movable in one direction in response to craft ascent and movable in another direction in response to craft descent, normally balanced means which, when unbalanced, develop a signal corresponding to the amount of its unbalance, said wall being adapted to unbalance said normally balanced means, a pair of driving means operative by said signal, common means connecting said driving means to re-balance said normally balanced means when the latter is unbalanced, means driven by one of said driving means for developing a signal corresponding to the rate of operation of the last-named driving means,



means responsive to a predetermined rate of wall movement for making the first driving means inoperative over the re-balancing means, said second driving means assuming primary control of said re-balancing means, and means driven by the second driving means for developing a rate signal corresponding to the speed of operation of said second driving means.

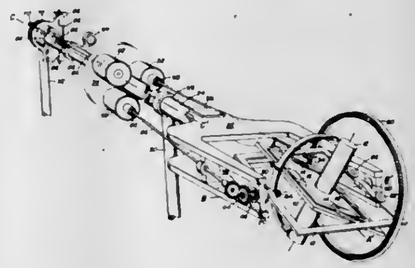
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2,648,042

## ORIENTATION SYSTEM

Norman E. Klein, Garden City, and Jay W. Wright, Manhasset, N. Y., assignors to the United States of America as represented by the Secretary of the Navy

Application July 6, 1944, Serial No. 543,696
1 Claim. (Cl. 318—489)

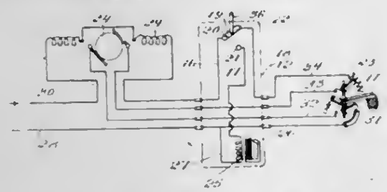


In an orientation system for maintaining a plane substantially normal to a relatively uniform magnetic field: a gimbal suspension supporting said plane for rotation about inner and outer gimbal axes; means supporting said gimbal suspension for rotation about a third axis substantially perpendicular to said outer gimbal axis; drive means for rotating said plane about said inner and outer axis; means sensitive to changes in the direction of said magnetic field in respect to said plane for controlling said drive means; drive means for rotating said gimbal suspension about said third axis; and control means for said last-mentioned drive means comprising means mounted on said plane for producing a first local magnetic field, means fixed in respect to said inner gimbal axis for sampling said first local magnetic field, means fixed in respect to said third axis for producing a second local magnetic field, means rotatable

with said third axis for sampling said second local magnetic field, and means utilizing the algebraic sum of the outputs of said sampling means for controlling said last-mentioned drive means.

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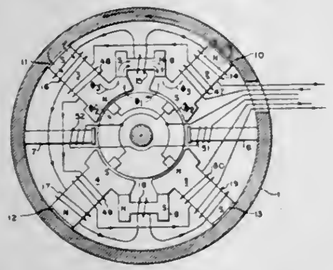
**2,648,043**
**PATIENT CONTROLLED ELECTRIC MOTOR FOR DENTAL UNITS**
**Max F. Grögl and Arnold Roe, Barranquilla, Colombia**
**Application April 20, 1950, Serial No. 157,142**
**1 Claim. (Cl. 318—551)**



In a dental unit, a vertically disposed dental post, a button actuated hand switch adapted to be held in a patient's hand while the dentist is working on the patient, a foot control switch adapted to be operated by the dentist, a signal unit, a cable including a pair of lines for supplying current from a source of supply to a dental tool, a cable extending between said hand switch and signal unit and including three wires, a terminal connected to each of said wires, an arm pivotally connected to one of said terminals and mounted for movement into and out of contact with the other of said terminals, a manually operable button for actuating said arm, said foot control switch including a rheostat and a motor having an armature and fields connected to said rheostat, and a casing arranged contiguous to the lower end of said dental post for supporting the signal device therein whereby the patient can manually depress the button to actuate the signal device and notify the dentist and simultaneously break the circuit leading to the dental tool, said casing being electrically and mechanically detachably interposed between said post and foot control switch.

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**2,648,044**
**VOLTAGE REGULATING GENERATOR**
**Lawrence G. Opel, Akron, and William R. Harding, East Aurora, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 13, 1948, Serial No. 54,244**
**18 Claims. (Cl. 322—59)**



1. In a system of control in combination, a dynamo-electric machine having a frame, a pair of adjacently disposed poles, an armature structure and armature winding thereon, a heel element on one pole, a generally similarly shaped toe element on the other pole to thus be disposed adjacent the heel element on the first pole, a magnetic shunt bridging said two elements, a generator, an armature winding for said generator, a field winding for said generator, a coil on each of said poles and a coil on the shunt, said coils being connected in series with each other and with the armature winding of said generator, shims between the poles and the frame to provide a relatively high reluctance gap between the poles and the frame, the transverse dimensions of the poles being such that a given current in the coils and field winding ,saturates the magnetic shunt but falls considerably short of saturating the poles, whereby a decrease of the current in said coils causes a voltage to be produced in the armature winding of said dynamo-electric machine that increases with a decrease of the current in said coils, and circuit means for connecting the field winding of said generator to the armature winding of said dynamo-electric machine.

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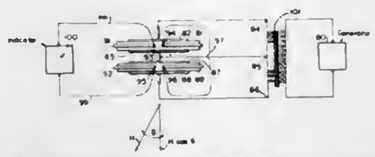
**2,648,045**
**POWER TRANSMISSION**
**Leland C. Weathers, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan**
**Application March 22, 1948, Serial No. 16,240**
**12 Claims. (Cl. 323—47)**



11. A control system comprising, in combination a load circuit, a voltage adjuster for the load circuit, an electric motor for operating the voltage adjuster, a remote transmitter, a control circuit connecting the motor, the voltage adjuster and the transmitter to cause the motor to operate the voltage adjuster under the combined control of the voltage adjuster and the transmitter, and load responsive means for affecting the motor in response to changes of load.

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**2,648,046**
**PIEZOELECTRIC MAGNETOMETER**
**Richard A. Wallauschek, L'Etang-la-Ville, France**
**Application September 14, 1950, Serial No. 184,748**
**In France September 27, 1949**
**5 Claims. (Cl. 324—43)**

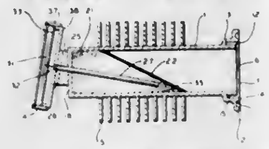


1. A piezo-electric magnetometer comprising an A. C. generator, two piezo-electric crystals supported with their principal sections parallel and with their electric axes substantially opposite to each other, two excitation electrodes arranged on each of the crystals, a coil of one or more turns affixed to each of the crystals in a plane parallel to the principal sections of the crystals, means to apply an A. C. voltage to the excitation electrodes of the two crystals in series, and an indicator connected to the two coils in series, the connections of the coils and indicator being such that the voltage induced in the coils when the crystals are excited aid each other.



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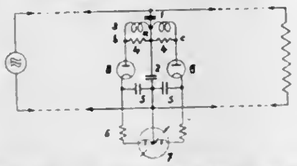
**2,648,047**
**WAVE GUIDE CALORIMETER WATTMETER**
**Lowell M. Hollingsworth, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy**
**Application August 4, 1945, Serial No. 608,959**
**2 Claims. (Cl. 324—95)**



1. A radio frequency wattmeter comprising, a section of rectangular wave guide open at one end and closed at the other end, an electrical load comprising, a composition of dry semi-conductive material positioned at the closed end of said section and maintained in position by a sheet of dielectric material secured transversely of said guide, said sheet of dielectric being inclined toward said open end and lying in a plane parallel to the electric component of waves flowing into said wave guide section, and a thermometer extending through an opening in the closed end of said wave guide section into said load for measuring the temperature thereof.

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**2,648,048**
**WATTMETER FOR ELECTRIC HIGH-FREQUENCY CURRENTS**
**Jiří Vackář, Prague, Czechoslovakia, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia**
**Application September 14, 1948, Serial No. 49,251**
**In Czechoslovakia September 23, 1947**
**1 Claim. (Cl. 324—119)**



A wattmeter for high frequency power measurements comprising, in combination, a capacity voltage divided connected across the line to be measured; a symmetrical current transformer having its mid-point connected to the mid-point of said voltage divider and having equal winding sections arranged on each side of said voltage divider to derive from the line a pair of voltages in substantially phase opposition to each other; said divider including a condenser coupling said transformer to the line; a pair of resistive shunts each connected across a winding section, each of said shunts being connected to the mid-point of said voltage divider; a pair of linear electronic valve rectifiers each in circuit with a winding section and operable to rectify the voltage thereacross; an indicator including torque producing means responsive to the squares of the currents derived from said rectifiers; and a resistance-capacity network for applying the rectified voltages to said torque producing means; the inductance ($L_3$) of each winding section, the capacity ($C_2$) of the coupling condenser of the voltage divider, the resistance ($R_4$) of each resistive shunt, and the resistance ($R_5$) of each network resistance having a relation expressed as follows:

$$4L_3 = C_2R_4R_5$$

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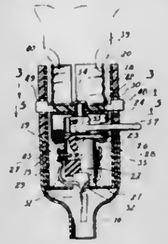
**ERRATUM**

For Class 333—Subclasses 7, 9, 12, 71, and 82 see:

Patent Nos. 2,647,947 through 2,647,953 inclusive

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**2,648,049**
**ELECTRIC LAMP SOCKET**
**George D. Brayman, Ashtabula, Ohio, and Eric K. Lotthammer, Jamaica, N. Y.; said Lotthammer assignor to said Brayman**
**Application January 5, 1951, Serial No. 204,524**
**1 Claim. (Cl. 339—73)**



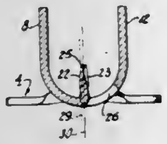
An electric lamp holder comprising an outer casing structure, a central body mounted within said outer casing structure, said central body having a radially extending top flange, an insulating switch box mounted on said top flange, grommet means extending through said insulating switch box and said flange, a terminal connected to said grommet below the flange and a terminal connected to said grommet above the flange and extending upwardly within the switch box, a central electrode extending from said central structure and through said switch box, a connector engaging said central electrode and extending laterally within the switch box, a grommet securing said conductor to the flange and a depending terminal extending from said grommet beneath the flange of the central body, socket parts respectively pivoted to said switch box adapted to be separated to receive and retain a lamp bulb, spring means urging said socket parts toward one another, a contact connected to the top of said switch box and depending thereinto, and a cam plate supported on the top of said switch box and engageable with said socket elements to separate the same against the action of the spring means.

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**2,648,050**
**ELECTRICAL CONNECTOR HAVING INSULATING PIERCING BARBS**
**Quentin Berg, New Cumberland, Pa.**
**Application February 4, 1950, Serial No. 142,511**
**6 Claims. (Cl. 339—97)**

1. An electrical connector comprising a ferrule-forming portion and a plurality of insula-

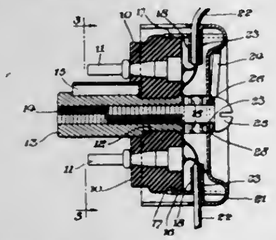
tion-piercing prongs formed integrally with said ferrule-forming portion and extending inwardly thereof, said ferrule-forming portion having an opening adjacent each said prong from which the material forming the respective prong has



been bent away, the tip of each prong being positioned directly over a portion of said ferrule beyond the end of its adjacent opening, the tips of said prongs being displaced transversely from each other with respect to the longitudinal axis of said ferrule-forming portion.

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**2,648,051**
**BATTERY TERMINAL CONNECTOR**
**Edward A. Sprigg, East Orange, N. J., assignor to Breeze Corporations, Inc., Newark, N. J., a corporation of New Jersey**
**Application December 16, 1950, Serial No. 201,170**
**1 Claim. (Cl. 339—103)**



A connector for a plurality of wires comprising, a dielectric base, a plurality of contact pins carried within said base adapted to receive a wire, a conductive ring on one end of the base, said ring having wire admitting openings in the wall thereof and inwardly disposed tabs projecting from the bottom of said openings, a shell member adapted to be slid upon the base so as to overlie the ring member, wire admitting openings in the wall of said shell member, inwardly disposed horizontal tabs adjacent said shell openings and locking means receivable within the base to hold the shell member to the said base.

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**2,648,052**
**APPARATUS FOR CONNECTING PORTABLE TELEPHONES TO LINES IN THE FIELD**
**Roy G. Graham and Oscar F. Tallman, St. Louis, Mo., assignors to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri**
**Application August 14, 1948, Serial No. 44,244**
**2 Claims. (Cl. 339—109)**

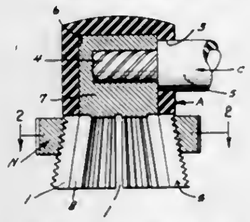
1. An apparatus for connecting a portable telephone set into a telephone system comprising a head member formed of electrical conductive material and provided with a telephone line engaging terminal, tubular means by which said head member is supported, a sheave disposed for rotation within a cavity formed in a portion of said head member and supported by said head member, an electrical conductor arranged within said tubular means in the form of an elongated loop and passing over said sheave, a ring formed of electrical conductive material and arranged within said tubular means to which an end portion of said electrical conductor is connected, a second telephone line engaging terminal connected to the opposite end of said electrical conductor, coil spring means which tends to resist shortening of said elongated loop of said electrical conductor when said electrical conductor is drawn outwardly from said tubular means, a block having a sheave which rides at the bottom



of said elongated loop of said electrical conductor and to which an end portion of said coil spring means is connected, means for anchoring the opposite end portion of said spring means within said tubular means, and a second electrical conductor which is in the form of a two conductor cable, one conductor of which is connected to said head member and the other conductor of which is connected to said ring and said conductors of said cable being adapted to be connected to a portable telephone set.

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**2,648,053**
**BATTERY CONNECTOR**
**Herbert E. Rutherford, Paterson, N. J.**
**Original application August 19, 1947, Serial No. 769,505, now Patent No. 2,531,162, dated November 21, 1950. Divided and this application July 9, 1948, Serial No. 37,915**
**1 Claim. (Cl. 339—149)**



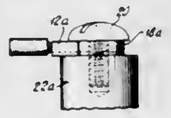
A battery terminal connector for an insulated cable having an end portion of its conductor bared, comprising a hollow body of an insulation material open at its lower end and molded to provide a cylindrical top part and a flared annular lower part, a metal body formed to provide an upper solid cylindrical portion embedded within said cylindrical part and a flared annular lower portion disposed in contact with the inner side of said flared part, said flared part and said flared portion being split longitudinally at identically spaced points about the same, said upper portion having a bore opening through its side and in line with an opening formed in the side of said top part, the bared end of said cable



being tight fitted in said bore and the adjacent end of the insulation thereof being fitted in said opening, the inner faces of the split portions of said flared portion being serrated for the effective gripping engagement with the terminal of a battery, said flared part being exteriorly screw threaded, a T-shaped lug formed on the outer side of each of the split portions of said flared portion embedded in the complemental of the split portions of said flared part, and a nut screw-threaded on said flared part to compress the split portions of the same and the like portions of said flared portion into tight engagement with the battery terminal, upper solid portion being entirely surrounded and covered by said hollow body of insulation material.

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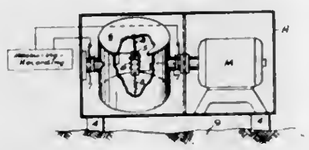
**2,648,054**
**ELECTRICAL CONNECTOR OF THE EYELET TYPE**
**Quentin Berg, New Cumberland, Pa., assignor to Aircraft-Marine Products, Inc., Harrisburg, Pa.**
**Application February 26, 1948, Serial No. 11,082**
**7 Claims. (Cl. 339—276).**



1. In a terminal binding post combination, a closed wire surrounding ferrule, a tongue contiguous with said ferrule and having a hole therein, an abutment extending upwardly from said tongue to a point at least as high as a plane tangent to the top of said ferrule, a fastening engaging in said hole having a portion thereof clamping said abutment and extending substantially over said ferrule.

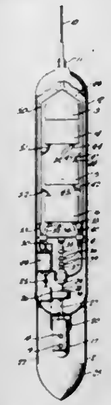
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**2,648,055**
**APPARATUS FOR DETECTING AND RECORDING MEASUREMENTS OF SEISMIC, GRAVITATIONAL, AND OTHER FORCES**
**Neal J. Smith and Roberta I. Smith, New Orleans, La.**
**Application July 11, 1951, Serial No. 236,201**
**15 Claims. (Cl. 340—17)**



1. A device of the class described for the detection and measurement of external forces, comprising at least one inertia-type sensing couple having a sensitivity to external forces which varies in relation to the direction of action of said forces upon said couple, power means for rotating said sensing couple about an axis inclined to the axis of maximum sensitivity of said couple, and means for indicating variations in the output of said couple during rotation thereof by said power means, the output of said couple thus measuring the response of said couple to said forces as modified by the variable directional sensitivity caused by the rotational speed of said couple.

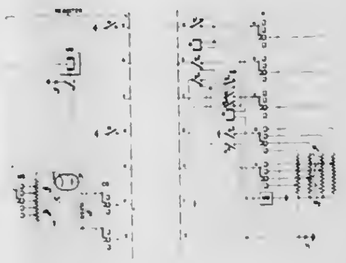
**2,648,056**
**WELL LOGGING METHOD AND APPARATUS**
**John Jay Jakosky, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California**
**Application November 1, 1948, Serial No. 57,732**
**15 Claims. (Cl. 340—18)**



1. A method for measuring subsurface openings containing fluids of variable sonic velocities which comprises suspending an impulse emitter and a sound sensitive receiver into said opening, emitting sonic impulses of short duration and constant frequency from said emitter, receiving echoes of said impulses reflected from subsurface reflectors in said sound sensitive receiver, simultaneously reflecting impulses from a reflector spaced a known distance from said emitter to determine the sonic velocity in the ambient fluid and measuring the time elapsing between respective sonic impulses and their echoes as a measure of the subsurface opening.

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**2,648,057**
**CIRCUIT FOR OBTAINING ELECTRIC BRIDGE EQUILIBRIUM**
**Roelof M. M. Oberman, The Hague, Netherlands**
**Application November 4, 1950, Serial No. 194,103**
**In the Netherlands July 16, 1946**
**7 Claims. (Cl. 340—172)**



1. A circuit for telecommunication systems comprising in combination, a rotary switch; a wiper forming part of said switch; a contact bank forming part of said switch and cooperating with said wiper; a first D. C. voltage source and a resistance connected in series to said contact bank; a zero switch arranged remote from said rotary switch; means for connecting one side of said zero switch to said wiper; means for sup-

plying a number of marking voltages to the other side of said zero switch; said supplying means including a voltage follower including in series connection a second D. C. voltage source, an electron tube, and output resistances; and a wire pair connected to said first D. C. voltage source, one wire of said pair being connected to the grid of said tube and the other wire of said pair being connected to a point of said follower outside said tube.

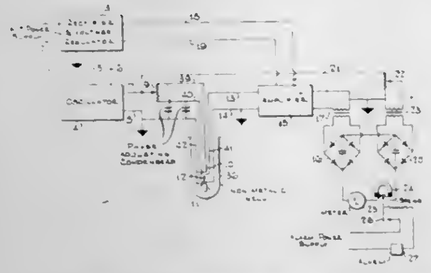
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**2,648,058**

## LIQUID LEVEL INDICATING DEVICE

**Harry B. Breedlove, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware**

**Application May 17, 1951, Serial No. 226,805**
**3 Claims. (Cl. 340—199)**



1. Apparatus for detecting variation of level of liquids in a container vessel therefor, comprising a hollow casing member suspended within said vessel and sealed from communication therewith, a pair of inductance coil elements extended into said casing member disposed in spaced relation longitudinally of said casing, said elements each connected in an electric circuit to produce a magnetic field about each coil of substantially balanced strength substantially 180° out of phase, a third coil, interposed between said pair of coils within said magnetic fields, connected in a circuit adapted to transmit an induced current in said third coil upon variation of the strength of one of said magnetic fields and means for registering said induced current.

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**2,648,059**

## ELECTRICAL INDICATING MEANS

**Gerald W. Hostetler, Dearborn, Mich., assignor to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada**

**Application August 25, 1949, Serial No. 112,228**
**2 Claims. (Cl. 340—252)**



1. In a unitized beam and turn signal indicator for motor vehicles having turn signals and high-beam headlights, a single indicating lamp, a first circuit for energizing said lamp and energizable as a consequence of the energization of said turn signals, said circuit including means rendered operable as a consequence of said first circuit becoming energized to flash said lamp between a highly brilliant condition and a less brilliant condition, a second circuit for said lamp energizable as a consequence of the energization of said high-beam lights, said second circuit upon energization being operable to burn said lamp at an intermediate brilliance.

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**2,648,060**

## CODED IMPULSE RESPONSIVE SECRET SIGNALING SYSTEM

**Edwin E. Turner, Jr., West Roxbury, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company, a corporation of Delaware**

**Original application September 29, 1945, Serial No. 619,335, now Patent No. 2,559,905, dated July 10, 1951. Divided and this application March 13, 1948, Serial No. 14,779**
**3 Claims. (Cl. 343—6.5)**



1. System of signaling comprising means at a first location for transmitting a group of chronologically spaced wave energy impulses representative of a first coded signal, means at a second location for receiving a signal which may include random wave energy pulses in addition to said impulses while maintaining their chronological spaced relationships, means responsive to the simultaneous presence of all of said impulses in said receiving means for producing a code-responsive signal, means responsive to the presence of said random wave energy pulses in said receiving means to produce a second signal, means employing said second signal to prevent operation of said code-responsive signal, means at said second location responsive to said code-responsive signal for transmitting a second group of chronologically-spaced wave energy impulses representative of a second coded signal different from the first coded signal, means at said first location for receiving a signal which may include extraneous wave energy pulses interspersed among said second coded signal impulses in addition to said impulses, indicator means responsive only to the simultaneous presence in said first location receiving means of all said second coded signal impulses, means responsive to the presence in said first location receiving means of said extraneous pulses to produce an extraneous pulse signal, and means to apply said extraneous pulse signal to said indicator means to prevent the operation thereof.

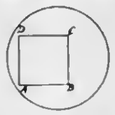


**2,648,061**

## CATHODE-RAY TUBE DISPLAY SYSTEM

**Eric Parker, Peter R. Wallis, and Alexander Woroncow, Haslemere, England, assignors to National Research Development Corporation, London, England, a corporation of Great Britain and Northern Ireland**

**Application December 29, 1947, Serial No. 794,208**
**In Great Britain March 30, 1946**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires March 30, 1966**
**25 Claims. (Cl. 343—7.9)**



1. In apparatus of the class described for producing a cathode ray tube display, the combination of a cathode ray tube having deflecting elements and a luminescent screen, sweep circuits for producing three simultaneous independent time-base sweep voltages each as a function of a respective variable and including a bearing scan sweep generator, an elevation scan sweep generator and a range scan sweep generator, control circuits interconnecting said generators and said deflecting elements for applying the sweep voltages of said generators to said deflecting elements, and magnitude adjusting means in the control circuits so adjusting the magnitude of the components of the three sweep voltages applied to the deflecting elements as to cause the trace on the luminescent screen to simulate the perspective representation of three mutually perpendicular coordinates on the luminescent screen.

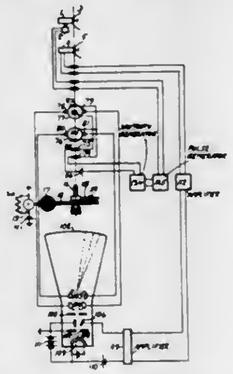
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**2,648,062**

## SYSTEM AND MEANS FOR DETERMINATION OF DISTANCE AND DIRECTION

**Helge Fabian Rost, Djursholm, and Per Harry Elias Claesson, Jakobsberg, Sweden**

**Application January 6, 1950, Serial No. 137,074**
**In Sweden February 26, 1948**
**6 Claims. (Cl. 343—11)**



1. A system for the determination of directions and distances to objects in space comprising, in combination, means for transmitting and receiving pulse modulated radio waves, highly directional antenna means for the transmission of said waves in a certain direction and for the reception of reflected waves from about the same direction as the transmitted waves, a support, a rotatable shaft on said support, said antenna means being mounted on said shaft, means to rotate said shaft at a predetermined rate, pulse generating means coupled to the transmitting and receiving means and comprising a saw-tooth generator and a pulse generator, circuit means interconnecting said generators with each other for maintaining their outputs in predetermined fixed phase relationship, means of indication comprising a ray indicating screen and a ray emitting source for the emission of rays projectable as visible light spots on said screen, deviation means including deflecting means for moving said ray radially, and control means coupled to the receiving means for the control of the intensity of the ray, and synchronizing means coupled to the movable parts of the antenna means and to said saw-tooth generator and to the said deviation means for rotating the ray synchronously with the directional antenna means and for deviating the ray in fixed angular relationship with respect to the direction of the antenna means, whereby a pulse is transmitted simultaneously as the ray leaves its normal position in the direction of a reflecting object, and a light spot is produced on the screen at a distance from its normal position proportional to the distance to said reflecting object upon the receipt of a reflected wave.



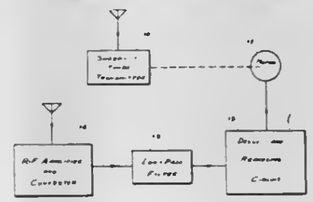
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**2,648,063**

## TRANSCEIVER SYSTEM

**Otto H. Schmitt, Mineola, N. Y., assignor to the United States of America as represented by the Secretary of the Navy**

**Application August 1, 1946, Serial No. 687,656**
**5 Claims. (Cl. 343—179)**

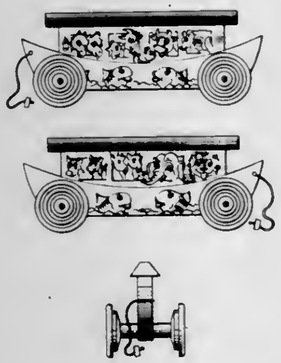


2. In combination, a tunable transmitter for transmitting high-frequency radiant energy signals and including an adjustable frequency-controlling element, a reversible motor normally operable continuously to adjust said frequency-controlling element, thereby normally to vary the operating frequency of said tunable transmitter over a relatively wide band of frequency values, a receiver arranged to receive signals from a distant transmitter and simultaneously to receive a portion of the output of said tunable transmitter and for converting said signals into intermediate-frequency signals having frequency values variable in accordance with the variation in frequency of said tunable transmitter relative the frequency of said distant transmitter, filter means connected to pass intermediate-frequency signals below a predetermined frequency value, and means responsive to an output signal from said filter for reversing the direction of rotation of said motor.

# DESIGNS

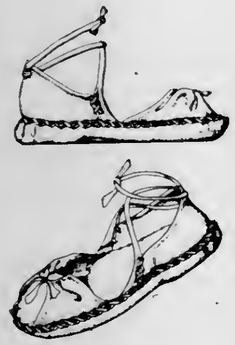
AUGUST 4, 1953

**170,106**
**WHEELED TOY**
**Harold D. Allen, East Hampton, Conn.**
**Application April 20, 1953, Serial No. 24,588**
**Term of patent 14 years**
**(Cl. D34—15)**



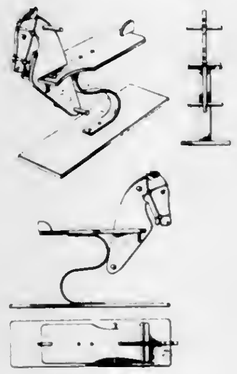
The ornamental design for a wheeled toy, substantially as shown.

**170,107**
**SANDAL**
**Nina Baroumes, Juneau, Territory of Alaska**
**Application February 20, 1953, Serial No. 23,716**
**Term of patent 3½ years**
**(Cl. D7—7)**



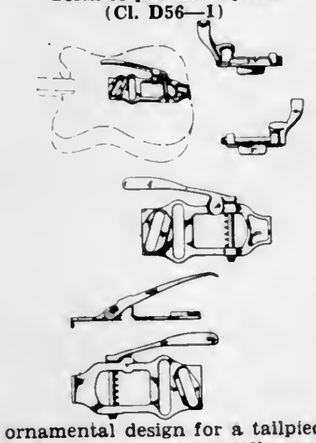
The ornamental design for a sandal, as shown.

**170,108**
**HOBBYHORSE**
**Charlie A. Batten, College Park, Md.**
**Application March 6, 1953, Serial No. 23,940**
**Term of patent 14 years**
**(Cl. D34—15)**



The ornamental design for a hobbyhorse, as shown and described.

**170,109**
**TAILPIECE VIBRATO FOR STRING INSTRUMENT**
**Paul A. Bigsby, Downey, Calif.**
**Application March 3, 1953, Serial No. 23,867**
**Term of patent 14 years**
**(Cl. D56—1)**

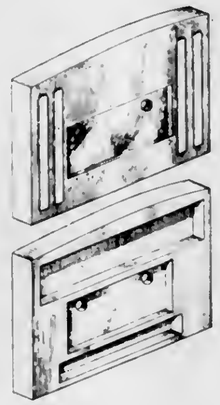


The ornamental design for a tailpiece vibrato for string instrument, substantially as shown and described.





**170,110**
**HEADSTONE**
**Forrest L. Cantrall, Benecia, Calif.**
**Application December 20, 1952, Serial No. 22,801**
**Term of patent 3½ years**
**(Cl. D79—2)**



The ornamental design for a headstone, as shown.

**170,111**
**RECEPTACLE**
**James E. Cheneweth, National City, Calif.**
**Application March 16, 1953, Serial No. 24,051**
**Term of patent 14 years**
**(Cl. D44—1)**



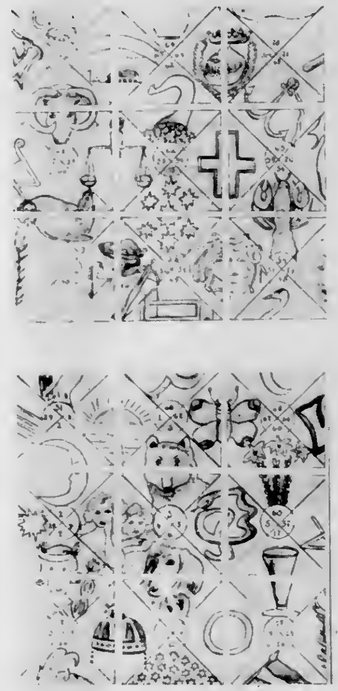
The ornamental design for a receptacle, as shown.

**170,112**
**BASE FOR TABLE LAMPS**
**Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois**
**Application February 25, 1953, Serial No. 23,793**
**Term of patent 7 years**
**(Cl. D48—20)**

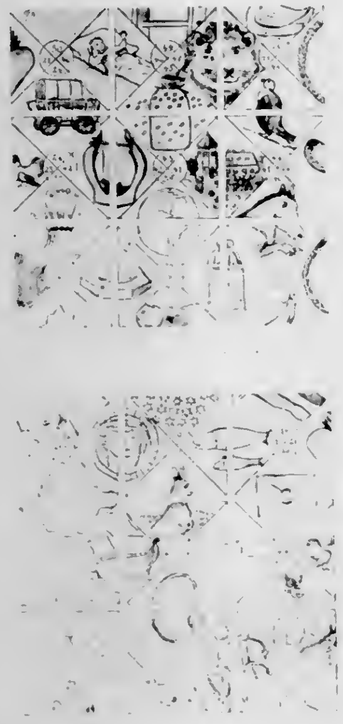


The ornamental design for a base for table lamps, as shown.

**170,113**
**PUZZLE**
**George de Sibrik and Ilona de Sibrik, Washington, D. C.**
**Application September 4, 1952, Serial No. 21,333**
**Term of patent 7 years**
**(Cl. D34—15)**

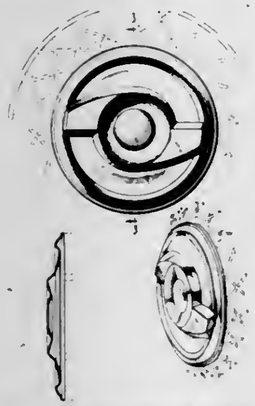


170,113—Continued



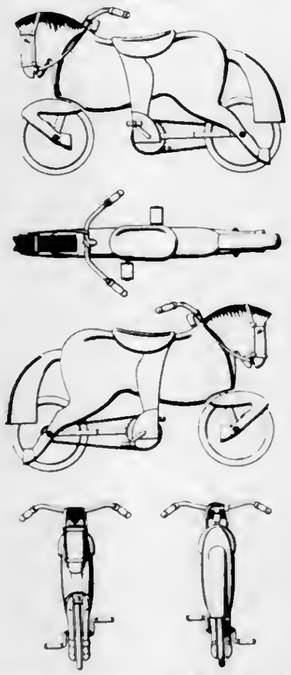
The ornamental design for a puzzle, as shown and described.

170,114
HUBCAP
Richard E. Dieterich, Long Beach, Ind.
Application March 3, 1953, Serial No. 23,869
Term of patent 14 years
(Cl. D14—30)



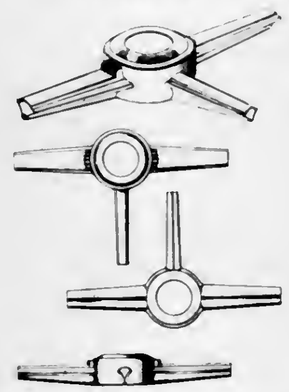
The ornamental design for a hubcap, as shown and described.

170,115
BICYCLE
Nettie M. Essary, Big Spring, Tex.
Application November 19, 1952, Serial No. 22,370
Term of patent 7 years
(Cl. D90—8)



The ornamental design for a bicycle, as shown.

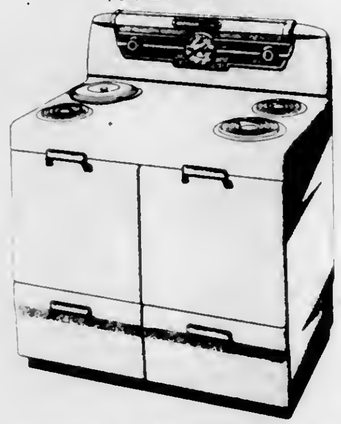
170,116
SPOKE AND HUB COVER FOR AUTOMOBILE STEERING WHEELS
Hinch G. Gilliam, Kingsport, Tenn.
Application March 9, 1953, Serial No. 23,954
Term of patent 14 years
(Cl. D14—30)



The ornamental design for a spoke and hub cover for automobile steering wheels, substantially as shown.

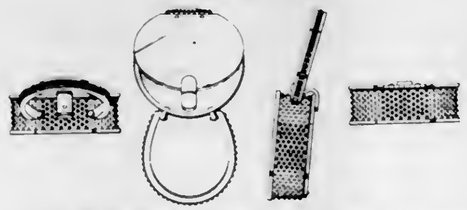


170,117
ELECTRIC RANGE
Folke M. Gustafson, Toledo, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application December 20, 1952, Serial No. 22,802
Term of patent 14 years
(Cl. D81—4)



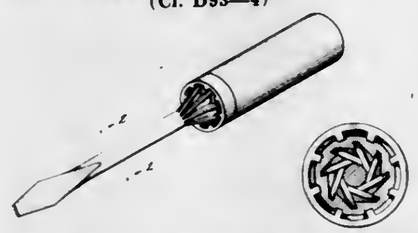
The ornamental design for an electric range, as shown and described.

170,118
HANDBAG
William H. Hardy, River Edge, N. J.
Application November 29, 1952, Serial No. 22,500
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown.

170,119
COMBINATION SCREW DRIVER AND REAMER
William D. Hull, Chicago, Ill.
Application October 31, 1952, Serial No. 22,080
Term of patent 14 years
(Cl. D93—4)



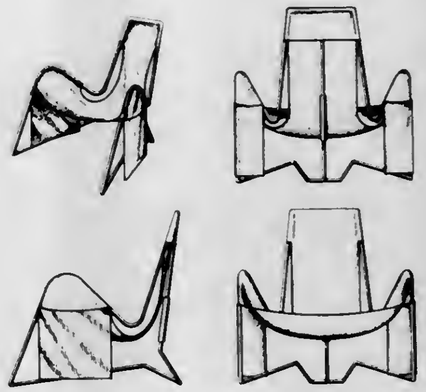
The ornamental design for a combination screw driver and reamer, substantially as shown.

170,120
CRIBBAGE BOARD
Siegfried Gordon Isserstedt, Toronto, Ontario, Canada
Application January 9, 1952, Serial No. 17,969
In Canada November 24, 1951
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a cribbage board, substantially as shown.

170,121
CHAIR
Harlan C. Jackson, New York, N. Y.
Application February 27, 1953, Serial No. 23,823
Term of patent 7 years
(Cl. D15—8)



The ornamental design for a chair, substantially as shown.

170,122
**CONVERTIBLE OTTOMAN OR SIMILAR ARTICLE**
Poul Frederik Wiberg Jörgensen, Esbjerg, Denmark
Application March 4, 1953, Serial No. 23,884
In Denmark June 20, 1950
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a convertible ottoman or similar article, substantially as shown.

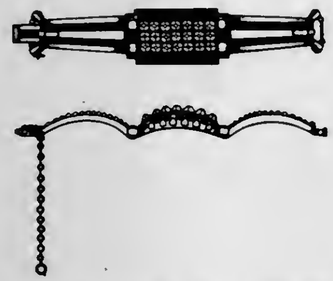
170,123
**BRACELET OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,896
Term of patent 7 years
(Cl. D45—4)





The ornamental design for a bracelet or the like, substantially as shown.

170,124
**BRACELET OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,899
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

170,125
**BRACELET OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,900
Term of patent 7 years
(Cl. D45—4)





The ornamental design for a bracelet or the like, substantially as shown.

170,126
**LINK CHAIN FOR A BRACELET OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,901
Term of patent 7 years
(Cl. D45—4)





The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,127
**LINK CHAIN FOR A BRACELET OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application March 4, 1953, Serial No. 23,902
Term of patent 7 years
(Cl. D45—4)

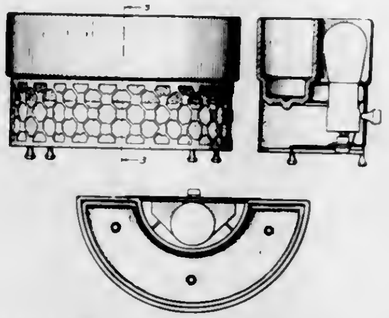




The ornamental design for a link chain for a bracelet or the like, substantially as shown.

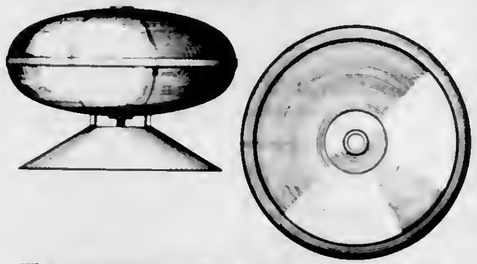


170,128
**COMBINATION LAMP AND PLANTER OR SIMILAR ARTICLE**
Filmore Charles Levy, Altadena, Calif.
Application September 29, 1952, Serial No. 21,635
Term of patent 14 years
(Cl. D48—20)



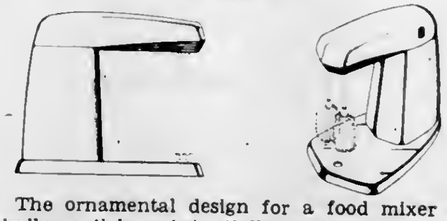
The ornamental design for a combination lamp and planter or similar article, as shown.

170,129
**COMBINED EXTINGUISHANT TANK AND HEAT COLLECTOR FOR PORTABLE FIRE EXTINGUISHERS**
Peter Lim, Los Angeles, Calif.
Application January 30, 1952, Serial No. 18,301
Term of patent 14 years
(Cl. D16—2)



The ornamental design for a combined extinguishant tank and heat collector for portable fire extinguishers, as shown.

170,130
**FOOD MIXER OR SIMILAR ARTICLE**
Walter E. Moore, Belnor, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application March 15, 1952, Serial No. 18,924
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a food mixer or similar article, substantially as shown and described.

170,131
**LINK CHAIN FOR A BRACELET OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,076
Term of patent 7 years
(Cl. D45—4)





The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,132
**LINK CHAIN FOR A BRACELET OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,077
Term of patent 7 years
(Cl. D45—4)

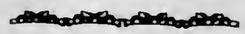




The ornamental design for a link chain for a bracelet or the like, substantially as shown.

170,133
**LINK CHAIN FOR A NECKLACE OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,078
Term of patent 7 years
(Cl. D45—16)





The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,134
**LINK CHAIN FOR A NECKLACE OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,079
Term of patent 7 years
(Cl. D45—16)





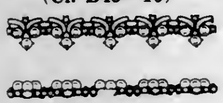
The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,135
**LINK CHAIN FOR A NECKLACE OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,080
Term of patent 7 years
(Cl. D45—16)



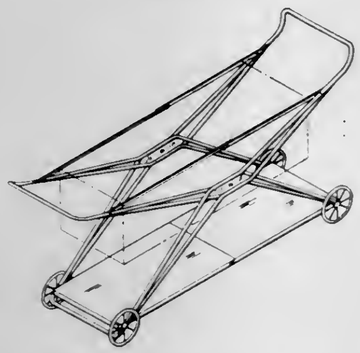
The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,136
**LINK CHAIN FOR A NECKLACE OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application March 18, 1953, Serial No. 24,081
Term of patent 7 years
(Cl. D45—16)



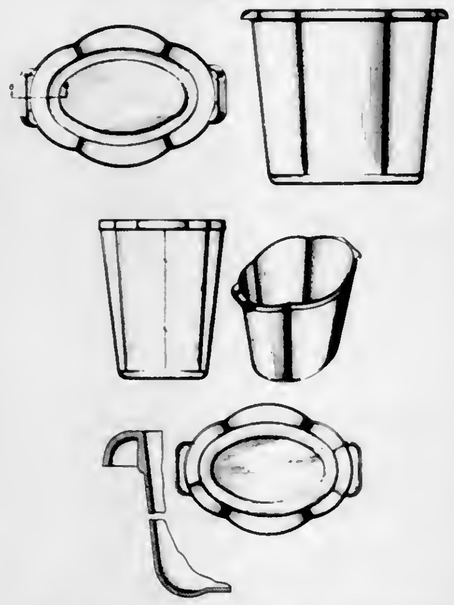
The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,137
**HAND CART**
Phyllis M. Rogers, Port Credit, Ontario, Canada
Application September 19, 1952, Serial No. 21,528
Term of patent 3½ years
(Cl. D14—3)



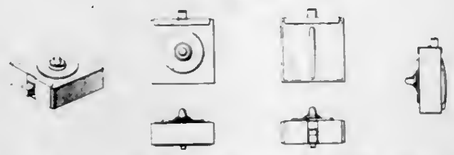
The ornamental design for a hand cart, as shown and described.

170,138
**WASTEBASKET OR SIMILAR ARTICLE**
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application January 24, 1952, Serial No. 18,189
Term of patent 14 years
(Cl. D58—17)



The ornamental design for a wastebasket or similar article, substantially as shown.

170,139
**PURSE LIGHT**
Alexander Ross, Flushing, N. Y.
Application February 25, 1953, Serial No. 23,780
Term of patent 14 years
(Cl. D48—20)



The ornamental design for a purse light, as shown.

August 11, 1953 Volume 673 Number 2

# Official Gazette

## UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

## Condition of Applications Under Examination at Close of Business July 24, 1953

Total number of patent applications awaiting action, 99,697. Date of oldest new application, October 14, 1952; date of oldest amended application, October 8, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| •(C. E. D.) KEELY, J. E. | | | |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 10-15-52 | 10-13-52 | 1475 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 11-10-52 | 10-15-52 | 1217 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 12-3-52 | 12-3-52 | 1875 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 11-4-52 | 11-4-52 | 1469 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates. | 11-10-52 | 11-10-52 | 971 |
| 6. SURLE, H., Carbon Chemistry (part) | 10-25-52 | 10-8-52 | 2663 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 11-12-52 | 11-12-52 | 1628 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 11-18-52 | 11-17-52 | 1574 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 11-1-52 | 11-1-52 | 1219 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 12-2-52 | 11-25-52 | 1317 |
| 11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 10-30-52 | 11-1-52 | 1146 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 11-3-52 | 11-2-52 | 1194 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 10-18-52 | 10-17-52 | 1237 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 11-12-52 | 11-12-52 | 1465 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 10-24-52 | 10-24-52 | 1670 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 10-24-52 | 10-24-52 | 1719 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 11-4-52 | 11-3-52 | 1525 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 11-13-52 | 11-8-52 | 714 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 10-28-52 | 10-30-52 | 1183 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 11-26-52 | 11-26-52 | 1253 |
| 21. MADER, R. C., Textiles | 10-25-52 | 10-25-52 | 1390 |
| 22. MARLAND, M. L., Aeronautics; Boats, Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 11-17-52 | 11-17-52 | 1039 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 10-28-52 | 10-25-52 | 878 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 12-23-52 | 12-26-52 | 982 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 10-24-52 | 10-24-52 | 1330 |
| 26. YOUNO, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 11-25-52 | 11-24-52 | 1872 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 10-27-52 | 10-30-52 | 1215 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 12-4-52 | 12-1-52 | 1087 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 10-30-52 | 10-27-52 | 1119 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 1-2-53 | 1-2-53 | 1310 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 10-24 52 | 10-24-52 | 2452 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-15-52 | 11-20-52 | 1210 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 11-4-52 | 11-3-52 | 1864 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 10-28-52 | 10-27-52 | 1301 |
| 35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles | 12-15-52 | 12-10-52 | 1185 |
| 36. McFADYEN, A. D., Measuring and Testing | 11-18-52 | 11-13-52 | 1097 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 11-26-52 | 11-21-52 | 1664 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 11-18-52 | 11-6-52 | 1541 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 12-29-52 | 1-2-53 | 1616 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 2-2-53 | 2-3-53 | 957 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | 11-22-52 | 11-20-52 | 1543 |

•Commissioner's Examiners' Division.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 10-25-52 | 10-30-52 | 1996 |
| 43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-23-52 | 10-27-52 | 1820 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 11-18-52 | 11-18-52 | 1372 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Budding Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 10-24-52 | 10-24-52 | 1123 |
| 47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 10-31-52 | 10-31-52 | 1576 |
| 48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems ;Electric Igniters; Card and Picture Exhibiting. | 10-25-52 | 10-23-52 | 2029 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 11-15-52 | 11-12-52 | 1403 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 1-6-53 | 1-15-53 | 1593 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 11-6-52 | 11-1-52 | 1614 |
| 52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 12-12-52 | 12-5-52 | 1871 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 11-22-52 | 12-2-52 | 975 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications. | 11-6-52 | 10-31-52 | 1811 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 11-21-52 | 11-19-52 | 993 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 12-12-52 | 12-4-52 | 1264 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 11-10-52 | 11-12-52 | 1724 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons. | 10-31-52 | 10-27-52 | 1372 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 11-24-52 | 11-19-52 | 1382 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 11-26-52 | 11-28-52 | 943 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 12-2-52 | 12-2-52 | 1180 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 10-28-52 | 10-27-52 | 1905 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 11-1-52 | 10-30-52 | 1773 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316). | | | |
| 66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales | 11-13-52 | 11-29-52 | 811 |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 12-4-52 | 11-15-52 | 1666 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 12-18-52 | 12-15-52 | 1420 |
| 69. CALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 11-6-52 | 11-1-52 | 1716 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 10-14-52 | 10-14-52 | 3418 |
| DESIGNS: A—BREHM, G. L., Industrial Arts | 3-26-53 | 4-2-53 | 914 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 3-26-53 | 3-30-53 | 867 |

Number of new applications received week ending July 3, 1953

PATENTS 1,550 DESIGNS 114 REISSUES 5 TOTAL 1,669

Total number of trade-mark applications awaiting action (including renewals and republications), 10,892. Date of oldest new application, February 24, 1953; date of oldest amended application, March 2, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action: New | Amended | Applications awaiting action |
|---|---|---|---|
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 3-2-53 | 3-2-53 | 2752 |
| II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 2-24-53 | 3-2-53 | 2651 |
| Renewals (All Classes) | 5-22-53 | 6-24-53 | 454 |
| Republications (All Classes) | 5-27-53 | 6-10-53 | 223 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 3-11-53 | 3-15-53 | 2479 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 3-12-53 | 3-4-53 | 2333 |

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Medicinal preparation. Serial No. 642,118, Aug. 11. Class 18.

Abbott Laboratories, North Chicago, Ill. Line of injectable mineral salt, alcohol, and glucose solutions. Serial No. 642,252, Aug. 11. Class 18.

Advertising Publications, Incorporated, Chicago, Ill. Periodical publications. Serial No. 643,527, Aug. 11. Class 38.

Adweyt Company, Chicago, Ill. Oral lipid emulsion. Serial No. 642,925, Aug. 11. Class 18.

Aerosmith, Inc., Miami, Fla. Locking socket. Serial No. 641,591, Aug. 11. Class 13.

Affiliated Retailers, Inc., New York, N. Y. Bathroom scales. Serial No. 614,680, Aug. 11. Class 26.

Alexander-Kins, Inc., New York, N. Y. Dolls. Serial No. 646,343, Aug. 11. Class 22.

Allied Laboratories, Inc., Kansas City, Mo. Serum. Serial No. 639,303, Aug. 11. Class 18.

Allied Van Lines, Inc., Broadview, Ill. Storage and packing of household goods, etc. Serial No. 638,625, Aug. 11. Class 105.

American Bildrok Company, Chicago, Ill. Mineral body of porous, cellular, finely-divided, inert, sponge-like material for conditioning the soil. Serial No. 643,663, Aug. 11. Class 10.

American Distilling Company, The, doing business as Willow Springs Distilling Company, New York, N. Y. Vodka. Serial No. 642,591, Aug. 11. Class 48.

American Ferment Co., Inc., New York, N. Y. Analgesic preparation. Serial No. 642,593, Aug. 11. Class 18.

American Lithofold Corporation, St. Louis, Mo. Printed forms. Serial No. 641,418, Aug. 11. Class 37.

Ann-Ette of Hollywood: *See*—
Nehamen, Seymour.

Arizona Chemical Company, New York, N. Y. Tall oil fatty acid. Serial No. 638,683, Aug. 11. Class 6.

Armour and Company, Chicago, Ill. Granules containing liver, iron, and folic acid. Serial No. 609,774, Aug. 11. Class 18.

Armour and Company, Chicago, Ill. Isonicotinic acid hydrazide. Serial No. 638,939, Aug. 11. Class 18.

Armour and Company, Chicago, Ill. Pharmaceutical preparation. Serial No. 638,943, Aug. 11. Class 18.

Armour and Company, Chicago, Ill. Thyrotropic hormone preparation. Serial No. 638,944, Aug. 11. Class 18.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Ingredients comprising a silica aggregate and a sodium silicate solution. Serial No. 630,112, Aug. 11. Class 12.

Atlas Supply Company, Newark, N. J. Rubber tires. Serial No. 645,945, Aug. 11. Class 35.

Austin Laboratories, Inc., Buffalo, N. Y. Tablets combining various sulfa drugs with streptomycin. Serial No. 629,414, Aug. 11. Class 18.

Azoplate Corporation, Summit, N. J. Pre-sensitized plates. Serial No. 640,141, Aug. 11. Class 26.

Bachmann Uxbridge Worsted Corporation, Uxbridge, Mass. Men's and women's suits and overcoats, women's dresses. Serial No. 640,778, Aug. 11. Class 39.

Bankers Life Company, Des Moines, Iowa. Underwriting of accident and sickness insurance. Serial No. 638,468, Aug. 11. Class 102.

Barbey Packing Corporation, Astoria, Oreg. Fresh, frozen and canned fish; and canned shad roe. Serial No. 646,046, Aug. 11. Class 46.

Bardco Manufacturing & Sales Company, Los Angeles, Calif. Gates and valves and parts thereof. Serial No. 632,822, Aug. 11. Class 13.

Bar-Gar Mineral Plastic Products Co., Inc., Sioux Falls, S. Dak. Blast furnace blocks, foundation blocks for buildings, blocks for bridge abutments, etc. Serial No. 625,321, Aug. 11. Class 12.

Bastian-Blessing Company, The, Chicago, Ill. Equipment for welding, cutting, brazing, etc. Serial Nos. 549,872–3, Aug. 11. Class 34.

Bastian-Blessing Company, The, Chicago, Ill. Equipment for welding, cutting, brazing, etc. Serial No. 564,014, Aug. 11. Class 34.

Bauer Chemical Company, Inc., The, Locust Valley, N. Y. Combination of benzoin, oil of eucalyptus, oil of pine needles, etc. Serial No. 638,120, Aug. 11. Class 18.

Beta Sigma Phi: *See*—
Ross, Walter W., and Company, Inc.

Beta Sigma Phi International: *See*—
Ross, Walter W., and Company, Inc.

Better Brands Food Products, New York, N. Y. Food emulsifier. Serial No. 640,323, Aug. 11. Class 46.

Bio-Gum Laboratories, Inc., Brooklyn, N. Y. Candy-coated chlorophyll chewing gum. Serial No. 630,874, Aug. 11. Class 46.

"Blanchard": *See*—
Parfums Blanchard.

Blood Grouping Laboratory of Boston, Inc., The, Boston, Mass. Blood grouping serums. Serial No. 635,869, Aug. 11. Class 18.

Boston Woven Hose and Rubber Company, Cambridge, Mass. Garden hose. Serial No. 645,773, Aug. 11. Class 35.

Bowers Printing Ink Company, Chicago, Ill. Printing and lithographing inks. Serial No. 625,843, Aug. 11. Class 11.

Bowlby, Byron J., doing business under the style name of Bowlby Candy Company, Appleton, Wis. Candies. Serial No. 614,397, Aug. 11. Class 46.

Bowlby Candy Company: *See*—
Bowlby, Byron J.

Breeze Corporations, Inc., Newark, N. J. Bellows. Serial No. 626,299, Aug. 11. Class 13.

Brookfield Engineering Laboratories, Inc., Stoughton, Mass. Instruments for indicating, recording, or controlling viscosity. Serial No. 615,267, Aug. 11. Class 26.

Bucyrus-Erie Company, South Milwaukee, Wis. Grab buckets, grapples, hydraulic equipment for operating buckets, etc. Serial No. 571,509, Aug. 11. Class 23.

Bullick Brothers, Ellsworth, Pa. Toy furniture. Serial No. 607,700, Aug. 11. Class 22.

Burrell Corporation, Pittsburgh, Pa. Catalyst heater for use with laboratory research apparatus. Serial No. 603,473, Aug. 11. Class 26.

Bymart, Inc., Dover, Del., and New York, N. Y., now by change of name Bymart-Tintair, Inc. Hair coloring preparations. Serial No. 617,909, Aug. 11. Class 51.

Bymart-Tintair, Inc.: *See*—
Bymart, Inc.

Canton Chaplet and Manufacturing Company, The, Canton, Ohio. Foundry shrinkage control elements. Serial No. 637,700, Aug. 11. Class 14.

Cardwell Westinghouse Company, Chicago, Ill. Railway friction draft gears. Serial No. 639,315, Aug. 11. Class 19.

Carpenter Steel Company, The, Reading, Pa. Steel. Serial No. 619,228, Aug. 11. Class 14.

Casimir Funk Laboratories, Inc., New York, N. Y. Preparation comprising in combination androgenic hormones with multivitamins, etc. Serial No. 641,906, Aug. 11. Class 18.

Casimir Funk Laboratories, Inc., New York, N. Y. Preparation comprising in combination a mixture of estrogenic and androgenic hormones with multivitamins, etc. Serial No. 641,907, Aug. 11. Class 18.

Casimir Funk Laboratories, Inc., New York, N. Y. Preparation comprising in combination estrogenic hormones with multivitamins, etc. Serial No. 641,908, Aug. 11. Class 18.

Chadwick, Earl L., doing business as Earl L. Chadwick Company, Portland, Oreg. Power-agitated machines for cleaning small parts, accessory tools, and combination shearing, trimming, and edging tools. Serial No. 633,712, Aug. 11. Class 23.

Chadwick, Earl L., Company: *See*—
Chadwick, Earl L.

Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis. Shirts, coats, jackets, etc. Serial No. 622,804, Aug. 11. Class 39.

Circuitron, Inc., Hoboken, N. J. Printed electrical and electronic circuits. Serial No. 643,075, Aug. 11. Class 21.

Cocanower, Clair D., Phoenix, Ariz. Playing cards. Serial No. 638,520, Aug. 11. Class 22.

Coleman Motors Corporation, The, Littleton, Colo. Motor driven tractor. Serial No. 620,461, Aug. 11. Class 23.

Colleary, Michael J., Ottawa, Ontario, Canada. Racing games. Serial No. 642,947, Aug. 11. Class 22.

Columbian Mutual Life Insurance Company, Binghamton, N. Y. Underwriting of life, health, and accident insurance. Serial No. 629,767, Aug. 11. Class 102.

Columbian Mutual Life Insurance Company, Binghamton N. Y. Underwriting of life, health, and accident insurance. Serial No. 645,550, Aug. 11. Class 102.

Costello, John H., St. Louis, Mo. Cottage cheese and frozen confection. Serial No. 629,721, Aug. 11. Class 46.

Crown Chemical Corporation, Providence, R. I. Chemical water repellent. Serial No. 634,075, Aug. 11. Class 6.

Cutter Laboratories, Berkeley, Calif. Parenteral solutions. Serial No. 627,498, Aug. 11. Class 18.

David & Sons: *See*—
Der Hairbedian, David.

Debevoise Company, The, Brooklyn, N. Y. Paints. Serial No. 636,120, Aug. 11. Class 16.

Deerfield Groves Company, Wabasso, Fla. Fresh citrus fruits. Serial No. 645,872, Aug. 11. Class 46.

Der Hairbedian, David, doing business under the firm name and style of David & Sons, Fresno, Calif. Nuts, raisins, and edible seeds. Serial No. 615,319, Aug. 11. Class 46

Dressen-Barnes Corporation, Pasadena, Calif. Electronically and magnetically regulated power supplies. Serial No. 636,559, Aug. 11. Class 21.
Eastern Rotorcraft Corporation, Neshaminy, Pa. Cargo securing devices. Serial No. 625,666, Aug. 11. Class 13.
Economy Filter Carrridge Company, Cleveland, Ohio. Vehicle oil filter media packs. Serial No. 641,769, Aug. 11. Class 31.
Elgin Softener Corporation, Elgin, Ill. Water softener regenerating units. Serial No. 634,838, Aug. 11. Class 31.
Esbeco Distilling Corporation, Stamford, Conn. Whiskey. Serial No. 570,548, Aug. 11. Class 49.
Fels, R. F., San Juan, P. R. Coconuts. Serial No. 645,406, Aug. 11. Class 46.
Filtrator Coffee Apparatus Co., Inc., New York, N. Y. Filter paper. Serial No. 623,831, Aug. 11. Class 31.
Flamingo Spring Water Company: *See*—
Flamingo Water Company.
Flamingo Water Company, also doing business as Flamingo Spring Water Company, New Smyrna Beach, Fla. Non-effervescent bottled mineral spring water. Serial No. 630,406, Aug. 11. Class 45.
Fleming & Sons, Inc., Dallas, Tex. Decorative panel boards. Serial No. 634,582, Aug. 11. Class 12.
Flintkote Company, The, New York, N. Y. Insulation board. Serial No. 639,218, Aug. 11. Class 12.
Foley & Company, Chicago, Ill. Diaper rash ointment. Serial No. 642,135, Aug. 11. Class 18.
Foote, D. E., & Co., Incoroprated, Baltimore, Md. Canned vegetables and vegetable juices and canned fruits and fruit juices, etc. Serial No. 633,840, Aug. 11. Class 46.
Fountain, Ed, Lumber Co., Los Angeles, Calif. Glued laminated lumber. Serial No. 636,974, Aug. 11. Class 12.
Fox, M. Ewing, Co., Inc., New York, N. Y. Rubber base paint. Serial No. 639,927, Aug. 11. Class 16.
Fraser, Sandy, Limited, Manchester, England. Scotch whisky. Serial No. 638,873, Aug. 11. Class 49.
Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparation. Serial No. 609,793, Aug. 11. Class 18.
Funk, James R., doing business as The Gem Gleam Company, Colorado Springs, Colo. Chemical preparation. Serial No. 642,405, Aug. 11. Class 6.
Gardner Displays Company, Pittsburgh, Pa. Designing, constructing, maintaining, and repairing displays for industrial exhibits. Serial No. 534,104, Aug. 11. Class 103.
Gas Material Supplies, Inc., West New York, N. J. Metal pipes, metal pipe couplings, and gas valves. Serial No. 638,256, Aug. 11. Class 13.
Gaymont Foods Co., Chicago, Ill. Specially processed powdered dietary supplement. Serial No. 630,490, Aug. 11. Class 46.
Gem Gleam Company, The: *See*—
Funk, James R.
General Electric Company, Schenectady, N. Y. Electrical sectional switchboards and the sections therefor. Serial No. 622,331, Aug. 11. Class 21.
General Paint Corporation, San Francisco, Calif. Industrial and automotive enamels. Serial No. 620,661, Aug. 11. Class 16.
Gerber Products Company, Freemont, Mich. Baby teething biscuits. Serial No. 643,217, Aug. 11. Class 46.
Germantown Manufacturing Company, Phl'adelphia, Pa. Ice cream stabilizer. Serial No. 645,301, Aug. 11. Class 46.
Gervais, Ch., Societe Anonyme, Paris, France. Cheese and milk products. Serial No. 636,586–7, Aug. 11. Class 46.
Gillette Company, The, doing business under the name and style of The Toni Company, Boston, Mass. Non-electrical hair curlers. Serial No. 640,624, Aug. 11. Class 40.
Glade Candy Co., Salt Lake City, Utah. Candy. Serial No. 645,984, Aug. 11. Class 46.
Glaser, Crandell Co., Chicago, Ill. Cucumber relish and cucumber slices. Serial No. 639,631, Aug. 11. Class 46.
Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Non-electrical hair curlers, barrettes, and combs. Serial No. 641,290, Aug. 11. Class 40.
Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Rubber-soled canvas shoes. Serial No. 632,083, Aug. 11. Class 39.
Hackett-Carlson Company, Saginaw, Mich. Automobile door safety locks. Serial No. 640,856, Aug. 11. Class 25.
Handley Brown Heater Company, Jackson, Mich. Pressure responsive automatic cut-off valves. Serial No. 631,926, Aug. 11. Class 13.
Harper, I. W., Distilling Company: *See*—
Schenley Distillers, Inc.
Heart of Ohio Candy Co., Columbus, Ohio. Candy. Serial No. 643,228, Aug. 11. Class 46.
Henry Valve Company, Melrose Park, Ill. Driers for dehydrating a circulating fluid—namely, a refrigerant fluid, etc. Serial No. 616,909, Aug. 11. Class 31.
Herold Manufacturing Co., not Inc., Chicago, Ill. Electric razors. Serial No. 632,249, Aug. 11. Class 23.
Heyden Chemical Corporation, New York, N. Y. Antibiotic mixtures. Serial No. 642,638, Aug. 11. Class 18.
Hoffco, Inc., Richmond, Ind. Power-operated sickle-bar mowing machines. Serial No. 586,412, Aug. 11. Class 23.
Horseshoes, Inc., New York, N. Y. Candy. Serial No. 642,077, Aug. 11. Class 46.
Hudson Motor Car Company, Detroit, Mich. Automobile heaters. Serial No. 647,293, Aug. 11. Class 19.
Hydra-Feed Machine Tool Corporation, The, Norwalk, Conn., formerly The Sparks Machine Tool Corporation. Heavy duty lathes. Serial No. 615,503, Aug. 11. Class 23.
Imperial Knife Company, Inc., Providence, R. I. Cutlery. Serial No. 629,165, Aug. 11. Class 23.
Industrial Condenser Corporation, Chicago, Ill. Electrical condensers or capacitors. Serial No. 621,065, Aug. 11. Class 21.
Industrial Electrical Works: *See*
Stahmer, Bernhardt.
Industrial Instrument Corp., Odessa, Tex. Pressure, recording and indicating gauges, controllers and meters and parts thereof. Serial No. 632,032, Aug. 11. Class 26.
Industrial Nucleonics Corporation, Columbus, Ohio. Industrial beta gauges. Serial No. 631,667, Aug. 11. Class 26.
International Business Machines Corporation, New York, N. Y. Ink-filled cartridges for writing pens. Serial No. 611,702, Aug. 11. Class 11.
International Minerals & Chemical Corporation, Chicago, Ill. Water soluble nitrogenous fraction of sugar beet juice, etc. Serial No. 631,391, Aug. 11. Class 18.
Ionics, Inc., San Francisco, Calif. Electrical apparatus and electrical units. Serial Nos. 622,213–14, Aug. 11. Class 21.
Ionics, Inc., San Francisco, Calif. Electrical apparatus and electrical units. Serial No. 632,033, Aug. 11. Class 21.
Joy Manufacturing Company, Pittsburgh, Pa. Electric lighting assemblies. Serial No. 647,253, Aug. 11. Class 21.
K. C. Buffet Supply, Kansas City, Mo. Steak sauce. Serial No. 628,633, Aug. 11. Class 46.
Katz, Jacobson & Paris, Inc., New York, N. Y. Textile fabrics. Serial No. 643,127, Aug. 11. Class 42.
Kaylon, Incorporated, New York, N. Y. Women's and girls' pajamas, pajama coats, beach coats, etc. Serial No. 627,822, Aug. 11. Class 39.
Kent, G. B., & Sons Limited, London, England. Combined massage and complexion brush. Serial No. 636,294, Aug. 11. Class 29.
Kiser, William J., doing business as Vulcancraft Fabricating Company, Birmingham, Ala. Following articles of iron, steel or other metals, ornamental railings, window grilles, etc. Serial No. 624,276, Aug. 11. Class 12.
Kontney Candy Co.: *See*—
Kontney, Fablan.
Kontney, Fablan, doing business as Kontney Candy Co., Green Bay, Wis. Candied popcorn confections. Serial No. 622,857, Aug. 11. Class 46.
Ladd Hosiery Mills, Inc., Reading, Pa. Ladies' hosiery. Serial No. 612,231, Aug. 11. Class 39.
Les Parfums de Dana, Inc., New York, N. Y. Perfume and cologne. Serial No. 634,140, Aug. 11. Class 51.
Levin, Albert I., trading as Little Charmer Blouse Co., Philadelphia, Pa. Children's and girls' blouses. Serial No. 564,999, Aug. 11. Class 39.
Little-Beaver Co., The, Baltimore, Md. Storm windows and storm doors. Serial No. 639,481, Aug. 11. Class 12.
Little Charmer Blouse Co.: *See*
Levin, Albert I.
London Character Shoes Corporation, New York, N. Y. Shoes. Serial No. 642,889, Aug. 11. Class 39.
Los Angeles Nut House, Los Angeles and Oakland, Calif. Peanut brittle candy. Serial No. 647,018, Aug. 11. Class 46.
MacDonald, Greenless Limited, Leith, Edinburgh, Scotland. Scotch whisky. Serial No. 633,313, Aug. 11. Class 49.
Maclachlan Hats, Incorporated, Norwalk, Conn. Men's fur felt hats. Serial No. 608,425, Aug. 11. Class 39.
Macy, R. H., & Co., Inc., New York, N. Y. Leather shoes, men's and boys' suits, outer shirts, and pajamas. Serial No. 546,227, Aug. 11. Class 39.
Magazine Publishers, Inc., Chicago, Ill. Comic magazines. Serial No. 643,496, Aug. 11. Class 38.
McGraw Electric Company, assignee: *See*—
Pennsylvania Transformer Company.
Mets, Keith, Grower and Shipper, Holtville, Calif. Fresh vegetables. Serial No. 625,740, Aug. 11. Class 46.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Sausages. Serial No. 643,697, Aug. 11. Class 46.
Millen, James, Manufacturing Company, Inc., Malden, Mass. Radio receivers; radio receiver accessories, radio transmitters and radio transmitter accessories. Serial No. 611,034, Aug. 11. Class 21.
Miller, Madalyn, Corporation, Los Angeles, Calif. Ladies' and misses' clothing. Serial No. 634,695, Aug. 11. Class 39.
Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. Serial No. 566,638, Aug. 11. Class 6.
Morgan, George T., doing business as Nu-Ay Pile Compound Co., Sharon, Pa. Medical preparation. Serial No. 618,905, Aug. 11. Class 18.



Munsingwear, Inc., Minneapolis, Minn. Women's hosiery. Serial No. 642,290, Aug. 11. Class 39.
National Association for Mental Health, Inc., The, New York, N. Y. Services relating to the improvement of mental health. Serial No. 640,351, Aug. 11. Class 100.
Nehamen, Seymour, doing business under the name Ann-Ette of Hollywood, Los Angeles, Calif. Women's and misses' maternity wearing apparel. Serial No. 614,630, Aug. 11. Class 39.
Nelson, Jimmy, Enterprises, Inc., Chicago, Ill. Ventriloquist dummies. Serial Nos. 639,436–7, Aug. 11. Class 22.
Neuschaefer, Helen, Inc., New York and College Point, N. Y. Nail polish remover preparation. Serial No. 638,308, Aug. 11. Class 51.
New York Herald Tribune Inc., New York, N. Y. Column heading. Serial No. 643,603, Aug. 11. Class 38.
New York Silicate Book Slate Co., Inc., New York, N. Y. Chalkboard. Serial No. 622,273, Aug. 11. Class 50.
New York Silicate Book Slate Co., Inc., New York, N. Y. Chalkboard. Serial No. 626,043, Aug. 11. Class 50.
Nielsen, Earl M., San Diego, Calif. Canned tuna fish. Serial No. 645,053, Aug. 11. Class 46.
Norotan, George, Company, Dinuba, Calif. Canned fruits, canned berries and fresh grapes. Serial No. 637,498, Aug. 11. Class 46.
November, Neil, Richmond, Va. Pasteboard boxes and cartons. Serial No. 615,787, Aug. 11. Class 2.
Nox-Rust Chemical Corporation, Chicago, Ill. Undercoating and sound-deadening material. Serial No. 627,145, Aug. 11. Class 12.
Nu-Ay Pile Compound Co.: *See*—
Morgan, George T.
Olson, Robert E., San Antonio, Tex. Metal surface treating compositions. Serial No. 638,309, Aug. 11. Class 6.
Osborne Company, The, Clifton, N. J. Wallets, billfolds, key holders, and portfolios. Serial No. 633,859, Aug. 11. Class 3.
Paragon-Revolute Corporation, Rochester, N. Y. Machines for exposing and developing white prints, brown-line prints, etc. Serial No. 642,988, Aug. 11. Class 26.
Paramount Paper Products Company, Omaha, Nebr. Labels. Serial No. 625,490, Aug. 11. Class 37.
Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial Nos. 639,708–9, Aug. 11. Class 38.
Parfums Blanchard, doing business as "Blanchard," New York, N. Y. Toilet water, cologne, perfume, etc. Serial No. 625,294, Aug. 11. Class 51.
Parke, Davis & Company, Detroit, Mich. Chemo-therapeutic agent. Serial No. 639,713, Aug. 11. Class 18.
Parke, Davis & Company, Detroit, Mich. Multiple antibiotic preparation. Serial No. 642,896, Aug. 11. Class 18.
Peerless Foundry Company, The, Indianapolis, Ind. Warm air furnaces, gas burners, oil burners, etc. Serial No. 626,904, Aug. 11. Class 34.
Penetred Corporation, Marshfield, Wis. Wire skid control coils. Serial No. 626,469, Aug. 11. Class 14.
Pennsylvania Transformer Company, Canonsburg, Pa., assignor to McGraw Electric Company. Distribution transformers. Serial No. 616,445, Aug. 11. Class 21.
Pentacon Corporation, New York, N. Y. Cameras. Serial No. 642,990, Aug. 11. Class 26.
Pest Control Limited, Bourn, Cambridge, England. Portable sprayers and power operated sprayers. Serial No. 622,455, Aug. 11. Class 23.
Philippine Air Lines, Inc., Manila, Philippines, Honolulu, Hawaii, San Francisco, Calif., New York, N. Y., Chicago, Ill., Los Angeles, Calif., and Washington, D. C. International air line transportation of passengers and cargo. Serial No. 640,523, Aug. 11. Class 105.
Piano Action & Key Corp., Memphis, Tenn. Piano actions. Serial No. 635,234, Aug. 11. Class 36.
Piggly Wiggly Corporation, Jacksonville, Fla. Coffee, tea, fresh eggs, etc. Serial No. 618,006, Aug. 11. Class 46.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Double glazed windows. Serial No. 640,754, Aug. 11. Class 12.
Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Penicillin-bacitracin troches. Serial No. 628,870, Aug. 11. Class 18.
Prismo Safety Corporation, Huntingdon, Pa. Highway marker coating material. Serial No. 595,280, Aug. 11. Class 16.
Purity Products Company, Mayville, Wis. Milk solids concentrated sold as a protein food additive. Serial No. 636,653, Aug. 11. Class 46.
Quercia, Marcel, Paris, France. Cigar and/or cigarette lighters. Serial No. 630,648, Aug. 11. Class 8.
Rand McNally & Company, Skokie, Ill. Check register forms and pocket filing sheets. Serial No. 642,491, Aug. 11. Class 37.
Raybestos-Manhattan, Inc., Passaic, N. J. Electrical insulation. Serial No. 628,713, Aug. 11. Class 21.
Reclu Sales Company, Vancouver, British Columbia, Canada. Pharmaceutical preparation. Serial No. 640,758, Aug. 11. Class 18.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Electrically operated indicating and controlling instruments, etc. Serial No. 633,378, Aug. 11. Class 26.
Robroy Manufacturing Company, Durham, N. C. Truck cranes, and cement spreaders and parts thereof. Serial No. 590,837, Aug. 11. Class 23.
Roerig, J. B., and Company, Chicago, Ill. Medicinal preparation. Serial No. 609,219, Aug. 11. Class 18.
Ross, Walter W., and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo. Organizing of chapters in a national business society and maintaining membership therein. Serial No. 620,017, Aug. 11. Class 100.
Ross, Will, Inc., Milwaukee, Wis. Paper sterilizing bags and paper tubing. Serial No. 630,573, Aug. 11. Class 44.
Royal Home Products, Inc., doing business as Zanol Products, Cincinnati, Ohio. All purpose lotion, cologne, deodorant, etc. Serial No. 630,512, Aug. 11. Class 51.
Ruger Equipment, Inc., Christiansville, Ohio. Cranes and portable load-lifting and handling equipment. Serial Nos. 624,302–3, Aug. 11. Class 23.
Salex Laboratories: *See*—
Scardapane, Waldo.
San-Ei Sangyo Co., Ltd., Tokyo, Japan. Cameras. Serial No. 642,773, Aug. 11. Class 26.
Scardapane, Waldo, doing business as Salex Laboratories, Millerton, N. Y. Medicinal preparation. Serial No. 642,171, Aug. 11. Class 18.
Schenley Distillers, Inc., doing business as I. W. Harper Distilling Company, New York, N. Y. Whiskey. Serial No. 642,697, Aug. 11. Class 49.
Scovill Manufacturing Company, Waterbury, Conn. Bank pins, dressmaker pins, silk pins, etc. Serial No. 621,986, Aug. 11. Class 40.
Sears, Roebuck and Co., Chicago, Ill. Food bag or carton filler. Serial No. 640,585, Aug. 11. Class 13.
Selberling Rubber Company, Barberton, Ohio. Pneumatic rubber tires. Serial No. 645,265, Aug. 11. Class 35.
Selchow & Righter Company, New York, N. Y. Board game. Serial No. 634,166, Aug. 11. Class 22.
Sheldrick Manufacturing Company, Upper Sandusky, Ohio. Laboratory testing instrument. Serial No. 614,518, Aug. 11. Class 26.
Shroyers Incorporated, Shamokin, Pa. Ladies' and misses' dresses. Serial No. 637,089, Aug. 11. Class 39.
Slumberland Products Co., Waltham, Mass. Special bed combination, including mattress unit. Serial No. 615,292, Aug. 11. Class 32.
Smokemasters, Inc., New York, N. Y. Meat products. Serial No. 639,786, Aug. 11. Class 46.
Societe Rhodiaceta, Paris, France. Textile ribbons and textile fabrics. Serial No. 634,509, Aug. 11. Class 42.
Soft Water Supply Co., Atchison, Kans. Water softeners and filters. Serial No. 634,350, Aug. 11. Class 31.
Soldwedel, F. H., Company, Pekin, Ill. Dairy products. Serial No. 634,278, Aug. 11. Class 46.
South Pacific Canning Company, Long Beach, Calif. Canned tuna fish. Serial No. 641,097, Aug. 11. Class 46.
Sovereign Film Co., New York, N. Y. Photographic film and paper. Serial No. 641,986, Aug. 11. Class 26.
Sparks Machine Tool Corporation, The: *See*—
Hydra-feed Machine Tool Corporation, The.
Stahmer, Bernhardt, doing business as Industrial Electrical Works, Omaha, Nebr. Automatic take up reels for electric cords and cables. Serial No. 638,882, Aug. 11. Class 21.
Standard Pressed Steel Co., Jenkintown, Pa. Metal dowel pins, self-locking nuts, internal wrenching nuts, etc. Serial No. 635,936, Aug. 11. Class 13.
Standard Pressed Steel Co., Jenkintown, Pa. Portable carts, packing plant trucks, hand trucks, etc. Serial No. 635,937, Aug. 11. Class 19.
Stanley Works, The, New Britain, Conn. Electric door controlling apparatus. Serial No. 587,832, Aug. 11. Class 21.
Stenor Limited, Richmood, England. Electrically heated vulcanizing machines, apparatus, and parts therefor. Serial No. 632,653, Aug. 11. Class 21.
Strickland, J., and Company, Memphis, Tenn. Perfumes. Serial No. 636,038, Aug. 11. Class 51.
Stroub Products: *See*—
Stroub, Stephen N.
Stroub Products Co., Inc., assignee: *See*—
Stroub, Stephen N.
Stroub, Stephen N., doing business as Stroub Products, assignor to Stroub Products Co., Inc., Totowa Borough, N. J. Finely-divided cementitious solid material. Serial No. 631,582, Aug. 11. Class 12.
Sun Chemical Corporation, Long Island City, N. Y. Printing inks. Serial No. 639,344, Aug. 11. Class 11.
Sun Rubber Company, The, Barberton, Ohio. Basketballs, volley balls, and footballs. Serial No. 622,861, Aug. 11. Class 22.
Sun Rubber Company, The, Barberton, Ohio. Basketballs, water polo balls, volley balls, etc. Serial No. 622,862, Aug. 11. Class 22.
Supowitz Brothers, Pittsburgh, Pa. Boys' shoes. Serial No. 638,671, Aug. 11. Class 39.
Supreme Feed Mills, also doing business as Supreme Mills, Glasgow, Ky. Ground corn. Serial No. 629,827, Aug. 11. Class 46.
Supreme Mills: *See*—
Supreme Feed Mills.
Sweden Freezer Manufacturing Company, Seattle, Wash. Commercial ice-cream dispensing freezers. Serial No. 636,316, Aug. 11. Class 31.
Taft Pharmaceutical Company, Incorporated, New Haven, Conn. Food ingredient in the form of a powder, and containing proteins, vitamins, and minerals. Serial No. 603,267, Aug. 11. Class 18.

Tallmadge Co. Inc., The, New York, N. Y. Rubber or plastic backed flock carpeting, rugs, and mats. Serial No. 614,584, Aug. 11. Class 50.
Textile Fiber Corporation, St. Louis, Mo. Shredded textile fibers. Serial No. 633,561, Aug. 11. Class 1.
Thompson, Clifford J., Davenport, Fla. Insoles. Serial No. 616,256, Aug. 11. Class 39.
Times Facsimile Corporation, New York, N. Y. Machines for duplicating written, printed, graphic, or pictorial subject matter, etc. Serial No. 614,224, Aug. 11. Class 21.
Toni Company, The: *See*—
Gillette Company, The.
Tyler-Gregg Poultry and Egg Company, Inc., Tyler, Tex. Fresh dressed and frozen frying, roasting, and broiling poultry. Serial No. 630,243, Aug. 11. Class 46.
Unit Parts Company, Oklahoma City, Okla. Rebuilt automotive parts. Serial No. 647,324, Aug. 11. Class 19.
United States Plywood Corporation, New York, N. Y. Plastic laminates. Serial No. 638,987, Aug. 11. Class 12.
United States Tobacco Company, Flemington, N. J., New York, N. Y. Chewing tobacco. Serial No. 550,879, Aug. 11. Class 17.
Valette, J. L. J., et Cie, Paris, France. Prism binoculars, opera, field, and marine glasses, and reading glasses. Serial No. 613,007, Aug. 11. Class 26.
Van Camp Sea Food Company, Inc., Terminal Island, Calif. Canned tuna fish. Serial Nos. 641,355–6, Aug. 11. Class 46.
Verdex Co., Inc., The, Carlstadt, N. J. Silicone coating solution. Serial No. 638,277, Aug. 11. Class 16.
Verdex Co., Inc., The, Carlstadt, N. J. Paint. Serial No. 638,278, Aug. 11. Class 16.
Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J. Potassium permanganate. Serial No. 629,922, Aug. 11. Class 6.
Vinti, Carlo, New York, N. Y. Advertising the goods and services of sponsors. Serial No. 638,676, Aug. 11. Class 101.
Vulcancraft Fabricating Company: *See*—
Kiser, William J.
Wales-Strippit Corporation, North Tonawanda, N. Y. Stripping units, hole punching and notching equipment, etc. Serial No. 628,019, Aug. 11. Class 23.
Wander Company, The, Chicago, Ill. Ampoule-containing mersalyl and theophylline. Serial No. 633,806, Aug. 11. Class 18.
Waterbury Companies Inc., Waterbury, Conn. Self cleaning combs. Serial No. 642,330, Aug. 11. Class 40.
Welger Weed & Company, Detroit, Mich. Non-consumable resistance welding tips or electrodes, spot welding tips, seam welding wheels, etc. Serial No. 642,916, Aug. 11. Class 21.
Weiner, J. L., Co., St. Louis, Mo. Child's combination chair and desk unit. Serial No. 642,585, Aug. 11. Class 32.
Williams, Dwight S., Company, Inc., New York, N. Y. Socks. Serial No. 642,001, Aug. 11. Class 39.
Willow Springs Distilling Company: *See*—
American Distilling Company, The.
Willys Motors, Inc., assignee: *See*—
Willys-Overland Motors, Inc.
Willys-Overland Motors, Inc., assignor to Willys Motors, Inc., Toledo, Ohio. Internal combustion engines and parts thereof. Serial No. 536,572, Aug. 11. Class 23.
Wine Growers Guild, Lodi, Calif. Wines. Serial Nos. 610,881–2, Aug. 11. Class 47.
Wittek Manufacturing Co., Chicago, Ill. Hose clamps. Serial No. 640,877, Aug. 11. Class 13.
Wolfelt, Curt, doing business as Curt Wolfelt Studios, New York, N. Y. Ladies' and misses' shoes, sandals, and playshoes. Serial No. 628,080, Aug. 11. Class 39.
Wolfelt, Curt, Studios: *See*—
Wolfelt, Curt.
Worthington Ball Company, The, Elyria, Ohio. Covers for golf balls. Serial No. 644,367, Aug. 11. Class 22.
Young, Daniel W., Pine Bluff, Ark. Garlic compound tablets. Serial No. 637,226, Aug. 11. Class 18.
Zanol Products: *See*—
Royal Home Products, Inc.

# LIST OF REGISTRANTS OF TRADE-MARKS

A. & S. Camera Supply Co., Inc., New York, N. Y. Photographic lenses. 578,505, Aug. 11; Serial No. 627,102, published Nov. 4 1952. Class 26.
Addressograph-Multigraph Corporation: *See*—
Multigraph Company.
Allison, H. M., Company, Brookline, Mass. Sleeping garments. 578,687, Aug. 11; Serial No. 626,361. Class 39.
Alperin Strauss Co., New York, N. Y. Dress, negligee, and work shirts, and pajamas. 390,067, Sept. 2, 1941. Canceled June 19, 1953. O. G. Aug. 11. Class 39.
Aluminum Cooking Utensil Company, Inc., The, assignee: *See*—
Aluminum Cooking Utensil Company, The.
Aluminum Cooking Utensil Company, The, assignor, by mesne assignments, to The Aluminum Cooking Utensil Company, Inc., New Kensington, Pa. Metal foil. 578,501, Aug. 11; Serial No. 626,652, published Apr. 28, 1953. Class 14.
Amer, William, Company, Philadelphia, Pa. Leather. 578,538, Aug. 11; Serial No. 632,193, published May 5, 1953. Class 1.
American Blouse Co. Inc., New York, N. Y. Girls' blouses, combinations of blouses and slips, skirts, etc. 578,435, Aug. 11; Serial No. 608,526, published May 19, 1953. Class 39.
American Cancer Society, Inc., New York, N. Y. Providing and distributing funds as grants to institutions and to individuals as fellowships, etc. 578,651, Aug. 11; Serial No. 637,856, published May 19, 1953. Class 102.
American Colloid Company, Chicago, Ill. Wyoming type bentonite. 578,494, Aug. 11; Serial No. 626,133, published May 12, 1953. Class 1.
American Colloid Company, Chicago, Ill. Clays. 578,532, Aug. 11; Serial No. 631,774, published May 12, 1953. Class 1.
American Cyanamid Company, New York, N. Y. Sedative. 578,464, Aug. 11; Serial No 620,834, published May 19, 1953. Class 18.
American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets for dispensing paper towels. 578,410, Aug. 11; Serial No. 580,871, published May 19, 1953. Class 2.
American Locomotive Company, New York and Schenectady, N. Y. Turbine superchargers. 578,534, Aug. 11; Serial No. 631,914, published May 19, 1953. Class 23.
American Mineral Spirits Company, Chicago, Ill. Solvent naphtha for dry cleaning purposes. 578,625, Aug. 11; Serial No. 639,730, published May 19, 1953. Class 52.
American Model Toys, Inc., Auburn, Ind. Toy model coupling devices. 578,578, Aug. 11; Serial No. 636,674, published May 19, 1953. Class 22.
American Saw and Manufacturing Company, Springfield, Mass. Ground flat metal stock. 578,451, Aug. 11; Serial No. 616,805, published Apr. 28, 1953. Class 14.
Anderson-Nichols & Company, Boston, Mass. Consulting engineering and architectural services. 578,645, Aug. 11; Serial No. 610,665, published May 19, 1953. Class 100.
Anheuser-Busch, Inc., St. Louis, Mo. Table syrup. 549,180, Oct. 9, 1951. Corrected. O. G. Aug. 11, 1953. Class 46.
Appleton Electric Company, Chicago, Ill. General service, spring operated balance reels. 578,436, Aug. 11; Serial No. 608,588, published May 26, 1953. Class 23.
Arcady Farms Milling Company: *See*—
Arcady Laboratories, Inc.
Arcady Laboratories, Inc., to Arcady Farms Milling Company, Chicago, Ill. Medicinal preparations. 304,148, renewed June 20, 1953. O. G. Aug. 11. Class 18.
Atkins & Durbrow, Inc., New York, N. Y. Peat moss. 307,636, renewed Oct. 31, 1953. O. G. Aug. 11. Class 1.
Atlas Underwear Company, The: *See*—
Richmond Underwear Co., The.
Attorney General of the United States, vested in the: *See*—
Deutsche Gold- & Silber-Scheideanstalt.
Ault & Wiborg Company, The, to Interchemical Corporation, New York, N. Y. Carbon paper, typewriter ribbons, inks. 305,218, renewed Aug. 8, 1953. O. G. Aug. 11. Class 11.
Ault & Wiborg Varnish Works, Inc., The, to Interchemical Corporation, New York, N. Y. Dry, paste, and ready-mixed paints; paint enamels, varnishes, etc. 305,100–5, renewed Aug. 1, 1953. O. G. Aug. 11. Class 16.
Ault & Wiborg Varnish Works, Inc., The, to Interchemical Corporation, New York, N. Y. Varnishes, treated oils used as paint vehicles, bronzing liquids, etc. 307,109, renewed Oct. 17, 1953. O. G. Aug. 11. Class 16.
Automatic Devices Co., Allentown, Pa. Steel curtain track. 578,589, Aug. 11; Serial No. 637,563, published May 26, 1953. Class 13.
Automotive Engineering, Inc., Chicago, Ill. Mufflers. 578,520, Aug. 11; Serial No. 629,416, published May 26, 1953. Class 23.
Bachman, Carl O., Watertown, N. Y. Printing press. 578,539, Aug. 11; Serial No. 632,411, published May 19, 1953. Class 23.
Baker & Company, Inc., Newark, N. J. Dental alloy. 307,550, renewed Oct. 31, 1953. O. G. Aug. 11. Class 44.
Barber-Colman Company, Rockford, Ill. Metal cutting tools. 578,518, Aug. 11; Serial No. 628,608, published May 19, 1953. Class 23.
Barclay, Jas., & Co., Limited, Detroit, Mich., and Peoria, Ill. Whiskey. 578,497, Aug. 11; Serial No. 626,207, published May 19, 1953. Class 49.
Bates Manufacturing Company, The, Orange, N. J. Strips of staples. 578,582, Aug. 11; Serial No. 636,875, published May 26, 1953. Class 13.



Belco Industrial Equipment Division, Inc., Paterson, N. J. Liquid treating equipment—namely, water softeners, etc. 578,425, Aug. 11; Serial No. 599,740, published May 20, 1952. Class 31.
Berke Brothers Distilleries Inc., Boston, Mass. Wines. 578,408–9, Aug. 11; Serial Nos. 580,394–5, published May 5, 1953. Class 47.
Bersworth Chemical Company, Framingham, Mass. Sodium salt of a synthetic amino acid. 578,635, Aug. 11; Serial No. 640,490, published May 19, 1953. Class 6.
Bigelow-Liptak Corporation, Detroit, Mich. Engineering services. 578,646, Aug. 11; Serial No. 618,107, published May 19, 1953. Class 100.
Biggar & Biggar, Fort Myers, Fla. Fresh vegetables. 578,508, Aug. 11; Serial No. 627,551, published May 12, 1953. Class 46.
Borg-Warner Corporation, Chicago, Ill. Nonelectric brakes and brake assemblies, chain and sprocket drive mechanisms, carburetors, etc. 578,414, Aug. 11; Serial No. 589,558, published May 5, 1953. Class 23.
Bostwick Laboratories, Inc., Bridgeport, Conn. Household deodorant. 578,413, Aug. 11; Serial No. 588,544, published Sept. 16, 1952. Class 6.
Bozeman Canning Company, Mount Vernon, Wash. Canned peas. 370,755, Sept. 5, 1939. Canceled July 1, 1953. O. G. Aug. 11. Class 46.
Bozeman Canning Company, Bozeman, Mont., and Mount Vernon, Wash. Canned peas. 373,480, Dec. 12, 1939. Canceled July 1, 1953. O. G. Aug. 11. Class 46.
Bradham, Caleb D., New Bern, N. C., to Pepsi-Cola Company, New York, N. Y. Flavoring syrup for soda water. 40,619, re-renewed June 16, 1953. O. G. Aug. 11. Class 45.
Braud & Oppenheimer Incorporated, New York, N. Y. Textile fabrics. 578,530, Aug. 11; Serial No. 630,985, published May 19, 1953. Class 42.
Brown, H. H., Shoe Co., Inc., Worcester, Mass. Men's and boys' shoes. 578,702, Aug. 11; Serial No. 642,441. Class 39.
Builders Iron Foundry, Providence, R. I. Fluid meters. 578,521, Aug. 11; Serial No. 630,057, published Apr. 7, 1953. Class 26.
Bullard Company, The, Bridgeport, Conn. Machine tools. 578,439, Aug. 11; Serial No. 613,159, published May 26, 1953. Class 23.
Burlington Basket Company, Burlington, Iowa. Hamper baskets, baby baskets, laundry baskets, etc. 578,446, Aug. 11; Serial No. 613,498, published May 12, 1953. Class 2.
Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. 578,453, Aug. 11; Serial No. 618,079, published Sept. 2. 1952. Class 39.
Bushnell, Robert A., Caldwell, Idaho. Boxes. 578,555, Aug. 11; Serial No. 634,729, published May 12, 1953. Class 2.
Buxton, Incorporated, Springfield, Mass. Billfolds, pass cases, purses, etc. 578,592, Aug. 11; Serial No. 637,750, published May 12, 1953. Class 3.
C. C. Manufacturing Company, Chicago, Ill. Smokers' ash tray. 578,670, Aug. 11; Serial No. 612,154. Class 8.
Cable Electric Products, Inc., Providence, R. I. Transformers. 578,695, Aug. 11; Serial No. 632,288. Class 21.
California Berry Freezers, Inc., Watsonville, Calif. Fresh berries, frozen fresh berries and fresh vegetables. 578,535, Aug. 11; Serial No. 632,016, published May 12, 1953. Class 46.
California Cellars, doing business as Napa & Sonoma Wine Co., San Francisco, Calif. Wines. 578,658, Aug. 11; Serial No. 592,072. Class 47.
Cananea Consolidated Copper Co., S. A., The, Cananea, Sonora, Mexico. Copper. 578,620, Aug. 11; Serial No. 639,262, published May 5, 1953. Class 14.
Cappellino, Francesco, to Francesco Cappellino & Sons, Rochester, N. Y. Olive oil. 305,197, renewed Aug. 8, 1953. O. G. Aug. 11. Class 46.
Cappellino, Francesco, & Sons: *See*—
Cappellino, Francesco.
Cardwell Manufacturing Company, Inc., Wichita, Kans. Wheeled rig. 578,655, Aug. 11; Serial No. 562,248. Class 23.
Centilvre Brewing Corporation, Fort Wayne, Ind. Beer. 578,561, Aug. 11; Serial No. 635,585, published May 19, 1953. Class 48.
Centilvre Brewing Corporation, Fort Wayne, Ind. Ale. 578,562, Aug. 11; Serial No. 635,586, published May 19, 1953. Class 48.
Central Mutual Insurance Company, Van Wert, Ohio. Underwriting of fire and other kinds of property insurance. 578,649, Aug. 11; Serial No. 629,650, published May 19, 1953. Class 102.
Century Specialty Co: *See*—
Duskin, Morris L.
Chain Belt Company, Milwaukee, Wis. Scum removal apparatus. 578,400, Aug. 11; Serial No. 567,069, published Apr. 28, 1953. Class 23.
Chapman, Elwood, Ontario, Calif. Educational service. 578,648, Aug. 11; Serial No. 628,394, published May 19, 1953. Class 107.
Chapman Refrigeration Manufacturers, Portland, Oreg. Household and commercial refrigerators and freezers. 578,547, Aug. 11; Serial No. 633,300, published Apr. 14, 1953. Class 31.
Chartreuse Corporation, New York, N. Y. Liqueur. 578,527, Aug. 11; Serial No. 630,757, published May 19, 1953. Class 49.
Chi Phi Fraternity, The, Atlanta, Ga. Recruiting and pledging prospective members of the chapters of a national collegiate fraternity. 578,652, Aug. 11; Serial No. 596,834, published May 19, 1953. Class 100.
Chicago Snow Printing Co., doing business as Mystik Adhesive Products, Chicago, Ill. Pressure sensitive paper tape. 578,633, Aug. 11; Serial No. 640,035, published May 19, 1953. Class 5.
Chickadee Pie Factory, McAllen, Tex. Ready-to-serve pancakes. 578,537, Aug. 11; Serial No. 632,076, published May 12, 1953. Class 46.
Ciba Limited, Basel, Switzerland. Coal-tar colors. 578,452, Aug. 11; Serial No. 617,228, published Mar. 25, 1952. Class 6.
Clement Bros., Lewisville, Idaho. Raw potatoes. 578,703, Aug. 11; Serial No. 643,535. Class 46.
Clementina Company, San Francisco, Calif. Sand blasting equipment. 578,411, Aug. 11; Serial No. 585,054, published May 26, 1953. Class 23.
Clothier, C. F., & Co.: *See*—
Clothier, Conrad F.
Clothier, Conrad F., doing business under the trade name and style of C. F. Clothier & Co., Philadelphia, Pa. Preparation for cleaning combs, hair brushes and jewelry. 578,608, Aug. 11; Serial No. 638,570, published May 19, 1953. Class 52.
Coastal Glads Farm, Fort Myers, Fla. Cut flowers. 578,491, Aug. 11; Serial No. 625,847, published May 12, 1953. Class 1.
Coca-Cola Bottling Company: *See*—
Porter, C. C.
Colorado Fuel and Iron Corporation, The, Denver, Colo. Poultry netting, wire fabric, and wire fence. 578,600, Aug. 11; Serial No. 638,290, published May 19, 1953. Class 13.
Colorado Fuel and Iron Corporation, The, Denver, Colo. Metal rails, joints and tie plates. 578,615, Aug. 11; Serial No. 638,837, published May 5, 1953. Class 14.
Commercial Visible Systems: *See*—
Daniel, Robert S.
Comunidad Viña San José-Tocornal, Santiago, Chile. Wines. 578,454, Aug. 11; Serial No. 618,082, published May 5, 1953. Class 47.
Concourse Hosiery Mills, Inc., assignor to Knothe Brothers Co. Inc., New York, N. Y. Women's hosiery. 578,402, Aug. 11; Serial No. 576,448, published July 1, 1952. Class 39.
Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coated paper. 578,581, Aug. 11; Serial No. 636,840, published May 12, 1953. Class 37.
Cook, C. Ashley, Portland, Oreg. Rocking horses. 578,686, Aug. 11; Serial No. 625,098. Class 22.
Cop-Sil-Loy, Inc., Beverly Hills, Calif. Dry coatings for braking, clutching, and like surfaces. 578,457, Aug. 11; Serial No. 619,500, published May 19, 1953. Class 6.
Corbeille, Gilbert H., doing business as Corbeille Interiors, Washington, D. C., assignor to Corbeille Interiors, Inc. Creating and suggesting designs and plans for the interior decoration and furnishing of houses, offices, etc. 578,707, Aug. 11; Serial No. 635,999. Class 100.
Corbeille Interiors: *See*—
Corbeille, Gilbert H.
Corbeille Interiors, Inc., assignee: *See*—
Corbeille, Gilbert H.
Coward Shoe, Inc., The, New York, N. Y. Women's shoes. 578,681–2, Aug. 11; Serial Nos. 621,502–3. Class 39.
Crabbie, John, & Co. Limited, Leith, Scotland. Scotch whisky. 578,390, Aug. 11; Serial No. 557,430, published May 5, 1953. Class 49.
Cromwell Paper Company, The, Chicago, Ill. Embossed laminated waterproof paper. 578,587, Aug. 11; Serial No. 637,364, published May 12, 1953. Class 37.
Crown Zellerbach Corporation, San Francisco, Calif. Solids of waste sulfite liquor, for use as an adhesive and adhesive extender. 578,629, Aug. 11; Serial No. 639,810, published May 19, 1953. Class 5.
Daniel, Robert S., trading as Commercial Visible Systems, Washington, D. C. Metal guides for filing cabinets and filing drawers. 578,440, Aug. 11; Serial No. 613,214, published May 19, 1953. Class 32.
Davidson, Glenn, Aurora, Ill. More or less purified protein from leguminous seeds for use as an ingredient in the manufacture of adhesives. 578,407, Aug. 11; Serial No. 579,863, published May 19, 1953. Class 5.
Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Strings for violins and similar instruments. 301,149, renewed Feb. 21, 1953. O. G. Aug. 11. Class 36.
Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Precious metals, and non-precious metals. 301,150, renewed Feb. 21, 1953. O. G. Aug. 11. Class 14.
Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Fuel oils, lubricating oils, lubricating greases, etc. 301,151, renewed Feb. 21, 1953. O. G. Aug. 11. Class 15.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Dry and ready mixed paints and paint pigments, etc. 301,152, renewed Feb. 21, 1953. O. G. Aug. 11. Class 4.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Airplanes, motor boats, sail boats, etc. 301,153, renewed Feb. 21, 1953. O. G. Aug. 11. Class 19.

Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany, vested in the Attorney General of the United States, Washington, D. C. Armatures; insulation materials, electric fans, etc. 301,154, renewed Feb. 21, 1953. O. G. Aug. 11. Class 21.

Diamond Full-Fashioned Hosiery Co., Inc., High Point, N. C., and New York, N. Y., now by change of name Diamond Hosiery Corp. Women's and girls' hosiery. 578,660, Aug. 11; Serial No. 595,657. Class 39.

Diamond Hosiery Corp.: *See*—
Diamond Full-Fashioned Hosiery Co., Inc.

Dick, A. B., Company, Niles, Ill. Materials used in lithographic printing. 578,438, Aug. 11; Serial No. 610,420, published Apr. 7, 1953. Class 26.

Dickson Fuel Corp., Philadelphia, Pa. Coal. 578,540, Aug. 11; Serial No. 632,509, published May 5, 1953. Class 1.

Doeskin Products, Inc.: *See*—
San-Nap-Pak Mfg. Co. Inc.

Doniger, Arthur, Paper Co., Inc., New York, N. Y. Aluminum foil. 578,529, Aug. 11; Serial No. 630,885, published May 12, 1953. Class 14.

Doppimaier, George, doing business as Roll Rain Co., Rio Linda, Calif. Field sprinkling apparatus. 578,441, Aug. 11; Serial No. 613,402, published May 26, 1953. Class 13.

Dougherty's, J. A., Sons, Inc. Distillers, also known as J. A. Dougherty's Sons, Incorporated, Philadelphia, Pa. Whiskey. 578,603, Aug. 11; Serial No. 638,405, published May 19, 1953. Class 49.

Dougherty's, J. A., Sons, Incorporated: *See*—
Dougherty's, J. A., Sons, Inc. Distillers.

Dow Corning Corporation, Midland, Mich. Unvulcanized organopolysiloxane elastomers. 578,636–7, Aug. 11; Serial Nos. 640,552–3, published May 19, 1953. Class 6.

Duluth Universal Milling Company, Duluth, Minn. Wheat flour. 578,433, Aug. 11; Serial No. 607,663, published May 12, 1953. Class 46

Duro Co., The, Dayton, Ohio. Water softeners. 578,432, Aug. 11; Serial No. 605,786, published Apr. 28, 1953. Class 31.

Duskin, Morris L., doing business as Century Specialty Co., Chicago, Ill. Garment travel bags. 578,599, Aug. 11; Serial No. 638,136, published May 12, 1953. Class 3.

Eagle Pencil Company, New York, N. Y. Wood encased pencils. 578,573, Aug. 11; Serial No. 636,219, published May 12, 1953. Class 37.

Eagle Pencil Company, New York, N. Y. Wood encased pencils. 578,574, Aug. 11; Serial No. 636,221, published May 12, 1953. Class 37.

Eastern Venetian Blind Company, The, Baltimore, Md. Venetian blinds. 578,676, Aug. 11; Serial No. 617,658. Class 32.

Eastern Venetian Blind Company, The, Baltimore, Md. Venetian blinds. 578,677, Aug. 11; Serial No. 617,953. Class 32.

Eastman Kodak Company: *See*—
Tennessee Eastman Corporation.

El Chico Cafe, Dallas, Tex. Restaurant services. 578,650, Aug. 11; Serial No. 637,100, published May 10, 1953. Class 100.

Elgin Foods, Incorporated, Elgin, Ill. Prepared flours. 306,173, renewed Sept. 12, 1953. O. G. Aug. 11. Class 46.

Elgin Softener Corporation, Elgin, Ill. Base exchange water softeners, with and without filtering material, etc. 578,449, Aug. 11; Serial No. 615,604, published Apr. 7, 1953. Class 31.

Ely & Walker Dry Goods Company, St. Louis, Mo. Men's and boys' dress, sport and work shirts. 578,593, Aug. 11; Serial No. 637,766, published May 12, 1953. Class 39.

Emjay Maintenance Corporation, Rutherford, N. J. Protective coating composition. 578,488, Aug. 11; Serial No. 625,469, published May 19, 1953. Class 10.

Empire Shield Company, Inc., New York, N. Y. Rubber crib sheets and table covers of plastic film. 502,306, Sept. 21, 1948. Canceled June 25, 1953. O. G. Aug. 11. Class 42.

Eno-Scott & Bowne: *See*—
Prichard & Constance (Wholesale) Ltd.

Enterprise Aluminum Company, The, Massillon, Ohio. Corn poppers. 578,594, Aug. 11; Serial No. 637,767, published May 12, 1953. Class 13.

Ettelbrick Shoe Manufacturing Co., Casey, Ill., to J. C. Penney Company, New York, N. Y. Infants' shoes. 302,581, renewed Apr. 25, 1953. O. G. Aug. 11. Class 39.

Eureka Williams Corporation, Bloomington, Ill. Compartmented fabric cases. 578,387, Aug. 11; Serial No. 529,617, published May 19, 1953. Class 2.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Metallic solder. 578,619, Aug. 11; Serial No. 639,164, published May 5, 1953. Class 14.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Metallic welding electrodes and gas welding rods. 578,626, Aug. 11; Serial No. 639,750, published May 5, 1953. Class 14.

Evanston Stamping Company, Evanston, Ill. Metal baking sheets, baking pans and cooking pans. 578,565, Aug. 11; Serial No. 635,752, published May 12, 1953. Class 13.

Ever Ready Label Corporation, Belleville, N. J. Blank and partially printed adhesive labels. 578,669, Aug. 11; Serial No. 609,791. Class 37.

Everest & Jennings, Inc., Los Angeles, Calif. Invalid wheel chairs. 578,499, Aug. 11; Serial No. 626,372, published May 12, 1953. Class 44.

Evis Manufacturing Company, San Francisco, Calif. Fluid treating pipe line and entrance fittings. 578,489, Aug. 11; Serial No. 625,470, published May 26, 1953. Class 13.

Ex-Cell-O Aircraft & Tool Corporation, to Ex-Cell-O Corporation, Detroit, Mich. Automatic screw machine products. 306,921, renewed Oct. 3, 1953. O. G. Aug. 11. Class 23.

Ex-Cell-O Corporation: *See*—
Ex-Cell-O Aircraft & Tool Corporation.

Fashion Frocks, Inc., Cincinnati, Ohio. Women's and children's dresses. 224,748, Mar. 1, 1927. Republished Aug. 11. Class 39.

Fiat Società per Azioni, Turin, Italy. Planing machines, slotting machines, boring machines, etc. 578,543, Aug. 11; Serial No. 633,048, published May 19, 1953. Class 23.

Findlater Mackie Todd & Co. Limited, London, England. Sherry wine. 578,471, Aug. 11; Serial No. 622,254, published May 26, 1953. Class 47.

Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 92,330, re-renewed July 1, 1953. O. G. Aug. 11. Class 46.

Fisher Flouring Mills Company, Harbor Island, Seattle, to Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 306,418, renewed Sept. 19, 1953. O. G. Aug. 11. Class 46.

Fisher Flouring Mills Company, West Waterway, Harbor Island, Seattle, to Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 306,421, renewed Sept. 19, 1953. O. G. Aug. 11. Class 46.

Fleming & Sons, Inc., Dallas, Tex. Decorative panel board. 578,698, Aug. 11; Serial No. 634,583. Class 12.

Food Machinery and Chemical Corporation, San Jose, Calif. Leasing machines and equipment to be used in treating fruit and vegetables, etc. 578,643, Aug. 11; Serial No. 588,570, published May 19, 1953. Class 100.

Foodways, Inc., New York, N. Y. Fresh frozen fruits and vegetables, canned frozen orange juice, etc. 578,506, Aug. 11; Serial No. 627,180, published May 12, 1953. Class 46.

Forstmann Woolen Co., to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 307,742, renewed Oct. 31, 1953. O. G. Aug. 11. Class 42.

Fox-Knapp Manufacturing Co., New York, N. Y. Men's and women's sportswear. 578,380, Aug. 11; Serial No. 542,460, published May 12, 1953. Class 39.

Frankenmuth Brewing Company, Frankenmuth, Mich. Beer. 578,502, Aug. 11; Serial No. 627,061, published May 5, 1953. Class 48.

Franklin, O. M., Blackleg Serum Company, The, to O. M. Franklin Serum Company, Denver, Colo. Branding liquid. 305,772, renewed Aug. 22, 1953. O. G. Aug. 11. Class 6.

Franklin, O. M., Serum Company: *See*—
Franklin, O. M., Blackleg Serum Company, The.

Fury Manufacturing Company, Brighton, Mich. Artificial fish lures. 578,571, Aug. 11; Serial No. 636,073, published May 19, 1953. Class 22.

Galveston-Houston Breweries, Inc., Galveston, Tex. Beer. 578,536, Aug. 11; Serial No. 632,027, published May 5, 1953. Class 48.

Gaylord Container Corporation, St. Louis, Mo. Paper bags and sacks, containers of all kinds, etc. 578,623, Aug. 11; Serial No. 630,424, published May 12, 1953. Class 2.

General Dyestuff Corporation, New York, N. Y. Chemical compounds and compositions. 578,634, Aug. 11; Serial No. 640,396, published May 19, 1953. Class 6.

General Metallurgical Corporation, Luna Pier, Mich. Welding rod, cylinder blocks, a special mechineable iron, etc. 578,420, Aug. 11; Serial No. 602,445, published Apr. 28, 1953. Class 14.

Gervais, Ch., Société Anonyme, Paris, France. Cheese and milk products. 578,699, Aug. 11; Serial No. 636,585. Class 46.

Gillette Company, The, Boston, Mass. Safety razors and safety razor blades. 578,627, Aug. 11; Serial No. 639,753, published May 5, 1953. Class 23.

Gillum, Ray, Enterprises, Inc., Baltimore, Md. Advertising the goods and services of others. 578,706, Aug. 11; Serial No. 626,029. Class 101.

Glenbard Tool Mfrs., Chicago, Ill. Relieving fixtures for supporting work during grinding and other operations. 578,472, Aug. 11; Serial No. 622,537, published Apr. 28, 1953. Class 23.



Glo-Lure, Inc., Medford, Wis. Artificial fish baits. 578,569, Aug. 11; Serial No. 636,012, published May 19, 1953. Class 22.

Godchaux, Leon, Clothing Company, Limited, The, New Orleans, La. Men's clothing. 578,664, Aug. 11; Serial No. 604,844. Class 39.

Goldman, Louis M., doing business as Lou-Bob Company, Chicago, Ill. Lubricating oils. 354,784, Feb. 22, 1938. Republished Aug. 11. Class 15.

Goldsmith Bros., New York, N. Y. Writing and typewriting paper. 303,028, renewed May 9, 1953. O. G. Aug. 11. Class 37.

Goodall Rubber Company, Trenton, N. J. Air hose. 578,641, Aug. 11; Serial No. 642,466, published May 19, 1953. Class 35.

Goodrich, B. F., Company, The: *See*—
Hood Rubber Company, Inc.

Goodyear Footwear Corporation: *See*—
Gnptill, Hervey E.

Gordon Sales, Inc., Detroit, Mich. Spring pads or supports. 578,504, Aug. 11; Serial No. 627,126, published May 19, 1953. Class 32.

Goss Printing Press Company, The, Chicago, Ill. Power operated printing presses and parts thereof. 578,434, Aug. 11; Serial No. 607,754, published Feb. 17, 1953. Class 23.

Grand Union Company, The, New York, N. Y. Butter and fresh eggs. 578,665, Aug. 11; Serial No. 605,416. Class 46.

Granger Medicine Co., Inc., The, New Iberia, La. Pills for headache, dizziness, etc. 300,023, renewed Jan. 3, 1953. O. G. Aug. 11. Class 18.

Great American Tea Company, The, New York, N. Y. Canned food products. 307,357, renewed Oct. 24, 1953. O. G. Aug. 11. Class 46.

Gnptill, Hervey E., Haverhill, Mass., to Goodyear Footwear Corporation, Providence, R. I. Ladies' leather boots and shoes. 40,305, re-renewed May 12, 1953. O. G. Aug. 11. Class 39.

Hainke, Paul, Mfg. Co. Hutchinson, Kans. Power driven lawn mowers and parts thereof. 578,638, Aug. 11; Serial No. 610,628, published May 19, 1953. Class 23.

Haire Publishing Company, New York, N. Y. Monthly magazine. 578,701, Aug. 11; Serial No. 641,618. Class 38.

Harris, A., and Co., Dallas, Tex. Women's shirts. 578,662, Aug. 11; Serial No. 599,241. Class 39.

Hart & Harrington, Inc., Chicago, Ill. Creme shoe dressing. 578,606–7, Aug. 11; Serial Nos. 638,536–7, published May 19, 1953. Class 6.

Hartman Beverage Company, Knoxville, Tenn. Non-alcoholic maltless beverages. 578,401, Aug. 11; Serial No. 568,618, published May 5, 1953. Class 45.

Hayico Controls Corporation, Neenah, Wis. Proportioning controller. 578,528, Aug. 11; Serial No. 630,781, published Apr. 7, 1953. Class 26.

Hebb Leather Co., Inc., Boston, Mass. Leather. 578,577, Aug. 11; Serial No. 636,567, published May 19, 1953. Class 4.

Hedwin Corporation, Baltimore, Md. Plastic drum liners and bags. 578,474, Aug. 11; Serial No. 622,597, published May 12, 1953. Class 2.

Helme, George W., Company, New York, N. Y. Snuff. 578,393–4, Aug. 11; Serial Nos. 562,040–1, published May 19, 1953. Class 17.

Helme, George W., Company, New York, N. Y. Snuff. 578,395, Aug. 11; Serial No. 562,048, published May 19, 1953. Class 17.

Helme, George W., Company, New York, N. Y. Snuff. 578,396, Aug. 11; Serial No. 562,054, published May 19, 1953. Class 17.

Hennsey, John B., Los Angeles, Calif. Ash trays. 578,663, Aug. 11; Serial No. 602,761. Class 8.

Hercules Cycle and Motor Company Limited, The, Birmingham, England. Cycles– namely, bicycles, tricycles, etc. 303,186, renewed May 16, 1953. O. G. Aug. 11. Class 19.

Herradora, Marco A., doing business as Unite Pharmaceutique Francaise, New York, N. Y., to Vitaminerals, Inc., Glendale, Calif. Medicine for internal use. 301,529, renewed Mar. 7, 1953. O. G. Aug. 11. Class 18.

Hettrick Manufacturing Company, Toledo, Ohio. Hunting coats. 439,492, June 29, 1948. Canceled June 22, 1953. O. G. Aug. 11. Class 39.

Hibben Hollweg & Company, Indianapolis, Ind. Piece goods. 578,404, Aug. 11; Serial No. 577,887, published May 19, 1953. Class 42.

Hibben Hollweg & Company, Indianapolis, Ind. Piece goods. 578,405, Aug. 11; Serial No. 578,064, published May 19, 1953. Class 42.

Hibben Hollweg & Company, Indianapolis, Ind. Piece goods. 578,419–20, Aug. 11; Serials Nos. 593,350–1, published May 19, 1953. Class 42.

Hobson, J. H., Company, Philadelphia, Pa. Dried cheese whey. 578,616, Aug. 11; Serial No. 630,048, published May 12, 1953. Class 46.

Hobson, J. H., Company, Philadelphia, Pa. Nonfat dry milk solids and whole milk powder. 578,617, Aug. 11; Serial No. 630,049, published May 12, 1953. Class 46.

Holt, Allen M., III, doing business as Holt Mfg. Co., Birmingham, Ala. Paste. 578,467, Aug. 11; Serial No. 621,315, published May 19, 1953. Class 5.

Holt Mfg. Co.: *See*—
Holt, Allen M., III.

Home Window Company, The, Fostoria, Ohio. Combination storm windows and screens. 578,674, Aug. 11; Serial No. 616,854. Class 12.

Hood Rubber Company, Inc., Wilmington, Del., and Watertown, Mass., to The B. F. Goodrich Company, Akron, Ohio. Athletic footwear. 306,484, renewed Sept. 19, 1953. O. G. Aug. 11. Class 39.

Hoosierland Orchards: *See*—
Madigan, Paul J.

Hough, Frank G., Co., The, East Sunnyside, Libertyville, Ill. Automatic transmissions. 578,609, Aug. 11; Serial No. 638,582, published Apr. 28, 1953. Class 23.

Hoyt and Worthen Tanning Corporation, Haverhill, Mass. Thin leathers. 578,422, Aug. 11; Serial No. 594,462, published May 19, 1953. Class 1.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Sprayers of insecticides and other purposes, and sprayer parts. 578,406, Aug. 11; Serial No. 579,374, published May 19, 1953. Class 23.

Hunter Packing Co., East St. Louis, Ill. Frozen beef. 578,690, Aug. 11; Serial No. 632,019. Class 46.

Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Bromine derivatives of saligenin. 307,316, renewed Oct. 24, 1953. O. G. Aug. 11. Class 18.

Hyper-Humus Company, Bryn Mawr, Pa. Partially humified peat. 578,477, Aug. 11; Serial No. 623,959, published May 12, 1953. Class 1.

Illinois Iron & Bolt Co., Carpentersville, Ill. Anvils. 578,486, Aug. 11; Serial No. 625,275, published May 12, 1953. Class 14.

Indiana Gear Works, Inc., Indianapolis, Ind. Precision-tinished, metal gears. 578,493, Aug. 11; Serial No. 626,033, published Apr. 28, 1953. Class 23.

Interchemical Corporation: *See*—
Ault & Wiborg Company, The.
Ault & Wiborg Varnish Works, Inc., The.

Interstate Amlesite Co., Inc., The, Wilmington, Del. Bituminous paving material. 307,716, renewed Oct. 31, 1953. O. G. Aug. 11. Class 12.

Interwoven Stocking Company, New Brunswick, N. J. Men's, boys', and children's hosiery. 578,553, Aug. 11; Serial No 634,329, published Apr. 28, 1953. Class 39.

James Knights Company, The, Sandwich, Ill. Faucets and hydrants. 578,513, Aug. 11; Serial No. 628,212, published May 12, 1953. Class 13.

Jel Sert Co., The, Chicago, Ill. Gelatin dessert, and a preparation for making puddings. 578,469, Aug. 11; Serial No. 622,074, published May 12, 1953. Class 46.

Jersey Manufacturing Company: *See*—
Milo, John J.

Jones, Paul D., Inc., doing business under the name Paul Jones, Inc., Hollandale, Minn. Onions. 578,700, Aug. 11; Serial No. 640,343. Class 46.

Jones, Paul, Inc.: *See*—
Jones, Paul D., Inc.

José Arechabala, S. A., Cardenas, Matanzas, Cuba. Rum. 578,679–80, Aug. 11; Serial Nos. 621,465–6. Class 49.

Judy Company, The, Minneapolis, Minn. Puzzles. 578,570, Aug. 11; Serial No. 636,021, published May 19, 1953. Class 22.

K. L. M. Royal Dutch Airlines: *See*—
Koninklijke Luchtvaart Maatschappij N. V.

Kay Electric Company, Pine Brook, N. J. Instrument which is a sub-audio and audio spectrograph. 578,442, Aug. 11; Serial No. 613,454, published May 5, 1953. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument which is a heterodyne type analyzer. 578,443, Aug. 11; Serial No. 613,458, published Mar. 31, 1953. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument which is a combined sweeping oscillator and crystal marker generator. 578,444, Aug. 11; Serial No. 613,459, published Mar. 31, 1953. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument which is a calibrated random noise source. 578,445, Aug. 11; Serial No. 613,460, published Mar. 31, 1953. Class 26.

Kelley, Maude T. Mount Vernon, N. Y., by Stanley Home Products, Inc., Westfield, Mass. Washing devices. 287,649, Sept. 29, 1931. Republished Aug. 11. Class 24.

Kem Spray Cleaner Company, Detroit, Mich. Cleaning compound. 578,688, Aug. 11; Serial No. 626,578. Class 52.

Keyaudin, Inc., Long Beach, Calif. Food supplement. 578,551, Aug. 11; Serial No. 634,088, published May 19, 1953. Class 18.

Keystone Paint and Varnish Corporation, Brooklyn, N. Y. Coloring material for inter-mixing, blending and tinting water paints, etc. 578,591, Aug. 11; Serial No. 637,598, published May 19, 1953. Class 16.

Knapp-Monarch Company, St. Louis, Mo. Containers filled with deodorant and gas. 578,416, Aug. 11; Serial No. 591,241, published May 19, 1953. Class 6.

Knothe Brothers Co. Inc., assignee: *See*
Concourse Hosiery Mills, Inc.

Koninklijke Luchtvaart Maatschappij N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y. Air transport service. 578,647, Aug. 11; Serial No. 619,628, published May 19, 1953. Class 105.

Koninklijke Luchtvaart Maatschappij, N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y. Air transport service. 578,705, Aug. 11; Serial No. 619,627. Class 105.

Kuppenheimer, B., and Co. Inc., Chicago, Ill. Swatches of woolen textile fabrics. 578,448, Aug. 11; Serial No. 615,230, published May 19, 1953. Class 42.

Lan-Elec Limited, Slough, England. Hand-operated machines for the processing of meat. 578,482, Aug. 11; Serial No. 624,838, published May 19, 1953. Class 23.

Lapin Products, Inc., Newark, N. J. Safety razors. 444,785, Aug. 11; Serial No. 525,604, published Mar. 31, 1953. Class 23.

La Verne Co-operative Citrus Association, La Verne, Calif. Fresh citrus fruit. 306,911, renewed Oct. 3, 1953. O. G. Aug. 11. Class 46.

Lawson, F. H., Company, The, Cincinnati, Ohio. Metal trash cans. 578,522, Aug. 11; Serial No. 630,087, published May 12, 1953. Class 2.

Le Blanc Brothers, Lafayette, La. Chemical composition for washing and strengthening nylon. 578,632, Aug. 11; Serial No. 639,941, published May 19, 1953. Class 52.

Lebow Bros., Inc., Baltimore, Md. Men's and boys' suits, coats, slacks, etc. 578,575, Aug. 11; Serial No. 636,366, published May 12, 1953. Class 39.

Lederwarenfabrik Keitzler K. G., Rebbelroth, Cologne, Germany. Camera cases, fitted cases designed for photographic accessories, etc. 578,566, Aug. 11; Serial No. 635,838, published Apr. 7, 1953. Class 26.

Lee Paper Company, Vicksburg, Mich. Bond paper. 578,654, Aug. 11; Serial No. 556,901. Class 37.

Leeds Ltd. Coats, Inc.: *See*—
Siegel Brothers, Inc.

Lehn & Fink, Inc., to Lehn & Fink Products Corporation, Bloomfield, N. J. Antiseptic and disinfectant preparation. 307,869, renewed Nov. 7, 1953. O. G. Aug. 11. Class 51.

Lehn & Fink Products Corporation: *See*—
Lehn & Fink, Inc.

Lehn & Fink Products Corporation, Bloomfield, N. J. Ammoniated medicinal dentifrice. 528,498, Aug. 1, 1950. Canceled June 23, 1953. O. G. Aug. 11. Class 18.

Leitz, E., Inc., New York, N. Y. Photographic light meters. 578,531, Aug. 11; Serial No. 631,010, published Apr. 7, 1953. Class 26.

Lewis-Shepard Products, Inc., Watertown, Mass. Materials-handling equipment. 578,612, Aug. 11; Serial No. 638,724, published May 19, 1953. Class 23.

Lewis-Shepard Products, Inc., Watertown, Mass. Materials-handling trucks. 578,613, Aug. 11; Serial No. 638,725, published May 19, 1953. Class 23.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 578,583, Aug. 11; Serial No. 637,059, published May 19, 1953. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 578,584, Aug. 11; Serial No. 637,061, published May 19, 1953. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 578,585, Aug. 11; Serial No. 637,063, published May 19, 1953. Class 18.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 578,614, Aug. 11; Serial No. 638,727, published May 12, 1953. Class 18.

Lipton, Thomas J., Inc.: *See*—
Royal Estates Tea Co.

Lone Star Comforters, Inc., Houston, Tex. Bed comforters. 578,622, Aug. 11; Serial No. 639,378, published May 19, 1953. Class 42.

Lorillard, P., Company, New York, N. Y. Filters used to form a component part of cigarettes. 578,478, Aug. 11; Serial No. 624,092, published May 19, 1953. Class 8.

Lou-Bob Company: *See*—
Goldman, Louis M.

Lubraa Oil Corporation, Brooklyn, N. Y. Upper motor lubricants. 306,920, renewed Oct. 3, 1953. O. G. Aug. 11. Class 15.

Lunchomat Corporation of America, Dover, Del., and New York, N. Y. Coin-controlled manually-operated vending machines. 578,536, Aug. 11; Serial No. 634,905, published May 19, 1953. Class 23.

M. I. S. A. L.-Macchine Industriali Societa Accomandita Leto, Milan, Italy. Milling machines, turret lathes, pattern and radial drilling machines, etc. 578,618, Aug. 11; Serial No. 639,063, published Apr. 28, 1953. Class 23.

Mantschappij Ago N. V., Ter-Apel, Netherlands. Parts of textile machinery, etc. 561,467, July 15, 1952. Corrected. O. G. Aug. 11. Class 23.

Madigan, Paul J., doing business under the name Hoosierland Orchards, Anderson, Ind. Apple cider. 578,426, Aug. 11; Serial No. 601,550, published May 5, 1953. Class 45.

Mahoney, Daniel, doing business under the trade name "Mangan's", Plymouth, Pa. Prepared mustard. 578,690, Aug. 11; Serial No. 627,450. Class 46.

Malis Leather Company, Philadelphia, Pa. Leather. 578,559, Aug. 11; Serial No. 635,368, published May 5, 1953. Class 1.

"Mangan's": *See*—
Mahoney, Daniel.

Marathon Corporation, Menasha, Wis. Waxed paper bags. 578,624, Aug. 11; Serial No. 630,484, published May 12, 1953. Class 2.

Marathon Corporation, Menasha, Wis. Paper cartons. 578,628, Aug. 11; Serial No. 639,764, published May 12, 1953. Class 2.

Marbel Blood Calculator Company, Chicago, Ill. Blood-cell calculators. 578,519, Aug. 11; Serial No. 628,771, published Mar. 31, 1953. Class 26.

Marbon Corporation, Gary, Ind. Synthetic resinous compositions. 578,640, Aug. 11; Serial No. 642,150, published May 19, 1953. Class 6.

Marks, L. V., & Sons Company, The, Cincinnati, Ohio. Women's shoes. 578,656, Aug. 11; Serial No. 576,003. Class 39.

Marshall and Moore, Inc., Dallas, Tex. Drapery and upholstery fabrics. 578,563, Aug. 11; Serial No. 635,604, published May 19, 1953. Class 42.

Marshall Field & Company, Chicago, Ill., by Merrimack Manufacturing Company (1952), Lowell, Mass. Wilton pile fabrics. 314,731, July 3, 1934. Republished Aug. 11. Class 42.

Marvin Canning Company, Inc., Dallas, Tex. Canned dog food. 578,524, Aug. 11; Serial No. 630,278, published May 12, 1953. Class 46.

Masonite Corporation, Chicago, Ill., and Laurel, Miss. Embossed hardboard used for various construction purposes. 578,403, Aug. 11; Serial No. 577,063, published Jan. 13, 1953. Class 12.

Mavest Inc., New York, N. Y. Men's suits. 578,588, Aug. 11; Serial No. 637,489, published May 12, 1953. Class 39.

Mayfab Inc., Brooklyn, N. Y. Traveling bags and suitcases. 578,579, Aug. 11; Serial No. 636,719, published May 12, 1953. Class 3.

McCray Refrigerator Company, Inc., Kendallville, Ind. Refrigerated display cases. 578,525, Aug. 11; Serial No. 630,433, published Apr. 14, 1953. Class 31.

McQuinness, L. J., & Company, Limited, Mimico, Ontario, Canada. Alcoholic cordials and liqueurs. 578,470, Aug. 11; Serial No. 622,083, published May 5, 1953. Class 49.

McHugh, William J., Export, Pa. Plastic casings for the display of animal identification tags. 578,672, Aug. 11; Serial No. 614,002. Class 3.

McIntire Corporation, The, Cambridge, Mass. Fire-hose nozzles. 578,515, Aug. 11; Serial No. 628,361, published May 12, 1953. Class 13.

McIntire Corporation, The, Cambridge, Mass. Fire-hose nozzles. 578,516, Aug. 11; Serial No. 628,362, published May 19, 1953. Class 13.

McMahon, Thomas G., doing business as Thos. G. McMahon & Co., to Thomas G. McMahon & Co., Inc., Utica, N. Y. Canned fruits, honey, food-flavoring extracts, etc. 300,755, renewed Feb. 7, 1953. O. G. Aug. 11. Class 46.

McMahon, Thomas G., & Co., Inc.: *See*—
McMahon, Thomas G.

McMahon, Thos. G., & Co.: *See*—
McMahon, Thomas G.

McMahon, Thos. G., & Co.: *See*—
McMahon, Thomas G.

Mergenthaler Linotype Company, Brooklyn, N. Y. Metal casting machines. 578,447, Aug. 11; Serial No. 614,707, published May 26, 1953. Class 23.

Mergenthaler Linotype Company, Brooklyn, N. Y. Metal casting machines. 578,466, Aug. 11; Serial No. 621,210, published May 26, 1953. Class 23.

Merrimack Manufacturing Company, by Merrimack Manufacturing Company (1952), Lowell, Mass. Cotton piece goods. 113,278, Oct. 10, 1916. Republished Aug. 11. Class 42.

Merrimack Manufacturing Company, by Merrimack Manufacturing Company (1952), Lowell, Mass. Carduroys, pile fabrics, fustians, khakis, velveteens, and cotton piece goods. 118,903, Oct. 9, 1917. Republished Aug. 11. Class 42.

Merrimack Manufacturing Company (1952): *See*—
Marshall Field & Company.
Merrimack Manufacturing Company.

Metalwash Machinery Company, Elizabeth, N. J. Machines for cleaning and drying the surfaces of solid material goods. 578,475, Aug. 11; Serial No. 622,841, published May 12, 1953. Class 23.

Milio, Louis R., Baltimore, Md. Newspaper articles. 408,716, Aug. 29, 1944. Canceled July 9, 1953. O. G. Aug. 11. Class 38.

Miller, Sam S., doing business as Ohio First Aid and Pharmacal Company, Cleveland, Ohio. First aid eye safety kits. 578,461, Aug. 11; Serial No. 619,843, published May 19, 1953. Class 44.

Milo, John J., doing business under the name and style of Jersey Manufacturing Company, Elizabeth, N. J. Metal cutting tool and tool holder assembly. 578,507, Aug. 11; Serial No. 627,397, published May 5, 1953. Class 23.

Mine Safety Appliances Company, Pittsburgh, Pa. Mask-type respirator. 578,510, Aug. 11; Serial No. 627,956, published May 12, 1953. Class 44.

Miss Junior Coats, Inc., New York, N. Y. Girls' and misses' coats and jackets. 578,671, Aug. 11; Serial No. 612,175. Class 39.

Moore, P. O., Inc., New York, N. Y. Partially printed index cards. 578,668, Aug. 11; Serial No. 608,462. Class 37.

Morgan Crucible Company Limited, The, Battersea, London, to The Morgan Crucible Company Limited, London, England. Crucibles. 91,105, re-renewed Apr. 15, 1953. O. G. Aug. 11. Class 26.



Morris, Philip, & Co. Ltd., Incorporated, New York, N. Y. Cigarettes. 578,704, Aug. 11; Serial No. 644,432. Class 17.

Mueller-Welt Contact Lenses, Inc., Chicago, Ill. Contact lenses. 578,523, Aug. 11; Serial No. 630,144, published Apr. 7, 1953. Class 26.

Multigraph Company, Wilmington, Del., and Cleveland, Ohio, to Addressograph-Multigraph Corporation, Cleveland, Ohio. Chemicals. 307,408, renewed Oct. 24, 1953. O. G. Aug. 11. Class 6.

Mystik Adhesive Products: *See*—
Chicago Show Printing Co.

N. V. Pope's Draad- En Lampenfabrieken, Venlo, Netherlands. Electric incandescent lamps, discharge lamps, auxiliary apparatus for use in the electric lighting field, etc. 578,675, Aug. 11; Serial No. 617,552. Class 21.

Napa & Sonoma Wine Co.: *See*—
California Cellars.

Natcon Industries, Inc.: *See*—
Od Peacock Sultan Company.

National Engineering Company, Chicago, Ill. Apparatus for reclaiming used sand. 578,423, Aug. 11; Serial No. 594,916, published May 5, 1953. Class 23.

National Ideal Company, The, Toledo, Ohio. Hand operated seed and fertilizer spreaders, cultivators, etc. 578,465, Aug. 11; Serial No. 620,927, published Apr. 28, 1953. Class 23.

Nihon Mishin Seizo Kabushiki Kaisha, Mizuho-ku Nagoya, Japan. Sewing machines. 578,481, Aug. 11; Serial No. 624,723, published May 5, 1953. Class 23.

Northome Furniture Industries, Inc., Dubuque, Iowa. Upholstered sofas, davenports, love seats, etc. 578,463, Aug. 11; Serial No. 620,321, published May 19, 1953. Class 32.

Northwest Chemical Co., Inc., Detroit, Mich. Water wash compound for preventing adhesion of paint to spray booths. 578,473, Aug. 11; Serial No. 622,550, published May 19, 1953. Class 16.

Nurserytyme Products, Brooklyn, N. Y. Crib mattresses. 578,392, Aug. 11; Serial No. 559,043, published May 19, 1953. Class 32.

Od Peacock Sultan Company, St. Louis, Mo., to Natcon Industries, Inc., New York, N. Y. Pharmaceutical preparations. 303,320, renewed May 23, 1953. O. G. Aug. 11. Class 18.

Ohio First Aid and Pharmacal Company: *See*—
Miller, Sam S.

Ong, Constance, doing business as Jade Snow Wong, San Francisco, Calif. Enameled copperware ash trays and cigarette boxes. 578,455, Aug. 11; Serial No. 618,324, published May 19, 1953. Class 8.

Pacific Wire Products Company, Compton, Calif. Bronze, aluminum, and steel insect screen cloth, etc. 578,576, Aug. 11; Serial No. 636,535, published May 26, 1953. Class 13.

Pacific Wire Products Company, Compton, Calif. Aluminum insect screen cloth. 578,595, Aug. 11; Serial No. 637,883, published May 12, 1953. Class 13.

Pacific Wire Products Company, Compton, Calif. Galvanized insect screen cloth. 578,597, Aug. 11; Serial No. 637,884, published May 12, 1953. Class 13.

Patterson-Sargent Company, The, Cleveland, Ohio. Ready mixed paints. 299,887, re-renewed Dec. 27, 1952. O. G. Aug. 11. Class 16.

Peabody Seating Company, Inc., The, North Manchester, Ind. Desks and seating equipment. 578,500, Aug. 11; Serial No. 626,531, published May 19, 1953. Class 32.

Pearlduck, Inc., New York, N. Y. Razors, shears, scissors, etc. 578,476, Aug. 11; Serial No. 623,630, published May 19, 1953. Class 23.

Penney, J. C., Company: *See*—
Ettelbrick Shoe Manufacturing Co.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y., to J. C. Penney Company, New York, N. Y. Men's and boys' work shirts, work pants, work suits, etc. 303,405, renewed May 23, 1953. O. G. Aug. 11. Class 39.

Pepsi-Cola Company: *See*—
Bradham, Caleb D.

Permutit Company, The, New York, N. Y. Insoluble granular or bead-like ion exchange and adsorbent materials, etc. 578,462, Aug. 11; Serial No. 619,894, published Apr. 14, 1953. Class 31.

Peter Pan Foundations, Inc., New York, N. Y. Brassières. 578,495, Aug. 11; Serial No. 626,262, published May 19, 1953. Class 39.

Peter Pan Ice Cream & Sandwich Shop, Inc., Chicago, Ill., assignor, by mesne assignments, to Peter Pan Restaurants, Inc. Restaurant service. 578,644, Aug. 11; Serial No. 604,218, published May 19, 1953. Class 100.

Peter Pan Restaurants, Inc., assignee: *See*—
Peter Pan Ice Cream & Sandwich Shop, Inc.

Petroleum Heat and Power Company, by Pittston Oil Company, Inc., New York, N. Y. Heating-furnace oils. 302,248, Apr. 4, 1933. Republished Aug. 11. Class 15.

Pittston Oil Company, Inc.: *See*—
Petroleum Heat and Power Company.

Pointers Publishing Company, Inc., Nashville, Tenn. Periodic publication. 578,678, Aug. 11; Serial No. 618,075. Class 38.

Polo Produce Company, to Polo Produce Inc., Chicago, Ill. Dressed poultry. 300,882, renewed Feb. 14, 1953. O. G. Aug. 11. Class 46.

Polo Produce Inc.: *See*—
Polo Produce Company.

Poloris Company, Inc., Jersey City, N. J. Tooth powder. 578,456, Aug. 11; Serial No. 618,759, published May 19, 1953. Class 51.

Pope Machinery Corporation, Haverhill, Mass. Shoe machinery. 295,432, June 28, 1932. Republished Aug. 11. Class 23.

Porter, C. C., to Coca-Cola Bottling Company, Holdrege, Nebr. Carbonated beverages. 92,121, re-renewed June 17, 1953. O. G. Aug. 11. Class 45.

Poust, Jack, & Company, Inc., New York, N. Y. Blackberry wine. 578,657, Aug. 11; Serial No. 580,145. Class 47.

Poust, Jack, & Company, Inc., New York, N. Y. Cherry wine. 578,659, Aug. 11; Serial No. 592,838. Class 47.

Pratt & Lambert, Inc., Buffalo, N. Y. Paint enamels. 301,847, Mar. 14, 1933. Republished Aug. 11. Class 16.

Prestwich, J. A., & Company Limited, London and Tottenham, London, England. Internal combustion engines and parts thereof. 578,487, Aug. 11; Serial No. 625,295, published Apr. 28, 1953. Class 23.

Prichard & Constance (Wholesale) Ltd., London, England, to Eno-Scott & Bowne, Bloomfield, N. J. Vanishing creams, brilliantine, liquid, paste, and powdee dentifrices, etc. 92,123, re-renewed June 17, 1953. O. G. Aug. 11. Class 51.

Professional Golfers' Association of America, The, Chicago, Ill. Instructing in the game of golf, etc. 578,653, Aug. 11; Serial No. 623,154, published May 19, 1953. Class 107.

Purex Corporation, Ltd., South Gate, Calif. General cleaning preparations. 578,630, Aug. 11; Serial No. 639,834, published May 19, 1953. Class 52.

Quincy Compressor Co., Quincy, Ill. Air compressors. 578,458, Aug. 11; Serial No. 619,519, published May 26, 1953. Class 23.

RWL Wine & Liquor Company, Incorporated, Baltimore, Md. Wines. 578,558, Aug. 11; Serial No. 635,098, published May 19, 1953. Class 47.

Ramos, Joaquin, doing business as Universal Botanic, Brooklyn, N. Y. Medicated liniment. 578,512, Aug. 11; Serial No. 628,169, published May 19, 1953. Class 18.

Raybestos-Manhattan, Inc., Passaic, N. J. Brake linings. 306,122, renewed Sept. 5, 1953. O. G. Aug. 11. Class 35.

Rayner & Company Limited, London, England. Non-alcoholic maltless soft drinks. 578,430, Aug. 11; Serial No. 602,776, published May 19, 1953. Class 45.

Raytex Industries, Inc., Chicago, Ill. Plastic coated fiber glass sheet material. 578,509, Aug. 11; Serial No. 627,774, published May 19, 1953. Class 1.

Red Devil Tools: *See*—
Smith, Landon P., Inc.

Red Devil Tools, Irvington, N. J. Wedges for tool handles. 578,418, Aug. 11; Serial No. 592,841, published May 19, 1953. Class 13.

Reid, Wright & Holloway (Distillers) Limited, London, England. Gin. 306,810, renewed Sept. 26, 1953. O. G. Aug. 11. Class 49.

Reliance Dental Mfg. Co., Chicago, Ill. Inlay pattern material. 578,503, Aug. 11; Serial No. 627,084, published May 12, 1953. Class 44.

Reliance Dental Mfg. Co., Chicago, Ill. Dental resinous cement. 578,552, Aug. 11; Serial No. 634,216, published May 12, 1953. Class 44.

Rexall Drug Company: *See*—
United Drug Company.

Richmond Underwear Co., The, Richmond, Ind., to The Atlas Underwear Company, Piqua, Ohio. Knitted underwear. 92,830, re-renewed July 29, 1953. O. G. Aug. 11. Class 39.

Rockford Machine Tool Co., Rockford, Ill. Hydraulically-operated duplicators for metal working machinery. 578,459, Aug. 11; Serial No. 619,549, published May 26, 1953. Class 23.

Roll Rain Co.: *See*—
Doppelmaier, George.

Rollins Fleet Leasing: *See*—
Rollins, John W.

Rollins, John W., trading as Rollins Fleet Leasing and also as John W. Rollins & Associates, Rehoboth Beach, Del. Leasing passenger cars, station wagons, commercial vehicles and trucks. 578,708, Aug. 11; Serial No. 639,659. Class 105.

Rollins, John W., & Associates: *See*—
Rollins, John W.

Rossi, Al, Produce Co.: *See*—
Rossi, Albert.

Rossi, Albert, doing business as Al Rossi Produce Co., Gonzales, Calif. Fresh vegetables. 578,544, Aug. 11; Serial No. 633,210, published May 12, 1953. Class 46.

Rothmans Limited, London, England. Cigarettes, cigars, and smoking tobacco. 578,697, Aug. 11; Serial No. 633,558. Class 17.

Rouse Lumber and Building Co., Houston, Tex. Piping, pipe fittings, valves, etc. 578,460, Aug. 11; Serial No. 619,682, published May 12, 1953. Class 13.

Royal Estates Tea Co., to Thomas J. Lipton, Inc., Hoboken, N. J. Tea. 304,758, renewed July 18, 1953. O. G. Aug. 11. Class 46.

Sahlein, J. M., doing business under the trade name of J. M. Sahlein Music Company, San Francisco, Calif. Accordions, cornets, trumpets, etc. 578,421, Aug. 11; Serial No. 503,617, published Apr. 14, 1953. Class 36.
Sahlein, J. M., Music Company: *See*—
Sahlein, J. M.
Sakioka Farms, Los Angeles and West Los Angeles, Calif. Fresh vegetables. 578,541, Aug. 11; Serial No. 632,691, published May 12, 1953. Class 46.
San-Nap-Pak Mfg. Co. Inc., to Doeskin Products, Inc., New York, N. Y. Sanitary napkins and sanitary belts. 303,714, renewed June 6, 1953. O. G. Aug. 11. Class 44.
Sargent & Company, New Haven, Conn. Pliers. 578,550, Aug. 11; Serial No. 633,682, published May 5, 1953. Class 23.
Sayles Finishing Plants, Inc., Saylesville, R. I., to Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y. Piece goods. 307,377, renewed Oct. 24, 1953. O. G. Aug. 11. Class 42.
Schaible Company, The, Cincinnati, Ohio. Quick opening and self closing gate valves. 578,424, Aug. 11; Serial No. 598,325, published May 12, 1953. Class 13.
Schenley Import Corporation, New York, N. Y. Wines. 578,514, Aug. 11; Serial No. 628,225, published May 19, 1953. Class 47.
Schleyer, E. C., Pump Company, Inc., Anderson, Ind. Finished castings for non-self-measuring pumps and pumping apparatus. 578,412, Aug. 11; Serial No. 588,522, published Apr. 28, 1953. Class 23.
Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. 578,586, Aug. 11; Serial No. 637,955, published May 12, 1953. Class 39.
Seaboard Mills, Santa Barbara, Calif. Dried beans, dried peas, rice, etc. 578,399, Aug. 11; Serial No. 564,406, published May 12, 1953. Class 46.
Sealy, Incorporated, Chicago, Ill. Mattresses, box springs, sofa beds, etc. 578,391, Aug. 11; Serial No. 557,871, published May 19, 1953. Class 32.
See-Qual Package Corp., Brooklyn, N. Y. Plastic container trays. 578,540, Aug. 11; Serial No. 633,591, published May 12, 1953. Class 2.
Seminole Flavor Company, Chattanooga, Tenn. Cola variety of carbonated nonalcoholic noncereal maltless beverages. 578,383, Aug. 11; Serial No. 518,984, published May 19, 1953. Class 45.
Sherman Bros. Mfg. Co., The, South Norwalk, Conn. Fabric and leather shoes and slippers. 392,760, Jan. 13, 1942. Republished Aug. 11. Class 39.
Siegel Brothers, Inc., to Lewds Ltd, Coats, Inc., New York, N. Y. Misses' and ladies' coats. 304,373, renewed July 4, 1953. O. G. Aug. 11. Class 39.
Silicote Corporation, The, Oshkosh, Wis. Lubricant and protectant. 578,611, Aug. 11; Serial No. 638,670, published May 12, 1953. Class 15.
Skelly Oil Company, Kansas City, Mo. Domestic refrigerators and home type food freezing units. 578,498, Aug. 11; Serial No. 626,349, published Apr. 7, 1953. Class 31.
Slip-Not Belting Corporation, Kingsport, Tenn. Check straps. 578,666, Aug. 11; Serial No. 606,837. Class 23.
Smallman, L. & Sons, Paterson, N. J., and New York, N. Y. Billfolds, wallets, key cases and pass cases. 578,610, Aug. 11; Serial No. 638,610, published May 12, 1953. Class 3.
Smith, Landon P., Inc., by Red Devil Tools, Irvington, N. J. Tools. 263,729, Nov. 12, 1929. Republished Aug. 11. Class 23.
Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France. Wines. 578,397, Aug. 11; Serial No. 563,535, published May 5, 1953. Class 47.
Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France. Wines. 578,398, Aug. 11; Serial No. 563,539, published May 5, 1953. Class 47.
Societe Le Carbone Lorraine, Paris, France. Tungsten-carbide and hard metal blanks. 578,602, Aug. 11; Serial No. 638,330, published Apr. 28, 1953. Class 14.
Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical product. 307,608, Oct. 10, 1933. Amended. O. G. Aug. 11. Class 6.
Socony Paint Products Company, Raritan Township, Middlesex County, N. J. Ready mixed paints. 578,601, Aug. 11; Serial No. 638,322, published May 19, 1953. Class 16.
Solvay Process Company, The, New York, N. Y. Preparations used as cleansing agents. 398,201, Oct. 13, 1942. Amended. O. G. Aug. 11. Class 4.
Southern States Cooperative, Incorporated, Richmond, Va. Poultry feed. 578,689, Aug. 11; Serial No. 627,151. Class 46.
Sparkler Mfg. Co., Mundelein, Ill. Filters. 578,480, Aug. 11; Serial No. 624,708, published Apr. 14, 1953. Class 31.
Spotnails, Inc., Evanston, Ill. Manual stapling machines. 578,533, Aug. 11; Serial No 631,822, published May 19, 1953. Class 23.
Squirt Company, The, assignee: *See*—
Towsley, Inc.
Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Cotton thread. 307,735, renewed Oct. 31, 1953. O. G. Aug. 11. Class 43.
Standard Foundry Company, Racine, Wis. Metal castings. 578,484, Aug. 11; Serial No. 625,136, published May 5, 1953. Class 14.
Standard Ribbon Co., New York, N. Y. Seam binding. 578,673, Aug. 11; Serial No. 615,581. Class 40.
Stanley Home Products, Inc.: *See*—
Kelley, Maude T.
Star-Lite Merchandise Co., New York, N. Y. Hosiery and underwear. 530,031, Aug. 29, 1950. Canceled July 3, 1953. O. G. Aug. 11. Class 39.
Statler Mfg. Co., Chicago, Ill. Wallet inserts. 578,692, Aug. 11; Serial No. 629,532. Class 3.
Stein, S., & Co., Inc., New York, N. Y. Woolen suiting and coat fabrics. 578,428, Aug. 11; Serial No. 602,004, published Aug. 19, 1952. Class 42.
Steiner Sales Company Division of American Linen Supply Co.: *See*—
American Linen Supply Co.
Stephano Brothers, Philadelphia, Pa. Cigarettes. 307,700, renewed Oct. 31, 1953. O. G. Aug. 11. Class 17.
Sternberg, Norman, Newark, N. J. Life insurance bulletins. 578,683–4, Aug. 11; Serial Nos. 623,992–3. Class 38.
Sunkist Growers, Inc., Los Angeles, Calif. Citrus flavored soft drinks and concentrates for making the same, etc. 578,492, Aug. 11; Serial No. 626,009, published May 26, 1953. Class 45.
Surgicon Corporation, New York, N. Y. Hospital equipment. 578,485, Aug. 11; Serial No. 625,219, published May 12, 1953. Class 44.
Swift & Company, Chicago, Ill. Stabilizer for ice cream and other confections. 578,639, Aug. 11; Serial No. 640,818, published May 12, 1953. Class 46.
Taconic Farms, Inc., Germantown, N. Y. Mice for laboratory use. 578,546, Aug. 11; Serial No. 633,278, published May 5, 1953. Class 1.
Tamko Asphalt Products, Inc., Joplin, Mo. Asphalt shingles, asphalt sidings, roll roofings, etc. 578,604, Aug. 11; Serial No. 631,764. Class 12.
Temco Aircraft Corporation, Grand Prairie and Dallas, Tex. Airplanes and the structural or body parts of airplanes. 578,548, Aug. 11; Serial No. 633,395, published May 19, 1953. Class 19.
Tennessee Eastman Corporation, Kingsport, Tenn., to Eastman Kodak Company, Rochester, N. Y. Anti-freeze compound. 304,653, renewed July 11, 1953. O. G. Aug. 11. Class 6.
Textor Chemical Co., Rockford, Ill. High test aviation type gasoline. 578,661, Aug. 11; Serial No. 598,552. Class 15.
Tidy House Paper Corp. of N. Y.: *See*—
Tidy-House Paper Products, Inc.
Tidy-House Paper Products, Inc., Brooklyn, N. Y., now by change of name Tidy House Paper Corp. of N. Y. Paper household products—namely, sandwich bags, etc. 578,572, Aug. 11; Serial No. 636,156, published May 12, 1953. Class 2.
Tobin Packing Co., Inc., Rochester, N. Y., and Fort Dodge, Iowa. Meat products. 578,490, Aug. 11; Serial No. 526,496, published May 12, 1953. Class 46.
Todd Company, Inc., The, Rochester, N. Y. Check-protecting machines and check-signing machines. 284,809, July 7, 1931. Republished Aug. 11. Class 23.
Todd Company, Inc., The, Rochester, N. Y. Business forms. 294,297, May 24, 1932. Republished Aug. 11. Class 37.
Tomat-O-Pep Company, San Jose, Calif. Tomato drink. 578,417, Aug. 11; Serial No. 592,794, published May 12, 1953. Class 46.
Torgun Corporation, The, New York, N. Y. High density woodfibre hardboard. 578,685, Aug. 11; Serial No. 625,083. Class 12.
Towsley, Inc., Indianapolis, Ind., assignor, by mesne assignments, to The Squirt Company, Beverly Hills, Calif. Liquid laundry soap. 578,415, Aug. 11; Serial No. 590,241, published Dec. 16, 1952. Class 52.
Tree Tool & Die Works, Racine, Wis. Metal working machines. 578,483, Aug. 11; Serial No. 624,982, published May 19, 1953. Class 23.
Triangle Package Machinery Company, Chicago, Ill. Apparatus for automatically regulating the viscosity of an adhesive solution. 578,427, Aug. 11; Serial No. 601,581, published Apr. 7, 1953. Class 26.
Triangle Paper and Box Co., Chicago, Ill. Corrugated paperboard cartons. 578,388, Aug. 11; Serial No. 539,916, published May 19, 1953. Class 2.
Turner Brothers Asbestos Company Limited: *See*—
Turner Brothers, Limited.
Turner Brothers Asbestos Company Limited, Manchester and Rochdale, England. Flock moulding material and felt moulding material. 578,568, Aug. 11; Serial No. 635,942, published May 19, 1953. Class 1.
Turner Brothers, Limited, Spotland, Rochdale, to Turner Brothers Asbestos Company Limited, Manchester, England. Packings, jointing materials, and miscellaneous packings. 40,433, re-renewed May 26, 1953. O. G. Aug. 11. Class 35.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 578,631, Aug. 11; Serial No. 639,909, published May 19, 1953. Class 2.
Unite Pharmaceutique Francaise: *See*—
Herradora, Marco A.
United-Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Olive oil. 303,395, renewed May 23, 1953. O. G. Aug. 11. Class 46.



United Equipment Co., Chicago, Ill. Tool stands and work benches. 578,526, Aug. 11; Serial No. 630,740, published May 5, 1953. Class 23.
United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. 578,590, Aug. 11; Serial No. 637,736, published Apr. 28, 1953. Class 42.
U. S. Plastic Co., Pasadena, Calif. Toy guns. 578,564, Aug. 11; Serial No. 635,615, published May 19, 1953. Class 22.
United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. 578,691, Aug. 11; Serial No. 628,791. Class 22.
United States Rubber Company, New York, N. Y. Thermosetting plastic material. 578,567, Aug. 11; Serial No. 635,890, published May 12, 1953. Class 1.
United States Rubber Company, New York, N. Y. Pneumatic tires and inner tubes. 578,605, Aug. 11; Serial No. 638,504, published May 19, 1953. Class 35.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Steel strapping and seals for flat steel strapping. 578,542, Aug. 11; Serial No. 632,963, published May 26, 1953. Class 13.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Empty metal containers. 578,621, Aug. 11; Serial No. 639,348, published May 12, 1953. Class 2.
United States Steel Corporation: *See*—
United States Steel Company.
Universal Botanic: *See*—
Ramos, Joaquin.
Universal Winding Company, Cranston, R. I. Machines and parts thereof for winding thread, yarn, etc. 578,534, Aug. 11; Serial No. 634,502, published Apr. 28, 1953. Class 23.
Vanity Fair Mills, Inc., Reading, Pa. Women's and children's apparel. 578,545, Aug. 11; Serial No. 633,231, published May 19, 1953. Class 39.
Victorlite Industries, Los Angeles, Calif. Still picture projecting machines. 423,680, Sept. 10, 1946. Canceled June 12, 1953. O. G. Aug. 11. Class 26.
Victory Packing Co., Los Angeles, Calif. Canned chopped horse meat. 578,693, Aug. 11; Serial No. 630,555. Class 46.
Vindobona Importing Co.: *See*—
Zelinka, Hans G.
Vitaminerals, Inc.: *See*—
Herradora, Marco A.
Walker, Peter, (Warrington) Limited, Liverpool, England. Scotch whisky. 578,560, Aug. 11; Serial No. 635,561, published May 26, 1953. Class 49.
Walsh, James, & Company, Inc., Lawrenceburg, Ind. Bourbon whiskey. 578,517, Aug. 11; Serial No. 628,512, published May 19, 1953. Class 49.
Washington Co-operative Farmers Association, Seattle, Wash. Various products—namely, shell eggs, frozen egg whites, etc. 578,589, Aug. 11; Serial No. 636,830, published May 12, 1953. Class 46.
Wausau Paper Mills Company, Brokaw, Wis. Bond, vellum, mimeograph, stencil, duplicating and copying paper. 578,607, Aug. 11; Serial No. 007,363. Class 37.
West Shore Chain Works, Inc., Carlisle and Lemoyne, Pa. Twin emergency chains. 578,557, Aug. 11; Serial No. 635,013, published May 19, 1953. Class 13.
Western Peat Company Limited, Lulu Island, British Columbia, Canada. Horticultural peat moss. 578,468, Aug. 11; Serial No. 621,641, published May 12, 1953. Class 1.
Whale Oil Company Incorporated, Brooklyn, N. Y. Lubricating oil. 578,437, Aug. 11; Serial No. 609,895, published May 12, 1953. Class 15.
Whale Oil Company Incorporated, Brooklyn, N. Y. Lubricating oil. 578,490, Aug. 11; Serial No. 626,281, published May 12, 1953. Class 15.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Bond paper. 264,006, Nov. 12, 1929. Republished Aug. 11. Class 37.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 578,598, Aug. 11; Serial No. 637,968, published May 12, 1953. Class 46.
Wilton Tool Mfg. Co., Chicago, Ill. Lawn sprinklers. 578,586, Aug. 11; Serial No. 637,199, published May 26, 1953. Class 13.
Wine Growers Guild, Lodi, Calif. Wines. 578,450, Aug. 11; Serial No. 615,671, published May 19, 1953. Class 47.
Wiser's Distillery Limited, Montreal, Quebec, Canada. Canadian whisky. 578,431, Aug. 11; Serial No. 605,623, published May 19, 1953. Class 49.
Wishard, Walter H., Waynesboro, Pa. Fresh apples and fresh peaches. 578,604, Aug. 11; Serial No. 638,461, published May 12, 1953. Class 46.
Wix Accessories Corporation, Gastonia, N. C., now by change of name, Wix Corporation. Filter cartridges and filters. 578,479, Aug. 11; Serial No. 624,255, published Apr. 14, 1953. Class 31.
Wix Corporation: *See*—
Wix Accessories Corporation.
Wong, Jade S.: *See*—
Ong, Constance.
Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation. Hydraulic decoking systems and apparatus for removing coke from coke chambers, hydraulic log debarking apparatus, etc. 578,384, Aug. 11; Serial No. 526,727, published May 19, 1953. Class 23.
Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation. Hydraulic decoking systems and apparatus for removing coke from coke chambers, hydraulic log debarking apparatus, etc. 578,385, Aug. 11; Serial No. 526,737, published May 19, 1953. Class 23.
Worthington Pump and Machinery Corporation: *See*—
Worthington Corporation.
Wright, G. F., Steel & Wire Co., Worcester, Mass. Woven wire netting. 578,386, Aug. 11; Serial No. 529,519, published May 19, 1953. Class 13.
Young, W. F., Inc., Springfield, Mass. Soap. 292,032, Mar. 1, 1932. Republished Aug. 11. Class 52.
Young, W. F., Inc., Springfield, Mass. Soap. 293,816, May 3, 1932. Republished Aug. 11. Class 52.
Zelinka, Hans G., doing business as Vindobona Importing Co., New York, N. Y. Scythes, hand-sickles, and trowels. 578,511, Aug. 11; Serial No. 628,077, published Apr. 21, 1953. Class 23.
Zimmer Boat & Trailer Co., Detroit, Mich. House trailers. 578,642, Aug. 11; Serial No. 643,751, published May 19, 1953. Class 19.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Clays. American Colloid Company. 578,532, Aug. 11; Serial No. 631,774, published May 12, 1953.
Coal. Dickson Fuel Corp. 578,540, Aug. 11; Serial No. 632,509, published May 5, 1953.
Flock moulding material and felt moulding material. Turner Brothers Asbestos Company Limited. 578,568, Aug. 11; Serial No. 635,942, published May 19, 1953.
Flowers, Cut. Coastal Glads Farm. 578,491, Aug. 11; Serial No. 625,847, published May 12, 1953.
Leather. Amer, William, Company. 578,538, Aug. 11; Serial No. 632,193, published May 5, 1953.
Leather. Hebb Leather Co., Inc. 578,577, Aug. 11; Serial No. 626,567, published May 19, 1953.
Leather. Malis Leather Company. 578,559, Aug. 11; Serial No. 635,368, published May 5, 1953.
Leathers, Thin. Hoyt and Worthen Tanning Corporation. 578,422, Aug. 11; Serial No. 594,462, published May 19, 1953.
Mice for laboratory use. Taconic Farms, Inc. 578,546, Aug. 11; Serial No. 633,278, published May 5, 1953.
Partially humified peat. Hyper-Humus Company. 578,477, Aug. 11; Serial No. 623,959, published May 12, 1953.
Peat moss. Atkins & Durbrow, Inc. 307,636, renewed Oct. 31, 1953. O. G. Aug. 11.
Peat moss, Horticultural. Western Peat Company Limited. 578,468, Aug. 11; Serial No. 621,641, published May 12, 1953.
Plastic coated fiber glass sheet material. Raytex Industries, Inc. 578,509, Aug. 11; Serial No. 627,774, published May 19, 1953.
Thermosetting plastic material. United States Rubber Company. 578,567, Aug. 11; Serial No. 635,890, published May 12, 1953.
Wyoming type bentonite. American Colloid Company. 578,494, Aug. 11; Serial No. 626,133, published May 12, 1953.

## CLASS 2

Bags and sacks, Paper containers of all kinds, etc. Gaylord Container Corporation. 578,623, Aug. 11; Serial No. 639,424, published May 12, 1953.
Bags, Paper. Union Bag & Paper Corporation. 578,631, Aug. 11; Serial No. 639,909, published May 19, 1953.
Bags, Waxed paper. Marathon Corporation. 578,624, Aug. 11; Serial No. 639,484, published May 12, 1953.
Baskets, Hamper, baby baskets, laundry baskets, etc. Burlington Basket Company. 578,446, Aug. 11; Serial No. 613,498, published May 12, 1953.
Boxes. R. A. Bushnell. 578,555, Aug. 11; Serial No. 634,729, published May 12, 1953.
Cabinets for dispensing paper towels. American Linen Supply Co. 578,410, Aug. 11; Serial No. 580,871, published May 19, 1953.
Cartons, Corrugated paperboard. Triangle Paper and Box Co. 578,388, Aug. 11; Serial No. 539,916, published May 19, 1953.
Cartons, Paper. Marathon Corporation. 578,628, Aug. 11; Serial No. 639,764, published May 12, 1953.
Cases, Compartmented fabric. Eureka Williams Corporation. 578,387, Aug. 11; Serial No. 529,617, published May 19, 1953.
Containers, Empty metal. United States Steel Company. 578,621, Aug. 11; Serial No. 639,348, published May 12, 1953.

Drum liners, Plastic, and bags. Hedwin Corporation. 578,474, Aug. 11; Serial No. 622,597, published May 12, 1953.
Paper household products—namely sandwich bags, etc. Tidy-House Paper Products, Inc. 578,572, Aug. 11; Serial No. 636,156, published May 12, 1953.
Trash cans, Metal. The F. H. Lawson Company. 578,522, Aug. 11; Serial No. 630,087, published May 12, 1953.
Trays, Plastic container. See-Qual Package Corp. 578,549, Aug. 11; Serial No. 633,591, published May 12, 1953.

CLASS 3

Billfolds, pass cases, purses, etc. Buxton, Incorporated. 578,592, Aug. 11; Serial No. 637,750, published May 12, 1953.
Billfolds, wallets, key cases and pass cases. I. Smallman & Sons. 578,610, Aug. 11; Serial No. 638,010, published May 12, 1953.
Casings for the display of animal identification tags, Plastic. W. J. McHugh. 578,672, Aug. 11; Serial No. 614,002.
Travel bags, Garment. M. L. Duskin. 578,599, Aug. 11; Serial No. 638,136, published May 12, 1953.
Traveling bags and suitcases. Mayfab Inc. 578,579, Aug. 11; Serial No. 636,719, published May 12, 1953.
Wallet inserts. Statler Mfg. Co. 578,692, Aug. 11; Serial No. 620,532.

CLASS 4

Paints, Dry and ready mixed, and paint pigments, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,152, renewed Feb. 21, 1953. O. G. Aug. 11.
Preparations used as cleansing agents. The Solvay Process Company. 398,201, Oct. 13, 1942. Amended. O. G. Aug. 11.

CLASS 5

Paste. A. M. Holt, III. 578,467, Aug. 11; Serial No. 621,315, published May 19, 1953.
Purified protein from leguminous seeds for use as an ingredient in the manufacture of adhesives, More or less G. Davidson. 578,407, Aug. 11; Serial No. 579,863, published May 19, 1953.
Solids of waste sulfite liquor, for use as an adhesive and adhesive extender. Crown Zellerbach Corporation. 578,629, Aug. 11; Serial No. 639,810, published May 19, 1953.
Tape, Pressure sensitive paper. Chicago Show Printing Co. 578,633, Aug. 11; Serial No. 640,035, published May 19, 1953.

CLASS 6

Anti-freeze compound. Tennessee Eastman Corporation. 304,653, renewed July 11, 1953. O. G. Aug. 11.
Branding liquid. The O. M. Franklin Blackleg Serum Company. 305,772, renewed Aug. 22, 1953. O. G. Aug. 11.
Chemical compounds and compositions. General Dyestuff Corporation. 578,634, Aug. 11; Serial No. 640,396, published May 19, 1953.
Chemicals. Multigraph Company. 307,408, renewed Oct. 24, 1953. O. G. Aug. 11.
Coal-tar colors. Ciba Limited. 578,452, Aug. 11; Serial No. 617,228, published Mar. 25, 1952.
Containers filled with deodorant and gas. Knapp-Monarch Company. 578,418, Aug. 11; Serial No. 591,241, published May 19, 1953.
Creme shoe dressing. Hart & Harrington, Inc. 578,606–7, Aug. 11; Serial Nos. 638,536–7, published May 19, 1953.
Dry coatings for braking, clutching, and like surfaces. Cop-Sil-Loy, Inc. 578,457, Aug. 11; Serial No. 619,500, published May 19, 1953.
Household deodorant. Bostwick Laboratories, Inc. 578,413, Aug. 11; Serial No. 588,544, published Sept. 16, 1952.
Pharmaceutical product. Society of Chemical Industry in Basle. 307,008, Oct. 10, 1933. Amended. O. G. Aug. 11.
Sodium salt of a synthetic amino acid. Bersworth Chemical Company. 578,635, Aug. 11; Serial No. 640,490, published May 19, 1953.
Synthetic resinous compositions. Marbon Corporation. 578,640, Aug. 11; Serial No. 642,150, published May 19, 1953.
Unvulcanized organopolysiloxane elastomers. Dow Corning Corporation. 578,636–7, Aug. 11; Serial Nos. 640,552–3, published May 19, 1953.

CLASS 8

Ash tray, Smokers'. C. C. Manufacturing Company. 578,670, Aug. 11; Serial No. 612,154.
Ash trays. J. B. Henasey. 578,663, Aug. 11; Serial No. 602,761.
Ash trays and cigarette boxes, Enameled copperware. C. Oag. 578,455, Aug. 11; Serial No. 618,324, published May 19, 1953.
Filters used to form a component part of cigarettes. P. Lorillard Company. 578,478, Aug. 11; Serial No. 624,092, published May 19, 1953.

CLASS 11

Carbon paper, typewriter ribbons, inks. The Ault & Wiborg Company. 305,218, renewed Aug. 8, 1953. O. G. Aug. 11.

CLASS 12

Hardboard used for various construction purposes, Embossed. Masonite Corporation. 578,403, Aug. 11; Serial No. 577,063, published Jan. 13, 1953.
Panel board, Decorative. Fleming & Sons, Inc. 578,698, Aug. 11; Serial No. 634,583.
Paving material, Bituminous. The Interstate Andesite Co., Inc. 307,716, renewed Oct. 31, 1953. O. G. Aug. 11.
Shingles, Asphalt, asphalt sidings, roll roofings, etc. Tamko Asphalt Products, Inc. 578,694, Aug. 11; Serial No. 631,764.
Windows and screens, Combination storm. The Home Window Company. 578,674, Aug. 11; Serial No. 616,854.
Woodfibre hardboard, High density. The Torgun Corporation. 578,685, Aug. 11; Serial No. 625,083.

CLASS 13

Baking sheets, baking pans, and cooking pans, Metal. Evanston Stamping Company. 578,565, Aug. 11; Serial No. 635,752, published May 12, 1953.
Bronze, aluminum, and steel insect screen cloth, etc. Pacific Wire Products Company. 578,576, Aug. 11; Serial No. 636,535, published May 26, 1953.
Chains, Twin emergency. West Shore Chain Works, Inc. 578,557, Aug. 11; Serial No. 635,013, published May 19, 1953.
Corn poppers. The Enterprise Aluminum Company. 578,594, Aug. 11; Serial No. 637,707, published May 12, 1953.
Faucets and hydrants. The James Knights Company. 578,513, Aug. 11; Serial No. 628,212, published May 12, 1953.
Fluid treating pipe line and entrance fittings. Evis Manufacturing Company. 578,489, Aug. 11; Serial No. 625,470, published May 26, 1953.
Lawn sprinklers. Wilton Tool Mfg. Co. 578,586, Aug. 11; Serial No. 637,199, published May 26, 1953.
Nozzles, Fire-hose. The McIntire Corporation. 578,515, Aug. 11; Serial No. 628,361, published May 12, 1953.
Nozzles, Fire-hose. The McIntire Corporation. 578,516, Aug. 11; Serial No. 628,362, published May 19, 1953.
Piping, pipe fittings, valves, etc. House Lumber and Building Co. 578,460, Aug. 11; Serial No. 619,682, published May 12, 1953.
Poultry netting, wire fabric, and wire fence. The Colorado Fuel and Iron Corporation. 578,600, Aug. 11; Serial No. 638,290, published May 19, 1953.
Screen cloth, Aluminum insect. Pacific Wire Products Company. 578,595, Aug. 11; Serial No. 637,883, published May 12, 1953.
Screen cloth, Galvanized insect. Pacific Wire Products Company. 578,597, Aug. 11; Serial No. 637,884, published May 12, 1953.
Sprinkling apparatus, Field. G. Dopplmaier. 578,441, Aug. 11; Serial No. 613,402, published May 26, 1953
Staples, Strips of. The Bates Manufacturing Company. 578,582, Aug. 11; Serial No. 636,875, published May 26, 1953.
Steel curtain track. Automatic Devices Co. 578,589, Aug. 11; Serial No. 637,563, published May 26, 1953.
Steel strapping and seals for flat steel strapping. United States Steel Company. 578,542, Aug. 11; Serial No. 632,963, published May 26, 1953.
Valves, Quick opening and self closing gate. The Schnible Company. 578,424, Aug. 11; Serial No. 598,325, published May 12, 1953.
Wedges for tool handles. Red Devil Tools. 578,418, Aug. 11; Serial No. 592,841, published May 19, 1953.
Wire netting, Woven. G. F. Wright Steel & Wire Co. 578,386, Aug. 11; Serial No. 529,519, published May 19, 1953.

CLASS 14

Aluminum foil. Arthur Doniger Paper Co., Inc. 578,529, Aug. 11; Serial No. 630,885, published May 12, 1953.
Anvils. Illinois Iron & Bolt Co. 578,486, Aug. 11; Serial No. 625,275, published May 12, 1953.
Copper. The Cananea Consolidated Copper Co. 578,620, Aug. 11; Serial No. 639,262, published May 5, 1953.
Metal castings. Standard Foundry Company. 578,484, Aug. 11; Serial No. 625,136, published May 5, 1953.
Metal foil. The Aluminum Cooking Utensil Company. 578,501, Aug. 11; Serial No. 626,652, published Apr. 28, 1953.
Metal rails, joints, and tie plates. The Colorado Fuel and Iron Corporation. 578,615, Aug. 11; Serial No. 638,837, published May 5, 1953.
Metal stock, Ground flat. American Saw and Manufacturing Company. 578,451, Aug. 11; Serial No. 616,805, published Apr. 28, 1953.
Metallic solder. Eutectic Welding Alloys Corporation. 578,619, Aug. 11; Serial No. 639,164, published May 5, 1953.
Metallic welding electrodes and gas welding rods. Eutectic Welding Alloys Corporation. 578,626, Aug. 11; Serial No. 639,750, published May 5, 1953.
Metals, Precious, and non-precious metals. Deutsche Gold- & Silber-Scheideanstalt. 301,150, renewed Feb. 21, 1953. O. G. Aug. 11.



Tungsten-carbide and hard metal blanks. Societe Le Carbone Lorraine. 578,602, Aug. 11; Serial No. 638,330, published Apr. 28, 1953.
Welding rod, cylinder blocks, a special machineable iron, etc. General Metallurgical Corporation. 578,429, Aug. 11; Serial No. 602,445, published Apr. 28, 1953.

CLASS 15

Gasoline, High test aviation type. Testor Chemical Co. 578,661, Aug. 11; Serial No. 598,552.
Lubricant and protectant. The Silicote Corporation. 578,611, Aug. 11; Serial No. 638,670, published May 12, 1953.
Lubricants, Upper motor. Lubrsa Oil Corporation. 306,920, renewed Oct. 3, 1953. O. G. Aug. 11.
Oil, Lubricating. Whale Oil Company Incorporated. 578,437, Aug. 11; Serial No. 609,895, published May 12, 1953.
Oil, Lubricating. Whale Oil Company Incorporated. 578,496, Aug. 11; Serial No. 626,281, published May 12, 1953.
Oils, Fuel, lubricating oils, lubricating greases, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,151, renewed Feb. 21, 1953. O. G. Aug. 11.
Oils, Heating-furnace. Petroleum Heat and Power Company. 302,248, Apr. 4, 1933. Republished Aug. 11.
Oils, Lubricating. L. M. Goldman. 354,784, Feb. 22, 1938. Republished Aug. 11.

CLASS 16

Coating composition, Protective. Emjay Maintenance Corporation. 578,488, Aug. 11; Serial No. 625,469, published May 19, 1953.
Coloring material for inter-mixing, blending and tinting water paints, etc. Keystone Paint and Varnish Corporation. 578,591, Aug. 11; Serial No. 637,598, published May 19, 1953.
Paint enamels. Pratt & Lambert, Inc. 301,847, Mar. 14, 1933. Republished Aug. 11.
Paints, Dry, paste, and ready-mixed; paint enamels, varnishes, etc. The Ault & Wiborg Varnish Works, Inc. 305,100–5, renewed Aug. 1, 1953. O. G. Aug. 11.
Paints, Ready mixed. The Patterson-Sargent Company. 299,887, renewed Dec. 27, 1952. O. G. Aug. 11.
Paints, Ready mixed. Socony Paint Products Company. 578,601, Aug. 11; Serial No. 638,322, published May 19, 1953.
Varnishes, treated oils used as paint vehicles, bronzing liquids, etc. The Ault & Wiborg Varnish Works, Inc. 307,109, renewed Oct. 17, 1953. O. G. Aug. 11.
Water wash compound for preventing adhesion of paint to spray booths. Northwest Chemlent Co., Inc. 578,473, Aug. 11; Serial No. 622,550, published May 19, 1953.

CLASS 17

Cigarettes. Morris, Philip, & Co. Ltd., Incorporated. 578,704, Aug. 11; Serial No. 644,432.
Cigarettes. Stephano Brothers. 307,700, renewed Oct. 31, 1953. O. G. Aug. 11.
Cigarettes, cigars, and smoking tobacco. Rothmans Limited. 578,697, Aug. 11; Serial No. 633,558.
Snuff. George W. Helme Company. 578,393–4, Aug. 11; Serial Nos. 562,040–1, published May 19, 1953.
Snuff. George W. Helme Company. 578,395, Aug. 11; Serial No. 562,048, published May 19, 1953.
Snuff. George W. Helme Company 578,396, Aug. 11; Serial No. 562,054, published May 19, 1953.

CLASS 18

Bromine derivatives of saligenin. Hynson, Westcott & Dunning, Incorporated. 307,316, renewed Oct. 24, 1953. O. G. Aug. 11.
Food supplement. Keyamin, Inc. 578,551, Aug. 11; Serial No. 634,088, published May 19, 1953.
Liniment, Medicated. J. Ramos. 578,572, Aug. 11; Serial No. 628,109, published May 19, 1953.
Medicinal dentifrice, Ammoniated. Lehn & Fink Products Corporation. 528,498, Aug. 1, 1950. Canceled June 23, 1953. O. G. Aug. 11.
Medicinal preparation. Eli Lilly and Company. 578,583, Aug. 11; Serial No. 637 059, published May 19, 1953.
Medicinal preparation. Eli Lilly and Company. 578,584, Aug. 11; Serial No. 637,061, published May 19, 1953.
Medicinal preparation. Eli Lilly and Company. 578,585, Aug. 11; Serial No. 637,063, published May 19, 1953.
Medicinal preparation. Eli Lilly and Company. 578,614, Aug. 11; Serial No. 638,727, published May 12, 1953.
Medicinal preparations. Arcady Laboratories, Inc. 304,148, renewed June 20, 1953. O. G. Aug. 11.
Medicine for internal use. A. H. Marco. 301,529, renewed Mar. 7, 1953. O. G. Aug. 11.
Pharmaceutical preparations. Old Peacock Sultan Company. 303,320, renewed May 23, 1953. O. G. Aug. 11.
Pills for headache, dizziness, etc. The Granger Medicine Co., Inc. 300,023, renewed Jan. 3, 1953. O. G. Aug. 11.
Sedative. American Cyanamid Company. 578,404, Aug. 11; Serial No. 620,834, published May 19, 1953.

CLASS 19

Airplanes and the structural or body parts of airplanes. Temco Aircraft Corporation. 578,548, Aug. 11; Serial No. 633,395, published May 19, 1953.
Airplanes, motor boats, sail boats, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,153, renewed Feb. 21, 1953. O. G. Aug. 11.
Cycles—namely bicycles, tricycles, etc. The Hercules Cycle and Motor Company Limited. 303,186, renewed May 16, 1953. O. G. Aug. 11.
Trailers, House. Zimmer Boat & Trailer Co. 578,642, Aug. 11; Serial No. 643,751, published May 19, 1953.

CLASS 21

Armatures; Insulation materials, electric fans, etc. Deutsche Gold- & Silber-Scheideanstalt. 301,154, renewed Feb. 21, 1953. O. G. Aug. 11.
Lamps, Electric incandescent, discharge lamps, auxiliary apparatus for use in the electric lighting field, etc. N. V. Pope's Draad- En Lampenfabrieken. 578,675, Aug. 11; Serial No. 617,552.
Transformers. Cable Electric Products, Inc. 578,695, Aug. 11; Serial No. 632,288.

CLASS 22

Fish baits, Artificial. Glo-Lure, Inc. 578,569, Aug. 11; Serial No. 636,012, published May 19, 1953.
Fish lures, Artificial. Fury Manufacturing Company. 578,571, Aug. 11; Serial No. 636,073, published May 19, 1953.
Playing cards. The United States Playing Card Company. 578,691, Aug. 11; Serial No. 628,791.
Puzzles. The Judy Company. 578,570, Aug. 11; Serial No. 630,021, published May 19, 1953.
Rocking horses. C. A. Cook. 578,686, Aug. 11; Serial No. 625,098.
Toy guns. U. S. Plastic Co. 578,564, Aug. 11; Serial No. 635,815, published May 19, 1953.
Toy model coupling devices. American Model Toys, Inc. 578,578, Aug. 11; Serial No. 636,674, published May 19, 1953.

CLASS 23

Air compressors. Quincy Compressor Co. 578,458, Aug. 11; Serial No. 619,519, published May 26, 1953.
Apparatus for reclaiming used sand. National Engineering Company. 578,423, Aug. 11; Serial No. 594,916, published May 5, 1953.
Automatic transmissions. The Frank G. Hough Co. 578,609, Aug. 11; Serial No. 638,582, published Apr. 28, 1953.
Balance reels, General service, spring operated. Appleton Electric Company. 578,436, Aug. 11; Serial No. 608,588, published May 26, 1953.
Brakes and brake assemblies, Nonelectric, chain and sprocket drive mechanisms, carburetors, etc. Borg-Warner Corporation. 578,414, Aug. 11; Serial No. 589,558, published May 5, 1953.
Check-protecting machines and check-signing machines. The Todd Company, Inc. 284,809, July 7, 1931. Republished Aug. 11.
Check straps. Slip-Not Belting Corporation. 578,666, Aug. 11; Serial No. 606,837.
Duplicators for metal working machinery, Hydraulically-operated. Rockford Machine Tool Co. 578,459, Aug. 11; Serial No. 619,549, published May 26, 1953.
Finished castings for non-self-measuring pumps and pumping apparatus. E. C. Schleyer Pump Company, Inc. 578,412, Aug. 11; Serial No. 588,522, published Apr. 28, 1953.
Gears, Precision finished metal. Indiana Gear Works Inc. 578,493, Aug. 11; Serial No. 626,033, published Apr. 28, 1953.
Hand-operated machines for the processing of meat. Lan-Elec Limited. 578,482, Aug. 11; Serial No. 624,838, published May 19, 1953.
Hand operated seed and fertilizer spreaders, cultivators, etc. The National Ideal Company. 578,465, Aug. 11; Serial No. 620,927, published Apr. 28, 1953.
Hydraulic decoking systems and apparatus for removing coke from coke chambers, hydraulic log debarking apparatus, etc. Worthington Corporation. 578,384, Aug. 11; Serial No. 526,727, published May 19, 1953.
Hydraulic decoking systems and apparatus for removing coke from coke chambers, hydraulic log debarking apparatus, etc. Worthington Corporation. 578,385, Aug. 11; Serial No. 526,737, published May 19, 1953.
Internal combustion engines and parts thereof. J. A. Prestwich & Company Limited. 578,487, Aug. 11; Serial No. 625,295, published Apr. 28, 1953.
Lawn mowers and parts thereof, Power driven. Paul Hainke Mfg. Co. 578,638, Aug. 11; Serial No. 640,628, published May 19, 1953.
Machine tools. The Bullard Company. 578,439, Aug. 11; Serial No. 613,159, published May 26, 1953.
Machines and parts thereof for winding thread, yarn, etc. Universal Winding Company. 578,554, Aug. 11; Serial No. 634,502, published Apr. 28, 1953.
Machines for cleaning and drying the surfaces of solid material goods. Metalwash Machinery Company. 578,475, Aug. 11; Serial No. 622,841, published May 12, 1953.
Materials-handling equipment. Lewis-Shepard Products, Inc. 578,612, Aug. 11; Serial No. 638,724, published May 19, 1953.
Materials-handling trucks. Lewis-Shepard Products, Inc. 578,613, Aug. 11; Serial No. 638,725, published May 19, 1953.

Metal casting machines. Mergenthaler Linotype Company. 578,447, Aug. 11; Serial No. 614,707, published May 26, 1953.
Metal casting machines. Mergenthaler Linotype Company. 578,466, Aug. 11; Serial No. 624,219, published May 26, 1953.
Metal working machines. Tree Tool & Die Works. 578,483, Aug. 11; Serial No. 624,982, published May 19, 1953.
Milling machines, turret lathes, pattern and radial drilling machines, etc. M. I. S. A. L.-Macchine Industriali Societa Accomandita Leto. 578,618, Aug. 11; Serial No. 630,063, published Apr. 28, 1953.
Mufflers. Automotive Engineering, Inc. 578,520, Aug. 11; Serial No. 629,416, published May 26, 1953.
Planing machines, slotting machines, boring machines, etc. Fiat Società per Azioni. 578,543, Aug. 11; Serial No. 633,048, published May 19, 1953.
Pliers. Sargent & Company. 578,550, Aug. 11; Serial No. 633,682, published May 5, 1953.
Printing press. C. O. Bachman. 578,539, Aug. 11; Serial No. 632,411, published May 19, 1953.
Printing presses and parts thereof, Power operated. The Goss Printing Press Company. 578,434, Aug. 11; Serial No. 607,754, published Feb. 17, 1953.
Razors, Safety. Lupin Products, Inc. 444,785, Aug. 11; Serial No. 525,604, published Mar. 31, 1953.
Razors, Safety, and safety razor blades. The Gillette Company. 578,627, Aug. 11; Serial No. 639,753, published May 5, 1953.
Razors, shears, scissors, etc. Pearlduck, Inc. 578,476, Aug. 11; Serial No. 623,630, published May 19, 1953.
Relieving fixtures for supporting work during grinding and other operations. Glenbard Tool Mfrs. 578,472, Aug. 11; Serial No. 622,537, published Apr. 28, 1953.
Sand blasting equipment. Clementina Company. 578,411, Aug. 11; Serial No. 585,054, published May 26, 1953.
Screw machine products, Automatic. Ex-Cell-O Aircraft & Tool Corporation. 306,921, renewed Oct. 3, 1953. O. G. Aug. 11.
Scum removal apparatus. Chain Belt Company. 578,400, Aug. 11; Serial No. 567,069, published Apr. 28, 1953.
Scythes, hand-sickles, and trowels. H. G. Zelinka. 578,511, Aug. 11; Serial No. 628,077, published Apr. 21, 1953.
Sewing machines. Nihon Mishin Seizo Kabushiki Kaisha. 578,481, Aug. 11; Serial No. 624,723, published May 5, 1953.
Shoe machinery. Pepe Machinery Corporation. 295,432, June 28, 1932. Republished Aug. 11.
Sprayers of insecticides and other purposes, and sprayer parts. H. D. Hudson Manufacturing Company. 578,406, Aug. 11; Serial No. 579,374, published May 19, 1953.
Stapling machines. Manual Spotnails, Inc. 578,533, Aug. 11; Serial No. 631,522, published May 19, 1953.
Textile machinery, etc.; Parts of. Maatschappij Ago N. V. 561,467, July 15, 1952. Corrected. O. G. Aug. 11.
Tool, Metal cutting, and tool holder assembly. J. J. Milo. 578,507, Aug. 11; Serial No. 627,397, published May 5, 1953.
Tool stands and work benches. United Equipment Co. 578,526, Aug. 11; Serial No. 630,740, published May 5, 1953.
Tools. Landon P. Smith Inc. 263,729, Nov. 12, 1929. Republished Aug. 11.
Tools, Metal cutting. Barber-Colman Company. 578,518, Aug. 11; Serial No. 628,608, published May 19, 1953.
Turbine superchargers. American Locomotive Company. 578,534, Aug. 11; Serial No. 631,914, published May 19 1953.
Vending machines, Coin-controlled manually-operated. Lunchomat Corporation of America. 578,556, Aug. 11; Serial No. 634,905, published May 19, 1953.
Wheeled rig. Cardwell Manufacturing Company, Inc. 578,655, Aug. 11; Serial No. 562,248.

CLASS 24

Washing devices. M. T. Kelley. 287,649, Sept. 29, 1931. Republished Aug. 11.

CLASS 26

Apparatus for automatically regulating the viscosity of an adhesive solution. Triangle Package Machinery Company. 578,427, Aug. 11; Serial No. 601,581, published Apr. 7, 1953.
Calculators, Blood-cell. Marbel Blood Calculator Company. 578,519, Aug. 11; Serial No. 628,771, published Mar. 31, 1953.
Camera cases, fitted cases designed for photographic accessories, etc. Lederwarenfabrik Kritzler K. G. 578,566, Aug. 11; Serial No. 635,838, published Apr. 7, 1953.
Crucibles. The Morgan Crucible Company Limited. 91,105, re-renewed Apr. 15, 1953. O. G. Aug. 11.
Fluid meters. Builders Iron Foundry. 578,521, Aug. 11; Serial No. 630,057, published Apr. 7, 1953.
Instrument which is a calibrated random noise source. Kay Electric Company. 578,445, Aug. 11; Serial No. 613,460, published Mar. 31, 1953.
Instrument which is a combined sweeping oscillator and crystal marker generator. Kay Electric Company. 578,444, Aug. 11; Serial No. 613,459, published Mar. 31, 1953.
Instrument which is a heterodyne type analyzer. Kay Electric Company. 578,443, Aug. 11; Serial No. 613,458, published Mar. 31, 1953.
Instrument which is a subsonic and audio spectrograph. Kay Electric Company. 578,442, Aug. 11; Serial No. 613,457 published May 5, 1953.
Lenses, Contact. Muehl Welt Contact Lenses, Inc. 578,525, Aug. 11; Serial No. 630,111, published Apr. 7, 1953.
Materials used in lithographic printing. A. B. Dick Company. 578,438, Aug. 11; Serial No. 610,420, published Apr. 7, 1953.
Photographic lenses. A. & S. Camera Supply Co., Inc. 578,505, Aug. 11; Serial No. 627,162, published Nov. 4, 1952.
Photographic light meters. E. Leitz, Inc. 578,531, Aug. 11; Serial No. 631,010, published Apr. 7, 1953.
Projecting machines, Still picture. Victorlite Industries. 423,680, Sept. 10, 1946. Canceled June 12, 1953. O. G. Aug. 11.
Proportioning controller. Hayleo Controls Corporation. 578,528, Aug. 11; Serial No. 630,781, published Apr. 7, 1953.

CLASS 31

Filter cartridges and filters. Wix Accessories Corporation. 578,479, Aug. 11; Serial No. 624,255, published Apr. 14, 1953.
Filters. Sparkler Mfg. Co. 578,480, Aug. 11; Serial No. 624,708, published Apr. 14, 1953.
Insoluble granular or bead-like ion exchange and adsorbent materials, etc. The Permutit Company. 578,462, Aug. 11; Serial No. 619,894, published Apr. 14, 1953.
Liquid treating equipment—namely, water softeners, etc. Beico Industrial Equipment Division, Inc. 578,425, Aug. 11; Serial No. 599,740, published May 20, 1952.
Refrigerated display cases. McCray Refrigerator Company, Inc. 578,523, Aug. 11; Serial No. 630,433, published Apr. 14, 1953.
Refrigerators and freezers, Household and commercial. Chapman Refrigeration Manufacturers. 578,547, Aug. 11; Serial No. 633,300, published Apr. 14, 1953.
Refrigerators, Domestic, and home type food freezing units. Skelly Oil Company. 578,498, Aug. 11, Serial No. 626,349, published Apr. 7, 1953.
Water softeners. The Duro Co. 578,432, Aug. 11; Serial No. 605,786, published Apr. 28, 1953.
Water softeners, Base exchange, with and without filtering material, etc. Elgin Softener Corporation. 578,449, Aug. 11; Serial No. 615,604, published Apr. 7, 1953.

CLASS 32

Desks and seating equipment. The Peabody Seating Company, Inc. 578,500, Aug. 11; Serial No. 626,531, published May 19, 1953.
Mattresses, box springs, sofa beds, etc. Sealy, Incorporated. 578,391, Aug. 11; Serial No. 557,871, published May 19, 1953.
Mattresses, Crib. Nurserytyme Products. 578,302, Aug. 11; Serial No. 559,043, published May 19, 1953.
Metal guides for filing cabinets and filing drawers. R. S. Daniel. 578,440, Aug. 11; Serial No. 613,214, published May 19, 1953.
Sofas, davenports, love seats, etc., Upholstered. Northome Furniture Industries, Inc. 578,463, Aug. 11; Serial No. 620,321, published May 19, 1953.
Spring pads or supports. Gordon Sales, Inc. 578,504, Aug. 11; Serial No. 627,126, published May 19, 1953.
Venetian blinds. The Eastern Venetian Blind Company. 578,676, Aug. 11; Serial No. 617,658.
Venetian blinds. The Eastern Venetian Blind Company. 578,677, Aug. 11; Serial No. 617,953.

CLASS 35

Brake linings. Raybestos-Manhattan, Inc. 300,122, renewed Sept. 5, 1953. O. G. Aug. 11.
Hose, Air. Goodall Rubber Company. 578,641, Aug. 11; Serial No. 642,466, published May 19, 1953.
Packings, jointing materials, and miscellaneous packings. Turner Brothers, Limited. 40,433, re-renewed May 26, 1953. O. G. Aug. 11.
Tires, Pneumatic, and inner tubes. United States Rubber Company. 578,605, Aug. 11; Serial No. 638,504, published May 19, 1953.

CLASS 36

Accordions, cornets, trumpets, etc. J. M. Sahlein. 578,421, Aug. 11; Serial No. 593,617, published Apr. 14, 1953.
Strings for violins and similar instruments. Deutsche Gold- & Silber-Scheideanstalt. 301,149, renewed Feb. 21, 1953. O. G. Aug. 11.

CLASS 37

Business forms. The Todd Company, Inc. 204,297, May 24, 1932. Republished Aug. 11.
Index cards, Partially printed. P. O. Moore, Inc. 578,608, Aug. 11; Serial No. 608,462.
Labels, Blank and partially printed adhesive. Ever Ready Label Corporation. 578,669, Aug. 11; Serial No. 609,791.



Paper, Bond. Lee Paper Company. 578,654, Aug. 11; Serial No. 556,901.
Paper, Bond. White & Wyckoff Manufacturing Company. 264,006, Nov. 12, 1929. Republished Aug. 11.
Paper, Bond, vellum, mimeograph, stencil, duplicating and copying. Wausau Paper Mills Company. 578,667, Aug. 11; Serial No. 607,363.
Paper, Coated. Consolidated Water Power & Paper Company. 578,581, Aug. 11; Serial No. 636,840, published May 12, 1953.
Paper, Embossed laminated waterproof. The Cromwell Paper Company. 578,587, Aug. 11; Serial No. 637,364, published May 12, 1953.
Paper, Writing and typewriting. Goldsmith Bros. 303,028, renewed May 9, 1953. O. G. Aug. 11.
Pencils, Wood encased. Eagle Pencil Company. 578,573, Aug. 11; Serial No. 636,219, published May 12, 1953.
Pencils, Wood encased. Eagle Pencil Company. 578,574, Aug. 11; Serial No. 636,221, published May 12, 1953.

CLASS 38

Bulletins, Life insurance. N. Sternberg. 578,683-4, Aug. 11; Serial Nos. 623,392-3.
Magazine, monthly. Hairc Publishing Company. 578,701, Aug. 11; Serial No. 641,618.
Newspaper articles. L. R. Millo. 408,716, Aug. 29, 1944. Canceled July 9, 1953. O. G. Aug. 11.
Publication Periodic. Pointers Publishing Company, Inc. 578,678, Aug. 11; Serial No. 618,075.

CLASS 39

Apparel, Women's and children's. Vanity Fair Mills, Inc. 578,545, Aug. 11; Serial No. 633,231, published May 19, 1953.
Blouses, combinations of blouses and slips, skirts, etc., Girls'. American Blouse Co., Inc. 578,435, Aug. 11; Serial No. 608,526, published May 19, 1953.
Boots and shoes, Ladies' leather. H. E. Guptill. 40,303, re-renewed May 12, 1953. O. G. Aug. 11.
Brassières. Peter Pan Foundations, Inc. 578,495, Aug. 11; Serial No. 626,262, published May 19, 1953.
Clothing, Men's. The Leon Godchaux Clothing Company, Limited. 578,664, Aug. 11; Serial No. 604,844.
Coats and jackets, Girls' and misses'. Miss Junior Coats, Inc. 578,671, Aug. 11; Serial No. 612,175.
Coats, Hunting. Hettrick Manufacturing Company. 439,492, June 29, 1948. Canceled June 22, 1953. O. G. Aug. 11.
Coats, Misses' and ladies'. Siegel Brothers, Inc. 304,373, renewed July 4, 1953. O. G. Aug. 11.
Coats, veats, trousers, etc. J. Schoeneman, Inc. 578,596, Aug. 11; Serial No. 637,955, published May 12, 1953.
Dresses, Women's and children's. Fashion Frocks, Inc. 224,748, Mar. 1, 1927. Republished Aug. 11.
Footwear, Athletic. Hood Rubber Company, Inc. 306,484, renewed Sept. 19, 1953. O. G. Aug. 11.
Garments, Sleeping. H. M. Allison Company. 578,687, Aug. 11; Serial No. 626,361.
Hosiery and underwear. Star-Lite Merchandise Co. 530,031, Aug. 29, 1950. Canceled July 3, 1953. O. G. Aug. 11.
Hosiery, Men's, boys', and children's. Interwoven Stocking Company. 578,553, Aug. 11; Serial No. 634,329, published Apr. 28, 1953.
Hosiery, Women's. Burlington Mills Corporation. 578,453, Aug. 11; Serial No. 618,079, published Sept. 2, 1952.
Hosiery, Women's. Concourse Hosiery Mills, Inc. 578,402, Aug. 11; Serial No. 576,448, published July 1, 1952.
Hosiery, Women's and girls'. Diamond Full-Fashioned Hosiery Co., Inc. 578,660, Aug. 11; Serial No. 595,637.
Shirts, Dress, negligee, and work, and pajamas. Alperin Strauss Co. 300,067, Sept. 2, 1941. Canceled June 19, 1953. O. G. Aug. 11.
Shirts, Men's and boys' dress, sport and work. Ely & Walker Dry Goods Company. 578,593, Aug. 11; Serial No. 637,766, published May 12, 1953.
Shirts, Women's. A. Harris and Co. 578,662, Aug. 11; Serial No. 599,241.
Shirts, work pants, work suits, etc., Men's and boys' work. J. C. Penney Company. 303,405, renewed May 23, 1953. O. G. Aug. 11.
Shoes and slippers, Fabric and leather. The Sherman Bros. Mfg. Co. 392,760, Jan. 13, 1942. Republished Aug. 11.
Shoes, Infants'. Ettelbrick Shoe Manufacturing Co. 302,581, renewed Apr. 25, 1953. O. G. Aug. 11.
Shoes, Men's and boys'. H. H. Brown Shoe Co., Inc. 578,702, Aug. 11; Serial No. 642,441.
Shoes, Women's. The Coward Shoe, Inc. 578,681-2, Aug. 11; Serial Nos. 621,502-3.
Shoes, Women's. The L. V. Marks & Sons Company. 578,656, Aug. 11; Serial No. 576,003.
Sportswear, Men's and women's. Fox-Knapp Manufacturing Co. 578,389, Aug. 11; Serial No. 542,460, published May 12, 1953.
Suits, coats, slacks, etc., Men's and boys'. Lebow Bros., Inc. 578,575, Aug. 11; Serial No. 636,366, published May 12, 1953.
Suits, Men's. Mavest Inc. 578,588, Aug. 11; Serial No. 637,489, published May 12, 1953.
Underwear, Knitted. The Richmond Underwear Co. 92,830, re-renewed July 29, 1953. O. G. Aug. 11.

CLASS 40

Seam binding. Standard Ribbon Co. 578,673, Aug. 11; Serial No. 615,581.

CLASS 42

Comforters, Bed. Lone Star Comforters, Inc. 578,622, Aug. 11; Serial No. 639,378, published May 19, 1953.
Corduroys, pile fabrics, fustians, khakis, velveteens, and cotton piece goods. Merrimack Manufacturing Company. 118,903, Oct. 9, 1917. Republished Aug. 11.
Fabrics, Drapery and upholstery. Marshall and Moore, Inc. 578,563, Aug. 11; Serial No. 635,604, published May 19, 1953.
Fabrics, Swatches of woolen textile. B. Kuppenheimer and Co. Inc. 578,448, Aug. 11; Serial No. 615,230, published May 19, 1953.
Fabrics, Textile. Brand & Oppenheimer Incorporated. 578,530, Aug. 11; Serial No. 630,985, published May 19, 1953.
Fabrics, Wilton pile. Marshall Field & Company. 314,731, July 3, 1934. Republished Aug. 11.
Piece goods. Hibben Hollweg & Company. 578,404, Aug. 11; Serial No. 577,887, published May 19, 1953.
Piece goods. Hibben Hollweg & Company. 578,405, Aug. 11; Serial No. 578,064, published May 19, 1953.
Piece goods. Hibben Hollweg & Company. 578,419–20, Aug. 11; Serial Nos. 593,350–1, published May 19, 1953.
Piece goods. Sayles Finishing Plants, Inc. 307,377, renewed Oct. 24, 1953. O. G. Aug. 11.
Piece goods. United Merchants and Manufacturers, Inc. 578,590, Aug. 11; Serial No. 637,736, published Apr. 28, 1953.
Piece goods, Cotton. Merrimack Manufacturing Company. 113,278, Oct. 10, 1916. Republished Aug. 11.
Piece goods, Woolen. Fortsmann Woolen Co. 307,742, renewed Oct. 31, 1953. O. G. Aug. 11.
Sheets and table covers of plastic film, Rubber crib. Empire Shield Company, Inc. 502,306, Sept. 21, 1948. Canceled June 25, 1953. O. G. Aug. 11.
Suiting, Woolen, and coat fabrics. S. Stein & Co., Inc. 578,428, Aug. 11; Serial No. 602,004, published Aug. 19, 1952.

CLASS 43

Thread, Cotton. Standard-Coosa-Thatcher Company. 307,735, renewed Oct. 31, 1953. O. G. Aug. 11.

CLASS 44

Dental alloy. Baker & Company, Inc. 307,550, renewed Oct. 31, 1953. O. G. Aug. 11.
Dental resinous cement. Reliance Dental Mfg. Co. 578,552, Aug. 11; Serial No. 634,216, published May 12, 1953.
First aid eye safety kits. S. S. Miller. 578,461, Aug. 11; Serial No. 619,843, published May 19, 1953.
Hospital equipment. Surgicon Corporation. 578,485, Aug. 11; Serial No. 625,219, published May 12, 1953.
Inlay pattern material. Reliance Dental Mfg. Co. 578,503, Aug. 11; Serial No. 627,084, published May 12, 1953.
Respirator, Mask-type. Mine Safety Appliances Company. 578,510, Aug. 11; Serial No. 627,956, published May 12, 1953.
Sanitary napkins and sanitary belts. San-Nap-Pak Mfg. Co. Inc. 303,714, renewed June 6, 1953. O. G. Aug. 11.
Wheel chairs, Invalid. Everest & Jennings, Inc. 578,409, Aug. 11; Serial No. 626,372, published May 12, 1953.

CLASS 45

Beverages, Carbonated. C. C. Porter. 92,121, re-renewed June 17, 1953. O. G. Aug. 11.
Beverages, Non-alcoholic maltless. Hartman Beverage Company. 578,401, Aug. 11; Serial No. 568,618, published May 5, 1953.
Cider, Apple. P. J. Madigan. 578,426, Aug. 11; Serial No. 601,550, published May 5, 1953.
Cola variety of carbonated nonalcoholic noncereal maltless beverages. Seminole Flavor Company. 578,383, Aug. 11; Serial No. 518,984, published May 19, 1953.
Flavoring syrup for soda water. C. D. Bradham. 40,619, re-renewed June 16, 1953. O. G. Aug. 11.
Soft drinks and concentrates for making the same, etc., Citrus flavored. Sunkist Growers, Inc. 578,492, Aug. 11; Serial No. 626,009, published May 26, 1953.
Soft drinks, Non-alcoholic maltless. Rayner & Company Limited. 578,430, Aug. 11; Serial No. 602,776, published May 19, 1953.

CLASS 46

Apples, Fresh, and fresh peaches. W. H. Wishard. 578,604, Aug. 11; Serial No. 638,461, published May 12, 1953.
Beans, Dried, dried peas, rice, etc. Seaboard Mills. 578,399, Aug. 11; Serial No. 564,406, published May 12, 1953.
Beef, Frozen. Hunter Packing Co. 578,696, Aug. 11; Serial No. 632,619.
Berries, Fresh, frozen fresh berries and fresh vegetables. California Berry Freezers, Inc. 578,535, Aug. 11; Serial No. 632,016, published May 12, 1953.
Butter and fresh eggs. The Grand Union Company. 578,665, Aug. 11; Serial No. 605,416.

Candy. Stephen F. Whitman & Son, Inc. 578,598, Aug. 11; Serial No. 637,968, published May 12, 1953.
Canned chopped horse meat. Victory Packing Co. 578,693, Aug. 11; Serial No. 630,555.
Canned dog food. Marvin Canning Company, Inc. 578,524, Aug. 11; Serial No. 630,278, published May 12, 1953.
Canned food products. The Great American Tea Company. 307,357, renewed Oct. 24, 1953. O. G. Aug. 11.
Canned fruits, honey, food-flavoring extracts, etc. T. G. McMahon. 300,755, renewed Feb. 7, 1953. O. G. Aug. 11.
Canned peas. Bozeman Canning Company. 370,755, Sept. 5, 1939. Canceled July 1, 1953. O. G. Aug. 11.
Canned peas. Bozeman Canning Company. 373,480, Dec. 12, 1939. Canceled July 1, 1953. O. G. Aug. 11.
Cheese and milk products. Ch. Gervais, Société Anonyme. 578,699, Aug. 11; Serial No. 636,585.
Cheese whey, Dried. J. H. Hobson Company. 578,616, Aug. 11; Serial No. 639,048, published May 12, 1953.
Feed, Poultry. Southern States Cooperative, Incorporated. 578,689, Aug. 11; Serial No. 627,151.
Flour, Wheat. Duluth Universal Milling Company. 578,433, Aug. 11; Serial No. 607,663, published May 12, 1953.
Flour, Wheat. Fisher Flouring Mills Company. 92,330, re-renewed July 1, 1953. O. G. Aug. 11.
Flour, Wheat. Fisher Flouring Mills Company. 306,418, renewed Sept. 19, 1953. O. G. Aug. 11.
Flour, Wheat. Fisher Flouring Mills Company. 306,421, renewed Sept. 19, 1953. O. G. Aug. 11.
Flours, Prepared. Elgin Foods, Incorporated. 306,173, renewed Sept. 12, 1953. O. G. Aug. 11.
Fruit, Fresh citrus. La Verne Co-operative Citrus Association. 306,911, renewed Oct. 3, 1953. O. G. Aug. 11.
Fruits and vegetables, Fresh frozen, canned frozen orange juice, etc. Foodways, Inc. 578,506, Aug. 11; Serial No. 627,180, published May 12, 1953.
Gelatin dessert, and a preparation for making puddings. The Jel Sert Co. 578,469, Aug. 11; Serial No. 622,074, published May 12, 1953.
Meat products. Tobin Packing Co., Inc. 578,490, Aug. 11; Serial No. 625,496, published May 12, 1953.
Milk solids, Nonfat dry, and whole milk powder. J. H. Hobson Company. 578,617. Aug. 11; Serial No. 639,049, published May 12, 1953.
Mustard, Prepared. D. Mahoney. 578,690, Aug. 11; Serial No. 627,450.
Olive oil. F. Cappellino. 305,197, renewed Aug. 8, 1953. O. G. Aug. 11.
Olive oil. United Drug Company. 303,395, renewed May 23, 1953. O. G. Aug. 11.
Onions. Paul D. Jones, Inc. 578,700, Aug. 11; Serial No. 640,343.
Pancakes, Ready-to-serve. Chickadee Pie Factory. 578,537, Aug. 11; Serial No. 632,076, published May 12, 1953.
Potatoes, Raw. Clement Bros. 578,703, Aug. 11; Serial No. 643,535.
Poultry, Dressed. Polo Produce Company. 300,882, renewed Feb. 14, 1953. O. G. Aug. 11.
Stabilizer for ice cream and other confections. Swift & Company. 578,639, Aug. 11; Serial No. 640,818, published May 12, 1953.
Syrup, Table. Anheuser-Busch, Inc. 549,180, Oct. 9, 1951. Corrected. O. G. Aug. 11.
Tea. Royal Estates Tea Co. 304,758, renewed July 18, 1953. O. G. Aug. 11.
Tomato drink. Tomat-O-Pep Company. 578,417, Aug. 11; Serial No. 592,794, published May 12, 1953.
Various products—namely, shell eggs, frozen egg whites, etc. Washington Co-operative Farmers Association. 578,580, Aug. 11; Serial No. 636,830, published May 12, 1953.
Vegetables, Fresh. Biggar & Biggar. 578,508, Aug. 11; Serial No. 627,551, published May 12, 1953.
Vegetables, Fresh. A. Rossi. 578,544, Aug. 11; Serial No. 633,219, published May 12, 1953.
Vegetables, Fresh. Sakioka Farms. 578,541, Aug. 11; Serial No. 632,691, published May 12, 1953.

CLASS 47

Wine, Blackberry. Jack Poust & Company, Inc. 578,657, Aug. 11; Serial No. 580,145.
Wine, Cherry. Jack Poust & Company, Inc. 578,659, Aug. 11; Serial No. 592,838.
Wine, Sherry. Findlater Mackie Todd & Co. Limited. 578,471, Aug. 11; Serial No. 622,254, published May 26, 1953.
Wines. Berke Brothers Distilleries Inc. 578,408–9, Aug. 11; Serial Nos. 580,394–5, published May 5, 1953.
Wines. California Cellars. 578,658, Aug. 11; Serial No. 592,072.
Wines. Comunidad Viña San José-Tocornal. 578,454, Aug. 11; Serial No. 618,082, published May 5, 1953.
Wines. RWL Wine & Liquor Company, Incorporated. 578,558, Aug. 11; Serial No. 635,098, published May 19, 1953.
Wines. Schenley Import Corporation. 578,514, Aug. 11; Serial No. 628,225, published May 19, 1953.
Wines. Societe Civile du Domaine de la Romanee-Conti. 578,397, Aug. 11; Serial No. 563,535, published May 5, 1953.
Wines. Societe Civile du Domaine de la Romanee-Conti. 578,398, Aug. 11; Serial No. 563,539, published May 5, 1953.
Wines. Wine Growers Guild. 578,450, Aug. 11; Serial No. 615,671, published May 19, 1953.

CLASS 48

Ale. Centlivre Brewing Corporation. 578,562, Aug. 11; Serial No. 635,586, published May 19, 1953.
Beer. Centlivre Brewing Corporation. 578,561, Aug. 11; Serial No. 635,585, published May 19, 1953.
Beer. Frankenmuth Brewing Company. 578,502, Aug. 11; Serial No. 627,061, published May 5, 1953.
Beer. Galveston-Houston Breweries, Inc. 578,536, Aug. 11; Serial No. 632,027, published May 5, 1953.

CLASS 49

Alcoholic cordials and liqueurs. L. J. McGuinness & Company, Limited. 578,470, Aug. 11; Serial No. 622,083, published May 5, 1953.
Gin. Reid, Wright & Holloway (Distillers) Limited. 306,810, renewed Sept. 26, 1953. O. G. Aug. 11.
Liqueur. Chartreuse Corporation. 578,527, Aug. 11; Serial No. 630,757, published May 19, 1953.
Rum. José Arechabala S. A. 578,679–80, Aug. 11; Serial Nos. 621,465–6.
Whiskey. Jas. Barclay & Co. Limited. 578,497, Aug. 11; Serial No. 626,297, published May 19, 1953.
Whiskey. J. A. Dougherty's Sons, Inc. Distillers. 578,603, Aug. 11; Serial No. 638,405, published May 19, 1953.
Whiskey, Bourbon. James Walsh & Company, Inc. 578,517, Aug. 11; Serial No. 628,512, published May 19, 1953.
Whiskey, Canadian. Wiser's Distillery Limited. 578,431, Aug. 11; Serial No. 605,623, published May 19, 1953.
Whiskey, Scotch. John Crabbie & Co. Limited. 578,390, Aug. 11; Serial No. 557,430, published May 5, 1953.
Whisky, Scotch. Peter Walker (Warrington) Limited. 578,560, Aug. 11; Serial No. 635,561, published May 26, 1953.

CLASS 51

Antiseptic and disinfectant preparation. Lehn & Fink, Inc. 307,869, renewed Nov. 7, 1953. O. G. Aug. 11.
Tooth powder. Poloris Company, Inc. 578,456, Aug. 11; Serial No. 618,759, published May 19, 1953.
Vanishing creams, brilliantine, liquid, paste, and powder dentifrices, etc. Prichard & Constance (Wholesale) Ltd. 92,123, re-renewed June 17, 1953. O. G. Aug. 11.

CLASS 52

Chemical composition for washing and strengthening nylon. Le Blanc Brothers. 578,632, Aug. 11; Serial No. 639,941, published May 19, 1953.
Cleaning compound. Kem Spray Cleaner Company. 578,688, Aug. 11; Serial No. 626,578.
Cleaning preparations, General. Purex Corporation, Ltd. 578,630, Aug. 11; Serial No. 639,834, published May 19, 1953.
Preparation for cleaning combs, hair brushes, and jewelry. C. F. Clothier. 578,608, Aug. 11; Serial No. 638,570, published May 19, 1953.
Soap. W. F. Young Inc. 292,032, Mar. 1, 1932. Republished Aug. 11.
Soap. W. F. Young Inc. 293,816, May 3, 1932. Republished Aug. 11.
Soap, Liquid laundry. Towsley, Inc. 578,415, Aug. 11; Serial No. 590,241, published Dec. 16, 1952.
Solvent naphtha for dry cleaning purposes. American Mineral Spirits Company. 578,625, Aug. 11; Serial No. 639,730, published May 19, 1953.

CLASS 100

Consulting engineering and architectural services. Anderson-Nichols & Company. 578,645, Aug. 11; Serial No. 610,665, published May 19, 1953.
Creating and suggesting designs and plans for the interior decoration and furnishing of houses, offices, etc. G. H. Corbeille. 578,707, Aug. 11; Serial No. 635,999.
Engineering services. Bigelow-Liptak Corporation. 578,646, Aug. 11; Serial No. 618,107, published May 19, 1953.
Leasing machines and equipment to be used in treating fruit and vegetables, etc. Food Machinery and Chemical Corporation. 578,643, Aug. 11; Serial No. 588,570, published May 19, 1953.
Recruiting and pledging prospective members of the chapters of a national collegiate fraternity. The Chi Phi Fraternity. 578,652, Aug. 11; Serial No. 590,834, published May 19, 1953.
Restaurant service. Peter Pan Ice Cream & Sandwich Shop, Inc. 578,644, Aug. 11; Serial No. 604,218, published May 19, 1953.
Restaurant services. El Chico Cafe. 578,650, Aug. 11; Serial No. 637,100, published May 19, 1953.

CLASS 101

Advertising the goods and services of others. Ray Gillum Enterprises, Inc. 578,706, Aug. 11; Serial No. 626,029.



CLASS 102

Providing and distributing funds as grants to institutions and to individuals as fellowships, etc. American Cancer Society, Inc. 578,651, Aug. 11; Serial No. 637,856, published May 19, 1953.
Underwriting of fire and other kinds of property insurance. Central Mutual Insurance Company. 578,649, Aug. 11; Serial No. 629,650, published May 19, 1953.

CLASS 105

Air transport service. Koninklijke Luchtvaart Maatschappij N. V. 578,647, Aug. 11; Serial No. 619,628, published May 19, 1953.
Air transport service. Koninklijke Luchtvaart Maatschappij, N. V. 578,705, Aug. 11; Serial No. 619,627.

CLASS 107

Leasing passenger cars, station wagons, commercial vehicles and trucks. J. W. Rollins. 578,708, Aug. 11; Serial No. 639,659.
Educational service. E. Chapman. 578,648, Aug. 11; Serial No. 628,394, published May 19, 1953.
Instructing in the game of golf, etc. The Professional Golfers' Association of America. 578,653, Aug. 11; Serial No. 623,154, published May 19, 1953.

# LIST OF PLANT PATENTEES

Frye, Lloyd L., Yuba City, Calif. Peach tree. 1,210, Aug. 11.

# LIST OF DESIGN PATENTEES

Achison, Victor: *See*—
Danziger, William, and Achison.

Adler, Samuel E., Chicago, Ill. Television cabinet. 170,140, Aug. 11.

Barcley, Gaylord A., St. Petersburg, Fla. Girdle. 170,141, Aug. 11.

Barcley, Gaylord A., St. Petersburg, Fla. Girdle. 170,142, Aug. 11.

Beethoven, Albert E., Brooklyn, N. Y., assignor to Toymaster Products Co., Inc., Passaic, N. J. Toy store. 170,143, Aug. 11.

Berken, Barbara B., assignee: *See*—
Buckley, Lawrence G.

Billig, Ralph B.: *See*—
Ziskin, Manuel S., and Billig.

Buckley, Lawrence G., Olympia, assignor of one-eighth to B. B. Berken, Seattle, one-eighth to K. B. Ogle, Mercer Island, Wash., and one-eighth to E. B. Martin, Eugene, Oreg. Embossed decorative panelling. 170,144, Aug. 11.

Bucky, Gustav, New York, N. Y. Photographic camera. 170,145, Aug. 11.

Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Walking toy. 170,146, Aug. 11.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,147, Aug. 11.

Cole, Edwin I., Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill. Base for table lamps. 170,148, Aug. 11.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Cooke, Lawrence E., Houston, Tex. Toy compass. 170,149, Aug. 11.

Cowap, Henry B., Evanston, Ill. Bird feeder or similar article. 170,150, Aug. 11.

Crowle, Robert H.: *See*—
Jones, Charles E., and Crowle.

Danziger, William, and V. Achison, New York, N. Y. Display advertising device. 170,151, Aug. 11.

Daum, Howard A., Pittsburgh, Pa. Combined lamppost and sign. 170,152, Aug. 11.

Davis, Douglas P., and D. C. Maddux, Burbank, Calif. Firecracker cannon. 170,153, Aug. 11.

Denes, Magdalene R., New York, N. Y. Rug or similar article. 170,154, Aug. 11.

Di Chiara, Anthony, assignor to Liberty Optical Company, Inc., Newark, N. J. Spectacle frame ornament. 170,155, Aug. 11.

Flora-Lite Company, assignee: *See*—
Jones, Charles E., and Crowle.

Hagan, Ann, New York, N. Y. Child's coverall-apron. 170,156, Aug. 11.

Heyer, Don, El Monte, Calif. Pull for drawers, cabinet doors and the like. 170,157, Aug. 11.

Imperial Glass Corporation, assignee: *See*—
Uhrmann, Carl J.

Jones, Charles E., Chicago, and R. H. Crowle, Berwyn, assignors, by mesne assignments, to E. J. Rice and A. B. Wolf, doing business as Flora-Lite Company, Chicago, Ill. Illuminable floral aquarium. 170,158, Aug. 11.

Keyes Fibre Company, assignee: *See*—
Randall, Walter H.

Kromex Corporation, assignee: *See*—
Ziskin, Manuel S., and Billig.

Levin, Isadore, Washington, D. C. Portable lavatory. 170,159, Aug. 11.

Liberty Optical Company, Inc., assignee: *See*—
Di Chiara, Anthony.

Maddux, Duane C.: *See*—
Davis, Douglas P., and Maddux.

Malpede, Albert J.: *See*—
Vani, James, and Malpede.

Mark, Louis, & Company, Inc., assignee: *See*—
Campbell, Laurie J.

Martin, Elizabeth B., assignee: *See*—
Buckley, Lawrence G.

Minozzi, Ferdinand R., Yonkers, N. Y. Child's scooter. 170,160, Aug. 11.

Murray-Ohio Manufacturing Company, The, assignee: *See*—
Schreckengost, Viktor.

Nicolay, Robert C., Wooster, Ohio. Electric percolator. 170,161, Aug. 11.

Ogle, Kathleen B., assignee: *See*—
Buckley, Lawrence G.

Ogren, Axel E., Chicago, Ill. Clothesline reel. 170,162, Aug. 11.

Pyro Plastics Corporation, assignee: *See*—
Schaible, Grover C.

Randall, Walter H., Waterville, assignor to Keyes Fibre Company, Portland, Maine. Carrying tray. 170,163, Aug. 11.

Randall, Walter H., Waterville, assignor to Keyes Fibre Company, Portland, Maine. Tray. 170,164, Aug. 11.

Regina Corporation, The, assignee: *See*—
Verhagen, Edward L.

Rice, Emanuel J., assignee: *See*—
Jones, Charles E., and Crowle.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. File box or similar article. 170,165, Aug. 11.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Mailbox or similar article. 170,166, Aug. 11.

Rosen, Martin, Flushing, N. Y. Gravy boat or the like. 170,167, Aug. 11.

Schaible, Grover C., Westfield, assignor to Pyro Plastics Corporation, Union, N. J. Toy gun. 170,168, Aug. 11.

Schreckengost, Viktor, Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Bicycle frame. 170,169, Aug. 11.

Schultz, Abraham Y., University City, Mo. Bottle. 170,170, Aug. 11.

Service Metal Fabricators, Inc., assignee: *See*—
Vani, James, and Malpede.

Stevens, Clifford B., Milwaukee, Wis. Automobile. 170,171, Aug. 11.

Stiffel Company, The, assignee: *See*—
Cole, Edwin I.

Toymaster Products Co., Inc., assignee: *See*—
Beethoven, Albert E.

Tylon, Samuel, Cleveland, Ohio. Calendar or the like. 170,172, Aug. 11.

Uhrmann, Carl J., assignor to Imperial Glass Corporation, Bellaire, Ohio. Pitcher or similar article. 170,173, Aug. 11.

Vani, James, and A. J. Malpede, assignors to Service Metal Fabricators, Inc., Chicago, Ill. Automotive vehicle drying unit. 170,174, Aug. 11.

Vani, James, and A. J. Malpede, assignors to Service Metal Fabricators, Inc., Chicago, Ill. Automotive vehicle drying unit. 170,175, Aug. 11.

Verhagen, Edward L., assignor to The Regina Corporation, Rahway, N. J. Floor polishing machine. 170,176, Aug. 11.

Wolf, Al B., assignee: *See*—
Jones, Charles E., and Crowle.

Wood, Robert, Red Bank, N. J. Ash tray. 170,177, Aug. 11.

Wood, Robert, Red Bank, N. J. Ash tray. 170,178, Aug. 11.

Wyler, Alfred, Rye, N. Y. Wrist watch. 170,179, Aug. 11.

Ziskin, Manuel S., Mayfield Heights, and R. B. Billig, Willoughby, assignors to Kromex Corporation, Cleveland, Ohio. Condiment container or the like. 170,180, Aug. 11.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 11TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A-B-C Packaging Machine Corporation, assignee: *See*—
Neal, Morris P.

A B Svenska Skoläsitfabriken, assignee: *See*—
Werklund, Harald.

Abbotts Dairies, Inc., assignee: *See*—
Kennedy, Ridgway, Jr.

Accounting Forms, Inc., assignee: *See*—
Bickel, Arthur J.

Adams, William H., and W. D. Ervine, Kingston, England, assignors to Standard Oil Development Company. Engine corrosion preventive. 2,648,643, Aug. 11.

Addressograph-Multigraph Corporation, assignee: *See*—
Gollwitzer, Walter T.

Adkins, William L., Downey, Calif. Drinking fountain valve. 2,648,306, Aug. 11.

Admiral Corporation, assignee: *See*—
Morton, Evans T.

Aerojet-General Corporation, assignee: *See*—
Malsner, Herman.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Dvonch, William, and Mehltretter.
Ratchford, William P.
Stitt, Fred, Tomimatsu, and Tjensvold.

Aktiebolaget Elektrolux, assignee: *See*—
Grubb, Gunnar A.

Aktiebolaget Gotaverken, assignee: *See*—
Johansson, Johan E.

Alderfer, Sterling W., assignor of three-tenths to E. D. Andrews, Akron, Ohio. Fabric coated sponge rubber and making same. 2,648,619, Aug. 11.

Alderson, Samuel W., New York, N. Y. Pipe coupling device for pneumatic systems. 2,648,199, Aug. 11.

Aldrich Machine Works, assignee: *See*—
Henry, Nelson B.

Alexander, Donald C., Worcester, assignor to Surprenant Mfg. Co., Boston, Mass. Open wire transmission line. 2,648,720, Aug. 11.

Aliotti, Enrico, Rhodes, Dodecanese, Greece, assignor to Aliotti and Gier, Kansas City, Mo. Method and apparatus for treating raisins. 2,648,605, Aug. 11.

Aliotti and Gier, assignee: *See*—
Aliotti, Enrico.

Allan, Stuart R., Somerville, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator. 2,648,394, Aug. 11.

Allen, Francis J.: *See*—
Wilde, Geoffrey L., and Allen.

Allied Chemical & Dye Corporation, assignee: *See*—
Martin, Andrew J.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Taylor, Philip L.

American Brake Shoe Company, assignee: *See*—
Olson, Walter J.

American Can Company, assignee: *See*—
Peck, Carl F.
Socke, John E.

American Car and Foundry Company, assignee: *See*—
Euwer, Herbert D., and Anderson.
Shields, Robert A.
Udstad, Sigvald F.

American Cyanamid Company, assignee: *See*—
Baker, Bernard R., and Querry.
Cresswell, Arthur.
Kaiser, Donald W., and Roemer.
Roemer, John J., and Kaiser.
Spencer, Frank R.
Williams, Audley O., and McBurney.

American Decalcomania Company, Inc., assignee: *See*—
Winn, Robert G.

American Manufacturing Company, Inc., assignee: *See*—
Croston, Edward L., and Harbord.

American Meat Institute Foundation, assignee: *See*—
Beadle, Buell W., and Kraybill.

American Steel Foundries, assignee: *See*—
Kayler, Frank H.
Whitney, Loren L.

American Viscose Corporation, assignee: *See*—
Richter, George A., Jr.
Vandenburgh, Charles D., and Kulp.

Ammco Tools, Inc., assignee: *See*—
Billeter, Henry R.

Andersen, Hans C.: *See*—
Skole, Vigga, and Andersen.

Anderson, Harold G.: *See*—
Euwer, Herbert D., and Anderson.

Anderson, Thomas F.: *See*—
Daugherty, Clyde J., and Anderson.

Anderson, William S., assignor of one-half to J. E. Axeman, Williamsport, Pa. Shaft bearing. 2,648,575, Aug. 11.

Andrews, Edward D., assignee: *See*—
Alderfer, Sterling W.

Andrews, Kenneth J. M.: *See*—
Morrison, Alexander L., and Andrews.

Anemostat Corporation of America, assignee: *See*—
Phillips, Leonard R., and Nilsson.

Anglo-Iranian Oil Company Limited, assignee: *See*—
Porter, Frederick W. B., and Northcott.

Applenau, Theodore C., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Illuminated indicated control. 2,648,305, Aug. 11.

Argabrite, George A., North Hollywood, assignor, by mesne assignments, to Pacific Transducer Corporation, Los Angeles, Calif. Audio sweep frequency generator. 2,648,782, Aug. 11.

Armontrout, Arthur L., Long Beach, Calif. Recovering lost circulation in wells. 2,648,522, Aug. 11.

Armour and Company, assignee: *See*—
Harrington, Bertie S.
Lloyd, William E.
Spence, Andrew, Lev, and Reddie.
Van Ness, La Verne.

Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.

Armstrong Cork Company, assignee: *See*—
Scott, Wylmer L., Park, and Baldwin.

Arnold, George B.: *See*—
Hess, Howard V., Arnold, and Kovach.

Ashton, Benjamin N., and E. V. Barkow, assignors to Electrol Incorporated, Kingston, N. Y. Selector pump. 2,648,290, Aug. 11.

Askue, Albert R., Euclid, assignor to The Cleveland Trencher Company, Cleveland, Ohio. Endless bucket chain structure for trenching machines. 2,648,145, Aug. 11.

Aspelin, Leslie L.: *See*—
Thoren, Theodore R., Aspelin, and Murray.

Athey Products Corporation, assignee: *See*—
Kling, Robert W.

Atlas Powder Company, assignee: *See*—
Brandner, John D.

Automatic Manufacturing Corporation, assignee: *See*—
Friberg, Vincent P.

Automatic Pump & Softener Corporation, assignee: *See*—
Whitlock, Fred W.

Avery, Samuel K., Dolton, Ill. Prosthetic transfer recorder. 2,648,130, Aug. 11.

Axeman, James E., assignee: *See*—
Anderson, William S.

Ayers, William R., Camden, and J. N. Smith, Westmont, N. J., assignors to Radio Corporation of America. Code recognition system. 2,648,829, Aug. 11.

Babcock, John C.: *See*—
Minion, Huang, and Babcock.

Baer, Walter S., Sr., Yeadon, Pa. Link-plate seal for catapult slotted cylinders. 2,648,310, Aug. 11.

Bagby, Robert T.: *See*—
Ramsay, Erskine, and Bagby.

Baigent, Keith H., West Ewell, assignor to R. H. Windsor Limited, London, England. Injection molding machine and variable delivery hydraulic pump therefor. 2,648,096, Aug. 11.

Bailey, Herman H., Belmont, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Textile print blanket washing equipment. 2,648,088, Aug. 11.

Bailey, Meyer E., assignee: *See*—
Swanson, Bror W.

Baker, Bernard B., Nanuet, N. Y., and M. V. Querry, Westwood, N. J., assignors to American Cyanamid Company, New York, N. Y. 4-quinazolone-3-acetoacetic acids, the esters thereof and salts of said acids and said esters. 2,648,665, Aug. 11.

Baker, Harry F.: *See*—
Sohon, Harry, and Baker.

Baldwin, James T.: *See*—
Scott, Wylmer L., Park, and Baldwin.

Banerjee, Dilip K.: *See*—
Johnson, William S., and Banerjee.

Barkow, Eugene V.: *See*—
Ashton, Benjamin N., and Barkow.

Barksdale, Malvin M., Amity, Ark. Hydraulically controlled feed for sawmills. 2,648,359, Aug. 11.

Barothy, Charles F., Indianapolis, Ind., assignor to Western Electric Company, Incorporated, New York, N. Y. Tiltable holder for supply pans. 2,648,465, Aug. 11.





Bartell, Floyd E., Ann Arbor, Mich., assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 2,648,309, Aug. 11.

Basilewsky Alexis, Sea Cliff, N. Y., assignor to Solvay & Cie, Brussels, Belgium. Mercury cathode electrolysis Apparatus. 2,648,630, Aug. 11.

Basskind, Herman D., New York, N. Y. Cuff fastening with separable fastener. 2,648,140, Aug. 11.

Bateman, Robert N., Duluth, Minn., assignor to United States Steel Corporation. Tensioning device for conveyor belts. 2,648,424, Aug. 11.

Bates, Walter M., Jr., Penns Grove, N. J. Drip deflector. 2,648,107, Aug. 11.

Bauer, Friedrich, Erlangen, assignor to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Mechanically controllable induction machine. 2,648,807, Aug. 11.

Baur, John W., Glen View, and O. G. Ploss, Cicero, assignors to Binks Manufacturing Company, Chicago, Ill. Dry powder conditioning and dispensing. 2,648,466, Aug. 11.

Baxter, Bruce L., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Crate for beverage bottles and the like. 2,648,456, Aug. 11.

Beach, William L., Los Angeles, Calif., assignor to North American Aviation, Inc. Method and apparatus for progressive forming of C-stage plastic material. 2,648,370, Aug. 11.

Beadle, Buell W., China Lake, Calif., and H. R. Kraybill, assignors to A. W. Brickman, V. Conquest, F. J. Madden, W. B. Oleson, and E. T. Filbey, trustees for American Meat Institute Foundation, Chicago, Ill. Stabilization of fats and oils. 2,648,608, Aug. 11.

Beaulieu, Ezra J., Downers Grove, L. E. Haagensen, Barrington, and O. Scharer, Chicago, Ill. assignors to Western Electric Company, Incorporated, New York, N. Y. Device for winding wire about terminals. 2,648,356, Aug. 11.

Bechler, André, Moutier, Switzerland. Guard construction for machine tools. 2,648,239, Aug. 11.

Bechtold, Jack R.: *See*—
Iddings, Charles D., Bechtold, and Borg.

Beckett, Reginald W., Elyria, Ohio. Motor suspension for oil burners and the like. 2,648,284, Aug. 11.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening device. 2,648,410, Aug. 11.

Beedle, Eugene C., Bay Village, assignor to The Guardian Burglar Proof Equipment Company, Cleveland, Ohio. Teller's window. 2,648,300, Aug. 11.

Ile-Ge Manufacturing Co., assignee: *See*—
Krueger, Frank W.

Begin, Louis E., assignor to The Dow Chemical Company, Midland, Mich. Esters of 4-chloro-0-toloxyacetic acid. 2,648,701, Aug. 11.

Behrens, Herbert C., assignor to Diebold, Incorporated, Canton, Ohio. Rotary card index drive mechanism. 2,648,586, Aug. 11.

Bell, Franklin P., Walnut Creek, Calif. Kite. 2,648,508, Aug. 11.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Ellwood, Walter B.
Hickman, Clarence N.
Kock, Winston E., and Schimpf.
Melick, John M.
Newby, Neal D., and Vaughan.
Vroom, Edward.
Wallace, Robert L., Jr.
Young, William R., Jr.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Belsinger, Inc., assignee: *See*—
Belsinger, Jack R.
Belsinger, Samuel P.

Belsinger, Jack R., Cynwyd, Pa., assignor to Belsinger, Inc., Atlanta, Ga. Heavy duty fiber container. 2,648,484, Aug. 11.

Belsinger, Samuel P., assignor to Belsinger, Inc., Atlanta, Ga. Easy packing deep container. 2,648,480, Aug. 11.

Belsinger, Samuel P., assignor to Belsinger, Inc., Atlanta, Ga. Heavy duty fiber container. 2,648,481, Aug. 11.

Belsinger, Samuel P., assignor to Belsinger, Inc., Atlanta, Ga. Heavy duty fiber container. 2,648,482, Aug. 11.

Belsinger, Samuel P., assignor to Belsinger, Inc., Atlanta, Ga. Heavy duty fiber container. 2,648,483, Aug. 11.

Bench, David E.: *See*—
Cool, Kenneth A., Hush, Ernst, and Bench.

Bendfelt, Herbert A., Oak Park, assignor to Mills Industries, Incorporated, Chicago, Ill. Beverage vending machine. 2,648,274, Aug. 11.

Bendix Aviation Corporation, assignee: *See*—
Burt, Farlow B.
Chapin, Irving F.
Cox, Parker G.
Deardorff, Clinton E., and Gunn.
Dickey, John W.
Dombeck, Edward K.
Livers, Carlos B., and Meddock.
Price, Harold W., and Hupp.
Roberts, Glyn P.
Roloson, William G., and Spengler.

Bennett, Rufus B., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Calcium manganate-aluminum oxide catalyst. 2,648,639, Aug. 11.

Bennett, Vivian R., Los Angeles, Calif. Means for applying artificial respiration. 2,648,331, Aug. 11.

Bensinger, Wolf-Dieter, Muhlacker Wurttemberg, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Rotary valve controlled multicylinder internal-combustion engine. 2,648,318, Aug. 11.

Bentley, Earl V.: *See*—
Ravese, Thomas, and Bentley.

Beranek, Anthony J., and A. F. Collmann, Coggon, Iowa. Tractor-mounted windrower. 2,648,186, Aug. 11.

Bergh, Charles J., Vandalia, assignor to The Dayton Pump & Mfg. Co., Dayton, Ohio. Submersible pump. 2,648,286, Aug. 11.

Berland, Morton, and M. Spiegler, St. Paul, Minn. Valve. 2,648,517, Aug. 11.

Bernstein Bros. Pipe & Machinery Company, assignee: *See*—
Sefcovic, Felix S.

Best, William L.: *See*—
Shorek, Leonard J., and Best.

Best, William L., Detroit, and C. H. Lisch, Jr., Grosse Pointe Woods, assignors to Young Brothers Company, Detroit, Mich. Unloader for wicket-type conveyers. 2,648,420, Aug. 11.

Better Brushes, Incorporated, assignee: *See*—
Teetsel, Ralph T.

Bickel, Arthur J., Chicago, Ill., assignor to Accounting Forms, Inc. Bookkeeping device. 2,648,547, Aug. 11.

Bikles, Fred, New York, N. Y. Sharpening and polishing machine. 2,648,174, Aug. 11.

Billeter, Henry R., Highland Park, assignor to Ammco Tools, Inc., North Chicago, Ill. Micrometer gauge. 2,648,134, Aug. 11.

Billings, William P., West Asheville, N. C. Fluid pressure controlled signal switch. 2,648,733, Aug. 11.

Binks Manufacturing Company, assignee: *See*—
Baur, John W., and Ploss.

Birtman Electric Company, assignee: *See*—
Howard, Frank S.

Bishop, Morris C., West Orange, N. J. Drape and fixture for hanging the same. 2,648,379, Aug. 11.

Bitney, Dewey H., assignor to Union Steel Products Company, Albion, Mich. Collapsible walled pallet. 2,648,455, Aug. 11.

Bixby Box Toe Co. Inc., assignee: *See*—
Gauthier, Earl H. G.

Black, Theodore R., Tipp City, Ohio. Endless belt conveyer. 2,648,423, Aug. 11.

Blanchard, Benjamin W., Jr., Pine Hill, N. J. Radio antenna. 2,648,770, Aug. 11.

Blank, Charles E.: *See*—
Carpenter, Allan O., and Blank.

Blank, Wilhelm, Goppingen Wurttemberg, Germany. Brassière. 2,648,070, Aug. 11.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Lacquer composition containing a hydrocarbon derived resin. 2,648,640, Aug. 11.

Bodey, Charles E., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gas pilot burner and draft shield. 2,648,377, Aug. 11.

Bollhoefer, Dale M., assignor to Collins Radio Company, Cedar Rapids, Iowa. Momentary switch. 2,648,728, Aug. 11.

Bollinger, Weldon P.: *See*—
Ford, John R., and Bollinger.

Bontempi, Albert, assignee: *See*—
Streeter, Hale B.

Bordwell, Frederick G.: *See*—
McKellin, Wilbur H., Bordwell, and Fishkill.

Borea, Kazmer J., Cleveland, Ohio. Apparatus for dust prevention. 2,648,241, Aug. 11.

Borg, Paul E.: *See*—
Iddings, Charles D., Bechtold, and Borg.

Boris, Matthew J., East Chicago, Ind., and N. C. Ludwig, Chicago, Ill., assignors to Universal Atlas Cement Company. Cement composition with additive to reduce water loss from a slurry thereof. 2,648,645, Aug. 11.

Borst, Julius R., East Moline, assignor to C & J Industries, Moline, Ill. Garbage receptacle. 2,648,495, Aug. 11.

Bowers, Maurice E., Somerville, N. J. Chicken chute. 2,648,307, Aug. 11.

Boyden, Robert E., Los Angeles, assignor to Clary Multiplier Corporation, San Gabriel, Calif. Accumulator drive control mechanism. 2,648,497, Aug. 11.

Bradley, Schuyler L., Pittsburgh, assignor to Westinghouse Eelctric Corporation, East Pittsburgh, Pa. Regulating system. 2,648,813, Aug. 11.

Bradley, William E., New Hope, assignor to Philco Corporation, Philadelphia, Pa. Electrical system for altering phase displacement of sequential-type color signals. 2,648,722, Aug. 11.

Brandner, John D., assignor to Atlas Powder Company, Wilmington, Del. Production of esters of cyclic acetals. 2,648,680, Aug. 11.

Brennan, Joseph B., Cleveland, Ohio. Anode for electrolytic condensers. 2,648,119, Aug. 11.

Brennan, Joseph B., Bratenahl, Ohio. Metallizing gun. 2,648,567, Aug. 11.

Brickman, A. W., trustee, assignee: *See*—
Beadle, Buell W., and Kraybill.

British Brehmer Limited, assignee: *See*—
Cuthbert, William J.

British Celanese Limited, assignee: *See*—
Brown, Russell J., Downing, and Groombridge.

Brooks Equipment Corporation, assignee: *See*—
Quinn, Aloysius J.

Brown, Carlton F., assignee: *See*
Kent, Edward.

Brown, E. Y., assignee: *See*—
Robbins, Homer R.

Brown, Frank E., Burbank, and F. M. Turnbull, Los Angeles, Calif., said Brown assignor to said Turnbull. Hypodermic injection assembly. 2,648,334, Aug. 11.

Brown, Henry, assignor to The Udylite Corporation, Detroit, Mich. Electroplating of nickel. 2,648,628, Aug. 11.

Brown, Russell J., J. Downing, and W. H. Groombridge, Spondon, near Derby, England, assignors to British Celanese Limited. Felted water-soluble cleansing tissue. 2,648,635, Aug. 11.

Brown, Wallace M., assignor to Kenworth Motor Truck Corporation, Seattle, Wash. Driven steerable bogey for multiaxle trucks. 2,648,392, Aug. 11.

Browne, Thomas E., Jr.: *See*—
Strom, Albert P., and Browne.

Bruch, Willard R., Yreka, Calif. Flower box. 2,648,164, Aug. 11.

Brumberger, Louis, assignor to Mercury Sportswear, Inc., New Haven, Conn. Stitching mechanism for joining cords or the like with a fabric. 2,648,304, Aug. 11.

Brunsviga Maschinenwerke Aktiengesellschaft, assignee: *See*—
Jordan, Kurt, and Neumann-Lezius.

Brusseau, Gene R.: *See*—
Hazzard, Joseph F., and Brusseau.

Bryant Chucking Grinder Company, assignee: *See*—
Gates, Hessiar H.

Brynes, Kermit: *See*—
Stimson, Allen G., Brynes, Jennings, and Taylor.

Budreck, Frances, assignor to Monarch Tool & Machinery Co., Chicago, Ill. Rearview mirror structure. 2,648,256, Aug. 11.

Budreck, Frances, assignor to Monarch Tool & Machinery Co., Chicago, Ill. Rear-vision mirror mounting structure of the universal type. 2,648,556, Aug. 11.

Burgess-Manning Company, assignee: *See*—
Chipley, Alfred S.

Burns, William E.: *See*—
Swenson, James A., Burns, and Stead.

Burroughs Adding Machine Company, assignee: *See*—
Wockenfuss, William.

Burt, Farlow R., assignor to Bendix Aviation Corporation, South Bend, Ind. Record changer apparatus. 2,648,541, Aug. 11.

Buser, Doris E.: *See*—
Buser, Joseph S.

Buser, Joseph S., deceased, late of Marland Heights, W. Va., by D. E. Morgan (formerly D. E. Buser), administratrix, Altoona, Pa., assignor to National Steel Corporation. Electrocoating strip. 2,648,625, Aug. 11.

Buser, Joseph S., deceased, late of Marland Heights, W. Va., by D. E. Morgan (formerly D. E. Buser), administratrix, Altoona, Pa., assignor to National Steel Corporation. Electrolytic coating. 2,648,626, Aug. 11.

Byler, Raymond E., Stanford University, and R. C. Dunn, San Carlos, assignors to The Merrill Company, San Francisco, Calif. Recovery of precious metal values. 2,648,601, Aug. 11.

C. & J. Industries, assignee: *See*—
Borst, Julius R.

Calbo Alemany, Fray A., Cheva, Spain. Adjusting means for slidable side jaw wrenches. 2,648,244, Aug. 11.

Calder, Caesar A., Verona, N. J. Collar support. 2,648,470, Aug. 11.

California Research Corporation, assignee: *See*—
Lewis, Allen H., and Stayner.

Campbell, Harris S., assignee: *See*—
Tidd, Gage W.

Campini, Secondo, Milan, Italy. Cooling combustion turbines. 2,648,519, Aug. 11.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Magnetic recorder. 2,648,590, Aug. 11

Canada, Alfred H., Schenectady, N. Y., assignor to General Electric Company. Frequency modulated photometer. 2,648,249, Aug. 11.

Canada, Her Majesty the Queen in the rights of, as represented by the Minister of National Defence, assignee: *See*—
McKay, Arthur F.

Candela, Pompeo B., San Bernardino, Calif. Apparatus for introducing cut film into cameras. 2,648,265, Aug. 11.

Cantral, John I.: *See*—
Silver, Walter H., and Cantral.

Carborundum Company, The, assignee: *See*—
Mitchell, Robert D., Pahl, and Hunter.

Carlisle, James V., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Fused salt electrolysis cell. 2,648,631, Aug. 11.

Carnahan, Orson A., Syracuse, N. Y. Heat exchanger. 2,648,527, Aug. 11.

Carpenter, Allan O., Corning, and C. E. Blank, Painted Post, assignors to Ingersoll-Rand Company, New York, N. Y. Valve actuator. 2,648,314, Aug. 11.

Carr, Clifford H., assignor of one-half to V. J. Sparks, Kansas City, Mo. Method and apparatus for cooling aggregates. 2,648,206, Aug. 11.

Carrier, E. Wendell, Cranford, N. J., assignor to Standard Oil Development Company. Recovery of alcohols from direct hydration of olefins. 2,648,711, Aug. 11.

Carroll, Raleigh S., assignor to W. Flett, Portland, Oreg. Apparatus for finishing hardened surfaces on frames for power saws. 2,648,173, Aug. 11.

Carruthers, Eben H., Warrenton, Oreg. Apparatus for packing food products. 2,648,478, Aug. 11.

Carter, Charles C., Lubbock, Tex. Replacement guide for poppet valve stems. 2,648,322, Aug. 11.

Casati, Lucienne A. M., Vincennes, J. L. Gonnard, Villeurbanne, and J. E. G. Lahousse, Lyon, France, assignors to Societe des Usines Chimiques Rhone-Poulenc. Methods of and means for the protection of materials and equipment sensitive to the action of water, moisture and mold growth. 2,648,651, Aug. 11.

Cassidy, Robert K., Vancouver, Wash. Cart for golf bags. 2,648,545, Aug. 11.

Castner, George P., Webster City, Iowa, assignor to Solar Corporation, Milwaukee, Wis. Washing machine with fluid drive. 2,648,213, Aug. 11.

Caterpillar Tractor Co., assignee: *See*—
Maxwell, Carl R., and Fleck.

Cederquist, Emanuel L., Los Angeles, Calif. Nut and holder. 2,648,248, Aug. 11.

Chaffin, Rafe C., and E. O. Pratt, Los Angeles, Calif. Foldable fence attachment for hospital beds and the like. 2,648,075, Aug. 11.

Chambers, Laura A., San Francisco, Calif. Urinal construction. 2,648,335, Aug. 11.

Chapin, Irving F., assignor to Bendix Aviation Corporation, South Bend, Ind. Airplane wheel. 2,648,371, Aug. 11.

Chaplin Corporation, assignee: *See*—
Chaplin, Merle P.

Chaplin, Merle P., assignor to Chaplin Corporation, South Portland, Maine. Fiber disintegrator and separator. 2,648,201, Aug. 11.

Chappel, Eugene, Whitesboro, N. Y., assignor to Utica Drop Forge & Tool Corporation. Adjustment retarder for slidable side jaw wrenches. 2,648,243, Aug. 11.

Chemical Foundation, Incorporated, The, assignee: *See*—
Gerjovich, Henry J., and Pijoan.

Chesian Brush Company, Inc., assignee: *See*—
Chesney, Murphy A., and Lang.

Chesney, Murphy A., and H. A. Lang, assignors to Chesian Brush Company, Inc., Knoxville, Tenn. Hand brush and nesting case. 2,648,083, Aug. 11.

Chicago Bridge & Iron Company, assignee: *See*—
Moyer, Frederick D.

Chicago Carton Company, assignee: *See*—
Smith, William C.

Childers, Harry S., assignor to Vendorlator Manufacturing Company, Fresno, Calif. Coin-controlled mechanism. 2,648,417, Aug. 11.

Children's Hospital of Philadelphia, assignee: *See*—
Gibbon, Samuel Y.

Chilowsky, Constantin, assignor to Technical Assets, Inc., New York, N. Y. Method and apparatus for producing electrical and mechanical energy from thermal energy. 2,648,784, Aug. 11.

Chipley, Alfred S., Bokeelia, Fla., assignor to Burgess-Manning Company, Libertyville, Ill. Inertial air cleaner. 2,648,398, Aug. 11.

Chow, Joe G.: *See*—
Payson, Peter, and Chow.

Christensen, Paul M., West Orange, assignor to Federal Electric Products Company, Newark, N. J. Automatic circuit breaker. 2,648,736, Aug. 11.

Chrysler Corporation, assignee: *See*—
Maurer, Edwin R.
Zeder, Henry H., Dickson, and Zeeb.

Cinch Manufacturing Corporation, assignee: *See*—
Heath, Clarence W.

Clark, Loris D., assignor, by mesne assignments, to Master Vibrator Company, Dayton, Ohio. Electrical control system for engine driven generator sets. 2,648,783, Aug. 11.

Clark, Nelson O., Winthrop, Mass. Transformer. 2,648,751, Aug. 11.

Clark, O'Connor T., Daytona Beach, Fla. Exercising device. 2,648,330, Aug. 11.

Clary Multiplier Corporation, assignee: *See*—
Boyden, Robert E.

Cleveland Pneumatic Tool Company, The, assignee: *See*—
Lura, Loren E.

Cleveland Trencher Company, The, assignee: *See*—
Askue, Albert R.

Clevite Corporation, assignee: *See*—
McKinley, John M., Phillips, Siciliano, and McNeice.

Clifton, John R., Rolling Hills, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Servo valve bypass. 2,648,313, Aug. 11.

Cline, Erving H., Stoughton, Mass. Cable adjusting device. 2,648,109, Aug. 11.





Cloud, William S., Wilmette, Ill. Method and apparatus for the manufacture of candy. 2,648,297, Aug. 11.

Clyde Drilling and Prospecting Equipment Company Limited, assignee: *See*—
Lanchester, George H.

Clyde Fabrics, Inc., assignee: *See*—
Reinhardt, Robert C., and Hefner.

Coats, J. & P., Limited, assignee: *See*—
Kitzrow, Herbert.

Cohen, Martin J., Princeton, N. J., assignor to Radio Corporation of America. Gas pressure measuring. 2,648,818, Aug. 11.

Colgate, William H., West Redding, Conn. Dual container with viewing window. 2,648,156, Aug. 11.

Collida, Bartolo G., assignor of fifty per cent to T. M. Gioia, St. Louis, Mo. Window ventilating attachment. 2,648,273 Aug. 11.

Collins Radio Company, assignee: *See*—
Bollhoefer, Dale M.
Corbell, Paul I.
Eberhardt, Arthur.
Fisher, Floyd A., and Kohl.
Kohl, Walter H.

Collmann, Alvill F.: *See*—
Beranek, Anthony J., and Collmann.

Columbus Auto Parts Company, The, assignee: *See*—
Flumerfelt, William A.

Columbus Show Case Company, The, assignee: *See*—
Teach, Max K.

Combustion Engineering, Inc., assignee: *See*—
Kunz, William J.
Marshall, Leonard J.
Ravese, Thomas, and Rentley.

Compagnie Francaise des Matieres Colorantes S. A. R. L., assignee: *See*—
Lantz, Robert L.

Connelly, Inc., assignee: *See*—
Grimm, Frank C., Jr., and Taylor.

Conquest, Victor, trustee, assignee: *See*—
Beadle, Buell W., and Kraybill.

Continental Supply Company, The, assignee: *See*—
Slonneger, John C.

Control Instrument Company, Inc., assignee: *See*—
Lohse, Edward, and Gross.

Cool, Kenneth A., Cleveland, J. M. Hush, Dayton, W. Ernst, Mount Gilead, and D. E. Bench, Dayton, assignors to The Service Recorder Company, Cleveland, Ohio. Electrically operated recorder. 2,648,591, Aug. 11.

Cooper, Irven G., Silver Spring, Md. Sealing composition. 2,648,612, Aug. 11.

Corbell, Paul I., assignor to Collins Radio Company, Cedar Rapids, Iowa. Double parallel plane magnetron. 2,648,800, Aug. 11.

Corella, Roy, Garvey, Calif. Spiral tool driver. 2,648,364, Aug. 11.

Cork, Edward C., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, England. Resonant aerial. 2,648,771, Aug. 11.

Coursen, David L., Woodstown, and F. A. Loving, Jr., Wenonah, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Pressure resistant blasting cartridge closure assembly. 2,648,283, Aug. 11.

Courtaulds Limited, assignee: *See*—
Curtis, Geoffrey.

Courtot, Louis B., assignor to The Weatherhead Company, Cleveland, Ohio. Resilient interchangeable tube coupling. 2,648,550, Aug. 11.

Cox, Parker G., Grosse Pointe Farms, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Filter. 2,648,138, Aug. 11.

Craig, Leslie, Nelson, New Zealand. Transformer for air and the like. 2,648,169, Aug. 11.

Cresswell, Arthur, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Centrifugal apparatus for separating gases from liquids. 2,648,496, Aug. 11.

Crook, Leslie G., Camberley, England. Air extractor. 2,648,474, Aug. 11.

Crosley Broadcasting Corporation, assignee: *See*—
Rockwell, Ronald J.

Croston, Edward L., Dash Paint, and H. R. Harbord, assignors to American Manufacturing Company, Inc., Tacoma, Wash. Fibrous material extrusion apparatus. 2,648,262, Aug. 11.

Crown Zellerbach Corporation, assignee: *See*—
Martin, John B., and Funk.

Crucible Steel Company of America, assignee: *See*—
Payson, Peter, and Chow.

Cruse, Joseph E., assignor of one-half to W. Payne, Omaha, Nebr. Disk harrow. 2,648,184, Aug. 11.

Cuno Engineering Corporation, The, assignee: *See*—
Kroll, Alfred J., and Schnick.

Curran, Russel E., Chicago, Ill. Lock nut. 2,648,367, Aug. 11.

Curtis Automotive Devices, Inc., assignee: *See*—
Curtis, Russell R.
Curtis, Russell R., and Kimm.

Curtis, Geoffrey, Coventry, assignor to Courtaulds Limited, London, England. Apparatus for dry spinning artificial fibers. 2,648,095, Aug. 11.

Curtis, Russell R., Bedford, Ind., and E. J. Kimm, Dayton, Ohio, assignors to Curtis Automotive Devices, Inc., Bedford, Ind. Variable-speed remote control for valves. 2,648,351, Aug. 11.

Curtis, Russell R., assignor to Curtis Automotive Devices, Inc., Bedford, Ind. Remote control metering valve. 2,648,518, Aug. 11.

Curtiss-Wright Corporation, assignee: *See*—
Cushman, Maurice E., and Kiefer.

Cushman, Maurice E., Verona, and P. J. Kiefer, Jr., Clifton, N. J., assignors to Curtiss-Wright Corporation. Articulated blade propeller. 2,648,391, Aug. 11.

Cuthbert, William J., assignor of one-half to British Brehmer Limited, Enfield, England. Improvements in wire-stapling machine. 2,648,064, Aug. 11.

Cutter Laboratories, assignee: *See*—
Cutter, Robert K.

Cutter, Robert K., assignor to Cutter Laboratories, Berkeley, Calif. Drip meter. 2,648,333, Aug. 11.

Cyc-Arc Limited, assignee: *See*—
Sayer Charles A.

Dahlman, Eben D., Grandy, Minn. Vine-handling machine. 2,648,185, Aug. 11.

Dahnler-Benz Aktiengesellschaft, assignee: *See*—
Bensinger, Wolf-Dieter.

D'Alelio, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Compositions containing polymerized acrylonitrile and solvent therefor. 2,648,653, Aug. 11.

Dalton, Thomas B., assignor, by mesne assignments, to Valley Research Corporation, Montague, Mich. Wrapping machine. 2,648,180, Aug. 11.

Dalton, Thomas B., assignor, by mesne assignments, to Valley Research Corporation, Montague, Mich. Stacker mechanism. 2,648,181, Aug. 11.

Dalton, Thomas B., assignor, by mesne assignments, to Valley Research Corporation, Montague, Mich. Wrapper feeding mechanism. 2,648,183, Aug. 11.

Daly, Robert M., New York, N. Y. Camera slide. 2,648,266, Aug. 11.

Dambrun, Marie M.: *See*—
Gil, Marie M.

Dana, Paul M., Billings, Mont., assignor to Standard Oil Development Company. Variable oil-gas fuel control system. 2,648,499, Aug. 11.

Daniels, Flavius K., assignor to Vickers-Armstrongs Limited, London, England. Means for controlling the motion of masses adapted to perform rotational and rectilinear motion. 2,648,281, Aug. 11.

Daugherty, Clyde J., and T. F. Anderson, assignors to The Sanymetal Products Co., Inc., Cleveland, Ohio. Shower cabinet. 2,648,409, Aug. 11.

Davis, Chester L., assignee: *See*—
Muffley, Leo W.

Davis, Clyde W.: *See*—
Stanton, George W., Lefferdink, and Davis.

Dawson, John W., Newton, F. A. Gross, Weston, and T. A. O. Gross, South Lincoln, assignors to Raytheon Manufacturing Company, Newton, Mass. Magnetron control circuits. 2,648,772, Aug. 11.

Dayton Pump & Mfg. Co., The, assignee: *See*—
Bergh, Charles J.

Dean, George A., Radburn, N. J. Knockdown streamlined container. 2,648,454, Aug. 11.

Deardorff, Clinton E., San Fernando, and J. B. Gunn, Van Nuys, assignors to Bendix Aviation Corporation, North Hollywood, Calif. Locking valve for hydraulic motors. 2,648,346, Aug. 11.

De Blieux, John D., Jacksonville, Fla. Bed cushion for automobiles. 2,648,072, Aug. 11.

De Boo, Jerome L., assignor to Teletype Corporation, Chicago, Ill. Floatingly mounted perforating apparatus. 2,648,385, Aug. 11.

Deere & Company, assignee: *See*—
Lindeman, Jesse G.
Neighbour, Leonard B., and Lance.
Silver, Walter H., and Cantral.
White, Charles H., and Oehler.
Young, Austin E.
Youngs, Alfred B.

De Garmo, Oliver, St. Louis, and F. B. Zienty, Brentwood, assignors to Monsanto Chemical Company, St. Louis, Mo. 2,2,3,3,-tetrahalo-1,4-butanediol-dibenzoates. 2,648,702, Aug. 11.

De Lagabbe, Edmond, Paris, France. Variable pitch screw propeller. 2,648,390, Aug. 11.

Dereich, John E., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Making a resinous siloxane and product. 2,648,654, Aug. 11.

Despard, Victor R., assignor to Pass & Seymour, Inc., Syracuse, N. Y. Quiet snap switch. 2,648,731, Aug. 11.

Detrex Corporation, assignee: *See*—
Dinley, Clarence F.

Détrez, René, Nogent-sur-Marne, France. Automatic loading device for bottles and the like containers. 2,648,419, Aug. 11.

Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, assignee: *See*—
Holzmann, Hermann.

Dewey and Almy Chemical Company, assignee: *See*—
Bailey, Herman H.

Dewyer, Peter J., Libertyville, Ill. Taping machine. 2,648,382, Aug. 11.

Diamond Alkali Company, assignee: *See*—
Dereich, John E.

Dicke, Allen A., Montclair, N. J. Operating lever means for breech closing mechanisms. 2,648,153, Aug. 11.

Dickey, John W., Newfield, N. Y., assignor to Bendix Aviation Corporation. Engine-function switching mechanism. 2,648,746, Aug. 11.

Dickson, John B.: *See*—
Zeder, Henry H., Dickson, and Zeeb.

Diebold, Incorporated, assignee: *See*—
Behrens, Herbert C.

Dietrich, Howard H.: *See*—
Jorgensen, Clarence H., Nickel, Dietrich, and Worden.

Dimick, Daniel B., Wellesley, Mass. Lock joint cradle invert underdrain pipe. 2,648,200, Aug. 11.

Dinley, Clarence F., assignor to Detrex Corporation, Detroit, Mich. Motor control for centrifuges. 2,648,806, Aug. 11.

Dionisotti, Joseph, Monthey, Switzerland. Mining trepan. 2,648,524, Aug. 11.

Dodge, Adiel Y., Rockford, Ill. Brake. 2,648,403, Aug. 11.

Dollar, Robert, Company, The, assignee: *See*—
Wihtol, Weltis.

Doman, Glidden S., Stamford, Conn., assignor to Doman Helicopters, Inc. Rotor head. 2,648,387, Aug. 11.

Doman Helicopters, Inc., assignee: *See*—
Doman, Glidden S.

Dombeck, Edward K., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,648,404, Aug. 11.

Donnelly, Harold G., Dearborn, assignor to Wagner Brothers, Inc., Detroit, Mich. Bright nickel plating composition and process. 2,648,627, Aug. 11.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible railway car. 2,648,293, Aug. 11.

Dorr Company, The, assignee: *See*—
Wright, Orrin H., Weaver, and Fitch.

Dougherty, James E.: *See*—
Reno, Michael W., and Dougherty.

Dow Chemical Company, The, assignee: *See*—
Begin, Louis E.
Stanton, George W., and Lefferdink.
Stanton, George W., Lefferdink, and Davis.
Stanton, George W., Lefferdink, and Spence.

Downing, John: *See*—
Brown, Russell J., Downing, and Groombridge.

Dresser Industries, Inc., assignee: *See*—
Risley, Roger E., and Kish.

Dunkelberger, Milton S., Dayton, Ohio. Combined housing and flexible flashlight support. 2,648,762, Aug. 11.

Dunmire, Robert W., North Canton, assignor to Goodyear Aircraft Corporation, Akron, Ohio. Forming airplane canopies. 2,648,099, Aug. 11.

Dunn, Robert C.: *See*—
Byler, Raymond E., and Dunn.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Coursen, David L., and Loving.
Swed, James P.

Dustman, William S.: *See*—
Riley, Joseph J., and Dustman.

Dutterer, Rex J. L.: *See*—
Phillips, Harold P., and Dutterer.

Duyck, Georges, Tangier, Morocco. Manufacturing electromagnets. 2,648,124, Aug. 11.

Dvonch, William, and C. L. Mehltretter, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Electrolytic preparation of periodate oxypolysaccharides. 2,648,629, Aug. 11.

Dyer, Charles D., Chicopee, Mass. Booster for air brake systems. 2,648,489, Aug. 11.

Eberhard, Everett, Haddonfield, N. J., assignor to Radio Corporation of America. Pulse width discriminator. 2,648,766, Aug. 11.

Eberhardt, Arthur, assignor to Collins Radio Company, Cedar Rapids, Iowa. Variable intermediate frequency transformer. 2,648,825, Aug. 11.

Eberlein, Friedrich, Stuttgart-Riedenberg, assignor to Henkel & Cie, G. m. b. H., Dusseldorf-Holthausen, Germany. Squeezer extractor washing machine. 2,648,211, Aug. 11.

Eckert, Samuel B., Haverford, Pa. Internal-combustion engine. 2,648,228, Aug. 11.

Edmunds, William H., Havertown, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Arc chute plate. 2,648,742, Aug. 11.

Edwards, Andrew W.: *See*—
Wallace, James M., and Edwards.

Ettel, William W., Jr., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Optical system for image intensifiers. 2,648,776, Aug. 11.

Electric & Musical Industries Limited, assignee: *See*—
Cork, Edward C.
Henson, Alec F.

Electrol Incorporated, assignee: *See*—
Ashton, Benjamin N., and Barkow.

Ellis, Sidney G., Princeton Junction, N. J., and P. C. Stevenson, Berkeley, Calif., assignors to Radio Corporation of America. Method and apparatus for separation of colloids in a colloid solution. 2,648,636, Aug. 11.

Eltwood, Walter B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Machine for manufacturing switches. 2,648,167, Aug. 11.

Elwood Research Company, a division of Chiselhurst, Inc., The, assignee: *See*—
Stiehs, Wilhelm.

Emery, Charles B., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Torque testing device. 2,648,219, Aug. 11.

Embart Manufacturing Company, assignee: *See*—
Rowe, George E.

Engel, Charles F., St. Louis, Mo. Cutting duct sections. 2,648,381, Aug. 11.

Enslein, Kurt, Rochester, N. Y., assignor to Stromberg-Carlson Company. Method and apparatus for visual alignment of television receivers. 2,648,724, Aug. 11.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.

Eppler, Andrew, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Folding machine. 2,648,078, Aug. 11.

Epstein, Saul, Los Angeles, Calif. Wrap-around vent spacer. 2,648,326, Aug. 11.

Epstein, Saul, Los Angeles, Calif. Vent pipe support. 2,648,511, Aug. 11.

Erie Resistor Corporation, assignee: *See*—
Stelgerwait, Oliver I., and Oshry.

Ernst, Walter: *See*—
Cool, Kenneth A., Hush, Ernst, and Bench.

Ertner, Edward W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Slack takeup apparatus. 2,648,504, Aug. 11.

Ervine, William D.: *See*—
Adams, William H., and Ervine.

Esslinger, Robert, Prophetstown, Ill. Combination gate hinge and lock. 2,648,092, Aug. 11.

Esters, Ernie B., Highland Park, Mich. Core cleaner. 2,648,170, Aug. 11.

Ethyl Corporation, assignee: *See*—
Carlisle, James V.

Euwer, Herbert D., Kirkwood, Mo., and H. G. Anderson, Fort Lee, N. J., assignors to American Car and Foundry Company, New York, N. Y. Railway train. 2,648,292, Aug. 11.

Ewald, George W., Short Hills, assignor to Keuffel & Esser Company, Hoboken, N. J., and Martin Fabrics Corporation, New York, N. Y. Tape. 2,648,118, Aug. 11.

Experiment Incorporated, assignee: *See*—
Mullen, James W., II, and Fenn.

Fahnoe, Frederick, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Automatic high-pressure valve. 2,648,347, Aug. 11.

Fahnoe, Harold H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Indicating fuse. 2,648,738, Aug. 11.

Falconi, Ugo, assignor to Officine Meccaniche Ceruti S. A., Milan, Italy. Universal reaming machine. 2,648,237, Aug. 11.

Falkenhagen, John C., assignor to G. L. Nadell, Chicago, Ill. Hydraulic lift trailer. 2,648,546, Aug. 11.

Fargo Mfg. Company, Inc., assignee: *See*—
Wengen, Henry R., and Schoonmaker.

Featonby, Joseph, assignor to National Research Council, Ottawa, Ontario, Canada. Heat power reactor. 2,648,191, Aug. 11.

Federal Electric Products Company, assignee: *See*—
Christensen, Paul M.

Fendius, Robert P.: *See*—
Roessl, Carl A., and Fendius.

Fenn, John B.: *See*—
Mullen, James W., II, and Fenn.

Ferguson, Harry, Inc., assignee: *See*—
Kopp, Lester G.

Ferguson, J. L., Company, assignee: *See*—
Ferguson, John L., and Talbot.

Ferguson, John L., and R. C. Talbot, assignors to J. L. Ferguson Company, Joliet, Ill. Case loader and sealer. 2,648,182, Aug. 11.

Fielding, Melvin, Chicago, and O. S. Mundy, Wheaton, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Testing the winding properties of filaments. 2,648,223, Aug. 11.

Filbey, Emery T., trustee, assignee: *See*—
Beadle, Buell W., and Kraybill.

Finch, Percy R., assignor to E. Glasser, Chicago, Ill. Temperature indicator for nursing bottles. 2,648,226, Aug. 11.

Fiordalisi, Fernanda: *See*—
Reiner, Laszlo, and Fiordalisi.

Fir-Tex Insulating Board Co., assignee: *See*—
Robison, John E.

Fisher, Floyd A., and W. H. Kohl, assignor to Collins Radio Company, Cedar Rapids, Iowa. Internal lathe burner. 2,648,166, Aug. 11.

Fishkill, Otto C. E.: *See*—
McKellin, Wilbur H., Bordwell, and Fishkill.

Fitch, Elliot B.: *See*—
Wright, Orrin H., Weaver, and Fitch.

Fitzgerald, Charles W., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Timber setting machine. 2,648,444, Aug. 11.

Fitzner, William H.: *See*—
Henser, Henry V., and Fitzner.

Fleck, Kenneth J.: *See*—
Maxwell, Carl R., and Fleck.





Fleischer, Frank H., Fort Wayne, Ind. assignor to General Electric Company. Rotor for dynamoelectric machines. 2,648,788, Aug. 11.

Flett, William, assignee: *See*—
Carroll, Raleigh S.

Flickinger, Lloyd A., Denver, Colo. Automotive wheel tool. 2,648,126, Aug. 11.

Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Exposed seat universal joint. 2,648,538, Aug. 11.

Ford, John R., Narberth, Pa., and W. P. Rollinger, Hadonfield, N. J., assignors to Radio Corporation of America. Direction finding antenna system. 2,648,839, Aug. 11.

Ford Motor Company, assignee: *See*—
Schiedel, George M.

Foster, Edwin E., assignor to Majik-Ironers, Inc., Austin, Tex. Jointed supporting arms for flatirons. 2,648,146, Aug. 11.

France Manufacturing Company, assignee: *See*—
Kazebee, Charles R.

Franceschini, Lorenzo, assignor to Societa per Azioni Officine Galileo, Firenze, Italy. Tensile testing machine for cementing materials. 2,648,221, Aug. 11.

Franck, Kurt: *See*—
Rolph, Thomas W., and Franck.

Frank, Bernard E.: *See*—
Hahn, Rea L., and Frank.

Fraser, Ella M., administratrix: *See*—
Fraser, Warren F.

Fraser, Kenneth G., assignee: *See*—
Stillwagon, George B., Jr.

Fraser, Warren F., deceased, Westboro, Mass.; E. M. Fraser, administratrix. Control means for automatic grinding machines. 2,648,175, Aug. 11.

Friberg, Vincent P., Lyndhurst, assignor to Automatic Manufacturing Corporation, Newark, N. J. Multiband tuner. 2,648,824, Aug. 11.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Transfer mechanism. 2,648,077, Aug. 11.

Frischmann, Joseph A., assignor to Townotor Corporation, Cleveland, Ohio. Roller structure for lift truck carriages. 2,648,401, Aug. 11.

Froese, Waldtraut: *See*—
Von Schlekh, Otto, and Froese.

Fullerton, James B., assignor to C. A. Miketta, Los Angeles, Calif. Oscillatable spray means for dishwashing apparatus. 2,648,343, Aug. 11.

Funk, Chester S.: *See*—
Martin, John B., and Funk.

Gallagher, John P., and J. L. Kelly, Chicago, Ill.; said J. L. Kelly now by marriage J. L. Gallagher. Thread spool and needle holder. 2,648,472, Aug. 11.

Gallagher, June L.: *See*—
Gallagher, John P., and Kelly.

Gantner, Edward G., assignee: *See*—
Manetti, Mario J., and James.

Garofalo, Domenico, New York, N. Y. Shoe construction and making the same. 2,648,080, Aug. 11.

Garrett, Charley A., Gainesville, Tex. Stingless beehive. 2,648,076, Aug. 11.

Garrett Corporation, The, assignee: *See*—
Wood, Homer J.

Gase, Carl G., Macedonia, Ohio, assignor to The Weldon Tool Company. Clearance angle gauge. 2,648,138, Aug. 11.

Gates, Hesslar H., Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Face runout gauge. 2,648,135, Aug. 11.

Gauster, Wilhelm F., assignee: *See*—
Geyer, Franz.

Gauthier, Earl H. G., assignor to Hixby Box Toe Co, Inc., Haverhill, Mass. Material for shoe stiffeners. 2,648,616, Aug. 11.

Geigy, J. R., A. G., assignee: *See*—
Litvan, Franz, and Stoll.
Stoll, Willy, and Litvan.

General Aniline & Film Corporation, assignee: *See*—
Fahnoe, Frederick.
Schmidt-Nickels, Wilhelm.
Sweet, Monroe H.
Welliver, Lawrence G., and Johnson.

General Electric Company, assignee: *See*—
Canada, Alfred H.
Fleischer, Frank H.
Ruspino, James G.
Sharp, John C.
Stimson, Allen G., Brynes, Jennings, and Taylor.
Torrisi, Alfred F., and Grahame.
White, William C.

General Fireproofing Company, The, assignee: *See*
Strambel, Clarence W.

General Motors Corporation, assignee: *See*—
Hahn, Rea L., and Frank.
Haines, John F., and Wright.
Jorgensen, Clarence H., Nickel, Dietrich, and Worden
Lignian, Jean A.
Moore, Richard E.

General Precision Laboratory Incorporated, assignee: *See*—
Mayer, Allan.

General Steel Castings Corporation, assignee: *See*—
Sheehan, William M., and Mitchell.

General Tire and Rubber Company, The, assignee: *See*—
Swart, Gilbert H.

Gerber, Eugenio, deceased; M. S. Sorondo, curator of the estate of said E. Gerber, assignor to Gerber, Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina. Embroidering machine. 2,648,303, Aug. 11.

Gerber, Sociedad de Responsabilidad Limitada, assignee: *See*—
Gerber, Eugenio.

Gerjovich, Henry J., and M. Pijoan, Boulder, Colo., assignors to The Chemical Foundation, Incorporated. Chlorinated n-ethyl acetanilide insecticide spray composition. 2,648,621, Aug. 11.

Geyer, Franz, Linz (Danube), Austria, assignor of one-half to W. F. Gauster, Raleigh, N. C. Liquid-cooled rotary electric machine. 2,648,789, Aug. 11.

Gibbon, Samuel Y., Jenkintown, assignor, by mesne assignments, to Children's Hospital of Philadelphia, Philadelphia, Pa. Infant incubator equipment. 2,648,327, Aug. 11.

Gibson Electric Company, assignee: *See*—
Graves, Herbert C., Jr.

Gibson, George T., Edinburgh, and W. H. W. Ramsay, Penicuik, assignors to John Gibson & Son Limited, Edinburgh, Scotland. Garbage vehicle. 2,648,452, Aug. 11.

Gibson, John, & Son Limited, assignee: *See*—
Gibson, George T., and Ramsay.

Gil, Marie M., née Dambrun, Amsterdam, Netherlands. Brassière. 2,648,069, Aug. 11.

Gilbert, Walter J., Sr., Indiana, assignor to Syntron Company, Homer City, Pa. Inflatable standby seal for stationary, revolving, sliding, and rocklog tubes and the like and shafts and the like. 2,648,554, Aug. 11.

Gioia, Thomas M., assignee: *See*—
Collida, Bartolo G.

Girton, Lona G.: *See*—
Higbee, Eliza H., and Girton.

Gladville, Glenn V., Massillon, Ohio. Silo construction. 2,648,217, Aug. 11.

Glasser, Eric, assignee: *See*—
Finch, Percy R.

Glidden Company, The, assignee: *See*—
Julian, Percy L., Meyer, and Ryden.

Globe-Union Inc., assignee: *See*—
Glueckstein, Henry J., and Volkmann.

Glueckstein, Henry J., Waukesha, and W. H. Volkmann, Milwaukee, Wis., assignors to Globe-Union Inc., Milwaukee, Wis. Coupling for ganged rotatably controlled units. 2,648,555, Aug. 11.

Goldsmith, Alfred N., assignor to Radio Corporation of America, New York, N. Y. Inspection system. 2,648,723, Aug. 11.

Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph - Multigraph Corporation, Wilmington, Del. Means removing cards from address plates. 2,648,276, Aug. 11.

Gonnard, Jean L.: *See*—
Casati, Lucienne A. M., Gonnard, and Lahousse.

Goodwin, George L., Birmingham, and H. H. Klee, Royal Oak, Mich., said Klee assignor to said Goodwin. Method and machine for producing a continuous honeycomb structure. 2,648,371, Aug. 11.

Goodyear Aircraft Corporation, assignee: *See*—
Dunmire, Robert W.

Gordon, Louis J., and L. Sheldon, Chicago, Ill., said Sheldon assignor to said Gordon. Compass rule. 2,648,131, Aug. 11.

Grabowski, Edward W., Harrow-on-the-Hill, England. Laminated ski. 2,648,543, Aug. 11.

Grahame, Frederick W.: *See*—
Torrisi, Alfred F., and Grahame.

Graves, Herbert C., Jr., Wilkinsburg, assignor to Gibson Electric Company, Pittsburgh, Pa. Electrical contact. 2,648,747, Aug. 11.

Gray, Howard H.: *See*—
Messinger, Bernard L., Gray, and Richolt.

Green, Herman, Garden City, N. Y. Waterproofing unit. 2,648,294, Aug. 11.

Green, Thomas: *See*—
Wickell, Floyd, and Green.

Greenberg, Joseph, New Rochelle, and G. S. Perkins, assignors to National Equipment Corporation, New York, N. Y. Confectionery machine. 2,648,295, Aug. 11.

Grimm, Frank C., Jr., and D. K. Taylor, assignors to Connelly, Inc., Chicago, Ill. Automatic device for controlling gas and air mixtures. 2,648,809, Aug. 11.

Groff, Ellsworth E., Hayden, Ariz. Nursing bottle holder. 2,648,513, Aug. 11.

Groombridge, Walter H.: *See*—
Brown, Russell J., Downing, and Groombridge.

Gross, Fritz A.: *See*—
Dawson, John W., and F. A. and T. A. O. Gross.
Hall, William M., and Gross.

Gross, Stanley H.: *See*—
Lohse, Edward, and Gross.

Gross, Thomas A. O.: *See*—
Dawson, John W., and F. A. and T. A. O. Gross.

Grubb, Gunnar A., Bromma, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration system. 2,648,204, Aug. 11.

Guardian Burglar Proof Equipment Company, The, assignee: *See*—
Beedle, Eugene C.

Gunn, Joseph B.: *See*—
Deardorff, Clinton E., and Gunn.

Gustafsson, Gotthard V. A., Bromma, Sweden. Device for measuring resistance changes. 2,648,819, Aug. 11.

H-P-M Development Corporation, assignee: *See*—
Tucker, Warren R., and Pittman.

Haagensen, Leif E.: *See*—
Beaulieu, Ezra J., Haagensen, and Scharer.

Haertel, Walter, Company, assignee: *See*—
Otterholm, Cyril J.

Hagen, Peter, Sharon Hill, Pa. Mixture control valve for faucets. 2,648,350, Aug. 11.

Hahn, Johann, Brooklyn, N. Y. Bloom shear. 2,648,383, Aug. 11.

Hahn, Rea L., and B. E. Frank, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich. Apparatus for cutting tubing. 2,648,384, Aug. 11.

Haines, John F., and C. B. Wright, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Aircraft propeller. 2,648,388, Aug. 11.

Hall, Garland W., Port Neches, Tex., assignor to The Pure Oil Company, Chicago, Ill. Tube puller. 2,648,563, Aug. 11.

Hall, Robert E., Larkinsville, Ala. Automatic lighting circuit. 2,648,801, Aug. 11.

Hall, William M., Lexington, and F. A. Gross, Weston, assignors to Raytheon Manufacturing Company, Newton, Mass. Heating apparatus. 2,648,760, Aug. 11.

Haller, Raymond and Brown, Inc., assignee: *See*—
Raymond, Richard C.

Hanna, A. N., Co., Inc., assignee: *See*—
Hanna, Atto N.

Hanna, Atto N., assignor to A. N. Hanna Co., Inc., Atlantic Highlands, N. J. Key holder. 2,648,215, Aug. 11.

Hanna, Atto N., assignor to A. N. Hanna Co., Inc., Atlantic Highlands, N. J. Key ring holder. 2,648,216, Aug. 11.

Hanson, Norman D., Bloomfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation Filter medium and making the same. 2,648,617, Aug. 11.

Harbord, Horace R.: *See*—
Croston, Edward L., and Harbord.

Harmon, Paul V., assignor to Precision Parts Corporation, Nashville, Tenn. Electric motor-driven unit. 2,648,790, Aug. 11.

Harper, Solomon, assignor of ten per cent to H. Watkiss, New York, N. Y. Thermostatic controlled hair curlers, combs, and irons. 2,648,757, Aug. 11.

Harrell, C. Lydon, Jr., assignee: *See*—
Wright, Ira E.

Harrell, Martha G., assignee: *See*—
Wright, Ira E.

Harrington, Bertie S., assignor to Armour and Company, Chicago, Ill. Filling apparatus. 2,648,477, Aug. 11.

Hassler, Norman A., Port Washington, assignor to The Sperry Corporation, Great Neck, N. Y. Electromechanical amplifier. 2,648,815, Aug. 11.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.
Phillips, Harold P., and Dutterer.

Hatch, George B., Fishkill, assignor to The Texas Company, New York, N. Y. Preparing thiolane and its homologs. 2,648,675, Aug. 11

Hathaway, Claude M., Littleton, W. De B. Tillon, Jr., Denver, Colo., and P. W. Schafer, Kansas City, Kans., assignors to Hathaway Instrument Company, Denver, Colo. Electric blood pressure recording system. 2,648,328, Aug. 11.

Hathaway Instrument Company, assignee: *See*—
Hathaway, Claude M., Tillon, and Schafer.

Haworth, Lionel, Littleover, assignor to Rolls-Royce Limited, Derby, England. Duct structure for gas-turbine engines. 2,648,353, Aug. 11.

Hayes, Tyler K.: *See*—
Lindner, Ralph L., and Hayes

Hazzard, Joseph E., and G. R. Brosseau, Minneapolis, Minn. Attachment for line casting machines. 2,648,426, Aug. 11.

Heath, Clarence W., Bleasby, England, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Fuse holder. 2,648,740, Aug 11.

Hefner, Fred L.: *See*—
Reinhardt, Robert C., and Hefner.

Heiberger, Charles A., assignor to Ohio-Apex, Inc., Nitro, W. Va. Preparing araliyl carbonates. 2,648,678, Aug. 11.

Heiberger, Charles A., assignor to Ohio-Apex, Inc., Nitro, W. Va. Making organic carbonate. 2,648,697, Aug. 11.

Helwig, William F., Milwaukee, Wis. Garment hanger. 2,648,471, Aug 11

Hemmens, A. V., Pty. Limited, assignee: *See*—
Hemmens, Alfred V.

Hemmens, Alfred V., Potts Point, near Sydney, New South Wales, assignor to A. V. Hemmens Pty. Limited, Sydney, New South Wales, Australia. Liquid metering device. 2,648,225, Aug. 11.

Henkel & Cie. G. m. b. H., assignee: *See*—
Eberlein, Friedrich.

Henry, Nelson B., Atlanta, Ga., assignor to Aldrich Machine Works, Greenwood, S. C. Friction letoff for picker calenders. 2,648,100, Aug. 11.

Henshaw, Richard C., assignor to Lord Manufacturing Company, Erie, Pa. Vibration controller for a resilient mounting. 2,648,509, Aug. 11.

Henshaw, Richard C., assignor to Lord Manufacturing Company, Erie, Pa. Resilient mounting. 2,648,510, Aug. 11.

Henson, Alec F., Whitton, assignor to Electric & Musical Industries Limited, Middlesex, England. Electron discharge device such as television transmission tube. 2,648,794, Aug. 11.

Hercules Powder Company, assignee: *See*—
Preckel, Ralph F.
Vandenberg, Edwin J.

Herr, John D., Minerva, Ohio. Packing retainer for journal boxes. 2,648,574, Aug. 11.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Combination induced and scattered gamma ray borehole logging. 2,648,780, Aug. 11.

Herzog, Gerhard, and R. P. Mazzagatti, Houston, Tex., assignors to The Texas Company, New York, N. Y. Detection and measurement of radiation. 2,648,781, Aug. 11.

Hess, Howard V., Beacon, G. B. Arnold, Glenham, and L. Kovach, Beacon, assignors to The Texas Company, New York, N. Y. Azeotropic distillation for recovery of aromatic fractions containing naphthalene. 2,648,624, Aug. 11.

Heuser, Henry V., and W. H. Fitzner, assignors to Henry Vogt Machine Company, Louisville, Ky. Machine for producing ice cubes and crushed ice. 2,648,203, Aug. 11.

Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recorder. 2,648,589, Aug. 11.

Higbee, Eliza H., Richmond, and L. G. Girton, Orange, Va., assignors to Remington Rand Inc., New York, N. Y. Nurse's bag. 2,648,366, Aug. 11.

Hildebrandt, Alexander B., Tulsa, Okla., assignor to Standard Oil Development Company. Oil well orienting apparatus. 2,648,141, Aug. 11.

Hill, Forrest M., Columbus, Ohio. Foldable lounge chair. 2,648,373, Aug. 11.

Hill, Oiva E., West Boylston, assignor to Norton Company, Worcester, Mass. Multiple wheel grinding machine. 2,648,171, Aug. 11.

Hinkel, Robert D.: *See*—
Manes, Milton, Hofer, and Hinkel.

Hockery, John C., trustee, assignee: *See*—
Scott, Robert J., and Rusko.

Hofer, Lawrence J. E.: *See*—
Manes, Milton, Hofer, and Hinkel.

Hoffmann-La Roche Inc., assignee: *See*—
Morrison, Alexander L., and Andrews.
Steiger, Norbert.
Sternbach, Leo H.
Wenner, Wilhelm.

Hogan Corporatioo, assignee: *See*—
Markson, Alfred A.

Holbeck, Austin A., Detroit, Mich. Machine for unloading continuous baking ovens. 2,648,298, Aug. 11.

Hole, Edward S., London, England. Sticking together resin-impregnated cellulosic sheets. 2,648,620, Aug. 11.

Holophane Company, Inc., assignee: *See*—
Rolph, Thomas W., and Franck.

Holt, Eugene, North Hollywood, Calif., assignor to Safety Precisions Limited, Montreal, Quebec, Canada. Safety closure for containers. 2,648,467, Aug. 11.

Holtz, Edward H., Tenneck, and C. R. Sellen, North Bergen, assignors to Keuffel & Esser Company, Hoboken, N. J. Measuring tape fastener. 2,648,114, Aug. 11.

Holzmann, Hermann, Hanau (Main), assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfurt am Main, Germany. Recovery of platinum. 2,648,393, Aug. 11.

Hoover, Daniel S., Mansfield, Ohio. Hydraulically operated loading apparatus. 2,648,449, Aug. 11.

Horger, Oscar J., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway car axle bearing. 2,648,576, Aug. 11.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Antideflection roll. 2,648,122, Aug. 11.

Houdaille-Hershey Corporation, assignee: *See*—
Zimmerman, Adam.

Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency divider. 2,648,707, Aug. 11.

Howard, Frank S., Chicago, Ill., assignor to Birtman Electric Company. Vacuum cleaner furniture guard. 2,648,090, Aug. 11.

Hoy, John B.: *See*—
Tunsey, Lawrence J., and Hoy.

Hrebenar, Andres, assignee: *See*—
Veschio, Anthony P.

Hudepohl, Fred H., assignee: *See*—
Knollman, Harry A.

Hufnagel, John A., Mineola, assignor to Hydrocarbon Research, Inc., New York, N. Y. Rectification of mixed gases. 2,648,205, Aug. 11.

Hughes, Walter J., assignor to Infilco Incorporated, Chicago, Ill. Variable detention liquid treating apparatus. 2,648,632, Aug. 11.





Hunter, Harman M.: *See*—
Mitchell, Robert D., Pahl, and Hunter.

Hunter, William, Edinburgh, Scotland. Weight raising exercising apparatus. 2,648,540, Aug. 11.

Hupp, Edward E.: *See*—
Price, Harold W., and Hupp.

Hush, James M.: *See*—
Cool, Kenneth A., Hush, Ernst, and Bench.

Hydrocarbon Research, Inc., assignee: *See*—
Hufnagel, John A.

I-T-E Circuit Breaker Company, assignee: *See*—
Edmunds, William H.
Wood, Joseph D.

Iddings, Charles D., J. R. Bechtold, and P. E. Burg, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa. Prefabricated roof slab. 2,648,299, Aug. 11.

Illinois Tool Works, assignee: *See*—
O'Connor, John B.

Industrial Rayon Corporation, assignee: *See*—
Mayner, Thomas S.

Infilco Incorporated, assignee: *See*—
Hughes, Walter J.

Ingersoll-Rand Company, assignee: *See*—
Carpenter, Allan O., and Blank.

Ingraham, Robert P., San Antonio, Tex. Magnetic nail holder. 2,648,066, Aug. 11.

International Standard Electric Corporation, assignee: *See*—
Tournier, Marcel C.

Ironrite, Inc., assignee: *See*—
Sperlich, Herman A.

Jacobsen, Robert P., Shrewsbury, and G. Pincus, Worcester, Mass., assignors to G. D. Searle & Co., Chicago, Ill. 2-methyl-2,7-dihydroxy octahydrophenanthrene-1-propionic acid and derivatives thereof. 2,648,700, Aug. 11.

Jacobson, Victor, New Rochelle, assignor to Level-Line Ceilings Inc., New York, N. Y. Ceiling construction. 2,648,102, Aug. 11.

James, David: *See*—
Manetti, Mario J., and James.

Janusz, Roman N., assignee: *See*—
Wellworth, Roger J.

Jenin, Nicholas R.: *See*—
Jenin, Peter, and N. R.

Jenin, Peter and N. R., Blue Island, Ill. Surfacing composition and method. 2,648,603, Aug. 11.

Jenkins, George F., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gas burner having selectable primary air inlets. 2,648,378, Aug. 11.

Jennings, Frederic B.: *See*—
Stimson, Allen G., Brynes, Jennings, and Taylor.

Jennings, Henry G.: *See*—
Stancliff, Gilbert L., Jr., and Jennings.

Johansson, Johan E., assignor to Aktiebolaget Gotaverken, Goteborg, Sweden. Internal-combustion engine and pneumatic transmission drive. 2,648,189, Aug. 11.

Johns-Manville Corporation, assignee: *See*—
Palumbo, Henry J.

Johnson, Carl E.: *See*—
Welliver, Lawrence G., and Johnson.

Johnson, Ernest W.: *See*—
Weinberg, Elliott L., and Johnson.

Johnson, Ervin G., Eureka, Calif. Time system. 2,648,832, Aug. 11.

Johnson, George C., Los Angeles, Calif. Exercising device. 2,648,332, Aug. 11.

Johnson, James P., Shaker Heights, Ohio. Rotary pump. 2,648,289, Aug. 11.

Johnson, Sidney P., Washington, D. C. Feed pump leakoff system 2,648,285, Aug. 11.

Johnson, William S., Madison, Wis., and D. K. Banerjee, Calcutta, India, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. 1-keto-8RO-1,2,3,-4,4a,5,6,10b,11,12,12a dodecahydrochrysenes. 2,648,679, Aug. 11.

Jonas, David A., Los Angeles, Calif. Hooked fastener and connection for rails used for beds or divans. 2,648,074, Aug. 11.

Jones, Frederick: *See*—
Smith, Esmond W., and Jones.

Jones Steel Products, Inc., assignee: *See*—
Jones, Walter E., and Nielsen.

Jones, Walter E., and G. A. Nielsen, assignors to Jones Steel Products, Inc., Roseville, Calif. Joining press. 2,648,361, Aug. 11.

Jones, Walter L., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener assembly. 2,648,091, Aug. 11.

Jordan, Kurt, and H. Neumann-Lexius, assignors to Brunsviga Maschinenwerke Aktiengesellschaft, Brunswick, Germany. Calculating machine. 2,648,498, Aug. 11.

Jorgensen, Clarence H., W. T. Nickel, H. H. Dietrich, and D. P. Worden, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich. Jet engine fuel controller. 2,648,194, Aug. 11.

Joseph David, Hackensack, N. J. Building block laying device. 2,648,218, Aug. 11.

Joy Manufacturing Company, assignee: *See*—
Fitzgerald, Charles W.
Osgood, Charles F.
Paget, Wm W.

Jubenville, Arthur R., Huntington, N. Y. Electrical test probe. 2,648,826, Aug. 11.

Julian, Percy L., Maywood, E. W. Meyer, and I. Ryden, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. Preparation of 3,20-diketo-17α-hydroxy steroids. 2,648,662, Aug. 11.

Julian, Percy L., Maywood, E. W. Meyer, and I. Ryden, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. Preparation of 17α-hydroxy steroids. 2,648,663, Aug. 11.

Kaiser, Donald W.: *See*—
Roemer, John J., and Kaiser.

Kaiser, Donald W., Old Greenwich, and J. J. Roemer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of guanazoles. 2,648,670, Aug. 11.

Karow, George F., Saginaw, Mich. Motion tranamitting connection. 2,648,581, Aug. 11.

Kasevnlak, Joseph J., Magna, Utah. Concentration of copper oxide ores with nitrites. 2,648,431, Aug. 11.

Kasprow, Anthony F., assignee: *See*—
Swanson, Bror W.

Kasprow, Felix A., assignee: *See*—
Swanson, Bror W.

Kasprow, Joseph W., assignee: *See*—
Swanson, Bror W.

Kasprow, Stephen G., assignee: *See*—
Swanson, Bror W.

Kauffman, Glen W., assignee: *See*—
Parker, Loring S.

Kayler, Frank H., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Resiliently mounted fifth wheel member. 2,648,544, Aug. 11.

Kazebee, Charles R., assignor to France Manufacturing Company, Cleveland, Ohio. System and apparatus for gaseous tubes. 2,648,802, Aug. 11.

Keast, Francis H., Toronto, Ontario, and F. D. M. Williams, Weston, Ontario, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Vaporizer tube system. 2,648,197, Aug. 11.

Kelly, Daniel A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Lubricator applicator for car wheels. 2,648,399, Aug. 11.

Kelly, June L.: *See*—
Gallagher, John P., and Kelly.

Kennametal Inc., assignee: *See*—
McKenna, Philip M., Redmond, and Smith.

Kennedy, Absalom M., Tuscaloosa, Ala. Cyclic process for trating aluminous ores. 2,648,595, Aug. 11.

Kennedy, Bernardine C., and J. F. Kennedy, Philadelphia, Pa. Baby coach cover. 2,648,565, Aug. 11.

Kennedy, Joseph F.: *See*—
Kennedy, Bernardine C. and J. F.

Kennedy, Ridgway, Jr., Drexel Hill, assignor to Abbotts Dairies, Inc., Philadelphia, Pa. Filling containers. 2,648,476, Aug. 11.

Kent, Edward, Detroit, Mich., assignor of twenty-two per cent to C. E. Wisner, twenty-two per cent to C. J. McLeod, and twenty per cent to C. F. Brown. Gas fired air heater. 2,648,323, Aug. 11.

Kent, Edward, Detroit, Mich., assignor of twenty-two per cent to C. E. Wisner, twenty-two per cent to C. J. McLeod, and twenty per cent to C. F. Brown. Gas fired air-heating furnace. 2,648,324, Aug. 11.

Kent, John W., Buffalo, assignor to Remington Rand Inc., New York, N. Y. File compressor. 2,648,337, Aug. 11.

Kenworth Motor Truck Corporation, assignee: *See*—
Brown, Wallace M.

Keuffel & Esser Company, assignee: *See*—
Ewald, George W.
Holtz, Edward H., and Sellen.

Keuper, William J., assignor to The National Marking Machine Company, Cincinnati, Ohio. Type wheel indexing laundry listing machine. 2,648,279, Aug. 11.

Kiefer, Paul J., Jr.: *See*—
Cushman, Maurice E., and Kiefer.

Kiker, Charles W., Jr., Blue Ridge, Ga. Windshield wiper. 2,648,087, Aug. 11.

Kimm, Ewald J.: *See*—
Curtis, Russell R., and Kimm.

Kindred, George C., Searsdale, assignor to Kindred MacLean & Company, Inc., Queens Village, N. Y. Object for display. 2,648,151, Aug. 11.

Kindred MacLean & Company, Inc., assignee: *See*—
Kindred, George C.

Kirby, James B., West Richfield, Ohio. Vacuum cleaner. 2,648,396, Aug. 11.

Kirby, James B., West Richfield, Ohio. Fishing reel. 2,648,506, Aug. 11.

Kirkstall Forge Engineering Limited, assignee: *See*—
Wilson, Ronald H.

Kirlin Company, The, assignee: *See*—
Kirlin, Ivan M.

Kirlin, Ivan M., Detroit, Mich., assignor to The Kirlin Company. Recessed light fixture having heat insulated corner for terminals. 2,648,864, Aug. 11.

Kish, George D.: *See*—
Risley, Roger E., and Kish.

Klitzrow, Herbert, Kettwig-Ruhr, Germany, assignor, by mesne assignments, to J. & P. Coats Limited, Glasgow, Scotland Thread reel. 2,648,507, Aug. 11.

Klee, Howard H.: *See*—
Goodwin, George L., and Klee.

Kling, Robert W., assignor to Athey Products Corporation, Chicago, Ill. Swivel conveyer and means for mounting and driving the same. 2,648,422, Aug. 11.

Klockner-Humboldt-Deutz Aktiengesellschaft, assignee: *See*—
Müller, Franz, and Winners.

Knollman, Harry A., Mount Orab, Ohio, assignor to a partnership composed of F. G. Krueger and F. H. Hudepohl, doing business as Krueger and Hudepohl, Cincinnati, Ohio. Electrical socket connector formed by alternate bands. 2,648,827, Aug. 11.

Kock, Winston E., Basking Ridge, and L. G. Schimpf, New Providence, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Thermoelectric translation device. 2,648,823, Aug. 11.

Kodis, Robert D., Roxbury, Mass. Method and apparatus for magnetic testing. 2,648,435, Aug. 11.

Kohl, Walter H.: *See*—
Fisher, Floyd A., and Kohl.

Kohl, Walter H., assignor to Collins Radio Company, Cedar Rapids, Iowa. Radiation detector. 2,648,779, Aug. 11.

Kopp, Lester G., South Bend, Ind., assignor to Harry Ferguson, Inc., Detroit, Mich. Making rake teeth. 2,648,362, Aug. 11.

Koppers Company, Inc., assignee: *See*—
D'Alello, Gaetano F.

Kosmoski, Bernard J., and G. A. Meyer, Jersey City, N. J. Liquid depth and tank diameter measuring device. 2,648,133, Aug. 11.

Kovach, Louis: *See*—
Hess, Howard V., Arnold, and Kovach.

Kraybill, Henry R.: *See*—
Rendle, Buell W., and Kraybill.

Kritchever, Mathew F., Wilmette, assignor to Traver Corporation, Chicago, Ill. Securing decorative matter to a surface of a polyethylene body. 2,648,097, Aug. 11.

Kritter, Louis, Paris, France. Electric motor with encased rotor. 2,648,786, Aug. 11.

Kroll, Alfred J., Forestville, and A. W. Schnick, assignors to The Cuno Engineering Corporation, Meriden, Conn. Cigar lighter with luminous indicator. 2,648,758, Aug. 11.

Krueger, Frank W., Saratoga, assignor to Be-Ge Manufacturing Co., Gilroy, Calif. Reversible clutch for hydraulic power mechanism. 2,648,416, Aug. 11.

Krueger, Fred G., assignee: *See*—
Knollman, Harry A.

Krueger and Hudepohl, assignee: *See*—
Knollman, Harry A.

Krusi, Jacob, Thayne, Wyo. Protectively coated edible cheese morsels and producing same. 2,648,607, Aug. 11.

Kulp, Maurice P.: *See*—
Vandenburgh, Charles D., and Kulp.

Kulusic, Steve M., Hazel Park, Mich. Attachment for milling or slotting metal parts. 2,648,259, Aug. 11.

Kunz, William J., Port Washington, N. Y., assignor to Combustion Engineering, Inc. Boiler furnace wall construction. 2,648,315, Aug. 11.

Kurtz, Merrill P., Akron, Ohio. Awning and flashing strip therefor. 2,648,105, Aug. 11.

Kutzler, Robert J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety device. 2,648,734, Aug. 11.

Kwikset Locks, Inc., assignee: *See*—
Schoepe, Adolf, and Sinclair.

Lacout, Georges A., assignor to Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), Paris, France. Domestic chopping device for vegetable. 2,648,365, Aug. 11.

Lahousse, Joseph E. G.: *See*—
Casati, Lucienne A. M., Gonnard, and Lahousse.

Lance, Orville P.: *See*—
Neighbour, Leonard B., and Lance.

Lanchester, George H., assignor, by mesne assignments, to Clyde Drilling and Prospecting Equipment Company Limited, Dagenham, England. Rotary earth boring bit. 2,648,526, Aug. 11.

Landon, Robert W., Roscoe, Calif. Push-button latch. 2,648,561, Aug. 11.

Landsverk, Ole G., Mount Healthy, Ohio. Quartz fiber dosimeter. 2,648,777, Aug. 11.

Lane, Charles J., Garden City, N. Y. Vertically sliding door apparatus. 2,648,587, Aug. 11.

Lang, Hiram A.: *See*—
Chesney, Murphy A., and Lang.

Langford, Cary J., White Bear Lake, assignor to Waldorf Paper Products Company, St. Paul, Minn. Display carton. 2,648,427, Aug. 11.

Lanigan, Harold T., Minneapolis, Minn. Piston ring fitting device. 2,648,136, Aug. 11.

Lantz, Robert L., assignor to Compagnie Francaise des Matieres Colorantes S. A. R. L., Paris, France. Preparation of diazo amino compounds and water-insoluble azo dyestuffs on fibers. 2,648,660, Aug. 11.

Lardelli, Otto A., Baden, assignor to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G. Glarus, Switzerland. Cavity resonator magnetron. 2,648,709, Aug. 11.

Laudenberger, John A.: *See*—
Marančik, Frank G., and Laudenberger.

Leake, James M., Monroe, Mich. Engine rocker arm. 2,648,235, Aug. 11.

Lebens, John C., Jr., University City, Mo., assignor to McGraw Electric Company, Elgin, Ill. Protectors for electric circuits. 2,648,739, Aug. 11.

Lee Electronic Labs, Inc., assignee: *See*—
Maloof, Leon S.

Lee, John G., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Variable capacity jet exhaust augmenter. 2,648,192, Aug. 11.

Leeds, Winthrop M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,648,745, Aug. 11.

Lefferdink, Theodore R.: *See*—
Stanton, George W., and Lefferdink.
Stanton, George W., Lefferdink, and Davis.
Stanton, George W., Lefferdink, and Spence.

Leslie, Albert, Shanesville, Pa. Ice sway control. 2,648,402, Aug. 11.

Lesslie, Thomas E., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. N-thio pyrrolidines. 2,648,673, Aug. 11.

Lester, John R., Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Momentary action actuator. 2,648,234, Aug. 11.

Lev, Milton S.: *See*—
Spence, Andrew, Lev, and Reddle.

Level-Line Ceilings Inc., assignee: *See*—
Jacobson, Victor.

Lewis, Allen B., Berkeley, and R. D. Stayner, Albany, assignors to California Research Corporation, San Francisco, Calif. Amides of alkane phosphonic acids. 2,648,706, Aug. 11.

Lignian, Jean A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Aluminum base bearing. 2,648,580, Aug. 11.

Lillienberg, August W., assignor to Lindberg Engineering Company, Chicago, Ill. Furnace for molten metal. 2,648,715, Aug. 11.

Linda, Frank R., White Plains, assignor to St. Regis Paper Company, New York, N. Y. Bag for packaging tacky polymeric materials. 2,648,487, Aug. 11.

Lindberg Engineering Company, assignee: *See*—
Lillienberg, August W.

Lindeman, Jesse G., Yakima, Wash., assignor to Deere & Company, Moline, Ill. Fruit carrier. 2,648,268, Aug. 11.

Lindner, Ralph L., Cleveland, and T. K. Hayes, Cleveland Heights, assignors to Thompson Products, Inc., Cleveland, Ohio. Induction furnace. 2,648,716, Aug. 11.

Lisch, Charles H., Jr.: *See*
Best, William L., and Lisch.

Litvan, Franz: *See*—
Stoll Willy, and Litvan.

Litvan, Franz, and W. Stoll, assignors to J. R. Geigy A. G., Basel, Switzerland. Production of a rodenticidal composition. 2,648,681, Aug. 11.

Litvan, Franz, and W. Stoll, assignors to J. R. Geigy A. G., Basel, Switzerland. 4-hydroxycoumarin derivatives. 2,648,683, Aug. 11.

Livers, Carlos B., North Hollywood, and A. A. Meddock, Van Nuys, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Retainer mechanism for quick disconnect coupling. 2,648,552, Aug. 11.

Lloyd, William E., Homewood, assignor to Armour and Company, Chicago, Ill. Decreasing egg white whipping time. 2,648,606, Aug. 11.

Lockheed Aircraft Corporation, assignee: *See*—
Messinger, Bernard L., Gray, and Richolt.

Lohse, Edward, Brooklyn, and S. H. Gross, New York, assignors to Control Instrument Company, Inc., Brooklyn, N. Y. Positional correspondence indicator for servo mechanisms. 2,648,834, Aug. 11.

Lord Manufacturing Company, assignee: *See*—
Hensbaw, Richard C.

Loving, Frank A., Jr.: *See*—
Coursen, David L., and Loving.

Lower, Fredrick A., Wichita Falls, Tex. Machine for clearing undergrowth from land. 2,648,358, Aug. 11.

Lowmaster, Frank L., assignor to The Mathews Company, Detroit, Mich. Display stand. 2,648,442, Aug. 11.

Ludwig, Norman C.: *See*—
Boris, Matthew J., and Ludwig.

Lurn, Loren E., Chicago, Ill., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Power transmitting mechanism. 2,648,229, Aug. 11.

Lyon, George A., Detroit, Mich. Surface-treating wheel. 2,648,178, Aug. 11.

Lytle, William O., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Transparent conducting films. 2,648,753, Aug. 11.

Lytle, William O., New Kensington, assignor to Pittsburgh Plate Glass Co., Allegheny County, Pa. Electroconductive article. 2,648,754, Aug. 11.

Machian, George R., Cicero, L. R. McClary, Brookfield, and A. J. Prickett, Des Plaines, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for forming parts from brittle metal strip. 2,648,759, Aug. 11.

Macready, George A., Los Angeles, Calif. Making hollow monolithic concrete slabs. 2,648,116, Aug. 11.

Madden, Frank J., trustee, assignee: *See*—
Rendle, Buell W., and Kraybill.

Magin, August: *See*—
Reppe, Walter, and Magin.





Maisner, Herman, Los Angeles, Calif., assignor, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio. Initiation of propellant decomposition. 2,648,190, Aug. 11.

Majik-Ironers, Inc., assignee: *See*—
Foster, Edwin E.

Maloof, Leon S., Watertown, assignor to Lee Electronic Labs, Inc., Roxbury, Mass. Visual electron flow indicator. 2,648,795, Aug. 11.

Malpede, Albert J.: *See*—
Vani, James, and Malpede.

Manes, Milton, L. J. E. Hofer, and R. D. Hinkel, Pittsburgh, Pa. Production of high precision glass stopcocks. 2,648,179, Aug. 11.

Manetti, Mario J., and D. James, Chicago, assignors to E. G. Gantner, Morton Grove, Ill. Dispenser bracket. 2,648,516, Aug. 11.

Manke, George H., South Milwaukee, assignor to McGraw Electric Company, Milwaukee, Wis. Birdproof spark gap for distribution lines. 2,648,796, Aug. 11.

Man-U-Tech, Inc., assignee: *See*—
Thompson, James C.

Maramonte, Michael D., Milwaukee, Wis. Block molding machine. 2,648,115, Aug. 11.

Marančik, Frank G., Union, and J. A. Laudenberger, Cranford, N. J., assignors to Standard Oil Development Company. Offshore ship unloading facilities for high-pressure fluids. 2,648,201, Aug. 11.

Markarian, Moushy: *See*—
Ross, Sidney D., Markarian, and Schroeder.

Marks, William J., Des Moines, Iowa. Fluid pump. 2,648,288, Aug. 11.

Markson, Alfred A., Mount Lebanon, assignor, by mesne assignments, to Hagan Corporation, Pittsburgh, Pa. Vibration damped force measuring device of the diaphragm type provided with a valve for automatically applying a pressure to the diaphragm sufficient to balance the force. 2,648,345, Aug. 11.

Marshall, Emil B., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Meter type relay having levers for resetting its contact arm. 2,648,735, Aug. 11.

Marshall, Leonard J., Oak Ridge, Tenn., assignor to Combustion Engineering, Inc. Support for steam generator drums. 2,648,316, Aug. 11.

Martin, Andrew J., East Orange, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Recovering nicotinic acid from solutions thereof in sulfuric acid. 2,648,668, Aug. 11.

Martin, Eugene, Wesleyville, Pa., assignor to Read Standard Corporation. Feed mechanism. 2,648,446, Aug. 11.

Martin Fabrics Corporation, assignee: *See*—
Ewald, Geroge W.

Martin, John B., Camas, Wash., and C. S. Funk, Hayward, Calif., assignors to Crown Zellerbach Corporation, Camas, Wash. Pressure sensitive adhesive sheet material. 2,648,614, Aug. 11.

Martin, Joseph T., Thomasville, Ga., assignor, by mesne assignments, to Rose Kist Foods, Inc. Apparatus for packaging popcorn. 2,648,479, Aug. 11.

Martin, Joseph T., assignor, by mesne assignments, to Rose Kist Foods, Inc., Thomasville, Ga. Packaged popcorn kernels and popping oil. 2,648,610, Aug. 11.

Martin, Philip, New York, N. Y. Cleaning and filling containers. 2,648,475, Aug. 11.

Martin, William O., Fort Smith, Ark. Railroad brake slack adjuster. 2,648,408, Aug. 11.

Mascarenhas, Eneas G., Minas, Brazil. Copless shuttle loom. 2,648,354, Aug. 11.

Mason, Ralph B., Baton Rouge, La., assignor to Standard Oil Development Company. Higher fatty acid synthesis from oxo bottoms. 2,648,694, Aug. 11.

Massari, Frank, Tampa, Fla. Pouring attachment for containers. 2,648,462, Aug. 11.

Massey-Harris Company, The, assignee: *See*—
Todd, Everett W.

Master Vibrator Company, assignee: *See*—
Clark, Loris D.

Masters, Robert W., Erlton, N. J., assignor to Radio Corporation of America. Wide angle radiation antenna. 2,648,769, Aug. 11.

Mathews Company, The, assignee: *See*—
Lowmaster, Frank L.

Mauborgne, Paul, Niort, Deux Sevres, France. Line controlling device for use with fishing reels. 2,648,505, Aug. 11.

Maule, Trebor C.: *See*—
Siyter, Louis R., and Maule.

Maurer, Edward, deceased, by E. Maurer, administratrix, Freeland, Mich. Means for coupling farming implements to conventional farm tractors adjacent the forward end thereof. 2,648,269, Aug. 11.

Maurer, Edwin R., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Drive control mechanism. 2,648,414, Aug. 11.

Maurer, Esther, administratrix: *See*—
Maurer, Edward.

Maxwell, Carl R., Washington, and K. J. Fleck, assignors to Caterpillar Tractor Co., Peoria, Ill. Centrifugal type governor having hydraulically assisted speed setting control. 2,648,533, Aug. 11.

Mayer, Allan, Katonah, N. Y., assignor to General Precision Laboratory Incorporated. Air squeegee. 2,648,089, Aug. 11.

Mayner, Thomas S., Willoughby Township, Lake County, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for the manufacture of filamentary yarn. 2,648,117, Aug. 11.

Mazzagatti, Roy P.: *See*—
Herzog, Gerhard, and Mazzagatti.

McBurney, Walter G.: *See*—
Williams, Audley O., and McBurney.

McClary, Lee R.: *See*—
Machian, George R., McClary, and Prickett.

McElligott, Edward M., assignor to Swedish Crucible Steel Company, Detroit, Mich. Producing pearlescent plastic articles. 2,648,098, Aug. 11.

McGarry, James W., Cincinnati, Ohio. Valve structure. 2,648,349, Aug. 11.

McGauchie, Ernest F. N., Bentleigh, Victoria, Australia. Means for automatically varying the stroke of pump rods or like reciprocating members. 2,648,198, Aug. 11.

McGraw Electric Company, assignee: *See*—
Lebens, John C., Jr.
Manke, George H.

McGregor, Thurman M., Houston, Tex. Repeating cap gun. 2,648,154, Aug. 11.

McKay, Arthur F., assignor to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence, Ottawa, Ontario, Canada. N-β-nitraminoethyl-N'-aryl-N''-nitroguanidines. 2,648,707, Aug. 11.

McKellin, Wilbur H., Somerville, N. J., F. G. Bordwell, Evanston, Ill., and O. C. E. Fishkill, assignors to The Texas Company, New York, N. Y. Addition product of thianaphthene sulfone and malonic acid esters. 2,648,677, Aug. 11.

McKenna, Philip M., Greensburg, J. C. Redmond and E. N. Smith, Latrobe, assignors to Kennametal Inc., Westmoreland County, Pa. Explosive pressing of powdered compositions. 2,648,125, Aug. 11.

McKinley, John M., Willoughby, H. Phillips, Mentor on the Lake, F. Siciliano, and J. McNeice, Cleveland, Ohio, assignors to Clevite Corporation. Apparatus for manufacturing thin wall precision bearings. 2,648,260, Aug. 11.

McLeod, Clarence J., assignee: *See*—
Kent, Edward.

McMillan, Frank M., Berkeley, and D. E. Winkler, Orinda, assignors to Shell Development Company, San Francisco, Calif. Softening agent for rubber, and resultant rubber composition. 2,648,644, Aug. 11.

McNamee, Raymond W.: *See*—
Stansbury, Harry A., Jr., and McNamee.

McNeice, John: *See*—
McKinley, John A., Phillips, Siciliano, and McNeice.

Mechanical Finishing Co., assignee: *See*—
Tansey, Lawrence J., and Hoy.

Meddock, Alvin A.: *See*—
Livers, Carlos B., and Meddock.

Meeder, Frederick C., Grandville, Mich. Word game device. 2,648,143, Aug. 11.

Mehltretter, Charles L.: *See*—
Dvonch, William, and Mehltretter.

Meier, Johann: *See*—
Mettler, Erhard K., and Meier.

Meletron Corporation, assignee: *See*—
Starbird, George A.

Mellek, John M., Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective plural digit indicator. 2,648,830, Aug. 11.

Meltzer, Jack, Los Angeles, Calif. Making slip-lasted shoes with reinforcing counter and stitched-in sock lining. 2,648,081, Aug. 11.

Merck & Co., Inc., assignee: *See*—
Minlon, Huang.
Minlon, Huang, and Babcock.
Sletzinger, Meyer, and Tishler.

Mercury Sportswear, Inc., assignee: *See*—
Brumberger, Louis.

Merrill Company, The, assignee: *See*—
Ryler, Raymond E., and Dunn.

Mertzweiller, Joseph K., Baton Rouge, La., assignor to Standard Oil Development Company. Making ethereal esters from aliphatic aldehyde esters and aliphatic alcohols. 2,648,692, Aug. 11.

Messinger, Bernard L., Pacific Palisades, H. H. Gray, San Fernando, and R. R. Richolt, Tujunga, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Supercharger duct system. 2,648,490, Aug. 11.

Metal & Thermit Corporation, assignee: *See*—
Weinberg, Elliott L., and Johnson.

Metalcraft Co., assignee: *See*—
Nowell, Richard A.

Mettler, Erhard K., Zollikon (Zurich), and J. Meier, Kusnacht (Zurich), Switzerland. Analytical balance. 2,648,534, Aug. 11.

Meyer, Edwin W.: *See*—
Julian, Percy L., Meyer, and Ryden.

Meyer, George A.: *See*—
Kosmoski, Bernard J., and Meyer.

Meyers, Irving J., Richmond, Va. Soft sided suitcase. 2,648,411, Aug. 11.

Meyers, Irving J., Richmond, Va. Suitcase with soft sides. 2,648,412, Aug. 11.

Mid-West Laundry Machinery Manufacturers, Inc., assignee: *See*—
Petersen, Hans P.

Miketta, C. A., assignee: *See*—
Fullerton, James B.

Mikulášek, Libor, and M. Strnad, Brunn, Czechoslovakia. Operation of combustion motors by hydrazine. 2,648,317, Aug. 11.

Miller, Durando, Jr., Pelham Manor, assignor to The Permutit Company, New York, N. Y. Filter bottom. 2,648,439, Aug. 11.

Miller, John H., Short Hills, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Direct-reading low range ohmmeter. 2,648,820, Aug. 11.

Mills Industries, Incorporated, assignee: *See*—
Bendfelt, Herbert A.

Minkoff, Jouval, Geneva, Switzerland. Binding for loose leaves. 2,648,338, Aug. 11.

Minlon, Huang, Metuchen, assignor to Merck & Co., Inc., Rahway, N. J. Reducing sterlod ketones to their corresponding methylene analogs. 2,648,686, Aug. 11.

Minlon, Huang, Metuchen, N. J., and J. C. Babcock, Cambridge, Mass., assignors to Merck & Co., Inc., Rahway, N. J. Preparing 21-alkyl ethers of cortisone. 2,648,688, Aug. 11.

Minnepolis-Honeywell Regulator Company, assignee: *See*—
Bodey, Charles E.
Jenkins, George F.
Kutzler, Robert J.
Lester, John B.
Smith, Myron R. and H. J.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Nestor, Leonard R.

Misani, Fernanda: *See*—
Reiner, Laszlo, and Fiordalisi.

Mitchell, Frank K.: *See*—
Sheehan, William M., and Mitchell.

Mitchell, Robert D., R. F. Pahl, and H. M. Hunter, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive wheel and bushing therefor and making same. 2,648,177, Aug. 11.

Moeller, Jacob F., Cincinnati, Ohio. Toy drinking animal with capillary tube. 2,648,162, Aug. 11.

Moll, Simon, Pittsburgh, Pa. Dental floss holder. 2,648,341, Aug. 11.

Moller, Clifford B., Boston, Mass. Water purification unit. 2,648,291, Aug. 11.

Monarch Tool & Machinery Co., assignee: *See*—
Budreck, Frances.

Monsanto Chemical Company, assignee: *See*—
De Garmo, Oliver, and Zienty.
Lesslie, Thomas E.
Nielsen, Morris L.
Young, Evan J.
Zienty, Ferdinand B.

Moore, Lee C., Corporation, assignee: *See*—
Iddings, Charles D., Bechtold, and Borg.

Moore, Richard E., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Variable pressure system. 2,648,389, Aug. 11.

Moore, Robert J., Oakland, assignor to Shell Development Company, San Francisco, Calif. Preparing lubricating grease compositions. 2,648,634, Aug. 11.

Mörch, Ernst T., Kansas City, Kans. Laryngoscope. 2,648,329, Aug. 11.

Morgan, Doris E., administratrix: *See*—
Buser, Joseph S.

Morrison, Alexander L., and K. J. M. Andrews, Welwyn Garden City, England, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Bis-quaternary salts of 1:10-bis-(dialkylamino)-5:6-dithia-decane. 2,648,710, Aug. 11.

Morton, Evans T., assignor to Admiral Corporation, Chicago, Ill. Refrigerator cabinet construction. 2,648,584, Aug. 11.

Mostertz, Franz C., Philadelphia, Pa. Thread cutting mechanism. 2,648,355, Aug. 11.

Mounce, Whitman D., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Pulsed sound system. 2,648,837, Aug. 11.

Moyer, C. L., Company, assignee: *See*—
Roessl, Carl A., and Fendius.

Moyer, Frederick D., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Floating roof. 2,648,457, Aug. 11.

Muehlbauer, Fritz, Ludwigshafen (Rhine), Germany. Production of dyestuffs of the phthalocyanine series. 2,648,672, Aug. 11.

Muehlbauer, Fritz, Ludwigshafen (Rhine), Germay. Cobalt phthalocyanine-acetic acid and chlorinated derivatives thereof. 2,648,674, Aug. 11.

Mueller, Walter W., Douglaston, N. Y. Ligature for musical instruments. 2,648,246, Aug. 11.

Mulley, Leo W., Palmyra, assignor of one-third to C. L. Davis, Perry, Mo. Watch balance and staff. 2,648,188, Aug. 11.

Mullen, James W., II, and J. B. Fenn, assignors to Experiment Incorporated, Richmond, Va. Ram jet burner with aqueous injection to promote smooth burning. 2,648,196, Aug. 11.

Müller, Franz, Refrath, and L. H. Wiemers, Köln-Kalk, assignors to Klöckner Humboldt Deutz Aktiengesellschaft, Köln, Germany. Heating apparatus for processing fine-granular material. 2,648,562, Aug. 11.

Mullins, William O., Montgomery, Ala., assignor to Witchen Chemical Company. Cleaning filter sand beds. 2,648,110, Aug. 11

Mundy, Otto S.: *See*—
Fielding, Melvin, and Mundy.

Murray Corporation of America, The, assignee: *See*—
Shapter, Robert D.

Murray, John F.: *See*—
Thoren, Theodore R., Aspelin, and Murray.

Naamloze Vennootschap Maatschappij voor Kolenberwerking Standaardbun, assignee: *See*
Wright, Orrin H., Weaver, and Finch.

Nadell George L., assignee: *See*
Falkenhagen, John C.

National Brass Company, assignee: *See*
Quigley, Herbert, and Young.

National Cash Register Company, The, assignee: *See*
Resch, Carl F.

National Equipment Corporation, assignee: *See*
Greenberg, Joseph, and Perkins.

National Machinery Company, The, assignee: *See*
Friedman, John H.

National Marking Machine Company, The, assignee: *See*
Keuper, William J.

National Research Council, assignee: *See*—
Featonby, Joseph.

National Steel Corporation, assignee: *See*—
Buser, Joseph S.

Neal, Morris P., assignor to A-B-C Packaging Machine Corporation, Moberly, Mo. Carton unloading and unit unscrambling machine. 2,648,450, Aug. 11.

Neander, Karl O., McKeesport, and A. Tepiltz, Pittsburgh, Pa. Apparatus for selectively marking moving strip. 2,648,278, Aug. 11.

Neighbour, Leonard B., and O. P. Lance, assignors to Deere & Company, Moline, Ill. Clutch and brake mechanism and coordinated control therefor. 2,648,415, Aug. 11.

Nelson, Arthur E., St. Louis, Mo. Magnetic lid holder. 2,648,127, Aug. 11.

Nestor, Leonard R., Minneapolis, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Seed carrier. 2,648,165, Aug. 11.

Neumann, Anna, Brooklyn, N. Y. Buckle. 2,648,112. Aug. 11.

Neumann Lezius, Hans: *See*—
Jordan, Kurt, and Neumann-Lezius.

Newby, Neal D., Leonia, and H. E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for generating time position dial pulses. 2,648,836, Aug. 11.

Newton, George R.: *See*—
Silverman, Daniel, Newton, and Skinner.

Nickel, Willard T.: *See*—
Jorgensen, Clarence H., Nickel, Dietrich, and Worden.

Nielsen, Gordon A.: *See*—
Jones, Walter E., and Nielsen.

Nielsen, Morris L., Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Chemical process. 2,648,597, Aug. 11.

Nilsson, Henry O.: *See*—
Phillips, Leonard R., and Nilsson.

Noregnard, Maurice J., North Hollywood, Calif. Lock release operated switch. 2,648,729, Aug. 11.

North American Aviation, Inc., assignee: *See*—
Beach, William I.

Northcott, Roy P.: *See*—
Porter, Frederick W. B., and Northcott.

Northrop Aircraft, Inc., assignee: *See*—
Clifton, John R.

Norton Company, assignee: *See*
Hill, Oiva E.
Silven, Herbert A.
Wheildon, William M., Jr.

Norton, Willie, Wichita, Kans. Evaporative air cooler. 2,648,272, Aug. 11.

Novotny, Dolores Y., St. Louis, Mo. Spool holder. 2,648,501, Aug. 11.

Nowell, Richard A., assignor, by mesne assignments, to Metalcraft Co., Los Angeles, Calif. Bed frame. 2,648,073, Aug. 11.

O'Brien, Harold C., Jr., Beaver, Pa. Flameproofing cellulosic wallboard and article produced thereby. 2,648,615, Aug. 11.

O'Connor, John B., assignor to Illinois Tool Works, Chicago, Ill. Coupled nut and lock washer. 2,648,368. Aug. 11.

Oehler, William P.: *See*—
White, Charles H., and Oehler.

Officine Meccaniche Ceruti S. A., assignee: *See*—
Falconi, Ugo.

Ogawa, Tetsuwo, and M. Ohno, Kawasaki, Japan. Treating protein hydrolysis liquor. 2,648,704, Aug. 11.

Ogden, Daniel E., Hamilton, N. Y. Stanchion for domestic animals. 2,648,308, Aug. 11.





Ohio-Apex, Inc., assignee: *See*
Heiberger, Charles A

Ohno, Mel: *See*
Ogawa, Tetsuwo, and Ohno.

Oleson, Wrisley B., trustee, assignee: *See*
Beadle, Buell W., and Kraybill.

Oliver, Sennet A., Montebello, Calif. Pellet mill 2,648,296, Aug. 11.

Olson, Dan A. H., Huntington Park, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of ammonium sulfate from refinery wastes. 2,648,594, Aug. 11.

Olson, Walter J., Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y. Grab. 2,648,562, Aug. 11.

Osgood, Charles F., Claremont, N. H., assignor to Joy Manufacturing Company. Drill steel guide. 2,648,523. Aug. 11.

Oshry, Howard I.: *See*
Steigerwalt, Oliver L., and Oshry

Otterholm, Cyril J., assignor to Walter Haertel Company, Minneapolis, Minn. Humidity regulating apparatus. 2,648,202, Aug. 11.

Owen, George W., Columbia, S. C. Truck loading device. 2,648,451, Aug. 11.

Pacific Transducer Corporation, assignee: *See*
Argabrite, George A.

Packer, Gordon W., Litchfield, Mich. Playground climber. 2,648,539, Aug. 11.

Paget, Win W., Michigan City, Ind., assignor to Joy Manufacturing Company. Apparatus for providing variable quantities of compressed fluids. 2,648,488, Aug. 11.

Pahl, Raymond F.: *See*—
Mitchell, Robert D., Pahl, and Hunter.

Pall, Francis A., assignor of one-half to I. M. Pall, San Diego, Calif. Saw with a concaved leading chisel edge and planar offset side surface on each tooth. 2,648,360, Aug. 11.

Pall, Isabelle M., assignee: *See*
Pall, Francis A.

Palmer, Dale A., assignor to Patent Development Company, Monroe, Mich. Piston assembly for shock absorbers. 2,648,405, Aug. 11.

Palumbo, Henry J., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Clutch facing and manufacture. 2,648,618, Aug. 11.

Paoli, Stephen A., Rockford, Ill. Shrimp cleaning implement. 2,648,094, Aug. 11.

Paramount Pictures Corporation, assignee: *See*—
Stancliff, Gilbert L., Jr., and Jennings.

Park, Arthur D.: *See*—
Scott, Wylmer L., Park, and Baldwin.

Parker, Loring S., Des Moines, assignor of one-half to G. W. Kauffman, Wankee, Iowa. Variable power steering gear. 2,648,233, Aug. 11.

Parker Pen Company, The, assignee: *See*
Hartell, Floyd E.

Parmelee, Alfred F., assignor to Parmelee Plastics Company, Kansas City, Mo. Hinge structure for goggles. 2,648,067, Aug. 11.

Parmelee Plastics Company, assignee: *See*—
Parmelee, Alfred F.

Pass & Seymour, Inc., assignee: *See*
Despard, Victor R.

"Patelhold" Patentverwertungs- & Elektro-Holding A.-G., assignee: *See*—
Laudelli, Otto A.

Patent Development Company, assignee: *See*
Palmer, Dale A.

Payne, William, assignee: *See*—
Cruse, Joseph E.

Payson, Peter, New York, and J. G. Chow, Long Island City, assignors to Crucible Steel Company of America, New York, N. Y. High strength steel for high-temperature service. 2,648,602, Aug. 11.

Pearsall, Ralph E., Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Guide for two-piece platform wrapper strips. 2,648,302, Aug. 11.

Peck, Carl F., Jersey City, N. J., assignor to American Can Company, New York, N. Y. Container with raised tearing strip tongue. 2,648,459, Aug. 11.

Pendleton, Eleanor E., St. Louis, Mo. Spectacle retaining device. 2,648,255, Aug. 11.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Tiers, Robert H.

Pentz, James B., Staten Island, N. Y. Sterilizer. 2,648,108, Aug. 11.

Perkins, George S.: *See*—
Greenberg, Joseph, and Perkins.

Permutit Company, The, assignee: *See*—
Miller, Durando, Jr.

Perrin, Arthur M., New York, N. Y. Discharging apparatus. 2,648,425, Aug. 11.

Persak, George, Jr., Verona, N. J., assignor to L. E. Rabjohn, Los Angeles County, Calif. Beverage dispenser. 2,648,528, Aug. 11.

Personal Products Corporation, assignee: *See*—
Rudgers, Dorothy F.

Peters, Rudolph, Oakland, Calif. Clamping device. 2,648,240, Aug. 11.

Petersen, Hans P., Wauwatosa, assignor to Mid-West Laundry Machinery Manufacturers, Inc., Milwaukee, Wis. Sliding door construction for washing machines. 2,648,458, Aug. 11.

Peterson, Walter H., Point Richmond, and T Skel, Lafayette, assignors to Shell Development Company, Emeryville, Calif. Grease compositions. 2,648,633, Aug. 11.

Petro-Chem Process Company Incorporated, assignee: *See*—
Throckmorton, John W., and Wallis.

Petzinger, Ambrose J., Fair Lawn, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Var measuring device. 2,648,821, Aug. 11.

Philco Corporation, assignee: *See*—
Bradley, William E.

Phillips, Harold P., and R. J. L. Dutterer, assignors to Hastings Manufacturing Company, Hastings, Mich. Spark plug. 2,648,320, Aug. 11.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,648,582, Aug. 11.

Phillips, Howard: *See*—
McKinley, John A., Phillips, Siciliano, and McNelce.

Phillips, Leonard R., Teaneck, N. J., and H. O. Nilsson, Centerport, assignors to Anemostat Corporation of America, New York, N. Y. Apparatus for measuring velocity and temperature of fluids. 2,648,224, Aug. 11.

Phillips, Robert W., University Heights, assignor to The Weatherhead Company, Cleveland, Ohio. Making a hose end coupling. 2,648,123, Aug. 11.

Philpott, La Verne R., Washington, D. C. Modulation system for cathode-ray oscilloscopes. 2,648,798, Aug. 11.

Phipps, Orville, Adams County, Colo. Core-breaking drill bit for double-flute augers. 2,648,525, Aug. 11.

Pijoan, Michel: *See*
Gerjovich, Henry J., and Pijoan.

Pilet, Eugen, Wilmnis, Switzerland. Traveler for transportation of tree trunks and like loads. 2,648,443. Aug. 11.

Pincus, Gregory: *See*—
Jacobsen, Robert P., and Pincus.

Pittman, Glen R.: *See*
Tucker, Warren R., and Pittman.

Pittsburgh Plate Glass Co., assignee: *See*
Lytle, William O.

Pittsburgh Plate Glass Company, assignee: *See*—
Lytle, William O.
Saunders, Arnold E.

Plos, Otto G.: *See*—
Baur, John W., and Plos.

Pond, Wadsworth E., Los Angeles, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Prewetting in imbibition printing 2,648,280, Aug. 11.

Pond, Harry S., Jr., Mobile, Ala. Air cleaner for internal-combustion engines. 2,648,395, Aug. 11.

Porter, Frederick W. B., and R. P. Northcott, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Catalytic desulfurization of petroleum hydrocarbons. 2,648,623, Aug. 11.

Pratt, Edmond O.: *See*—
Chaffin, Rafe C., and Pratt.

Precision Parts Corporation, assignee: *See*—
Harmon, Paul V.

Preckel, Ralph F., Cumberland, Md., assignor to Hercules Powder Company, Wilmington, Del. Desensitized liquid explosives. 2,648,698, Aug. 11.

Price, Harold W., Pasadena, Calif., and E. E. Hupp, assignors to Bendix Aviation Corporation, South Bend, Ind. Valve mechanism. 2,648,311, Aug. 11.

Prickett, Alfred J.: *See*—
Machlan, George R., McClary, and Prickett.

Prime Manufacturing Company, The, assignee: *See*—
Kelly, Daniel A.

Proctor Electric Company, assignee: *See*—
Vogelsberg, Walter H.

Productive Equipment Corporation, assignee: *See*—
Soldan, Lewis E.

Pure Oil Company, The, assignee: *See*—
Hall, Garland W.

Pursche, Harry A., Gardena, Calif. Two-way disk plow. 2,648,267, Aug. 11.

Puster, Louis M., assignor, by mesne assignments, to The University of Tennessee Research Corporation, Knoxville, Tenn. Fiber length distribution measuring instrument. 2,648,251, Aug. 11.

Qualen, Martin O., Iowa Falls, Iowa. Apparatus to remove tires from rims by vibration. 2,648,374, Aug. 11.

Querry, Merle V.: *See*—
Baker, Bernard B., and Querry.

Quigley, Herbert, Hastings, and H. Young, assignors to National Brass Company, Grand Rapids, Mich. Locking latch. 2,648,560, Aug. 11.

Quin, Aloysius J., North Bergen, N. J., assignor to Brooks Equipment Corporation. Universal joint. 2,648,207, Aug. 11.

Rabjohn, Lloyd E., assignee: *See*—
Persak, George, Jr.

Radio Corporation of America, assignee: *See—*
Ayres, William R., and Smith.
Cohen, Martin J.
Eberhard, Everett.
Ellis, Sidney G., and Stevenson.
Ford, John R., and Bollinger.
Goldsmith, Alfred N.
Houghton, William D.
Masters, Robert W.
Sohon, Harry, and Baker.
Woodward, Oakley McD., Jr.

Ralston, Eldon K., Cleveland Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Valve rotating device. 2,648,319, Aug. 11.

Ramsay, Erskine, and R. T. Bagby, Birmingham, Ala. Apparatus for gaseous reduction of iron ore. 2,648,535, Aug. 11.

Ramsay, William H. W.: *See—*
Gibson, George T., and Ramsay.

Randol, Glenn T., Fort Lauderdale, Fla. Automotive transmission control. 2,648,232, Aug. 11.

Randolph, Alice R., New York N. Y. Manual shaker-type article cleansing apparatus. 2,648,344, Aug. 11.

Raney, William E., Lakewood, Ohio. Tool actuating mechanism and control unit therefor. 2,648,238, Aug. 11.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Remote-controlled valve for windshield cleaners. 2,648,352, Aug. 11.

Ratchford, William P., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. 4,4,6-trimethyl-2-(1-hydroxyethyl)-5,6-dihydro-1,3-4H-oxazine. 2,648,664, Aug. 11.

Ravese, Thomas, Port Chester, N. Y., and E. V. Bentley, Philadelphia, Pa., assignors to Combustion Engineering, Inc. Vapor-from-liquid separator apparatus. 2,648,397, Aug. 11.

Raymond, Richard C., assignor to Haller, Raymond and Brown, Inc., State College, Pa. Indicating and recording systems. 2,648,838, Aug. 11.

Raytheon Manufacturing Company, assignee: *See—*
Dawson, John W., and F. A., and T. A. O. Gross.
Hall, William M., and Gross.

Read Standard Corporation, assignee: *See—*
Martin, Eugene.
Vitz, Carl M.

Reddie, William A.: *See—*
Spence, Andrew, Lev, and Reddie.

Redding, Arnold H., Wallingford, I. R. Whiteman, Philadelphia, and W. F. Thompson, Jr., Wallingford, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Anti-icing apparatus having means to control temperature and pressure of the heating gases. 2,648,193, Aug. 11.

Redmond Company, Inc., assignee: *See—*
Wylie, Andrew R.

Redmond, John C.: *See—*
McKenna, Philip M., Redmond, and Smith.

Reeve, Lewis, assignor to The United Steel Companies, Limited, Sheffield, England. Concentration of iron ore. 2,648,600, Aug. 11.

Reilly, Frank J., Winter Park, Fla. Sofa bed. 2,648,071, Aug. 11.

Reiner, Laszlo, Bloomfield, and F. Flordalisi, nee F. Misani, Newark, N. J., assignors to Wallace & Tiernan Company, Inc. Reaction products of organic sulfoxides and hydrozoic acid. 2,648,705, Aug. 11.

Reinhardt, Robert C., and F. L. Hefner, assignors to Clyde Fabrics, Inc., Newton, N. C. Air cleaner for knitting machines. 2,648,209, Aug. 11.

Remington Rand Inc., assignee: *See—*
Higbee, Eliza B., and Girton.
Kent, John W.
Schremp, Frederick W.

Rench, Carl F., Troy, assignor to The National Cash Register Company, Dayton, Ohio. Electronic impulse generator. 2,648,835, Aug. 11.

Reno, Michael W., and J. E. Dougherty, Philadelphia, Pa. Cake holder for dyeing apparatus. 2,648,214, Aug. 11.

Reppe, Walter, Ludwigshaften (Rhine), and A. Magin, Mutterstadt, Pfalz, Germany. Production of carboxylic acid amides. 2,648,685, Aug. 11.

Research Corporation, assignee: *See—*
Allan, Stuart R.
Waugh, David F.

Revak, Daniel, Donora, and F. W. Riedel, Belle Vernon, Pa., assignors to United States Steel Corporation. Take-up block for wire drawing. 2,648,503, Aug. 11.

Reynolds Metals Company, assignee: *See—*
Baxter, Bruce L.

Richens, Arthur W., Upper Darby, Pa. Making bags. 2,648,263, Aug. 11.

Richolt, Robert R.: *See—*
Messinger, Bernard L., Gray, and Richolt.

Richter, Frederick P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparing a tellurium oxide-containing catalyst. 2,648,638, Aug. 11.

Richter, George A., Jr., Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del. Addition of urea to viscose. 2,648,611, Aug. 11.

Riedel, Frederick W.: *See—*
Revak, Daniel, and Riedel.

Ries, George J., Hinsdale, Ill. Rotary grass and weed trimmers. 2,648,187, Aug. 11.

Riley, Joseph J., and W. S. Dustman, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Electronic sequence control, particularly for travel head seam welders. 2,648,749, Aug. 11.

Risley, Roger E., and G. D. Kish, Bradford, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio. Pipe coupling. 2,648,551, Aug. 11.

Rissman, Sanford, Danville, Ill. Slide fastener construction. 2,648,113, Aug. 11.

Robbins, Homer R., Amarillo, assignor to E. Y. Brown, Fort Worth, Tex. Convertible playground apparatus. 2,648,538, Aug. 11.

Roberts, Glyn P., Wolverhampton, England, assignor to Bendix Aviation Corporation, South Bend, Ind. Braking system for vehicles. 2,648,406, Aug. 11.

Robinson, Richard A., Morton Grove, assignor to G. D. Searle & Co., Chicago, Ill. Quaternary ammonium salts derived from heterocyclylalkyl esters of tropic acid. 2,648,666, Aug. 11.

Robinson, Richard A., Morton Grove, assignor to G. D. Searle & Co., Chicago, Ill. Quaternary ammonium salts of dilsopropylaminoalkyl esters of diphenylacetic acid. 2,648,699, Aug. 11.

Robinson, Sidney, Weston, Mass., assignor to the United States of America as represented by the United States Atomic Enery Commission. Incineration system. 2,648,348, Aug. 11.

Robison, John E., Warren, assignor to Fir-Tex Insulating Board Co., St. Helens, Oreg. Fire retardant coating containing a carbohydrate, urea or melamine-formaldehyde and dicyandiamide or melamine. 2,648,641, Aug. 11.

Rockwell, Ronald J., assignor to Crosley Broadcasting Corporation, Cincinnati, Ohio. Push-pull wide band amplifier. 2,648,727, Aug. 11.

Rodgers, Dorothy E., New York, N. Y., assignor, by mesne assignments, to Personal Products Corporation, North Brunswick Township, N. J. Cleaning swab for toilet bowls and the like. 2,648,085, Aug. 11.

Rodman Chemical Company, assignee: *See—*
Rodman, Hugh, Jr.

Rodman, Hugh, Jr., Pittsburgh, assignor to Rodman Chemical Company, Verona, Pa. Producing activated carbon. 2,648,637, Aug. 11.

Roe, A. V., Canada Limited, assignee: *See—*
Keast, Francis H., and Williams.

Roemer, John J.: *See—*
Kaiser, Donald W., and Roemer.

Roemer, John J., North Stamford, and D. W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Reaction product of sodium dicyanamide and hydroxylamine hydrochloride. 2,648,669, Aug. 11.

Roemer, John J., Stamford, and D. W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of guanazole. 2,648,671, Aug. 11.

Roessl, Carl A., and R. P. Fendlus, assignors to C. L. Moyer Company, Chicago, Ill. Book feed mechanism for trimming machines. 2,648,445, Aug. 11.

Rohr Aircraft Corporation, assignee: *See—*
Valen, Michael A.

Rolls-Royce Limited, assignee: *See—*
Haworth, Lionel.
Wilde, Geoffrey L.

Roloson, William G., and W. J. Spengler, Sidney, assignors to Bendix Aviation Corporation, New York, N. Y. Ignition apparatus. 2,648,791, Aug. 11.

Rolph, Thomas W., and K. Franck, Newark, Ohio, assignors to Holophane Company, Inc., New York, N. Y. Light controlling refractor and luminaire using the same. 2,648,763, Aug. 11.

Rose, Frank W. G.: *See—*
Spenke, Eberhard H. G., Rose, and Waldkötter.

Rose Kist Foods, Inc., assignee: *See—*
Martin, Joseph T.

Rosier, James D., and M. L. S., Montgomery, Ala. Rotary bowl support. 2,648,514, Aug. 11.

Rosier, Mary L. S.: *See—*
Rosier, James D., and M. L. S.

Ross, Sidney D., Williamstown, M. Markarian, North Adams, and W. W. Schroeder, Jr., Williamstown, assignors to Sprague Electric Company, North Adams, Mass. Electrolytic membrane. 2,648,717, Aug. 11.

Rotfeld, Isadore, Philadelphia, Pa. Toy siren and chromatic gun. 2,648,159, Aug. 11.

Rowe, George E., Wethersfield, Conn., assignor to Emhart Manufacturing Company. Suction settle and counterblowing process and apparatus. 2,648,168, Aug. 11.

Rusko, Nicholas M.: *See—*
Scott, Robert J., and Rusko.

Rusnino, James G., Chicago, Ill., assignor to General Electric Company. Dishwashing machine. 2,648,588, Aug. 11.

Russell, George L., Detroit, Mich. Manually operated magnetic sweeper. 2,648,434, Aug. 11.

Russell, Henry F., Quincy, Mass. Piano string-plate mounting. 2,648,245, Aug. 11.

Russell, John D., Los Angeles, Calif. Braking system. 2,648,413, Aug. 11.

Ryden, Isabelle: *See—*
Julian, Percy L., Meyer, and Ryden.







Safety Precisions Limited, assignee: *See—*
Holt, Eugene.

St. Regis Paper Company, assignee: *See—*
Lindu, Frank R.

Sales, Charles M., Seymour, Iowa. Hoist. 2,648,521, Aug. 11.

Sanymetal Products Co., Inc., The, assignee: *See—*
Daugherty, Clyde J., and Anderson.

Saunders, Arnold E., Jefferson Township, Butler County, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Transparent electroconductive article. 2,648,752, Aug. 11.

Savory, Frederick R., Sutton-in-Ashfield, England. Supporting stand suitable for hosiery and underwear linking and seaming machines. 2,648,227, Aug. 11.

Sayer, Charles A., assignor to Cye-Arc Limited, London, England. Electric arc stud welding. 2,648,748, Aug. 11.

Schafer, Paul W.: *See—*
Hathaway, Claude M., Tilton, and Schafer.

Scharer, Oscar: *See—*
Beaulieu, Exra J., Haagensen, and Scharer.

Schechter, William H., Zelienople, Pa. Sodium superoxide production. 2,648,596, Aug. 11.

Scheiwer, Albert T., Erie, Pa. Valved pipe coupling. 2,648,548, Aug. 11.

Scherer, R. P., Corporation, assignee: *See—*
Scherer, Robert P.

Scherer, Robert P., assignor to R. P. Scherer Corporation, Detroit, Mich. Plastic container with rupturable sealed end. 2,648,463, Aug. 11.

Schiedel, George M., Ypsilanti, assignor to Ford Motor Company, Dearborn, Mich. Cutout inspection device. 2,648,817, Aug. 11.

Schimpf, Luther G.: *See—*
Kock, Winston E., and Schimpf.

Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Polyalkylene glycol esters of alkyltetrahydrophenylalkanoic acids. 2,648,693, Aug. 11.

Schmidt-Nickels, Wilhelm, Little York, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Vat dye and intermediate. 2,648,676, Aug. 11.

Schmitt, Heinz E., Dayton, Ohio. Air-cooled turbine blade. 2,648,520, Aug. 11.

Schmuziger, Oscar, Ruschilkon, Switzerland. Elastic sleeve. 2,648,247, Aug. 11.

Schneider, Abraham, assignor to Sun Oil Company, Philadelphia, Pa. Separation of isomeric aromatic compounds. 2,648,712, Aug. 11.

Schneider, Abraham, assignor to Sun Oil Company, Philadelphia, Pa. Separation of isomeric aromatic compounds. 2,648,713, Aug. 11.

Schinck, Arthur W.: *See—*
Kroll, Alfred J., and Schnick.

Schoepe, Adolf, Anaheim, and J. W. Sinclair, Costa Mesa, assignors to Kwikset Locks, Inc., Anaheim, Calif. Lock. 2,648,559, Aug. 11.

Scholin, Axel R., Chicago, Ill. Bag holder. 2,648,512, Aug. 11.

Schoonmaker, Raymond B.: *See—*
Wengen, Henry R., and Schoonmaker.

Schrader, Leo W., Elizabeth, N. J., assignor to Standard Oil Development Company. Flare stack lighter. 2,648,376, Aug. 11.

Schremp, Frederick W., Elmira, assignor to Remington Rand Inc., New York, N. Y. Variable escapement for typewriters. 2,648,418, Aug. 11.

Schroeder, Walter W., Jr.: *See—*
Ross, Sidney D., Markarian, and Schroeder.

Schuch, Martin, Elizabeth, N. J. Ignition tester. 2,648,816, Aug. 11.

Schwertner, Armin W., Vancourt, Tex. Brake control means for trailers. 2,648,407, Aug. 11.

Schwoerer, Mary L., Irvington, N. J. Foundation garment for women. 2,648,068, Aug. 11.

Scott, Carl W.: *See—*
White, Frank J., and Scott.

Scott, Robert J., Blue Springs, Mo., and N. M. Rusko, Missbn Kans., assignors to J. C. Hockery, trustee for H. J. and F. L. Talge, Kansas City, Mo. Steam iron. 2,648,148, Aug. 11.

Scott, Wylmer L., Manheim Township, Lancaster County, A. D. Park, and J. T. Baldwin, assignors to Armstrong Cork Company, Lancaster, Pa. Building structure. 2,648,104, Aug. 11.

Searle, G. D., & Co., assignee: *See—*
Jacobsen, Robert P., and Pincus.
Robinson, Richard A.

Secotan, Inc., assignee: *See—*
Ushakoff, Alexis E.

Sefcovic, Felix S., assignor to fifty per cent to Bernstein Bros. Pipe & Machinery Company, Pueblo, Colo. Vehicle actuated gate. 2,648,149, Aug. 11.

Sellen, Carl R.: *See—*
Holtz, Edward H., and Sellen.

Service Recorder Company, The, assignee: *See—*
Cool, Kenneth A., Hush, Ernst, and Bench.

Shamel, John W., Los Angeles, Calif. Street barricade light securing means. 2,648,761, Aug. 11.

Shapter, Robert D., Corry, Pa., assignor, by mesne assignments, to The Murray Corporation of America. Clothes drier. 2,648,142, Aug. 11.

Sharp, John C., Glen Ellyn, Ill., assignor to General Electric Company. Combined washing machine and spin tub with one-way fluid drive. 2,648,212, Aug. 11.

Shuter, Edward P., Union City, N. J. Swinging sash with a weatherproofing latch. 2,648,106, Aug. 11.

Shea, Della F., Los Angeles, Calif. Collapsible bookstand. 2,648,155, Aug. 11.

Sheehan, William M., Philadelphia, Pa., and F. K. Mitchell, Dobbs Ferry, N. Y.; said Sheehan assignor to General Steel Castings Corporation, Granite City, Ill. Railway gondola car structure. 2,648,294, Aug. 11.

Sheldon, Louis, assignee: *See—*
Gordon, Louis J., and Sheldon.

Shell Development Company, assignee: *See—*
McMillan, Frank M., and Winkler.
Moore, Robert J.
Peterson, Walter H., and Skei.
Smith, Curtis W.
Whetstone, Richard R.

Shields, Robert A., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Vehicle unloader. 2,648,447, Aug. 11.

Shields, Robert A., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Vehicle unloader car. 2,648,448, Aug. 11.

Shinkle, Seaphes D., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Protection of rubber surfaces. 2,648,013, Aug. 11.

Shorek, Leonard J., and W. L. Rest, assignors to Young Brothers Company, Detroit, Mich. Wire enameling oven. 2,648,531, Aug. 11.

Siciliano, Frank: *See—*
McKinley, John M., Phillips, Siciliano, and McNeice.

Siemens-Schuckertwerke, Aktiengesellschaft, assignee: *See—*
Bauer, Friedrich.
Spenke, Eberhard H. G., Rose, and Waldkötter.

Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Grinding machine 2,648,172, Aug. 11.

Silver, Walter H., and J. I. Cantral, assignors to Deere & Company, Moline, Ill. Disk plow wheeled frame. 2,648,270, Aug. 11.

Silverman, Daniel, G. R. Newton, and J. E. Skinner, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Automatic diameter compensation in radiation well logging. 2,648,778, Aug. 11.

Simpson, Clarence E., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Cartridge link and feedwheel for disintegrating belts. 2,648,258, Aug. 11.

Simpson, Frank L., Denver, Colo. Illuminated house number. 2,648,152, Aug. 11.

Sinclair, John W.: *See—*
Schoepe, Adolf, and Sinclair.

Siple, Paul R., Arlington, Va. Body warmer. 2,648,325, Aug. 11.

Skei, Thurston: *See—*
Peterson, Walter H., and Skei.

Skinner, Jimmie E.: *See—*
Silverman, Daniel, Newton, and Skinner.

Skole, Viggo, and H. C. Anderson, Nuerum, near Copenhagen, Denmark. Stocking and making. 2,648,210, Aug. 11.

Sletzinger, Meyer, Forest Hills, N. Y., and M. Tishler, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Methyl chlorpropyl formamide. 2,648,709, Aug. 21.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Compression relieving starting device for internal-combustion engines. 2,648,321, Aug. 11.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Internal-combustion engine lubricating system. 2,648,400, Aug. 11.

Slyter, George W., & Sons, Inc., assignee: *See—*
Slyter, Louis R., and Maule.

Slyter, Louis R., and T. C. Maule, assignors to George W. Slyter & Sons, Inc., Tacoma, Wash. Swivel. 2,648,579, Aug. 11.

Smith, Curtis W., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Intramolecular esters of hydroxy or amino phosphinic acids. 2,648,695, Aug. 11.

Smith, Earl W., Berkeley, Calif. Building construction. 2,648,101, Aug. 11.

Smith, Emlyn N.: *See—*
McKenna, Philip M., Redmond, and Smith.

Smith, Esmond W., Beechcroft, Chislehurst, and F. Jones, Sidcup, assignors to Telegraph Construction and Maintenance Company Limited, London, England. Concentric electric cable with interlocking tubular supports. 2,648,719, Aug. 11.

Smith, Harvey J.: *See—*
Smith, Myron R., and H. J.

Smith, Joel N.: *See—*
Ayres, William R., and Smith.

Smith, Luther A., Birmingham, Ala., assignor to Southern Household Products Company, Inc. Chair with spring seat and back. 2,648,372, Aug. 11.

Smith, Myron R., Minneapolis, and H. J. Smith, St. Louis Park, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic burner control apparatus. 2,648,375, Aug. 11.

Smith, William C., Park Ridge, assignor to Chicago Carton Company, Chicago, Ill. Dispenser. 2,648,429, Aug. 11.

Smithson, Charles B., Jr., Clay Township, St. Joseph, Ind. Motor-driven toothbrush. 2,648,787, Aug. 11.

Societa per Azioni Officine Galileo, assignee: *See*—
Franceschini, Lorenzo.

Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.) assignee: *See*—
Lacout, Georges A.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Casati, Lucienne A. M., Gonnard, and Lahousse.

Societe Jaruza A. G. Chur, assignee: *See*—
Zarn, Adolphe.

Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Cutting web into strips. 2,648,380, Aug. 11.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Olson, Dan A. H.
Richter, Frederick P.

Solon, Harry, Havertown, Pa., and H. F. Baker, Moorestown, N. J., assignors to Radio Corporation of America. Phase shifter. 2,648,811, Aug. 11.

Solar Corporation, assignee: *See*—
Castner, George P.

Soldan, Lewis E., San Diego, Calif., assignor to Productive Equipment Corporation, Chicago, Ill. Vibrating equipment. 2,648,441, Aug. 11.

Solvay & Cie, assignee: *See*—
Basilewsky, Alexis.

Sommer, Benjamin L., Peoria, Ill. Centrifugal paint sprayer. 2,648,568, Aug. 11.

Sorondo, Marcelo S., curator: *See*—
Gerber, Eugenio.

Soss Manufacturing Company, assignee: *See*—
Wilson, Robert J.

Southern Household Products Company, Inc., assignee: *See*—
Smith, Luther A.

Sparks, Van J., assignee: *See*—
Carr, Clifford H.

Spence, Andrew, Houston, Tex., and M. S. Lev and W. A. Reddie, assignors to Armour and Company, Chicago, Ill. Making hide glue. 2,648,059, Aug. 11.

Spence, Thomas C.: *See*—
Stanton, George W., Lefferdink, and Spence.

Spencer, Frank R., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Medium oil alkyd resin surface coating materials and preparing the same. 2,648,642, Aug. 11.

Spengler, Walter J.: *See*—
Goloson, William G., and Spengler.

Spenke, Eberhard H. G., F. W. G. Rose, and E. G. R. Waldkötter, Pretzfeld, assignors to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Controllable electric resistance device. 2,648,805, Aug. 11.

Sperlich, Herman A., Highland Park, assignor to Ironrite, Inc., Mount Clemens, Mich. Ironing machine. 2,648,147, Aug. 11.

Sperry Corporation, The, assignee: *See*—
Hassler, Norman A.

Spiegler, Melvin: *See*—
Berland, Morton, and Spiegler.

Split Ballbearing Corporation, assignee: *See*—
Stearns, Frank H., and Thibault.

Sprague Electric Company, assignee: *See*—
Ross, Sidney D., Markarian, and Schroeder.

Spray Process Co. Inc., assignee: *See*—
Vose, Edwin W.

Stalker, Edward A., Bay City, Mich. Gas turbine incorporating compressor. 2,648,492, Aug. 11.

Stalker, Edward A., Bay City, Mich. Compressor. 2,648,493, Aug. 11.

Stallsmith, Nelson L., Urbana, Ohio. Adjustable bearing support for gearing. 2,648,230, Aug. 11.

Stancliff, Gilbert L., Jr., Burbank, and H. O. Jennings, Los Angeles, Calif., assignors, by mesne assignments, to Paramount Pictures Corporation. Control of camera-subject motion in motion-picture photography. 2,648,252, Aug. 11.

Standard Coil Products Co., Inc., assignee: *See*—
Thias, Edwin P.

Standard Oil Development Company, assignee: *See*—
Adams, William H., and Ervine.
Bennett, Rufus B.
Carrier, E. Wendell.
Dana, Paul M.
Hildebrandt, Alexander R.
Maraocik, Frank G., and Landenberger.
Mason, Ralph B.
Mertzweiller, Joseph K.
Mounce, Whitman D.
Schrader, Leo W.

Standard Telephone and Cables Limited, assignee: *See*—
Wright, Esmond P. G., and Weir.

Stanley, Everett N., Casper, Wyo. Projectile-accelerating mechanism for firearms. 2,648,257, Aug. 11.

Stanolind Oil and Gas Company, assignee: *See*—
Silverman, Daniel, Newton, and Skinner.

Stansbury, Harry A., Jr., and R. W. McNamee, Charleston, W. Va., assignors to Union Carbide and Carbon Corporation. 3-ethoxypropyl 3-ethoxypropionate. 2,648,703, Aug. 11.

Stanton, George W., Walnut Creek, and T. B. Lefferdink, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich. Removing salts from polyacrylonitrile. 2,648,592, Aug. 11.

Stanton, George W., Walnut Creek, and T. B. Lefferdink, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich. Removing salts from polyacrylonitrile. 2,648,593, Aug. 11.

Stanton, George W., Walnut Creek, T. B. Lefferdink, and T. C. Spence, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich. Salt solutions of high acrylonitrile polymers. 2,648,646, Aug. 11.

Stanton, George W., Walnut Creek, T. B. Lefferdink, Concord, and C. W. Davis, Antioch, Calif., assignors to The Dow Chemical Company, Midland, Mich. Polymerizing acrylonitrile in aqueous mixed salts. 2,648,647, Aug. 11.

Stanton, George W., Walnut Creek, T. B. Lefferdink, Concord, and C. W. Davis, Antioch, Calif., assignors to The Dow Chemical Company, Midland, Mich. High acrylonitrile polymer solutions. 2,648,648, Aug. 11.

Stanton, George W., Walnut Creek, T. B. Lefferdink, and T. C. Spence, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich. Acrylonitrile polymers plasticized with aqueous inorganic salt solutions. 2,648,649, Aug. 11.

Starbird, George A., Agoura, Calif., assignor to Meletron Corporation. Hermetically sealed pressure switch. 2,648,732, Aug. 11.

Starbird, George A., Agoura, assignor to Meletron Corporation, Los Angeles, Calif. Pressure operated temperature responsive switch. 2,648,741, Aug. 11.

Stayner, Richard D.: *See*—
Lewis, Allen H., and Stayner.

Stead, Richard H.: *See*—
Swenson, James A., Burns, and Stead.

Stearns, Frank H., Meriden, and A. J. Thibault, Enfield, assignors to Split Ballbearing Corporation, Lebanon, N. H. Bearing and making same. 2,648,578, Aug. 11.

Steiger, Norbert, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Benzamide derivatives. 2,648,708, Aug. 11.

Steigerwalt, Oliver I., and H. I. Oshry, assignors to Erie Resistor Corporation, Erie, Pa. Multiple element circuit components. 2,648,804, Aug. 11.

Stein, Frank R., assignee: *See*—
Stein, Harry C.

Stein, Harry C., Yonkers, N. Y., assignor of one-fifth to L. J. Stein, Houston, Tex., one-fifth to S. M. Stein, New Orleans, La., one-fifth to M. Stein, Jackson Heights, and one-fifth to F. R. Stein, Yonkers, N. Y. Biaxial shoe. 2,648,144, Aug. 11.

Stein, Leonard J., assignee: *See*—
Stein, Harry C.

Stein, Melvin, assignee: *See*—
Stein, Harry C.

Stein, Stanley M., assignee: *See*—
Stein, Harry C.

Stephenson, James R., Winnipeg, Manitoba, Canada. Automatic means for the movement of comminuted materials. 2,648,461, Aug. 11.

Sternbach, Leo H., Upper Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Esters of 1-azabicycloalkanols. 2,648,667, Aug. 11.

Stevenson, Peter C.: *See*—
Ellis, Sidney G., and Stevenson.

Stewart, Henry P., Binghamton, N. Y. Animated doll. 2,648,161, Aug. 11.

Stewart, Robert G., Sr., Pittsburgh, Pa., assignor to United States Steel Corporation. Spring retainer ring. 2,648,557, Aug. 11.

Stichs, Wilhelm, Hanau (Main), Germany, assignor, by mesne assignments, of one-third to The Elwood Research Company, a division of Chiselhurst, Inc., Newark, N. J. Surgical ligature applicator. 2,648,065, Aug. 11.

Stillwagon, George B., Jr., assignor of one-half to K. G. Fraser, Dayton, Ohio. Flexible cover for universal joints. 2,648,208, Aug. 11.

Stimson, Allen G., Lynnfield, K. Brynes, Manchester, P. B. Jennings, Beverly, and C. F. Taylor, Peabody, Mass., assignors to General Electric Company. Logarithmic exposure meter. 2,648,254, Aug. 11.

Stitt, Fred, and Y. Tomimatsu, Berkeley, and A. H. Tjensvold, San Francisco, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Determination of ethylene in gases. 2,648,598, Aug. 11.

Stoll, Willy: *See*—
Litvan, Franz, and Stoll.

Stoll, Willy, and F. Litvan, assignors to J. R. Geigy A. G., Basel, Switzerland. 3-substituted 4-hydroxycoumarins and their production. 2,648,682, Aug. 11.

Strantzel, Clarence W., assignor to The General Fireproofing Company, Youngstown, Ohio. Drawer construction. 2,648,585, Aug. 11.

Streeter, Hale B., Van Nuys, assignor to A. Bontempi, Alhambra, Calif. Razor. 2,648,129, Aug. 11.





Strnad, Milan: *See*—
Mikulášek, Libor, and Strnad.

Strom, Albert P., and T. E. Browne, Jr., Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,648,744, Aug. 11.

Stromberg-Carlson Company, assignee: *See*—
Eberlein, Kurt.

Stuivenberg, Cornelis H., Haarlem, Netherlands. Apparatus for collating punched cards. 2,648,222, Aug. 11.

Sullivan, Michael, Youngstown, Ohio. License tag holder. 2,648,150, Aug. 11.

Sun Oil Company, assignee: *See*—
Schneider, Abraham.

Sundeen, Roy C., Lakewood, Ohio, assignor to Union Carbide and Carbon Corporation. Anode for primary galvanic cell. 2,648,718, Aug. 11.

Surprenant Mfg. Co., assignee: *See*—
Alexander, Donald C.

Swanson, Bror W., West Hartford, assignor, by mesne assignments, to A. F., F. A., J. W., and S. G. Kasprow, New Britain, and M. E. Bailey, New Haven, Conn. Motion converter for screw thread comparator. 2,648,137, Aug. 11.

Swart, Gilbert H., assignor to The General Tire and Rubber Company, Akron, Ohio. Reinforced wire brush. 2,648,084, Aug. 11.

Swed, James P., Gibbstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Closure device. 2,648,282, Aug. 11.

Swedish Crucible Steel Company, assignee: *See*—
McElligott, Edward M.

Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Color temperature meter and color analyzer. 2,648,253, Aug. 11.

Swenson, James A., Waltham, W. E. Burns, Norfolk, and R. H. Stead, Revere, Mass. Apparatus for waving hair. 2,648,339, Aug. 11.

Swenson, James A., Waltham, W. E. Burns, Norfolk, and R. H. Stead, Revere, Mass. Apparatus for waving hair. 2,648,340, Aug. 11.

Swires, William, Helsby, near Warrington, England. Roof construction. 2,648,132, Aug. 11.

Syntron Company, assignee: *See*—
Gilbert, Walter J., Sr.

Szuecs, Joseph, Yonkers, assignor of one-tenth to G. M. Wiles, Roslyn, N. Y. Production of edible mushroom mycelium. 2,648,163, Aug. 11.

Talbot, Richard C.: *See*—
Ferguson, John L., and Talbot.

Talge, Foster L., assignee: *See*—
Scott, Robert J., and Rusko.

Talge, Henry J., assignee: *See*—
Scott, Robert J., and Rusko.

Tan, Swie H., The Hague, Netherlands. Clothes hanger. 2,648,468, Aug. 11.

Tanking, William T., Jr., Racine, Wis. Can opener. 2,648,128, Aug. 11.

Tansey, Lawrence J., Detroit, and J. B. Hoy, Ferndale, Mich., assignors, by mesne assignments, to Mechanical Finishing Co. Filing machine. 2,648,121, Aug. 11.

Taranacki, John, Bronx, N. Y. Broken axle puller. 2,648,564, Aug. 11.

Tatter, John W., Akron, Ohio. Attachment for paint cans. 2,648,460, Aug. 11.

Taylor, Clement F.: *See*—
Stimson, Allen G., Brynes, Jennings, and Taylor.

Taylor, Dwight K.: *See*—
Grimm, Frank C., Jr., and Taylor.

Taylor, Phillip L., Abington, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Exhaust passage and trap means coextensive with arc runners. 2,648,743, Aug. 11.

Taylor-Winfield Corporation, The, assignee: *See*—
Riley, Joseph J., and Dustman.

Teach, Maz K., assignor to The Columbus Show Case Company, Columbus, Ohio. Tiltable merchandise supporting means for store-employed display. 2,648,583, Aug. 11.

Technical Assets, Inc., assignee: *See*—
Chilowsky, Constantin.

Technicolor Motion Picture Corporation, assignee: *See*—
Pohl, Wadsworth E.

Teetsel, Ralph T., Springfield, Pa., assignor to Better Brushes, Incorporated, Palmer, Mass. Cylindrical hairbrush construction. 2,648,082, Aug. 11.

Teichmann, Charles F., Crestwood, assignor to Texaco Development Corporation, New York, N. Y. Microphone. 2,648,828, Aug. 11.

Teitelbaum, Joseph, Brooklyn, N. Y. Display sign. 2,648,537, Aug. 11.

Telegraph Construction and Maintenance Company Limited, assignee: *See*—
Smith, Esmond W., and Jones.

Teletype Corporation, assignee: *See*—
De Boo, Jerome L.

Teplitz, Alfred: *See*—
Neander, Karl O., and Teplitz.

Texaco Development Corporation, assignee: *See*—
Teichmann, Charles F.

Texas Company, The, assignee: *See*—
Hatch, George B.
Herzog, Gerhard.
Herzog, Gerhard, and Mazzagatti.
Hess, Howard V., Arnold, and Kovach.
McKellin, Wilbur H., Bordwell, and Fishkill.

Thias, Edwin P., Los Angeles, Calif., assignor to Standard Coil Products Co., Inc., Chicago, Ill. Ultra high-frequency coupling means. 2,648,814, Aug. 11.

Thibault, Arthur J.: *See*—
Stearns, Frank H., and Thibault.

Thompson, James C., assignor to Man-U-Tech, Inc., Fort Wayne, Ind. Bun toaster. 2,648,275, Aug. 11.

Thompson Products, Inc., assignee: *See*—
Lindner, Ralph L., and Hayes.
Ralston, Eldon K.
Thoren, Theodore R., Aspelin, and Murray.

Thompson, Ralph B., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Stabilization of organic compounds. 2,648,691, Aug. 11.

Thompson, William F., Jr.: *See*—
Redding, Arnold H., Whiteman, and Thompson.

Thoren, Theodore R., Chagrin Falls, L. L. Aspelin, Cleveland Heights, and J. F. Murray, Macedonia, assignors to Thompson Products, Inc., Cleveland, Ohio. Pump. 2,648,287, Aug. 11.

Thorsten, Marie E., executrix: *See*—
Thorsten, Thorleif.

Thorsten, Thorleif, deceased, Pittsburgh, Pa.; M. E. Thorsten, executrix. Fly ash feeder. 2,648,572, Aug. 11.

Throckmorton, John W., and J. S. Wallis, assignors to Petro-Chem Process Company Incorporated, New York, N. Y. Heat control in vertical furnace by fine gas recirculation. 2,648,599, Aug. 11.

Tidd, Gage W., Doylestown, assignor to Harris S. Campbell, Bryn Athyn, Pa. Helicopter transmission mechanism. 2,648,386, Aug. 11.

Tiede, Roland V., Fort Bragg, N. C. Reactive speed-torque control of induction motors. 2,648,808, Aug. 11.

Tiers, Robert H., Ambler, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Cleaner testing apparatus and method. 2,648,220, Aug. 11.

Tilton, Warren D., Jr.: *See*—
Hathaway, Claude M., Tilton, and Schafer.

Timken Roller Bearing Company, The, assignee: *See*—
Horger, Oscar J.

Tishler, Max: *See*—
Sletzinger, Meyer, and Tishler.

Tjensvold, Arnt H.: *See*—
Stitt, Fred, Tomimatsu, and Tjensvold.

Todd, Everett W., assignor to The Massey-Harris Company, Racine, Wis. Rubber tired gauge wheel. 2,648,369, Aug. 11.

Tomaskovic, Frnok, assignee: *See*—
Veschio, Anthony P.

Tomimatsu, Yoshio: *See*—
Stitt, Fred, Tomimatsu, and Tjensvold.

Tornheim, Harold, Chicago, Ill. Harmonic generator. 2,648,812, Aug. 11.

Torrisi, Alfred F., and F. W. Grahame, Pittsfield, Mass., assignors to General Electric Company. Capacitor and manufacture. 2,648,120, Aug. 11.

Tote Engineering, Inc., assignee: *See*—
White, Frank J., and Scott.

Tournier, Marcel C., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Integral electrode with lead wire anchor for piezoelectric crystal. 2,648,785, Aug. 11.

Towmotor Corporation, assignee: *See*—
Frischmann, Joseph A.

Traver Corporation, assignee: *See*—
Kritchever, Mathew F.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Trofimov, Lev A., Willoughby, Ohio. Power winding of strip material. 2,648,502, Aug. 11.

Tucker, Warren R., and G. R. Pittman, assignors to H-P-M Development Corporation, Mount Gilead, Ohio. Control operator for hydraulic pumps. 2,648,312, Aug. 11.

Turnbull, Frederick M.: *See*—
Brown, Frank E., and Turnbull.

Udstad, Sigvald F., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Spring mounting for vehicles. 2,648,530, Aug. 11.

Udylite Corporation, The, assignee: *See*—
Brown, Henry.

Ulrich Foundation, Inc., assignee: *See*—
Ulrich, Raymond M.

Ulrich, Raymond M., Roanoke, Ill., assignor to Ulrich Foundation, Inc. Dustproof hydraulic coupling. 2,648,553, Aug. 11.

Union Carbide and Carbon Corporation, assignee: *See*—
Hanson, Norman D.
Stansbury, Harry A., Jr., and McNamee.
Sundeen, Roy C.

Union Steel Products Company, assignee: *See*—
Bitney, Dewey H.

United Aircraft Corporation, assignee: *See*—
Lee, John G.

United-Carr Fastener Corporation, assignee: *See*—
Bedford, William A.
Jones, Walter I.
Woodward, Clement A.

United Shoe Machinery Corporation, assignee: *See*—
Eppler, Andrew, Jr.
Pearsall, Ralph E.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Robinson, Sidney.

United States Rubber Company, assignee: *See*—
Shinkle, Seaphes D.

United States Steel Corporation, assignee: *See*—
Bateman, Robert N.
Revak, Daniel, and Riedel.
Stewart, Robert G., Sr.
Vickroy, George S.

United Steel Companies, Limited, The, assignee: *See*—
Reeve, Lewis.

Universal Atlas Cement Company, assignee: *See*—
Boris, Matthew J., and Ludwig.

Universal Oil Products Company, assignee: *See*—
Bloch, Herman S.
Schmerling, Louis.
Thompson, Ralph B.

University of Tennessee Research Corporation, The, assignee: *See*—
Puster, Louis M.

Ushakoff, Alexis E., Beverly, assignor to Secotan, Inc., Cambridge, Mass. Apparatus for molding skins. 2,648,079, Aug. 11.

Utica Drop Forge & Tool Corporation, assignee: *See*—
Chappel, Eugene.

Valen, Michael A., assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Sprinkler head. 2,648,570, Aug. 11.

Valley Research Corporation, assignee: *See*—
Dalton, Thomas B.

Vandenberg, Edwin J., assignor to Hercules Powder Company, Wilmington, Del. Low-temperature emulsion polymerization of unsaturated organic compounds. 2,648,655, Aug. 11.

Vandenberg, Edwin J., assignor to Hercules Powder Company, Wilmington, Del. Low-temperature emulsion polymerization of unsaturated organic compounds. 2,648,656, Aug. 11.

Vandenberg, Edwin J., assignor to Hercules Powder Company, Wilmington, Del. Emulsion polymerization of unsaturated organic compounds. 2,648,657, Aug. 11.

Vandenberg, Edwin J., assignor to Hercules Powder Company, Wilmington, Del. Emulsion polymerization of unsaturated organic compounds. 2,648,658, Aug. 11.

Vandenburgh, Charles D., Charlestown, Md., and M. P. Kulp, Marcus Hook, Pa., assignors to American Viscose Corporation, Wilmington, Del. Method and apparatus for producing viscose. 2,648,661, Aug. 11.

Vani, James, and A. J. Malpede, Chicago, Ill., assignors to Washmobile Corporation, Beverly Hills, Calif. Car washing apparatus of the liquid-spray type. 2,648,342, Aug. 11.

Van Ness, La Verne, assignor to Armour and Company, Chicago, Ill. Preparing cholesterol. 2,648,687, Aug. 11.

Van Voorhis, Noble, Los Angeles, Calif. Sound-making wheeled stick horse. 2,648,160, Aug. 11.

Vaughan, Henry E.: *See*—
Newby, Neal D., and Vaughan.

Vendorlator Manufacturing Company, assignee: *See*—
Childers, Harry S.

Veschio, Anthony P., assignor of five per cent to A. Hrebenor, and five per cent to F. Tomaskovic, Monessen, Pa. Coin bank with guarded slot means. 2,648,494, Aug. 11.

Vickers-Armstrongs Limited, assignee: *See*—
Daniels, Flavius K.

Vickroy, George S., Johnstown, Pa., assignor to United States Steel Corporation. Rail fastening device. 2,648,300, Aug. 11.

Vidal, Steven P., Albuquerque, N. Mex. Mop with wringer means. 2,648,086, Aug. 11.

Vilar, Harold N., assignee: *See*—
Wellworth, Roger J.

Vitz, Carl M., York, Pa., assignor to Read Standard Corporation, New York, N. Y. Unloading conveyer. 2,648,421, Aug. 11.

Vogelsberg, Walter H., Wayne, assignor to Proctor Electric Company, Philadelphia, Pa. Control apparatus for electric heating units. 2,648,735, Aug. 11.

Vogelsberg, Walter H., Wayne, assignor to Proctor Electric Company, Philadelphia, Pa. Control apparatus for electric heating units. 2,648,756, Aug. 11.

Vogt, Henry, Machine Company, assignee: *See*—
Heuser, Henry V., and Fitzner.

Volkmann, Willy B.: *See*—
Glueckstein, Henry J., and Volkmann.

Von Schickh, Otto, Ludwigshafen (Rhine), and W. Froese, Weinheim, Bergstrasse, Germany. Plasticized polyvinyl chlorides. 2,648,652, Aug. 11.

Vose, Edwin W., Orange, N. J., assignor to Spray Process Co. Inc. Liquid sprayer. 2,648,369, Aug. 11.

Vroom, Edward, Ossining, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective signaling system. 2,648,831, Aug. 11.

Wagner Brothers, Inc., assignee: *See*—
Donnelly, Harold G.

Wahlfeld, Otto, Peoria, Ill. Siding structure. 2,648,103, Aug. 11.

Waldkötter, Erich G. R.: *See*—
Spenke, Eberhard H. G., Rose, and Waldkötter.

Waldorf Paper Products Company, assignee: *See*—
Langford, Cary J.

Wallace, James M., and A. W. Edwards, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fuse cutout. 2,648,737, Aug. 11.

Wallace, Robert L., Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polyphase oscillator. 2,648,773, Aug. 11.

Wallace & Tiernan Company, Inc., assignee: *See*—
Reiner, Laszlo, and Fiordalisi.

Wallis, John S.: *See*—
Throckmorton, John W., and Wallis.

Walter, Louis M., Republic, Wash. Gripping device with pivoted actuator and having pawl and rack locking means. 2,648,242, Aug. 11.

Walter, William G., Bristol, England. Wave-form analyzing apparatus. 2,648,822, Aug. 11.

War, United States of America as represented by the Secretary of, assignee: *See*—
Simpson, Clarence E.

Warner, Harry C., San Francisco, Calif. Control device for electrical circuits. 2,648,726, Aug. 11.

Washmobile Corporation, assignee: *See*—
Vani, James, and Malpede.

Waters, James L., Inc., assignee: *See*—
Waters, James L.

Waters, James L., assignor to James L. Waters, Inc., Framingham, Mass. Analysis of mixtures. 2,648,775, Aug. 11.

Watkiss, Harold, assignee: *See*—
Harper, Solomon.

Watt, Thomas, Beres, Johannesburg, Transvaal, Union of South Africa. Mounting of ball bearing. 2,648,577, Aug. 11.

Waugh, David F., Watertown, Mass., assignor to Research Corporation, New York, N. Y. Purifying insulin by seeding with unclumped fibrils of insulin. 2,648,622, Aug. 11.

Wayman, Albert J., East Palestine, Ohio. Service cable entrance cap. 2,648,721, Aug. 11.

Weatherhead Company, The, assignee: *See*—
Courtot, Louis B.
Phillips, Robert W.

Weaver, Joseph L.: *See*—
Wright, Orrin H., Weaver, and Fitch.

Weber, Alfred, Chicago, Ill. Safety razor blade plane. 2,648,363, Aug. 11.

Weeks, William J., Florence, S. C. Fertilizer distributor. 2,648,464, Aug. 11.

Weinberg, Elliott L., Long Island City, N. Y., and E. W. Johnson, Westfield, N. J., assignors to Metal & Thermit Corporation, New York, N. Y. Organo tin compounds and compositions containing same. 2,648,650, Aug. 11.

Weir, Donald A.: *See*—
Wright, Esmond P. G., and Weir.

Weiss, Maximilian E., Philadelphia, Pa. Carton holder. 2,648,515, Aug. 11.

Weldon Tool Company, The, assignee: *See*—
Gase, Carl G.

Wellver, Lawrence G., and C. E. Johnson, Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic developer containing a pyridinium salt and process of development. 2,648,604, Aug. 11.

Wellworth, Roger J., assignor of forty per cent to H. N. Vilar, ten per cent to R. N. Janusz, and ten per cent to W. J. Wellworth, Milwaukee, Wis. Snap switch. 2,648,730, Aug. 11.

Wellworth, William J., assignee: *See*—
Wellworth, Roger J.

Wengen, Henry R., and R. B. Schoonmaker, assignors to Fargo Mfg. Company, Inc., Poughkeepsie, N. Y. Cable clamp. 2,648,111, Aug. 11.

Wenner, Wilhelm, Upper Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Amino derivatives of dibenzofuran. 2,648,684, Aug. 11.

Werkland, Harald, Simrishamn, assignor to A B Svenska Skolfastfabriken, Jarrestad, Sweden. Device for making shoe lasts by profile milling. 2,648,357, Aug. 11.

Werner, Leo C., Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Grid construction. 2,648,707, Aug. 11.

Western Electric Company, Incorporated, assignee: *See*—
Barothy, Charles F.
Beaulieu, Ezra J., Haagensen, and Scharer.
Emery, Charles H.
Ertner, Edward W.
Fielding, Melvin, and Mundy.
Machlan, George R., McClary, and Prickett.
Marshall, Emil B.

Westinghouse Electric Corporation, assignee: *See*—
Appleman, Theodore C.
Bradley, Schuyler L.
Eitel, William W., Jr.
Fahnoe, Harold H.
Leeds, Winthrop M.
Petzinger, Ambrose J.
Redding, Arnold H., Whiteman, and Thompson.
Strom, Albert P., and Browne.
Wallace, James M., and Edwards.
Werner, Leo C.

Weston Electrical Instrument Corporation, assignee: *See*—
Miller, John H.





Whelldon, William M., Jr., Framingham, assignor to Norton Company, Worcester, Mass. Bearing combination. 2,648,573, Aug. 11.

Whetstone, Richard R., Orinda, assignor to Shell Development Company, Emeryville, Calif. Mixed acid anhydrides and production of same. 2,648,696, Aug. 11.

White, Charles H., and W. P. Oehler, assignors to Deere & Company, Moline, Ill. Planter. 2,648,301, Aug. 11.

White, Frank J., Seattle, and C. W. Scott, Kirkland, assignors to Tote Engineering, Inc., Seattle, Wash. Shipping container. 2,648,428, Aug. 11.

White, William C., Schenectady, N. Y., assignor to General Electric Company. Electric control system. 2,648,810, Aug. 11.

Whiteman, Irvin R.: *See*—
Redding, Arnold H., Whiteman, and Thompson.

Whitlock, Fred W., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Fluid sterilizer. 2,648,774, Aug. 11.

Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Making a brake beam. 2,648,750, Aug. 11.

Wickell, Floyd, and T. Green, Mount Sterling, Ohio. Straw spreader for combines. 2,648,542, Aug. 11.

Wigton, Paul L., Denver, Colo. Froth flotation apparatus. 2,648,529, Aug. 11.

Wihtol, Weltis, assignor to The Robert Dollar Company, Redwood City, Calif. Thermionic tube and plate assembly for such tubes. 2,648,793, Aug. 11.

Wilde, Geoffrey L., Coxbench, and F. J. Allen, Quarndon, assignors to Rolls-Royce Limited, Derby, England. Centrifugal compressor for supercharging internal-combustion engines. 2,648,195, Aug. 11.

Wiles, George M., assignee: *See*—
Szucs, Joseph.

Wilkerson, Edward D., Orange, N. J. Automobile wheel supporting turnplate. 2,648,139, Aug. 11.

Wilkerson, Edward D., Orange, N. J. Scuff board for testing automobile wheel alignment. 2,648,140, Aug. 11.

Williams, Audley O., and W. G. McBurney, Niagara Falls, Ontario, Canada, assignors to American Cyanamid Company, New York, N. Y. Hood for electric furnace. 2,648,714, Aug. 11.

Williams, Frederick D. M.: *See*—
Keast, Francis H., and Williams.

Wilson, Harry W.: *See*—
Wilson, Jack C., and H. W.

Wilson, Jack C., Garden City, and H. W. Wilson, Hempstead, N. Y. Magnetic wand actuated toy. 2,648,157, Aug. 11.

Wilson, John T.: *See*—
Wilson, Winfred E., and J. T.

Wilson, Robert J., assignor to Soss Manufacturing Company, Detroit, Mich. Multiple leaf concealed hinge. 2,648,093, Aug. 11.

Wilson, Ronald H., Leeds, assignor, by mesne assignments, to Kirkstall Forge Engineering Limited, Kirkstall, Leeds, England. Driving gear for the driven axles of vehicles. 2,648,236, Aug. 11.

Wilson, Van, Lebanon, Ind. Egg candling and grading apparatus. 2,648,430, Aug. 11.

Wilson, Winfred E., Los Angeles, and J. T. Wilson, San Marino, Calif. Means for measuring tension in bolts. 2,648,833, Aug. 11.

Windahl, Everett R., Lansing, Mich. Shovel control. 2,648,231, Aug. 11.

Windsor, R. H., Limited, assignee: *See*—
Baigent, Keith H.

Winkler, De Loss E.: *See*—
McMillan, Frank M., and Winkler.

Wino, Robert G., Oak Park, assignor to American Decalcomania Company, Inc., Chicago, Ill. Stamping machine. 2,648,453, Aug. 11.

Winners, Leonhard H.: *See*—
Müller, Franz, and Winners.

Wisconsin Alumni Research Foundation, assignee: *See*—
Johnson, William S., and Banerjee.
Wurster, Dale E.

Wisner, Charles E., assignee: *See*—
Kent, Edward.

Wittichen Chemical Company, assignee: *See*—
Mullins, William O.

Wockenfuss, William, Union, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company. Card controlled wire printing and feeding means. 2,648,277, Aug. 11.

Wood, Homer J., Sherman Oaks, assignor to The Garrett Corporation, Los Angeles, Calif. Gas turbine auxiliary power plant. 2,648,491, Aug. 11.

Wood, Joseph D., Strafford Village, Teddyffrin Township, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Cascaded breaker system. 2,648,803, Aug. 11.

Woodward, Clement A., Wellesley, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Housing for electrical devices and the like. 2,648,549, Aug. 11.

Woodward, Oakley M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Dipole antenna. 2,648,768, Aug. 11.

Worden, Donald P.: *See*—
Jorgensen, Clarence H., Nickel, Dietrich, and Worden.

Wright, Clifford B.: *See*—
Haines, John F., and Wright.

Wright, Esmond P. G., and D. A. Weir, assignors to Standard Telephone and Cables Limited, London, England. Electrical decoding circuits. 2,648,725, Aug. 11.

Wright, Ira E., Elizabeth City, N. C., assignor of one-half to C. L. Jr., and M. G. Harrell, Norfolk, Va. Flour sifter. 2,648,436, Aug. 11.

Wright, Orrin H., and J. L. Weaver, Brewster, Fla., and E. B. Fitch, Westport, Conn., said Wright and said Weaver assignors, by mesne assignments, to Naamloze Vennootschap Maatschappij voor Kolenberwerking Stamicarbon, Heerlen, Netherlands, and said Fitch assignor to the Dorr Company, Stamford, Conn. Process and apparatus for controlling the density of the apex discharge of a cyclone. 2,648,433, Aug. 11.

Wurster, Dale E., assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Applying coatings to edible tablets or the like. 2,648,609, Aug. 11.

Wylie, Andrew R., assignor to Redmond Company, Inc., Owosso, Mich. Dynamoelectric machine. 2,648,792, Aug. 11.

Yarmak, Julius, Wakefield, Yorkshire, England. Combined shearing and loading machine. 2,648,530, Aug. 11.

Young, Austin E., Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Agitating mechanism for potato diggers. 2,648,437, Aug. 11.

Young Brothers Company, assignee: *See*—
Best, William L., and Lisch.
Shorek, Leonard J., and Best.

Young, Douglas, Inc., assignee: *See*—
Young, Lewis D.

Young, Evan J., Valley Park, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of 4-(acylsulfamyl) derivatives of anilic acids. 2,648,690, Aug. 11.

Young, Herbert: *See*—
Quigley, Herbert, and Young.

Young, Jay C., Angier, N. C. Magnetic toy trapeze. 2,648,158, Aug. 11.

Young, Lewis D., Providence, R. I., assignor to Douglas Young, Inc. Cardboard box spring hinge. 2,648,485, Aug. 11.

Young, Lewis D., Providence, R. I., assignor to Douglas Young, Inc. Cardboard box. 2,648,486, Aug. 11.

Young, William R., Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Noise-detection circuit. 2,648,765, Aug. 11.

Youngblood, Knowles, Atlanta, Ga. Shirt board. 2,648,469, Aug. 11.

Youngs, Alfred B., Yakima, Wash., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Gauge wheel attachment for tool carriers. 2,648,271, Aug. 11.

Zarn, Adolphe, assignor to Societe Jaruza, A. G. Chur, Zurich, Switzerland. Flotation apparatus. 2,648,432, Aug. 11.

Zeder, Henry H., Pleasant Ridge, J. B. Dickson, Highland Park, and E. G. Zeeb, Grosse Pointe Woods, assignors to Chrysler Corporation, Highland Park, Mich. Visor apparatus. 2,648,566, Aug. 11.

Zeeb, Elmer G.: *See*—
Zeder, Henry H., Dickson, and Zeeb.

Zienty, Ferdinand B.: *See*—
De Garmo, Oliver, and Zienty.

Zienty, Ferdinand B., Brentwood, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of p'(benzoylsulfamyl) phthalanilic acid. 2,648,689, Aug. 11.

Zimmerman, Adam, St. Clair Shores, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Apparatus for polishing. 2,648,176, Aug. 11.

Zobel, Theodor W., Braunschweig, Germany. Interferometer apparatus with measuring grid. 2,648,250, Aug. 11.

Zukoski, Charles F., Webster Groves, Mo. File position indicating device. 2,648,336, Aug. 11.

# LIST OF PLANT INVENTIONS

Peach tree. L. L. Frye. 1,210. Aug. 11.

# LIST OF DESIGN INVENTIONS

Advertising device, Display. W. Danziger and V. Achison. 170,151, Aug. 11.
Aquarium, Illuminable floral. C. E. Jones and R. H. Crowle. 170,158, Aug. 11.
Ash tray. R. Wood. 170,177–8, Aug. 11.
Automobile. C. B. Stevens. 170,171, Aug. 11.
Base for table lamps. E. I. Cole. 170,147–8, Aug. 11.
Bicycle frame. V. Schreckengost. 170,169, Aug. 11.
Bird feeder or similar article. H. B. Cowap. 170,150, Aug. 11.
Bottle. A. Y. Schultz. 170,170, Aug. 11.
Cabinet, Television. S. E. Adler. 170,140, Aug. 11.
Calendar or the like. S. Tylon. 170,172, Aug. 11.
Camera, Photographic. G. Bucky. 170,145, Aug. 11.
Clothesline reel. A. E. Ogren. 170,162, Aug. 11.
Container or the like, Condiment. M. S. Ziskin and R. B. Billig. 170,180, Aug. 11.
Coverall-apron, Child's. A. Hagan. 170,156, Aug. 11.
Decorative panelling, Embossed. L. G. Buckley. 170,144, Aug. 11.
File box or similar article. N. W. Roop. 170,165, Aug. 11.
Firecracker cannon. D. P. Davis and D. C. Maddux. 170,153, Aug. 11.
Girdle. G. A. Barcley. 170,141–2, Aug. 11.
Gravy boat or the like. M. Rosen. 170,167, Aug. 11.
Lamppost and sign, Combined. H. A. Daum. 170,152, Aug. 11.
Lavatory, Portable. I. Levin. 170,159, Aug. 11.
Mailbox or similar article. N. W. Roop. 170,166, Aug. 11.
Percolator, Electric. R. C. Nicolay. 170,161, Aug. 11.
Pitcher or similar article. C. J. Uhrmann. 170,173, Aug. 11.
Polishing machine, Floor. E. L. Verhagen. 170,176, Aug. 11.
Pull for drawers, cabinet doors and the like. D. Heyer. 170,157, Aug. 11.
Rug or similar article. M. R. Denes. 170,154, Aug. 11.
Scooter, Child's. F. R. Minozzi. 170,160, Aug. 11.
Spectale frame ornament. A. DiChiara. 170,155, Aug. 11.
Toy compass. L. E. Cooke. 170,149, Aug. 11.
Toy gun. G. C. Schaible. 170,168, Aug. 11.
Toy store. A. E. Beethoven. 170,143, Aug. 11.
Toy, Walking. L. J. Campbell. 170,146, Aug. 11.
Tray. W. H. Randall. 170,164, Aug. 11.
Tray, Carrying. W. H. Randall. 170,163, Aug. 11.
Vehicle drying unit, Automotive. J. Vani and A. J. Malpede. 170,174–5, Aug. 11.
Watch, Wrist. A. Wyler. 170,179, Aug. 11.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 11TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive wheel and bushing therefor and making same. R. D. Mitchell, R. F. Pahl, and H. M. Hunter. 2,648,177, Aug. 11.
Accumulator drive control mechanism. R. E. Boyden. 2,648,497, Aug. 11.
Acrylonitrile polymers plasticized with aqueous inorganic salt solutions. G. W. Stanton, T. B. Lefferdink, and T. C. Spence. 2,648,649, Aug. 11.
Activated carbon, Producing. H. Rodman, Jr. 2,648,637, Aug. 11.
Addition of urea to viscose. G. A. Richter, Jr. 2,648,611, Aug. 11.
Addition product of thianaphthene sulfone and malonic acid esters. W. H. McKellin, F. G. Bordwell, and O. C. E. Fishkill. 2,648,677, Aug. 11.
Adhesive sheet material, Pressure sensitive. J. B. Martin and C. S. Funk. 2,648,614, Aug. 11.
Adjusting means for slidable side jaw wrenches. F. A. Calbo Alemany. 2,648,244, Aug. 11.
Adjustment retarder for slidable side jaw wrenches. E. Chappel. 2,648,243, Aug. 11.
Aerial, Resonant. E. C. Cork. 2,648,771, Aug. 11.
Agitating mechanism for potato diggers. A. E. Young. 2,648,437, Aug. 11.
Air cleaner for internal-combustion engines. H. S. Pond, Jr. 2,648,395, Aug. 11.
Air cleaner for knitting machines. R. C. Reinhardt and F. L. Hefner. 2,648,209, Aug. 11.
Air extractor. L. G. Crook. 2,648,474, Aug. 11.
Airplane wheel. I. F. Chapin. 2,648,571, Aug. 11.
Aluminum base bearing. J. A. Lignian. 2,648,580, Aug. 11.
Amides of alkane phosphonic acids. A. H. Lewis and R. D. Stayner. 2,648,700, Aug. 11.
Amino derivatives of dibenzofuran. W. Wenner. 2,648,684, Aug. 11.
Ammonium sulfate from refinery wastes, Manufacture of. D. A. H. Olson. 2,648,594, Aug. 11.
Amplifier, Electromechanical. N. A. Hassler. 2,648,815, Aug. 11.
Amplifier, Push-pull wide band. R. J. Rockwell. 2,648,727, Aug. 11.
Analysis of mixtures. J. L. Waters. 2,648,775, Aug. 11.
Analytical balance. E. K. Mettler and J. Meier. 2,648,534, Aug. 11.
Anode for electrolytic condensers. J. B. Brennan. 2,648,119, Aug. 11.
Anode for primary galvanic cell. R. C. Sundeen. 2,648,718, Aug. 11.
Antenna, Dipole. O. McD. Woodward, Jr. 2,648,768, Aug. 11.
Antenna, Radio. B. W. Blanchard, Jr. 2,648,770, Aug. 11.
Antenna system, Direction finding. J. R. Ford and W. P. Hollinger. 2,648,839, Aug. 11.
Antenna, Wide angle radiation. R. W. Masters. 2,648,769, Aug. 11.
Antideflection roll. L. Hornbostel. 2,648,122, Aug. 11.
Anti-icing apparatus having means to control temperature and pressure of the heating gases. A. H. Redding, I. R. Whiteman, and W. F. Thompson, Jr. 2,648,193, Aug. 11.
Apparatus for collating punched cards. C. H. Stuivenberg. 2,648,222, Aug. 11.
Apparatus for cutting tubing. R. I. Hahn and B. E. Frank. 2,648,384, Aug. 11.
Apparatus for dry spinning artificial fibers. G. Curtis. 2,648,095, Aug. 11.
Apparatus for dust prevention. K. J. Bores. 2,648,241, Aug. 11.
Apparatus for finishing hardened surfaces on frames for power saws. R. S. Carroll. 2,648,173, Aug. 11.
Apparatus for forming parts from brittle metal strip. G. R. Machlan, L. R. McClary, and A. J. Prickett. 2,648,759, Aug. 11.
Apparatus for gaseous reduction of iron ore. E. Ramsay and R. T. Bagby. 2,648,535, Aug. 11.
Apparatus for generating time position dial pulses. N. D. Newby and H. E. Vaughan. 2,648,836, Aug. 11.
Apparatus for introducing cut film into cameras. P. B. Candela. 2,648,265, Aug. 11.
Apparatus for manufacturing thin wall precision bearings. J. M. McKinley, H. Phillips, F. Sicilliano, and J. McNeice. 2,648,260, Aug. 11.
Apparatus for measuring velocity and temperature of fluids. L. R. Phillips and H. O. Nilason. 2,648,224, Aug. 11.
Apparatus for molding skins. A. E. Ushakoff. 2,648,079, Aug. 11.
Apparatus for packaging popcorn. J. T. Martin. 2,648,479, Aug. 11.
Apparatus for packing food products. E. H. Carruthers. 2,648,478, Aug. 11.
Apparatus for polishing. A. Zimmerman. 2,648,176, Aug. 11.
Apparatus for providing variable quantities of compressed fluids. W. W. Paget. 2,648,488, Aug. 11.
Apperatus for selectively marking moving strip. K. O. Scander and A. Teplitz. 2,648,278, Aug. 11.
Apparatus for the manufacture of filamentary yarn. T. S. Mayner. 2,648,117, Aug. 11.
Apparatus for waving hair. J. A. Swenson, W. E. Burns, and R. H. Stead. 2,648,339–40, Aug. 11.
Apparatus to remove tires from rims by vibration. M. O. Qualen. 2,648,374, Aug. 11.
Applying artificial respiration, Means for. V. R. Bennett. 2,648,331, Aug. 11.
Applying coatings to edible tablets or the like. D. E. Wurster. 2,648,609, Aug. 11.
Arukyl carbonates, Preparing. C. A. Helberger. 2,648,678, Aug. 11.
Arc chute plate. W. H. Edmunds. 2,648,742, Aug. 11.
Article cleansing apparatus, Manual shaker-type. A. R. Randolph. 2,648,344, Aug. 11.
Attachment for line casting machines. J. F. Hazzard and G. R. Brusseau. 2,648,426, Aug. 11.
Attachment for milling or slotting metal parts. S. M. Kulusic. 2,648,259, Aug. 11.
Attachment for paint cans. J. W. Tatter. 2,648,460, Aug. 11.
Audio sweep frequency generator. G. A. Argabrite. 2,648,782, Aug. 11.
Automatic device for controlling gas and air mixtures. F. C. Grimm, Jr. and D. K. Taylor. 2,648,809, Aug. 11.
Automatic high-pressure valve. F. Fahnoe. 2,648,347, Aug. 11.
Automatic lighting circuit. R. E. Hall. 2,648,801, Aug. 11.
Automatic means for the movement of comminuted materials. J. R. Stephenson. 2,648,461, Aug. 11.
Automatically varying the stroke of pump rods or like reciprocating members, Means for. E. F. N. McGauchie. 2,648,198, Aug. 11.
Automobile wheel supporting turnplate. E. D. Wilkerson. 2,648,139, Aug. 11.
Automotive wheel tool. L. A. Flickinger. 2,648,126, Aug. 11.
Awning and flashing strip therefor. M. P. Kurtz. 2,648,105, Aug. 11.
Azeotropic distillation for recovery of aromatic fractiana containing naphthalene. H. V. Hess, G. B. Arnold, and L. Kovach. 2,648,624, Aug. 11.
Baby coach cover. B. C. and J. F. Kennedy. 2,648,565, Aug. 11.
Bag: *See*—
  Nurse's bag.
Bag for packaging tacky polymeric materials. F. R. Linda. 2,648,487, Aug. 11.
Bag holder. A. R. Scholin. 2,648,512, Aug. 11.
Bags, Making. A. W. Richens. 2,648,263, Aug. 11.
Bank with guarded slot means, Coin. A. P. Veschio. 2,648,494, Aug. 11.
Bearing: *See*—
  Aluminum base bearing. Shaft bearing.
  Railway car axle bearing.
Bearing and making same. F. H. Stearns and A. J. Thibault. 2,648,578, Aug. 11.
Bearing combination. W. M. Wheildon, Jr. 2,648,573, Aug. 11.
Bearing support for gearing, Adjustable. N. L. Stallsmith. 2,648,230, Aug. 11.
Bed cushion for automobiles. J. D. De Blieux. 2,648,072, Aug. 11.
Bed frame. R. A. Nowell. 2,648,073, Aug. 11.
Bed, Sofa. F. J. Reilly. 2,648,071, Aug. 11.
Beehive, Stingless. C. A. Garrett. 2,648,076, Aug. 11.
Benzamide derivatives. N. Steiger. 2,648,708, Aug. 11.
Beverage dispenser. G. Persak, Jr. 2,648,528, Aug. 11.
Binding for loose leaves. J. Minkoff. 2,648,338, Aug. 11.
Bit: *See*—
  Rotary earth boring bit.
Bis-quaternary salts of 1:10-bis-(dialkylamino)-5:6-dithia-decane. A. L. Morrison and K. J. M. Andrews. 2,648,710, Aug. 11.

Board: *See*—
Shirt board.
Body warmer. P. A. Siple. 2,648,325, Aug. 11.
Bogey for multiaxle trucks, Driven steerable. W. M. Brown. 2,648,392, Aug. 11.
Book feed mechanism for trimming machines. C. A. Roessl and R. P. Fendius. 2,648,445, Aug. 11.
Bookkeeping device. A. J. Bickel. 2,648,547, Aug. 11.
Bookstand, Collapsible. D. F. Shea. 2,648,155, Aug. 11.
Booster for air brake systems. C. D. Dyer. 2,648,489, Aug. 11.
Box: *See*—
Cardboard box. Flower box.
Bracket: *See*—
Dispenser bracket.
Brake. A. Y. Dodge. 2,648,403, Aug. 11.
Brake. E. K. Dombeck. 2,648,404, Aug. 11.
Brake beam, Making a. L. L. Whitney. 2,648,750, Aug. 11.
Brake control means for trailers. A. W. Schwertner. 2,648,407, Aug. 11.
Brake slack adjusters, Railroad. W. O. Martin. 2,648,408, Aug. 11.
Braking system. J. D. Russell. 2,648,413, Aug. 11.
Braking system for vehicles. G. P. Roberts. 2,648,406, Aug. 11.
Brassière. W. Blank. 2,648,070, Aug. 11.
Brassière. M. M. Gil. 2,648,069, Aug. 11.
Breaker system, Cascaded. J. D. Wood. 2,648,803, Aug. 11.
Bright nickel plating composition and process. H. G. Donnelly. 2,648,627, Aug. 11.
Broken axle puller. J. Tarapacki. 2,648,564, Aug. 11.
Brush and nesting case, Hand. M. A. Chesney and H. A. Lang. 2,648,083, Aug. 11.
Brush, Reinforced wire. G. H. Swart. 2,648,084, Aug. 11.
Buckle. A. Neumann. 2,648,112, Aug. 11.
Building block laying device. D. Joseph. 2,648,218, Aug. 11.
Building construction. E. W. Smith. 2,648,101, Aug. 11.
Building structure. W. L. Scott, A. D. Park, and J. T. Baldwin. 2,648,104, Aug. 11.
Burner: *See*—
Internal lathe burner.
Burner and draft shield, Gas pilot. C. E. Bodey. 2,648,377, Aug. 11.
Burner control apparatus, Electronic. M. R. and H. J. Smith. 2,648,375, Aug. 11.
Burner having selectable primary air inlets, Gas. G. F. Jenkins. 2,648,378, Aug. 11.
Burner with aqueous injection to promote smooth burning, Ram jet. J. W. Mullen, II, and J. B. Fenn. 2,648,196, Aug. 11.
Cabinet: *See*—
Shower cabinet.
Cabinet construction, Refrigerator. E. T. Morton. 2,648,584, Aug. 11.
Cable adjusting device. E. H. Cline. 2,648,109, Aug. 11.
Cable clamp. H. R. Wengen and R. B. Schoonmaker. 2,648,111, Aug. 11.
Cake holder for dyeing apparatus. M. W. Reno and J. E. Dougherty. 2,648,214, Aug. 11.
Calcium manganate-aluminum oxide catalyst. R. B. Bennett. 2,648,639, Aug. 11.
Calculating machine. K. Jordan and H. Neumann-Lezius. 2,648,498, Aug. 11.
Camera slide. R. M. Daly. 2,648,266, Aug. 11.
Cap: *See*—
Service cable entrance cap.
Capacitor and manufacture. A. F. Torrisi and F. W. Grahame. 2,648,120, Aug. 11.
Car: *See*—
Convertible railway car. Vehicle unloader car.
Car structure, Railway gondola. W. M. Sheehan and F. K. Mitchell. 2,648,294, Aug. 11.
Car washing apparatus of the liquid-spray type. J. Vani and A. J. Malpede. 2,648,342, Aug. 11.
Carboxylic acid amides, Production of. W. Reppe and A. Magin. 2,648,685, Aug. 11.
Cardboard box. L. D. Young. 2,648,486, Aug. 11.
Carrier: *See*—
Seed carrier. Unit carrier.
Cart for golf bags. R. K. Cassidy. 2,648,545, Aug. 11.
Carton, Display. C. J. Langford. 2,648,427, Aug. 11.
Carton holder. M. E. Weiss. 2,648,515, Aug. 11.
Carton unloading and unit unscrambling machine. M. P. Neal. 2,648,450, Aug. 11.
Cartridge closure assembly, Pressure resistant blasting. D. L. Coursen and F. A. Loving, Jr. 2,648,283, Aug. 11.
Cartridge link and feedwheel for disintegrating belts. C. E. Simpson. 2,648,258, Aug. 11.
Case loader and sealer. J. L. Ferguson and R. C. Talbot. 2,648,182, Aug. 11.
Catalytic desulfurization of petroleum hydrocarbons. F. W. B. Porter and R. P. Northcott. 2,648,623, Aug. 11.
Cavity resonator magnetron. O. A. Lardelli. 2,648,799, Aug. 11.
Ceiling construction. V. Jacobson. 2,648,102, Aug. 11.
Cement composition with additive to reduce water loss from a slurry thereof. M. J. Boris and N. C. Ludwig. 2,648,645, Aug. 11.
Centrifugal apparatus for separating gases from liquids. A. Cresswell. 2,648,496, Aug. 11.
Chain structure for trenching machines, Endless bucket. A. R. Askue. 2,648,145, Aug. 11.
Chair: *See*—
Foldable lounge chair.
Chair with spring seat and back. L. A. Smith. 2,648,372, Aug. 11.
Cheese morsels and producing same, Protectively coated edible. J. K. Rust. 2,648,607, Aug. 11.
Chemical process. M. L. Nielsen. 2,648,597, Aug. 11.
Chicken chute. M. E. Bowers. 2,648,307, Aug. 11.
Chlorinated n-ethyl acetanilide insecticide spray composition. H. J. Gerjovich and M. Pijoan. 2,648,621, Aug. 11.
Cholesterol, Preparing. L. Van Ness. 2,648,687, Aug. 11.
Chopping device for vegetable matter, Domestic. G. A. Lacout. 2,648,365, Aug. 11.
Circuit: *See*—
Automatic lighting circuit. Noise detection circuit.
Circuit breaker, Automatic. P. M. Christensen. 2,648,736, Aug. 11.
Circuit components, Multiple element. O. I. Steigerwalt and H. I. Oshry. 2,648,804, Aug. 11.
Circuit interrupter. W. M. Leeds. 2,648,745, Aug. 11.
Circuit interrupter. A. P. Strom and T. E. Browne, Jr. 2,648,744, Aug. 11.
Circuits, Electrical decoding. E. P. G. Wright and D. A. Weir. 2,648,725, Aug. 11.
Circuits, Magnetron control. J. W. Dawson and F. A. and T. A. O. Gross. 2,648,772, Aug. 11.
Clamp: *See*—
Cable clamp.
Clamping device. R. Peters. 2,648,240, Aug. 11.
Cleaner: *See*—
Core cleaner. Vacuum cleaner.
Inertial air cleaner.
Cleaner testing apparatus and method. R. H. Tiers. 2,648,220, Aug. 11.
Cleaning and filling containers. P. Martin. 2,648,475, Aug. 11.
Cleaning filter sand beds. W. O. Mullins. 2,648,440, Aug. 11.
Cleaning implement, Shrimp. S. A. Paoli. 2,648,094, Aug. 11.
Cleansing tissue, Felted water-soluble. R. J. Brown, J. Downing, and W. H. Groombridge. 2,648,635, Aug. 11.
Clearance angle gauge. C. G. Case. 2,648,138, Aug. 11.
Closure device. J. P. Swed. 2,648,282, Aug. 11.
Closure for containers, Safety. E. Holt. 2,648,467, Aug. 11.
Clothes drier. R. D. Shapter. 2,648,142, Aug. 11.
Clothes hanger. S. H. Tan. 2,648,468, Aug. 11.
Clutch and brake mechanism and coordinated control therefor. L. B. Neighbour and O. P. Lance. 2,648,415, Aug. 11.
Clutch facing and manufacture. H. J. Palumbo. 2,648,618, Aug. 11.
Clutch for hydraulic power mechanism, Reversible. F. W. Krueger. 2,648,416, Aug. 11.
Coating containing a carbohydrate, urea or melamine-formaldehyde and dicyandiamide or melamine, Fire retardant. J. E. Robison. 2,648,641, Aug. 11.
Cobalt phthalocyanine-acetic acid and chlorinated derivatives thereof. F. Muehlbauer. 2,648,674, Aug. 11.
Code recognition system. W. R. Ayres and J. N. Smith. 2,648,829, Aug. 11.
Coin-controlled mechanism. H. S. Childers. 2,648,417, Aug. 11.
Collar support. C. A. Calder. 2,648,470, Aug. 11.
Compositions containing polymerized acrylonitrile and solvent therefor. G. F. D'Alelio. 2,648,653, Aug. 11.
Compressor. E. A. Stalker. 2,648,493, Aug. 11.
Compressor for supercharging internal-combustion engines, Centrifugal. G. L. Wilde and F. J. Allen. 2,648,195, Aug. 11.
Concentration of copper oxide ores with nitrites. J. J. Kusevnik. 2,648,431, Aug. 11.
Concentration of iron ore. L. Reeve. 2,648,600, Aug. 11.
Confectionery machine. J. Greenberg and G. S. Perkins. 2,648,295, Aug. 11.
Container: *See*—
Cable clamp.
Easy packing deep container. Knockdown streamline container.
Heavy duty fiber container. Shipping container.
Container with raised tearing strip tongue. C. F. Peck. 2,648,459, Aug. 11.
Container with rupturable sealed end, Plastic. R. P. Scherer. 2,648,463, Aug. 11.
Container with viewing window, Dual. W. H. Colgate. 2,648,156, Aug. 11.
Control apparatus for electric heating units. W. H. Vogelsberg. 2,648,755-6, Aug. 11.
Control device for electrical circuits. H. C. Warner. 2,648,726, Aug. 11.
Control means for automatic grinding machines. W. F. Fraser. 2,648,175, Aug. 11.
Control of camera-subject motion in motion-picture photography. G. L. Stancliff, Jr., and H. G. Jennings. 2,648,252, Aug. 11.
Control operator for hydraulic pumps. W. R. Tucker and G. R. Pittman. 2,648,312, Aug. 11.
Controllable electric resistance device. E. H. G. Spenke, F. W. G. Rose, and E. G. R. Waldkötter. 2,648,805, Aug. 11.





Controlling the density of the apex discharge of a cyclone, Process and apparatus for. O. H. Wright, J. L. Weaver, and E. B. Fitch. 2,648,433, Aug. 11.
Controlling the motion of masses adapted to perform rotational and rectilinear motion, Means for. F. K. Daniels. 2,648,281, Aug. 11.
Convertible railway car. G. B. Dorey. 2,648,293, Aug. 11.
Conveyer and means for mounting and driving the same, Swivel. R. W. Kling. 2,648,422, Aug. 11.
Conveyer, Endless belt. T. R. Black. 2,648,423, Aug. 11.
Conveyer, Unloading. C. M. Vitz. 2,648,421, Aug. 11.
Cooler: *See*—
Evaporative air cooler.
Cooling aggregates, Method and apparatus for. C. H. Carr. 2,648,206, Aug. 11.
Copless shuttle loom. E. G. Mascarenhas. 2,648,354, Aug. 11.
Core cleaner. K. B. Esters. 2,648,170, Aug. 11.
Correspondence indicator for servo mechanisms, Positional. E. Lohse and S. H. Gross. 2,648,834, Aug. 11.
Coupling: *See*—
Dustproof hydraulic coupling. Resilient interchangeable tube coupling.
Pipe coupling. Valved pipe coupling.
Coupling farming implements to conventional farm tractors adjacent the forward end thereof, Means for. E. Maurer. 2,648,269, Aug. 11.
Coupling for ganged rotatably controlled units. H. J. Glueckstein and W. B. Volkmann. 2,648,555, Aug. 11.
Coupling, Making a hose end. R. W. Phillips. 2,648,123, Aug. 11.
Coupling means, Ultra high-frequency. E. P. Thias. 2,648,814, Aug. 11.
Cover: *See*—
Baby couch cover.
Cover for universal joints, Flexible. G. B. Stillwagon, Jr. 2,648,208, Aug. 11.
Crate for beverage bottles and the like. B. L. Baxter. 2,648,456, Aug. 11.
Cuff fastening with separable fastener. H. D. Baskind. 2,648,110, Aug. 11.
Cutout inspection device. G. M. Schiedel. 2,648,817, Aug. 11.
Cutting duct sections. C. F. Engel. 2,648,381, Aug. 11.
Cutting web into strips. J. E. Socke. 2,648,380, Aug. 11.
Cyclic process for treating aluminous ores. A. M. Kennedy. 2,648,595, Aug. 11.
Decreasing egg white whipping time. W. E. Lloyd. 2,648,606, Aug. 11.
Dental floss holder. S. Moll. 2,648,341, Aug. 11.
Desensitized liquid explosives. R. F. Preckel. 2,648,698, Aug. 11.
Detection and measurement of radiation. G. Herzog and R. P. Mazzagatti. 2,648,781, Aug. 11.
Determination of ethylene in gases. F. Stitt, Y. Tomimatsu, and A. H. Tjensvold. 2,648,598, Aug. 11.
Device for making shoe lasts by profile milling. H. Werklund. 2,648,357, Aug. 11.
Device for measuring resistance changes. G. V. A. Gustafsson. 2,648,819, Aug. 11.
Device for winding wire about terminals. E. J. Beaulieu, L. E. Haagensen, and O. Scharer. 2,648,356, Aug. 11.
Diameter compensation in radiation well logging, Automatic. D. Silverman, G. R. Newton, and J. E. Skinner. 2,648,778, Aug. 11.
Diazo amino compounds and water-insoluble azo dyestuffs on fibers, Preparation of. R. L. Lantz. 2,648,660, Aug. 11.
Discharging apparatus. A. M. Perrin. 2,648,425, Aug. 11.
Dishwashing machine. J. G. Ruspino. 2,648,588, Aug. 11.
Disk harrow. J. E. Cruse. 2,648,184, Aug. 11.
Disk plow wheeled frame. W. H. Silver and J. I. Cantral. 2,648,270, Aug. 11.
Dispenser: *See*—
Beverage dispenser.
Dispenser. W. C. Smith. 2,648,429, Aug. 11.
Dispenser bracket. M. J. Manetti and D. James. 2,648,516, Aug. 11.
Display sign. J. Teltelbaum. 2,648,537, Aug. 11.
Display stand. F. L. Lowmaster. 2,648,442, Aug. 11.
Doll, Animated. H. P. Stewart. 2,648,161, Aug. 11.
Door apparatus, Vertically sliding. C. J. Lane. 2,648,587, Aug. 11.
Door construction for washing machines, Sliding. H. P. Petersen. 2,648,458, Aug. 11.
Drape and fixture for hanging the same. M. C. Bishop. 2,648,379, Aug. 11.
Drawer construction. C. W. Straubel. 2,648,585, Aug. 11.
Drier: *See*—
Clothes drier.
Drill bit for double-flute augers, Core-breaking. O. Phipps. 2,648,525, Aug. 11.
Drill steel guide. C. F. Osgood. 2,648,523, Aug. 11.
Drinking fountain valve. W. L. Adkins. 2,648,306, Aug. 11.
Drip deflector. W. M. Bates, Jr. 2,648,107, Aug. 11.
Drip meter. R. K. Cutter. 2,648,333, Aug. 11.
Drive control mechanism. E. R. Maurer. 2,648,414, Aug. 11.
Dry powder conditioning and dispensing means. J. W. Baur and O. G. Plos. 2,648,466, Aug. 11.
Duct structure for gas-turbine engines. L. Haworth. 2,648,353, Aug. 11.
Dustproof hydraulic coupling. R. M. Ulrich. 2,648,553, Aug. 11.
Dyestuffs of the phthalocyanine series, Production of. F. Muehlbauer. 2,648,672, Aug. 11.
Dynamoelectric machine. A. R. Wylie. 2,648,792, Aug. 11.
Easy packing deep container. S. P. Beisinger. 2,648,480, Aug. 11.
Edible mushroom mycelium, Production of. J. Szuecs. 2,648,163, Aug. 11.
Egg candling and grading apparatus. V. Wilson. 2,648,430, Aug. 11.
Elastic sleeve. O. Schmuziger. 2,648,247, Aug. 11.
Electric arc stud welding. C. A. Sayer. 2,648,748, Aug. 11.
Electric control system. W. C. White. 2,648,810, Aug. 11.
Electric machine, Liquid-cooled rotary. F. Geyer. 2,648,789, Aug. 11.
Electrical contact. H. C. Graves, Jr. 2,648,747, Aug. 11.
Electrical control system for engine driven generator sets. L. D. Clark. 2,648,783, Aug. 11.
Electrical precipitator. S. R. Allan. 2,648,394, Aug. 11.
Electrical system for altering phase displacement of sequential-type color signals. W. E. Bradley. 2,648,722, Aug. 11.
Electrocoating strip. J. S. Buser. 2,648,625, Aug. 11.
Electroconductive article. W. O. Lytle. 2,648,754, Aug. 11.
Electrolytic coating. J. S. Buser. 2,648,626, Aug. 11.
Electrolytic membrane. S. D. Ross, M. Markarian, and W. W. Schroeder, Jr. 2,648,717, Aug. 11.
Electrolytic preparation of periodate oxypolysaccharides. W. Dvonch and C. L. Mehltretter. 2,648,620, Aug. 11.
Electromagnets, Manufacturing. G. Duyck. 2,648,124, Aug. 11.
Electron discharge device such as television transmission tube. A. F. Henson. 2,648,794, Aug. 11.
Electronic impulse generator. C. F. Rench. 2,648,835, Aug. 11.
Electronic sequence control, particularly for travel head seam welders. J. J. Illey and W. S. Dustman. 2,648,749, Aug. 11.
Electroplating of nickel. H. Brown. 2,648,628, Aug. 11.
Emulsion polymerization of unsaturated organic compounds. E. J. Vandenberg. 2,648,657-8, Aug. 11.
Engine: *See*—
Internal-combustion engine.
Rotary valve controlled multicylinder internal-combustion engine.
Engine and pneumatic transmission drive, Internal-combustion. J. E. Johansson. 2,648,189, Aug. 11.
Engine corrosion preventive. W. H. Adams and W. D. Ervine. 2,648,643, Aug. 11.
Engine rocker arm. J. M. Leake. 2,648,235, Aug. 11.
Esters of cyclic acetals, Production of. J. D. Brandner. 2,648,680, Aug. 11.
Esters of 4-chloro-o-toloxyacetic acid. L. E. Begin. 2,648,701, Aug. 11.
Esters of 1-azabicycloalkanols. L. H. Sternbach. 2,648,667, Aug. 11.
Ethereal esters from aliphatic aldehyde esters and aliphatic alcohols, Making. J. K. Mertzweiller. 2,648,692, Aug. 11.
Evaporative air cooler. W. Norton. 2,648,272, Aug. 11.
Exercising apparatus. Weight raising. W. Hunter. 2,648,540, Aug. 11.
Exercising device. O. T. Clark. 2,648,330, Aug. 11.
Exercising device. G. C. Johnson. 2,648,332, Aug. 11.
Exhaust passage and trap means coextensive with arc runners. P. L. Taylor. 2,648,743, Aug. 11.
Explosive pressing of powdered compositions. P. M. McKenna, J. C. Redmond, and E. N. Smith. 2,648,125, Aug. 11.
Exposed seat universal joint. W. A. Flumerfelt. 2,648,558, Aug. 11.
Extractor: *See*—
Air extractor.
Face run-out gauge. H. H. Gates. 2,648,135, Aug. 11.
Fastener: *See*—
Measuring tape fastener.
Fastener and connection for rails used for beds or divans, Hooked. D. A. Jonas. 2,648,074, Aug. 11.
Fastener assembly. W. I. Jones. 2,648,091, Aug. 11.
Fastener construction, Slide. S. Rissman. 2,648,113, Aug. 11.
Fastening device. W. A. Bedford, Jr. 2,648,410, Aug. 11.
Fastening device, Rail. G. S. Vickroy. 2,648,500, Aug. 11.
Feed for sawmills, Hydraulically controlled. M. M. Barksdale. 2,648,359, Aug. 11.
Feed mechanism. E. Martin. 2,648,446, Aug. 11.
Feeder: *See*—
Fly ash feeder.
Fence attachment for hospital beds and the like, Foldable. R. C. Chaffin and E. O. Pratt. 2,648,075, Aug. 11.
Fertilizer distributor. W. J. Weeks. 2,648,464, Aug. 11.
Fiber disintegrator and separator. M. P. Chaplin. 2,648,261, Aug. 11.
Fibrous material extrusion apparatus. E. L. Croston and H. R. Harbord. 2,648,262, Aug. 11.

Fifth wheel member, Resiliently mounted. F. H. Kuyler. 2,648,544, Aug. 11.
File compressor. J. W. Kent. 2,648,337, Aug. 11.
File position indicating device. C. F. Zukoski. 2,648,336, Aug. 11.
Filing machine. L. J. Tansey and J. B. Hoy. 2,648,121, Aug. 11.
Filling apparatus. B. S. Harrington. 2,648,477, Aug. 11.
Filling containers. R. Kennedy, Jr., 2,648,476, Aug. 11.
Filter. P. G. Cox. 2,648,438, Aug. 11.
Filter bottom. D. Miller, Jr. 2,648,439, Aug. 11.
Filter medium and making the same. N. D. Hanson. 2,648,617, Aug. 11.
Fishing reel. J. B. Kirby. Aug. 11
Flame-proofing cellulosic wallboard and article produced thereby. H. C. O'Brien, Jr. 2,648,615, Aug. 11.
Floating roof. F. D. Moyer. 2,648,457, Aug. 11.
Flotation apparatus. A. Zarn. 2,648,432, Aug. 11.
Flower box. W. R. Bruch. 2,648,164, Aug. 11.
Fluid pressure controlled signal switch. W. P. Billings. 2,648,733, Aug. 11.
Fluid pump. W. J. Marks. 2,648,288, Aug. 11.
Fly ash feeder. T. Thorsten. 2,648,372, Aug. 11.
Foldable lounge chair. F. M. Hill. 2,648,373, Aug. 11.
Folding machine. A. Eppler, Jr. 2,648,678, Aug. 11.
Forming airplane canopies. R. W. Dunmire. 2,648,099, Aug. 11.
4-(acylsulfamyl) derivatives of anilic acids, preparation of. E. J. Vonng. 2,648,690, Aug. 11.
4,4,6-trimethyl-2-(1-hydroxyethyl)-5,6-dihydro-1,3 4H-oxazine. W. P. Ratchford. 2,648,664, Aug. 11.
4-hydroxycoumarin derivatives. F. Litvan and W. Stoll. 2,648,683. Aug. 11.
4-quinazolone-3-acetoncetic acids, the esters thereof and salts of said acids and said esters. B. R. Baker and M. V. Querry. 2,648,665, Aug. 11.
Frame: *See*—
Bed frame. Disk plow wheeled frame.
Frequency divider. W. D. Houghton. 2,648,707, Aug. 11.
Friction letoff for picker calenders. N. B. Henry. 2,648,100, Aug. 11.
Froth flotation apparatus. P. L. Wigton. 2,648,529, Aug. 11.
Fuel control system. Variable oil-gas. P. M. Dunn. 2,648,499, Aug. 11.
Fuel controller, Jet engine. C. H. Jorgensen, W. T. Nickel, H. H. Dietrich, and D. P. Worden. 2,648,194, Aug. 11.
Furnace: *See*—
Gas fired air-heating furnace. Induction furnace.
Furnace for molten metal. A. W. Lillienberg. 2,648,715, Aug. 11.
Furnace wall construction, Boiler. W. J. Kunz. 2,648,315, Aug. 11.
Fuse cutout. J. M. Wallace and A. W. Edwards. 2,648,737, Aug. 11.
Fuse holder. C. W. Heath. 2,648,740, Aug. 11.
Fuse, Indicating. H. H. Fahnoe. 2,648,738, Aug. 11.
Fused salt electrolysis cell. J. V. Carlisle. 2,648,631, Aug. 11.
Game device, Word. F. C. Meeder. 2,648,143, Aug. 11.
Garbage receptacle. J. R. Burst. 2,648,495, Aug. 11.
Garbage vehicle. G. T. Gibson and W. H. W. Ramsay. 2,648,452, Aug. 11.
Garment for women, Foundation. M. L. Schwoerer. 2,648,068, Aug. 11.
Garment hanger. W. F. Helwig. 2,648,471, Aug. 11.
Gas fired air heater. E. Kent. 2,648,323, Aug. 11.
Gas fired air-heating furnace. E. Kent. 2,648,324, Aug. 11.
Gas pressure measuring. M. J. Cohen. 2,648,818, Aug. 11
Gas turbine auxiliary power plant. H. J. Wood. 2,648,491, Aug. 11.
Gas turbines incorporating compressor. E. A. Stalker. 2,648,492, Aug. 11.
Gate: *See*—
Vehicle actuated gate.
Gauge: *See*—
Clearance angle gauge. Micrometer gauge.
Face run-out gauge.
Gauge wheel attachment for tool carriers. A. B. Youngs. 2,648,271, Aug. 11.
Gear: *See*—
Variable power steering gear.
Gear for the driven axles of vehicles, Driving. R. H. Wilson. 2,648,236, Aug. 11.
Generator: *See*—
Audio sweep frequency generator. Harmonic generator.
Electronic impulse generator.
Governor having hydraulically assisted speed setting control, Centrifugal type. C. R. Maxwell and K. J. Fleck. 2,648,533, Feb. 11.
Grab. W. J. Olson. 2,648,562, Aug. 11.
Grass and weed trimmers, Rotary. G. J. Ries. 2,648,187, Aug. 11.
Grease compositions. W. H. Peterson and T. Skei. 2,648,633, Aug. 11.
Grid construction. L. C. Werner. 2,648,797, Aug. 11
Grinding machine. H. A. Sliven. 2,648,172, Aug. 11.
Grinding machine, Multiple wheel. O. E. Hill. 2,648,171, Aug. 11.
Gripping device with pivoted actuator and having pawl and rack locking means. L. M. Walter. 2,648,242, Aug. 11.
Guanazole, Preparation of. J. J. Roemer and D. W. Kaiser. 2,648,671, Aug. 11.
Guanazoles, Preparation of. D. W. Kaiser and J. J. Roemer. 2,648,670, Aug. 11.
Guard construction for machine tools. A. Bechler 2,648,239, Aug. 11.
Guide for two-piece platform wrapper strips. R. E. Pearsall. 2,648,302, Aug. 11.
Gun, Repeating cap. T. M. McGregor. 2,648,154, Aug. 11.
Hairbrush construction, Cylindrical. R. T. Teetsel. 2,648,082, Aug. 11.
Hair curlers, combs, and irons, Thermostatic controlled. S. Harper. 2,648,757, Aug. 11.
Hanger: *See*—
Clothes hanger. Garment hanger.
Harmonic generator. H. Tornheim. 2,648,812, Aug. 11.
Heat control in vertical furnace by flue gas recirculation. J. W. Throckmorton and J. S. Wallis. 2,648,599, Aug. 11.
Heat exchanger. O. A. Carnahan. 2,648,527, Aug. 11.
Heat power reactor. J. Featonby. 2,648,191, Aug. 11.
Heater: *See*—
Gas fired air heater.
Heating apparatus. W. M. Hall and F. A. Gross. 2,648,760, Aug. 11.
Heating apparatus for processing fine-granular material. F. Müller and L. H. Winners. 2,648,532, Aug. 11.
Heavy duty fiber container. J. R. Belsinger. 2,648,484, Aug. 11.
Heavy duty fiber container. S. P. Belsinger. 2,648,481-3, Aug. 11.
Helicopter transmission mechanism. G. W. Tidd. 2,648,386, Aug. 11.
Hermetically sealed pressure switch. G. A. Starbird. 2,648,732, Aug. 11.
Hide glue, making. A. Spence, M. S. Lev, and W. A. Reddie. 2,648,659, Aug. 11.
High acrylonitrile polymer solutions. G. W. Stanton, T. B. Lefferdink, and C. W. Davis. 2,648,648, Aug. 11.
High precision glass stopcocks, production of. M. Manes, J. E. Hofer, and R. D. Hinkel. 2,648,179, Aug. 11.
Higher fatty acid synthesis from oxo bottoms. R. B. Mason. 2,648,694, Aug. 11.
Hinge and lock, Combination gate. R. Esslinger. 2,648,092, Aug. 11.
Hinge, Cardboard box spring. L. Young. 2,648,485, Aug. 11.
Hinge, Multiple, leaf concealed. R. J. Wilson. 2,648,093, Aug. 11.
Hinge structure for goggles. A. F. Parmelee. 2,648,067, Aug. 11.
Hoist. C. M. Sales. 2,648,521, Aug. 11.
Holder: *See*—
Bag holder. Magnetic lid holder.
Carton holder. Magnetic nail holder.
Dental floss holder. Nursing bottle holder.
Fuse holder. Spool holder.
Key holder. Thread spool and needle holder.
Key ring holder.
License tag holder.
Holder for supply pans, Tiltable. C. F. Barothy. 2,648,465, Aug. 11.
Hollow monolithic concrete slabs, making. G. A. Macready. 2,648,116, Aug. 11.
Hood for electric furnace. A. O. Williams and W. G. McBurney. 2,648,714, Aug. 11.
Housing and flexible flashlight support, Combined. M. S. Dunkelberger. 2,648,762, Aug. 11.
Housing for electrical devices and the like. C. A. Woodward. 2,648,549, Aug. 11.
Humidity regulating apparatus. C. J. Otterholm. 2,648,202, Aug. 11.
Hypodermic injection assembly. F. E. Brown and F. M. Turnbull. 2,648,334, Aug. 11.
Ice sway control. A. Leslie. 2,648,402, Aug. 11.
Ignition apparatus. W. G. Roloson and W. J. Spengler. 2,648,701, Aug. 11.
Ignition tester. M. Schuch. 2,648,816, Aug. 11.
Illuminated house number. F. L. Simpson. 2,648,152, Aug. 11.
Illuminated indicating control. T. C. Appleman. 2,648,305, Aug. 11.
Improvements in wire-stapling machine. W. J. Cuthbert. 2,648,064, Aug. 11.
Incineration system. S. Robinson. 2,648,348, Aug. 11.
Incubator equipment, Infant. S. Y. Gibbon. 2,648,327, Aug. 11.
Index drive mechanism, Rotary card. H. C. Behrens. 2,648,586, Aug. 11.
Indexing laundry listing machine, Type wheel. W. J. Kemper. 2,648,279, Aug. 11.
Indicating and recording systems. R. C. Raymond. 2,648,838, Aug. 11.
Indicator: *See*—
Selective plural digit indicator. Visual electron flow indicator.
Induced and scattered gamma ray borehole logging, Combination. G. Herzog. 2,648,780, Aug. 11.





Induction furnace. R. L. Lindner and T. K. Hayes. 2,648,716, Aug. 11.
Induction machine, Mechanically controllable. F. Bauer. 2,648,807, Aug. 11.
Inertial air cleaner. A. S. Chipley. 2,648,398, Aug. 11.
Inflatable standby seal for stationary, revolving, sliding, and rocking tubes and the like and shafts and the like. W. J. Gilbert, Sr. 2,648,554, Aug. 11.
Initiation of propellant decomposition. H. Malsner. 2,648,190, Aug. 11.
Inspection system. A. N. Goldsmith. 2,648,723, Aug. 11.
Instrument, Fiber length distribution measuring. L. M. Puster. 2,648,251, Aug. 11.
Integral electrode with lead wire anchor for piezoelectric crystal. M. C. Tournier. 2,648,785, Aug. 11.
Interferometer apparatus with measuring grid. T. W. Zobel. 2,648,250, Aug. 11.
Internal-combustion engine. S. B. Eckert. 2,648,228, Aug. 11.
Internal lathe burner. F. A. Fisher and W. H. Kobl. 2,648,166, Aug. 11.
Intramolecular esters of hydroxy or amino phosphinic acids. C. W. Smith. 2,648,695, Aug. 11.
Iron: *See*—
Steam iron.
Ironing machine. H. A. Sperlich. 2,648,147, Aug. 11.
Jet exhaust augmenter, Variable capacity. J. G. Lee. 2,648,192, Aug. 11.
Joining press. W. E. Jones and G. A. Nielaen. 2,648,361, Aug. 11.
Joint: *See*—
Exposed seat universal joint. Universal joint.
Key holder. A. N. Hanna. 2,648,215, Aug. 11.
Key ring holder. A. N. Hanna. 2,648,216, Aug. 11.
Kite. F. P. Bell. 2,648,508, Aug. 11.
Knockdown streamlined container. G. A. Dean. 2,648,454, Aug. 11.
Lacquer composition containing a hydrocarbon derived resin. H. S. Bloch. 2,648,640, Aug. 11.
Laryngoscope. E. T. Mörch. 2,648,329, Aug. 11.
Latch: *See*—
Locking latch. Push-button latch.
Lever means for breech closing mechanisms, Operating. A. A. Dicke. 2,648,153, Aug. 11.
License tag holder. M. Sullivan. 2,648,150, Aug. 11.
Ligature for musical instruments. W. W. Mueller. 2,648,246, Aug. 11.
Light fixture having heat insulated corner for terminals, Recessed. I. M. Kirlin. 2,648,764, Aug. 11.
Light securing means, Street barricade. J. W. Shamel. 2,648,761, Aug. 11.
Lighter, Flare stark. L. W. Schrader. 2,648,376, Aug. 11.
Lighter with luminous indicator, Cigar. A. J. Kroll and A. W. Schnick. 2,648,758, Aug. 11.
Line controlling device for use with fishing reels. P. Mauborgne. 2,648,505, Aug. 11.
Link-plate seal for catapult slotted cylinders. W. S. Baer, Sr. 2,648,310, Aug. 11.
Liquid treating apparatus, Variable detention. W. J. Hughes. 2,648,032, Aug. 11.
Loading apparatus, Hydraulically operated. D. S. Hoover. 2,648,449, Aug. 11.
Loading device for bottles and the like containers, Automatic. R. Détrez. 2,648,419, Aug. 11.
Loading device, Truck. G. W. Owen. 2,648,451, Aug. 11.
Lock. A. Schoepe and J. W. Sinclair. 2,648,559, Aug. 11.
Lock joint cradle invert underdrain pipe. D. B. Dimick. 2,648,200, Aug. 11.
Lock release operated switch. M. J. Noregaard. 2,648,729, Aug. 11.
Lock nut. R. E. Curran. 2,648,367, Aug. 11.
Locking latch. H. Quigley and H. Young. 2,648,560, Aug. 11.
Logarithmic exposure meter. A. G. Stimson, K. Brynes, F. B. Jennings, and C. F. Taylor. 2,648,254, Aug. 11.
Loom: *See*—
Copless shuttle loom.
Low-temperature emulsion polymerization of unsaturated organic compounds. E. J. Vandenberg. 2,648,655-6, Aug. 11.
Lubricating grease compositions, Preparing. R. J. Moore. 2,648,634, Aug. 11.
Lubricating system, Internal-combustion engine. J. C. Sionneger. 2,648,400, Aug. 11.
Lubricator applicator for car wheels. D. A. Kelly. 2,648,390, Aug. 11.
Machine for clearing undergrowth from land. F. A. Lower. 2,648,358, Aug. 11.
Machine for manufacturing switches. W. B. Ellwood. 2,648,167, Aug. 11.
Machine for producing ice cubes and crushed ice. H. V. Heuser and W. H. Fitzner. 2,648,203, Aug. 11.
Machine for unloading continuous baking ovens. A. A. Holbeck. 2,648,298, Aug. 11.
Magnetic lid holder. A. E. Nelson. 2,648,127, Aug. 11.
Magnetic nail holder. R. P. Ingraham. 2,648,066, Aug. 11.
Magnetic testing, Method and apparatus for. R. D. Kodis. 2,648,435, Aug. 11.
Magnetron, Double parallel plane. P. I. Corbell. 2,648,800, Aug. 11.
Manufacture of candy, Method and apparatus for the. W. S. Cloud. 2,648,297, Aug. 11.
Material for shoe stiffeners. E. H. G. Gauthier. 2,648,616, Aug. 11.
Means removing cards from address plates. W. T. Gollwitzer. 2,648,276, Aug. 11.
Measuring device, Liquid depth and tank diameter. B. J. Kosmoski and G. A. Meyer. 2,648,133, Aug. 11.
Measuring tape fastener. E. H. Holtz and C. R. Sellen. 2,648,114, Aug. 11.
Measuring tension in bolts, Means for. W. E. and J. T. Wilson. 2,648,833, Aug. 11.
Medium oil alkyd resin surface coating materials and preparing the same. F. R. Spencer. 2,648,642, Aug. 11.
Merchandise supporting means for store-employed display, Tiltable. M. K. Teach. 2,648,583, Aug. 11.
Mercury cathode electrolysis apparatus. A. Basilewsky. 2,648,630, Aug. 11.
Metallizing gun. J. B. Brennan. 2,648,567, Aug. 11.
Meter: *See*—
Drip meter.
Logarithmic exposure meter.
Meter and color analyzer, Color temperature. M. H. Sweet. 2,648,253, Aug. 11.
Meter type relay having levers for resetting its contact arm. E. B. Marshall. 2,648,735, Aug. 11.
Metering device, Liquid. A. V. Hemmens. 2,648,225, Aug. 11.
Method and machine for producing a continuous honeycomb structure. G. I. Goodwin and H. H. Klee. 2,648,371, Aug. 11.
Methyl chlorpropyl formamide. M. Sletzinger and M. Tishler. 2,648,709, Aug. 11.
Micrometer gauge. H. R. Billeter. 2,648,134, Aug. 11.
Microphone. C. F. Teichmann. 2,648,828, Aug. 11.
Mill: *See*—
Pellet mill.
Mirror mounting structure of the universal type, Rearvision. F. Budreck. 2,648,356, Aug. 11.
Mirror structure, Rearview. F. Budreck. 2,648,256, Aug. 11.
Mixed acid anhydrides and production of same. R. R. Whetstone. 2,648,690, Aug. 11.
Modulation system for cathode-ray oscilloscopes. L. R. Philpott. 2,648,798, Aug. 11.
Molding machine and variable delivery hydraulic pump therefor, Injection. K. H. Balgent. 2,648,096, Aug. 11.
Molding machine, Block. M. D. Maramonte. 2,648,115, Aug. 11.
Momentary action actuator. J. B. Lester. 2,648,234, Aug. 11.
Momentary switch. D. M. Bollhoefer. 2,648,728, Aug. 11.
Mop with wringer means. S. P. Vidal. 2,648,086, Aug. 11.
Motion converter for screw thread comparator. B. W. Swanson. 2,648,137, Aug. 11.
Motion transmitting connection. G. F. Karow. 2,648,581, Aug. 11.
Motor control for centrifuges. C. F. Dinley. 2,648,806, Aug. 11.
Motor-driven unit, Electric. P. V. Harmon. 2,648,790, Aug. 11.
Motor suspension for oil burners and the like. R. W. Beckett. 2,648,284, Aug. 11.
Motor with encased rotor, Electric. L. Kritter. 2,648,786, Aug. 11.
Mounting: *See*—
Plano string-plate mounting. Resilient mounting.
Mounting for vehicles, Spring. S. F. Udstad. 2,648,536, Aug. 11.
Mounting of ball bearing. T. Watt. 2,648,577, Aug. 11.
Multiband tuner. V. P. Friberg. 2,648,824, Aug. 11.
N-β-nitraminoethyl-N'-aryl-N''-nitroguanidines. A. F. McKay. 2,648,707, Aug. 11.
N-thio pyrrolidines. T. E. Lesslie. 2,648,673, Aug. 11.
Noise detection circuit. W. R. Young, Jr. 2,648,765, Aug. 11.
Nurse's bag. E. H. Higbee and L. G. Girton. 2,648,366, Aug. 11.
Nursing bottle holder. E. E. Groff. 2,648,513, Aug. 11.
Nut and holder. E. L. Cederquist. 2,648,248, Aug. 11.
Nut and lock washer, Coupled. J. B. O'Connor. 2,648,368, Aug. 11.
Object for display. G. C. Kindred. 2,648,151, Aug. 11.
Ohmmeter, Direct-reading low range. J. H. Miller. 2,648,820, Aug. 11.
Oil well orienting apparatus. A. B. Hildebrandt. 2,648,141, Aug. 11.
1-keto-8RO-1,2,3,4,4a,5,6,10b,11,12,12a dodecahydrochrysenes. W. S. Johnson and D. K. Banerjee. 2,648,679, Aug. 11.
Open wire transmission line. D. C. Alexander. 2,648,720, Aug. 11.
Opener, Can. W. T. Tanking, Jr. 2,648,128, Aug. 11.
Operation of combustion motors by hydrazine. L. Mikuláček and M. Strnad. 2,648,317, Aug. 11.
Optical system for image intensifiers. W. W. Eitel, Jr. 2,648,776, Aug. 11.
Organic carbonate, Making. C. A. Helberger. 2,648,697, Aug. 11.

Organo tin compounds and compositions containing same. E. L. Weinberg and E. W. Johnson. 2,648,650, Aug. 11.
Oscillator, Polyphase. R. L. Wallace, Jr. 2,648,773, Aug. 11.
Oven, Wire enameling. L. J. Shorek and W. L. Best. 2,648,531, Aug. 11.
P' (benzoylsulfamyl) phthalanilic acid. Preparation of. F. B. Zienty. 2,648,689, Aug. 11.
Packing retainer for journal boxes. J. D. Herr. 2,648,574, Aug. 11.
Pallet, Collapsible walled. D. H. Bitney. 2,648,455, Aug. 11.
Pearlescent plastic articles, Producing. E. M. McElligott. 2,648,098, Aug. 11.
Pellet mill. S. A. Oliver. 2,648,296, Aug. 11.
Pen, Fountain. F. E. Bartell. 2,648,309, Aug. 11.
Perforating apparatus, Floatingly mounted. J. L. De Boo. 2,648,385, Aug. 11.
Phase shifter. H. Sohon and H. F. Baker. 2,648,811, Aug. 11.
Photographic developer containing a pyridinium salt and process of development. L. G. Wellver and C. E. Johnson. 2,648,604, Aug. 11.
Photometer, Frequency modulated. A. H. Canada. 2,648,249, Aug. 11.
Piano string-plate mounting. H. F. Russell. 2,648,245, Aug. 11.
Pipe: *See*—
Lock joint cradle invert underdrain pipe.
Pipe coupling. R. E. Risley and G. D. Kish. 2,648,551, Aug. 11.
Pipe coupling device for pneumatic systems. S. W. Alderson. 2,648,199, Aug. 11.
Piston assembly for shock absorbers. D. A. Palmer. 2,648,405, Aug. 11.
Piston ring. H. P. Phillips. 2,648,582, Aug. 11.
Piston ring fitting device. H. T. Lanigan. 2,648,136, Aug. 11.
Planter. C. H. White and W. P. Oehler. 2,648,301, Aug. 11.
Playground apparatus, Convertible. H. R. Robbins. 2,648,538, Aug. 11.
Playground climber. G. W. Packer. 2,648,539, Aug. 11.
Plow, Two-way disk. H. A. Pursche. 2,648,267, Aug. 11.
Plug: *See*—
Spark plug.
Polyalkylene glycol esters of alkyltetrahydrophenylalkanoic acids. L. Schmerling. 2,648,693, Aug. 11.
Polymerizing acrylonitrile in aqueous mixed salts. G. W. Stanton, T. B. Lefferdink, and C. W. Davis. 2,648,647, Aug. 11
Polyvinyl chlorides, Plasticized. O. von Schickh and W. Froese. 2,648,652, Aug. 11.
Popcorn kernels and popping oil, Packaged. J. T. Martin. 2,648,610, Aug. 11.
Pouring attachment for containers. F. Massari. 2,648,462, Aug. 11.
Power transmitting mechanism. L. E. Lura. 2,648,229, Aug. 11.
Power winding of strip material. L. A. Trofimov. 2,648,502, Aug. 11.
Press: *See*—
Joining press.
Pressure operated temperature responsive switch. G. A. Starbird. 2,648,741, Aug. 11.
Prewetting in imbibition printing. W. E. Pohl. 2,648,280, Aug. 11.
Producing electrical and mechanical energy from thermal energy. Method and apparatus for. C. Chilowsky. 2,648,784, Aug. 11.
Producing viscose, Method and apparatus for. C. D. Vandenburgh and M. P. Kulp. 2,648,661, Aug. 11.
Progressive forming of C-stage plastic material, Method and apparatus for. W. I. Beach. 2,648,370, Aug. 11.
Projectile-accelerating mechanism for firearms. E. N. Stanley. 2,648,257, Aug. 11.
Propeller, Aircraft. J. F. Haines and C. B. Wright. 2,648,388, Aug. 11.
Propeller, Articulated blade. M. E. Cushman and P. J. Klefer, Jr. 2,648,391, Aug. 11.
Propeller, Variable pitch screw. E. de Lagabbe. 2,648,390, Aug. 11.
Protection of materials and equipment sensitive to the action of water, moisture and mold growth, Methods of and means for the. L. A. M. Casati, J. L. Gonnard, and J. E. G. Lahousse. 2,648,651, Aug. 11.
Protection of rubber surfaces. S. D. Shinkle. 2,648,613, Aug. 11.
Protector for electric circuits. J. C. Lebens, Jr. 2,648,739, Aug. 11.
Puller: *See*—
Broken axle puller.
Tube puller.
Pulse width discriminator. E. Eberhard. 2,648,766, Aug. 11.
Pump: *See*—
Fluid pump.
Rotary pump.
Selector pump.
Submersible pump.
Pump. T. R. Thoren, L. L. Aspelin, and J. F. Murray. 2,648,287, Aug. 11.
Pump leak-off system, Feed. S. P. Johnson. 2,648,285, Aug. 11.
Purifying insulin by seeding with unclumped fibrils of insulin. D. F. Waugh. 2,648,622, Aug. 11.
Push-button latch. R. W. Landon. 2,648,561, Aug. 11.
Quartz fiber dosimeter. O. G. Landsverk. 2,648,777, Aug. 11.
Quaternary ammonium salts derived from heterocyclylalkyl esters of tropic acid. R. A. Robinson. 2,648,666, Aug. 11.
Quaternary ammonium salts of diisopropylaminoalkyl esters of diphenylacetic acid. R. A. Hoblnson. 2,648,699, Aug. 11.
Quiet snap switch. V. R. Despard. 2,648,731, Aug. 11.
Radiation detector. W. H. Kohl. 2,648,779, Aug. 11.
Railway car axle bearing. O. J. Horger. 2,648,576, Aug. 11.
Rake teeth, Making. L. G. Kopp. 2,648,362, Aug. 11.
Razor. H. B. Streeter. 2,648,129, Aug. 11.
Razor blade plane, Safety. A. Weber. 2,648,363, Aug. 11.
Reaction product of sodium dicyanamide and hydroxylamine hydrochloride. J. J. Roemer and D. W. Kaiser. 2,648,669, Aug. 11.
Reaction products of organic sulfoxides and hydrozoic acid. L. Reiner and F. Flordalisi. 2,648,705, Aug. 11.
Reactive speed-torque control of induction motors. R. V. Tiede. 2,648,808, Aug. 11.
Reaming machine, Universal. U. Fatconi. 2,648,237, Aug. 11.
Receptacle: *See*—
Garbage receptacle.
Record changer apparatus. F. B. Burt. 2,648,541, Aug. 11.
Recorder, Electrically operated. K. A. Cool, J. M. Hush, W. Ernst, and D. E. Bench. 2,648,591, Aug. 11.
Recorder, Magnetic. M. Camras. 2,648,590, Aug. 11.
Recorder, Magnetic. C. N. Hickman. 2,648,589, Aug. 11.
Recorder, Prosthetic transfer. S. K. Avery. 2,648,130, Aug. 11.
Recording system, Electric blood pressure. C. M. Hathaway, W. D. Tilton, Jr., and P. W. Schafer. 2,648,328, Aug. 11.
Recovering lost circulation in wells. A. L. Armentrout. 2,648,522, Aug. 11.
Recovering nicotinic acid from solutions thereof in sulfuric acid. A. J. Martin. 2,648,668, Aug. 11.
Recovery of alcohols from direct hydration of olefins. E. W. Carrier. 2,648,711, Aug. 11.
Recovery of platinum. H. Holzmann. 2,648,393, Aug. 11.
Recovery of precious metal values. R. E. Byler and R. C. Dunn. 2,648,601, Aug. 11.
Rectification of mixed gases. J. A. Hufnagel. 2,648,205, Aug. 11.
Reducing steroid ketones to their corresponding methylene analogs. H. Minlon. 2,648,686, Aug. 11.
Reel: *See*—
Fishing reel.
Thread reel.
Refractor and luminaire using the same, Light controlling. T. W. Rolph and K. Franck. 2,648,763, Aug. 11.
Refrigeration system, Adsorption. G. A. Grubb. 2,648,204, Aug. 11.
Regulating system. S. L. Bradley. 2,648,813, Aug. 11
Remote control metering valve. R. R. Curtis. 2,648,518, Aug. 11.
Removing salts from polyacrylonitrile. G. W. Stanton and T. B. Lefferdink. 2,648,592–3, Aug. 11.
Replacement guide for poppet valve stems. C. C. Carter. 2,648,322, Aug. 11.
Resilient interchangeable tube coupling. L. B. Courtot. 2,648,550, Aug. 11.
Resilient mounting. R. C. Henshaw. 2,648,510, Aug. 11.
Resinous siloxane and product, Making a. J. E. Dereich. 2,648,654, Aug. 11.
Retainer mechanism for quick disconnect coupling. C. B. Ilvers and A. A. Meddock. 2,648,552, Aug. 11.
Ring: *See*—
Piston ring.
Spring retainer ring.
Rodenticidal composition. Production of a. F. Litvan and W. Stoll. 2,648,681, Aug. 11.
Roller structure for lift truck carriages. J. A. Frischmann. 2,648,401, Aug. 11.
Roof construction. W. Swires. 2,648,132, Aug. 11.
Roof slab, Prefabricated. C. D. Iddings, J. R. Bechtold, and P. E. Borg. 2,648,209, Aug. 11.
Rotary bowl support. J. D. and M. L. S. Rosier. 2,648,514, Aug. 11.
Rotary earth boring bit. G. H. Lanchester. 2,648,526, Aug. 11.
Rotary pump. J. P. Johnson. 2,648,289, Aug. 11.
Rotary valve controlled multicylinder internal-combustion engine. W. Bensinger. 2,648,318, Aug. 11.
Rotor for dynamoelectric machines. F. H. Fleischer. 2,648,788, Aug. 11.
Rotor head. G. S. Doman. 2,648,387, Aug. 11.
Rubber tired gauge wheel. E. W. Todd. 2,648,369, Aug. 11.
Rule, Compass. L. J. Gordon and L. Sheldon. 2,648,131, Aug. 11.
Safety device. R. J. Kutzler. 2,648,734, Aug. 11.
Salt solutions of high acrylonitrile polymers. G. W. Stanton, T. B. Lefferdink, and T. C. Spence. 2,648,646, Aug. 11.
Saw with a concaved leading chisel edge and planar offset side surface on each tooth. F. A. Pall. 2,648,360, Aug. 11.





Scuff board for testing automobile wheel alignment. E. D. Wilkerson. 2,648,140, Aug. 11.
Sealing composition. I. G. Cooper. 2,648,012, Aug. 11.
Securing decorative matter to a surface of a polyethylene body. M. F. Kritchever. 2,648,097, Aug. 11.
Seed carrier. L. R. Nestor. 2,648,165, Aug. 11.
Selective plural digit indicator. J. M. Mellck. 2,648,830, Aug. 11.
Selector pump. B. N. Ashton and E V. Barkow. 2,648,290,
Separation of colloids in a colloid solution, Method and apparatus for. S. G. Ellis and P. C. Stevenson. 2,648,636, Aug. 11.
Separation of isomeric aromatic compounds. A. Schneider. 2,648,712–13, Aug. 11.
Service cable entrance cap. A. J. Wayman. 2,648,721, Aug. 11.
Servo valve bypass. J. R. Clifton. 2,648,313, Aug. 11.
17α-hydroxy steroids, Preparation of. P. L. Julian, E. W. Meyer, and I. Ryden. 2,648,663, Aug. 11.
Shaft bearing. W. S. Anderson. 2,648,575, Aug. 11.
Sharpening and polishing machine. F. Bikles. 2,648,174, Aug. 11.
Shear, Bloom. J. Hahn. 2,648,383, Aug. 11.
Shearing and loading machine, Combined. J. Yarmak. 2,648,530, Aug. 11.
Ship unloading facilities for high-pressure fluids, Offshore. F. G. Maranclk and J. A. Laudenberger. 2,648,201, Aug. 11.
Shipping container. F. J. White and C. W. Scott. 2,648,428, Aug. 11.
Shirt board. K. Youngblood. 2,648,469, Aug. 11.
Shoe, Biaxial. H. C. Stein. 2,648,144, Aug. 11.
Shoe construction and making the same. D. Gnrofalo. 2,648,080, Aug. 11.
Shoes with reinforcing counter and stitched-in sock lining, Making slip-lasted. J. Meltzer. 2,648,081, Aug. 11.
Shovel control. E. R. Windahl. 2,648,231, Aug. 11.
Shower cabinet. C. J. Daugherty and T. F. Anderson. 2,648,409, Aug. 11.
Siding structure. O. Wshlfeld. 2,648,103, Aug. 11.
Sifter, Flour. I. E. Wright. 2,648,436, Aug. 11.
Sign: *See*—
Display sign.
Signaling system, Selective. E. Vroom. 2,648,831, Aug. 11.
Silo construction. G. V. Gladville. 2,648,217, Aug. 11.
Ski, Laminated. E. W. Grabowski. 2,648,543, Aug. 11.
Slack takeup apparatus. E. W. Ertner. 2,648,504, Aug. 11.
Snap switch. R. J. Wellworth. 2,648,730, Aug. 11.
Socket connector formed by alternate bands, Electrical. H. A. Knollman. 2,648,827, Aug. 11.
Sodium superoxide production. W. H. Schechter. 2,648,596, Aug. 11.
Softening agent for rubber, and resultant rubber composition. F. M. McMillan and D. E. Winkler. 2,648,644, Aug. 11.
Sound-making wheeled stick horse. N. Van Voorhis. 2,648,160, Aug. 11.
Sound system, Pulsed. W. D. Mounce. 2,648,837, Aug. 11.
Spark gap for distribution lines, Birdproof. G. H. Manke. 2,648,796, Aug. 11.
Spark plug. H. P. Phillips and R. J. L. Dutterer. 2,648,320, Aug. 11.
Spectacle retaining device. E. E. Pendleton. 2,648,255, Aug. 11.
Sponge rubber and making same, Fabric coated. S. W. Alderfer. 2,648,619, Aug. 11.
Spool holder. D. Y. Novotny. 2,648,501, Aug. 11.
Spray means for dishwashing apparatus, Oscillatable. J. B. Fullerton. 2,648,343, Aug. 11.
Sprayer, Centrifugal paint. B. L. Sommer. 2,648,568, Aug. 11.
Sprayer, Liquid. E. W. Vose. 2,648,569, Aug. 11.
Spring retainer ring. R. G. Stewart, Sr. 2,648,557, Aug. 11.
Sprinkler head. M. A. Valen. 2,648,570, Aug. 11.
Squeegee, Air. A. Mayer. 2,648,089, Aug. 11.
Stabilization of fats and oils. B. W. Beadle and H. R. Kraybill. 2,648,608, Aug. 11.
Stabilization of organic compounds. R. B. Thompson. 2,648,691, Aug. 11.
Stacker mechanism. T. B. Dalton. 2,648,181, Aug. 11.
Stamping machine. R. G. Winn. 2,648,453, Aug. 11.
Stanchion for domestic animals. D. E. Ogden. 2,648,308, Aug. 11.
Stand: *See*—
Display stand.
Stand suitable for hosiery and underwear linking and seaming machines, Supporting. F. R. Savory. 2,648,227, Aug. 11.
Starting device for internal-combustion engines, Compression relieving. J. C. Slonneger. 2,648,321, Aug. 11.
Steam iron. R. J. Scott and N. M. Ruskn. 2,648,148, Aug. 11.
Steel for high-temperature service, High strength. P. Payson and J. G. Y. Chow. 2,648,602, Aug. 11.
Sterilizer. J. B. Pentz. 2,648,108, Aug. 11.
Sterilizer, Fluid. F. W. Whitlock. 2,648,774, Aug. 11.
Sticking together resin-impregnated cellulosic sheets. E. S. Hole. 2,648,620, Aug. 11.
Stitching mechanism for joining cords or the like with a fabric. L. Brumberger. 2,648,304, Aug. 11.
Stocking and making. V. Skole and H. C. Andersen. 2,648,210, Aug. 11.
Straw spreader for combines. F. Wickell and T. Green. 2,648,542, Aug. 11.
Submersible pump. C. J. Bergh. 2,648,286, Aug. 11.
Suction settle and counterblowing process and apparatus. G. E. Rowe. 2,648,168, Aug. 11.
Suitcase, Soft sided. I. J. Meyers. 2,648,411, Aug. 11.
Suitcase with soft sides. I. J. Meyers. 2,648,412, Aug. 11.
Supercharger duct system. B. L. Messinger, H. H. Gray, and R. R. Richolt. 2,648,490, Aug. 11.
Support: *See*—
Collar support.
Rotary bowl support.
Vent pipe support.
Support for steam generator drums. L. J. Marshall. 2,648,316, Aug. 11.
Supporting arms for flatirons, Jointed. E. E. Foster. 2,648,146, Aug. 11.
Surface-treating wheel. G. A. Lyon. 2,648,178, Aug. 11.
Surfacing composition and method. P. and N. R. Jenin. 2,648,603, Aug. 11.
Surgical ligature applicator. W. Stichs. 2,648,065, Aug. 11.
Swab for toilet bowls and the like, Cleaning. D. F. Rodgers. 2,648,085, Aug. 11.
Sweeper, Manually operated magnetic. G. L. Russell. 2,648,434, Aug. 11.
Swinging sash with a weatherproofing latch. E. P. Shuter. 2,648,106, Aug. 11.
Switch: *See*—
Fluid pressure controlled signal switch.
Hermetically sealed pressure switch.
Lock release operated switch.
Momentary switch.
Pressure operated temperature responsive switch.
Quiet snap switch.
Snap switch.
Switching mechanism, Engine-function. J. W. Dickey. 2,648,746, Aug. 11.
Swivel. L. R. Slyter and T. C. Maule. 2,648,579, Aug. 11.
System and apparatus for gaseous tubes. C. R. Kazebee. 2,648,802, Aug. 11.
Take-up block for wire drawing. D. Revak and F. W. Riedel. 2,648,503, Aug. 11.
Tape. G. W. Ewald. 2,648,118, Aug. 11.
Taping machine. P. J. Dewyer. 2,648,382, Aug. 11.
Teller's window. E. C. Beedle. 2,648,300, Aug. 11.
Tellurium oxide-containing catalyst, Preparing a. F. P. Richter. 2,648,638, Aug. 11.
Temperature indicator for nursing bottles. P. R. Finch. 2,648,226, Aug. 11.
Tensioning device for conveyer belts. R. N. Bateman. 2,648,424, Aug. 11.
Test probe, Electrical. A. R. Jubenville. 2,648,826, Aug. 11.
Testing machine for cementing materials, Tensile. L. Franceschini. 2,648,221, Aug. 11.
Testing the winding properties of filaments. M. Fielding and O. S. Mundy. 2,648,223, Aug. 11.
Thermionic tube and plate assembly for such tubes. W. Wihtol. 2,648,793, Aug. 11.
Thermoelectric translation device. W. E. Kock and L. G. Schimpf. 2,648,823, Aug. 11.
Thiobane and its homologs, Preparing. G. B. Hatch. 2,648,675, Aug. 11.
Thread cutting mechanism. F. C. Mostertz. 2,648,355, Aug. 11.
Thread reel. H. Kitzrow. 2,648,507, Aug. 11.
Thread spool and needle holder. J. P. Gallagher and J. L. Kelly. 2,648,472, Aug. 11.
3-ethoxypropyl 3-ethoxypropionate. H. A. Stansbury, Jr. and R. W. McNamee. 2,648,703, Aug. 11.
3-substituted 4-hydroxycoumarins and their production. W. Stoll and F. Litvan. 2,648,682, Aug. 11.
3,20-diketo-17α-hydroxy steroids, Preparation of. P. L. Julian, E. W. Meyer, and I. Ryden. 2,648,662, Aug. 11.
Timber setting machine. C. W. Fitzgerald. 2,648,444, Aug. 11.
Time system. E. G. Johnson. 2,648,832, Aug. 11.
Toaster, Bun. J. C. Thompson. 2,648,275, Aug. 11.
Tool: *See*—
Automotive wheel tool.
Tool actuating mechanism and control unit therefor. W. E. Raney. 2,648,238, Aug. 11.
Tool driver, Spiral. R. Corella. 2,648,364, Aug. 11.
Toothbrush, Motor-driven. C. B. Smithson, Jr. 2,648,787, Aug. 11.
Torque testing device. C. B. Emery. 2,648,219, Aug. 11.
Toy drinking animal with capillary tube. J. F. Moeller. 2,648,162, Aug. 11.
Toy, Magnetic wand actuated. J. C. and H. W. Wilson. 2,648,157, Aug. 11.
Toy siren and chromatic gun. I. Rotfeld. 2,648,159, Aug. 11.
Toy trapeze, Magnetic. J. C. Young. 2,648,158, Aug. 11.
Trailer, Hydraulic lift. J. C. Falkenhagen. 2,648,540, Aug. 11.
Train, Railway. H. D. Euwer and H. G. Anderson. 2,648,292, Aug. 11.

Transfer mechanism. J. H. Friedman. 2,648,077, Aug. 11.
Transformer. N. O. Clark. 2,648,751, Aug. 11.
Transformer for air and the like. L. Craig. 2,648,169, Aug. 11.
Transmission control, Automative. G. T. Randol. 2,648,232, Aug. 11.
Transparent conducting films. W. O. Lytle. 2,648,753, Aug. 11.
Transparent electroconductive article. A. E. Saunders. 2,648,752, Aug. 11.
Traveler for transportation of tree trunks and like loads. E. Pilet. 2,648,443, Aug. 11.
Treating protein hydrolysis liquor. T. Ogawa and M Ohno. 2,648,704, Aug. 11.
Treating raisins, Method and apparatus for. E. Allotti. 2,648,605, Aug. 11.
Trepan, Mining. J. Dionisotti. 2,648,524, Aug. 11.
Tube puller. G. W. Hall. 2,648,563, Aug. 11.
Tube system, Vaporizer. F. H. Keast and F. D. M. Williams. 2,648,197, Aug. 11.
Turbine blade, Air-cooled. H. E. Schmitt. 2,648,520, Aug. 11.
Turbines, Cooling combustion. S. Campini. 2,648,510, Aug. 11.
21-alkyl ethers of cortisone, Preparing. H. Minion and J. C. Babcock. 2,648,688, Aug. 11.
2-methyl-2,7-dihydroxy octahydrophenanthrene-1-propionic acid and derivatives thereof. R. P. Jacobsen and G. Pincus. 2,648,700, Aug. 11.
2,2,3,3-tetrahala-1,4-butanediol-dibenzoates. O. De Garmo and F. H. Zienty. 2,648,702, Aug. 11.
Unit carrier. J. G. Lindeman. 2,648,268, Aug. 11.
Universal joint. A. J. Quinn. 2,648,207, Aug. 11.
Unloader for wicket-type conveyers. W. L. Best and C. H. Lisch, Jr. 2,648,420, Aug. 11.
Urinal construction. L. A. Chambers. 2,648,335, Aug. 11.
Vacuum cleaner. J. B. Kirby. 2,648,396, Aug. 11.
Vacuum cleaner furniture guard. F. S. Howard. 2,648,090, Aug. 11.
Valve: *See*—
Automatic high-pressure valve.
Drinking fountain valve.
Remote control metering valve.
Valve. M. Berland and M. Spiegler. 2,648,517, Aug. 11.
Valve actuator. A. O. Carpenter and C. E. Blank. 2,648,314, Aug. 11.
Valve for faucets, Mixture control. P. Hagen. 2,648,350, Aug. 11.
Valve for hydraulic motors, Locking. C. E. Deardorff and J. B. Gunn. 2,648,346, Aug. 11.
Valve for windshield cleaners, Remote-controlled. A. Rappl. 2,648,352, Aug. 11.
Valve mechanism. H. W. Price and E. E. Hupp. 2,648,311, Aug. 11.
Valve rotating device. E. K. Ralston. 2,648,319, Aug. 11.
Valve structure. J. W. McGarry. 2,648,349, Aug. 11.
Valved pipe coupling. A. T. Scheiwer. 2,648,548, Aug. 11.
Vapor-from-liquid separator apparatus. T. Ravese and E. V. Bentley. 2,648,307, Aug. 11.
Var measuring device. A. J. Petzinger. 2,648,821, Aug. 11.
Variable escapement for typewriters. F. W. Schremp. 2,648,418, Aug. 11.
Variable intermediate frequency transformer. A. Eberhardt. 2,648,825, Aug. 11.
Variable power steering gear. L. S. Parker. 2,648,233, Aug. 11.
Variable pressure system. R. E. Moore. 2,648,380, Aug. 11.
Variable-speed remote control for valves. R. R. Curtis and E. J. Kinum. 2,648,351, Aug. 11.
Vat dye and intermediate. W. Schmidt-Nickels. 2,648,676, Aug. 11.
Vehicle: *See*—
Garbage vehicle.
Vehicle actuated gate. F. S. Sefcovic. 2,648,140, Aug. 11.
Vehicle unloader. R. A. Shields. 2,648,447, Aug. 11.
Vehicle unloader car. R. A. Shields. 2,648,448, Aug. 11.
Vending machine, Beverage. H. A. Bendfelt. 2,648,274, Aug. 11.
Vent pipe support. S. Epstein. 2,648,511, Aug. 11.
Vent spacer, Wrap-around. S. Epstein. 2,648,320, Aug. 11.
Ventilating attachment, Window. B. G. Collida. 2,648,273, Aug. 11.
Vibrating equipment. L. E. Soldan. 2,648,441, Aug. 11.
Vibration controller for a resilient mounting. R. C. Henshaw. 2,648,509, Aug. 11.
Vibration damped force measuring device of the diaphragm type provided with a valve for automatically applying a pressure to the diaphragm sufficient to balance the force. A. A. Markson. 2,648,315, Aug. 11.
Vine-handling machine. E. D. Dahlman. 2,648,185, Aug. 11.
Visor apparatus. H. H. Zeder, J. H. Dirkson, and E. G. Zeeb. 2,648,566, Aug. 11.
Visual alignment of television receivers, Method and apparatus for. K. Enstein. 2,648,724, Aug. 11.
Visual electron flow indicator. L. S. Maloof. 2,648,795, Aug. 11.
Washing equipment, Textile print blanket. H. H. Bailey. 2,648,088, Aug. 11.
Washing machine and spin tub with one-way fluid drive, Combined. J. C. Sharp. 2,648,212, Aug. 11.
Washing machine. Squeezer extractor. F. Eberlein. 2,648,211, Aug. 11.
Washing machine with fluid drive. G. P. Castner. 2,648,213, Aug. 11.
Watch balance and staff. L. W. Muffley. 2,648,188, Aug. 11.
Waterproofing unit. H. Green. 2,648,264, Aug. 11.
Water purification unit. C. B. Moller. 2,648,291, Aug. 11.
Wave-form analyzing apparatus. W. G. Walter. 2,648,822, Aug. 11.
Wheel: *See*—
Airplane wheel.
Rubber tired gauge wheel.
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Windrower, Tractor-mounted. A. J. Heranek and A. F. Collmann. 2,648,186, Aug. 11.
Windshield wiper. C. W. Kiker, Jr. 2,648,087, Aug. 11.
Wire printing and feeding means, Card controlled. W. Wockenfuss. 2,648,277, Aug. 11.
Wrapper feeding mechanism. T. B. Dalton. 2,648,183, Aug. 11.
Wrapping machine. T. B. Dalton. 2,648,180, Aug. 11.

# CLASSIFICATION OF PATENTS

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NOTE.—First number = class, second number = subclass, third number = patent number

1— 7: 2,648,064
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2— 14: 2,648,067
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# DECISIONS IN PATENT AND TRADE-MARK CASES

## United States Court of Appeals District of Columbia Circuit

WESTGATE-SUN HARBOR COMPANY
v.
ROBERT C. WATSON, COMMISSIONER OF PATENTS

*No. 11309. Decided June 18, 1953*

[— F.2d —; 97 USPQ 523]

1. TRADE-MARKS—REGISTRABILITY—INFRINGEMENT PROCEEDINGS AFFECT RIGHT TO USE, NOT RIGHT TO REGISTER.

*Held* that the Ninth Circuit Court of Appeals in its decisions in *Van Camp Sea Food Co.* v. *Westgate Sea Products Co.*, 28 F.2d 957 cert. denied, 279 U. S. 841, and *Van Camp Sea Food Co.* v. *Cohn-Hopkins*, 56 F.2d 797, had no power to decide and did not decide that the appellant was entitled to register its trade-mark since its jurisdiction in infringement actions involves only the right to use the mark.

2. SAME—SAME—SAME.

Since the jurisdiction of the Circuit Court of Appeals in the trade-mark infringement actions extended only to the right to use the mark, *Held* that the Court of Customs and Patent Appeals did not err in failing to follow those decisions in holding that Westgate was not entitled to register its mark in *Van Camp Sea Food Co.* v. *Westgate Sea Products Co.*, 48 F.2d 950, and neither did the District Court when it ruled in this proceeding that those decisions have no effect on the issue as to appellant's right to register.

3. SAME—CONFUSION OF THE PUBLIC—NO NEW RIGHT CREATED BY SECTION 2(d) OF ACT OF 1946.

*Held* that the slight difference in wording between section 5(b) of the Trade-Mark Act of 1905 and section 2(d) of the act of 1946 does not change the test of confusing similarity with respect to marks on goods of the same descriptive properties and no new right is created by section 2(d) as to confusingly similar marks.

4. SAME—ACT OF 1946—CERTAIN DIFFERENCE IN PROCEDURE AS COMPARED TO ACT OF 1905 HELD NOMINAL.

Although the earlier proceeding constituted an appeal to the Court of Customs and Patent Appeals under section 9 of the act of 1905 and it followed an inter partes proceeding in the Patent Office whereas the later proceeding was ex parte as authorized by section 12(b) of the act of 1946, *Held* that these differences in procedure are purely nominal and cannot prevent res judicata from being a bar to the second proceeding.

5. SAME—CONFUSION OF PUBLIC—EVIDENCE OF ABSENCE OF ACTUAL CONFUSION HAS LITTLE PROBATIVE FORCE.

*Held* that no useful purpose would be served by re-examining the question of confusing similarity after twenty-two years on the ground that there was no actual confusion during that period since the absence of actual confusion even over long periods of time has very little probative force and is not a controlling factor.

6. SAME—REGISTRABILITY—"BREAST-O'-CHICKEN."

The decision of the District Court refusing to authorize registration of the appellant's trade-mark "Breast-O'-Chicken" is affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

*William G. MacKay*, (*Charles R. Allen* and *Charles R. Allen, Jr.*, of counsel) for appellant.

*E. L. Reynolds*, (*Joseph Schimmel* of counsel) for appellee.

Before CLARK, PROCTOR and FAHY, *Circuit Judges*

CLARK, *Circuit Judge*:

This is an appeal from a judgment of the District Court dismissing the complaint in an action instituted for the purpose of securing registration of appellant's trade-mark "Breast-O'-Chicken" for canned tuna fish.

For a proper understanding of the issues, a brief recital of the facts and a chronological résumé of past proceedings are necessary.

In 1926, appellant's predecessor in interest, the Westgate Sea Products Co.,[1] filed an application for registration of the trade-mark "Breast-O'-Chicken" under the Trade-Mark Act of 1905.[2] That application was opposed by Van Camp Sea Food Co.[3] on the basis of prior registration of its mark "Chicken of the Sea." In 1927, before the Patent Office had taken final action on Westgate's application, Van Camp brought an infringement suit against Westgate in the District Court but the Court of Appeals for the Ninth Circuit affirmed a dismissal of that action on the grounds that the two marks were "similar neither in appearance nor in sound" and that Van Camp's mark was descriptive.[4] The Patent Office thereupon dismissed the opposition proceedings and granted Westgate's 1926 application for registration,[5] but the Court of Customs and Patent Appeals, upon concluding that descriptiveness of Van Camp's mark was the primary holding of the Ninth Circuit Court, deter-

[1] Since there is no material difference between the rights of appellant and those of its predecessor both will subsequently be referred to as Westgate.
[2] 33 Stat. 724 et seq. (1905), 15 U. S. C. § 81 et seq. (1946).
[3] Hereinafter referred to as Van Camp.
[4] *Van Camp Sea Food Co.* v. *Westgate Sea Products Co.*, 28 F.2d 957 (9th Cir. 1928) cert. denied, 279 U. S. 841, 49 S. Ct. 263 (1929).
[5] *Van Camp Sea Food Co.* v. *Westgate Sea Products Co.*, 3 Pat. Q. 205 (1929).

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mined that it had the power to rule anew on the issue of confusing similarity—at least in so far as it related to registration (as distinguished from infringement)—reversed the Patent Office, and held that Westgate was not entitled to registration because "Breast-O'-Chicken" was so similar to "Chicken of the Sea" that "the use by [Westgate] of the trade-mark concurrently with the use by [Van Camp] of its trade-mark would cause confusion in the mind of the public . . ."[6] Meanwhile, Van Camp had initiated a second infringement suit against Westgate in the Ninth Circuit and again judgment in favor of Westgate was affirmed by the Court of Appeals.[7] That decision was based squarely upon the proposition that Van Camp's mark was descriptive and therefore not entitled to protection from infringement. Confusing similarity was not mentioned by the court.

Finally, in 1948, after enactment of the Trade-Mark Act of 1946,[8] commonly known as the Lanham Act, Westgate filed the present application for registration of "Breast-O'-Chicken" under section 2 (d) of the 1946 statute. The Patent Office ruled that while technically it was perhaps not bound by the 1931 C. C. P. A. decision, the determination made then that the two marks were confusingly similar was at least persuasive, and it refused to register Westgate's mark. The District Court held that res judicata actually precluded a redetermination of the issue of similarity on the merits, struck the evidence submitted on that point and dismissed the action. This appeal followed.

Appellant urges that the Patent Office erred and that the District Court misapplied the doctrine of res judicata when it failed to follow the two Ninth Circuit decisions on confusing similarity and relied instead upon the C. C. P. A. adjudication of that issue. But confusing similarity—or the lack thereof—was not even referred to in the second Ninth Circuit decision, and it was neither the ratio decidendi of nor necessary to the first decision, for the principal holding there, too, was descriptiveness. The C. C. P. A. so interpreted the decision and that interpretation takes on added plausibility from the fact that the Court of Appeals for the Ninth Circuit entirely discards the similarity theory when it had another chance to pass upon the issues in 1952.[9]

[1] In any event, the Circuit Court of Appeals never decided, never purported to decide, and had no power or jurisdiction to decide, that Westgate was entitled to register its mark. Under the statute, the duties of the C. C. P. A. in reviewing decisions of the Commissioner of Patents are quite different from those of the District Court or Circuit Court of Appeals in infringement actions. The jurisdiction of the former involves the question of the right to register, while the jurisdiction of the latter involves the right to use.[10] Here, the Court of Appeals simply ruled in an interference proceeding that Van Camp could not compel Westgate to stop using its mark, and that ruling stands. Equally efficacious and binding is the C. C. P. A. decision that "Breast-O'-Chicken" may not be registered.

We realize that these decisions create a somewhat anomalous situation, in that Westgate's mark is available for use but not for registration. But Congress provided for final adjudication of each of these issues by a different administrative and judicial process and the statutory scheme so prescribed may not be superseded by decisions in litigation over related but dissimilar questions.[11] [2] Consequently, the Patent Appeals Court did not err in failing to follow the decisions rendered in the Ninth Circuit,[12] and neither did the District Court when it ruled in this proceeding that those decisions have no effect upon the issues before the Patent Office and the courts in the present phase of the case.

The second principal issue raised by appellant relates to certain changes which are alleged to have intervened since the C. C. P. A. decision. We therefore must consider whether a change of such magnitude occurred in the law, in the applicable procedure, or in the facts and circumstances of the case during the period elapsed since the C. C. P. A. decision, as to make possible a readjudication on the merits of the issues adjudicated at that time.

Section 5 (b) of the Trade-Mark Act of 1905, as amended,[13] which was in effect when the C. C. P. A. decided against Westgate, prohibited registration of marks "which so nearly resemble a registered or known trade mark . . . appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers . . ." Section 2 (d) of the Lanham Act,[14] under which the present action was brought, provides that there shall be no registration of any mark "which so nearly resembles a mark registered in the Patent Office or a mark or trade name previously used in the United States . . . as to be likely, when applied to the goods of the applicant, to cause confusion or mistake or to deceive purchasers . . ." [3] The slight difference in wording does not change the test of confusing similarity with respect to marks on goods of the same descriptive properties and no new right is created by § 2(d) as to confusingly similar marks of such character. They are not registrable. Unless the intervening change in the law is material—and with respect to the sections here relevant it is not—it cannot prevent a final adjudication of an issue in an earlier proceeding from being conclusive upon the courts in any subsequent action. [4] Westgate urges to the contrary that procedures now in effect differ from those applicable when the earlier case was decided and suggests that res judicata should not be applied because of that difference. While there is a considerable variance between the 1905 and the 1946 registration procedures, that variance again is not of such substantial and material character as to preclude application of the doctrine. Under § 9 of the act of 1905,[15] the dissatisfied party in a registration proceeding (Van Camp) had the right to appeal to the C. C. P. A.; but if any party, including the would-be registrant (Westgate), elected to proceed in the District Court by a bill in equity under Rev. Stat. § 4915,[16] then dismissal of the C. C. P. A. proceedings became mandatory[17] and the issue of registrability was decided de novo by the District Court. Westgate failed to so elect and as a result the decision of the C. C. P. A. became a final adjudication of the issue. We held in *Hemphill v. Coe*,[18] that "the remedies [provided by the equity action and the C. C. P. A. proceeding] are alternative and mutually exclusive" and that "the remedy elected is conclusive of the issues raised and those which might have been raised."[19] Also, the finality and binding character of the earlier decision is not impaired merely because the 1931 decision was made following an inter partes proceeding (interference action by Van Camp pursuant to § 6 of the 1905 statute)[20] whereas on the 1948 application the Patent Office denied registration by the ex parte method authorized by § 12 (b) of the Lanham Act.[21] The issue in both cases was the same; all the parties required by the statute to be before the Patent Office or the particular court were, in fact, represented in each case; and the method or procedure prescribed for final determination of the right to registration was pursued. The difference in procedure was purely nominal and cannot, therefore, prevent res judicata from being a bar to the second proceeding.[22]

As for any possible change in the facts or circumstances, we are not certain that the issue is properly before this court, for appellant failed to object when Judge Letts struck the evidence introduced for the purpose of proving that there had been no actual confusion between the two marks. But to dispel any doubt as to our view, we discuss this matter briefly.

[5] In 1931, when the C. C. P. A. reversed the Patent Office, "Breast-O'-Chicken" had already been in use for some five years concurrently with "Chicken of the Sea." It is not probable that the Patent Appeals Court simply disregarded that factual experience or that it based its decision solely on a comparison of the marks themselves.[23] No useful purpose would be served by permitting the reopening of a case after twenty-two years on the ground that there was no confusion during that period if a competent tribunal had previously determined—either because of the intrinsic similarity of the marks or based on the factor of five years' actual experience or both—that concurrent use of the marks as likely to cause confusion in the public mind. That is true particularly in view of the fact that the absence of actual confusion, even over long periods of time, has "very little probative force,"[24] and "is not a controlling factor."[25]

The conclusive effect of a judicial determination of the ultimate fact of confusing similarity should not be disturbed simply because some evidentiary facts from which the ultimate facts might have been inferred had not been considered or had been unavailable in the former proceeding.[26] Otherwise, cases of this type could be reopened again and again, whenever a party collected some more evidence with which to attack and undermine the earlier ruling. Here, as in other fields of law, there must some time be an end to litigation, not only in the interest of the adverse party who should not be vexed twice or thrice or even more times for the same cause, but also in the interest of the state in settled law and legal relations and that of courts and litigants in an orderly judicial process which would be seriously jeopardized by unnecessary over-crowding of already crowded dockets.[27]

[6] We have considered the other points raised by appellant and we find no error. Our decision, however, is without prejudice to any application for concurrent registration under § 2 (d) which appellant might wish to file in the Patent Office.

AFFIRMED.

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FAHY, *Circuit Judge* (dissenting):

I agree with all the reasons stated by Judge Clark, except one, as to why the 1931 decision in

[6] *Van Camp Sea Food Co. v. Westgate Sea Products Co.*, 48 F.2d 950, 952 (CCPA 1931).

[7] *Van Camp Sea Food Co. v. Cohn-Hopkins*, 56 F.2d 797 (9th Cir. 1932).

[8] 60 Stat. 427 et seq. (1946), 15 U. S. C. § 1051 et seq. (1946).

[9] And referring to its earlier decision, the Court of Appeals said that "we there held that 'Breast-O'-Chicken' did not infringe the trade-mark 'Chicken *of* the Sea' for the reason that the word 'chicken' . . . was descriptive." 56 F.2d at 797. Derenberg, Trade-Mark Protection, § 81, p. 693 (1938 ed.) comes to the same conclusion.

[10] *Van Camp Sea Food Co. v. A. B. Stewart Org.*, 50 F.2d 976 (CCPA 1931); *Alumatone Corp. v. Vitavar Corp.*, 183 F.2d 612 (CCPA 1950).

[11] Compare *Denver Bldg. & Const. Tr. C. v. N.L.R.B.*, 87 U. S. App. D. C. 293, 298, 186 F.2d 326 (1950), reversed on other grounds, 341 U. S. 675, 71 S. Ct. 943 (1951).

[12] See *Van Camp Sea Food Co. v. A. B. Stewart Org.*, supra, note 10.

[13] 33 Stat. 725 (1905) as amended, 15 U. S. C. § 85(b) (1946).

[14] 60 Stat. 428 (1946), 15 U. S. C. § 1052(d) (1946).

[15] 33 Stat. 727 (1905), as amended by § 2(b) of the Act of March 2, 1929, 45 Stat. 1476 (1929), 15 U. S. C. § 89 (1946).

[16] As amended, 35 U. S. C. § 63 (1946).

[17] Rev. Stat. § 4911 (1875), as amended, 35 U. S. C. § 59(a) (1946).

[18] 74 App. D. C. 123, 124, 121 F.2d 897 (1941), and see cases there cited.

[19] The principles of *Hemphill v. Coe*, a patent case, are applicable to trade-mark cases as well.

[20] 33 Stat. 726 (1905), as amended, 15 U. S. C. § 86 (1946).

[21] 60 Stat. 432 (1946), 15 U. S. C. § 1062(b) (1946).

[22] Compare *Sunshine Coal Co. v. Adkins*, 310 U. S. 381, 402, 60 S. Ct. 907 (1940). And compare, generally, *Southern Pacific Railroad v. United States*, 168 U. S. 1, 48, 18 S. Ct. 18 (1897).

[23] The court said at p. 952 of 48 F.2d: ". . . considering the similarity of the marks *and other facts and circumstances* of record, it would seem to be clear that the use by appellee of its trade-mark concurrently with the use by appellant of its trade-mark would cause confusion in the mind of the public . . ." (Emphasis supplied.)

[24] *Hygienic Products Co. v. Huntington Laboratories*, 139 F.2d 508, 512 (CCPA 1943).

[25] *Celanese Corp. v. E. I. Du Pont*, 154 F.2d 146, 147 (CCPA 1946). See also *In re American Fork & Hoe Co.*, 146 F.2d 510 (CCPA 1944).

[26] Compare *In re Barratt's Appeal*, 14 App. D. C. 235, sub nom. *Barratt v. Duell*, 1899 C. D. 320 (1899); *Taylor v. Marzall*, — U. S. App. D. C. —, 196 F.2d 592 (1952); *Hemphill v. Coe*, supra.

[27] See *Commissioner v. Sunnen*, 333 U. S. 591, 596, 68 S. Ct. 715 (1948).

*Van Camp Sea Food Co., Inc.* v. *Westgate Sea Products Co.*, 18 CCPA 1311, 48 F.2d 950 (1931), is res judicata of the present case.[2] The one disagreement leads me to conclude res judicata does not apply. The 1931 decision was rendered on the basis of a comparison of the marks themselves and the opinion of several witnesses that the use of "Breast-O'-Chicken" would cause confusion in the trade. The mark had not been long in use when the record was made on which the 1931 decision was based. The present application came before the court below more than twenty years later. Evidence was then offered of widespread use of the mark during the intervening years without confusion in the trade with the Van Camp mark. In a formal sense the issue in 1931 and now may be stated in like language, namely, whether the mark so resembled the one registered as to be likely to cause confusion or to deceive purchasers; but the issue thus stated, turning on the question of likelihood of confusion or deception, is not in 1951 the same as it was in 1931. The situation is analogous to that described in *John Morrell & Co.* v. *Doyle*, 97 F.2d 232, 234 (7th Cir.), cert. denied, 305 U. S. 643 (1938), a trade-mark infringement case, where a prior decision of the Court of Customs and Patent Appeals as to the likelihood of confusion due to similarity of marks was described as

> "• • • nothing more than an opinion, the accuracy of which only the future might reveal. It was not a determination of an existing or passed fact or event, but was of a speculative nature as to what was likely to subsequently occur. The issue here is not what may occur, but what has actually taken place. • • •"

That case involved the right to use a mark, not to register it, as here, but the thinking of the court seems pertinent to the present problem. The purpose of res judicata, see *Commissioner* v. *Sunnen*, 333 U. S. 591, 597 (1948), is rendered no disservice by holding the doctrine inapplicable in the unique circumstances here presented, and where the "significant facts" have changed. 333 U. S. at 599. Recurring litigation over the right to register the same mark, with no significant difference in the issues, must of course be avoided; and the mere availability at a later period of additional evidence is not enough to reopen a question adjudicated. But something more is here present. The public policy of those principles of the trade-mark law which are now before us is a continuing one requiring current administration. Current application of those principles calls for consideration of evidence of experience in the trade for the preceding twenty years, insofar as material to the question of confusion. I do not intimate how the question should be decided, only that it was open for decision notwithstanding the 1931 adjudication of the Court of Customs and Patent Appeals. If likelihood of confusion should now be found registration would not be authorized. On the other hand if such likelihood were not found no injury would be entailed by registration. The policy of the statute in either event would be furthered.

The case is distinguishable on its controlling facts from *Hemphill Co.* v. *Coe*, 74 App. D. C. 123, 121 F.2d 897 (1941). Such cases as *Chase* v. *Coe*, 74 App. D. C. 152, 122 F.2d 198 (1941), and *Taylor* v. *Marzall*, 90 U. S. App. D. C. 350, 196 F.2d 592 (1952), where a decision of the District Court was sought in the same case after resort to the Court of Customs and Patent Appeals, are not in point. Of closer application is the reasoning in *Sprague* v. *Woll*, 122 F.2d 128 (7th Cir.), cert. denied, 314 U. S. 669 (1941). There the Interstate Commerce Commission had held that a certain interurban railroad line was not part of a general railroad system, an important holding bearing on the railroad's obligations under the Railway Labor Act. This decision was upheld by the Supreme Court. Thereafter the question was reopened by the Commission and decided differently. On review the Court of Appeals held that the Commission was not bound by the earlier decision of the Supreme Court. It followed that the reviewing court also was not bound.

In my opinion the appellant, plaintiff below, was not barred from a hearing and decision on the merits, that is, on the question of likelihood of confusion, notwithstanding the 1931 decision of the Court of Customs and Patent Appeals in *Van Camp Sea Food Co., Inc.* v. *Westgate Sea Products Co.*, supra. I would reverse and remand.

[2] I agree with the position taken by the Commissioner of Patents in this court that dismissal of the complaint below was on the ground of res judicata, notwithstanding some ambiguity due to the fact that the court found and concluded that the mark "Breast-O'-Chicken" so nearly resembled the registered mark "Chicken of the Sea" as to be likely to cause confusion or to deceive purchasers. The court in the end struck out the evidence tentatively received on these subjects, ruling such evidence immaterial because of res judicata. Accordingly, the finding and conclusion of confusion are to be construed as based on the court's decision that the issue had been adjudicated.

## U. S. Court of Customs and Patent Appeals

IN RE THE DIAMOND FERTILIZER CO.

*No. 5949. Decided April 15, 1953*

[203 F.2d 767; 97 USPQ 333]

TRADE-MARKS—DESCRIPTIVENESS—"EZ FLO."

The decision of the Commissioner of Patents holding "EZ FLO" to be descriptive of insecticide dust and other products to which it is applied is affirmed.

APPEAL from Patent Office. Serial No. 567,763.

AFFIRMED.

*Slough and Slough* (*J. Helen Slough* of counsel) for appellant.

*E. L. Reynolds* for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Commissioner of Patents affirming the decision of the Examiner of Trade-Marks denying appellant's application for registration on the Principal Register under the act of 1946 of the mark "EZ FLO" for use on insecticides (dusts), plant and horticultural parasiticides, agricultural, crop and animal sprays, fungicides, and plant hormones for agricultural use.



The sole rejection advanced by the Examiner and approved by the Commissioner is that the mark as a whole is descriptive within the purview of section 2(e) of the character or quality of the goods with which it is used,[1] because the letters "EZ" together with the misspelled word "FLO," are merely the phonetic equivalent of the words "Easy Flow." 91 USPQ 343.

The Solicitor for the Patent Office in support of the decision appealed from properly urges that the involved dust is one which is sprayed; that the passage of dust through a spraying device, either in a solution of liquid or entrained in a gas, such as air, would ordinarily be described as a flow; and that the only reasonable impression which could be derived from the words "Easy Flow" when applied to material designed to be sprayed, is that such material would flow easily, uniformly, and without clogging the spraying device.[2]

Appellant's contention that the words which constitute its mark are not descriptive but merely suggestive of the desirable character or quality of the goods with which the mark is used cannot therefore be sustained.

For the reasons stated, the decision of the Commissioner of Patents is affirmed.

AFFIRMED.

## U. S. Court of Customs and Patent Appeals

CLARK v. CAMRAS

*No. 5905. Decided April 15, 1953. Petition for rehearing denied May 29, 1953*

[204 F.2d 273; 97 USPQ 434]

1. INTERFERENCE—REDUCTION TO PRACTICE COUNTS NOT TO BE GIVEN UNWARRANTED OVER-BROAD INTERPRETATION.

*Held* that, in applying the rule that counts of an interference should be given the broadest interpretation of which they are reasonably capable, the word "reasonably" should not be deleted, and words in a count are to be given their ordinary meaning in the art rather than an unwarranted over-broad interpretation.

2. SAME—SAME—SAME.

Counts are not to be given a construction broader than the invention disclosed in the involved applications so as to read on a prior reduction to practice by one party to which his application was not intended to relate, notwithstanding that the issue counts could reasonably be construed to cover the device reduced to practice.

3. SAME—PRIORITY OF INVENTION—MAGNETIC ERASING HEAD FOR RECORDER.

The decision of the Board of Interference Examiners awarding priority of invention of certain counts directed to an erasing head for magnetic recorders to appellee is reversed.

APPEAL from Patent Office. Interference No. 83,541.

*T. L. Boices* (*Raymond W. Colton, Mason, Kolehmainen, Rathburn & Wyss*, and *M. Hudson Rathburn* of counsel) for appellant.

*Donald J. Simpson* (*Hill, Sherman, Meroni, Gross & Simpson* of counsel) for appellee.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Interference Examiners of the United States Patent Office awarding priority of invention as to all counts in issue to appellee Marvin Camras.

The interference is between appellant's application, Serial No. 579,393, filed February 23, 1945, and appellee's application, Serial No. 612,688, filed August 25, 1945. Thus, appellee is the junior party.

The invention here involved relates to a magnetic erasing head for a magnetic wire (or tape) recorder machine. There are three counts in issue, which read as follows:

1. In an erasing head, a core of magnetic material having a slot extending across a surface thereof, said core having a plurality of gaps adjacent each other in said surface extending across said slot, means for developing across each of said gaps by interconnected ferromagnetic circuits in said core, an alternating magnetic erasing field, a ferromagnetic medium, and means for moving said medium through said slot and successively across said gaps whereby any signal magnetically recorded on said medium previously is erased.

2. In an erasing head, a core of magnetic material having a slot extending across a surface thereof, said core having a plurality of gaps adjacent each other in said surface extending transversely thereof through said slot, a coil for alternating erasing current encircling a portion of the core between said gaps, a ferromagnetic medium, and means for moving said medium through said slot and successively across said gaps whereby any signal magnetically recorded on said medium previously is erased.

3. In an erasing head, a core of magnetic material having a slot extending therealong, said core having a pair of gaps adjacent each other and extending transversely thereof through said slot, means including a coil individual to each gap for developing across each of said gaps, an alternating magnetic erasing field, a ferromagnetic medium, and means for moving said medium through said slot and successively across said gaps whereby any signal magnetically recorded thereon previously is erased.

As appears from the counts, the subject matter of the invention relates particularly to an erasing head having a plurality of gaps with an alternating magnetic erasing field developed across each of said gaps. Count 1 is a generic claim, and counts 2 and 3 are each directed to a separate species.

The physical embodiment to which the counts are directed comprises a small flat core piece of paramagnetic metal having two narrow slits extending from one edge which is slotted, each slit joining an enlarged cutout portion in the core piece. Thus the core piece is generally E-shaped, with a base portion, and a center and two outside legs extending therefrom.

In the specific embodiment covered by count 2, a single coil is mounted on the center leg of the "E," and when this coil is energized two ferromagnetic circuits are developed. In one circuit, flux passes through the center leg, base, first outside leg and first slit between said legs, which slit provides a first erasing gap; in the other circuit, flux passes through the center leg, base, second outside leg, and second slit between said legs, which slit provides a second erasing gap. In the specific embodi-

[1] Citing, *Ex parte Jeffrey Mfg. Co.*, 60 USPQ 382; *Ex parte Welch*, 64 USPQ 310.

[2] Citing, Webster's New International Dictionary, Second Edition; *Beckwith* v. *Commr. of Patents*, 252 U. S. 538; *Andrew J. McPartland, Inc.* v. *Montgomery Ward & Co., Inc.*, 35 CCPA (Patents) 802, 164 F.2d 603, 76 USPQ 97, certiorari denied, 333 U. S. 875; *In re Swan & Finch Co.*, 49 D. C. 95, 259 Fed. 991. See also *Celanese Corporation of America* v. *E. I. Du Pont de Nemours & Co.*, 33 CCPA (Patents) 948, 154 F.2d 146, 69 USPQ 101.

ment covered by count 3, a separate coil is mounted on each of the outside legs to generate two such ferromagnetic circuits.[1]

The applications of the parties indicate that the invention of the counts was the result of a search for a device which would effectively remove or "erase" a previously recorded signal from a record medium having high coercive force, e. g., magnetic stainless steel wire. Such a record medium has more desirable recording properties than those previously used, e. g., medium carbon steel types, but is more difficult to satisfactorily "erase" for reuse.

Camras, as the junior party, has the burden of proving priority of invention by a preponderance of evidence. *Allen* v. *Blaisdell et al.*, 39 CCPA (Patents) 951, 196 F.2d 527, 93 USPQ 428.

Both parties took considerable testimony and introduced numerous exhibits. However, our discussion of the evidence may be somewhat abbreviated due to certain concessions by both parties.

Camras concedes that Clark's evidence establishes a conception and reduction to practice at least as early as December 31, 1944, with respect to counts 1 and 2. As to the invention of count 3, the record, in our opinion, clearly establishes conception on January 2, 1945, when Clark completely disclosed the same in a fully corroborated "inventor's draft" made out as the initial step in preparation of an application for patent by his assignee's patent attorney. However, Camras claims there is insufficient evidence of diligence between January 2, 1945, and February 23, 1945, so that Clark must be restricted to his filing date as to count 3. We think the latter claim is without merit. In our opinion, the uncontradicted testimony (stipulated) by Mr. D. Clyde Jones, former attorney for Clark's assignee, shows sufficient diligence in preparing and filing the Clark application here involved which is based on the inventor's draft referred to above. Accordingly, we hold that Clark is entitled to a date for completion of his invention which is at least as early as December 31, 1944, as to counts 1 and 2, and at least as early as January 2, 1945, as to count 3.

To establish priority of invention, Camras relies upon the conception and reduction to practice, prior to Clark's earliest date, of the multiple gap combination erase-record heads of Camras' Exhibits Nos. 17, 4, and 12, described below. Clark has contended most vigorously before this court, and before the Board, that those heads do not embody the invention here in issue and do not establish either conception or reduction to practice of the issue counts.

Camras' documentary Exhibit No. 17 is a copy of U. S. Patent No. 2,418,542, issued April 8, 1947, to Camras on an application filed January 20, 1944. That patent discloses, inter alia, a combination erasing-recording head having a core piece which is slotted along one edge with two narrow slits or gaps extending from said edge, the core pieces being substantially like the two gap, E-shaped core pieces shown in the applications here involved. A first coil is wound on the base portion between the center leg and one outside leg with a high-frequency oscillator connected thereto. The patent refers to this as the "erasing head portion" or "erasing head." A second coil is wound on the base portion between the center leg and the second outside leg with audio signal input means connected thereto. The patent refers to this as the "recording head portion" or "recording head." The gap in the former portion is the erasing gap, and the gap in the latter is the recording gap. The wire recording medium passes over the erasing portion gap first and, according to the patent, "the high frequency flux set up by [the first coil of the erasing head portion] in the vicinity of this gap will *effectively* demagnetize *or clean* the recording medium. [Italics added.] • • • Some of this flux will stray and pass through the recording head portion of the core • • •. This stray high frequency flux is sufficient to provide the desired high frequency component in the recording head. • • •" The record clearly establishes that the "high frequency component" here mentioned is commonly referred to as the "bias field" in this art. Camras is of course entitled to a constructive reduction to practice as of January 20, 1944, for the subject matter disclosed in this patent.

Camras' physical Exhibit No. 4 is a combination erase-recording head of the type disclosed in Camras' documentary Exhibit No. 13, which is a copy of U. S. Patent No. 2,435,871, issued February 10, 1948, to Camras on an application filed August 26, 1944. The head of Exhibit 4 differs in structural details from that of Exhibit 17, but is essentially very similar to it in fundamental structure and principle of operation. It comprises a paramagnetic core piece having two gaps with a separate coil surrounding each of the gaps. One coil, referred to as the "erasing coil" in Exhibit 13, is connected to a high-frequency source, and the second coil is connected to an audio signal input means for recording. The desired high-frequency bias field in the recording gap surrounded by this latter coil is provided by stray high frequency flux resulting from the flux produced in the "erasing coil." Camras is of course entitled to a constructive reduction to practice as of August 26, 1944, for this head, and the testimony of record indicates an actual reduction to practice on June 24, 1944, or July 1, 1944.

Camras' physical Exhibit No. 12 is a combination erase-recording head substantially like that of Exhibit 4. The sole difference is that the wire of the erasing coil is also looped once around the recording gap, thereby forming a second, one-turn coil in series with the coil surrounding the erasing gap. The testimony of record indicates that the purpose and function of this second one-turn loop

[1] The embodiment relied on by Camras to support count 3 varies somewhat from this description. Since such variation is immaterial to the outcome of the case, it is deemed unnecessary to discuss it in detail.



is to provide the desirable high-frequency bias field in the recording gap. It appears from an examination of Exhibit 12 that the coil surrounding the erasing gap has about 20 turns, and it is therefore clear that the high-frequency flux in the erasing gap is of much greater intensity than that produced in the bias field. The testimony of record indicates an actual reduction to practice of this head sometime in the summer of 1944.

Both parties primarily direct their arguments to Exhibits 4 and 12.

It appears to us that, in essence, Camras bases his case on the claims that (1) the heads of Exhibits 4 and 12 (and 17) were reduced to practice before Clark's earliest date (Clark concedes this); (2) that the testimony of record shows that record mediums were drawn over such heads across both gaps with no audio input to the record gap coil, for the purpose of erasing only (Clark concedes this), and that the record member was satisfactorily erased as it left the head; (3) that there is present in the second record gap a high-frequency flux, whether it be a stray flux, as in Exhibit 4, or a purposely induced flux, as in Exhibit 12 (Clark concedes this); (4) that such high-frequency flux in the so-called record gap, albeit of low intensity, provides a second alternating magnetic field in said gap; (5) that the testimony of record shows that this latter field will necessarily produce a "demagnetizing" or "erasing effect"; (6) that the claims merely describe the field in the second gap as an "erasing field" and therefore, in view of points (3), (4) and (5), supra, the counts in issue are broad enough to read directly on the phenomenon occurring in the so-called record gap when these heads are used for erasing only, so that the counts in issue are supported by the heads of Exhibits 4 and 12 (and 17).

Although Clark makes a partial concession as to point (2), he does so with the reservation that, while such a head satisfactorily erases wires of relatively low coercive force which were used in the tests relied on by Camras, it will not satisfactorily erase wires of high coercive force, for which purpose the heads of the applications here involved were purposely designed. It is our opinion that the preponderance of evidence in the record clearly supports this latter point raised by Clark. Clark also contends vigorously (*a*) that the preponderance of evidence shows that for *effective erasing* it is essential to get a sufficiently intense flux in the erasing gap to sensibly saturate the recording medium as it passes through the gap; (*b*) that the high-frequency flux present in the second record gap of Exhibit 4 and Exhibit 12 (and 17) was clearly designed to produce a bias field in the recording gap, which the preponderance of evidence shows must necessarily be considerably less than that required to saturate the record medium for effective erasing; (*c*) that because of this latter fact there is no appreciable or *effective erasure* in the second gap, although this second flux in the record gap will concededly have an additional "demagnetizing" or "attenuating" effect on the record medium; (*d*) that the preponderance of expert testimony shows that no appreciable erasure occurs in a properly designed recording gap with bias field adjusted for optimum distortionless recording because different design factors are controlling for such gaps and erasing gaps; (*e*) that erasing and biasing fields for recording gaps are antithetical in nature; (*f*) that the "erasing field" called for in the second gap in the counts in issue is a material limitation; and (*g*) that if the term "erasing" is given its ordinary meaning in the art here involved it cannot reasonably be construed to read on the bias field produced in the record gaps of the combination erase-record heads of Exhibits 4 and 12 (and 17) by the bias flux when those heads are used for erasing only.

The contentions of the parties as set out above were also raised before the Board of Interference Examiners. The Board held that the counts were supported by Camras' Exhibits 4 and 12 and awarded priority to Camras. It based its decision essentially on the grounds advanced by Camras in points (1) to (6) in the next preceding paragraph. The Board also indicated that it was of the opinion that Clark seeks to construe the counts as though the word "completely" were inserted before "erasing" in the counts and held the counts could not be so construed, citing *Van Hulst* v. *Sullivan*, 25 CCPA (Patents) 777, 93 F.2d 53, 36 USPQ 55. Noting that counts of an interference should be given the broadest construction of which they are reasonably capable, the Board stated:

> • • • his [Clark's] position appears to be that the counts in issue are limited to a head, with a plurality of gaps, adapted to be used for erase purposes only and are not applicable to a combination or double-purpose head, such as that of Camras. There is nothing in the wording of any of the counts which can be construed as limiting them to a head adapted to be used only as an erase head. The counts are satisfied so long as the head, to which they are applied, has a plurality of gaps and is adapted to have at least a portion of the signal erased at each of the gaps. The counts are not exclusive in nature. We hold that they are applicable to Exhibits 4 and 12 of Camras.

It is clear then that the issue before the Court involves a construction of the counts in issue, not for the purpose of determining the right of the party to make them, but rather for the purpose of determining their applicability to the combination multiple gap heads of Camras' Exhibits 4 and 12 (and 17) when used for erasing. Indeed, the problem of construction narrows down to the interpretation of the meaning of a single word, namely, "erasing."

To support the claim that a high-frequency bias field produces an "erasing effect" (as he terms it), counsel for Camras calls our attention to the following corroborated testimony by Mr. J. Sterling Kemp, Jr., physicist and Director of the Magnetic Recorder Division of Armour Research Foundation:

> Q. 40. Have you ever tried to make a re-recording on a magnetic record member without erasing the previous record?
>
> A. Yes, I have.
>
> Q. 41. Will you tell us what you have done in that connection and when you did it?
>
> A. It was my purpose to determine whether or not it is possible to record a tone, a chord, on a wire by recording first one note and then subsequently passing the

media through a recording head, *but not through the erase field*, and record the second note of the chord, and then subsequently pass the media again through the recording head, in the absence of an erase field, recording the third note, and subsequently and in the same manner recording the fourth note.

It was my discovery that on each successive recording the play-back level of the notes recorded previously was *diminished*.

Q. 42. How did you account for that?

A. It was my opinion that the high frequency bias was capable of *at least partially erasing the signal* recorded on the wire.

Q. 43. And that it actually did that?

A. That is right. [Italics supplied.]

Counsel urges we must conclude from this that when the two gap erase-record heads of Exhibits 4 and 12 are used for erasing, both gaps produce an "erasing effect" (as he terms it) on a record member passed thereover, as a result of the alternating field in each gap.

The party Clark, however, has conceded that in the latter case there will be a "demagnetization" or "attenuation" of the record medium in the recording gap as a result of the bias field; indeed, Clark and the expert witness Holmes (identified below) so testified. But he contends that this is not "erasing" within the meaning of the term as ordinarily used in the art and as used in the applications and counts here involved.

Both parties called expert witnesses to give testimony with respect to design considerations and inherent characteristics of high-frequency erasing fields and high-frequency biasing fields.

Mr. Lynn C. Holmes, Director of Research for Stromberg-Carlson Co. of Rochester, New York (Clark's assignee), was called by the party Clark as an expert witness, and testified as follows:

Q. 127. Mr. Holmes, did it ever occur to you to try a head of this type [such as Camras' Exhibit No. 41 as a two-gap erase head? By this type I mean a combination head.

A. No, it did not.

Q. 128. Would you explain why?

A. Primarily because you would never use a gap that was designed for recording as an effective erasing gap. The conditions for the design are far different in the two cases.

Q. 129. When you say you would never use, would you explain further what you mean by "use"? Do you mean you would not design a head in that manner?

A. You would not design a head in that manner.

Q. 130. Does your statement mean that a good recording gap is not a good erasing gap?

A. Ordinarily that is true. A good recording gap is not a good erasing gap. For a good recording gap the space distribution of the field at the trailing pole must fall off rapidly as a function of distance away from that trailing edge. For the best erasing gap, the field should fall off gradually. Now we have got to say at a given recording medium speed and at a given frequency of erasing or a given frequency of biasing or a given frequency of audio frequency recording current. In other words, at a given frequency of erasing and at the given speed for the recording medium, better erasing is effected when the space distribution of the field as a function of distance from the trailing pole piece falls off gradually rather than falls off sharply. For good recording just the reverse is true, as the sharper that that field falls off the better the recording will be.

Holmes also testified that a section designed for good recording cannot be a good erasing section.

The party Clark explained the distinctions between erasing fields and biasing fields as follows:

Q. Please explain what you consider to be the most important design considerations for recording gaps or heads as distinguished from erasing gaps or heads.

A. For a recording gap the chief consideration is to get an abrupt discontinuity in the magnetic field as the wire leaves the gap. In an erasing gap you attempt to make the design such that the magnetic field will fall off somewhat gradually as the wire leaves the gap. In addition, in a recording gap in a system of magnetic recording using high frequency bias, you will normally set the bias—and by that I mean the high frequency flux in the recording gap—you would normally set this to get a good recording with respect to such characteristics as distortion and frequency response. This means that this high frequency flux in general is considerably less intense than that required to saturate the medium. In the erase gap, on the other hand, you attempt to get sufficiently intense flux so that you can sensibly saturate the recording medium as it passes through the gap.

With respect to the combination heads of the type built and tested by Camras, Clark said:

Q. What do you consider to be the essential difference between the manner of operation of these combination heads and your two-gap erase head?

A. I think that there are two essential differences. In our two-gap erase head we attempt to sensibly saturate the recording medium in each of the two gaps, whereas in a combination head with normal bias in the recording gap the magnetic field intensity is insufficient to saturate the medium in the recording gap. In addition, our two-gap erase head is designed to have a rather gradual decrease in the magnetic field intensity as the wire leaves each gap, whereas in a combination head the design is intended to give an abrupt decrease in the magnetic field intensity as the wire leaves the gap.

We find nothing in the record which convincingly rebuts the above testimony by Holmes and Clark. Indeed, that testimony is supported by testimony of Dr. David Edgar Wiegand, Senior Physicist at Armour Research Foundation in Chicago, Illinois (Camras' assignee), who was called as an expert witness by the party Camras. On cross-examination, he was asked whether the bias in the recording gap of a combination erasing-recording head (specifically one of the type in Camras' Exhibit 17) would, in his opinion, be chosen for complete erasure or for optimum performance as a recording gap. He answered:

A. The head would be designed so that *the lefthand* [erasing] *gap would essentially completely erase any previously made recording*, and the proportions of the legs would be so set that when the lefthand gap is operating in this manner, a proper amount of *biasing field for distortionless recording* is superimposed on the audio field in the righthand [recording] gap. [Italics supplied.]

Dr. Wiegand also testified further, on cross-examination, that different flux distribution is required for erasing and recording:

Q. 74. In your experience, is there any particular pattern that is better adapted to erasing than any other?

The Witness: A. In general, a gradual tapering off of the field is required, but when you work the head at high fields, you automatically get that, due to saturation at the tips of the gap.

Q. 75. In other words, the space distribution, is the word I was trying to think of—the space distribution of the field, it is preferred to have it taper off in erasing?

A. That is right.

Q. 76. Is that true in recording gaps?

A. In the recording gap it is more desirable to have the field terminate rather abruptly.

Q. 77. From what you see here, and based on your experience, would you say that the righthand [recording] gap • • • is designed to give the preferred space distribution of an erase field?

• • • • • • •

The Witness: A. Well, the primary consideration in the design of the righthand gap, for the reasons I mentioned previously, the fact that we have the audio amplifier and the microphone there would indicate to me that the primary consideration would be to make it serve effectively as a recording gap.

[1] Appellee's counsel correctly asserts that the issue here is that of priority under the counts as drawn, *Kirby* v. *Clements*, 44 App. D. C. 12, and that counts of an interference should be given the broadest interpretation of which they are reasonably capable. *Van Hulst* v. *Sullivan*, supra. But, in applying this latter rule the word "reasonably" should not be deleted. *Harris* v. *Henry*, 20 CCPA (Patents) 883, 63 F.2d 120, 16 USPQ 442, and the crucial language in a count should not be given an unwarranted over-broad interpretation. Words in a count are generally to be given their ordinary meaning in the particular art involved. *Dirkes et al.* v. *Eitzen*, 25 CCPA (Patents) 1176, 96 F.2d 849, 37 USPQ 722.



We are of the opinion that the testimony of record, some of which is quoted above, shows by an overwhelming preponderance of the evidence that an erasing gap and field is completely different from a recording gap having a bias field, insofar as design factors and inherent characteristics are concerned. Indeed, we agree with counsel for Clark that the two are antithetical in nature and function.

Furthermore, Clark and Holmes testified that, in their opinion, although a recorded signal on a record medium would probably be attenuated (i. e., lessened or weakened) by passage through a bias field, it would not thereby be "erased" in the sense that the wire would then be in suitable condition for re-recording. We find nothing in the record which convincingly rebuts this testimony; note the italicized portions of the above-quoted testimony by Kemp which is relied on so heavily by Camras. Hence, we are of the opinion that the preponderance of expert testimony shows no appreciable erasure occurs in a properly designed recording gap of a combination erase-record head having a bias field adjusted for optimum recording; and that no appreciable "erasing" (defined infra) occurs in the heads of Exhibits 4 and 12 (and 17) when used to erase only.

We think that the preponderance of the evidence of record indicates that the ordinary meaning of the term "erasing" in this art is the *effective* demagnetization or *cleaning* of the recording medium[1] so as to substantially remove therefrom as thoroughly as possible (not necessarily completely) any existing signal impressed thereon. Likewise, we think the record shows that an erasing head must have an alternating high-frequency field with maximum intensity values greater than anything on the recording medium, i. e., it must be of sufficient intensity to produce saturation. The record also clearly shows that a bias field is no more than a relatively low intensity high-frequency field produced in the record gap to enable recording in an operating range on the linear portion of the magnetization curve so as to minimize distortion of the signal recorded; its intensity must necessarily be below that required to produce saturation of the recording medium. Clearly then, the bias field in the record gap of a combination erase-record two gap head could not meet the requirements of an effective erasing field and still properly function as a bias field. In short, we think the conclusion is inescapable that *a "bias field" is not an "erasing field," and an "erasing field" is not a "bias field"* as those terms are ordinarily used in this art. Consequently the heads relied on by Camras do not support the issue counts.

In our opinion, Camras seeks no less than to have us construe counts which clearly call for an erasing head having a pair (or plurality) of gaps with an *erasing* field in *each* gap so that they will cover an erase-record head having a pair of gaps with an erasing field in one gap and a bias field in the second gap, said bias field having a relatively insubstantial demagnetizing effect when the head is used solely for erasing. Such a construction is completely unwarranted.

We note also that even if we were in doubt as to the ordinary meaning of the term "erasing" in this art, we would be compelled here to hold that the term "erasing field" in the counts in issue is not supported by either of Camras' exhibits 4 or 12 (or 17). The record clearly shows that the problem appellee sought to solve by developing those heads is materially different from that which caused him and appellant to develop the two gap erasing head of the issue counts disclosed in the applications here involved. [2] In such a case, the counts are not to be given a construction broader than the invention disclosed in the involved applications so as to read on a prior reduction to practice by one party to which his application was not intended to relate, notwithstanding that the issue counts could reasonably be construed to cover the same. *Chalmers* v. *Romine*, 20 CCPA (Patents) 821, 62 F.2d 622, 16 USPQ 136. The *Chalmers* case involved a problem substantially identical with that before us and is regarded as directly controlling in Clark's favor.

It is noted that the Camras' application was not filed until August 25, 1945. Camras seeks to rely for priority on U. S. Patent No. 2,418,542, filed on January 20, 1944, as a constructive reduction to practice of a head supporting the counts. He also seeks to so rely on an actual reduction to practice of the head of Exhibit 4 which is disclosed and claimed in U. S. Patent No. 2,435,871 (Camras' Exhibit 13), filed August 26, 1944. The involved invention solved an apparently serious problem confronting the art, yet we are unable to find in either of these Camras patents any hint of the problem here solved, or how to solve it. If the combined erase-record heads disclosed in these two Camras patents (upon which heads he seeks to predicate priority) had embodied the invention of the issue counts, it is inconceivable to us that Camras would not have disclosed it in the applications for these patents had he in fact conceived the involved invention and reduced it to practice at that time. *Vreeland* v. *Miller*, 27 CCPA (Patents) 1284, 112 F.2d 829, 46 USPQ 88. The record on the part of Camras is voluminous, and his documentary exhibits are numerous. Yet we find nothing in that record indicating that Camras had any inkling of the two gap erase head invention here involved prior to the earliest effective date to which Clark is entitled. Indeed, after a careful

[1] This language is practically identical with that used by Camras himself in U. S. Patent No. 2,418,542, which is Camras' Exhibit 17, supra.

study of this extensive record, we can only conclude that Camras' whole case is an attempt to establish nunc pro tunc that Exhibits 4, 12 and 17 embody the invention of the issue counts.

One other point remains for consideration. Counsel for Camras urges also in his brief that Camras should be awarded priority because:

> Clark directly acquired knowledge of the Camras multiple gap head from a study of a detailed technical bulletin describing one of such heads sent to Clark's assignee by Camras' assignee, and Clark is therefore not the Inventor.

The bulletin here referred to was introduced in evidence as Camras' Exhibit No. 27. This bulletin, which Clark admits he read, describes the construction and overall characteristics and use of "a combined record-erase head" such as that of physical Exhibit 4, and the related patent of documentary Exhibit 13. The foregoing ground urged by Camras is nothing less than an allegation of derivation of the invention by Clark from Camras. We find nothing in the record to indicate that the question of derivation was raised before the Board. Moreover, even if it were, the question of derivation substantially changes the nature of an interference proceeding, making the essential question one of originality rather than one of priority. Hence it would have been necessary for Camras to cross-appeal from an adverse ruling of the Board on the allegation of derivation. Therefore, it is clear that the question of derivation is not properly before us. However, lest our silence on the question put Clark in an unfavorable light, we may state that we have thoroughly studied the bulletin in question, and we find therein not a scintilla of evidence to support the above allegation of derivation.

[3] In view of the foregoing, we are of the opinion that the Board's construction of the issue counts is completely untenable both in law and in fact. We therefore hold that the counts in issue are not supported by either of Camras' Exhibits 4 or 12 (or 17). Accordingly, Camras has failed to meet his burden of establishing priority of invention and priority is awarded to Clark as to all counts in issue.

For the reasons hereinbefore set out, the decision of the Board is hereby reversed.

REVERSED.

# PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

1,994,950, C. W. Hoffritz, Illuminated dials, D. C., S. D. N. Y., Doc. 64/174, *Charles W. Hoffritz et al.* v. *I. M. Stern et al.* Stipulation and order of dismissal (notice May 28, 1953).

2,174,089, G. W. Lyons, Hatchway, D. C. N. J. (Newark), Doc. 519/51, *George W. Lyons* v. *Construction Specialties, Inc., et al.* Case dismissed (notice June 1, 1953).

2,210,846, 2,316,832, E. Aghnides, Fluid mixing device, filed June 3, 1953, D. C., S. D. N. Y., Doc. 85/272, *Marshall Metal Products, Inc., et al.* v. *E. P. Aghnides.*

2,214,748, E. Mauro, Head protector, filed June 4, 1953, D. C., S. D. N. Y., Doc. 85/280, *E. Mauro* v. *A. G. Spalding & Bros., Inc., et al.*

2,316,832. (See 2,210,846.)

2,422,497, S. E. Noyes, Dental impression composition, D. C., S. D. N. Y., Doc. 72/314, *Dental Perfection Co* v. *Plastodent, Inc.* Stipulation and order of discontinuance (notice May 28, 1953).

2,446,794, R. B. Thornton, Portable fire alarm, filed May 14, 1953, D. C. Mass. (Boston), Doc. 53/546, *R. B. Thornton* v. *Protectolarm, Inc., et al.*

2,456,781, E. F. Hardey, Blower type radiant heater, D. C., N. D. Ill. (Chicago), Doc. 50c556, *The Emerson Electric Mfg. Co.* v. *Chicago Electric Mfg. Co.* Claims 1, 5, and 6 held invalid for lack of invention; no finding is made on defense of non-infringement; judgment for defendant, cause dismissed upon the merits (notice May 29, 1953).

2,480,921, H. F. Hahn, Spraying attachment for centrifugal extractors, filed June 1, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1296, *H. F. Hahn* v. *E. R. Street & Co., Inc.*

2,491,463, L. W. Brooks, Electrical connector fixture; T. M. 234,653, Noma Electric Corp., Christmas tree lighting outfit; T. M. 250,259, same, Xmas tree holders, D. C., N. D. Ill. (Chicago), Doc. 50c1378, *Noma Electric Corp.* v. *Iron Fireman Mfg. Co., Inc., et al.* Stipulation order dismissing cause as to Iron Fireman Mfg. Co., and as to On-A-Lite Corp. without prejudice; and that counterclaim against plaintiff be dismissed with prejudice May 28, 1953.

2,495,579, Ferris & Klancnik, Antenna, filed June 3, 1953, D. C., S. D. N. Y., Doc. 85/264, *Hi-Lo T. V. Antenna Corp.* v. *Delson Mfg. Corp. et al.*

2,515,898, H. W. Rhodehamel, Jr., Procaine penicillin and therapeutic compositions, D. C., S. D. Ind. (Indianapolis), Doc. 3034, *Eli Lilly & Co.* v. *Schenley Laboratories, Inc.* Patent held valid and infringed, injunction granted, case referred to Special Master May 14, 1953.

2,534,205, Newhall & Bridgehall, Apparatus for removing water by capillary action from moist perishables, D. C., S. D. Calif. (Los Angeles), Doc. 14866–Y, *S. C. Johnson & Son, Inc.* v. *Brogdex Co.* Patent held not infringed, complaint dismissed with prejudice as to water eliminators and rollers and dismissed without prejudice as to cross complaint and counterclaim of defendant (notice June 1, 1953).

2,557,627, S. J. Barll, Plural garment hanger, filed June 2, 1953, D. C., S. D. N. Y., Doc. 85/251, *Hobar, Inc.* v. *Berkeley, Industries.*

2,558,467, B. P. Solomon, Pleating device, filed May 28, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1284, *Pleatmaster, Inc.* v. *Plasti-Glo Mfg. Co.*

2,563,529, 2,563,530, F. L. Hawkins, Metal balustrade, filed May 29, 1953, D. C., N. D. Ala. (Birmingham), Doc. 7300, *Dallas Iron & Wire Works, Inc.* v. *Floyd L. Hawkins.*

2,563,530. (See 2,563,529.)



2,568,227, M. W. Federbush, Loose-leaf binder, filed June 3, 1953, D. C., S. D. N. Y., Doc. 85/266, *Federal Loose-Leaf Corp.* v. *New York Loose Leaf Corp.*

2,574,971, H. Heltzer, Highway marking paint containing glass beads, filed May 27, 1953, D. C. Md., Doc. 6633, *Minnesota Mining & Mfg. Co.* v. *Baltimore Paint & Color Works.*

2,604,961, M. P. Koch, Luggage sealing device, D. C., S. D. Calif. (Los Angeles), Doc. 14538–T, *H. Koch & Sons et al.* v. *Hycon Mfg. Co.* Patent held valid and infringed; defendant's counterclaim for Declaratory Judgment dismissed with prejudice (notice June 1, 1953).

2,610,593, M. Wasserman, Skylight construction, filed May 19, 1953, D. C. Mass. (Boston), Doc. 53/580–W, *Bacon Roofing Co.* v. *M. Wasserman.*

2,618,492, O. G. Singer, Anti-skid device for automotive vehicles; 2,633,368, W. Ross, Stabilizer device for vehicles, filed May 26, 1953, D. C., N. D. Ind. (South Bend), Doc. 1481, *Gyro Skid-Control Co., Inc., et al.* v. *Dietrich Products Corp.*

2,633,368. (See 2,618,492.)

Re. 23,282, E. C. Thomson, Electrode system, D. C., S. D. N. Y., Doc. 77/187, *Photoswitch, Inc.* v. *Pilot Marine Corp.* Stipulation of discontinuance June 2, 1953.

Des. 166,955, V. Errico et al., Spectacle frame; Des. 166,956, same, Ornament for spectacle frame parts, filed June 3, 1953, D. C., S. D. N. Y., Doc. 85/269, *Victory Optical Mfg. Co.* v. *Wade Optical Corp.*

Des. 166,956. (See Des. 166,955.)

# TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 103,050, Detroit Fuse & Mfg. Co., Fuses, switches, etc., filed May 29, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1285, *Square D Co.* v. *Dormeyer Industries.*

T. M. 129,781. (See T. M. 396,280.)

T. M. 129,782. (See T. M. 396,280.)

T. M. 234,653. (See 2,491,463.)

T. M. 250,259. (See 2,491,463.)

T. M. 361,202, Swiss Importing Co., Inc., Bath oil and cologne, D. C., S. D. N. Y., Doc. 78/15, *Swiss Pine Importing Co., Inc.* v. *Associated Luxuries, Inc.* Consent judgment adjudging infringement, injunction May 20, 1953.

T. M. 396,280, Sondra Undergarments, Inc., Ladies' underwear; T. M. 129,781, T. M. 129,782, H. B. Mallinson & Co., Inc., Silk piece goods, filed May 29, 1953, D. C., S. D. N. Y., Doc. 85/221, *Sondra Undergarments, Inc.* v. *Burlington Mills Corp.*

T. M. 508,003, American Gas Ass'n, Inc., Heating appliances, etc., filed May 28, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15560–WM, *American Gas Association, Inc.* v. *Thomas G. Crigler et al.*

T. M. 535,122, Kamkap, Inc., Laundry appliances and machines, filed May 22, 1953, D. C., S. D. N. Y., Doc. 85/139, *Kamkop, Inc.* v. *Gimbel Bros., Inc.*

T. M. 549,908, Admiral Corp., Radio receiving sets and parts thereof, etc., filed June 2, 1953, D. C., S. D. N. Y., Doc. 85/253, *Admiral Corp.* v. *Sigma Sewing Machine Co.*

# NOTICES

## Guide for Patent Draftsmen

The Patent Office has published a new edition of the *Guide for Patent Draftsmen.*

This pamphlet may be obtained *only* from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. The price is 15 cents per copy.

T. B. MOBROW,
*Executive Officer.*

July 21, 1953.

## Adjudicated Patents

(D. C. Pa.) Fraver Patent No. 1,903,037, for car heating, cooling, and ventilating means. Claims 1 to 3 *Held* invalid, and claim 1 *Held*, if valid, not infringed. *Fraver* v. *The Studebaker Corporation*, 112 F. Supp. 209; 97 USPQ 291.

(D. C. N. Y.) Emons Patent No. 2,041,638, for a spectacle frame, *Held* invalid. *Ful-Vue Sales Company* v. *American Optical Company*, 112 F. Supp. 35; 96 USPQ 366.

(D. C. S. C.) Rice and Hatch Patent No. 2,337,856, for a process of retarding the corrosion of metal by water, *Held* valid and infringed. *Hall Laboratories, Inc.* v. *The Springs Cotton Mills, Inc.*, 112 F. Supp. 29; 97 USPQ 69.

(D. C. Mass.) Baldanza Design Patent No. 163,556, for a child's toilet seat, *Held* valid and infringed. *Columbia Protektosite Company, Inc.* v. *Great American Plastics Co. et al.*, 112 F. Supp. 39; 97 USPQ 57.

## Concurrent Use Proceeding

[No. 137]

*Egbert Leslie Lantron, his assigns or legal representatives, take notice:*

A concurrent use having been declared by this Office between the application of Mid-West Refineries, Inc., 704 Michigan National Bank Building, Grand Rapids, Michigan, for registration of a trade-mark, and Registration No. 535,124 issued December 26, 1950, to Egbert Leslie Lantron, Box 44, Mesa, Arizona, and the notice of such declaration sent by registered mail to the said Egbert Leslie Lantron, at the said address of record, having been returned by the post office as undeliverable, notice is hereby given that unless said Egbert Leslie Lantron, his assigns or legal representatives, shall enter an appearance therein, within thirty days from the first publication of this order, the concurrent use will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—July 28, 1953.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

July 8, 1953.

## Cancellation Notice

[No. 6064]

*Dixie Dee Dresses Inc., its assigns or legal representatives, take notice:*

A petition for cancellation having been filed in this Office by the Malouf Company, 517 Jackson Street, Dallas, Texas, to effect the cancellation of trade-mark registration of Dixie Dee Dresses Inc., 463 Seventh Avenue, New York, N. Y., No. 502,202 registered September 14, 1948, and the notice of such proceeding sent by registered mail to the said

Dixie Dee Dresses Inc., at the said address having been returned by the Post Office as undeliverable, notice is hereby given that unless Dixie Dee Dresses Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—July 28, 1953.)

THOMAS F. MURPHY.
July 6, 1953. *Assistant Commissioner of Patents.*

## Interference Notice

[No. 4946]

*Paulette Laboratories, Inc., its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of The Armand Company, 124 Des Moines St., Des Moines, Iowa, for registration of a trademark, and Registration No. 306,899 issued October 3, 1933, to Paulette Laboratories, Inc., 791 Gravesend Avenue, Brooklyn, New York, and the notice of such declaration sent by registered mail to the said Paulette Laboratories, Inc. at the said address of record having been returned by the post office as undeliverable, notice is hereby given that unless said Paulette Laboratories, Inc., its assigns or legal representatives, shall enter an appearance thereln, within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—August 11.)

THOMAS F. MURPHY.
July 16, 1953. *Assistant Commissioner of Patents.*

## Disclaimers

2,561,817.—*Norman W. Parker*, Cincinnati, Ohio. AUTOMATIC FREQUENCY CONTROL CIRCUIT. Patent dated July 24, 1951. Disclaimer filed July 10, 1953, by the assignee, *Avco Manufacturing Corporation.*

Hereby enters this disclaimer to claims 5, 6, 7, 10, and 12 of said patent.

2,611,852.—*Milton Eaton*, Shawinigan Falls, Quebec, Canada. ELECTRIC BOILER. Patent dated Sept. 23, 1952. Disclaimer filed July 15, 1953, by the assignee, *The Shawinigan Water and Power Company.*

Hereby enters this disclaimer to claim 12 of said patent.

2,612,226.—*Stephen Crum*, Minneapolis, Minn. ENGINE POWER CONTROL APPARATUS. Patent dated Sept. 30, 1952. Disclaimer filed July 13, 1953, by the assignee, *Minneapolis Honeywell-Regulator Company.*

Hereby enters this disclaimer to claims 4 and 5 of said patent.

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. 1, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,629,626. Sun-Stop Visor Attachment. Patented Feb. 24, 1953. Adjustable attachment for a conventional sun visor for motor vehicles, which is held in the desired angular position by frictional engagement with the visor. A rectangular sheet of resilient material, such as light metal or plastic, has a reinforcing rib spaced from the edge which extends around the perimeter of the sheet. The sheet has an aligned notch at each side edge and is folded upon itself to form a semi-circular shape with spaced legs to embrace a sun visor therebetween. (Owner) V. M. Ziler, 9101 Aqueduct Ave., Sepulveda, Calif. Groups 38—31; 39—81; 40. Reg. No. 51,308.

Pat. 2,632,623. Gas Jet Safety Lock. Patented Mar. 24, 1953. Safety latch for a gas valve of a cooking range, heater, or the like prevents accidental opening of the valve, and also prevents children from opening the valve. The latch consists of a bar having a recess in one side with a clip pivotally mounted on the bar to open and close the recess. When the latch is mounted on a valve, the clip may be swung to closed position to prevent the valve from being opened, and swung to open position to permit the valve to be opened. The latch has an extended fork at one end and an offset apertured extension at the opposite end so that it may be installed on a valve by simply removing and replacing the handle of the valve. The latch may be readily installed on valves now in use without changing parts of the valves. (Owner) Jess W. Colwell, P. O. Box 1082, Texas City, Tex. Group 33—62. Reg. No. 51,309.

Pat. 2,635,685. Combination Window Screen and Blind Attachment. Patented Apr. 21, 1953. The invention relates to a combination accordion-type blind and screen device removably attachable to conventional window constructions. When attached to a lower window frame between its bottom edge and the window sill, the blind elements will prevent the sun's rays from entering the interior of the room while the screen section will permit some light and air to enter the room simultaneously preventing insects from entering the room. The attachment operates collapsibly and extensibly within the space measured off by the open window. The device is so constructed that a stop structure will limit its extensibility. A cable reeved through the blind elements maintains the blind elements in accordion-like arrangement. When the window is closed, the attachment is simultaneously collapsed, occupying an insignificant amount of space. A felt seal is secured to one of the window frames to close the space defined by the parting rail and the sash frames when they are open. (Owner) Frank B. Lichhaber, 928 South Ashland Ave., Chicago, Ill. Group 25—61—62—63. Reg. No. 51,310.

Pat. 2,629,237. Chilled Water Distribution System and Means. Patented Feb. 24, 1953. In this distribution system, which includes a number of bubbler drinking stations, refrigerated water from a central refrigerating plant and unrefrigerated water are mixed in a conventional three-way valve blender adjacent each station for delivery of cooled water. The refrigerated water is pumped in a branch line through one inlet into the blender. The unrefrigerated water passes into the inner receptacle of a jacketed supply tank and thence through a second inlet into the blender. A controlled bleeder pipe continuously conducts blended water from the outlet pipe back into the second inlet pipe. This continuous bleeding insures that when the bubbler valve is opened after a period of non-use the water will not have been warmed by standing. Another feature is that the cool waste water from the bowl is piped into the jacket of the supply tank and around the tank's supply pipe, before being drained away. This arrangement utilizes the refrigeration of the waste water to provide a certain amount of precooling of the supply water. The system is also adaptable for use in washing photographic film and other elements in industry. (Owner) Mrs. Wilma P. Carnes, 5471 Village Green, Los Angeles 16, Calif. Group 35—84. Reg. No. 51,311.

Pat. 2,614,654. Automotive Air Vent Filter Attachment. Patented Oct. 21, 1952. Filter attachment for standard air intake assemblies of automobiles in which the air intake assemblies are of the type having a pair of air intake ducts provided with air scoops at the outer ends with filtering screens secured to the front of the scoops. Two of the filter attachments may be removably secured to the scoops in abutting engagement with the screens to effectively remove dust, dirt, insects, moisture, and other foreign matter from the incoming air before the air passes through the air intake assembly into the interior of the vehicle. The filter attachments are so designed that they may be readily installed and removed for replacement or cleaning. (Owner) Keith I. Strinden, Litchville, N. Dak. Group 38—31. Reg. No. 51,312.

Pat. 2,615,494. Collapsible Chair-Stick. Patented Oct. 28, 1952. A chair which is easily collapsed into a walking stick. Four corner arms diverge upward from a central block to support a flexible seat, and four legs diverge downward, the lower end of each arm and the upper end of a corresponding leg being pivoted on a pin extending through an opening in the block, with outward movement limited by abutments. Parallel bracing structures are pivoted intermediate the ends of the arms and of the legs. Securing rings are received on the upper ends of the arms, one permanently. A rectangular flexible seat with notched corners has each edge stitched to form a tube through which a cable is disposed and connected to the securing rings. For collapsing, three rings are detached, and arms and legs are pivoted inward. The seat is snap-fastened around the arms, and two lower rings slipped over a hook provided on one leg, thus forming a walking stick. (Owner) Anthony Claramella, 261 East 201st St., Bronx 58, N. Y. Groups 25—19; 34—41; 39—95. Reg. No. 51,313.

Talon, Inc. offers the 86 patents listed below for non-exclusive licensing on reasonable terms. Applications for licenses may be addressed to: R. E. Meech, Talon, Inc., Meadville, Pa.

The following 80 patents relate to: Separable interlocking slide fasteners of the type commonly known as "zippers"; methods and apparatus for manufacturing and assembling the fastener elements on flexible carrier tapes and for applying the fasteners to garments and other articles; and various types of garments and other articles in which the fasteners are incorporated. Groups 35—83; 39—99.

Pat. 2,057,126. Slider for Fasteners. Oct. 13, 1936. Reg. No. 51,314.

Pat. 2,061,680. Separable Fastener. Nov. 24, 1936. Reg. No. 51,315.

Pat. 2,061,681. Slide Fastener. Nov. 24, 1936. Reg. No. 51,316.

Pat. 2,061,682. Slide Fastener. Nov. 24, 1936. Reg. No. 51,317.

Pat. 2,061,683. Separable Fastener. Nov. 24, 1936. Reg. No. 51,318.

Pat. 2,065,250. Slider. Dec. 22, 1936. Reg. No. 51,319.

Pat. 2,066,059. Separable Fastener. Dec. 29, 1936. Reg. No. 51,320.

Pat. 2,066,060. Separable Interlocking Fastener. Dec. 29, 1936. Reg. No. 51,321.

Pat. 2,066,061. Slider for Slide Fasteners. Dec. 29, 1936. Reg. No. 51,322.

Pat. 2,066,062. Separable Fastener. Dec. 29, 1936. Reg. No. 51,323.

Pat. 2,068,354. Separable Fastener. Jan. 19, 1937. Reg. No. 51,324.

Pat. 2,068,359. Separable Fastener. Jan. 19, 1937. Reg. No. 51,325.

Pat. 2,074,369. Flexible Fastener. Mar. 23, 1937. Reg. No. 51,326.

Pat. 2,075,762. Separable Interlocking Fastener and Method of Making Same. Mar. 30, 1937. Reg. No. 51,327.

Pat. 2,075,763. Separable Interlocking Fastener and Method of Making Same. Mar. 30, 1937. Reg. No. 51,328.

Pat. 2,076,501. Top Stop for Separable Fasteners. Apr. 6, 1937. Reg. No. 51,329.

Pat. 2,077,350. Multiple Interlocking Fastener. Apr. 13, 1937. Reg. No. 51,330.

Pat. 2,077,360. Separable Fastener. Apr. 13, 1937. Reg. No. 51,331.

Pat. 2,078,016. Method of Forming Interlocking Members for Separable Fasteners. Apr. 20, 1937. Reg. No. 51,332.

Pat. 2,078,874. Closure. Apr. 27, 1937. Reg. No. 51,333.

Pat. 2,078,889. Slide Fastener. Apr. 27, 1937. Reg. No. 51,334.

Pat. 2,079,722. Method of Making Separable Fastener Sliders. May 11, 1937. Reg. No. 51,335.

Pat. 2,079,817. Loose Leaf Book. May 11, 1937. Reg. No. 51,336.

Pat. 2,080,984. Apparatus for Attaching Fasteners. May 18, 1937. Reg. No. 51,337.

Pat. 2,082,619. Separable Fastener. June 1, 1937. Reg. No. 51,338.

Pat. 2,083,278. Separable Interlocking Fastener. June 8, 1937. Reg. No. 51,339.

Pat. 2,083,279. Sliding Fastener. June 8, 1937. Reg. No. 51,340.

Pat. 2,083,930. Machine for Smoothing Fasteners. June 15, 1937. Reg. No. 51,341.

Pat. 2,087,456. Separable Interlocking Fastener. July 20, 1937. Reg. No. 51,342.

Pat. 2,089,922. Interlocking Slide Fastener. Aug. 10, 1937. Reg. No. 51,343.

Pat. 2,091,617. Method of Manufacturing Separable Interlocking Fasteners. Aug. 31, 1937. Reg. No. 51,344.

Pat. 2,092,538. Slide Fastener. Sept. 7, 1937. Reg. No. 51,345.

Pat. 2,093,792. Garment. Sept. 21, 1937. Reg. No. 51,346.

Pat. 2,095,209. Method of Making Slide Fasteners. Oct. 5, 1937. Reg. No. 51,347.

Pat. 2,095,458. Method of Manufacturing Separable Interlocking Fasteners. Oct. 12, 1937. Reg. No. 51,348.

Pat. 2,096,680. Slider for Slide Fasteners. Oct. 19, 1937. Reg. No. 51,349.

Pat. 2,098,338. Separable Fastener. Nov. 9, 1937. Reg. No. 51,350.

Pat. 2,098,651. Method of Making Separable Fasteners. Nov. 9, 1937. Reg. No. 51,351.

Pat. 2,100,557. Separable Fastener. Nov. 30, 1937. Reg. No. 51,352.

Pat. 2,103,985. Trousers and Method of Making the Same. Dec. 28, 1937. Reg. No. 51,353.

Pat. 2,106,129. Method of Making Separable Fasteners. Jan. 18, 1938. Reg. No. 51,354.

Pat. 2,108,185. Slider for Fasteners. Feb. 15, 1938. Reg. No. 51,355.

Pat. 2,110,740. Fastening Device. Mar. 8, 1938. Reg. No. 51,356.

Pat. 2,111,729. Slide Fastener. Mar. 22, 1938. Reg. No. 51,357.

Pat. 2,116,547. Making Slide Fasteners. May 10, 1938. Reg. No. 51,358.

Pat. 2,124,079. Method and Means for Applying Slide Fasteners to Articles. July 19, 1938. Reg. No. 51,359.

Pat. 2,127,839. Separable Interlocking Fastener and Method of Making the Same. Aug. 23, 1938. Reg. No. 51,360.

Pat. 2,129,444. Machine for Forming Separable Fasteners. Sept. 6, 1938. Reg. No. 51,361.

Pat. 2,130,932. Method of Making Separable Interlocking Fasteners. Sept. 20, 1938. Reg. No. 51,362.

Pat. 2,131,250. Sewing Machine. Sept. 27, 1938. Reg. No. 51,363.

Pat. 2,140,463. Method of Manufacturing Separable Interlocking Fasteners. Dec. 13, 1938. Reg. No. 51,364.

Pat. 2,148,757. Detachable Ornament. Feb. 28, 1939. Reg. No. 51,365.

Pat. 2,151,346. Sewing Machine. Mar. 21, 1939. Reg. No. 51,366.

Pat. 2,155,795. Method of Making Garment Closures. Apr. 25, 1939. Reg. No. 51,367.

Pat. 2,160,364. Slide Fastener. May 30, 1939. Reg. No. 51,368.

Pat. 2,162,697. Garment. June 20, 1939. Reg. No. 51,369.

Pat. 2,166,088. Garment. July 11, 1939. Reg. No. 51,370.

Pat. 2,166,092. Trouser Fly Construction. July 11, 1939. Reg. No. 51,371.

Pat. 2,166,350. Device and Method for Attaching Continuous Zipper or Slide Fastener Tapes to Continuous Strips of Fabric. July 18, 1939. Reg. No. 51,372.

Pat. 2,169,177. Method of Manufacturing Separable Fasteners. Aug. 8, 1939. Reg. No. 51,373.

Pat. 2,171,455. Slider for Hookless Fasteners. Aug. 29, 1939. Reg. No. 51,374.

Pat. 2,173,704. Jacket. Sept. 19, 1939. Reg. No. 51,375.

Pat. 2,177,344. Slide Fastener. Oct. 24, 1939. Reg. No. 51,376.

Pat. 2,193,761. Slider for Separable Fasteners. Mar. 12, 1940. Reg. No. 51,377.

Pat. 2,198,577. Garment. Apr. 23, 1940. Reg. No. 51,378.

Pat. 2,199,029. Slide Fastened Article. Apr. 30, 1940. Reg. No. 51,379.

Pat. 2,217,885. Garment. Oct. 15, 1940. Reg. No. 51,380.

Pat. 2,228,036. Slide Fastened Trouser Fly Construction. Jan. 7, 1941. Reg. No. 51,381.

Pat. 2,239,074. Jacket. Apr. 22, 1941. Reg. No. 51,382.

Pat. 2,260,372. Slide-Fastened Knitted Cuff Closure. Oct. 28, 1941. Reg. No. 51,383.

Pat. 2,260,426. Jacket. Oct. 28, 1941. Reg. No. 51,384.

Pat. 2,277,832. Slide Fastened Trouser Fly Construction. Mar. 31, 1942. Reg. No. 51,385.

Pat. 2,283,642. Slide Fastened Closure Construction for Sheer Garments. May 19, 1942. Reg. No. 51,386.

Pat. 2,292,347. Garment Construction. Aug. 11, 1942. Reg. No. 51,387.

Pat. 2,292,348. Adjustable Jacket. Aug. 11, 1942. Reg. No. 51,388.

Pat. 2,299,947. Garment Construction. Oct. 27, 1942. Reg. No. 51,389.

Pat. 2,302,735. Garment Construction. Nov. 24, 1942. Reg. No. 51,390.

Pat. 2,327,979. Lined Garment. Aug. 31, 1943. Reg. No. 51,391.

Pat. 2,328,184. Garment Construction. Aug. 31, 1943. Reg. No. 51,392.

Pat. 2,593,795. Pocket Concealed Placket Construction. Apr. 22, 1952. Reg. No. 51,393.

The following 4 patents relate to separable slide fasteners of the type comprising a flexible track having a series of spaced-apart generally spherical stops or the like supported in a flexible manner, and a cooperating slide member which is movable along the track and is adapted to be locked selectively in various adjusted positions on the track. Group 39—99.

Pat. 2,245,255. Adjustable Fastening Device. June 10, 1941. Reg. No. 51,394.

Pat. 2,343,826. Adjustable Fastening Device. Mar. 7, 1944. Reg. No. 51,395.

Pat. 2,343,827. Method of Making Adjustable Fastening Devices. Mar. 7, 1944. Reg. No. 51,396.

Pat. 2,441,377. Adjustable Fastener. May 11, 1948. Reg. No. 51,397.

The following 2 patents relate to sewing machines for attaching snap fastener elements to a tape or other flexible carrier. Group 35—83.

Pat. 2,605,726. Means for Sewing Snap Fastener Tape. Aug. 5, 1952. Reg. No. 51,398.

Pat. 2,613,835. Machine for Attaching Snap Fasteners to Tape and the Like. Oct. 14, 1952. Reg. No. 51,399.

### Patent Removed from Register

Pat. 2,135,170. Shoe and Method of Making the Same. This patent, which was listed by United Shoe Machinery Corporation in the *Register* section of the OFFICIAL GAZETTE, Aug. 19, 1947, has been assigned.

# TRADE-MARKS

## OFFICIAL GAZETTE, AUGUST 11, 1953

[VOL. 673. NO. 2]

## ACT OF 1946

**The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.6.**

**As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.**

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 633,561. Textile Fiber Corporation, St. Louis, Mo. Filed Aug. 6, 1952.

**TEXFLUFF**

For Shredded Textile Fibers.
Claims use since Aug. 22, 1951

### CLASS 2

### RECEPTACLES

Ser. No. 615,787. Nell November, Richmond, Va. Filed June 27, 1951.

**MARKEE**

For Pasteboard Boxes and Cartons.
Claims use since June 6, 1951.

### CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 633,859. The Osborne Company, Clifton, N. J. Filed Aug. 13, 1952.

***Friendly Advertising***

Exclusive right to the word "Advertising" apart from the mark as shown is hereby disclaimed.
For Wallets, Billfolds, Key Holders, and Portfolios.
Claims use since April 1907.

### CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 566,638. Monsanto Chemical Company, St. Louis, Mo. Filed Oct. 7, 1948.

**LUSTRON**

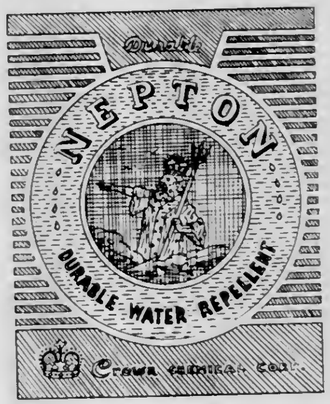
For Synthetic Resins in Solution and Emulsion Forms for Impregnating, Sizing, or Waterproofing Paper, Textiles, or Composition Sheet Material.
Claims use since July 14, 1948.

Ser. No. 629,922. Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J. Filed May 19, 1952. (Sec. 2f.)

**VINELAND**

For Potassium Permanganate, a Quaternary Ammonium Compound Used as a Germicide, Disinfectant, Antiseptic, and Deodorant, Ammonia Water, Formaldehyde Rodenticide, and Coal Tar and Pine Oil Disinfectants.
Claims use since 1935.

Ser. No. 634,075. Crown Chemical Corporation, Providence, R. I. Filed Aug. 18, 1952.




The words "Durable," "Durable Water Repellent," and "Chemical Corp." are disclaimed apart from the mark as shown. The drawing is lined for green, gray, and black.
For Chemical Water Repellent for Fabric Treatment.
Claims use since June 17, 1952.

Ser. No. 638,309. Robert Everett Olson, San Antonio, Tex. Filed Nov. 19, 1952.

**MOTALOY**

For Metal Surface Treating Compositions in Powder or Pellet Form.
Claims use since Feb. 10, 1952.

Ser. No. 638,683. Arizona Chemical Company, New York, N. Y. Filed Nov. 28, 1952.

## ACINTOL

Applicant claims ownership of Registration No. 546,338.
For Tall Oil Fatty Acid.
Claims use since May 11, 1950.

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Ser. No. 642,405. James R. Funk, doing business as The Gem Gleam Company, Colorado Springs, Colo. Filed Feb. 18, 1953.

Ever-Gleam

No claim is made to the word "Gleam" apart from the mark as shown on the drawing.
For Chemical Preparation in Liquid Form for Use in Preventing Tarnish in Silver and Other Valuable Ornamental Metals.
Claims use since Jan. 1, 1952.

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### CLASS 8

### SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 630,648. Marcel Quercia, Paris, France. Filed May 24, 1952.

## BUTABLOC

Applicant claims ownership of French Registration No. 417,583, dated Jan. 31, 1952.
For Cigar and/or Cigarette Lighters, Especially Pyrophoric Lighters and Their Parts.

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### CLASS 10

### FERTILIZERS

Ser. No. 643,063. American Bildrok Company, Chicago, Ill. Filed Mar. 4, 1953.

Red Ribbon

For Mineral Body of Porous, Cellular, Finely-Divided, Inert, Sponge-Like Material for Conditioning the Soil.
Claims use since Jan. 9, 1953.

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### CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 611,702. International Business Machines Corporation, New York, N. Y. Filed Mar. 23, 1951.

## ELECTROGRAPHIC

Applicant claims ownership of Registration No. 533,648.
For Ink-Filled Cartridges for Writing Pens.
Claims use since Mar. 21, 1950.

Ser. No. 625,843. Bowers Printing Ink Company, Chicago, Ill. Filed Mar. 3, 1952.

## FASET

For Printing and Lithographic Inks.
Claims use since Feb. 15, 1950.

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Ser. No. 639,344. Sun Chemical Corporation, Long Island City, N. Y. Filed Dec. 11, 1952. (Sec. 2f.)

## DULLSET

Applicant claims ownership of Registration No. 276,679.
For Printing Inks.
Claims use since July 25, 1929.

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### CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 624,276. William J. Kiser, doing business as Vulcancraft Fabricating Company, Birmingham, Ala. Filed Jan. 30, 1952.

Vulcancraft

For the Following Articles of Iron, Steel, or Other Metals: Ornamental Railings, Window Grilles, Fire Escapes, Mail Box Standards, Door Grilles, Architectural Iron Used for Interior and Exterior Building Trim and Structural Steel Used as Columns, Beams, Trusses or Assembled Frames Made From Steel Angles, Steel Beams or Steel Plates.
Claims use since Nov. 1, 1950.

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Ser. No. 625,321. Bar-Gar Mineral Plastic Products Co., Inc., Sioux Falls, S. Dak. Filed Feb. 1, 1952.

BAR-GAR

The mark comprises the arbitrary word "Bar-Gar" printed in fancy letters.
For Blast Furnace Blocks, Foundation Blocks for Buildings, Blocks for Bridge Abutments, Railroad Ballast, Highway Ballast, Riprap Slabs, and Road-Topping, the Blocks Being Solid and of Various Shapes and Sizes and Made of a Molding Composition Containing Polystyrene and Crushed Quartz as a Filler, and the Ballast and Topping Being in the Form of Broken Stone and Made by Crushing Said Composition After It Has Hardened.
Claims use since Sept. 29, 1951.

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Ser. No. 627,145. Nox-Rust Chemical Corporation, Chicago, Ill. Filed Mar. 27, 1952.

SOUNDEX

For Undercoating and Sound-Deadening Material for Automobiles and Trucks.
Claims use since Dec. 11, 1951.



Ser. No. 630,112. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed May 23, 1952.

## SILAMENT

For Ingredients Comprising a Silica Aggregate and a Sodium Silicate Solution and Used for Making a Silicate Cement.
Claims use since Apr. 28, 1952.

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Ser. No. 631,582. Stephen N. Stroub, doing business as Stroub Products, Totowa Borough, N. J., assignor to Stroub Products Co., Inc., Totowa Borough, N. J. Filed June 21, 1952.

## STROCO

For Finely-Divided Cementitious Solid Material Suitable When Admixed With Water for Sealing Openings and Joints and for Filling Holes and Cracks in Wood, Masonry, Porcelain, and the Like.
Claims use since Apr. 4, 1952.

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Ser. No. 634,582. Fleming & Sons, Inc., Dallas, Tex. Filed Aug. 28, 1952.

## KORROLINER

For Decorative Panel Boards of Paper Base Material.
Claims use since Nov. 19, 1951.

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Ser. No. 636,974. Ed Fountain Lumber Co., Los Angeles, Calif. Filed Oct. 22, 1952.

LAM LOC

The element "Loc" is disclaimed apart from the mark.
For Glued Laminated Lumber.
Claims use since June 24, 1952.

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Ser. No. 638,987. United States Plywood Corporation, New York, N. Y. Filed Dec. 4, 1952.

## MARDI GRAS

For Plastic Laminates, With or Without a Backing, in the Form of Sheets and Panels for Walls, Elevator Cabs, Show Cases, Kitchen Counters, Sink Tops, Soda Fountain, Lunch and Bar Tops, and for Other Building and Construction Purposes.
Claims use since Nov. 11, 1952.

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Ser. No. 639,218. The Flintkote Company, New York, N. Y. Filed Dec. 9, 1952.

## CEIL-DEK

The term "Dek" is disclaimed apart from the mark as shown.
For Insulation Board for Roof Sheathing.
Claims use since Aug. 23, 1952.

Ser. No. 639,481. The Little-Beaver Co., Baltimore, Md. Filed Dec. 15, 1952.




The lining in the drawing is employed to indicate the use of shading.
For Storm Windows and Storm Doors.
Claims use since Sept. 21, 1951.

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Ser. No. 640,754. Pittsburgh Plate Glass Company, Pittsburgh, Pa. Filed Jan. 14, 1953.

## TWINDOWELD

Applicant claims ownership of Registration No. 424,237.
For Double Glazed Windows.
Claims use since July 29, 1952.

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### CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 625,666. Eastern Rotorcraft Corporation, Neshaminy, Pa. Filed Feb. 28, 1952.

## TYZEM

For Cargo Securing Devices Consisting Primarily of Cargo-Lashing Elements, Slack Take-Up Devices Therefor, and Fastening Members.
Claims use since at least as early as October 1950.

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Ser. No. 626,299. Breeze Corporations, Inc., Newark, N. J. Filed Mar. 12, 1952.

## BELLMET

For Bellows Made of Welded Diaphragm Segments and Employed in the Interconnecting of Fuel Lines, Electrical Conduits, Torque Tubes, Fluid Drives, and the Like.
Claims use since Feb. 13, 1952.

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Ser. No. 631,926. Handley Brown Heater Company, Jackson, Mich. Filed June 28, 1952.

## POLY-TROL

For Pressure Responsive Automatic Cut-Off Valves for Controlling Fluid Flow.
Claims use since on or about Mar. 22, 1952.

Ser. No. 632,822. Bardco Manufacturing & Sales Company, Los Angeles, Calif. Filed July 21, 1952. (Sec. 2f as to the word "Snow.")




The lining is for gold.
For Gates and Valves and Parts Thereof for Industrial Irrigation and Sewage Purposes.
Claims use since 1905.

Ser. No. 635,936. Standard Pressed Steel Co., Jenkintown, Pa. Filed Sept. 29, 1952.

SPS

Applicant claims ownership of Registration No. 563,099.
For Metal Dowel Pins, Self-Locking Nuts, Internal Wrenching Nuts, External Wrenching Nuts, Hollow Set Screws, Socket Head Cap Screws, Socket Head Stripper Bolts, Flat Head Socket Cap Screws, Button Head Socket Cap Screws, Square Head Set Screws, and Pressure Plugs.
Claims use since Mar. 29, 1940.

Ser. No. 638,256. Gas Material Supplies, Inc., West New York, N. J. Filed Nov. 18, 1952.

GMS

For Metal Pipes, Metal Pipe Couplings, and Gas Valves.
Claims use since June 15, 1952.

Ser. No. 640,585. Sears, Roebuck and Co., Chicago, Ill. Filed Jan. 9, 1953.

COLD SPOT

For Food Bag or Carton Filler (Consisting of a Stand, Column, and Adjustable Food Funnel).
Claims use since on or about July 1946.

Ser. No. 640,877. Wittek Manufacturing Co., Chicago, Ill. Filed Jan. 16, 1953. (Sec. 2f.)

WITTEK

For Hose Clamps.
Claims use since on or about November 1927.

Ser. No. 641,591. Aerosmith, Inc., Miami, Fla. Filed Feb. 2, 1953.

SKY-LOC

Applicant makes no claim to the exclusive use of the term "Loc," apart from the other features of the trademark shown in the drawing.
For Locking Socket for Releasably Locking the Legs of Airplane Seats to the Floor.
Claims use since Nov. 1, 1951.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 619,228. The Carpenter Steel Company, Reading, Pa. Filed Sept. 26, 1951. (Sec. 2f.)

Carpenter

AIR-HARD

The word "Hard" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 512,195.
For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.
Claims use since May 27, 1936.

Ser. No. 626,469. Penetred Corporation, Marshfield, Wis. Filed Mar. 14, 1952.

THERMODUCTOR

For Wire Skid Control Coils for Use in the Tire Industry.
Claims use since October 1951.

Ser. No. 637,700. The Canton Chaplet and Manufacturing Company, Canton, Ohio. Filed Nov. 6, 1952.

FUSERT

Applicant claims ownership of Registration No. 560,121.
For Foundry Shrinkage Control Elements—Namely, Metal Inserts Which Are Positioned so as To Project Into a Casting Mold Cavity Prior to Introducing Molten Metal Therein.
Claims use since Oct. 14, 1952.



## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 595,280. Prismo Safety Corporation, Huntingdon, Pa. Filed Apr. 5, 1950.




The stippling on the drawing is for shading purposes.
Applicant claims ownership of Registration No. 566,232.
For Highway Marker Coating Material Consisting of a Paint-Like Binder and Glass Spheres Adapted To Be Associated With Each Other After Application and Mixed Prior to Application.
Claims use since June 1943.

Ser. No. 629,661. General Paint Corporation, San Francisco, Calif. Filed May 14, 1952.

PRONTO

For Industrial and Automotive Enamels.
Claims use since 1920.

Ser. No. 636,120. The Dehevnise Company, Brooklyn, N. Y. Filed Oct. 3, 1952.




The words "Metal Paint" are disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 113,949.
For Paints, Particularly for Coating Metal.
Claims use since May 1, 1916.

Ser. No. 638,277. The Verflex Co., Inc., Carlstadt, N. J. Filed Nov. 18, 1952.

VER - A - SIL

For Silicone Coating Solution for Rendering Surfaces Water Repellant.
Claims use since Nov. 11, 1951.

Ser. No. 638,278. The Verflex Co., Inc., Carlstadt, N. J. Filed Nov. 18, 1952.

VER - A - SPRAY

The term "Spray" is disclaimed apart from the mark as shown.
For Paint.
Claims use since May 12, 1952.

Ser. No. 639,927. M. Ewing Fox Co., Inc., New York, N. Y. Filed Dec. 23, 1952.

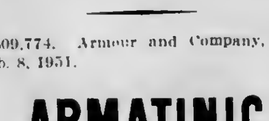
Velmode

For Rubber Base Paint.
Claims use since Apr. 2, 1952.

## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 550,879. United States Tobacco Company, Flemington, N. J., and New York, N. Y. Filed Feb. 28, 1948. (Sec. 2f.)




The word "Cut" and the tobacco leaf are disclaimed apart from the mark as shown.
For Chewing Tobacco.
Claims use since Feb. 24, 1919.

## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 603,267. Taft Pharmaceutical Company, Incorporated, New Haven, Conn. Filed Sept. 7, 1950.

DUGRAVET

For Food Ingredient in the Form of a Powder To Be Mixed With Regular Food of Horses, Dogs, and Other Animals and Containing Proteins, Vitamins, and Minerals To Supplement Their Diet.
Claims use since on or about May 1, 1950.

Ser. No. 609,219. J. B. Roerig and Company, Chicago, Ill. Filed Dec. 28, 1950.

AM PLUS

For Medicinal Preparation Containing Dextroamphetamine Sulfate, Minerals, and Vitamins.
Claims use since Oct. 18, 1950.

Ser. No. 609,774. Armour and Company, Chicago, Ill. Filed Feb. 8, 1951.

ARMATINIC

For Granules Containing Liver, Iron, and Folic Acid.
Claims use since Jan. 24, 1951.

Ser. No. 609,793. Charles E. Frosst & Co., Montreal, Quebec, Canada. Filed Feb. 8, 1951.

## TRULFALIN

Priority under Sec. 44(d). Canadian application filed Jan. 6, 1951, Registration No. N. S. 37,292, dated Jan. 6, 1951. Applicant claims ownership of Registration No. 552,543.

For Pharmaceutical Preparation—Namely, a Bacteriostatic Preparation Containing Two or More Sulphonamides and Penicillin.

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Ser. No. 618,905. George T. Morgan, doing business as Nu-Ay Pile Compound Co., Sharon, Pa. Filed Aug. 10, 1951. (Sec. 2f as to "New Way.")

THE NU-AY PILE NEW WAY COMPOUND CO.

Applicant makes no claim to the exclusive use of the words "Pile Compound" except in the form and arrangement shown in the drawing. Applicant claims ownership of Registration No. 315,510.

For Medical Preparation for the Treatment and Relief of Piles.

Claims use since Feb. 10, 1934.

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Ser. No. 627,498. Cutter Laboratories, Berkeley, Calif. Filed Apr. 3, 1952.

## Ambot

Applicant claims ownership of Registration No. 254,671.

For Parenteral Solutions of Electrolytes, Pharmaceuticals, or Sugars in Water for Injection.

Claims use since Mar. 26, 1929.

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Ser. No. 628,870. Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Filed Apr. 29, 1952.

## CANDICILLIN

For Penicillin-Baritracin Troches.

Claims use since Apr. 3, 1952.

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Ser. No. 629,414. Austin Laboratories, Inc., Buffalo, N. Y. Filed May 9, 1952.

## STREPTAZINE

For Tablets Combining Various Sulfa Drugs With Streptomycin for the Prevention and Treatment of Calf Scours and Enteric Conditions.

Claims use since Feb. 14, 1952.

Ser. No. 631,391. International Minerals & Chemical Corporation, Chicago, Ill. Filed June 2, 1952.

## MC-47

For Water Soluble Nitrogenous Fraction of Sugar Beet Juice, Including Betaine, Used as an Animal Feed Supplement.

Claims use since Feb. 14, 1950.

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Ser. No. 633,806. The Wander Company, Chicago, Ill. Filed Aug. 12, 1952.

## DIMERCULIN

For Ampoule Containing Mersalyl and Theophylline.

Claims use since May 18, 1949.

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Ser. No. 635,869. The Blood Grouping Laboratory of Boston, Inc., Boston, Mass. Filed Sept. 27, 1952.

BGL

For Blood Grouping Serums.

Claims use since on or about Aug. 26, 1952.

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Ser. No. 637,226. Daniel W. Young, Pine Bluff, Ark. Filed Oct. 27, 1952.

GEE-KO-DAN

For Garlic Compound Tablets, Used as a Carminative.

Claims use since June 1933.

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Ser. No. 638,120. The Bauer Chemical Company, Inc., Locust Valley, N. Y. Filed Nov. 13, 1952.

## LITE-VAPA

For Combination of Benzoin, Oil of Eucalyptus, Oil of Pine Needles, Menthol, and Camphor in the Form of a Solution or emulsion for Medicinal Use in a Vaporizer or as a Nose-Drop for the Relief of Discomfort of Common Colds, Sinus Conditions, Post Nasal Drips, Hay Fever, and Asthma.

Claims use since Mar. 6, 1952.

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Ser. No. 638,939. Armour and Company, Chicago, Ill. Filed Dec. 4, 1952.

## ARMAZIDE

For Isonicotinic Acid Hydrazide Used for the Treatment of Tuberculosis.

Claims use since Apr. 4, 1952.



Ser. No. 638,943. Armour and Company, Chicago, Ill. Filed Dec. 4, 1952.

## MODIFERRATE

For Pharmaceutical Preparation Containing Iron and Duodenum Powder.

Claims use since Aug. 13, 1952.

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Ser. No. 638,944. Armour and Company, Chicago, Ill. Filed Dec. 4, 1952.

## THYTROPAR

For Thyrotropic Hormone Preparation.

Claims use since Aug. 1, 1952.

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Ser. No. 639,303. Allied Laboratories, Inc., Kansas City, Mo. Filed Dec. 11, 1952.

## DUO-SERA D-H

The word "Sera" is disclaimed apart from the mark as shown.

For Serum for the Control of Canine and Fox Distemper, Infectious Canine Hepatitis, and Fox Encephalitis.

Claims use since Aug. 14, 1951.

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Ser. No. 639,713. Parke, Davis & Company, Detroit, Mich. Filed Dec. 18, 1952.

## CAMOFORM

Applicant claims ownership of Registration No. 500,228.

For Chemo-Therapeutic Agent Useful in the Treatment of Protozoan Disease Including Amebic Dysentery and Malaria and Other Infectious Diseases Caused by Bacteria and Virus.

Claims use since Sept. 25, 1952.

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Ser. No. 640,758. Reclu Sales Company, Vancouver, British Columbia, Canada. Filed Jan. 14, 1953.

## RECLU

For Pharmaceutical Preparation Used for Relief of Hyperacidity of the Stomach and Gas on the Stomach.

Claims use since Nov. 1, 1951.

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Ser. No. 641,906. Casimir Funk Laboratories, Inc., New York, N. Y. Filed Feb. 9, 1953.

## vi-andro

For Preparation Comprising in Combination Androgenic Hormones With Multivitamins for Oral and Parenteral Administration for Prophylaxis and Treatment of Conditions Associated With Vitamin and Male Hormone Deficiencies.

Claims use since Feb. 23, 1951.

Ser. No. 641,907. Casimir Funk Laboratories, Inc., New York, N. Y. Filed Feb. 9, 1953.

## vi-estandro

For Preparation Comprising in Combination a Mixture of Estrogenic and Androgenic Hormones With Multivitamins for Oral and Parenteral Administration for Prophylaxis and Treatment of Conditions Associated With Vitamin and Male and Female Hormone Deficiencies.

Claims use since Jan. 21, 1953.

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Ser. No. 641,908. Casimir Funk Laboratories, Inc., New York, N. Y. Filed Feb. 9, 1953.

## vi-estryn

For Preparation Comprising in Combination Estrogenic Hormones With Multivitamins for Oral and Parenteral Administration for Prophylaxis and Treatment of Conditions Associated With Vitamin and Female Hormone Deficiencies.

Claims use since Jan. 21, 1953.

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Ser. No. 642,118. Abbott Laboratories, North Chicago, Ill. Filed Feb. 12, 1953.

## VERCLYSYL

For Medicinal Preparation in Liquid Form for Replacing Body Fluids and Supplying Necessary Vitamins by Venoclysis.

Claims use since Jan. 30, 1953.

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Ser. No. 642,135. Foley & Company, Chicago, Ill. Filed Feb. 12, 1953.

## CRY-NOT

For Diaper Rash Ointment.

Claims use since Jan. 4, 1952.

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Ser. No. 642,171. Waldo Scardapane, doing business as Salex Laboratories, Millerton, N. Y. Filed Feb. 12, 1953.

## CORISOL

For Medicinal Preparation Indicated for the Treatment of Corns, Callouses, and Warts.

Claims use since Dec. 15, 1952.

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Ser. No. 642,252. Abbott Laboratories, North Chicago, Ill. Filed Feb. 16, 1953.

## IONOSOL

For Line of Injectable Mineral Salt, Alcohol, and Glucose Solutions for Maintaining Fluid and Electrolyte Balance.

Claims use since Jan. 30, 1953.

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Ser. No. 642,593. American Ferment Co., Inc., New York, N. Y. Filed Feb. 24, 1953.

## FALGOS

For Analgesic Preparation.

Claims use since Feb. 2, 1953.

Ser. No. 642,638. Heyden Chemical Corporation, New York, N. Y. Filed Feb. 24, 1953.

PRO-K-MYCIN

For Antibiotic Mixtures.
Claims use since on or about Feb. 5, 1953.

Ser. No. 642,896. Parke, Davis & Company, Detroit, Mich. Filed Feb. 27, 1953.

CHLOROSTREP

For Multiple Antibiotic Preparation.
Claims use since Feb. 2, 1953.

Ser. No. 642,925. Adweyt Company, Chicago, Ill. Filed Mar. 2, 1953.

ADWEYT

For Oral Lipid Emulsion for Supplementing Caloric Intake and Aiding in Lipoid Absorption.
Claims use since Mar. 10, 1952.

## CLASS 19

## VEHICLES

Ser. No. 635,937. Standard Pressed Steel Co., Jenkintown, Pa. Filed Sept. 29, 1952.

SPS

For Portable Carts, Packing Plant Trucks, Hand Trucks, Platform Trucks, and Wheels and Casters for Floor Trucks.
Claims use since Mar. 29, 1949.

Ser. No. 639,315. Cardwell Westinghouse Company, Chicago, Ill. Filed Dec. 11, 1952. (Sec. 2f.)

WESTINGHOUSE

For Railway Friction Draft Gears.
Claims use since February 1930.

Ser. No. 647,293. Hudson Motor Car Company, Detroit, Mich. Filed May 19, 1953. (Sec. 2f.)

WEATHER CONTROL

For Automobile Heaters Utilizing Heat From the Engine.
Claims use since on or about Oct. 26, 1947.

Ser. No. 647,324. Unit Parts Company, Oklahoma City, Okla. Filed May 19, 1953.

UP

Applicant claims ownership of Registration No. 568,564.
For Rebuilt Automotive Parts—Namely, Shock Absorbers, Hydraulic Brake Cylinders, and Brake Shoes.
Claims use since March 1945.

## CLASS 21

## ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 587,832. The Stanley Works, New Britain, Conn. Filed Nov. 15, 1949.

MAGIC CARPET

For Electric Door Controlling Apparatus Consisting of a Floor Mat Contact Device, Transformer, and Relays, for Complete Control of a Door Operator.
Claims use since Nov. 2, 1949.

Ser. No. 611,034. James Millen Manufacturing Company, Inc., Malden, Mass. Filed Mar. 8, 1951.




"Designed for Performance"

Without waiving its rights under its latter registration or at common law, no claim is made herein to the words "Designed for Performance" apart from the mark shown.
Applicant claims ownership of Registrations Nos. 385,754 and 565,794.
For Radio Receivers; Radio Receiver Accessories—Namely, Hetrofil Filters, Crystal Filters, Tuning Controls, Selectivity Controls, Power Suppliers, Amplifiers, Boosters, Preamplifiers; Radio Transmitters and Radio Transmitter Accessories—Namely, Exciters, Drivers, Amplifiers, Power Suppliers, and Antenna Tuners.
Claims use since May 1, 1947.

Ser. No. 614,224. Times Facsimile Corporation, New York, N. Y. Filed May 22, 1951.

STENAFAX

For Machines for Duplicating Written, Printed, Graphic, or Pictorial Subject Matter Under Control of Electric Signals; Facsimile Machines for Making Facsimile Records by Electric Signals; Stencil Forming Machines for Making Stencils by Electric Signals.
Claims use since Dec. 13, 1950.

Ser. No. 616,445. Pennsylvania Transformer Company, Canonsburg, Pa., assignor to McGraw Electric Company, a corporation of Delaware. Filed July 13, 1951.

POLE STAR

For Distribution Transformers.
Claims use since December 1947.

Ser. No. 617,253. Joy Manufacturing Company, Pittsburgh, Pa. Filed Aug. 2, 1951. (Sec. 2f.)

STRING-A-LITE

For Electric Lighting Assemblies Including Sections of Rubber-Covered Electric Cable Having Connectors and Lamp Sockets Associated Therewith.
Claims use since June 26, 1930.



Ser. No. 621,065. Industrial Condenser Corporation, Chicago, Ill. Filed Nov. 9, 1951.

Stabelex

For Electrical Condensers or Capacitors.
Claims use since Sept. 29, 1951.

Ser. No. 622,213. Ionics, Inc., San Francisco, Calif. Filed Dec. 7, 1951.

ion-ann

The word "Ion" is disclaimed from the mark as shown on the drawing.
For Electrical Apparatus for Generating Negative Ions in the Air for Alleviation of Respiratory Ailments, and Including One or More Generating Units and a Case Including Said Units; and Electrical Units for Generating Such Ions, and Including a Platinum Heating Element, or a Polonium Plate, All Enclosed in a Tube-Like Housing.
Claims use since June 22, 1951.

Ser. No. 622,214. Ionics, Inc., San Francisco, Calif. Filed Dec. 7, 1951.

IONAIRE

For Electrical Apparatus for Generating Negative Ions in the Air for Alleviation of Respiratory Ailments, and Including One or More Generating Units and a Case Including Said Units; and Electrical Units for Generating Such Ions, and Including a Platinum Heating Element, or a Polonium Plate, All Enclosed in a Tube-Like Housing.
Claims use since July 15, 1949.

Ser. No. 622,331. General Electric Company, Schenectady, N. Y. Filed Dec. 11, 1951.

CENTR-A-POWER

No claim is made to the word "Power" apart from the mark as shown on the drawing.
For Electrical Sectional Switchboards and the Sections Therefor.
Claims use since about June 1951.

Ser. No. 628,713. Raybestos-Manhattan, Inc., Passaic, N. J. Filed Apr. 25, 1952.

Glassbestos

Applicant claims ownership of Registrations Nos. 365,073 and 402,345.
For Electrical Insulation—Namely, Asbestos Paper Containing Glass Fibers.
Claims use since Feb. 14, 1952.

Ser. No. 632,033. Ionics, Inc., San Francisco, Calif. Filed July 1, 1952.

IONIX

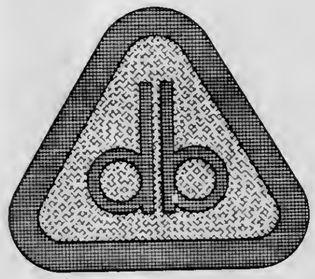
For Electrical Apparatus for Generating Negative Ions in the Air for Alleviation of Respiratory Ailments, and Including One or More Generating Units and a Case Including Said Units; and Electrical Units for Generating Such Ions, and Including a Platinum Heating Element, or a Polonium Plate, All Enclosed in a Tube-Like Housing.
Claims use since July 8, 1949.

Ser. No. 632,653. Stenor Limited, Richmond, England. Filed July 11, 1952.

Weldboy

Priority is claimed under Sec. 44(d). British application filed Jan. 14, 1952; Registration No. B-703,993, dated Jan. 14, 1952.
For Electrically Heated Vulcanizing Machines, Apparatus, and Parts Therefor.

Ser. No. 636,559. Dressen-Barnes Corporation, Pasadena, Calif. Filed Oct. 13, 1952.




The drawing is shaded to indicate orange background, black lines and black border.
For Electronically and Magnetically Regulated Power Supplies of the Inverter, Converter, and Rectifier Types.
Claims use since Apr. 28, 1952.

Ser. No. 638,882. Bernhardt Stahmer, doing business as Industrial Electrical Works, Omaha, Nebr. Filed Dec. 2, 1952.

SPRING-O-MATIC

The word "Spring" is disclaimed apart from the mark as shown.
For Automatic Take Up Reels for Electric Cords and Cables.
Claims use since Nov. 6, 1952.

Ser. No. 642,916. Weiger Weed & Company, Detroit, Mich. Filed Feb. 27, 1953. (Sec. 2f as to "Weiger-Weed.")

WEIGER-WEED

Applicant claims ownership of Registration No. 545,568.
For Non-Consumable Resistance Welding Tips or Electrodes, Spot Welding Tips, Seam Welding Wheels, Bushings for Seam Welder Shafts, Welding Dies, and Welding Electrode or Tip Holders.
Claims use since on or about Mar. 2, 1946.

Ser. No. 643,075. Circuitron, Inc., Hoboken, N. J. Filed Mar. 4, 1953.



For Printed Electrical and Electronic Circuits.
Claims use since Nov. 15, 1952.

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 607,700. Bullick Brothers, Ellsworth, Pa. Filed Dec. 15, 1950.

MARCYANNE

For Toy Furniture.
Claims use since Nov. 14, 1950.

Ser. No. 622,861. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.

Sun 66
COLLEGIATE

The word "Collegiate" is hereby disclaimed apart from the mark as shown.
For Basketballs, Volley Balls, and Footballs.
Claims use since on or about Nov. 6, 1951.

Ser. No. 622,862. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.

Sun 77
TOURNAMENT

The word "Tournament" is hereby disclaimed apart from the mark as shown.
For Basketballs, Water Polo Balls, Volley Balls, Soccer Balls, Footballs, and Softballs.
Claims use since on or about Oct. 26, 1951.

Ser. No. 634,166. Selchow & Righter Company, New York, N. Y. Filed Aug. 19, 1952.

BOONDOGGLE

For Board Game Employing Cards and Playing Pieces.
Claims use since July 7, 1952.

Ser. No. 638,520. Clair D. Cocanower, Phoenix, Ariz. Filed Nov. 24, 1952.

GANO • I WIN!

Applicant disclaims the words "I Win" apart from the mark shown in the drawing.
For Playing Cards.
Claims use since Oct. 13, 1952.

Ser. No. 639,436. Jimmy Nelson Enterprises, Inc., Chicago, Ill. Filed Dec. 13, 1952.

Danny O'Day

The mark is fanciful and is not the name of a particular living individual.
For Ventriloquist Dummies.
Claims use since May 16, 1952.

Ser. No. 639,437. Jimmy Nelson Enterprises, Inc., Chicago, Ill. Filed Dec. 13, 1952.

Humphrey Higsbye

The mark is fanciful and not the name of a particular living individual.
For Ventriloquist Dummies.
Claims use since May 16, 1952.

Ser. No. 642,947. Michael John Colleary, Ottawa, Ontario, Canada. Filed Mar. 2, 1953.




For Racing Games Comprising a Playboard, Cards, and Dice.
Claims use since Feb. 16, 1953.

Ser. No. 644,367. The Worthington Ball Company, Elyria, Ohio. Filed Mar. 27, 1953.

Visalite

For Covers for Golf Balls.
Claims use since Jan. 22, 1953.

Ser. No. 646,343. Alexander-Kins, Inc., New York, N. Y. Filed May 4, 1953.

"Quiz-Kin"

For Dolls.
Claims use since Apr. 5, 1953.



## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 536,572. Willys-Overland Motors, Inc., Toledo, Ohio, assignor to Willys Motors, Inc., Toledo, Ohio, a corporation of Pennsylvania. Filed Oct. 2, 1947. (Sec. 2f as to "Jeep.")

Sea Jeep

No claim is made to the word "Sea" apart from the mark. Applicant claims ownership of Registration No. 526,175.
For Internal Combustion Engines and Parts Thereof.
Claims use since Feb. 1, 1947, as to the mark shown; and since February 1941, as to the word "Jeep."

Ser. No. 571,509. Bucyrus-Erie Company, South Milwaukee, Wis. Filed Jan. 3, 1949. (Sec. 2f.)

HYDROCRANE

For Grab Buckets—Namely, Clamshell Buckets and Orange-Peel Buckets; Grapples; Hydraulic Equipment for Operating Buckets; Cranes—Namely, Truck-Cranes, Cranes for Other Types of Mobile Mounting, and Cranes for Stationary Mounting; Excavators—Namely, Grab-Bucket Excavators, Clamshell Excavators, and Orange-Peel Excavators; and Repair, Spare, and Replacement Parts and Units for the Specified Goods.
Claims use since Nov. 21, 1946.

Ser. No. 586,412. Hoffco, Inc., Richmond, Ind. Filed Oct. 17, 1949.

Scythette

The drawing is lined for purposes of shading and contrast and is not intended to indicate color.
For Power-Operated Sickle-Bar Mowing Machines Adapted To Be Carried by an Operator.
Claims use since July 14, 1949.

Ser. No. 590,837. Robroy Manufacturing Company, Durham, N. C. Filed Jan. 13, 1950.

ROBROY

For Truck Cranes, and Cement Spreaders and Parts Thereof.
Claims use since Dec. 1, 1948.

Ser. No. 615,503. The Hydra-Feed Machine Tool Corporation, Norwalk, Conn., formerly The Sparks Machine Tool Corporation. Filed June 21, 1951.

HYDRA-Z FEED

The word "Feed" is disclaimed apart from the mark.
For Heavy Duty Lathes.
Claims use since Mar. 1, 1942.

Ser. No. 620,461. The Coleman Motors Corporation, Littleton, Colo. Filed Oct. 25, 1951.

Yardmobile

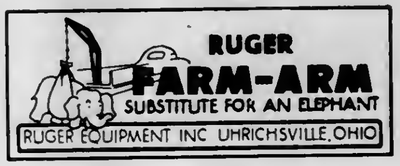
For Motor Driven Tractor for Semi-Trailers and the Like.
Claims use since Sept. 27, 1951.

Ser. No. 622,455. Pest Control Limited, Bourn, Cambridge, England. Filed Dec. 13, 1951.




Applicant disclaims the letters "PCL" except in connection with the mark as a whole. Applicant claims ownership of British Registration No. 681,336, dated July 26, 1949.
For Portable Sprayers and Power Operated Sprayers Adaptable for Use on Trucks, Tractors and Air Craft for Producing Aerosols, Sprays, Fogs, or Mists for Agricultural or Horticultural Purposes.

Ser. No. 624,302. Ruger Equipment, Inc., Uhrichsville, Ohio. Filed Jan. 30, 1952.




The word "Ruger" and the descriptive representation of the goods as well as the corporate name and address "Ruger Equipment Inc. Uhrichsville, Ohio" are disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 531,601.
For Cranes and Portable Load-Lifting and Handling Equipment—Namely, Portable Hydraulic Truck-Mounted Cranes.
Claims use since Jan. 2, 1951.

Ser. No. 624,303. Ruger Equipment, Inc., Uhrichsville, Ohio. Filed Jan. 30, 1952.




Applicant hereby disclaims the word "Co-Op," and the descriptive representation of goods as well as the corporate name and address, "Ruger Equipment Inc. Uhrichsville, Ohio," apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 531,601.
For Cranes and Portable Load-Lifting and Handling Equipment—Namely, Portable Hydraulic Truck-Mounted Cranes.
Claims use since July 1, 1951.

Ser. No. 628,019. Wales-Strippit Corporation, North Tonawanda, N. Y. Filed Apr. 12, 1952. (Sec. 2f.)

Wales

For Stripping Units for Stripping Metal From Dies, Hole Punching and Notching Equipment, for Machines and Self-Contained Hole-Punching and Notching Units for Perforating and Notching Metal Sheets and Other Sheet Materials; Sheet Metal Fabricators—Namely, Machines for Punching, Notching, and Nibbling Sheet Metal, Metal Drilling Machines, Punch Presses, Liquid Springs and Springs Utilizing a Compressible Solid—Namely, Cushioning Devices Comprising Cylinders Filled With a Variable Amount of Compressible Fluid or a Compressible Solid, Used for General Application.
Claims use since Mar. 4, 1943.

Ser. No. 629,165. Imperial Knife Company, Inc., Providence, R. I. Filed May 3, 1952.

DURAWOOD

For Cutlery—Namely, Kitchen Knives, Utility Knives, Steak Knives, Slicers, and Pot Forks.
Claims use since Apr. 23, 1952.

Ser. No. 632,249. Herold Manufacturing Co., not Inc., Chicago, Ill. Filed July 8, 1952.

PERFEX

For Electric Razors.
Claims use since Aug. 1, 1951.

Ser. No. 633,712. Earl L. Chadwick, doing business as Earl L. Chadwick Company, Portland, Oreg. Filed Aug. 11, 1952.

LAKO PRODUCTS

The word "Products" is disclaimed apart from the mark as shown.
For Power-Agitated Machines for Cleaning Small Parts in a Cleaning Solution, Accessory Tools for Attachment to and Operation by Electrically-Operated Hand Tools, and Combination Shearing, Trimming, and Edging Tools for Lawn and Garden Use.
Claims use since during the month of January 1947.

## CLASS 25

### LOCKS AND SAFES

Ser. No. 640,856. Hackett-Carlson Company, Saginaw, Mich. Filed Jan. 16, 1953.

HaCAR

For Automobile Door Safety Locks Operable by Spring Tension and Adapted To Lock the Rear Door on Closing of the Front Door.
Claims use since Apr. 9, 1946.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 603,473. Burrell Corporation, Pittsburgh, Pa. Filed Sept. 13, 1950.

Perma-Therm

The term "Therm" is disclaimed apart from the mark as shown in the drawing.
For Catalyst Heater for Use With Laboratory Research Apparatus.
Claims use since January 1947.

Ser. No. 613,007. J. L. J. Valette et Cie, Paris, France. Filed Apr. 23, 1951. (Sec. 2f.)

Clmont

Applicant claims ownership of Registration No. 275,893.
For Prism Binoculars: Opera, Field, and Marine Glasses, and Reading Glasses.
Claims use since May 1, 1889; and first used in commerce between foreign nations and the United States of America on May 1, 1889.

Ser. No. 614,518. Sheldrick Manufacturing Company, Upper Sandusky, Ohio. Filed May 29, 1951.

— UNIVERSAL —

For Laboratory Testing Instrument for Ascertaining Moisture Content of Samples of Materials, Consisting of a Sample Cup and a Ram Device Used With It for Compressing a Sample, Together With a Scale for Measuring the Thickness of the Compressed Sample, and a Thermometer for Indicating Temperature of the Compressed Sample and an Electrical Measuring System To Indicate the Specific Value of the Sample.
Claims use since Sept. 30, 1949.

Ser. No. 614,680. Affiliated Retailers, Inc., New York, N. Y. Filed June 4, 1951.

Armald

For Bathroom Scales.
Claims use since Feb. 14, 1949.

Ser. No. 615,267. Brookfield Engineering Laboratories, Inc., Stoughton, Mass. Filed June 16, 1951. (Sec. 2f.)

Brookfield

For Instruments for Indicating, Recording or Controlling Viscosity in Blending or Dilution Operations.
Claims use since 1940.



Ser. No. 631,667. Industrial Nucleonics Corporation, Columbus, Ohio. Filed June 24, 1952.

AccuRay

No claim is made to the exclusive use of the term "Ray" apart from the mark as shown.
For Industrial Beta Gauges Used to Measuring the Weight, Thickness, and Area of Sheet Materials.
Claims use since December 1951.

Ser. No. 632,032. Industrial Instrument Corp., Odessa, Tex. Filed July 1, 1952.

IIC

For Pressure, Recording and Indicating Gauges, Controllers and Meters and Parts Thereof—Namely, Metering Orifice Plates, and Switches Sold as a Unit.
Claims use since on or about Dec. 1, 1949.

Ser. No. 633,378. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Aug. 1, 1952.

TEKTOR

For Electrically Operated Indicating and Controlling Instruments for Indicating Conditions of and/or Automatically Controlling an Operation in Response to Fluctuations of a Variable Condition Which Can Be Translated to an Electrical Capacitance and Having an Electrical Relay Controlled by Circuitry Sensitive to Changes in Electrical Capacitance.
Claims use since 1949.

Ser. No. 640,141. Azoplate Corporation, Summit, N. J. Filed Dec. 30, 1952.

enco

For Pre-Sensitized Plates.
Claims use since Oct. 1, 1952.

Ser. No. 641,986. Sovereign Film Co., New York, N. Y. Filed Feb. 9, 1953.

SOVEREIGN

For Photographic Film and Paper.
Claims use since Dec. 8, 1952.

Ser. No. 642,773. San-ei Sangyo Co., Ltd., Tokyo, Japan. Filed Feb. 25, 1953.

SAMOCA

Applicant claims ownership of Japanese Registration No. 400,466, dated July 9, 1951.
For Cameras.

Ser. No. 642,988. Paragon-Revolute Corporation, Rochester, N. Y. Filed Mar. 2, 1953.

REVOLUTE METEOR

Applicant claims ownership of Registrations Nos. 505,207 and 505,208.
For Machines for Exposing and Developing White Prints, Brown-Line Prints, and Similar Types of Reproductions.
Claims use since Jan. 7, 1953.

Ser. No. 642,990. Pentacon Corporation, New York, N. Y. Filed Mar. 2, 1953.

Pentacon

For Cameras.
Claims use since Oct. 22, 1952.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 636,294. G. B. Kent & Sons Limited, London, England. Filed Oct. 7, 1952.

BLOOM OF YOUTH

For Combined Massage and Complexion Brush.
Claims use since Jan. 19, 1952; and first used in commerce between Great Britain and the United States on Jan. 19, 1952.

## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 616,909. Henry Valve Company, Melrose Park, Ill. Filed July 25, 1951.

Applicant claims ownership of Registration No. 548,080.
For Driers for Dehydrating a Circulating Fluid—Namely, a Refrigerant Fluid, Including a Housing Containing a Desiccating Agent Through Which the Fluid Is Caused To Pass; and Strainers of Similar Construction Lacking

a Desiccating Agent but Provided With Internal Filter Means Through Which the Fluid Passes To Separate Foreign Matter Therefrom.
Claims use since January 1946.

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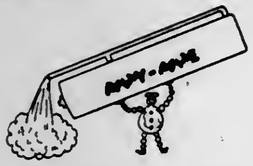
Ser. No. 623,831. Filtrator Coffee Apparatus Co., Inc., New York, N. Y. Filed Jan. 21, 1952.

# FILTRATOR

For Filter Paper Particularly Cut for Use in a Coffee-Making Device.
Claims use since Mar. 4, 1923.

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Ser. No. 634,350. Soft Water Supply Co., Atchison, Kans. Filed Aug. 22, 1952.




The mark consists of a fanciful figure of a miniature man holding aloft an inclined tank having thereon a pipe from which water is discharging; said tank having the term "Mity-Mite" printed on its side in tumble letters. The representation of the tank is disclaimed apart from the mark as shown.
For Water Softeners and Filters.
Claims use since July 31, 1948.

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Ser. No. 634,838. Elgin Softener Corporation, Elgin, Ill. Filed Sept. 4, 1952.

SOFTENDER

For Water Softener Regenerating Units, Each Unit Consisting of a Brine Tank, Multiport Valve, and Automatic Mechanism for Operating Said Valve.
Claims use since Aug. 14, 1952.

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Ser. No. 636,316. Sweden Freezer Manufactoring Company, Seattle, Wash. Filed Oct. 7, 1952.

*Movie Cone*

The word "Cone" is disclaimed separate and apart from the mark as shown.
For Commercial Ice-Cream Dispensing Freezers.
Claims use since on or about Jan. 2, 1952.

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Ser. No. 641,769. Economy Filter Cartridge Company, Cleveland, Ohio. Filed Feb. 5, 1953.

**ECON-O-FILL**

For Vehicle Oil Filter Media Packs To Be Housed in a Vehicle Oil Filter System.
Claims use since Nov. 23, 1951.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 615,292. Slumberland Products Co., Waltham, Mass. Filed June 16, 1951.

# Stor-a-bed

The word "Bed" is disclaimed apart from the mark as shown in the drawing.
For Special Bed Combination, Including Mattress Unit Attached to Storage Chest Compartment.
Claims use since Mar. 15, 1951.

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Ser. No. 642,585. J. L. Weiner Co., St. Louis, Mo. Filed Feb. 20, 1953.

**DESKRITER**

For Child's Combination Chair and Desk Unit.
Claims use since June 1951.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 549,872. The Bastian-Blessing Company, Chicago, Ill. Filed Feb. 17, 1948.

REGO LP GAS EQUIPMENT

In this application no registration rights are claimed in the letters "LP" or to the words "Gas Equipment" used apart from the mark as shown. Applicant claims ownership of Registrations Nos. 115,833, 212,613, and 280,239.
For Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Liquefied Petroleum Gas Burning and Carbon Burning, and Parts Thereof—Namely, Soldering and Brazing Torches, Carbon Burning Torches, Torch Tips, Spark Lighters, Cutting Torch Guides, Air-Blast Burners, Liquefied Petroleum Gas Burners, and Manifolds for Use With Heating Apparatus Including Wall Manifolds, Tripod Manifolds, Self-Supporting Manifolds, and Charging Manifolds; and Welding, Cutting, Brazing, Soldering, and Liquefied Petroleum Gas Burning and Carbon Burning Outfits and Equipment.
Claims use since January 1942.



Ser. No. 549,873. The Bastian-Blessing Company, Chicago, Ill. Filed Feb. 17, 1948.

LP GAS EQUIPMENT

In this application no registration rights are claimed in the letters "LP" or to the words "Gas Equipment" used apart from the mark as shown.
For Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Liquefied Petroleum Gas Burning and Carbon Burning, and Parts Thereof—Namely, Soldering and Brazing Torches, Carbon Burning Torches and Torch Tips, Spark Lighters, Cutting Torch Guides, Air-Blast Burners, Liquefied Petroleum Gas Burners; Manifolds for Use With Heating Apparatus—Namely, Wall, Tripod, and Self-Supporting Manifolds; and Welding, Cutting, Brazing, Soldering, and Liquefied Petroleum Gas Burning and Carbon Burning Outfits and Equipment.
Claims use since January 1942.

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Ser. No. 564,014. The Bastian-Blessing Company, Chicago, Ill. Filed Apr. 13, 1948.




The representation of the girl is fanciful. In this application no registration rights are claimed in the words "Little Elpee" used apart from the mark as shown.
For Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Liquefied Petroleum Gas Burning and Carbon Burning, and Parts Thereof—Namely, Soldering and Brazing Torches, Carbon Burning Torches and Torch Tips, Spark Lighters, Cutting Torch Guides, Air-Blast Burners, Liquefied Petroleum Gas Burners; Manifolds for Use With Heating Apparatus—Namely, Wall, Tripod, and Self-Supporting Manifolds; and Welding, Cutting, Brazing, Soldering, and Liquefied Petroleum Gas Burning and Carbon Burning Outfits and Equipment.
Claims use since Mar. 24, 1948.



Ser. No. 626,904. The Peerless Foundry Company, Indianapolis, Ind. Filed Mar. 22, 1952. (Sec. 2f.)

# PEERLESS

For Warm Air Furnaces, Gas Burners, Oil Burners, Blowers for Warm Air Furnaces, Camp Stove Units, and Warm Air Furnace Fittings.
Claims use since during the year 1910.

## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 645,265. Selberling Rubber Company, Barberton, Ohio. Filed Apr. 14, 1953.

**THRU-WAY**

For Pneumatic Rubber Tires.
Claims use since Mar. 13, 1953.

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Ser. No. 645,773. Boston Woven Hose and Rubber Company, Cambridge, Mass. Filed Apr. 23, 1953.

*Kleerite*

For Garden Hose.
Claims use since Feb. 13, 1953.

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Ser. No. 645,945. Atlas Supply Company, Newark, N. J. Filed Apr. 27, 1953.




Applicant claims ownership of Registrations Nos. 509,443, 261,088, and others.
For Rubber Tires.
Claims use since Mar. 26, 1953.

## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 635,234. Piano Action & Key Corp., Memphis, Tenn. Filed Sept. 13, 1952. (Sec. 2f.)

**WESSELL, NICKEL & GROSS**

For Piano Actions.
Claims use since on or about Feb. 21, 1893.

## CLASS 37

### PAPER AND STATIONERY

Ser. No. 625,490. Paramount Paper Products Company, Omaha, Nebr. Filed Feb. 25, 1952.

SHAMROCK



For Labels Such as Are Employed for Attachment to Packages of Goods, Wares, and Merchandise for Designating the Contents of the Packages and Also Used for Designating the Name and Address of a Consignee and Consignor, Together With Rolls of Tape Provided With an Adhesive, Said Tape Being Used for Sealing Packages of Goods, Wares, and Merchandise.
Claims use since Nov. 8, 1951.

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Ser. No. 641,418. American Lithofold Corporation, St. Louis, Mo. Filed Jan. 28, 1953.

407 BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Printed Forms.
Claims use since Sept. 11, 1952.

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Ser. No. 642,491. Rand McNally & Company, Skokie, Ill. Filed Feb. 19, 1953.

CLUBTROLLER

For Check Register Forms and Pocket Filing Sheets for Ledgers.
Claims use since 1939.

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## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 639,708. The Parents' Institute, Inc., New York, N. Y. Filed Dec. 18, 1952.

CHILDREN'S ANNUAL
of Stories and Things-to-Do

Applicant does not make any claim to the words "Annual" and "Stories" apart from the mark. Applicant claims ownership of Registration No. 190,516.
For Magazine Published Quarterly.
Claims use since Dec. 1, 1952.

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Ser. No. 639,709. The Parents' Institute, Inc., New York, N. Y. Filed Dec. 18, 1952.

CHILDREN'S STORY ANNUAL

Applicant does not make any claim to the words "Story Annual" apart from the mark. Applicant claims ownership of Registration No. 190,516.
For Magazine Published Quarterly.
Claims use since Dec. 1, 1952.

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Ser. No. 643,496. Magazine Publishers, Inc., Chicago, Ill. Filed Mar. 11, 1953.

MORTiE

For Comic Magazines.
Claims use since November 1952.

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Ser. No. 643,527. Advertising Publications, Incorporated, Chicago, Ill. Filed Mar. 12, 1953.

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For Periodical Publications.
Claims use since Jan. 5, 1951.

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Ser. No. 643,603. New York Herald Tribune Inc., New York, N. Y. Filed Mar. 13, 1953.

Listen, Men!

For Column Heading.
Claims use since Feb. 17, 1953.

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## CLASS 39

### CLOTHING

Ser. No. 546,227. R. H. Macy & Co., Inc., New York, N. Y. Filed Jan. 5, 1948. (Sec. 2f.)

KEMPTON

Applicant claims ownership of Registrations Nos. 221,278, 252,148, and 251,368.
For Leather Shoes for Men, Men's and Boys' Suits, Outer Shirts, and Pajamas.
Claims use since Oct. 8, 1925.

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Ser. No. 564,999. Albert I. Levin, trading as Little Charmer Blouse Co., Philadelphia, Pa. Filed Sept. 11, 1948.

Little Charmer

For Children's and Girls' Blouses.
Claims use since on or about Oct. 1, 1945.

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Ser. No. 608,425. MacLachlan Hats, Incorporated, Norwalk, Conn. Filed Jan. 5, 1951.

PARK AVENUE HOMBURG

No claim is made to the word "Homburg" apart from the mark as shown.
For Men's Fur Felt Hats.
Claims use since Nov. 16, 1950.



Ser. No. 614,630. Seymour Nehamen, doing business under the name Ann-Ette of Hollywood, Los Angeles, Calif. Filed June 1, 1951.

"Great Expectation"

For Women's and Misses' Maternity Wearing Apparel—Namely, Brassières, Garter Belts, and Girdles.
Claims use since May 7, 1951.

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Ser. No. 616,256. Clifford J. Thompson, Davenport, Fla. Filed July 9, 1951.

Therma-Soles

Applicant disclaims exclusive right to the word "Soles."
For Insoles.
Claims use since Apr. 6, 1950.

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Ser. No. 622,804. Chippewa Falls Woolen Mill Company, Chippewa Falls, Wis. Filed Dec. 26, 1951.




Applicant disclaims the word "Woolens" apart from the mark shown. The picture of the man shown in the drawing is fanciful and does not represent any particular individual.
For Shirts, Coats, Jackets, Trousers, Caps, Sur-Coats, and Capes for Men, Women, and Children.
Claims use since Jan. 1, 1945.

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Ser. No. 627,822. Kaylon Incorporated, New York, N. Y. Filed Apr. 9, 1952.

Turnabout Tommies

Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.
For Women's and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes.
Claims use since Feb. 13, 1951.

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Ser. No. 628,080. Curt Wolfelt, doing business as Curt Wolfelt Studios, New York, N. Y. Filed Apr. 11, 1952.

Royal Raffia by Wolfelt

The surname "Wolfelt" and the word "Raffia" are disclaimed apart from the mark as shown.
For Ladies' and Misses' Shoes, Sandals, and Playshoes, Made of Raffia.
Claims use since January 1950.

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Ser. No. 632,083. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Filed July 2, 1952.

Jack Purcell

The name "Jack Purcell" is the name of a living individual, whose consent to use and register his name in connection with the goods listed herein is of record in the application file.
For Rubber-Soled Canvas Shoes for the Use of Men, Women, and Children.
Claims use since 1935.

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Ser. No. 634,695. Madalyn Miller Corporation, Los Angeles, Calif. Filed Aug. 30, 1952.

Madalyn Miller
ORIGINAL

Madalyn Miller Schimmel, nee Madalyn Miller, consents to the registration of the name "Madalyn Miller." The word "Original" is disclaimed apart from the mark as shown on the drawing.
For Ladies' and Misses' Clothing—Namely, Dresses, Skirts, Blouses, Halters, Jackets, Boleros, Sun Dresses, Belts, Stoles, Caps, and Hats.
Claims use since May 27, 1942.

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Ser. No. 637,089. Shroyers Incorporated, Shamokin, Pa. Filed Oct. 23, 1952.



No exclusive claim is made to the words "The House of Shroyers" apart from the mark as shown in the drawing.
For Ladies' and Misses' Dresses.
Claims use since Sept. 28, 1949.

Ser. No. 638,671. Supowitz Brothers, Pittsburgh, Pa. Filed Nov. 26, 1952.




The picture of a man shown in the drawing is fanciful. The drawing is lined for shading purposes only. Applicant claims ownership of Registration No. 355,117.

For Boys' Shoes Made of Leather.

Claims use since Jan. 10, 1935.

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Ser. No. 640,778. Bachmann Uxbridge Worsted Corporation, Uxbridge, Mass. Filed Jan. 15, 1953. (Sec. 2f.)

UXBRIDGE

For Men's and Women's Suits and Overcoats, Women's Dresses, All Made of Natural Fibers, Synthetic Fibers, and Combinations of Natural and Synthetic Fibers.

Claims use since July 1945.

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Ser. No. 642,001. Dwight S. Williams Company, Inc., New York, N. Y. Filed Feb. 9, 1953.

NYLINER

For Socks for Men.

Claims use since Sept. 25, 1952.

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Ser. No. 642,231. Ladd Hosiery Mills, Inc., Reading, Pa. Filed Feb. 13, 1953.

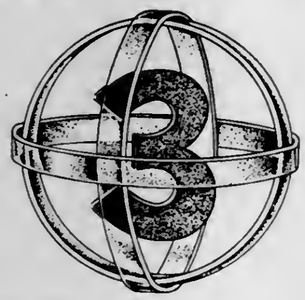
"Eye Cues"

For Ladies' Hosiery.

Claims use since Jan. 2, 1953.

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Ser. No. 642,296. Munsingwear, Inc., Minneapolis, Minn. Filed Feb. 16, 1953.



For Women's Hosiery.

Claims use since Jan. 12, 1953.

Ser. No. 642,889. London Character Shoes Corporation, New York, N. Y. Filed Feb. 27, 1953. (Sec. 2f as to "London Character.")




The word "Shoes" is disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 136,518, 170,717, and others.

For Shoes Made of Leather, Fabric, or Rubber or Combination of Such Materials, for Men, Women, and Children.

Claims use since Mar. 21, 1948, as to the mark shown; since 1907, as to the notation "London"; and since May 24, 1919, as to the notation "London Character."

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## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 621,986. Scovill Manufacturing Company, Waterbury, Conn. Filed Dec. 1, 1951.

Puritan

Applicant claims ownership of Registrations Nos. 147,747, 263,744, and others.

For Bank Pins, Dressmaker Pins, Silk Pins, Open End Thimbles, and Snap Fasteners.

Claims use since January 1892.

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Ser. No. 640,624. The Gillette Company, doing business under the name and style of The Toni Company, Boston, Mass. Filed Jan. 12, 1953.

magic wand

For Non-Electrical Hair Curlers Not Made of Precious Metal.

Claims use since Oct. 31, 1952.

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Ser. No. 641,290. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y. Filed Jan. 26, 1953.

For my Mommy... ...and Me

Applicant claims ownership of Registration No. 566,100.

For Non-Electrical Hair Curlers, Barrettes, and Combs.

Claims use since on or about Nov. 10, 1952.

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Ser. No. 642,330. Waterbury Companies Inc., Waterbury, Conn. Filed Feb. 16, 1953.

KOMATIC

For Self Cleaning Combs.

Claims use since 1941.



## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 634,509. Societe Rhodiaceta, Paris, France. Filed Aug. 13, 1952.

NYLFRANCE

Applicant claims ownership of French Registration No. 418,049, dated Feb. 19, 1952.

For Textile Ribbons and Textile Fabrics, Including Lace, of Synthetic Fibers.

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Ser. No. 643,427. Katz, Jacobson & Paris, Inc., New York, N. Y. Filed Mar. 10, 1953.

CAMPARA

For Textile Fabrics of Cotton, Wool, and Synthetic Fibres.

Claims use since Jan. 8, 1953.

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## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 636,573. Will Ross, Inc., Milwaukee, Wis. Filed Oct. 13, 1952.

Kenwrap

For Paper Sterilizing Bags and Paper Tubing Specially Designed To Contain Catheters and Surgical Instruments for Sterilization.

Claims use since September 1952.

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## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Ser. No. 630,406. Flamingo Water Company, also doing business as Flamingo Spring Water Company, New Smyrna Beach, Fla. Filed May 28, 1952.

FLAMINGO

For Non-Effervescent Bottled Mineral Spring Water.

Claims use since July 1, 1921.

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## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 614,397. Byron Johnston Bowlby, doing business under the style name of Bowlby Candy Company, Appleton, Wis. Filed May 26, 1951.

"FADE-A-WAYS"

For Candies.

Claims use since Apr. 21, 1951.

Ser. No. 615,319. David Der Hairbedian, doing business under the firm name and style of David & Sons, Fresno, Calif. Filed June 18, 1951. (Sec. 2f as to the name "David.")

DAVID & SONS

For Nuts Both Shelled and Unshelled and Salted and Unsalted, Raisins, and Edible Seeds—Namely, Pumpkin Seeds and Sunflower Seeds.

Claims use since Mar. 9, 1929.

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Ser. No. 618,006. Piggly Wiggly Corporation, Jacksonville, Fla. Filed Aug. 23, 1951.




For Coffee, Tea, Fresh Eggs, Dried and Canned Beans, and Peas, Rice, Dried Fruits, Canned Citrus Fruit Juices, Jams, Jellies, Fruit Preserves, Honey, Food Flavoring Extracts, Spices, Macaroni, Spaghetti, Cheese, Candy, Candied and Unpopped Popcorn; Fresh Cuts of Beef, Veal, Lamb, and Pork—Namely, Steaks, Chops, Hamburger and Roast; Fresh Cuts From Cured Meats—Namely, Ham, Shoulders, Butts, and Tongues; Variety Meats—Namely, Hearts, Kidneys, Livers, Brains, Sweetbreads, and Oxtails; and Fresh and Cured Sausage—Namely, Bologna, Salami, Braunschweiger, Meat Loaf, and Ham Loaf.

Claims use since June 15, 1947.

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Ser. No. 622,831. Fabian Kontney, doing business as Kontney Candy Co., Green Bay, Wis. Filed Dec. 26, 1951.

Packer Smackers

For Candied Popcorn Confections.

Claims use since Nov. 21, 1951.

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Ser. No. 625,740. Keith Meta, Grower and Shipper, Holtville, Calif. Filed Feb. 29, 1952. (Sec. 2f.)

RECORD CROP

For Fresh Vegetables.

Claims use since December 1944.

Ser. No. 628,633. K. C. Buffet Supply, Kansas City, Mo. Filed Apr. 24, 1952.




For Steak Sauce.
Claims use since Apr. 17, 1952.

Ser. No. 629,721. John H. Costello, St. Louis, Mo. Filed May 15, 1952. (Sec. 2f.)

Costello's

For Cottage Cheese and Frozeo Confection Made From Vegetable Fat—Namely, an Imitation Ice Cream.
Claims use since March 1936.

Ser. No. 629,827. Supreme Feed Mills, also doing business as Supreme Mills, Glasgow, Ky. Filed May 16, 1952.

SOUTHERN CREAM

For Ground Corn for Human Consumption—Namely, Corn Meal.
Claims use since on or about Apr. 1, 1952.

Ser. No. 630,243. Tyler-Gregg Poultry and Egg Company, Inc., Tyler, Tex. Filed May 24, 1952. (Sec. 2f.)

FARMER'S BEST

For Fresh Dressed and Frozen Frying, Roasting, and Broiling Poultry.
Claims use since Mar. 1, 1943.

Ser. No. 630,490. Gaymont Foods Co., Chicago, Ill. Filed May 29, 1952.

YOGOLAC

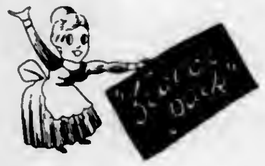
Applicant claims ownership of Registration No. 556,999.
For Specially Processed Powdered Dietary Supplement Consisting of Definite Portions of Whole Dry Milk or Skimmed Dry Milk, Whey Solids, Sodium Citrate and Vitamin D Concentrate Adapted To Be Liquified With Water or Vegetable or Fruit Juices and Used as an Aid in Cooking, Baking and With the Addition of Prepared Cultures To Produce Yogurt, Buttermilk, and Other Fermented Food Products.
Claims use since Apr. 23, 1952.

Ser. No. 630,874. Bio-Gum Laboratories, Inc., Brooklyn, N. Y. Filed June 7, 1952.

Clor-aid

For Candy-Coated Chlorophyll Chewing Gum.
Claims use since Apr. 15, 1952.

Ser. No. 633,840. D. E. Foote & Co., Incorporated, Baltimore, Md. Filed Aug. 13, 1952.




No claim is made to the exclusive use of the words "Flavor Pack" apart from the mark as shown.
For Canned Vegetables and Vegetable Juices and Canned Fruits and Fruit Juices, Tomato Sauce, and Canned Mushrooms.
Claims use since January 1945.

Ser. No. 634,278. F. H. Soldwedel Company, Pekin, Ill. Filed Aug. 21, 1952.

del's

For Dairy Products—Namely, Fluid Milk, Buttermilk, Butter, Cheese, Cottage Cheese, and Ice Cream.
Claims use since Nov. 1, 1944.

Ser. No. 636,586. Ch. Gervais, Societe Anonyme, Paris, France. Filed Oct. 14, 1952.

CH. GERVAIS

The mark "Ch. Gervais" is the name of Charles Gervais who is president of the applicant corporation. Applicant claims ownership of French Registration No. 381,187, dated Oct. 30, 1947; and United States Registrations Nos. 249,124, 249,123, and 242,371.
For Cheese and Milk Products—Namely, Dry Milk, Concentrated and Condensed Milk.

Ser. No. 636,587. Ch. Gervais, Societe Anonyme, Paris, France. Filed Oct. 14, 1952.



The mark shown is "Ch. Gervais" which is the facsimile signature of Charles Gervais, president of the applicant corporation. Applicant claims ownership of French Registration No. 395,602, dated July 13, 1949; and United States Registrations Nos. 249,124, 249,123, and 242,371.
For Cheese and Milk Products—Namely, Dry Milk, Concentrated and Condensed Milk.

Ser. No. 636,653. Purity Products Company, Mayville, Wis. Filed Oct. 15, 1952.

Lacto Puritein

The word "Lacto" is disclaimed apart from the mark as shown.
For Milk Solids Concentrate Sold as a Protein Food Additive.
Claims use since Sept. 12, 1952.



Ser. No. 637,498. George Nonian Company, Dinuba, Calif. Filed Nov. 1, 1952.

Fruitful Valley

For Canned Fruits, Canned Berries and Fresh Grapes.
Claims use since 1947.

Ser. No. 639,631. Glaser, Crandell Co., Chicago, Ill. Filed Dec. 17, 1952.

Piklsnaps

Applicant claims ownership of Registration No. 284,858.
For Cucumber Relish and Cucumber Slices.
Claims use since Dec. 18, 1930.

Ser. No. 639,786. Smokemasters, Inc., New York, N. Y. Filed Dec. 19, 1952. (Sec. 2f.)

ROSTOCK BRAND

The word "Brand" is disclaimed apart from the mark as shown.
For Meat Products—Namely, Boneless Cooked Ham, Boneless Pork Shoulder Butts, Boneless Pork Loins, Luncheon Meat, and Boneless Shoulder of Pork, All of the Goods Being Packed in Cans.
Claims use since Nov. 1, 1944.

Ser. No. 640,323. Better Brands Food Products, New York, N. Y. Filed Jan. 5, 1953.

FRESHUM

The lining shown on the drawing represents actual lines appearing in the mark.
For Food Emulsifier Consisting of Aqueous Dispersion of Super Glycerinated Oils, Etherified Oil Derivative and Sodium Propionate, and Used for the Preservation of Sweet Goods, Cakes, Bread, and Icings.
Claims use since Sept. 3, 1952.

Ser. No. 641,355. Van Camp Sea Food Company, Inc., Terminal Island, Calif. Filed Jan. 26, 1953.



For Canned Tuna Fish.
Claims use since May 28, 1952.

Ser. No. 641,356. Van Camp Sea Food Company, Inc., Terminal Island, Calif. Filed Jan. 26, 1953.

TUN-A-LO

For Canned Tuna Fish.
Claims use since June 2, 1952.

Ser. No. 641,697. South Pacific Canning Company, Long Beach, Calif. Filed Feb. 3, 1953.

The CAVS

For Canned Tuna Fish.
Claims use since Jan. 5, 1953.

Ser. No. 642,077. Horseshoes, Inc., New York, N. Y. Filed Feb. 11, 1953.

HORSESHOES

Applicant claims ownership of Registration No. 574,545.
For Candy.
Claims use since Feb. 2, 1953.

Ser. No. 643,217. Gerber Products Company, Freemont, Mich. Filed Mar. 6, 1953.



The representation of an infant's head is an artistic drawing of a picture of Ann Turner Cook taken when a child, whose consent is of record. Applicant claims ownership of Registrations Nos. 310,224, 313,879, and others.
For Baby Teething Biscuits.
Claims use since July 24, 1952.

Ser. No. 643,228. Heart of Ohio Candy Co., Columbus, Ohio. Filed Mar. 6, 1953.

Becky Thatcher

The name "Becky Thatcher" is fanciful.
For Candy.
Claims use since Jan. 1, 1937.

Ser. No. 643,697. The H. H. Meyer Packing Company, Cincinnati, Ohio. Filed Mar. 16, 1953.

PIXIES

For Sausages.
Claims use since Feb. 26, 1953.

Ser. No. 645,053. Earl M. Nielsen, San Diego, Calif. Filed Apr. 10, 1953.

N&R

For Canned Tuna Fish.
Claims use since Jan. 26, 1951.

Ser. No. 645,301. Germantown Manufactoring Company, Philadelphia, Pa. Filed Apr. 15, 1953.

**"V. C.-PLUS"**

For Ice Cream Stabilizer.
Claims use since Sept. 2, 1948.

Ser. No. 645,406. R. F. Fels, San Juan, P. R. Filed Apr. 16, 1953.

**MONO Brand**

No claim is made to the exclusive use of the word "Brand."
For Coconuts.
Claims use since Apr. 2, 1953.

Ser. No. 645,872. Deerfield Groves Company, Wahasso, Fla. Filed Apr. 24, 1953.

**ORKIDEER**

Applicant claims ownership of Registration No. 571,156.
For Fresh Citrus Fruits.
Claims use since Feb. 9, 1953.

Ser. No. 645,984. Glade Candy Co., Salt Lake City, Utah. Filed Apr. 27, 1953.

**Prairie Schooner**

For Candy.
Claims use since on or about Feb. 2, 1953.

Ser. No. 646,046. Barbey Packing Corporation, Astoria, Oreg. Filed Apr. 28, 1953.

**SPRINGTIME**

For Fresh, Frozen, and Canned Fish; and Canned Shad Roe.
Claims use since August 1926.

Ser. No. 647,018. Los Angeles Nut House, Los Angeles and Oakland, Calif. Filed May 14, 1953.




"Becky Thatcher" is the name of a fictitious character created by Samuel Clemens (Mark Twain).
For Peanut Brittle Candy.
Claims use since Oct. 15, 1952.

## CLASS 47

### WINES

Ser. No. 610,881. Wine Growers Guild, Lodi, Calif. Filed Mar. 5, 1951.

Custom Bottling
**Guild**

No claim is made to the notation "Custom Bottling" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 410,724, 410,850, and others.
For Wines.
Claims use since Jan. 31, 1951.

Ser. No. 610,882. Wine Growers Guild, Lodi, Calif. Filed Mar. 5, 1951.

Vintner's Choice
**Guild**

No claim is made to the words "Vintner's Choice" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 410,724, 410,850, and others.
For Wines.
Claims use since Feb. 9, 1951.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Ser. No. 570,548. Esbeco Distilling Corporation, Stamford, Conn. Filed Dec. 15, 1948. (Sec. 2f.)

**Lynnbrook**

For Whiskey.
Claims use since Dec. 4, 1934.

Ser. No. 633,313. MacDonald, Greenless Limited, Leith, Edinburgh, Scotland. Filed July 31, 1952.




The name "Sandy MacDonald" is entirely fanciful. The lining on the drawing is for shading purposes only. Applicant claims ownership of Registrations Nos. 303,156 and 303,538.
For Scotch Whisky.
Claims use since May 16, 1933.



Ser. No. 638,873. Sandy Fraser Limited, Manchester, England. Filed Dec. 2, 1952.

*"Sandy Fraser"*

"Sandy Fraser" is the nickname by which Alexander Fraser, predecessor of the applicant, was known and under which he did business. He is deceased. Applicant claims ownership of British Registration No. 683,810, dated Nov. 9, 1949, and United States Registration No. 302,226.
For Scotch Whisky.

Ser. No. 642,591. The American Distilling Company, doing business as Willow Springs Distilling Company, New York, N. Y. Filed Feb. 24, 1953.

**TEL-E-VAR**

For Vodka.
Claims use since Jan. 21, 1953.

Ser. No. 642,697. Schenley Distillers, Inc., doing business as I. W. Harper Distilling Company, New York, N. Y. Filed Feb. 24, 1953.



For Whiskey.
Claims use since Oct. 8, 1952.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 614,584. The Tallmadge Co. Inc., New York, N. Y. Filed May 31, 1951.

**FLOCK-TEX**

The word "Flock" is disclaimed apart from the mark as shown in the drawing.
For Rubber or Plastic Backed Flock Carpeting, Rugs, and Mats.
Claims use since Feb. 5, 1951.



Ser. No. 622,273. New York Silicate Book Slate Co., Inc., New York, N. Y. Filed Dec. 3, 1951.




The drawing is lined for green and black. Applicant makes no claim in this registration to the word "Chalkboard" apart from the mark shown, reserving, however, all other rights in and to the same.
For Chalkboard To Be Affixed to the Walls of Schoolrooms and the Like and To Serve as a Writing or Drawing Surface for Chalk and Crayons.
Claims use since Oct. 19, 1951; and since 1935, as to "Armor."

Ser. No. 626,043. New York Silicate Book Slate Co., Inc., New York, N. Y. Filed Mar. 6, 1952.

**PARAGON CHALKBOARD**

Applicant makes no claim in this registration to the word "Chalkboard" apart from the mark shown, reserving however all other rights in and to the same.
For Chalkboard To Be Affixed to the Walls of Schoolrooms and the Like and To Serve as a Writing or Drawing Surface for Chalk and Crayons.
Claims use since November 1935.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Ser. No. 617,909. Bymart, Inc., Dover, Del., and New York, N. Y., now by change of name Bymart-Tintair, Inc. Filed Aug. 21, 1951.

*Best Tressed*

The word "Best" is disclaimed apart from the mark as shown.
For Hair Coloring Preparations.
Claims use since July 14, 1951.

Ser. No. 625,294. Parfums Blanchard, doing business as "Blanchard," New York, N. Y. Filed Feb. 20, 1952.




The drawing is lined for the color green and stippled to show the use of the color gold. Applicant claims ownership of Registrations Nos. 338,182 and 554,194.
For Toilet Water, Cologne, Perfume, Bath Powder, Perfumed and Powdered Sachet and Face Cream.
Claims use since Sept. 15, 1951.

Ser. No. 630,512. Royal Home Products, Inc., doing business as Zanol Products, Cincinnati, Ohio. Filed May 29, 1952. (Sec. 2f.)

FAITH AVERY

The name "Faith Avery" is fanciful. Applicant claims ownership of Registration No. 292,307.

For All Purpose Lotion for Dermal Application, Cologne, Deodorant, Face Powder, Perfume, Sachet Powder.

Claims use since on or about Dec. 1, 1930.

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Ser. No. 634,146. Les Parfums de Dana, Inc., New York, N. Y. Filed Aug. 19, 1952.

PLATINUM PLATINE PLATINO

Applicant claims ownership of Registration No. 380,504.

For Perfume and Cologne.

Claims use since Sept. 29, 1939.

Ser. No. 636,038. J. Strickland and Company, Memphis, Tenn. Filed Oct. 1, 1952.




The drawing is lined for shading.

For Perfumes.

Claims use since July 30, 1952.

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Ser. No. 638,308. Helen Neuschaefer, Inc., New York and College Point, N. Y. Filed Nov. 19, 1952.

K'LES

For Nail Polish Remover Preparation.

Claims use since Sept. 18, 1952.

## SERVICE MARKS

### CLASS 100

### MISCELLANEOUS

Ser. No. 534,104. Gardner Displays Company, Pittsburgh, Pa. Filed Sept. 11, 1947. (Classified in Class 103.) (Sec. 2f.)

See this serial number in Class 103 for goods and mark.

Claims use since Oct. 15, 1937.

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Ser. No. 620,017. Walter W. Ross and Company, Inc., doing business as Beta Sigma Phi and sometimes Beta Sigma Phi International, Kansas City, Mo. Filed Oct. 15, 1951. COLLECTIVE MARK.




The slogan "Vita Scientia Amicitia," when translated into English means "Life, Learning and Friendship." The words "Vita Scientia Amicitia" are disclaimed apart from the mark shown in the drawing.

For Organizing of Chapters in a National Business Society and Maintaining Membership Therein.

Claims use since Apr. 30, 1931.

Ser. No. 640,351. The National Association for Mental Health, Inc., New York, N. Y. Filed Jan. 5, 1953.




The lining forms a part of the mark.

For Services Relating to the Improvement of Mental Health—Namely, Stimulating and Promoting Interest in Mental Health Problems and Disseminating Information Relative to Mental Health.

Claims use since Nov. 1, 1952.

### CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 638,676. Carlo Vinti, New York, N. Y. Filed Nov. 26, 1952.

"OPERA CAMEOS"

The word "Opera" is disclaimed apart from the mark as shown on the drawing.

For Advertising the Goods and Services of Sponsors Through a Series of Condensed Operas Through Television and Radio Broadcast Programs.

Claims use since November 1949.



### CLASS 102

### INSURANCE AND FINANCIAL

Ser. No. 629,767. Columbian Mutual Life Insurance Company, Binghamton, N. Y. Filed May 16, 1952.



The lining forms a part of the mark.

For Underwriting of Life, Health, and Accident Insurance.

Claims use since 1942.

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Ser. No. 638,468. Bankers Life Company, Des Moines, Iowa. Filed Nov. 22, 1952.




"Income Stabilizer Accident & Sickness Plans, Underwritten by the Original • • Life Company, Des Moines, Iowa" are disclaimed except in connection with the mark.

For Underwriting of Accident and Sickness Insurance.

Claims use since Oct. 17, 1952.

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Ser. No. 645,550. Columbian Mutual Life Insurance Company, Binghamton, N. Y. Filed Apr. 20, 1953.




All wording but "Columbian" is disclaimed apart from the mark as shown.

For Underwriting of Life, Health, and Accident Insurance.

Claims use since Feb. 2, 1953; since 1942 as to the ship symbol; and since 1907 as to the word "Columbian."

### CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 534,104. Gardner Displays Company, Pittsburgh, Pa. Filed Sept. 11, 1947. (Sec. 2f.)

INDUSTRIAL SHOWMANSHIP

For Designing, Constructing, Maintaining, and Repairing Displays for Industrial Exhibits.

Claims use since Oct. 15, 1937.

### CLASS 105

### TRANSPORTATION AND STORAGE

Ser. No. 638,625. Allied Van Lines, Inc., Broadview, Ill. Filed Nov. 26, 1952.



For Storage and Packing of Household Goods and for the Transportation of Household Goods by Motor Vehicle.

Claims use since Sept. 9, 1950.

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Ser. No. 640,523. Philippine Air Lines, Inc., Manila, Philippines, Honolulu, Territory of Hawaii, San Francisco, Calif., New York, N. Y., Chicago, Ill., Los Angeles, Calif., and Washington, D. C. Filed Jan. 8, 1953.

PAL

For International Air Line Transportation of Passengers and Cargo.

Claims use since May 25, 1948.

# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1905

444,785. Safety Razors. Lapin Products, Inc., Newark, N. J.
Filed July 2, 1947, Serial No. 525,604. Published Mar. 31, 1953. Class 23.

## ACT OF 1946, PRINCIPAL REGISTER

578,383. Cola Variety of Carbonated Non-Alcoholic Non-Cereal Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor. Seminole Flavor Company, Chattanooga, Tenn.
Original filed, act of 1905, Mar. 13, 1947; amended to application under act of 1946, Principal Register, Mar. 29, 1952, Serial No. 518,984. Published May 19, 1953. Class 45.

578,384. Hydraulic Decoking Systems and Apparatus for Removing Coke From Coke Chambers in Oil Refineries, Etc. Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation.
Filed July 5, 1947, Serial No. 526,727. Published May 19, 1953. Class 23.

578,385. Hydraulic Decoking Systems and Apparatus for Removing Coke From Coke Chambers in Oil Refineries, Etc. Worthington Corporation, Harrison, N. J., by change of name from Worthington Pump and Machinery Corporation.
Filed July 5, 1947, Serial No. 526,737. Published May 19, 1953. Class 23.

578,386. Woven Wire Netting for Animal Pen Fences. G. F. Wright Steel & Wire Co., Worcester, Mass.
Filed July 25, 1947, Serial No. 529,519. Published May 19, 1953. Class 13.

578,387. Compartmented Fabric Cases Held Erect by Metal Rods for Holding Different Size Accessories and Attachments for Vacuum Cleaners. Eureka Williams Corporation, Bloomington, Ill.
Filed July 26, 1947, Serial No. 529,617. Published May 19, 1953. Class 2.

578,388. Corrugated Paperboard Cartons. Triangle Paper and Box Co., Chicago, Ill.
Filed Nov. 1, 1947, Serial No. 539,916. Published May 19, 1953. Class 2.

578,389. Men's and Women's Sportswear—Namely, Sport Slacks, Sport Coats, and Ensembles Thereof. Fox-Knapp Manufacturing Co., New York, N. Y.
Filed Nov. 26, 1947, Serial No. 542,460. Published May 12, 1953. Class 39.

578,390. Scotch Whisky. John Crabbie & Co. Limited, Leith, Scotland.
Filed May 20, 1948, Serial No. 557,430. Published May 5, 1953. Class 49.

578,391. Mattresses, Box Springs, Sofa Beds, Divans, Studio Couches, Pillows, Bed Springs. Sealy, Incorporated, Chicago, Ill.
Filed May 26, 1948, Serial No. 557,871. Published May 19, 1953. Class 32.

578,392. Crib Mattresses. Nurserytyme Products, Brooklyn, N. Y.
Filed June 11, 1948, Serial No. 559,043. Published May 19, 1953. Class 32.

578,393. Snuff. George W. Helme Company, New York, N. Y.
Filed July 23, 1948, Serial No. 562,040. Published May 19, 1953. Class 17.

578,394. Snuff. George W. Helme Company, New York, N. Y.
Filed July 23, 1948, Serial No. 562,041. Published May 19, 1953. Class 17.

578,395. Snuff. George W. Helme Company, New York, N. Y.
Filed July 23, 1948, Serial No. 562,048. Published May 19, 1953. Class 17.

578,396. Snuff. George W. Helme Company, New York, N. Y.
Filed July 23, 1948, Serial No. 562,054. Published May 19, 1953. Class 17.

578,397. Wines. Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France.
Original filed, act of 1946, Supplemental Register, July 8, 1948; amended to application, Principal Register, Apr. 15, 1949, Serial No. 563,535. Published May 5, 1953. Class 47.

578,398. Wines. Societe Civile du Domaine de la Romanee-Conti, Moulins-sur-Allier, France.
Filed July 15, 1948, Serial No. 563,539. Published May 5, 1953. Class 47.

578,399. Dried Beans, Dried Peas, Rice, and Dried Lentils. Seaboard Mills, Santa Barbara, Calif.
Filed Aug. 30, 1948, Serial No. 564,406. Published May 12, 1953. Class 46.

578,400. Scum Removal Apparatus—Namely, Tiltable Troughs and Lever, Hand Wheel, and Gearing or Motor Driven Machinery for Operating the Same. Chain Belt Company, Milwaukee, Wis.
Filed Oct. 16, 1948, Serial No. 567,069. Published Apr. 28, 1953. Class 23.

578,401. Non-Alcoholic Maltless Beverages Sold as Soft Drinks, and Syrups for Making the Same. Hartman Beverage Company, Knoxville, Tenn.
Filed Nov. 12, 1948, Serial No. 568,618. Published May 5, 1953. Class 45.

578,402. Women's Hosiery. Concourse Hosiery Mills, Inc., New York, N. Y., assignor to Knothe Brothers Co. Inc., New York, N. Y., a corporation of New York.
Filed Apr. 1, 1949, Serial No. 576,448. Published July 1, 1952. Class 39.

578,403. Embossed Hardboard Used for Various Construction Purposes. Masonite Corporation, Chicago, Ill., and Laurel, Miss.
Filed Apr. 13, 1949, Serial No. 577,063. Published Jan. 13, 1953. Class 12.

578,404. Piece Goods—Namely, Muslin. Hibben Hollweg & Company, Indianapolis, Ind.
Filed Apr. 28, 1949, Serial No. 577,887. Published May 19, 1953. Class 42.

578,405. Piece Goods—Namely, Muslin. Hibben Hollweg & Company, Indianapolis, Ind.
Filed Apr. 28, 1949, Serial No. 578,064. Published May 19, 1953. Class 42.





578,406. Sprayers of Insecticides and Other Purposes, and Sprayer Parts. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed May 23, 1949, Serial No. 579,374. Published May 19, 1953. Class 23.

578,407. More or Less Purified Protein From Leguminous Seeds for Use as an Ingredient in the Manufacture of Adhesives. Glenn Davidson, Aurora, Ill.
Filed June 2, 1949, Serial No. 579,863. Published May 19, 1953. Class 5.

578,408. Wines. Berke Brothers Distilleries Inc., Boston, Mass.
Filed June 14, 1949, Serial No. 580,394. Published May 5, 1953. Class 47.

578,409. Wines. Berke Brothers Distilleries Inc., Boston, Mass.
Filed June 14, 1949, Serial No. 580,395. Published May 5, 1953. Class 47.

578,410. Cabinets for Dispensing Paper Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed June 22, 1949, Serial No. 580,871. Published May 19, 1953. Class 2.

578,411. Sand Blasting Equipment—Namely, Sand Blasting Machines. Clementina Company, San Francisco, Calif.
Filed Sept. 20, 1949, Serial No. 585,054. Published May 26, 1953. Class 23.

578,412. Finished Castings for Non-Self-Measuring Pumps and Pumping Apparatus, and Parts Thereof. E. C. Schleyer Pump Company, Inc., Anderson, Ind.
Filed Nov. 29, 1949, Serial No. 588,522. Published Apr. 28, 1953. Class 23.

578,413. Household Deodorant. Bostwick Laboratories, Inc., Bridgeport, Conn.
Filed Nov. 30, 1949, Serial No. 588,544. Published Sept. 16, 1952. Class 6.

578,414. Nonelectric Brakes and Brake Assemblies for Industrial Machinery, Etc. Borg-Warner Corporation, Chicago, Ill.
Filed Dec. 19, 1949, Serial No. 589,558. Published May 5, 1953. Class 23.

578,415. Liquid Laundry Soap. Towsley, Inc., Indianapolis, Ind., assignor, by mesne assignments, to The Squirt Company, Beverly Hills, Calif., a corporation of California.
Filed Dec. 31, 1949, Serial No. 590,241. Published Dec. 16, 1952. Class 52.

578,416. Containers Filled With Deodorant and Gas Under Pressure and Provided With Control Valves. Knapp-Monarch Company, St. Louis, Mo.
Filed Jan. 21, 1950, Serial No. 591,241. Published May 19, 1953. Class 6.

578,417. Tomato Drink Consisting of Concentrated Tomato Juice, Onion, Peppers, Parsley, Celery, Water, Sugar, Salt and Spices. Tomat-O-Pep Company, San Jose, Calif.
Filed Feb. 20, 1950, Serial No. 592,794. Published May 12, 1953. Class 46.

578,418. Wedges for Tool Handles. Red Devil Tools, Irvington, N. J.
Filed Feb. 21, 1950, Serial No. 592,841. Published May 19, 1953. Class 13.

578,419. Piece Goods—Namely, Muslin. Hibben Hollweg & Company, Indianapolis, Ind.
Filed Mar. 3, 1950, Serial No. 593,350. Published May 19, 1953. Class 42.

578,420. Piece Goods—Namely, Muslin. Hibben Hollweg & Company, Indianapolis, Ind.
Filed Mar. 3, 1950, Serial No. 593,351. Published May 19, 1953. Class 42.

578,421. Accordions; Cornets; Trumpets; Trombones, Etc. J. M. Sahlein, doing business under the trade name of J. M. Sahlein Music Company, San Francisco, Calif.
Filed Mar. 8, 1950, Serial No. 593,617. Published Apr. 14, 1953. Class 36.

578,422. Thin Leathers. Hoyt and Worthen Tanning Corporation, Haverhill, Mass.
Filed Mar. 23, 1950, Serial No. 594,462. Published May 19, 1953. Class 1.

578,423. Apparatus for Reclaiming Used Sand for Use in Foundries and the Like. National Engineering Company, Chicago, Ill.
Filed Mar. 30, 1950, Serial No. 594,916. Published May 5, 1953. Class 23.

578,424. Quick Opening and Self Closing Gate Valves, Used in Connection With Steam, Water, Oil, Air, and Gas Service. The Schaible Company, Cincinnati, Ohio.
Filed May 29, 1950, Serial No. 598,325. Published May 12, 1953. Class 13.

578,425. Liquid Treating Equipment for Industrial Application Only—Namely, Water Softeners of the Type Wherein Water Is Circulated Through a Tank Containing Zeolite or Other Water Softening Agent, Water Demineralizers of the Ion Exchange Type, Gravity and Pressure Filters, Automatic and Manual Filters. Beico Industrial Equipment Division, Inc., Paterson, N. J.
Filed June 26, 1950, Serial No. 599,740. Published May 20, 1952. Class 31.

578,426. Apple Cider. Paul J. Madigan, doing business under the name Hoosierland Orchards, Anderson, Ind.
Filed Aug. 1, 1950, Serial No. 601,550. Published May 5, 1953. Class 45.

578,427. Apparatus for Automatically Regulating the Viscosity of an Adhesive Solution, Etc. Triangle Package Machinery Company, Chicago, Ill.
Filed Aug. 1, 1950, Serial No. 601,581. Published Apr. 7, 1953. Class 26.

578,428. Woolen Suiting and Coat Fabrics in the Piece and in Cut Lengths. S. Stein & Co., Inc., New York, N. Y.
Filed Aug. 9, 1950, Serial No. 602,004. Published Aug. 19, 1952. Class 42.

578,429. Welding Rod, Cylinder Blocks, a Special Machineable Iron, and Metal Castings of All Types and Descriptions Made Therefrom. General Metallurgical Corporation, Luna Pier, Mich.
Filed Aug. 19, 1950, Serial No. 602,445. Published Apr. 28, 1953. Class 14.

578,430. Non-Alcoholic Maltless Soft Drinks—Namely, Lime Juice Cordial. Bayner & Company Limited, London, England.
Filed Aug. 25, 1950, Serial No. 602,776. Published May 19, 1953. Class 45.

578,431. Canadian Whisky. Wiser's Distillery Limited, Montreal, Quebec, Canada.
Filed Oct. 30, 1950, Serial No. 605,023. Published May 19, 1953. Class 49.

578,432. Water Softeners of the Ion Exchange Type. The Duro Co., Dayton, Ohio.
Filed Nov. 2, 1950, Serial No. 605,786. Published Apr. 28, 1953. Class 31.

578,433. Wheat Flour. Duluth Universal Milling Company, Duluth, Minn.
Filed Dec. 14, 1950, Serial No. 607,663. Published May 12, 1953. Class 46.

578,434. Power Operated Printing Presses and Parts Thereof. The Goss Printing Press Company, Chicago, Ill.
Filed Dec. 16, 1950, Serial No. 607,754. Published Feb. 17, 1953. Class 23.

578,435. Girls' Blouses, Combinations of Blouses and Slips, Skirts and Combinations of Pettlcoats and Dresses. American Blouse Co. Inc., New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,526. Published May 19, 1953. Class 39.

578,436. General Service, Spring Operated Balance Reels for Portable Tools and the Like. Appleton Electric Company, Chicago, Ill.
Filed Jan. 10, 1951, Serial No. 608,588. Published May 26, 1953. Class 23.

578,437. Lubricating Oil. Whale Oil Company Incorporated, Brooklyn, N. Y.
Filed Feb. 9, 1951, Serial No. 609,895. Published May 12, 1953. Class 15.

578,438. Materials Used in Lithographic Printing—Namely, Printers and Dryers for Photolithographic Printing Plates. A. B. Dick Company, Niles, Ill.
Filed Feb. 23, 1951, Serial No. 610,420. Published Apr. 7, 1953. Class 26.

578,439. Machine Tools of the Lathe and Boring Mill Type. The Bullard Company, Bridgeport, Conn.
Filed Apr. 26, 1951, Serial No. 613,159. Published May 26, 1953. Class 23.

578,440. Metal Guides for Filing Cabinets and Filing Drawers Suitable for Office Desks. Robert S. Daniel, trading as Commercial Visible Systems, Washington, D. C.
Filed Apr. 27, 1951, Serial No. 613,214. Published May 19, 1953. Class 32.

578,441. Field Sprinkling Apparatus Wherein the Sprinkling Apparatus Is Carried From Pipe Sections Supported by Spaced Wheels and the Pipe Sections Are Axially Mounted on Wheels, Etc. George Doppimaier, doing business as Roll Rain Co., Rio Linda, Calif.
Filed May 2, 1951, Serial No. 613,402. Published May 26, 1953. Class 13.

578,442. Instrument Which Is a Sub-Audio and Audio Spectograph Which Produces Permanent Visual Records, Etc. Kay Electric Company, Pine Brook, N. J.
Filed May 3, 1951, Serial No. 613,454. Published May 5, 1953. Class 26.

578,443. Instrument Which Is a Heterodyne Type Analyzer and Provides an Immediately Available Visual Display of the Frequency Components in Complex Audio Wave Forms and Is Useful To Indicate the Composition of Vibration and Noise Signals and Other Uses. Kay Electric Company, Pine Brook, N. J.
Filed May 3, 1951, Serial No. 613,458. Published Mar. 31, 1953. Class 26.

578,444. Instrument Which Is a Combined Sweeping Oscillator and Crystal Marker Generator, Etc. Kay Electric Company, Pine Brook, N. J.
Filed May 3, 1951, Serial No. 613,459. Published Mar. 31, 1953. Class 26.

578,445. Instrument Which Is a Calibrated Random Noise Source, Etc. Kay Electric Company, Pine Brook, N. J.
Filed May 3, 1951, Serial No. 613,460. Published Mar. 31, 1953. Class 26.

578,446. Hamper Baskets, Baby Baskets, Laundry Baskets, Picnic Baskets, and Miniature Baskets. Burlington Basket Company, Burlington, Iowa.
Filed May 4, 1951, Serial No. 613,498. Published May 12, 1953. Class 2.

578,447. Metal Casting Machines for Producing Type Bars Used in Printing, and Parts Thereof. Mergenthaler Linotype Company, Brooklyn, N. Y.
Filed June 4, 1951, Serial No. 614,707. Published May 26, 1953. Class 23.

578,448. Swatches of Woolen Textile Fabrics Circulated to the Trade and Used for Selecting Suit Fabrics. B. Kuppenheimer and Co. Inc., Chicago, Ill.
Filed June 15, 1951, Serial No. 615,230. Published May 19, 1953. Class 42.

578,449. Base Exchange Water Softeners, With and Without Filtering Material, and With and Without Taste and Odor Removal Material in Addition to the Softening Material, for Household and Industrial Use. Elgin Softener Corporation, Elgin, Ill.
Filed June 23, 1951, Serial No. 615,604. Published Apr. 7, 1953. Class 31.

578,450. Wines. Wine Growers Guild, Lodi, Calif.
Filed June 25, 1951, Serial No. 615,671. Published May 19, 1953. Class 47.

578,451. Ground Flat Metal Stock. American Saw and Manufacturing Company, Springfield, Mass.
Filed July 23, 1951, Serial No. 616,805. Published Apr. 28, 1953. Class 14.

578,452. Coal-Tar Colors. Ciba Limited, Basel, Switzerland.
Filed Aug. 2, 1951, Serial No. 617,228. Published Mar. 25, 1952. Class 6.

578,453. Women's Hosiery. Burlington Mills Corporation, Greensboro, N. C.
Filed Aug. 25, 1951, Serial No. 618,079. Published Sept. 2, 1952. Class 39.

578,454. Wines. Comunidad Viña San José-Tocornal, Santiago, Chile.
Filed Aug. 25, 1951, Serial No. 618,082. Published May 5, 1953. Class 47.

578,455. Enameled Copperware Ash Trays and Cigarette Boxes. Constance Ong, doing business as Jade Snow Wong, San Francisco, Calif.
Filed Sept. 1, 1951, Serial No. 618,324. Published May 19, 1953. Class 8.

578,456. Tooth Powder. Poloria Company, Inc., Jersey City, N. J.
Filed Sept. 13, 1951, Serial No. 618,759. Published May 19, 1953. Class 51.

578,457. Dry Coatings for Braking, Clutching and Like Surfaces, Etc. Cop-Sil-Loy, Inc., Beverly Hills, Calif.
Filed Oct. 2, 1951, Serial No. 619,500. Published May 19, 1953. Class 6.

578,458. Air Compressors. Quincy Compressor Co., Quincy, Ill.
Filed Oct. 2, 1951, Serial No. 619,519. Published May 26, 1953. Class 23.

578,459. Hydraulically-Operated Duplicators for Metal Working Machinery. Rockford Machine Tool Co., Rockford, Ill.
Filed Oct. 3, 1951, Serial No. 619,549. Published May 26, 1953. Class 23.

578,460. Piping, Pipe Fittings, Valves, Traps, Floats, Drains, Etc. Rouse Lumber and Building Co., Houston, Tex.
Filed Oct. 6, 1951, Serial No. 619,682. Published May 12, 1953. Class 13.

578,461. First Aid Eye Safety Kits Comprising a Transparent Plastic Box Containing a Magnetized Particle Remover, Etc. Sam S. Miller, doing business as Ohio First Aid and Pharmacal Company, Cleveland, Ohio.
Filed Oct. 10, 1951, Serial No. 619,843. Published May 19, 1953. Class 44.

578,462. Insoluble Granular or Bead-Like Ion Exchange and Adsorbent Materials, Etc. The Permutit Company, New York, N. Y.
Filed Oct. 11, 1951, Serial No. 619,894. Published Apr. 14, 1953. Class 31.

578,463. Upholstered Sofas, Davenports, Love Seats, Settees, Chaise Longues, Chairs, Rockers, Ottomans, Studio Couches, Day Beds, and Bed Springs. Northome Furniture Industries, Inc., Dubuque, Iowa.
Filed Oct. 22, 1951, Serial No. 620,321. Published May 19, 1953. Class 32.

578,464. Sedative. American Cyanamid Company, New York, N. Y.
Filed Nov. 3, 1951, Serial No. 620,834. Published May 19, 1953. Class 18.



578,465. Hand Operated Seed and Fertilizer Spreaders, Cultivators, Etc. The National Ideal Company, Toledo, Ohio.
Filed Nov. 6, 1951, Serial No. 620,927. Published Apr. 28, 1953. Class 23.

578,466. Metal Casting Machines for Producing Type Bars Used in Printing, and Parts Thereof. Mergenthaler Linotype Company, Brooklyn, N. Y.
Filed Nov. 14, 1951, Serial No. 621,219. Published May 26, 1953. Class 23.

578,467. Paste—Namely, Paste Used for Gluing Paper to Paper, Paper to Glass and Similar Materials, and Paste for Use in Libraries, Schools, and Offices. Allen M. Holt, III, doing business as Holt Mfg. Co., Birmingham, Ala.
Filed Nov. 16, 1951, Serial No. 621,315. Published May 19, 1953. Class 5.

578,468. Horticultural Peat Moss. Western Peat Company Limited, Lulu Island, British Columbia, Canada.
Filed Nov. 24, 1951, Serial No. 621,641. Published May 12, 1953. Class 1.

578,469. Gelatin Dessert, and a Preparation for Making Puddings. The Jel Sert Co., Chicago, Ill.
Filed Dec. 4, 1951, Serial No. 622,074. Published May 12, 1953. Class 46.

578,470. Alcoholic Cordials and Liqueurs. L. J. McGuinness & Company, Limited, Mimico, Ontario, Canada.
Filed Dec. 4, 1951, Serial No. 622,083. Published May 5, 1953. Class 49.

578,471. Sherry Wine. Findlater Mackie Todd & Co. Limited, London, England.
Filed Dec. 8, 1951, Serial No. 622,254. Published May 26, 1953. Class 47.

578,472. Relieving Fixtures for Supporting Work During Grinding and Other Operations. Glenbard Tool Mfrs., Chicago, Ill.
Filed Dec. 15, 1951, Serial No. 622,537. Published Apr. 28, 1953. Class 23.

578,473. Water Wash Compound for Preventing Adhesion of Paint to Spray Booths. Northwest Chemical Co., Inc., Detroit, Mich.
Filed Dec. 15, 1951, Serial No. 622,550. Published May 19, 1953. Class 16.

578,474. Plastic Drum Liners and Bags. Hedwin Corporation, Baltimore, Md.
Filed Dec. 17, 1951, Serial No. 622,597. Published May 12, 1953. Class 2.

578,475. Machines for Cleaning and Drying the Surfaces of Solid Material Goods—Namely, Baking Pan Washing Machines, Etc. Metalwash Machinery Company, Elizabeth, N. J.
Filed Dec. 26, 1951, Serial No. 622,841. Published May 12, 1953. Class 23.

578,476. Razors, Shears, Scissors, Knives of Base Metal, and Hair Clippers. Pearlduck, Inc., New York, N. Y.
Filed Dec. 21, 1951, Serial No. 623,630. Published May 19, 1953. Class 23.

578,477. Partially Humified Peat, of Reed and Sedge Origin, Grown in Lime Bearing Water Environment, Which Has Virtually No Alluvium or Foreign Mineral Impurities. Hyper-Humus Company, Bryn Mawr, Pa.
Filed Jan. 23, 1952, Serial No. 623,959. Published May 12, 1953. Class 1.

578,478. Fillers Used To Form a Component Part of Cigarettes. P. Lorillard Company, New York, N. Y.
Filed Jan. 25, 1952, Serial No. 624,092. Published May 19, 1953. Class 8.

578,479. Filter Cartridges and Filters. Wix Accessories Corporation, Gastonia, N. C., now by change of name Wix Corporation.
Filed Jan. 29, 1952, Serial No. 624,255. Published Apr. 14, 1953. Class 31.

578,480. Filters for Gasoline and the Like Intended Primarily for Internal Combustion Engines. Sparkler Mfg. Co., Mundelein, Ill.
Filed Feb. 8, 1952, Serial No. 624,708. Published Apr. 14, 1953. Class 31.

578,481. Sewing Machines. Nihon Mishin Seizo Kabushiki Kaisha, Mizuho-Ku Nagoya, Japan.
Filed Nov. 15, 1950, Serial No. 624,723. Published May 5, 1953. Class 23.

578,482. Hand-Operated Machines for the Processing of Meat. Lan-Elec Limited, Slough, England.
Filed Feb. 12, 1952, Serial No. 624,838. Published May 19, 1953. Class 23.

578,483. Metal Working Machines—Namely, Milling Machines Embodying a Rotary Cutter or Miller for Working on Metal and Parts Thereof. Tree Tool & Die Works, Racine, Wis.
Filed Feb. 14, 1952, Serial No. 624,982. Published May 19, 1953. Class 23.

578,484. Metal Castings of Steel and Iron. Standard Foundry Company, Racine, Wis.
Filed Feb. 18, 1952, Serial No. 625,136. Published May 5, 1953. Class 14.

578,485. Hospital Equipment—Namely, Hypodermic Syringes, Hypodermic Needles, Suture Needles, Etc. Surgicon Corporation, New York, N. Y.
Filed Feb. 19, 1952, Serial No. 625,219. Published May 12, 1953. Class 44.

578,486. Anvils. Illinois Iron & Bolt Co., Carpentersville, Ill.
Filed Feb. 20, 1952, Serial No. 625,275. Published May 12, 1953. Class 14.

578,487. Internal Combustion Engines and Parts Thereof. J. A. Prestwich & Company Limited, London and Tottenham, London, England.
Filed Feb. 20, 1952, Serial No. 625,295. Published Apr. 28, 1953. Class 23.

578,488. Protective Coating Composition for Coating Ship Cargo Tanks, Containers, Tank Cars, Etc. Emjay Maintenance Corporation, Rutherford, N. J.
Filed Feb. 25, 1952, Serial No. 625,469. Published May 19, 1953. Class 16.

578,489. Fluid Treating Pipe Line and Entrance Fittings, Etc. Evis Manufacturing Company, San Francisco, Calif.
Filed Feb. 25, 1952, Serial No. 625,470. Published May 26, 1953. Class 13.

578,490. Meat Products—Namely, Sliced Bacon, Smoked Skinned Hams, Cooked Ham Pieces, and Frankfurters. Tobin Packing Co., Inc., Rochester, N. Y., and Fort Dodge, Iowa.
Filed Feb. 25, 1952, Serial No. 625,496. Published May 12, 1953. Class 46.

578,491. Cut Flowers. Coastal Glads Farm, Fort Myers, Fla.
Filed Mar. 3, 1952, Serial No. 625,847. Published May 12, 1953. Class 1.

578,492. Citrus Flavored Soft Drinks and Concentrates for Making the Same, Etc. Sunkist Growers, Inc., Los Angeles, Calif.
Filed Mar. 5, 1952, Serial No. 626,009. Published May 26, 1953. Class 45.

578,493. Precision-Finished, Metal Gears. Indiana Gear Works Inc., Indianapolis Ind.
Filed Mar. 6, 1952, Serial No. 626,033. Published Apr. 28, 1953. Class 23.

578,494. Wyoming Type Bentonite in Powdered Form. American Colloid Company, Chicago, Ill.
Filed Mar. 8, 1952 Serial No. 626,133. Published May 12, 1953. Class 1.

578,495. Brassières. Peter Pan Foundations, Inc., New York, N. Y.
Filed Mar. 11, 1952, Serial No. 626,262. Published May 19, 1953. Class 39.

578,496. Lubricating Oil. Whale Oil Company Incorporated, Brooklyn, N. Y.
Filed Mar. 11, 1952, Serial No. 626,281. Published May 12, 1953. Class 15.

578,497. Whiskey. Jas. Barclay & Co. Limited, Detroit, Mich., and Peoria, Ill.
Filed Mar. 12, 1952, Serial No. 626,297. Published May 19, 1953. Class 49.

578,498. Domestic Refrigerators and Home Type Food Freezing Units. Skelly Oil Company, Kansas City, Mo.
Filed Mar. 12, 1952, Serial No. 626,349. Published Apr. 7, 1953. Class 31.

578,499. Invalid Wheel Chairs. Everest & Jennings, Inc., Los Angeles, Calif.
Filed Mar. 13, 1952, Serial No. 626,372. Published May 12, 1953. Class 44.

578,500. Desks and Seating Equipment—Namely, Chairs, Chairs With Folding Seats, Folding Chairs, and School Chairs. The Peabody Seating Company, Inc., North Manchester, Ind.
Filed Mar. 15, 1952, Serial No. 626,531. Published May 19, 1953. Class 32.

578,501. Metal Foil for Household Purposes. The Aluminum Cooking Utensil Company, New Kensington, Pa., assignor, by mesne assignments, to The Aluminum Cooking Utensil Company, Inc., New Kensington, Pa.
Filed Mar. 19, 1952, Serial No. 626,652. Published Apr. 28, 1953. Class 14.

578,502. Beer. Frankenmuth Brewing Company, Frankenmuth, Mich.
Filed Mar. 26, 1952, Serial No. 627,061. Published May 5, 1953. Class 48.

578,503. Inlay Pattern Material, Comprising Resinous Powder and Liquid To Be Combined To Form a Resinous Product for Use in Making Inlay Patterns. Reliance Dental Mfg. Co., Chicago, Ill.
Filed Mar. 26, 1952, Serial No. 627,084. Published May 12, 1953. Class 44.

578,504. Spring Pads or Supports in the Form of Plastic Laminates, Etc. Gordon Sales, Inc., Detroit, Mich.
Filed Mar. 27, 1952, Serial No. 627,126. Published May 19, 1953. Class 32.

578,505. Photographic Lenses. A. & S. Camera Supply Co., Inc., New York, N. Y.
Filed Mar. 28, 1952, Serial No. 627,162. Published Nov. 4, 1952. Class 26.

578,506. Fresh Frozen Fruits and Vegetables, Canned Frozen Orange Juice and Canned Frozen Pineapple Juice, and Canned Frozen Vegetable Juices. Foodways, Inc., New York, N. Y.
Filed Mar. 28, 1952, Serial No. 627,180. Published May 12, 1953. Class 46.

578,507. Metal Cutting Tool and Tool Holder Assembly Adapted for Use With Automatic Screw Machines and the Like. John J. Milo, doing business under the name and style of Jersey Manufacturing Company, Elizabeth, N. J.
Filed Apr. 1, 1952, Serial No. 627,397. Published May 5, 1953. Class 23.

578,508. Fresh Vegetables—Namely, Peppers, Eggplant, Cucumbers, Beans, Squash, and Potatoes. Biggar & Biggar, Fort Myers, Fla.
Filed Apr. 4, 1952, Serial No. 627,551. Published May 12, 1953. Class 46.

578,509. Plastic Coated Fiber Glass Sheet Material for Use in Making Lamp Shades and Ornamental Objects. Raytex Industries, Inc., Chicago, Ill.
Filed Apr. 8, 1952, Serial No. 627,774. Published May 19, 1953. Class 1.

578,510. Mask-Type Respirator Adapted To Cover the Nose and Mouth of a Wearer for Removing Dust and Other Contaminants From Air That Is Breathed by the Wearer. Mine Safety Appliances Company, Pittsburgh, Pa.
Filed Apr. 11, 1952, Serial No. 627,956. Published May 12, 1953. Class 44.

578,511. Scythes, Hand-Sickles, and Trowels. Hans G. Zelinka, doing business as Vindobona Importing Co., New York, N. Y.
Filed Apr. 14, 1952, Serial No. 628,077. Published Apr. 21, 1953. Class 23.

578,512. Medicated Liniment for Rheumatic Pains, Lumbago, and the Like. Joaquin Ramos, doing business as Universal Botanic, Brooklyn, N. Y.
Filed Apr. 16, 1952, Serial No. 628,169. Published May 19, 1953. Class 18.

578,513. Faucets and Hydrants. The James Knights Company, Sandwich, Ill.
Filed Apr. 17, 1952, Serial No. 628,212. Published May 12, 1953. Class 13.

578,514. Wines. Schenley Import Corporation, New York, N. Y.
Filed Apr. 17, 1952, Serial No. 628,225. Published May 19, 1953. Class 47.

578,515. Fire-Hose Nozzles. The McIntire Corporation, Cambridge, Mass.
Filed Apr. 19, 1952, Serial No. 628,361. Published May 12, 1953. Class 13.

578,516. Fire-Hose Nozzles. The McIntire Corporation, Cambridge, Mass.
Filed Apr. 19, 1952, Serial No. 628,362. Published May 19, 1953. Class 13.

578,517. Bourbon Whiskey. James Walsh & Company, Inc., Lawrenceburg, Ind.
Filed Apr. 22, 1952, Serial No. 628,512. Published May 19, 1953. Class 49.

578,518. Metal Cutting Tools—Namely, Hobs, Reamers, Milling Cutters. Barber-Colman Company, Rockford, Ill.
Filed Apr. 24, 1952, Serial No. 628,608. Published May 19, 1953. Class 23.

578,519. Blood-Cell Calculators. Marbel Blood Calculator Company, Chicago, Ill.
Filed Apr. 26, 1952, Serial No. 628,771. Published Mar. 31, 1953. Class 26.

578,520. Mufflers for Internal Combustion Engines and Parts Thereof—Namely, Tail Pipes, Exhaust Pipes, and Muffler Clamps. Automotive Engineering, Inc., Chicago, Ill.
Filed May 9, 1952, Serial No. 629,416. Published May 26, 1953. Class 23.

578,521. Fluid Meters. Builders Iron Foundry, Providence, R. I.
Filed May 22, 1952, Serial No. 630,057. Published Apr. 7, 1953. Class 26.

578,522. Metal Trash Cans. The F. H. Lawson Company, Cincinnati, Ohio.
Filed May 22, 1952, Serial No. 630,087. Published May 12, 1953. Class 2.

578,523. Contact Lenses. Mueller-Welt Contact Lenses, Inc., Chicago, Ill.
Filed May 23, 1952, Serial No. 630,144. Published Apr. 7, 1953. Class 26.

578,524. Canned Dog Food. Marvin Canning Company, Inc., Dallas, Tex.
Filed May 26, 1952, Serial No. 630,278. Published May 12, 1953. Class 46.

578,525. Refrigerated Display Cases for Meats and Dairy Products. McCray Refrigerator Company, Inc., Kendallville, Ind.
Filed May 28, 1952, Serial No. 630,433. Published Apr. 14, 1953. Class 31.

578,526. Tool Stands and Work Benches, All Fabricated From Steel, Said Work Benches Having Wooden Tops. United Equipment Co., Chicago, Ill.
Filed June 4, 1952, Serial No. 630,740. Published May 5, 1953. Class 23.

578,527. Liqueur. Chartreuse Corporation, New York, N. Y.
Filed June 5, 1952, Serial No. 630,757. Published May 19, 1953. Class 49.



578,528. Proportioning Controller for Supplying to a Foundry Sand Mixer Water and Sand in Automatically Predetermined Proportions According to Sand Moisture and Temperature. Hayleo Controls Corporation, Neenah, Wis.
Filed June 5, 1952, Serial No. 630,781. Published Apr. 7, 1953. Class 26.

578,529. Aluminum Foil. Arthur Doniger Paper Co., Inc., New York, N. Y.
Filed June 7, 1952, Serial No. 630,885. Published May 12, 1953. Class 14.

578,530. Textile Fabrics of Cotton, Wool, Synthetic Fibers, and Mixtures Thereof. Brand & Oppenheimer Incorporated, New York, N. Y.
Filed June 10, 1952, Serial No. 630,985. Published May 19, 1953. Class 42.

578,531. Photographic Light Meters. E. Leitz, Inc., New York, N. Y.
Filed June 10, 1952, Serial No. 631,010. Published Apr. 7, 1953. Class 26.

578,532. Clays, Particularly Bentonite. American Colloid Company, Chicago, Ill.
Filed June 26, 1952, Serial No. 631,774. Published May 12, 1953. Class 1.

578,533. Manual Stapling Machines. Spotnails, Inc., Evanston, Ill.
Filed June 26, 1952, Serial No. 631,822. Published May 19, 1953. Class 23.

578,534. Turbine Superchargers for Diesel Engines. American Locomotive Company, New York and Schenectady, N. Y.
Filed June 28, 1952, Serial No. 631,914. Published May 19, 1953. Class 23.

578,535. Fresh Berries, Frozen Fresh Berries, and Fresh Vegetables. California Berry Freezers, Inc., Watsonville, Calif.
Filed July 1, 1952, Serial No. 632,016. Published May 12, 1953. Class 46.

578,536. Beer. Galveston-Houston Breweries, Inc., Galveston, Tex.
Filed July 1, 1952, Serial No. 632,027. Published May 5, 1953. Class 48.

578,537. Ready-To-Serve Pancakes. Chickadee Pie Factory, McAllen, Tex.
Filed July 2, 1952, Serial No. 632,076. Published May 12, 1953. Class 46.

578,538. Leather. William Amer Company, Philadelphia, Pa.
Filed July 7, 1952, Serial No. 632,193. Published May 5, 1953. Class 1.

578,539. Printing Press. Carl O. Bachman, Watertown, N. Y.
Filed July 11, 1952, Serial No. 632,411. Published May 19, 1953. Class 23.

578,540. Coal. Dickson Fuel Corp., Philadelphia, Pa.
Filed July 14, 1952, Serial No. 632,509. Published May 5, 1953. Class 1.

578,541. Fresh Vegetables. Sakioka Farms, Los Angeles and West Los Angeles, Calif.
Filed July 17, 1952, Serial No. 632,691. Published May 12, 1953. Class 46.

578,542. Steel Strapping and Seals for Flat Steel Strapping. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed July 23, 1952, Serial No. 632,963. Published May 26, 1953. Class 13.

578,543. Planing Machines, Slotting Machines, Boring Machines, Screw Cutting Machines, Shearing Machines, Forging Machines, and Sewing and Stitching Machines. Fiat Società per Azioni, Turin, Italy.
Filed July 25, 1952, Serial No. 633,048. Published May 19, 1953. Class 23.

578,544. Fresh Vegetables. Albert Rossi, doing business as Al Rossi Produce Co., Gonzales, Calif.
Filed July 29, 1952, Serial No. 633,219. Published May 12, 1953. Class 46.

578,545. Women's and Children's Apparel—Namely, Vests, Briefs, Panties, Bandeaux, Slips, Nightgowns, Chemises, Petticoats, Pajamas, Negligees, and Bed Jackets. Vanity Fair Mills, Inc., Reading, Pa.
Filed July 29, 1952, Serial No. 633,231. Published May 19, 1953. Class 39.

578,546. Mice for Laboratory Use. Taconic Farms, Inc., Germantown, N. Y.
Filed July 30, 1952, Serial No. 633,278. Published May 5, 1953. Class 1.

578,547. Household and Commercial Refrigerators and Freezers. Chapman Refrigeration Manufacturers, Portland, Oreg.
Filed July 31, 1952, Serial No. 633,300. Published Apr. 14, 1953. Class 31.

578,548. Airplanes and the Structural or Body Parts of Airplanes. Temco Aircraft Corporation, Grand Prairie and Dallas, Tex.
Filed Aug. 1, 1952, Serial No. 633,395. Published May 19, 1953. Class 19.

578,549. Plastic Container Trays for Wrapped Fruit Units. See-Qual Package Corp., Brooklyn, N. Y.
Filed Aug. 7, 1952, Serial No. 633,591. Published May 12, 1953. Class 2.

578,550. Pliers. Sargent & Company, New Haven, Conn.
Filed Aug. 9, 1952, Serial No. 633,682. Published May 5, 1953. Class 23.

578,551. Food Supplement, Consisting of Various Vitamins and Minerals. Keyamin, Inc., Long Beach, Calif.
Filed Aug. 18, 1952, Serial No. 634,088. Published May 19, 1953. Class 18.

578,552. Dental Resinous Cement for Use in Bonding Inlays, Crowns, Bridges, and Facings on Tooth Structures. Reliance Dental Mfg. Co., Chicago, Ill.
Filed Aug. 20, 1952, Serial No. 634,216. Published May 12, 1953. Class 44.

578,553. Men's, Boys', and Children's Hosiery. Interwoven Stocking Company, New Brunswick, N. J.
Filed Aug. 22, 1952, Serial No. 634,329. Published Apr. 28, 1953. Class 39.

578,554. Machines and Parts Thereof for Winding Thread, Yarn, and the Like. Universal Winding Company, Cranston, R. I.
Filed Aug. 26, 1952, Serial No. 634,502. Published Apr. 28, 1953. Class 23.

578,555. Boxes for Holding Plants and Flowers. Robert A. Bushnell, Caldwell, Idaho.
Filed Sept. 2, 1952, Serial No. 634,729. Published May 12, 1953. Class 2.

578,556. Coin-Controlled Manually-Operated Vending Machines for Vending Packaged Foods and Beverages. Lunchomat Corporation of America, Dover, Del., and New York, N. Y.
Filed Sept. 5, 1952, Serial No. 634,905. Published May 19, 1953. Class 23.

578,557. Twin Emergency Chains for Trucks or Tractors. West Shore Chain Works, Inc., Carlisle and Lemoyne, Pa.
Filed Sept. 8, 1952, Serial No. 635,013. Published May 19, 1953. Class 13.

578,558. Wines. RWL Wine & Liquor Company, Incorporated, Baltimore, Md.
Filed Sept. 10, 1952, Serial No. 635,098. Published May 19, 1953. Class 47.

578,559. Leather. Malis Leather Company, Philadelphia, Pa.
Filed Sept. 17, 1952, Serial No. 635,368. Published May 5, 1953. Class 1.

578,560. Scotch Whisky. Peter Walker (Warrington) Limited, Liverpool, England.
Filed Sept. 20, 1952, Serial No. 635,561. Published May 26, 1953. Class 49.

578,561. Beer. Centlivre Brewing Corporation, Fort Wayne, Ind.
Filed Sept. 22, 1952, Serial No. 635,585. Published May 19, 1953. Class 48.

578,562. Ale. Centlivre Brewing Corporation, Fort Wayne, Ind.
Filed Sept. 22, 1952, Serial No. 635,586. Published May 19, 1953. Class 48.

578,563. Drapery and Upholstery Fabrics of Cotton, Wool, Linen, Silk, Mohair, Jute, and Synthetic Fibers. Marshall and Moore, Inc., Dallas, Tex.
Filed Sept. 22, 1952, Serial No. 635,604. Published May 19, 1953. Class 42.

578,564. Toy Guns. U. S. Plastic Co., Pasadena, Calif.
Filed Sept. 22, 1952, Serial No. 635,615. Published May 19, 1953. Class 22.

578,565. Metal Baking Sheets, Baking Pans, and Cooking Pans. Evanston Stamping Company, Evanston, Ill.
Filed Sept. 25, 1952, Serial No. 635,752. Published May 12, 1953. Class 13.

578,566. Camera Cases, Fitted Cases Designed for Photographic Accessories, Cases Equipped With Leather, Clamp and/or Other Insets To Hold Photographic Accessories, Cases for Photographic Filters, Attachable Lenses, and Lens Shades. Lederwarenfabrik Kritzler K. G., Rebbelroth, Cologne, Germany.
Filed Sept. 26, 1952, Serial No. 635,838. Published Apr. 7, 1953. Class 26.

578,567. Thermosetting Plastic Material in Sheet and Slab Form for Use in the Manufacture of Various Articles of Merchandise. United States Rubber Company, New York, N. Y.
Filed Sept. 27, 1952, Serial No. 635,890. Published May 12, 1953. Class 1.

578,568. Flock Moulding Material and Felt Moulding Material Composed of Asbestos and Synthetic Resin. Turner Brothers Asbestos Company Limited, Manchester and Rochdale, England.
Filed Sept. 29, 1952, Serial No. 635,942. Published May 19, 1953. Class 1.

578,569. Artificial Fish Baits. Glo-Lure, Inc., Medford, Wis.
Filed Oct. 1, 1952, Serial No. 636,012. Published May 19, 1953. Class 22.

578,570. Puzzles—Namely, Story Boards Featuring Depressed Squares or Pieces. The Judy Company, Minneapolis, Minn.
Filed Oct. 1, 1952, Serial No. 636,021. Published May 19, 1953. Class 22.

578,571. Artificial Fish Lures. Fury Manufacturing Company, Brighton, Mich.
Filed Oct. 2, 1952, Serial No. 636,073. Published May 19, 1953. Class 22.

578,572. Paper Household Products—Namely, Sandwich Bags, Lunch Bags, Garbage Bags, and Refrigerator Bags. Tidy-House Paper Products, Inc., Brooklyn, N. Y., now by change of name Tidy House Paper Corp. of N. Y.
Filed Oct. 3, 1952, Serial No. 636,156. Published May 12, 1953. Class 2.

578,573. Wood Encased Pencils. Eagle Pencil Company, New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,219. Published May 12, 1953. Class 37.

578,574. Wood Encased Pencils. Eagle Pencil Company, New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,221. Published May 12, 1953. Class 37.

578,575. Men's and Boys' Suits, Coats, Slacks, Sport Jackets, Top Coats, and Overcoats. Lebow Bros., Inc., Baltimore, Md.
Filed Oct. 8, 1952, Serial No. 636,366. Published May 12, 1953. Class 39.

578,576. Bronze, Aluminum, and Steel Insect Screen Cloth; Woven Steel Mesh Netting and Hardware Cloth; Welded Steel Mesh Fabric Used Primarily for Chicken Coops. Pacific Wire Products Company, Compton, Calif.
Filed Oct. 11, 1952, Serial No. 636,535. Published May 26, 1953. Class 13.

578,577. Leather. Hebb Leather Co., Inc., Boston, Mass.
Filed Oct. 13, 1952, Serial No. 636,567. Published May 19, 1953. Class 1.

578,578. Toy Model Coupling Devices—Namely, Railway Car Couplers and Track Ramps. American Model Toys, Inc., Auburn, Ind.
Filed Oct. 16, 1952, Serial No. 636,674. Published May 19, 1953. Class 22.

578,579. Traveling Bags and Suitcases. Mayfab Inc., Brooklyn, N. Y.
Filed Oct. 16, 1952, Serial No. 636,719. Published May 12, 1953. Class 3.

578,580. Various Products—Namely, Shell Eggs, Frozen Egg Whites, Frozen Egg Yolks, Frozen Whole Eggs, Powdered Whole Eggs, Etc. Washington Co-operative Farmers Association, Seattle, Wash.
Filed Oct. 16, 1952, Serial No. 636,830. Published May 12, 1953. Class 46.

578,581. Coated Paper for Printing Purposes. Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis.
Filed Oct. 18, 1952, Serial No. 636,840. Published May 12, 1953. Class 37.

578,582. Strips of Staples for Hand Operated, Desk Type Stapling Machines. The Bates Manufacturing Company, Orange, N. J.
Filed Oct. 20, 1952, Serial No. 636,875. Published May 26, 1953. Class 13.

578,583. Medicinal Preparation of Penicillin Powder With Buffered Diluent Used in the Treatment of Bacterial Infections. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,059. Published May 19, 1953. Class 18.

578,584. Medicinal Preparation of Injectable Multiple-Vitamin Used in the Therapeutic Treatment of Such Conditions as Preoperative and Postoperative Surgery, Burns, Impaired Absorption, Fever, and Certain Infections. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,061. Published May 19, 1953. Class 18.

578,585. Medicinal Preparation of Vitamins and Nutritional Factors Used in the Treatment of Chronic Alcoholism and as a Nutritional Supplement in Geriatrics and Convalescence. Eli Lilly and Company, Indianapolis, Ind.
Filed Oct. 23, 1952, Serial No. 637,063. Published May 19, 1953. Class 18.

578,586. Lawn Sprinklers. Wilton Tool Mfg. Co., Chicago, Ill.
Filed Oct. 25, 1952, Serial No. 637,199. Published May 26, 1953. Class 13.

578,587. Embossed Laminated Waterproof Paper Reinforced With Asphalt and Glass Fibre for Use in Packaging. The Cromwell Paper Company, Chicago, Ill.
Filed Oct. 30, 1952, Serial No. 637,364. Published May 12, 1953. Class 37.

578,588. Men's Suits. Mavest Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,489. Published May 12, 1953. Class 39.

578,589. Steel Curtain Track. Automatic Devices Co., Allentown, Pa.
Filed Nov. 4, 1952, Serial No. 637,563. Published May 26, 1953. Class 13.



578,590. Piece Goods of Cotton, Wool, Silk, Synthetic Fibers, and Combinations Thereof. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Nov. 6, 1952, Serial No. 637,736. Published Apr. 28, 1953. Class 42.

578,591. Coloring Material in Semi-Paste Form for Inter-Mixing, Blending, and Tinting Water Paints, Oil Paints, Enamel Paints, and Other Paint Products. Keystone Paint and Varnish Corporation, Brooklyn, N. Y.
Filed Nov. 4, 1952, Serial No. 637,598. Published May 19, 1953. Class 16.

578,592. Billfolds, Pass Cases, Purses, and Combinations Thereof. Buxton, Incorporated, Springfield, Mass.
Filed Nov. 7, 1952, Serial No. 637,750. Published May 12, 1953. Class 3.

578,593. Men's and Boys' Dress, Sport, and Work Shirts. Ely & Walker Dry Goods Company, St. Louis, Mo.
Filed Nov. 7, 1952, Serial No. 637,766. Published May 12, 1953. Class 39.

578,594. Corn Poppers. The Enterprise Aluminum Company, Massillon, Ohio.
Filed Nov. 7, 1952, Serial No. 637,767. Published May 12, 1953. Class 13.

578,595. Aluminum Insect Screen Cloth. Pacific Wire Products Company, Compton, Calif.
Filed Nov. 10, 1952, Serial No. 637,883. Published May 12, 1953. Class 13.

578,596. Coats, Vests, Trousers, Knickerbockers, Top Coats, and Overcoats for Men, Youths, and Boys. J. Schoeneman, Inc., Baltimore, Md.
Filed Nov. 12, 1952, Serial No. 637,955. Published May 12, 1953. Class 39.

578,597. Galvanized Insect Screen Cloth. Pacific Wire Products Company, Compton, Calif.
Filed Nov. 10, 1952, Serial No. 637,884. Published May 12, 1953. Class 13.

578,598. Candy. Stephen F. Whitman & Son, Inc., Philadelphia, Pa.
Filed Nov. 12, 1952, Serial No. 637,968. Published May 12, 1953. Class 46.

578,599. Garment Travel Bags. Morris L. Duskin, doing business as Century Specialty Co., Chicago, Ill.
Filed Nov. 15, 1952, Serial No. 638,136. Published May 12, 1953. Class 3.

578,600. Poultry Netting, Wire Fabric, and Wire Fence. The Colorado Fuel and Iron Corporation, Denver, Colo.
Filed Nov. 19, 1952, Serial No. 638,290. Published May 19, 1953. Class 13.

578,601. Ready Mixed Paints. Socony Paint Products Company, Raritan Township, Middlesex County, N. J.
Filed Nov. 19, 1952, Serial No. 638,322. Published May 19, 1953. Class 16.

578,602. Tungsten-Carbide and Hard Metal Blanks Used for Tipping Lathe Tools, Mining Tools, Cutting and Milling Tools, Metal Working Tools, Draw Plates, and Dies for Wire Drawing. Societe Le Carbone Lorraine, Paris, France.
Filed Nov. 19, 1952, Serial No. 638,330. Published Apr. 28, 1953. Class 14.

578,603. Whiskey. J. A. Dougherty's Sons, Inc. Distillers, also known as J. A. Dougherty's Sons, Incorporated, Philadelphia, Pa.
Filed Nov. 21, 1952, Serial No. 638,405. Published May 19, 1953. Class 49.

578,604. Fresh Apples and Fresh Peaches. Walter H. Wishard, Waynesboro, Pa.
Filed Nov. 21, 1952, Serial No. 638,461. Published May 12, 1953. Class 46.

578,605. Pneumatic Tires and Inner Tubes. United States Rubber Company, New York, N. Y.
Filed Nov. 22, 1952, Serial No. 638,504. Published May 19, 1953. Class 35.

578,606. Creme Shoe Dressing. Hart & Harrington, Inc., Chicago, Ill.
Filed Nov. 24, 1952, Serial No. 638,536. Published May 19, 1953. Class 6.

578,607. Creme Shoe Dressing. Hart & Harrington, Inc., Chicago, Ill.
Filed Nov. 24, 1952, Serial No. 638,537. Published May 19, 1953. Class 6.

578,608. Preparation for Cleaning Combs, Hair Brushes, and Jewelry. Conrad F. Clothier, doing business under the trade name and style of C. F. Clothier & Co., Philadelphia, Pa.
Filed Nov. 25, 1952, Serial No. 638,570. Published May 19, 1953. Class 52.

578,609. Automatic Transmissions. The Frank G. Hough Co., East Sunnyside, Libertyville, Ill.
Filed Nov. 25, 1952, Serial No. 638,582. Published Apr. 28, 1953. Class 23.

578,610. Billfolds, Wallets, Key Cases, and Pass Cases. I. Smallman & Sons, Paterson, N. J., and New York, N. Y.
Filed Nov. 25, 1952, Serial No. 638,610. Published May 12, 1953. Class 3.

578,611. Lubricant and Protectant for Metal Instruments. The Silicote Corporation, Oshkosh, Wis.
Filed Nov. 26, 1952, Serial No. 638,670. Published May 12, 1953. Class 15.

578,612. Materials-Handling Equipment—Namely, Trucks Actuated Horizontally and With Pick-Up, Discharge, Lifting, and Lowering Devices Utilizing Mounted Power Units. Lewis-Shepard Products, Inc., Watertown, Mass.
Filed Nov. 28, 1952, Serial No. 638,724. Published May 19, 1953. Class 23.

578,613. Materials-Handling Trucks Actuated Horizontally by Mounted Power Units and Particularly Designed To Push or Pull One or More Loaded or Unloaded Trailers or Trailer Trucks. Lewis-Shepard Products, Inc., Watertown, Mass.
Filed Nov. 28, 1952, Serial No. 638,725. Published May 19, 1953. Class 23.

578,614. Medicinal Preparation, Etc. Eli Lilly and Company, Indianapolis, Ind.
Filed Nov. 28, 1952, Serial No. 638,727. Published May 12, 1953. Class 18.

578,615. Metal Rails, Joints, and Tie Plates for Railway Tracks. The Colorado Fuel and Iron Corporation, Denver, Colo.
Filed Dec. 2, 1952, Serial No. 638,837. Published May 5, 1953. Class 14.

578,616. Dried Cheese Whey. J. H. Hobson Company, Philadelphia, Pa.
Filed Dec. 5, 1952, Serial No. 639,048. Published May 12, 1953. Class 46.

578,617. Nonfat Dry Milk Solids and Whole Milk Powder. J. H. Hobson Company, Philadelphia, Pa.
Filed Dec. 5, 1952, Serial No. 639,049. Published May 12, 1953. Class 46.

578,618. Milling Machines, Turret Lathes, Pattern and Radial Drilling Machines, Shaping Machines, Grinding Machines, and Cylinder Grinding Machines. M. I. S. A. L.-Macchine Industriali Societa Accomandita Leto, Milan, Italy.
Filed Dec. 5, 1952, Serial No. 639,063. Published Apr. 28, 1953. Class 23.

578,619. Metallic Solder in Paste Form for Tinning and/or Coating Steel, Brass, Bronze, and Copper. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Dec. 8, 1952, Serial No. 639,164. Published May 5, 1953. Class 14.

578,620. Copper, Especially in the Form of Castings. The Cananea Consolidated Copper Co., S. A., Cananea, Sonora, Mexico.
Filed Dec. 10, 1952, Serial No. 639,262. Published May 5, 1953. Class 14.

578,621. Empty Metal Containers, in the Nature of Pressure Bottles or Cylinders, for Compressed Fluids. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Dec. 11, 1952, Serial No. 639,348. Published May 12, 1953. Class 2.

578,622. Bed Comforters. Lone Star Comforters, Inc., Houston, Tex.
Filed Dec. 12, 1952, Serial No. 639,378. Published May 19, 1953. Class 42.

578,623. Paper Bags and Sacks; Containers of All Kinds Made of Paper, Etc. Gaylord Container Corporation, St. Louis, Mo.
Filed Dec. 13, 1952, Serial No. 639,424. Published May 12, 1953. Class 2.

578,624. Waxed Paper Bags. Marathon Corporation, Menasha, Wis.
Filed Dec. 15, 1952, Serial No. 639,484. Published May 12, 1953. Class 2.

578,625. Solvent Naphtha for Dry Cleaning Purposes. American Mineral Spirits Company, Chicago, Ill.
Filed Dec. 19, 1952, Serial No. 639,730. Published May 19, 1953. Class 52.

578,626. Metallic Welding Electrodes and Gas Welding Rods. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Dec. 19, 1952, Serial No. 639,750. Published May 5, 1953. Class 14.

578,627. Safety Razors and Safety Razor Blades. The Gillette Company, Boston, Mass.
Filed Dec. 19, 1952, Serial No. 639,753. Published May 5, 1953. Class 23.

578,628. Paper Cartons. Marathon Corporation, Menasha, Wis.
Filed Dec. 19, 1952, Serial No. 639,764. Published May 12, 1953. Class 2.

578,629. Solids of Waste Sulfite Liquor, for Use as an Adhesive and Adhesive Extender. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Dec. 20, 1952, Serial No. 639,810. Published May 19, 1953. Class 5.

578,630. General Cleaning Preparations in Liquid and Dry Forms Having Bleaching, Cleaning, and Disinfecting Properties. Purex Corporation, Ltd., South Gate, Calif.
Filed Dec. 20, 1952, Serial No. 639,834. Published May 19, 1953. Class 52.

578,631. Paper Bags. Union Bag & Paper Corporation, New York, N. Y.
Filed Dec. 22, 1952, Serial No. 639,909. Published May 19, 1953. Class 2.

578,632. Chemical Composition for Washing and Strengthening Nylon. Le Blanc Brothers, Lafayette, La.
Filed Dec. 23, 1952, Serial No. 639,941. Published May 19, 1953. Class 52.

578,633. Pressure Sensitive Paper Tape. Chicago Show Printing Co., doing business as Mystik Adhesive Products, Chicago, Ill.
Filed Dec. 26, 1952, Serial No. 640,035. Published May 19, 1953. Class 5.

578,634. Chemical Compounds and Compositions for Absorbing Ultraviolet Light, for Use in Light Filters. General Dyestuff Corporation, New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,396. Published May 19, 1953. Class 6.

578,635. Sodium Salt of a Synthetic Amino Acid. Bersworth Chemical Company, Framingham, Mass.
Filed Jan. 8, 1953, Serial No. 640,490. Published May 19, 1953. Class 6.

578,636. Unvulcanized Organopolysiloxane Elastomers. Dow Corning Corporation, Midland, Mich.
Filed Jan. 9, 1953, Serial No. 640,552. Published May 19, 1953. Class 6.

578,637. Unvulcanized Organopolysiloxane Elastomers. Dow Corning Corporation, Midland, Mich.
Filed Jan. 9, 1953, Serial No. 640,553. Published May 19, 1953. Class 6.

578,638. Power Driven Lawn Mowers and Parts Thereof. Paul Hainke Mfg. Co., Hutchinson, Kans.
Filed Jan. 12, 1953, Serial No. 640,628. Published May 19, 1953. Class 23.

578,639. Stabilizer for Ice Cream and Other Confections. Swift & Company, Chicago, Ill.
Filed Jan. 15, 1953, Serial No. 640,818. Published May 12, 1953. Class 46.

578,640. Synthetic Resinous Compositions for Use in the Industrial Arts. Marbon Corporation, Gary, Ind.
Filed Feb. 12, 1953, Serial No. 642,150. Published May 19, 1953. Class 6.

578,641. Air Hose. Goodall Rubber Company, Trenton, N. J.
Filed Feb. 19, 1953, Serial No. 642,466. Published May 19, 1953. Class 35.

578,642. House Trailers. Zimmer Boat & Trailer Co., Detroit, Mich.
Filed Mar. 16, 1953, Serial No. 643,751. Published May 19, 1953. Class 19.

### Service Marks

578,643. Leasing Machines and Equipment To Be Used in Treating Fruit and Vegetables To Inhibit Decay Therein During Shipment; Etc. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed Nov. 30, 1949, Serial No. 588,370. Published May 19, 1953. Class 100.

578,644. Restaurant Service. Peter Pan Ice Cream & Sandwich Shop, Inc., Chicago, Ill., assignor, by mesne assignments, to Peter Pan Restaurants, Inc., a corporation of Delaware.
Filed Sept. 20, 1950, Serial No. 604,218. Published May 19, 1953. Class 100.

578,645. Consulting Engineering and Architectural Services; Developing and Designing New Equipment and Machinery; and Designing Factory Buildings. Anderson-Nichols & Company, Boston, Mass.
Filed Mar. 1, 1951, Serial No. 610,665. Published May 19, 1953. Class 100.

578,646. Engineering Services in the Design of Industrial Furnaces and Parts and Accessories Thereof. Bigelow-Liptak Corporation, Detroit, Mich.
Filed Aug. 27, 1951, Serial No. 618,107. Published May 19, 1953. Class 100.

578,647. Air Transport Service for the Carriage of Passengers, Goods, and Mail. Koninklijke Luchtvaart Maatschappij N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y.
Filed Oct. 5, 1951, Serial No. 619,628. Published May 19, 1953. Class 105.

578,648. Educational Service in the Nature of Lectures Relating to the Subject of Human Relations. Elwood Chapman, Ontario, Calif.
Filed Apr. 21, 1952, Serial No. 628,394. Published May 19, 1953. Class 107.

578,649. Underwriting of Fire and Other Kinds of Property Insurance. Central Mutual Insurance Company, Van Wert, Ohio.
Filed May 14, 1952, Serial No. 629,650. Published May 19, 1953. Class 102.

578,650. Restaurant Services. El Chico Cafe, Dallas, Tex.
Filed Oct. 27, 1952, Serial No. 637,100. Published May 19, 1953. Class 100.



578,651. Providing and Distributing Funds as Grants to Institutions To Support Research Programs and to Individuals as Fellowships To Finance Their Training in the Study of Cancer. American Cancer Society, Inc., New York, N. Y.
Filed Nov. 10, 1952, Serial No. 637,856. Published May 19, 1953. Class 102.

### Erratum

For registration of Ray Gillum Enterprises, Inc., on the Principal Register see Trade-Mark Registration No. 578,706.

### Collective Marks

578,652. Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity. The Chi Phi Fraternity, Atlanta, Ga.
Filed May 4, 1950, Serial No. 596,834. Published May 19, 1953. Class 100.

578,653. Instructing in the Game of Golf and for an Entertainment Service in the Nature of Golfing Exhibitions. The Professional Golfers' Association of America, Chicago, Ill.
Filed Jan. 3, 1952, Serial No. 623,154. Published May 10, 1953. Class 107.

## ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

578,654. (Class 37. Paper and Stationery.) Lee Paper Company, Vicksburg, Mich. Original filed, act of 1946, Principal Register, May 12, 1948; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 556,901.

WASHINGTON BOND

Applicant claims ownership of Registration No. 401,307.
For Bond Paper.
Claims use since Aug. 8, 1905.

578,655. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Cardwell Manufacturing Company, Inc., Wichita, Kans. Original filed, act of 1946, Principal Register, July 27, 1948; amended to application, Supplemental Register, Apr. 2, 1953, Serial No. 562,248.

TRAILERIG

For Wheeled Rig for Servicing and Drilling Wells Comprising a Derrick, Hoisting Engine, Cables, Mechanical Cable Drums, Catheads, and a Rotary Table, Sold as a Unit.
Claims use since Apr. 8, 1948.

578,656. (Class 39. Clothing.) The L. V. Marks & Sons Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Mar. 24, 1949; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 576,003.

Natural Walkers

For Women's Shoes of Leather, Fabric, and Combinations of These Materials.
Claims use since Aug. 15, 1944.

578,657. (Class 47. Wines.) Jack Poust & Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 8, 1949; amended to application, Supplemental Register, Feb. 10, 1951, Serial No. 580,145.

Blackberry Julep

For Blackberry Wine.
Claims use since Sept. 1, 1948.

578,658. (Class 47. Wines.) California Cellars, doing business as Napa & Sonoma Wine Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, Feb. 7, 1950; amended to application, Supplemental Register, Aug. 13, 1951, Serial No. 592,072.




Applicant claims ownership of Registration No. 392,458.
For Wines.
Claims use since 1910.

578,659. (Class 47. Wines.) Jack Poust & Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 21, 1950; amended to application, Supplemental Register, Feb. 10, 1951, Serial No. 592,838.

Cherry Julep

For Cherry Wine.
Claims use since Jan. 25, 1950.

578,621. Empty Metal Containers, in the Nature of Pressure Bottles or Cylinders, for Compressed Fluids. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Dec. 11, 1952, Serial No. 639,348. Published May 12, 1953. Class 2.

578,622. Bed Comforters. Lone Star Comforters, Inc., Houston, Tex.
Filed Dec. 12, 1952, Serial No. 639,378. Published May 19, 1953. Class 42.

578,623. Paper Bags and Sacks; Containers of All Kinds Made of Paper, Etc. Gaylord Container Corporation, St. Louis, Mo.
Filed Dec. 13, 1952, Serial No. 639,424. Published May 12, 1953. Class 2.

578,624. Waxed Paper Bags. Marathon Corporation, Menasha, Wis.
Filed Dec. 15, 1952, Serial No. 639,484. Published May 12, 1953. Class 2.

578,625. Solvent Naphtha for Dry Cleaning Purposes. American Mineral Spirits Company, Chicago, Ill.
Filed Dec. 19, 1952, Serial No. 639,730. Published May 19, 1953. Class 52.

578,626. Metallic Welding Electrodes and Gas Welding Rods. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Dec. 19, 1952, Serial No. 639,750. Published May 5, 1953. Class 14.

578,627. Safety Razors and Safety Razor Blades. The Gillette Company, Boston, Mass.
Filed Dec. 19, 1952, Serial No. 639,753. Published May 5, 1953. Class 23.

578,628. Paper Cartons. Marathon Corporation, Menasha, Wis.
Filed Dec. 19, 1952, Serial No. 639,764. Published May 12, 1953. Class 2.

578,629. Solids of Waste Sulfite Liquor, for Use as an Adhesive and Adhesive Extender. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Dec. 20, 1952, Serial No. 639,810. Published May 19, 1953. Class 5.

578,630. General Cleaning Preparations in Liquid and Dry Forms Having Bleaching, Cleaning, and Disinfecting Properties. Purex Corporation, Ltd., South Gate, Calif.
Filed Dec. 20, 1952, Serial No. 639,834. Published May 19, 1953. Class 52.

578,631. Paper Bags. Union Bag & Paper Corporation, New York, N. Y.
Filed Dec. 22, 1952, Serial No. 639,909. Published May 19, 1953. Class 2.

578,632. Chemical Composition for Washing and Strengthening Nylon. Le Blanc Brothers, Lafayette, La.
Filed Dec. 23, 1952, Serial No. 639,941. Published May 19, 1953. Class 52.

578,633. Pressure Sensitive Paper Tape. Chicago Show Printing Co., doing business as Myatik Adhesive Products, Chicago, Ill.
Filed Dec. 26, 1952, Serial No. 640,035. Published May 19, 1953. Class 5.

578,634. Chemical Compounds and Compositions for Absorbing Ultraviolet Light, for Use in Light Filters. General Dyestuff Corporation, New York, N. Y.
Filed Jan. 6, 1953, Serial No. 640,396. Published May 19, 1953. Class 6.

578,635. Sodium Salt of a Synthetic Amino Acid. Berkworth Chemical Company, Framingham, Mass.
Filed Jan. 8, 1953, Serial No. 640,490. Published May 19, 1953. Class 6.

578,636. Unvulcanized Organopolysiloxane Elastomers. Dow Corning Corporation, Midland, Mich.
Filed Jan. 9, 1953, Serial No. 640,552. Published May 19, 1953. Class 6.

578,637. Unvulcanized Organopolysiloxane Elastomers. Dow Corning Corporation, Midland, Mich.
Filed Jan. 9, 1953, Serial No. 640,553. Published May 19, 1953. Class 6.

578,638. Power Driven Lawn Mowers and Parts Thereof. Paul Hainke Mfg. Co., Hutchinson, Kans.
Filed Jan. 12, 1953, Serial No. 640,628. Published May 19, 1953. Class 23.

578,639. Stabilizer for Ice Cream and Other Confections. Swift & Company, Chicago, Ill.
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578,640. Synthetic Resinous Compositions for Use in the Industrial Arts. Marbon Corporation, Gary, Ind.
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578,641. Air Hose. Goodall Rubber Company, Trenton, N. J.
Filed Feb. 19, 1953, Serial No. 642,466. Published May 19, 1953. Class 35.

578,642. House Trailers. Zimmer Boat & Trailer Co., Detroit, Mich.
Filed Mar. 16, 1953, Serial No. 643,751. Published May 19, 1953. Class 19.

### Service Marks

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Filed Nov. 30, 1949, Serial No. 588,570. Published May 19, 1953. Class 100.

578,644. Restaurant Service. Peter Pan Ice Cream & Sandwich Shop, Inc., Chicago, Ill., assignor, by mesne assignments, to Peter Pan Restaurants, Inc., a corporation of Delaware.
Filed Sept. 29, 1950, Serial No. 604,218. Published May 19, 1953. Class 100.

578,645. Consulting Engineering and Architectural Services; Developing and Designing New Equipment and Machinery; and Designing Factory Buildings. Anderson-Nichols & Company, Boston, Mass.
Filed Mar. 1, 1951, Serial No. 610,665. Published May 19, 1953. Class 100.

578,646. Engineering Services in the Design of Industrial Furnaces and Parts and Accessories Thereof. Bigelow-Liptak Corporation, Detroit, Mich.
Filed Aug. 27, 1951, Serial No. 618,107. Published May 19, 1953. Class 100.

578,647. Air Transport Service for the Carriage of Passengers, Goods, and Mail. Koninklijke Luchtvaart Maatschappij N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y.
Filed Oct. 5, 1951, Serial No. 619,628. Published May 19, 1953. Class 105.

578,648. Educational Service in the Nature of Lectures Relating to the Subject of Human Relations. Elwood Chapman, Ontario, Calif.
Filed Apr. 21, 1952, Serial No. 628,394. Published May 19, 1953. Class 107.

578,649. Underwriting of Fire and Other Kinds of Property Insurance. Central Mutual Insurance Company, Van Wert, Ohio.
Filed May 14, 1952, Serial No. 629,650. Published May 19, 1953. Class 102.

578,650. Restaurant Services. El Chico Cafe, Dallas, Tex.
Filed Oct. 27, 1952, Serial No. 637,100. Published May 19, 1953. Class 100.



578,651. Providing and Distributing Funds as Grants to Institutions To Support Research Programs and to Individuals as Fellowships To Finance Their Training in the Study of Cancer. American Cancer Society, Inc., New York, N. Y.
Filed Nov. 10, 1952, Serial No. 637,856. Published May 19, 1953. Class 102.

### Erratum

For registration of Ray Gillum Enterprises, Inc., on the Principal Register see Trade-Mark Registration No. 578,706.

### Collective Marks

578,652. Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity. The Chi Phi Fraternity, Atlanta, Ga.
Filed May 4, 1950, Serial No. 596,834. Published May 19, 1953. Class 100.

578,653. Instructing in the Game of Golf and for an Entertainment Service in the Nature of Golfing Exhibitions. The Professional Golfers' Association of America, Chicago, Ill.
Filed Jan. 3, 1952, Serial No. 623,154. Published May 19, 1953. Class 107.

## ACT OF 1946, SUPPLEMENTAL REGISTER

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578,654. (Class 37. Paper and Stationery.) Lee Paper Company, Vicksburg, Mich. Original filed, act of 1946, Principal Register, May 12, 1948; amended to application, Supplemental Register, Feb. 17, 1953, Serial No. 556,901.

WASHINGTON BOND

Applicant claims ownership of Registration No. 401,307.
For Bond Paper.
Claims use since Aug. 8, 1905.

578,655. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Cardwell Manufacturing Company, Inc., Wichita, Kans. Original filed, act of 1946, Principal Register, July 27, 1948; amended to application, Supplemental Register, Apr. 2, 1953, Serial No. 562,248.

TRAILERIG

For Wheeled Rig for Servicing and Drilling Wells Comprising a Derrick, Hoisting Engine, Cables, Mechanical Cable Drums, Catheads, and a Rotary Table, Sold as a Unit.
Claims use since Apr. 8, 1948.

578,656. (Class 39. Clothing.) The L. V. Marks & Sons Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Mar. 24, 1949; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 576,003.

Natural Walkers

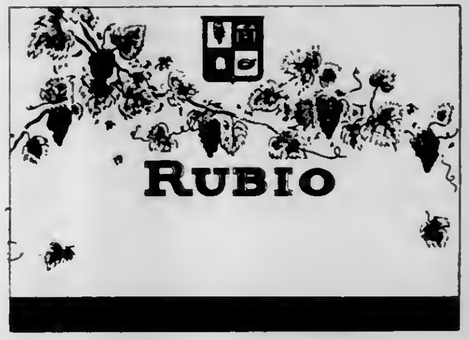
For Women's Shoes of Leather, Fabric, and Combinations of These Materials.
Claims use since Aug. 15, 1944.

578,657. (Class 47. Wines.) Jack Poust & Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 8, 1949; amended to application, Supplemental Register, Feb. 10, 1951, Serial No. 580,145.

Blackberry Julep

For Blackberry Wine.
Claims use since Sept. 1, 1948.

578,658. (Class 47. Wines.) California Cellars, doing business as Napa & Sonoma Wine Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, Feb. 7, 1950; amended to application, Supplemental Register, Aug. 13, 1951, Serial No. 592,072.




Applicant claims ownership of Registration No. 392,458.
For Wines.
Claims use since 1910.

578,659. (Class 47. Wines.) Jack Poust & Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 21, 1950; amended to application, Supplemental Register, Feb. 10, 1951, Serial No. 592,838.

Cherry Julep

For Cherry Wine.
Claims use since Jan. 25, 1950.

578,660. (Class 39. Clothing.) Diamond Full-Fashioned Hosiery Co., Inc., High Point, N. C., and New York, N. Y., now by change of name Diamond Hosiery Corp. Original filed, act of 1946, Principal Register, Apr. 13, 1950; amended to application, Supplemental Register, June 30, 1952, Serial No. 595,657.




For Women's and Girls' Hosiery.
Claims use since Mar. 8, 1950.

578,661. (Class 15. Oils and Greases.) Testor Chemical Co., Rockford, Ill. Original filed, act of 1946, Principal Register, June 3, 1950; amended to application, Supplemental Register, Apr. 29, 1953, Serial No. 598,552.

TESTORS
"39"

For High Test Aviation Type Gasoline Intended for Use as Fuel for Model Airplane Engines.
Claims use since Sept. 1, 1949.

578,662. (Class 39. Clothing.) A. Harris and Co., Dallas, Tex. Original filed, act of 1946, Principal Register, June 16, 1950; amended to application, Supplemental Register, June 14, 1953, Serial No. 599,241.

TEXAS BRANDS

For Women's Shirts.
Claims use since Jan. 6, 1950.

578,663. (Class 8. Smokers' Articles Not Including Tobacco Products.) John B. Henasey, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 25, 1950; amended to application, Supplemental Register, May 18, 1953, Serial No. 602,761.

SAF-T-SMOK

For Ash Trays.
Claims use since Feb. 15, 1950.

578,664. (Class 39. Clothing.) The Leon Godchaux Clothing Company Limited, New Orleans, La. Original filed, act of 1946, Principal Register, Oct. 13, 1950; amended to application, Supplemental Register, Aug. 25, 1952, Serial No. 604,844.

SHEER KOOL

For Men's Clothing To Wit, Men's Suits, Men's Coats, and Trousers.
Claims use since Sept. 11, 1950.

578,665. (Class 46. Foods and Ingredients of Foods.) The Grand Union Company, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 25, 1950; amended to application, Supplemental Register, Apr. 20, 1952, Serial No. 605,416.

Quality Maid

For Butter and Fresh Eggs.
Claims use since January 1935.

578,666. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Slip-Not Belting Corporation, Kingsport, Tenn. Original filed, act of 1946, Principal Register, Nov. 20, 1950; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 606,837.



The trade-mark is characterized by a yellow stripe extending along one edge of the check strap. The drawing is lined to indicate yellow.
For Check Straps for Looms.
Claims use since Sept. 1, 1950.

578,667. (Class 37. Paper and Stationery.) Wausau Paper Mills Company, Brokaw, Wis. Original filed, act of 1946, Principal Register, Dec. 6, 1950; amended to application, Supplemental Register, Feb. 14, 1952, Serial No. 607,363.

MIMEOGRAF

For Bond, Vellum, Mimeograph, Stencil, Duplicating, and Copying Paper.
Claims use since Nov. 9, 1950.

578,668. (Class 37. Paper and Stationery.) P. O Moore, Inc., New York, N. Y. Filed Jan. 6, 1951, Serial No. 608,462.

MOORE KEY CONTROL

Applicant claims ownership of Registration No. 540,613.
For Partially Printed Index Cards.
Claims use since Mar. 11, 1949.

578,669. (Class 37. Paper and Stationery.) Ever Ready Label Corporation, Belleville, N. J. Original filed, act of 1946, Principal Register, Feb. 8, 1951; amended to application, Supplemental Register, Feb. 10, 1953, Serial No. 609,791.

RED-E-STIK

For Blank and Partially Printed Adhesive Labels.
Claims use since Nov. 15, 1950.



578,670. (Class 8. Smokers' Articles, Not Including Tobacco Products.) C. C. Manufacturing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 3, 1951; amended to application, Supplemental Register, Oct. 2, 1952, Serial No. 612,154.

HANDI-HOLDER

For Smokers' Ash Tray.
Claims use since Feb. 7, 1951.

578,671. (Class 39. Clothing.) Miss Junior Coats, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 3, 1951; amended to application, Supplemental Register, Apr. 9, 1952, Serial No. 612,175.

Storm-Jac

For Girls' and Misses' Coats and Jackets.
Claims use since Mar. 5, 1951.

578,672. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) William J. McHugh, Export, Pa. Original filed, act of 1946, Principal Register, May 17, 1951; amended to application, Supplemental Register, June 12, 1952, Serial No. 614,002.

NO-RIV-IT

For Plastic Casings for the Display of Animal Identification Tags.
Claims use since Jan. 3, 1951.

578,673. (Class 40. Fancy Goods, Furnishings, and Notions.) Standard Ribbon Co., New York, N. Y. Original filed, act of 1946, Principal Register, June 22, 1951; amended to application, Supplemental Register, June 21, 1952, Serial No. 615,581.

wash-prufe

For Seam Binding.
Claims use since May 8, 1951.

578,674. (Class 12. Construction Materials.) The Home Window Company, Fostoria, Ohio. Original filed, act of 1946, Principal Register, July 24, 1951; amended to application, Supplemental Register, Apr. 8, 1953, Serial No. 616,854.

Home Seal

For Combination Storm Windows and Screens.
Claims use since Oct. 8, 1947.

578,675. (Class 21. Electrical Apparatus, Machines, and Supplies.) N. V. Pope's Draad- en Lampenfabrieken, Venlo, Netherlands. Original filed, act of 1946, Principal Register, Aug. 10, 1951; amended to application, Supplemental Register, June 10, 1953, Serial No. 617,552.




Applicant claims ownership of Dutch Registration No. 92,003, dated Apr. 15, 1948.
For Electric Incandescent Lamps, Discharge Lamps; Auxiliary Apparatus for Use in the Electric Lighting Field—Namely, Choke-Coils, Condensers, Transformers, Resistances, Ignition-Switches, Safety-Fuses, and Safety-Starters; Lighting Fixtures and Parts Thereof—Namely, Mounting Rails, Starter Sockets, Lamp Sockets, Louvres, Side Screens, Side Panels, and Searchlights; Discharge Tubes, Particularly Radio Tubes; Electric Cycle Lighting Sets—Namely, Dynamos, Reflectors, Head Light Lamps, and Rearlights; Insulated and Uninsulated Electric Wire Including Coil Winding Wires, Mounting Wire, Resistance Wire, Copper Wire, Sealing Wire, and Telephone Wires and Cables.

578,676. (Class 32. Furniture and Upholstery.) The Eastern Venetian Blind Company, Baltimore, Md. Original filed, act of 1946, Principal Register, Aug. 14, 1951; amended to application, Supplemental Register, Dec. 16, 1952, Serial No. 617,058.

Konseal-Kap

For Venetian Blinds.
Claims use since January 1949.

578,677. (Class 32. Furniture and Upholstery.) The Eastern Venetian Blind Company, Baltimore, Md. Original filed, act of 1946, Principal Register, Aug. 22, 1951; amended to application, Supplemental Register, Dec. 16, 1952, Serial No. 617,953.

ROLLA-HEAD

For Venetian Blinds.
Claims use since February 1948.

578,678. (Class 38. Prints and Publications.) Pointers Publishing Company, Inc., Nashville, Tenn. Original filed, act of 1946, Principal Register, Aug. 24, 1951; amended to application, Supplemental Register, July 28, 1952, Serial No. 618,075.

Concession

For Periodic Publication.
Claims use since July 9, 1951.

578,679. (Class 49. Distilled Alcoholic Liquors.) José Arechabala, S. A., Cardenas, Matanzas, Cuba. Filed Nov. 20, 1951, Serial No. 621,465.

Havana Club
CUBAN
Rum
PRODUCT OF CUBA
DISTILLED AND BOTTLED BY
José Arechabala S.A.
CARDENAS, CUBA

The drawing is lined for yellow-beige and red. Applicant claims ownership of Registrations Nos. 335,919, 324,385, and 315,596.
For Rum.
Claims use since June 3, 1950.

578,680. (Class 49. Distilled Alcoholic Liquors.) José Arechabala, S. A., Cardenas, Matanzas, Cuba. Filed Nov. 20, 1951, Serial No. 621,466.

Havana Club
CUBAN
Rum
PRODUCT OF CUBA
DISTILLED AND BOTTLED BY
José Arechabala S.A.
CARDENAS, CUBA

The drawing is lined for red. Applicant claims ownership of Registrations Nos. 335,919, 324,385, and 315,596.
For Rum.
Claims use since June 3, 1950.

578,681. (Class 39. Clothing.) The Coward Shoe, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 21, 1951; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 621,502.

Foam-maid

For Women's Shoes.
Claims use since Jan. 11, 1951.

578,682. (Class 39. Clothing.) The Coward Shoe, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 21, 1951; amended to application, Supplemental Register, Apr. 17, 1953, Serial No. 621,503.

Tuff-Tops

For Women's Shoes.
Claims use since Oct. 13, 1951.

578,683. (Class 38. Prints and Publications.) Norman Sternberg, Newark, N. J. Original filed, act of 1946, Principal Register, Jan. 23, 1952; amended to application, Supplemental Register, Dec. 23, 1952, Serial No. 623,992.

FINANCIAL SECURITY

For Life Insurance Bulletins, Published Monthly for the Use of Life Underwriters.
Claims use since Dec. 3, 1949.



578,684. (Class 38. Prints and Publications.) Norman Sternberg, Newark, N. J. Original filed, act of 1946, Principal Register, Jan. 23, 1952; amended to application, Supplemental Register, Dec. 23, 1952, Serial No. 623,993.

SECURITY
FOR YOUR FAMILY FOR YOUR FUTURE

For Life Insurance Bulletins Published Monthly for the Use of Life Underwriters.
Claims use since Feb. 4, 1948.

578,685. (Class 12. Construction Materials.) The Torgun Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 16, 1952; amended to application, Supplemental Register, Mar. 11, 1953, Serial No. 625,083.

PIN-BOARD

For High Density Wood Fibre Hardboard With Perforated Holes, Suitable for Use in the Manufacture of Furniture, Cabinets, Partitions, Toys, Prefabricated Houses, and Advertising Displays.
Claims use since Jan. 24, 1952.

578,686. (Class 22. Games, Toys, and Sporting Goods.) C. Ashley Cook, Portland, Oreg. Original filed, act of 1946, Principal Register, Feb. 18, 1952; amended to application, Supplemental Register, June 16, 1953, Serial No. 625,098.




The representation of the goods is disclaimed except in connection with the mark. The figure of the boy is fanciful.
For Rocking Horses.
Claims use since Nov. 20, 1951.

578,687. (Class 39. Clothing.) H. M. Allison Company, Brookline, Mass. Original filed, act of 1946, Principal Register, Mar. 13, 1952; amended to application, Supplemental Register, Mar. 4, 1953, Serial No. 626,361.

HAF-A-JAMA
BOSTON

The drawing is lined for red and blue.
For Sleeping Garments—Namely, Pajama Coats and Pajama Trousers, Sold Separately.
Claims use since Feb. 21, 1952.

578,688. (Class 52. Detergents and Soaps.) Kem Spray Cleaner Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Mar. 17, 1952; amended to application, Supplemental Register, May 29, 1953, Serial No. 626,578.

Spray Sponge

For Cleaning Compound for Upholstered Household Furniture, Rugs, and All Other Leather and Cloth Upholstery.
Claims use since Oct. 23, 1951.

578,689. (Class 46. Foods and Ingredients of Foods.) Southern States Cooperative, Incorporated, Richmond, Va. Original filed, act of 1946, Principal Register, Mar. 27, 1952; amended to application, Supplemental Register, Feb. 2, 1953, Serial No. 627,151.

BROILER-DEVELOPER

For Poultry Feed.
Claims use since Dec. 26, 1950.

578,690. (Class 46. Foods and Ingredients of Foods.) Daniel Mahoney, doing business under the trade-name "Mangan's," Plymouth, Pa. Original filed, act of 1946, Principal Register, Apr. 2, 1952; amended to application, Supplemental Register, Mar. 3, 1953, Serial No. 627,450.

MANGAN'S
HOT
MUSTARD

The words "Hot Mustard" are disclaimed.
For Prepared Mustard Consisting of Mustard Seed, White Pepper, Horse Radish, Salt, Turmeric, Vinegar, Water, and Spices.
Claims use since Jan. 23, 1952.

578,691. (Class 22. Games, Toys, and Sporting Goods.) The United States Playing Card Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Apr. 26, 1952; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 628,791.




Applicant claims ownership of Registrations Nos. 522,851, 151,272, and others.
For Playing Cards.
Claims use since Sept. 1, 1949.

578,692. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Statler Mfg. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, May 10, 1952; amended to application, Supplemental Register, Mar. 19, 1953, Serial No. 629,532.

FOLD-UP

For Wallet Inserts.
Claims use since July 10, 1951.

578,693. (Class 46. Foods and Ingredients of Foods.) Victory Packing Co., Los Angeles, Calif. Original filed, act of 1946, Principal Register, May 31, 1952; amended to application, Supplemental Register, June 12, 1953, Serial No. 630,555.

DUVAL

For Canned Chopped Horse Meat With Chili Sauce, Without Beans; Canned Chopped Horse Meat With Rice and Juices; Canned Chopped Horse Meat With Barbecue Sauce and Cereal Added.
Claims use since Feb. 8, 1952.

578,694. (Class 12. Construction Materials.) Tamko Asphalt Products, Inc., Joplin, Mo. Original filed, act of 1946, Principal Register, June 25, 1952; amended to application, Supplemental Register, May 13, 1953, Serial No. 631,764.




For Asphalt Shingles, Asphalt Sidings, Roll Roofings, Saturated Felt, and Asphalt Cement.
Claims use since January 1946.

578,695. (Class 21. Electrical Apparatus, Machines, and Supplies.) Cable Electric Products, Inc., Providence, R. I. Original filed, act of 1946, Principal Register, July 9, 1952; amended to application, Supplemental Register, June 2, 1953, Serial No. 632,288.

SPEED-LOK

For Transformers.
Claims use since May 12, 1952.

578,696. (Class 46. Foods and Ingredients of Foods.) Hunter Packing Co., East St. Louis, Ill. Original filed, act of 1946, Principal Register, July 16, 1952; amended to application, Supplemental Register, Apr. 29, 1953, Serial No. 632,619.




The words "Fresh," "Frozen," and "Steaks," and the numeral "2" are disclaimed. The drawing is lined for red. Applicant claims ownership of Registrations Nos. 363,560, 556,254, and others.
For Frozen Beef.
Claims use since Oct. 11, 1950.

578,697. (Class 17. Tobacco Products.) Rothmans Limited, London, England. Original filed, act of 1946, Principal Register, Aug. 6, 1952; amended to application, Supplemental Register, Feb. 6, 1953, Serial No. 633,558.

ROTHMANS

Applicant claims ownership of British Registration No. 496,819, dated Nov. 8, 1928.
For Cigarettes, Cigars, and Smoking Tobacco.



578,698. (Class 12. Construction Materials.) Fleming & Sons, Inc., Dallas, Tex. Original filed, act of 1946, Principal Register, Aug. 28, 1952; amended to application, Supplemental Register, Apr. 29, 1953, Serial No. 634,583.




For Decorative Panel Boards of Paper Base Material Used on Walls and Ceilings.
Claims use since Nov. 19, 1951.

578,699. (Class 46. Foods and Ingredients of Foods.) Ch. Gervais, Société Anonyme, Paris, France. Original filed, act of 1946, Principal Register, Oct. 14, 1952; amended to application, Supplemental Register, June 16, 1953, Serial No. 636,585.

GERVAIS

Applicant claims ownership of French Registration No. 341,692, dated Sept. 28, 1942.
For Cheese and Milk Products—Namely, Dry Milk, Concentrated and Condensed Milk.

578,700. (Class 46. Foods and Ingredients of Foods.) Paul D. Jones, Inc., doing business under the name Paul Jones, Inc., Hollandale, Minn. Filed Jan. 5, 1953, Serial No. 640,343.




For Onions In Their Natural State.
Claims use since September 1939.

578,701. (Class 38. Prints and Publications.) Hnire Publishing Company, New York, N. Y. Filed Feb. 2, 1953, Serial No. 641,618.

PREMIUM BUYERS' GUIDE

For Monthly Magazine.
Claims use since March 1950.

578,702. (Class 39. Clothing.) H. H. Brown Shoe Co., Inc., Worcester, Mass. Filed Jan. 23, 1953, Serial No. 642,441.

EZY-WORK
EZY-WORK

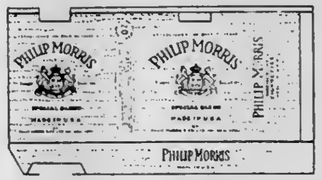
For Men's and Boys' Shoes.
Claims use since Jan. 1, 1950.

578,703. (Class 46. Foods and Ingredients of Foods.) Clement Bros., Lewisville, Idaho. Original filed, act of 1946, Principal Register, Mar. 12, 1953; amended to application, Supplemental Register, May 29, 1953, Serial No. 643,535.

IDAHOAN

For Raw Potatoes.
Claims use since December 1951.

578,704. (Class 17. Tobacco Products.) Philip Morris & Co. Ltd., Incorporated, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 30, 1953; amended to application, Supplemental Register, May 27, 1953, Serial No. 644,432.




Applicant claims ownership of Registrations Nos. 173,131, 329,436, and others.
For Cigarettes.
Claims use since Feb. 9, 1953, as to the mark in its present form and since 1883 as to "Philip Morris," the color brown, and the combination thereof.

**Service Marks**

578,705. (Class 105. Transportation and Storage.) Koninklijke Luchtvaart Maatschappij, N. V., also known as K. L. M. Royal Dutch Airlines, The Hague, Netherlands, and New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 5, 1951; amended to application, Supplemental Register, June 5, 1953, Serial No. 619,627.

SleepAir

For Air Transport Service for the Carriage of Passengers, Goods, and Mail.
Claims use since on or about Apr. 4, 1951.

578,706. Advertising the Goods and Services of Others Through the Medium of Television and Radio Programs. Roy Gillum Enterprises, Inc., Baltimore, Md. Filed Mar. 6, 1952, Serial No. 626,029. Published May 5, 1953. Class 101.

378,707. (Class 100. Miscellaneous.) Gilbert H. Corbeille, doing business as Corbeille Interiors, Washington, D. C., assignor to Corbeille Interiors, Inc., a corporation of Delaware. Filed Oct. 1, 1952, Serial No. 635,999.

Corbeille
INTERIORS

The word "Interiors" is disclaimed apart from the service mark as shown.

For Creating and Suggesting Designs and Plans for the Interior Decoration and Furnishing of Houses, Offices, and Other Buildings, Counselling Clients Thereon, and Supervising the Execution Thereof.

Claims use since Jan. 19, 1951.

578,708. (Class 105. Transportation and Storage.) John W. Rollins, trading as Rollins Fleet Leasing and also as John W. Rollins & Associates, Rehoboth Beach, Del. Original filed, act of 1946, Principal Register, Dec. 17, 1952; amended to application, Supplemental Register, June 5, 1953, Serial No. 639,659.

TROUBLES CEASE
WHEN YOU LEASE

For Leasing Passenger Cars, Station Wagons, Commercial Vehicles, and Trucks.

Claims use since Oct. 17, 1951.

## TRADE-MARK REGISTRATIONS RENEWED

40,303. REPRESENTATION OF HUMAN FOOT HAVING SANDAL STRAPPED TO BOTTOM, ETC. Registered May 12, 1903. Hervey E. Guptill, Haverhill, Mass. Re-renewed May 12, 1953, to Goodyear Footwear Corporation, Providence, R. I., a corporation of Delaware. Ladies' Leather Boots and Shoes. Class 39.

40,433. FIREFLY. Registered May 26, 1903. Turner Brothers, Limited, Spotland, Rochdale, England. Re-renewed May 26, 1953, to Turner Brothers Asbestos Company Limited, Manchester, England, a corporation organized under the laws of Great Britain. Packings, Jointing Materials, and Miscellaneous Packings Made of Asbestos, Hemp, Cotton, and Other Materials. Class 35.

40,619. PEPSI—COLA. Registered June 16, 1903. Caleb D. Bradham, Newbern, N. C. Re-renewed June 16, 1953, to Pepsi-Cola Company, New York, N. Y., a corporation of Delaware. Flavoring Syrup for Soda Water. Class 45.

91,105. "MORGAN'S CRUCIBLE" ETC. AND DESIGN. Registered Apr. 15, 1913. The Morgan Crucible Company Limited, Battersea, London, England. Re-renewed Apr. 15, 1953, to The Morgan Crucible Company Limited, London, England, a company organized under the laws of Great Britain. Crucibles. Class 26.

92,121. KRAVEMOR. Registered June 17, 1913. C. C. Porter. Re-renewed June 17, 1953, to Coca-Cola Bottling Company, Holdrege, Nebr., a corporation of Nebraska. Carbonated Beverages. Class 45.

92,123. AMAMI. Registered June 17, 1913. Prichard & Constance (Wholesale) Ltd., London, England. Re-renewed June 17, 1953, to Eno-Scott & Bowne, Bloomfield, N. J., a corporation of New Jersey. Vanishing Creams, Brilliantine, Liquid, Paste, and Powder Dentifrices, Scented Toilet Lotions, Etc. Class 51.

92,330. "VOLCANO" AND DESIGN. Registered July 1, 1913. Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Re-renewed July 1, 1953. Wheat Flour. Class 46.

92,830. "NATURE'S FIT" ETC. AND DESIGN. Registered July 29, 1913. The Richmond Underwear Co., Richmond, Ind. Re-renewed July 29, 1953, to The Atlas Underwear Company, Piqua, Ohio, a corporation of Ohio. Knitted Underwear. Class 39.

299,887. SILVER-GLO. Registered Dec. 27, 1932. The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Renewed Dec. 27, 1952. Ready Mixed Paints. Class 16.

300,023. "COAL ROLLER" AND DESIGN. Registered Jan. 3, 1933. The Granger Medicine Co., Inc., New Iberia, La., a corporation of Louisiana. Renewed Jan. 3, 1953. Pills for Headache, Dizziness, Biliousness, Torpid Liver, Constipation, and Dyspepsia. Class 18.

300,755. "TEA TIME" AND DESIGN. Registered Feb. 7, 1933. Thomas G. McMahon, doing business as Thos. G. McMahon & Co. Renewed Feb. 7, 1953, to Thomas G. McMahon & Co., Inc., Utica, N. Y., a corporation of New York. Canned Fruits, Honey, Food-Flavoring Extracts, Jams, Jellies, Fruit Preserves, Etc. Class 46.

300,882. "POLO" AND DESIGN. Registered Feb. 14, 1933. Polo Produce Company. Renewed Feb. 14, 1953, to Polo Produce Inc., Chicago, Ill., a corporation of Illinois. Dressed Poultry. Class 46.

301,149. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Strings for Violins and Similar Instruments. Class 36.

301,150. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Precious Metals, Such as Gold, Silver, Platinum, and Non-Precious Metals, Such as Copper, Etc. Class 14.

301,151. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Fuel Oils, Lubricating Oils, Lubricating Greases, Etc. Class 15.

301,152. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Dry and Ready Mixed Paints and Paint Pigments Used in the Manufacture of Paints, Varnishes, Etc. Class 4.

301,153. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Airplanes, Motor Boats, Sail Boats, Row Boats, and Canoes, Automobiles, Bicycles, and Their Structural Parts. Class 19.

301,154. "DEGUSSA" AND DESIGN. Registered Feb. 21, 1933. Deutsche Gold- & Silber-Scheideanstalt, Frankfort-on-the-Main, Germany. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Feb. 21, 1953. Armatures; Insulation Materials for Electric Wires, Electric Fans, Electric Signs, Etc. Class 21.



301,529. VITAMINERALIS. Registered Mar. 7, 1933. Marco Aurelio Herradora, doing business as Unite Pharmaceutique Francaise, New York, N. Y. Renewed Mar. 7, 1953, to Vitaminerals, Inc., Glendale, Calif., a corporation of California. Medicine for Internal Use, to wit, Vitamin Rich Tonic and Reconstructant. Class 18.

302,581. "LITTLE TEACHER" AND DESIGN. Registered Apr. 25, 1933. Ettelbrick Shoe Manufacturing Co., Casey, Ill. Renewed Apr. 25, 1953, to J. C. Penney Company, New York, N. Y., a corporation of Delaware. Infants' Shoes of Leather, Fabric, or Combination of Such Materials. Class 39.

303,028. "PENFINE MIMEO" ETC. Registered May 9, 1933. Goldsmith Bros., New York, N. Y., a corporation of New York. Renewed May 9, 1953. Writing and Typewriting Paper. Class 37.

303,186. HERCULES. Registered May 16, 1933. The Hercules Cycle and Motor Company Limited, Birmingham, England, a corporation organized under the laws of England. Renewed May 16, 1953. Cycles—Namely, Bicycles, Tricycles, Motorcycles, and Side-Cars Therefor. Class 19.

303,320. "OPS COMPANY" AND DESIGN. Registered May 23, 1933. Od Peacock Sultan Company, St. Louis, Mo. Renewed May 23, 1953, to Natcon Industries, Inc., New York, N. Y., a corporation of New York. Pharmaceutical Preparations—Namely, Sanmetto, Bromides, Cactina Pillets, Etc. Class 18.

303,395. "OLIVE OIL" ETC. AND DESIGN. Registered May 23, 1933. United Drug Company, Boston, Mass. Renewed May 23, 1953, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Olive Oil. Class 46.

303,405. OX HIDE. Registered May 23, 1933. J. C. Penney Company, Wilmington, Del., and New York, N. Y. Renewed May 23, 1953, to J. C. Penney Company, New York, N. Y., a corporation of Delaware. Men's and Boys' Work Shirts, Work Pants, Work Suits, and Play Suits. Class 39.

303,714. SAN-NAP-PAK. Registered June 6, 1933. San-Nap-Pak Mfg. Co. Inc. Renewed June 6, 1953, to Doeskin Products, Inc., New York, N. Y., a corporation of New York. Sanitary Napkins and Sanitary Belts. Class 44.

304,148. "RKD" ETC. Registered June 20, 1933. Arcady Laboratories, Inc. Renewed June 20, 1953, to Arcady Farms Milling Company, Chicago, Ill., a corporation of Illinois. Medicinal Preparations for Animals and Poultry. Class 18.

304,373. NEEDLETONE. Registered July 4, 1933. Siegel Brothers, Inc. Renewed July 4, 1953, to Leeds Ltd. Coats, Inc., New York, N. Y., a corporation of New York. Misses' and Ladies' Coats. Class 39.

304,653. TEC-ANTI-FREEZE. Registered July 11, 1933. Tennessee Eastman Corporation, Kingsport, Tenn. Renewed July 11, 1953, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Anti-Freeze Compound. Class 6.

304,758. ROYCO. Registered July 18, 1933. Royal Estates Tea Co. Renewed July 18, 1953, to Thomas J. Lipton, Inc., Hoboken, N. J., a corporation of Delaware. Tea. Class 46.

305,100. AULTCRAFT. Registered Aug. 1, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Aug. 1, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers. Class 16.

305,101. AULFLEX. Registered Aug. 1, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Aug. 1, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers. Class 16.

305,102. AULTEX. Registered Aug. 1, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Aug. 1, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers. Class 16.

305,103. AULTONE. Registered Aug. 1, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Aug. 1, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers. Class 16.

305,104. AULT & WIBORG. Registered Aug. 1, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Aug. 1, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers. Class 16.

305,105. WIBORITE. Registered Aug. 1, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Aug. 1, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Dry, Paste, and Ready-Mixed Paints; Paint Enamels, Varnishes, Lacquers, and Paint Primers. Class 16.

305,197. ANGELINA. Registered Aug. 8, 1933. Francesco Cappellino. Renewed Aug. 8, 1953, to Francesco Cappellino & Sons, Rochester, N. Y., a firm. Olive Oil. Class 46.

305,218. A&W. Registered Aug. 8, 1933. The Ault & Wiborg Company. Renewed Aug. 8, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Carbon Paper, Typewriter Ribbons, Inks—Namely, Writing Inks, Printing Inks, and Stamp Pad Inks, Duplicator Ribbons, and Stamp Pads. Class 11.

305,772. BRAND-EM-OL. Registered Aug. 22, 1933. The O. M. Franklin Blackleg Serum Company. Renewed Aug. 22, 1953, to O. M. Franklin Serum Company, Denver, Colo., a corporation of Colorado. Beanding Liquid. Class 6.

306,122. GREY-ROCK HIWAY. Registered Sept. 5, 1933. Raybestos-Manhattan, Inc., Passaic, N. J., a corporation of New Jersey. Renewed Sept. 5, 1953. Brake Linings. Class 35.

306,173. "RING-O-GOLD" ETC. AND DESIGN. Registered Sept. 12, 1933. Elgin Foods, Incorporated, Elgin, Ill., a corporation of Illinois. Renewed Sept. 12, 1953. Prepared Flours, for Use in Making Doughnuts and the Like. Class 46.

306,418. MILLRITE. Registered Sept. 19, 1933. Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Renewed Sept. 19, 1953, to Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Wheat Flour. Class 46.

306,421. OFFICIAL. Registered Sept. 19, 1933. Fisher Flouring Mills Company, West Waterway, Harbor Island, Seattle, Wash. Renewed Sept. 19, 1953, to Fisher Flouring Mills Company, Seattle, Wash., a corporation of Washington. Wheat Flour. Class 46.

306,484. HYGEEN INSOLE. Registered Sept. 19, 1933. Hood Rubber Company, Inc., Wilmington, Del., and Watertown, Mass. Renewed Sept. 19, 1953, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Athletic Footwear Made of Rubber and Fabric, of the Type Commonly Referred to as Tennis Shoes and Insoles Therefor. Class 39.

306,810. "DRY LONDON GIN" ETC. AND DESIGN. Registered Sept. 26, 1933. Reid, Wright & Holloway (Distillers) Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Sept. 26, 1953. Gin. Class 49.

306,911. PRIDE OF LA VERNE. Registered Oct. 3, 1933. La Verne Co-operative Citrus Association, La Verne, Calif., a corporation of California. Renewed Oct. 3, 1953. Fresh Citrus Fruit. Class 46.

306,920. LUVOHL. Registered Oct. 3, 1933. Lubran Oil Corporation, Brooklyn, N. Y., a corporation of New York. Renewed Oct. 3, 1953. Upper Motor Lubricants. Class 15.

306,921. "XLO" AND OVAL DESIGN. Registered Oct. 3, 1933. Ex-Cell-O Aircraft & Tool Corporation. Renewed Oct. 3, 1953, to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan. Automatic Screw Machine Products Such as Screws, Bolts, Shafts, Pins, Bushings, Etc. Class 23.

307,109. PROTEKTOL. Registered Oct. 17, 1933. The Ault & Wiborg Varnish Works, Inc. Renewed Oct. 17, 1953, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Varnishes, Treated Oils Used as Paint Vehicles, Bronzing Liquids, Synthetic Resin Compositions, Dry and Ready Mixed Paints, and Paint Enamels. Class 16.

307,316. BROMSALIZOL. Registered Oct. 24, 1933. Hynson, Westcott & Dunning, Incorporated, Baltimore, Md., a corporation of Maryland. Renewed Oct. 24, 1953. Bromine Derivatives of Saligenin. Class 18.

307,357. AMERT. Registered Oct. 24, 1933. The Great American Tea Company, New York, N. Y., a corporation of New York. Renewed Oct. 24, 1953. Canned Food Products—Namely, Evaporated Milk, Baked Beans, Red Beans, Lima Beans, Etc. Class 46.

307,377. "GLEN-TACHETÉ" ETC. AND DESIGN. Registered Oct. 24, 1933. Sayles Finishing Plants, Inc., Saylesville, R. I. Renewed Oct. 24, 1953, to Sayles Finishing Plants, Inc., Saylesville, R. I., and New York, N. Y., a corporation of Rhode Island. Piece Goods of Cotton, Linen, Silk, Rayon, and Woolen Mixtures. Class 42.

307,408. "MULTILITH" AND DESIGN. Registered Oct. 24, 1933. Multigraph Company, Wilmington, Del., and Cleveland, Ohio. Renewed Oct. 24, 1953, to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware. Chemicals for Use in Planographic Printing. Class 6.

307,550. ARISTALOY. Registered Oct. 31, 1933. Baker & Company, Inc., Newark, N. J., a corporation of New Jersey. Renewed Oct. 31, 1953. Dental Alloy for Amalgams. Class 44.

307,636. TRIANGLE DESIGN. Registered Oct. 31, 1933. Atkins & Durbrow, Inc., New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Peat Moss Used as Poultry Litter, Stable Bedding, Hoof Stuffing, and by Nurserymen, Florists, and Gardeners. Class 1.

307,700. "HERALD CIGARETTES" ETC. AND DESIGN. Registered Oct. 31, 1933. Stephano Brothers, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Oct. 31, 1953. Cigarettes. Class 17.

307,746. "ROCK ASPHALT" ETC. AND DESIGN. Registered Oct. 31, 1933. The Interstate Amiesite Co., Inc., Wilmington, Del., a corporation of Delaware. Renewed Oct. 31, 1953. Bituminous Paving Material. Class 12.

307,735. BRAZOS. Registered Oct. 31, 1933. Standard-Coosa-Thatcher Company, Chattanooga, Tenn., a corporation of Tennessee. Renewed Oct. 31, 1953. Cotton Thread. Class 43.

307,742. FORSTONE. Registered Oct. 31, 1933. Forstmann Woolen Co. Renewed Oct. 31, 1953, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

307,869. AMPHYL. Registered Nov. 7, 1933. Lehn & Fink, Inc. Renewed Nov. 7, 1953, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Antiseptic and Disinfectant Preparation Recommended for Germicidal and Sterilizing Uses; Etc. Class 51.

## TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

370,755. "BOZEMAN'S BIG P'S" AND DESIGN. Registered Sept. 5, 1939. Bozeman Canning Company, Mount Vernon, Wash. Canned Peas. Class 46. Canceled July 1, 1953. Section 7(d).

373,480. "BOZEMAN'S LITTLE P'S" AND DESIGN. Registered Dec. 12, 1939. Bozeman Canning Company, Bozeman, Mont., and Mount Vernon, Wash. Canned Peas. Class 46. Canceled July 1, 1953. Section 7(d).

390,067. SEDGWICK. Registered Sept. 2, 1941. Alperin Strauss Co., New York, N. Y. Dress, Negligee, and Work Shirts, and Pajamas. Class 39. Canceled June 19, 1953. Section 7(d).

408,716. YOUR HEROES AND MINE. Registered Aug. 29, 1944. Louis R. Millo, Baltimore, Md. Newspaper Articles. Class 38. Canceled July 9, 1953. Section 37.

423,680. VICTORLITE. Registered Sept. 10, 1946. Victorlite Industries, Los Angeles, Calif. Still Picture Projecting Machines for Instructional Uses. Class 26. Canceled June 12, 1953. Canc. No. 6002.

439,492. "DEER KOTE" AND DESIGN. Registered June 29, 1948. The Hettrick Manufacturing Company, Toledo, Ohio. Hunting Coats. Class 39. Canceled June 22, 1953. Section 7(d).

502,306. EMPIRE. Registered Sept. 21, 1948. Empire Shield Company, Inc., New York, N. Y. Rubber Crib Sheets and Table Covers of Plastic Film. Class 42. Canceled June 25, 1953. Through Intf. No. 5001, Sec. 18.

528,498. PER-AMMO. Registered Aug. 1, 1950. Lehn & Fink Products Corporation, Bloomfield, N. J. Ammoniated Medicinal Dentifrice. Class 18. Canceled June 23, 1953. Section 7(d).

530,031. DUMONT. Registered Aug. 29, 1950. Star-Lite Merchandise Co., New York, N. Y. Hosiery and Underwear, for Men, Women and Children. Class 39. Canceled July 3, 1953. Canc. No. 5698.

## TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

307,008. RÉSYL. Registered Oct. 10, 1933. Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical Product for the Treatment of Affections of the Respiratory Organs. Class 6. The drawing is hereby amended to appear as follows:

RESYL

398,201. NO. 600. Registered Oct. 13, 1942. The Solvay Process Company, New York, N. Y. Preparations Used as Cleansing Agents for General Household and Industrial Cleansing Purposes. Class 4. The drawing is hereby amended to appear as follows:

600

549,180. BUD. Registered Oct. 9, 1951. Anheuser-Busch, Inc., St. Louis, Mo. Table Syrup. Class 46. Corrected as follows: In the statement, column 2, the date of use paragraph should be deleted and *The trade-mark was first used by applicant's wholly owned subsidiary, Southern Syrup Company, Inc., located at 314 Girod Street, New Orleans, Louisiana, on the goods specified on December 31, 1934, and first used on said goods in commerce among the several States on January 8, 1935.* should be inserted in lieu thereof.

561,467. LIGNOSTONE. Registered July 15, 1952. Maatschappij Ago N. V., Ter-Apel, Netherlands. Parts of Textile Machinery Etc. Class 23. Corrected as follows: In the statement, line 11, "stocks" should be *sticks*.

## TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

### CLASS 15

### OILS AND GREASES

Reg. No. 302,248. Registered Apr. 4, 1933. Petroleum Heat and Power Company, New York, N. Y. Republished by Pittston Oil Company, Inc., New York, N. Y., a corporation of New York.

PETROFUEL

The word "Fuel" is disclaimed apart from the mark as shown.

For Heating-Furnace Oils.

Claims use since Nov. 10, 1932.

Reg. No. 354,784. Registered Feb. 22, 1938. Louis M. Goldman, doing business as Lou-Boh Company, Chicago, Ill. Republished by registrant.




For Lubricating Oils.

Claims use since July 24, 1937.

### CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 301,847. Registered Mar. 14, 1933. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

VITRALEX

For Paint Enamels.

Claims use since Oct. 12, 1932.

### CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 263,729. Registered Nov. 12, 1929. Landon P. Smith, Inc., Irvington, N. J. Republished by Red Devil Tools, Irvington, N. J., a corporation of New Jersey.

Red Devil

The drawing is lined for red, but color is unessential.

For Tools for Driving Glazier Points and for Driving Glazier Points in Picture Framing.

Claims use since on or about June 1, 1926.

Reg. No. 284,809. Registered July 7, 1931. The Todd Company, Inc., Rochester, N. Y., a corporation of New York. Republished by registrant.

Todd

For Check-Protecting Machines and Check-Signing Machines.
Claims use since 1925.

Reg. No. 295,432. Registered June 28, 1932. Pope Machinery Corporation, Haverhill, Mass., a corporation of Massachusetts. Republished by registrant.

For Shoe Machinery.
Claims use since Aug. 15, 1930.

## CLASS 24

### LAUNDRY APPLIANCES AND MACHINES

Reg. No. 287,649. Registered Sept. 29, 1931. Maude T. Kelley, Mount Vernon, N. Y. Republished by Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts.

UNDE' WASHER

The word "Washer" is disclaimed apart from the mark as shown.
For Washing Devices—Namely, Clothes Agitators or Pounders.
Claims use since Mar. 4, 1931.

## CLASS 37

### PAPER AND STATIONERY

Reg. No. 264,006. Registered Nov. 12, 1929. White & Wyckoff Manufacturing Company, Holyoke, Mass., a corporation of Massachusetts. Republished by registrant.

PAR VALUE

For Bond Paper.
Claims use since June 27, 1929.

Reg. No. 294,297. Registered May 24, 1932. The Todd Company, Inc., Rochester, N. Y., a corporation of New York. Republished by registrant.

Todd

For Business Forms—Namely, Checks, Drafts, Money Orders, Safety Paper, Letter and Bill Heads, Pass Books, Permanent and Looseleaf Bookbinders, and Check Book Covers.
Claims use since about September 1925.

## CLASS 39

### CLOTHING

Reg. No. 224,748. Registered Mar. 1, 1927. Fashion Frocks, Inc., Cincinnati, Ohio, a corporation of Ohio. Republished by registrant.

FASHION FROCKS

"Charmingly Different"

The words "Fashion Frocks" and "Charmingly Different" are disclaimed apart from the mark as shown.
For Women's and Children's Dresses.
Claims use since on or about Sept. 1, 1925.

Reg. No. 392,760. Registered Jan. 13, 1942. The Sherman Bros. Mfg. Co., South Norwalk, Conn., a corporation of Connecticut. Republished by registrant.

Shaggies

For Fabric and Leather Shoes and Slippers.
Claims use since January 1941.



## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 113,278. Registered Oct. 10, 1916. Merrimack Manufacturing Company, Lowell, Mass. Republished by Merrimack Manufacturing Company (1952), Lowell, Mass., a corporation of Massachusetts.

For Cotton Piece Goods.
Claims use since June 29, 1916.

Reg. No. 118,903. Registered Oct. 9, 1917. Merrimack Manufacturing Company, Lowell, Mass. Republished by Merrimack Manufacturing Company (1952), Lowell, Mass., a corporation of Massachusetts.

MERRIMACK

For Corduroys, Pile Fabrics, Fustians, Khakis, Velveteens, and Cotton Piece Goods.
Claims use since 1822.



Reg. No. 314,731. Registered July 3, 1934. Marshall Field & Company, Chicago, Ill. Republished by Merrimack Manufacturing Company (1952), Lowell, Mass., a corporation of Massachusetts.

DURBAR

For Wilton Pile Fabrics, Specifically Carpets and Rugs.
Claims use since May 5, 1909.

## CLASS 52

### DETERGENTS AND SOAPS

Reg. No. 292,032. Registered Mar. 1, 1932. W. F. Young, Inc., Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

Absorbine

For Soap.
Claims use since July 1, 1931.

Reg. No. 293,816. Registered May 3, 1932. W. F. Young, Inc., Springfield, Mass., a corporation of Massachusetts. Republished by registrant.

For Soap.
Claims use since July 1, 1931.

# PLANT PATENTS

## GRANTED AUGUST 11, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,210

**PEACH TREE**

**Lloyd Louis Frye, Yuba City, Calif.**

**Application September 12, 1952, Serial No. 309,391**

**1 Claim. (Cl. 47—62)**

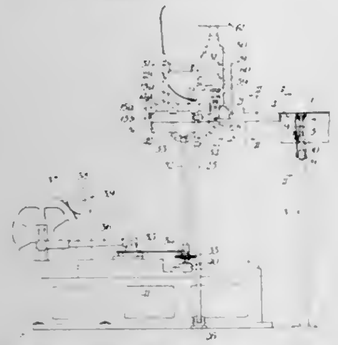
A new and distinct variety of peach tree substantially as described and illustrated, characterized by its general similarity in tree and fruit with the Paloro peach but dominantly distinguished therefrom by a ripening period substantially twelve days earlier.

# PATENTS

GRANTED AUGUST 11, 1953

## GENERAL AND MECHANICAL

**2,648,064**
**IMPROVEMENTS IN WIRE-STAPLING MACHINE**
**William James Cuthbert, Enfield, England, assignor of one-half to British Brehmer Limited, Enfield, England, a British company**
**Application December 24, 1951, Serial No. 263,067**
**In Great Britain January 1, 1951**
**3 Claims. (Cl. 1—7)**



1. In a wire-stapling machine for attaching loose sheets in the production of books, periodicals and the like, the combination of a stitcher head for applying staples to said sheets, an angularly adjustable conveyor way for supporting said sheets whilst the latter are fed through a stitching position for the application of said staples, a pair of co-operating feed members arranged to grip said sheets on the side of the stitch line remote from said stitcher head, for the purpose of feeding said sheets along the conveyor way through said stitching position, means for supporting said cooperating feed members in sheet gripping relation to said conveyor way in the various angularly adjusted positions of the latter, and means for intermittently actuating said feed members in synchronism with the stitcher head.

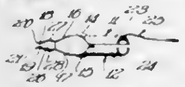
**2,648,065**
**SURGICAL LIGATURE APPLICATOR**
**Wilhelm Stichs, Hanau (Main), Germany, assignor, by mesne assignments, of one-third to The Elwood Research Company, a division of Chiselhurst, Inc., Newark, N. J., a corporation of New Jersey**
**Application November 3, 1951, Serial No. 254,715**
**6 Claims. (Cl. 1—49.1)**

1. Clip forceps of the magazine type, comprising a hollow substantially rectangularly shaped magazine adapted to contain clips, a clip feeder member within said magazine, spring urged feeding means mounted within said magazine and arranged to urge said feeder member toward one end of said magazine, a pair of clamping arms affixed to the upper portion of said forceps and extending in spaced substantially parallel relationship with said magazine one on each side thereof, said arms including crimping portions at the lower ends thereof, a longitudinal guide slot in said magazine, a guide pin slidable in said slot, leverage means including a pair of solid links pivotally mounted at one end, one on each of said arms adjacent the lower ends thereof, said links being pinned together to said guide pin at their other ends, said links being of



equal length and so proportioned as to allow for the spreading of the crimping portions of the clamping arms to uncover the open end of the magazine, and lock means mounted on said magazine including a shoulder stop portion positionable in the path of movement of the guide stop pin to prevent complete outward movement of the arms.

**2,648,066**
**MAGNETIC NAIL HOLDER**
**Robert P. Ingraham, San Antonio, Tex.**
**Application August 18, 1951, Serial No. 242,550**
**4 Claims. (Cl. 1—49.8)**



1. A magnetic nail holder assembly comprising a permanent magnet, a pair of arms secured to opposite poles of said magnet, the ends of said arms being flared outwardly to receive and hold a nail thereagainst, and a handle extending from said arms at an obtuse angle to said arms.

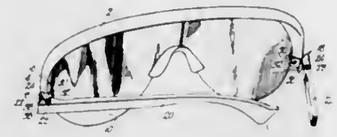
**2,648,067**
**HINGE STRUCTURE FOR GOGGLES**
**Alfred F. Parmelee, Kansas City, Mo., assignor to Parmelee Plastics Company, Kansas City, Mo., a corporation of Missouri**
**Application November 19, 1951, Serial No. 257,156**
**6 Claims. (Cl. 2—14)**

1. In an eye shield, a lens having a pair of flanges in angular relation; a bracket bearing



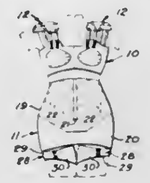


against both flanges and having a pair of legs; a temple bow between said legs; a pin joining



said legs and passing through the temple bow for pivotally joining the temple bow to the bracket; and means for attaching the bracket to the lens

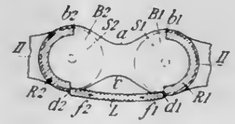
**2,648,068**
**FOUNDATION GARMENT FOR WOMEN**
**Mary Louisa Schwoerer, Irvington, N. J.**
**Application May 1, 1950, Serial No. 159,163**
**1 Claim. (Cl. 2—30)**



A one-piece foundation garment for women comprising, in combination, a girdle and a brassière waist and leg bands, the girdle comprising an elastic tubular member for the lower abdomen and hips and small of the back of the wearer, an inelastic member for the upper abdomen coacting with said elastic member, said inelastic member being slit vertically at the front from the top downwardly, means for releasably securing the slit edges together, means for securing said inelastic member to said elastic member and adapted to leave coacting flaps on the inelastic member at the back of the wearer, and means for adjustably securing the flaps together; the brassière waist comprising a second inelastic member for the upper portion of the body of the wearer, said second mentioned inelastic member being slit vertically at the front, means for releasably securing said slit edges together, means for securing the bottom marginal edge of said second mentioned inelastic member to the top marginal edge of the elastic member of the girdle at the back of the wearer, and means for supporting said second mentioned inelastic member over the shoulders of the wearer; the leg bands comprising an elastic segment for each side of the first mentioned elastic member at the bottom, means for securing each elastic segment intermediate the ends thereof to said first mentioned elastic member, and an inelastic segment removably disposed intermediate the ends of each elastic segment.

**2,648,069**
**BRASSIÈRE**
**Marie Marguerite Gil née Dambrun, Amsterdam, Netherlands**
**Application July 19, 1951, Serial No. 237,591**
**In France July 29, 1950**
**2 Claims. (Cl. 2—42)**

1. In a brassière including two breast caps of flexible material, joined together at their inner edges over a width substantially less than the base diameter of said caps, and a frontal elastic member extending between and attached to the lower borders of said caps, said elastic member being adapted to be in tension when the brassière is in place, the combination in each said cap of a reinforcement of inextensible fabric having the shape substantially of half a frustum of a cone and covering the inside surface of the outer part of the respective cap, the



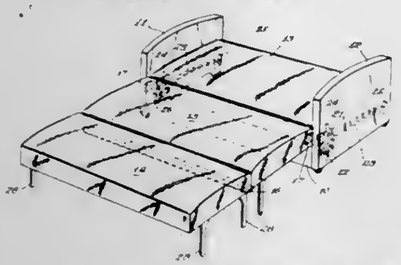
arcuate inner edge of each said reinforcement extending concavely from the middle of the upper border of the respective cap to the middle of the lower border thereof and defining a contour at substantially half breast-height, each said reinforcement thus being adapted to espouse and support the outer curve of the breast from the base up to substantially half-way to the point of the breast.

**2,648,070**
**BRASSIÈRE**
**Wilhelm Blank, Goppingen, Wurttemberg, Germany**
**Application August 8, 1951, Serial No. 240,904**
**1 Claim. (Cl. 2—42)**



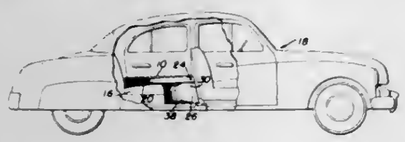
A brassière comprising a pair of breast pockets joined by substantially straight inner edges, each of said pockets having a curved upper edge, a substantially straight outer edge and a curved bottom edge and are shaped approximately as a spherical segment, bordering strips secured to the pockets, each pocket being composed of a lower portion of heavy fabric and an upper portion of sheer fabric, a band secured to outer edges of each of said pockets with one end to encircle the body together with the pockets, and adjustable shoulder straps for supporting the pockets, said shoulder straps being secured with one end to the upper curved edges of the pockets, two elastic strips secured to the pockets each extending substantially across the lower portion of the respective pocket and forming a portion of the base of the spherical segment, each of said strips having a curved part at the upper edge having an elastic seam therein and encircling the center of the base of the spherical segment, straight portions of the upper edges of the strips being provided at both sides of the curved portions thereof and secured to the pockets by an elastic seam at the boundary line between the upper and the lower portions of the respective pocket, the upper sheer fabric portions of the pockets being taken up at their joined inner edges to form tucks.

**2,648,071**
**SOFA BED**
**Frank J. Reilly, Winter Park, Fla.**
**Application July 2, 1949, Serial No. 102,837**
**4 Claims. (Cl. 5—47)**



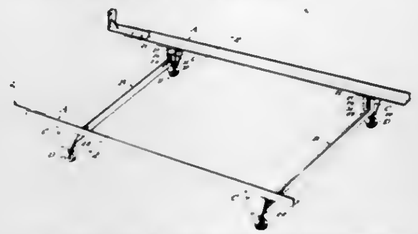
4. In a sofa of a character having a seat and back member adapted to be readily converted into a sofa bed by the mere application of slight pressure to the back member, in combination, a frame, a back member consisting of a rearward section and a complementary forward section hingedly connected to the rearward section at their upper ends and standing in opposed back to back relationship to said rearward section when in normal vertical position, a pair of supporting brackets mounted on the rearward section on the opposite sides and at the lower ends of said rearward section, with each of said brackets including pivotal means, a pair of shiftable carriers secured to and supporting said brackets by said pivotal means and guide means secured to and supporting said carriers, with means for securing said guide means to the frame whereby the forward and rearward sections of the back member are shiftably supported on said frame by the carriers and guide means, said carriers having a normal position wherein said brackets are positioned adjacent the rear corners of the seat at the opposite sides thereof, the brackets and carriers being shiftable to positions adjacent the forward edge of the seat at the opposite sides thereof, a pair of legs pivotally mounted on the under side of the forward section of the back member near the forward longitudinal edge thereof, with means concealing said legs between the sections of the back member when in normal vertical position.

**2,648,072**
**BED CUSHION FOR AUTOMOBILES**
**John D. De Blieux, Jacksonville, Fla.**
**Application March 30, 1951, Serial No. 218,436**
**2 Claims. (Cl. 5—94)**



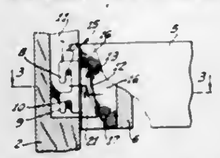
2. In a passenger car including forward and rear seats, a cushion supported on the rear seat and extending from the rear seat to the forward seat, said cushion including a portion overhanging the rear seat, and an inflatable casing supported on the floor of the car between the forward and rear seats and including a rear concave wall conforming to the front of the rear seat and a lower wall having a transverse recess adapted to accommodate the drive shaft hump in the floor of the car.

**2,648,073**
**BED FRAME**
**Richard A. Nowell, Los Angeles, Calif., assignor, by mesne assignments, to Metalcraft Co., Los Angeles, Calif., a copartnership**
**Application April 3, 1950, Serial No. 153,561**
**17 Claims. (Cl. 5—285)**



1. In a bed frame, side rails, depending brackets fixed on said side rails, end flanges on said brackets each having a caster receiving apertures therein, end rails supported by said brackets and having end portions overlying said end flanges and formed with apertures disposed to register with the bracket apertures when the end rails are positioned with their end portions overlying the end flanges, and casters having socket members removably inserted in the registering apertures to connect the end rails to the side rails.

**2,648,074**
**HOOKED FASTENER AND CONNECTION FOR RAILS USED FOR BEDS OR DIVANS**
**David A. Jonas, Los Angeles, Calif.**
**Application January 27, 1948, Serial No. 4,577**
**8 Claims. (Cl. 5—296)**

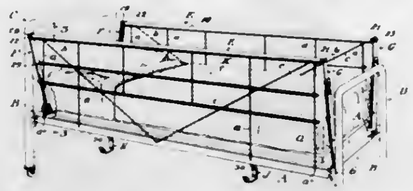


1. In a fastener for attaching a side rail to a bed post: a bracket adapted to be attached to the side rail, said bracket having a lateral apertured flange adapted to fit over the end of said rail; a hook member having parallel top and bottom edges guided by the top and bottom edges of the aperture in said bracket for adjustment in a direction substantially parallel to the said edges; a wedge movable in a direction transverse to that of the hook member, and engaging the same, for urging the hook member inwardly of the side rail; and a screw connected to the wedge for moving the same.

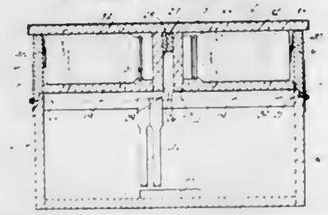
**2,648,075**
**FOLDABLE FENCE ATTACHMENT FOR HOSPITAL BEDS AND THE LIKE**
**Rafe C. Chaffin and Edmond O. Pratt, Los Angeles, Calif.**
**Application May 31, 1950, Serial No. 165,234**
**19 Claims. (Cl. 5—331)**

12. In a fence attachment for a bed having a side rail, a series of flexible strips having end portions affixed to the bed side rail including a strip connected to the rail adjacent each end thereof and strips connected to the side rail intermediate the ends of the rail, a plurality of fence rails affixed to and carried by said flexible strips in spaced relation to each other and to said bed side rail and including a top rail, diagonal strips leading upwardly and outwardly from the bed side rail and affixed thereto intermediate the ends of the side rail and connecting with the top fence rail adjacent the ends thereof; said fence rails and strips being adapted to be assembled into a bundle, stirrups on said bed side rail for supporting said bundle therebeneath; said fence rails and said flexible strips being adapted to be positioned to extend upwardly from said bed side rail, supporting members on the bed for holding said fence rails and flexible strips in an extended position, and cooperative detachably engageable means for connecting the ends of said top fence rail to said supporting members.



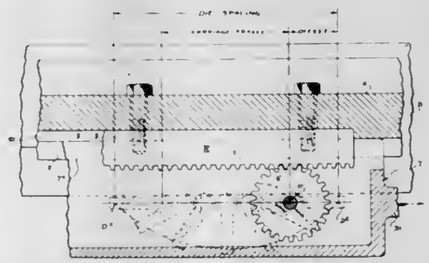


**2,648,076**
**STINGLESS BEEHIVE**
**Charley A. Garrett, Gainesville, Tex.**
**Application August 14, 1951, Serial No. 241,777**
**2 Claims. (Cl. 6—2)**



1. In a beehive, a lower container section including spaced upstanding side walls, a door superimposed upon each of said upstanding side walls in vertical aligned relation therewith and hingedly connected to the adjacent side wall for swinging movement from the vertical aligned position to a position away from the vertical aligned position, an upper section superimposed upon and connected to said lower section, said upper section including a top wall, spaced depending end walls secured to said top wall, a pair of floors arranged in spaced side by side relation positioned between and connected to said depending end walls, the space between said floors being in communication with the interior of said lower section, said doors of said lower section bridging the spaces between said floors and said top and forming the side walls of said upper section, and an upstanding partition positioned longitudinally of each of said floors adjacent the space between said floors and fixedly secured to the top wall and to the adjacent floor, the partitions together forming a longitudinally extending passageway in communication with the space between said floors, each of said partitions being provided with longitudinally spaced holes extending therethrough, a plurality of transparent jars each including an open end and a closed end arranged in side by side spaced relation and positioned transversely of each of said partitions and supported intermediate their ends on said floors, each of said jars having a removable cap including a web bridging the open end thereof, the web of each cap being provided with a hole in registry with the corresponding hole in the respective partition, and spring means carried by each of said doors and engageable with the closed end of each of said jars to maintain the open end of each jar in abutting relation with respect to the corresponding partition.

**2,648,077**
**TRANSFER MECHANISM**
**John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio**
**Application August 3, 1946, Serial No. 688,383**
**2 Claims. (Cl. 10—12)**

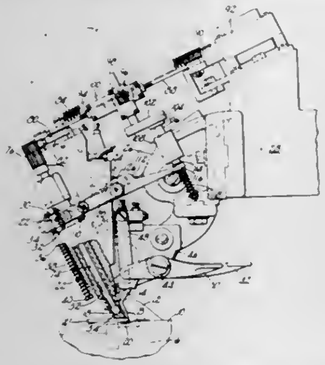


1. In a machine for forming metal articles, a bed frame, a vertically disposed die breast in said bed frame, a plurality of spaced die stations arranged in said die breast with the axes of said stations being in the same horizontal plane and adapted to receive blanks to be worked by a header slide reciprocating horizontally in said bed frame, transfer mechanism to transfer the blanks to be worked horizontally from one die station to the next adjacent die station comprising a horizontally disposed guideway on the bed frame above the die breast and spaced horizontally with respect to the vertical plane of the die breast, a horizontally disposed rack fixed with respect to the bed frame and having the rack teeth thereof extending toward the header slide, said rack teeth terminating in a vertical plane spaced from the vertical plane of the die breast, a reciprocating carriage mounted in said guideway, a vertically disposed transfer finger support pivotally mounted in said carriage in a vertical plane more nearly adjacent the header slide than said rack, a gear in said support in mesh with said rack, the vertical axis of said support being maintained between two adjacent die stations during the reciprocation of said carriage, means to reciprocate said carriage through a horizontal distance less than the distance between two adjacent die stations, a pair of depending transfer fingers carried by said support, said fingers being offset with respect to the vertical axis of said support to extend horizontally therefrom to position said fingers in alignment with the die station most nearly adjacent said support at each end of its reciprocation, whereby said offset supplements the horizontal travel of the carriage in transferring a blank from one die station to the next.

**2,648,078**
**FOLDING MACHINE**
**Andrew Eppler, Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application December 12, 1951, Serial No. 261,287**
**13 Claims. (Cl. 12—55)**

1. In a folding machine, means for folding the margin of a piece of work, a work engaging

member having a passageway through which adhesive is delivered to the work concomitantly with the folding of the margin, a valve in said passageway for regulating the flow of adhesive there-



through, operator controlled means for moving said valve from closed position, and means controlled by said work engaging member for varying the extent of opening movement of said valve.

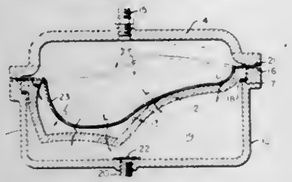
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2,648,079

**APPARATUS FOR MOLDING SKINS**

Alexis E. Ushakoff, Beverly, Mass., assignor to Secotan, Inc., Cambridge, Mass., a corporation of Massachusetts

Application October 11, 1952, Serial No. 314,281
18 Claims. (Cl. 12—97)



1. Apparatus for molding skins and the like and treating them with fluids comprising a porous shell having a concave mold surface, a rim surrounding the mold surface and clamping means cooperative therewith for securing the marginal edges of a skin with its unconfined area overlying the mold surface, first conduit means for delivering treating fluids above the skin, second conduit means for draining fluids from beneath the mold, and enclosing means extending between the skin at the edge of the molding surface and at least one of said conduit means whereby a fluid pressure differential may be applied across the skin to conform it to the mold and force fluids through it and the mold.

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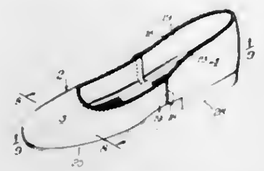
2,648,080

**SHOE CONSTRUCTION AND METHOD OF MAKING THE SAME**

Domenico Garofalo, New York, N. Y.

Application August 25, 1951, Serial No. 243,627
3 Claims. (Cl. 12—142)

1. A method of making a shoe having a closed toe which comprises providing an outsole, providing an insole smaller than the outsole, providing a vamp of flat sheet material of predetermined shape and size for the shoe being made, including a rounded toe portion having a peripheral edge of substantially greater length than the corresponding edge portion of the insole, running a gathering thread along the edge of the toe portion of the vamp with in-and-out stitches, applying tension to said thread to gather the edge of the toe portion of the upper with small uniform gathers until its length is substantially equal that



of the corresponding edge portion of the insole, stitching the edge of the vamp to the edge of the insole, forcing the assembled vamp and insole onto a last having a bottom surface substantially larger than the insole, so that a marginal portion of the vamp is pulled in over the bottom of the last, and affixing the outsole to the insole and adjacent marginal portions of the vamp.

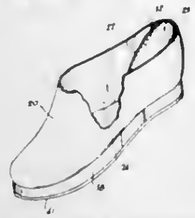
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2,648,081

**METHOD OF MAKING SLIP-LASTED SHOES WITH REINFORCING COUNTER AND STITCHED-IN SOCK LINING**

Jack Meltzer, Los Angeles, Calif.

Application September 23, 1952, Serial No. 310,942
7 Claims. (Cl. 12—142)



1. In the art of making a slip-lasted article of footwear having a reinforcing counter and provided with a full-length stitched-in sock lining, the sequence of steps which comprises securing the bottom edge of a counter cover to an edge part of a full-length sock lining by a first line of stitches terminating short of the ends of said bottom edge and thus leaving said ends temporarily detached from the sock lining, thereafter securing the counter cover along its side and top edges to the inside of an upper by a second line of stitches extending all the way to said bottom edge of the counter cover, and thereafter securing the unattached edges of the sock lining to the corresponding parts of the bottom edge of the upper by a third line of stitches which extend at least to said first line of stitches so as to catch in said temporarily detached ends.

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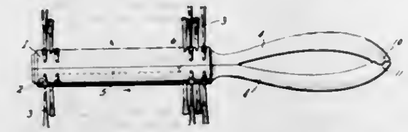
2,648,082

**CYLINDRICAL HAIRBRUSH CONSTRUCTION**

Ralph T. Teetsel, Springfield, Pa., assignor to Better Brushes, Incorporated, Palmer, Mass., a corporation of Massachusetts

Application July 13, 1951, Serial No. 236,605
3 Claims. (Cl. 15—106)

3. A composite hairbrush having a generally cylindrical brushing surface and comprising a pair of separable units, each unit having a handle and a backing portion extending from one end of the handle and adapted for use as an individual brush with a semi-cylindrical brushing surface, said backing portions having a back to back longitudinally slidable relation with a tapered dovetail tongue and groove connection joining said backing portions substantially



throughout the length thereof and providing a wedged engagement in assembled position with the outer ends of said backing portions in registration, the said handles at the outer tip end portions thereof being yieldably urged together and provided with interfitting detent surfaces resiliently holding said separable units against relative longitudinal movement.

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2,648,083

**HAND BRUSH AND NESTING CASE**

Murphy A. Chesney and Hiram A. Lang, Knoxville, Tenn., assignors to Chesian Brush Company, Inc., Knoxville, Tenn., a corporation of Tennessee

Application July 29, 1948, Serial No. 41,270
5 Claims. (Cl. 15—184)



1. A brush comprising an elongated head having a plurality of exterior facets forming an equilateral polygon in cross section, a plurality of bristles on one of said facets, a brush handle and casing element comprising an elongated substantially U-shaped member having opposed open ends, the free ends of the arms of said U-shaped member comprising clamping members having a plurality of intersecting faces formed in their opposed adjacent sides, at least two adjacent faces on each of said arms intersecting at an angle substantially equal to the angle between each adjacent pair of intersecting facets and having a width substantially equal to the width of said adjacent facets, whereby said head may be slidably received between and substantially enclosed by said clamping members with said bristles positioned between said arms or said head may be inverted with said bristles extending out and away from said handle and casing element.

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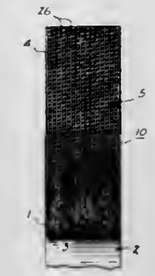
2,648,084

**REINFORCED WIRE BRUSH**

Gilbert H. Swart, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application May 4, 1949, Serial No. 91,280
5 Claims. (Cl. 15—198)

1. In a wire brush comprising a fastening portion and a plurality of wire bristles extending therefrom, the improvement which comprises a solid polymerization product of a mixture of a polyester of at least one compound selected from the group consisting of dibasic acids and dibasic acid anhydrides and at least one polyhydric alcohol and a mono-olefinic compound compatible



and polymerizable therewith substantially completely surrounding and reinforcing the sides of said wire bristles and joining portions spaced from said fastening portion together.

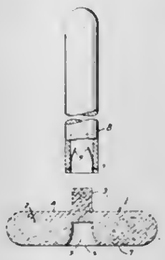
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2,648,085

**CLEANING SWAB FOR TOILET BOWLS AND THE LIKE**

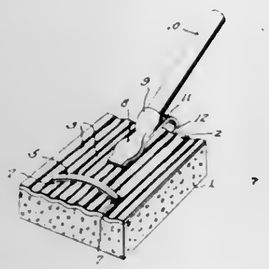
Dorothy F. Rodgers, New York, N. Y., assignor, by mesne assignments, to Personal Products Corporation, North Brunswick Township, N. J., a corporation of New Jersey

Application May 2, 1950, Serial No. 159,503
2 Claims. (Cl. 15—210)



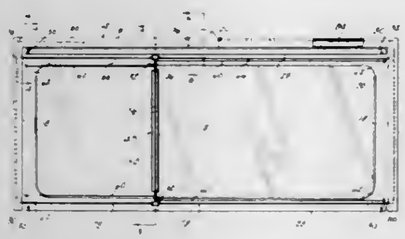
1. A cleaning swab for toilet bowls and the like comprising the combination of a disposable cleaning swab pad formed of water disintegratable material and a readily dissociable handle, said disposable swab pad having a flat body portion of substantial thickness, an integral stud-like projecting portion disposed at one flat side of said body portion adapted to provide holding and connecting means for said handle, the body portion of said swab portion having a cavity formed therein at the other flat side thereof opposite said stud-like projection, the configuration and depth of said cavity being adapted to permit the ready entrance of the stud-like projecting portion of another like pad with the sides of adjacent pads in contact relation, and said handle having engaging means at one end thereof adapted to closely surround and hold the stud-like portion of said swab pad in interconnection with said handle during a cleaning operation, and permitting ready disassociation upon completion of a cleaning operation without necessity of handling the swab pad, and said engaging end of the handle being so formed as to shield said stud-like portion against excessive wetting during a cleaning operation and thereby avoid premature disintegration thereof.

2,648,086
**MOP WITH WRINGER MEANS**
Steven P. Vidal, Albuquerque, N. Mex.
Application March 5, 1951, Serial No. 213,918
5 Claims. (Cl. 15—244)



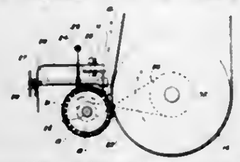
1. A mop device comprising a block of absorbent material, a backing plate arranged on said block, said plate being grooved for permitting transverse flexing thereof, a hook member on said backing plate for interengagement with the rim of a receptacle, and a handle on said plate for moving said plate and compressing said block against the receptacle wall.

2,648,087
**WINDSHIELD WIPER**
Charles W. Kiker, Jr., Blue Ridge, Ga.
Application February 29, 1952, Serial No. 274,122
3 Claims. (Cl. 15—254)



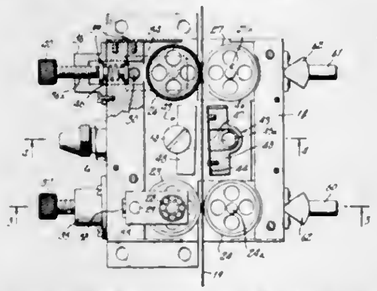
1. A windshield wiper comprising: an elongated wiping member adapted to extend across the surface of a windshield and wipe the same when reciprocated over said surface; a pair of guide bars mountable adjacent opposite edges of a windshield and arranged transversely of the wiping member, the wiping member having its opposite ends mounted for rolling movement upon and longitudinally of the respective guide bars, whereby to support said wiping member for reciprocating movement along a path transverse of the wiping member, and for rotation during said movement; a power means of the reversing type adapted for mounting adjacent the windshield; a linkage extending from the wiping member to said power means, for reciprocating the wiping member across said windshield surface responsive to actuation of said means; and cords wound upon the respective ends of the wiping member and adapted to be anchored at their ends adjacent said windshield, for rotating the wiping member responsive to reciprocating movement thereof over the windshield surface.

2,648,088
**TEXTILE PRINT BLANKET WASHING EQUIPMENT**
Herman H. Bailey, Belmont, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
Application July 26, 1949, Serial No. 106,817
2 Claims. (Cl. 15—256.5)



1. In a textile print blanket cleaning apparatus of the type having a rotating cylinder and rotating wet cleaning brushes adapted to bear on the face of a continuous textile print blanket passing around said cylinder, means for applying a small quantity of a solvent for the color carried on the blanket to the color film on the face of the blanket in the form of a mist immediately in advance of the wet cleaning brushes at a rate which is uniform per unit area of the blanket surface irrespective of the rate of travel of said blanket, said means comprising a rotary solvent applicator brush having its axis parallel to the axis of the cylinder and located adjacent to the cylinder in advance of the cleaning brushes at a point where the direction of travel of the blanket is essentially vertically downward, a striker bar extending the width of the applicator brush, located parallel to the axis and above the upper inner quadrant of said brush, said striker bar having a longitudinal bristle engaging portion extending into the bristle periphery of said applicator brush, means for adjusting the position of said striker bar relative to the axis of said brush, means for applying a solvent to said applicator brush including a drip pipe to drip solvent on the applicator brush, said drip pipe located above the upper outer quadrant of said brush, and means for rotating said applicator brush at a peripheral speed proportional to and in excess of that of the cylinder and in a direction opposite to that of said cylinder.

2,648,089
**AIR SQUEEGEE**
Allan Mayer, Katonah, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application June 17, 1950, Serial No. 168,721
2 Claims. (Cl. 15—306)

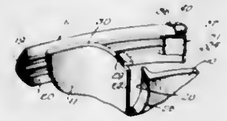


1. An air squeegee comprising a casing through which a strip or web of material is adapted to pass for removing the water or moisture therefrom, an entrance and an exit for said strip



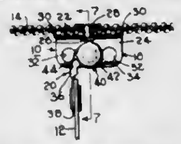
in the form of respective pairs of rollers journalled on respective parallel axes in bearings slidably supported for movement toward and away from each other, stop means for determining the minimum spacing between the surfaces of the respective pairs of rollers, the stop means at the exit being placed so that the minimum spacing is substantially equal to the normal thickness of said strip to thereby provide a substantially fluid-tight seal, the stop means at the entrance being placed so that the minimum spacing between the surfaces of the entrance rollers is slightly wider than the normal thickness of said strip, means for directing a gaseous drying medium under pressure into the zone in said casing between said entrance and exit, the wider minimum spacing of said entrance rollers being adapted to permit said drying medium to pass out of said casing at said entrance at high velocity in thin sheets in a direction opposite to that of the movement of said strip, and means for independently resiliently urging each of said movable rollers against their respective stops.

2,648,090
**VACUUM CLEANER FURNITURE GUARD**
Frank S. Howard, Chicago, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application November 8, 1946, Serial No. 708,482
7 Claims. (Cl. 15—325)



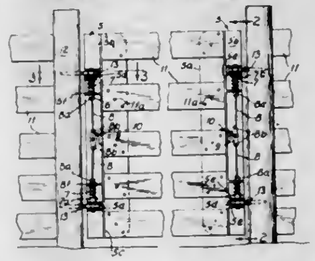
1. In a vacuum cleaner, a casing including a nozzle, a furniture guard normally extending around the front of the nozzle, said casing having a slot provided with an open mouth in the bottom edge of the casing, an outwardly projecting extended member on the bottom of the casing adjacent to but spaced from the opening for preventing downward displacement of the guard, and a member detachably held by an end of the guard and insertable in said slot through said open mouth for fastening the end of said guard, said detachable member having an end portion of larger width than at least a portion of said slot and a bottom part engaging an edge portion of the casing defining the slot when said detachable member is in place.

2,648,091
**FASTENER ASSEMBLY**
Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 26, 1951, Serial No. 222,975
3 Claims. (Cl. 16—140)



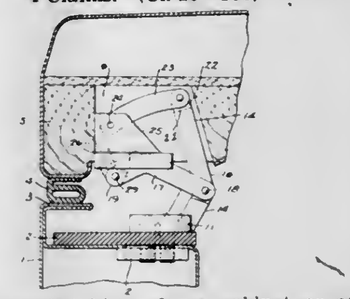
1. A snap fastener assembly, comprising a socket member and a stud member for cooperating snapping engagement and for substantial tilting movement relative to each other after engagement, said socket member comprising a base portion for attachment to a support, a pair of spaced elongated side walls disposed on the base, said side walls having a series of pairs of opposing openings spaced longitudinally therein, said stud having a width greater than the distance between said walls and having opposing convex surfaces having a diameter greater than the diameter of the openings in the socket member for snapping engagement therein.

2,648,092
**COMBINATION GATE HINGE AND LOCK**
Robert Esslinger, Prophetstown, Ill.
Application April 19, 1951, Serial No. 221,823
1 Claim. (Cl. 16—147)



In a device for the purpose described, an elongated plate member adapted to be secured to one face of a vertical edge portion of a gate to extend therealong and project beyond said gate edge, a vertical web extending from said plate member between the vertical edges thereof and adapted to cover said gate edge, a second web extending from the free edge of the first web parallel to the plate member and away from the gate edge, said plate member and the second web having opposite and aligned slots extending from corresponding edges to the first web, and pairs of spaced keeper lugs at the edges of said slots and fitting in the space between the second web and plate, said lugs having openings therein for bolt members.

2,648,093
**MULTIPLE LEAF CONCEALED HINGE**
Robert J. Wilson, Detroit, Mich., assignor to Soss Manufacturing Company, Detroit, Mich., a corporation of Maine
Application August 25, 1952, Serial No. 306,094
4 Claims. (Cl. 16—164)



1. A concealed hinge for a cabinet or other article having in combination a hinge butt for attachment to the face of a stationary pillar of a cabinet, provided with an outwardly extending long stationary arm having insets or step-downs therein to diminish the thickness of the hinge arm first beginning near the hinge butt and secondly at the free end of the stationary arm, a

hinge casing with upper and lower plates for attachment to the pillar of a swinging door and below a recess provided in the door pillar, the hinge casing having a box portion at the middle fitted into said recess with outwardly projecting ears, one at its top and one at its bottom, and provided with a pair of clearance channels, a pair of links pivotally connected to the first narrowed section of the stationary arm at a point adjacent the hinge butt, and with said ears, one link being above the stationary arm and the other below the stationary arm, and links connecting the free end of the stationary arm in the second inset and step-down with the center stop block, one link above and the other below the stationary arm, the said links forming roughly a parallelogram set of links for swinging the door and also moving the door bodily so that when the door is swung out to perpendicular position the jamb face of the door is swung in and the door is stopped in perpendicular position by means of the second mentioned links butting against the channel bottoms.

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**2,648,094**
**SHRIMP CLEANING IMPLEMENT**
**Stephen A. Paoli, Rockford, Ill.**
**Application January 8, 1951, Serial No. 204,839**
**2 Claims. (Cl. 17—7)**

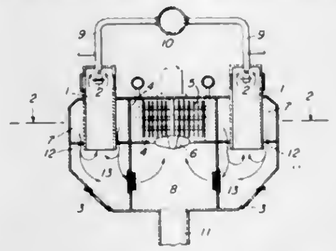


1. An implement for removing the body of a decapitated shrimp from its shell which comprises a body having a handle at one end, a wedging portion connected to said handle and extending forwardly thereof, and an elongated curved prong portion projecting forwardly of the wedging portion, the wedging portion and the prong portion being formed with top and bottom surfaces, said bottom surface on the wedging portion being spaced relatively far apart from said top surface thereon at a position adjacent the handle, said bottom surface on the wedging portion inclining toward said top surface to a position adjacent the prong portion where said bottom and top surfaces on the wedging portion are relatively closely spaced to define a cam surface on the bottom of the wedging portion, a top cutting blade attached to the prong portion, said top cutting blade being formed with a cutting edge positioned above the top surface on the prong portion and extending lengthwise of the prong portion, inclining toward the top surface of the prong portion in a direction toward the forward end thereof, and a lower cutting blade attached to the prong portion and disposed rearwardly of the top cutting blade, said lower cutting blade being formed with a cutting edge positioned below the bottom surface on the prong portion and extending lengthwise of the prong portion, inclining toward the bottom surface of the prong portion in a direction toward the forward end thereof.

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**2,648,095**
**APPARATUS FOR DRY SPINNING ARTIFICIAL FIBERS**
**Geoffrey Curtis, Coventry, England, assignor to Courtaulds Limited, London, England, a British company**
**Application April 1, 1952, Serial No. 279,901**
**In Great Britain May 22, 1951**
**5 Claims. (Cl. 18—8)**

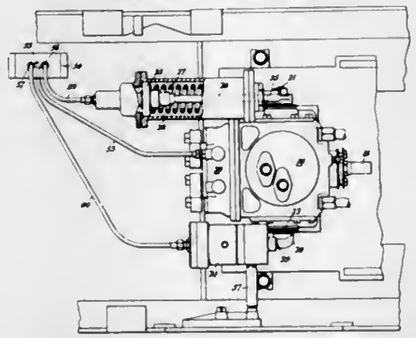
1. Apparatus for dry spinning artificial fibres comprising in combination, a group of spinning cells each not greater than 24 inches in height, a circulatory system for the heated gases of the evaporative atmosphere comprising at least one heater for the gases, a supply trunk and a common return trunk for the heated gases, at least one half of each spinning cell being positioned



within the supply trunk and each spinning cell having a direct connection with the return trunk, means communicating within the spinning cells for withdrawing part of the heated gases for solvent recovery, and at least one port in the return trunk for drawing in fresh gases to replace the gases drawn off for solvent recovery.

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**2,648,096**
**INJECTION MOLDING MACHINE AND VARIABLE DELIVERY HYDRAULIC PUMP THEREFOR**
**Keith Herbert Balgent, West Ewell, England, assignor to R. H. Windsor Limited, London, England**
**Application October 31, 1951, Serial No. 254,159**
**In Great Britain November 20, 1950**
**7 Claims. (Cl. 18—30)**

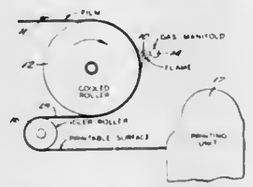


5. In an injection moulding machine, comprising an injection plunger and a hydraulic cylinder for actuating said injection plunger, the combination with said cylinder of a variable delivery hydraulic pump arranged to supply said cylinder with liquid to impart an injection stroke to said plunger, said pump comprising mechanism for controlling the delivery of the pump, a first cylinder, a piston in said first cylinder, a first conduit communicating with said first cylinder for normally subjecting said piston to the delivery pressure of the pump, means coupling said piston to said delivery controlling mechanism, means coacting with and biasing said piston against said delivery pressure and operative to maintain said mechanism in the position corresponding to maximum delivery of the pump so long as the delivery pressure is less than the biasing force acting on said piston and thereafter operative to reduce the delivery of the pump progressively with increase in the delivery pressure, a second cylinder, a second piston in said second cylinder, means coupling said second piston to said delivery controlling mechanism, a second conduit communicating with said second cylinder and normally connected to exhaust, a change-over valve having ports communicating with said conduits and movable from a normal position, in which the first cylinder is supplied through said first conduit with liquid at the delivery pressure of the pump and the second cylinder is connected through said second conduit to exhaust, to an alternative position in which the supply through said first conduit of liquid under pressure is cut off from the first cylinder and hydraulic pressure is supplied through said second conduit to the second cylinder, and a stop positioned to arrest the second piston, on movement thereof in response to supply of pressure to said second cylinder, in a predetermined position, said second piston then maintaining said controlling mechanism in position to give a predetermined constant delivery, a limit switch coacting with said plunger and arranged to be actuated thereby approximately midway in its injection stroke, and electromagnetic means controlled by the limit switch for moving said change-over valve to its alternative position on actuation of said limit switch.

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**2,648,097**
**METHOD OF SECURING DECORATIVE MATTER TO A SURFACE OF A POLYETHYLENE BODY**
**Mathew F. Kritchever, Wilmette, Ill., assignor to Traver Corporation, Chicago, Ill., a corporation of Illinois**
**Application April 4, 1952, Serial No. 280,583**
**2 Claims. (Cl. 18—47.5)**

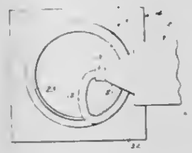


2. The method of securing decorative matter to a surface of a polyethylene body, which comprises maintaining a flame having a temperature of from 1600° to 3800° F., passing said surface of said body through said flame to immerse said surface in said flame to an extent sufficient to soften said surface, withdrawing the surface of said body from said flame before materially heating the rest of said body, then permitting said surface and body to harden and become set to produce a surface permanently adherent to decorative matter, and thereafter at any time applying decorative matter to said permanently-receptive surface.

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**2,648,098**
**PROCESS FOR PRODUCING PEARLESCENT PLASTIC ARTICLES**
**Edward Michael McElligott, Detroit, Mich., assignor to Swedish Crucible Steel Company, Detroit, Mich., a corporation of Michigan**
**Application October 4, 1949, Serial No. 119,434**
**5 Claims. (Cl. 18—47.5)**

1. A process of molding pearlescent plastic articles from a pearlescent synthetic resin compound in a mold cavity, comprising reducing a compound composed of a plurality of mutually-incompatible pearlescent-producing plastics to a plastic condition, extruding the plastic compound into a plastic rope, coiling said rope into an open-centered coil having vertically stacked



multiple turns of approximately the size of the mold cavity, placing the extruded coil in the mold cavity, and compressing the coil to fill a predetermined portion of said cavity.

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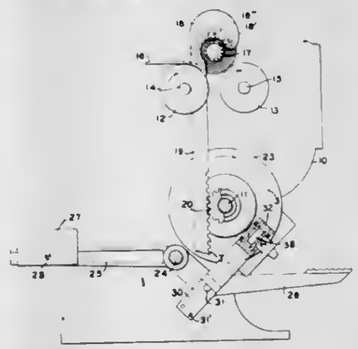
**2,648,099**
**METHOD OF FORMING AIRPLANE CANOPIES**
**Robert W. Dunmire, North Canton, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware**
**Application April 22, 1950, Serial No. 157,484**
**3 Claims. (Cl. 18—56)**



1. That method of forming an airplane canopy or the like having substantially undistorted optical quality from a flat transparent plastic sheet which softens between about 250° and 350° F. including the steps of separably uniting by adhesion into a flat laminate the flat transparent plastic sheet and a protective cushion sheet made of a different thermoplastic material which softens between about 250° and about 350° F., heating the laminate to about 250° to 350° F., stretch-forming the flat laminate with the cushion side against a compoundly curved mold by pressure means, cooling the formed compoundly curved laminate, and stripping the cushion sheet from the article thus formed.

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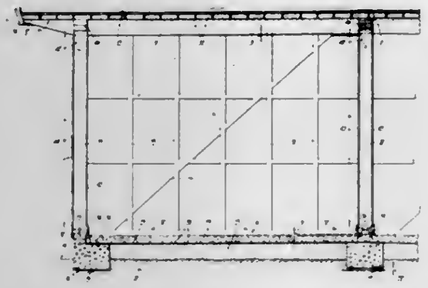
**2,648,100**
**FRICTION LETOFF FOR PICKER CALENDERS**
**Nelson B. Henry, Atlanta, Ga., assignor to Aldrich Machine Works, Greenwood, S. C., a partnership**
**Application November 24, 1950, Serial No. 197,330**
**10 Claims. (Cl. 19—162)**



7. Apparatus of the class described comprising a brake disc, a pivotally mounted lever arm,

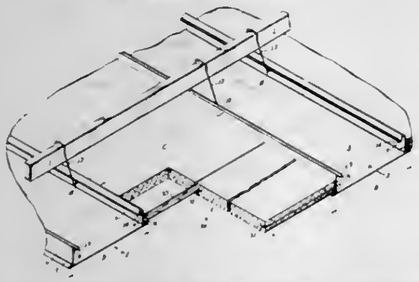
carrier means mounted upon said arm, brake shoes carried by said carrier means and having inner faces arranged for engagement with opposite sides of said disc, said shoes having inclined outer faces, spaced pressure means fixedly mounted adjacent the inclined faces of said shoes, and means to urge said brake shoes between said pressure means to wedge the brake shoes against the sides of the brake disc, the operative direction of rotation of said disc being such as to release the disc from being wedged between the brake shoes.

**2,648,101**
**BUILDING CONSTRUCTION**
**Earl W. Smith, Berkeley, Calif.**
**Application October 11, 1948, Serial No. 53,959**
**4 Claims. (Cl. 20—1)**



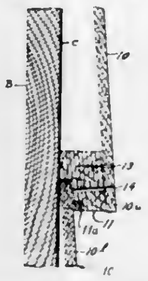
1. A building construction comprising a rectangular shaped room having a concrete floor, having an outer marginal portion around said floor at a predetermined elevation, having a linear central portion of said floor at a higher elevation to establish an outward and downward slope from said central portion in all directions to said marginal portion, having a plurality of wall studs supported by said linear central portion and said outer marginal portion, said wall studs being all of the same vertical dimension, and having a roof panel supported by said wall studs and disposed at the same slope as said floor from the central portion thereof outwardly and downwardly toward the edge thereof.

**2,648,102**
**CEILING CONSTRUCTION**
**Victor Jacobson, New Rochelle, N. Y., assignor to Level-Line Ceilings Inc., New York, N. Y., a corporation of New York**
**Application November 3, 1950, Serial No. 193,827**
**4 Claims. (Cl. 20—4)**



1. An acoustic corrective ceiling construction comprising sound reflective members formed of thin metal having freely vibratory web portions and sound absorptive members in the form of tiles of cellular material, said members being arranged in side-by-side adjoining relation and the under surfaces of the web portions and the under surfaces of the sound absorptive members being flat and forming substantially the entire ceiling surface, the web portions of the sound reflective members being of such thickness and having such width that they have diaphragmatic action upon impingement of sound waves of noise frequency thereon, the ratios of the widths of the sound reflective members to the sound absorptive members being from 1 to 2 to 1 to 8.

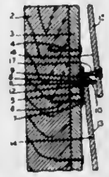
**2,648,103**
**SIDING STRUCTURE**
**Otto Wahlfeld, Peoria, Ill.**
**Application November 24, 1948, Serial No. 61,795**
**10 Claims. (Cl. 20—5)**



7. A siding structure comprising a supporting wall, and a plurality of face boards arranged in overlapping courses, one above the other, each of said face boards comprising a panel, and means carried along one edge of said panel to tilt each panel at a given angle in relation to said supporting wall and to position adjacent panel ends in predetermined overlapping relation with respect to each other, said means comprising a molding connected with said one edge of the wall facing surface portion of said panel and arranged for bodily contact with said supporting wall to space the connected panel outwardly from said wall, with the other opposite edge of said panel having direct contact with said supporting wall, and said molding having a recess therein formed to a given vertical depth and arranged for snug engagement with the next succeeding upper edge portion of the adjacent lower panel to position the molding attached end of the upper panel in a given vertical overlapping relation with respect to said lower panel.

**2,648,104**
**BUILDING STRUCTURE**
**Wylmer L. Scott, Manheim Township, Lancaster County, and Arthur D. Park and James T. Baldwin, Lancaster, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**
**Application June 1, 1949, Serial No. 96,556**
**9 Claims. (Cl. 20—5)**

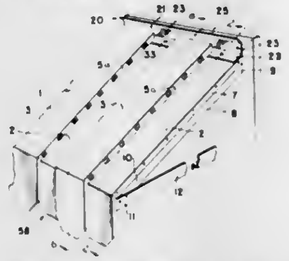
1. A building structure comprising a supporting framework, a layer of rigid insulation board which is incapable of holding conventional fastening means with any degree of security attached to the supporting framework, a sheet metal finishing material attaching strip, fastening means passing through said attaching strip and through said insulation board and into said framework to secure said attaching strip to said supporting framework, courses of exposed finishing material overlying said insulation board, and fastening means passing through said finishing material and received



in said sheet metal attaching strip and securely held substantially entirely thereby to secure said finishing material to said attaching strip.

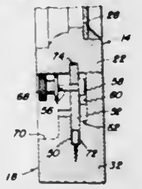


**2,648,105**
**AWNING AND FLASHING STRIP THEREFOR**
**Merrill P. Kurtz, Akron, Ohio**
**Application November 21, 1950, Serial No. 196,737**
**8 Claims. (Cl. 20—57.5)**



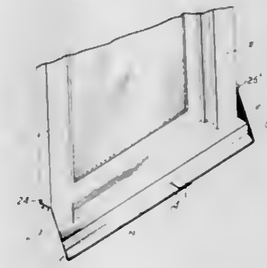
1. An awning having a roof which includes at least two spaced parallel drains, a cover positioned above the drains and bridging the space between them, across one end of the roof portion a flashing strip having a vertical portion adapted to be connected to a building and another portion extending the whole width of the flashing strip and angling downwardly away from the vertical portion to which downwardly angling portion the drains are connected, and on said angling portion of the flashing strip parallel with the vertical portion, upwardly extending means frictionally engaged with the cover to hold the cover in position, the bottom portion of said upwardly extending means being imperforate and diverting into the drains water which drains against it from said downwardly angling portion of the flashing strip.

**2,648,106**
**SWINGING SASH WITH A WEATHER-PROOFING LATCH**
**Edward P. Shater, Union City, N. J.**
**Application September 9, 1949, Serial No. 114,866**
**2 Claims. (Cl. 20—68)**



1. In a window structure including a casing having a lower portion and a closure pivoted to the casing for swinging movement and having a lower rail overlying the lower portion of the casing when the closure is in its closed position, said lower portion having an elongated horizontal groove therein, said lower portion also having a pair of vertical slots therein intersecting said groove adjacent the ends of the groove, a combined sealing and locking strip longitudinally and laterally slidable in said groove, said strip having a pair of apertures therein in registry with said slots, a pair of headed pins having shanks complemental to and extending through the apertures and slidably received in the slots, said pins each having a threaded end, said casing having recesses about said slots receiving the threaded ends of said pins and each of said recesses having a vertical wall parallel to said strip, nuts threaded on the threaded ends of said pins and engaging said wall of each recess to force the heads of the pins against the strip and thereby hold the pins against sliding movement in the slots and the strip against sliding movement in the groove, and springs in the groove slidably supporting the strip and yieldingly urging the strip from the groove for engaging the lower rail of said closure.

**2,648,107**
**DRIP DEFLECTOR**
**Walter M. Bates, Jr., Penns Grove, N. J.**
**Application August 24, 1951, Serial No. 243,465**
**1 Claim. (Cl. 20—70)**



A drip deflector for attachment to a window frame comprising an elongated rectangular attaching strip adapted to be attached to the under side of the window sill of a window frame, an elongated rectangular drip deflecting flange carried by the attaching strip and projecting outwardly and downwardly from one longitudinal side edge thereof and beyond the outer side of the window sill, guards carried by the flange adjacent opposite ends thereof, said guards extending upwardly and rearwardly from the flange in substantially perpendicular relation to the attaching strip for attachment to the stiles of the window frame above the sill thereof, said guards overlying opposite ends of the window sill, and flanges carried by the guards and extending upwardly and outwardly therefrom to form with the stiles gutters which receive water running down the stiles and direct it onto the drip deflecting flange.

**2,648,108**
**STERILIZER**
**James B. Pentz, Staten Island, N. Y.**
**Application June 28, 1948, Serial No. 35,553**
**1 Claim. (Cl. 21—95)**

In a steam chest for sterilizing surgical instruments and dressings, a removable top cover for said chest, spaced trays for respectively holding said instruments and dressings, said tray

for said dressings being disposed above said other tray and adjacent said cover, and means in con-



tact with said cover for heating said dressings independently of the steam in said chest.

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**2,648,109**
**CABLE ADJUSTING DEVICE**
**Erving H. Cline, Stoughton, Mass.**
**Application August 11, 1950, Serial No. 178,901**
**4 Claims. (Cl. 24—71.1)**



1. A slack reducer for cables, comprising a rigid supporting plate, a cable engaging hook fixed to said plate adjacent to one end thereof, an upstanding cable engaging abutment fixed at its lower end to said plate adjacent to the other end thereof, a loop forming lever pivoted to the upper end of said abutment and having a portion arranged to engage said cable to form a slack-reducing loop therein between said upstanding abutment and said cable-engaging portion when said lever is rotated about its pivot, and a locking member arranged to maintain said lever in any one of a plurality of loop forming positions.

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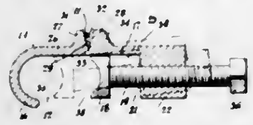
**2,648,110**
**CUFF FASTENING WITH SEPARABLE FASTENER**
**Herman D. Baskind, New York, N. Y.**
**Application June 24, 1950, Serial No. 170,129**
**1 Claim. (Cl. 24—73)**



A garment closure device in which the respective flaps of the garment have uninterrupted surfaces comprising a snap fastening connection having a pair of female snap fastening elements each being permanently emplaced in a respective flap of the garment, each of the elements comprising an annular socketed component section having marginal recesses and disposed at one side of each flap and a ring member disposed on the other side of each flap, the ring member having integral prongs thereon extending through the uninterrupted surface of each flap into interlocking relationship with the marginal recesses of each socketed section, one of the ring members having a flanged extension on the side of one flap opposite to its socketed section, a male fastening element held by the flanged extension and engageable with one of the socketed sections to close the flaps, and an interchangeable decorative head provided with a connector member in the form of a male snap fastening element on one of its surfaces for removable connection with the other of the socketed sections, whereby the fastening elements are emplaced in the respective flaps with no visual openings in the uninterrupted surfaces of the flaps and with the fabric of the flaps held between the socketed sections and the ring members.

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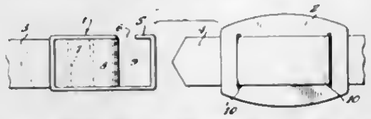
**2,648,111**
**CABLE CLAMP**
**Henry Richard Wengen and Raymond B. Schoonmaker, Poughkeepsie, N. Y., assignors to Fargo Mfg. Company, Inc., Poughkeepsie, N. Y., a corporation of New York**
**Application March 30, 1949, Serial No. 84,458**
**4 Claims. (Cl. 24—81)**



2. In a clamping device having two sets of clamping jaws operated by a common movement, the combination of a unitary member composed of a first jaw projecting from a first side thereof, a pair of jaws formed in the unitary member on the second and opposite side from said first jaw to provide a first set of clamping jaws, a thin portion weakening said unitary member in an area adjacent said first set of jaws and a supporting member extending from said unitary member on said first side thereof; a movable jaw operable to cooperate with said first jaw and provide a second set of clamping jaws therewith and jaw-closing means mounted in said supporting member whereby said movable jaw is closed on said first jaw to provide a clamping pressure and a resultant back pressure on said support arm applies pressure on said thin portion through said unitary member to operate said first set of clamping jaws.

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**2,648,112**
**BUCKLE**
**Anna Neumann, Brooklyn, N. Y.**
**Application May 3, 1950, Serial No. 159,708**
**2 Claims. (Cl. 24—168)**

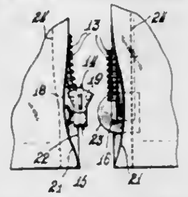


1. In a fastener for adjusting belts, straps or the like, a lower member and an upper member, two slots in the said lower member, the greatest dimension of the said slots in the lower member being smaller than the smallest outer dimension of the said upper member, at least one crosswise disposed opening in the said lower member and terminating in one of the said slots, the upper member resting on and at least partly overlapping both ends of the said lower member in operative position, one strap portion immovably associated with the said lower member in normal use of the fastener, another strap portion passing always in the same direction along the lower member and through one of the slots of the latter, then passing through and along at least a part of the upper member and finally again through the other of said slots of the said lower member, said other strap portion being immovably associated with the upper member during normal use of the fastener.



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**2,648,113**
**SLIDE FASTENER CONSTRUCTION**
**Sanford Rissman, Danville, Ill.**
**Application July 7, 1950, Serial No. 174,351**
**2 Claims. (Cl. 24—205.11)**



1. In an article having an opening to be closed by a separable slide fastener, a pair of stringers one secured to each edge of the opening, marginal flaps embracing said stringers, engageable means at complemental ends of said stringers for connecting them together, a slider movable along said stringers from adjacent the engageable means to couple coupling members spaced along opposed edges of the stringers, and a tab located between one of the marginal flaps and the engageable means on one stringer, said tab being formed of stiff material and of a size to extend beneath the engageable means on the other stringer when the engageable means are engaged to prevent catching the flaps in the slider during initial movement of the slider while closing the opening.

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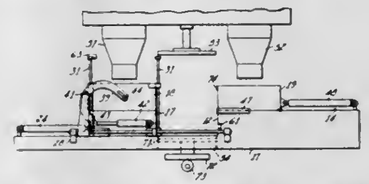
**2,648,114**
**MEASURING TAPE FASTENER**
**Edward H. Holtz, Teaneck, and Carl R. Sellen, North Bergen, N. J., assignors to Kenffel & Esser Company, Hoboken, N. J., a corporation of New Jerscy**
**Application September 12, 1950, Serial No. 184,505**
**3 Claims. (Cl. 24—265)**



1. An end ring construction for a measuring tape comprising a ring, a tubular member covering a portion of said ring and having a projection, a measuring tape passing through said ring covering the surface of said tubular member and a piece of sheet metal passing through said ring and covering said measuring tape, said piece of sheet metal having a pair of ears near one end, said ears being bent around the edge of the measuring tape to engage the other end of said piece of sheet metal to compress said measuring tape against itself and against said projection on said tubular member, said projection on said tubular member being keyed between the ends of said piece of sheet metal.

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**2,648,115**
**BLOCK MOLDING MACHINE**
**Michael D. Maramonte, Milwaukee, Wis.**
**Application June 14, 1952, Serial No. 293,505**
**6 Claims. (Cl. 25—41)**



1. A machine for molding a concrete block having at least three layers of aggregate, comprising a lower form, an intermediate form, an upper form, each of said forms having four sides, means for separately supporting a quantity of concrete block aggregate in each of said forms, means for holding said upper form and its associated aggregate support means superposed and spaced above said lower form, means for moving said intermediate form relative to its associated aggregate support means with said intermediate form moved to a position intermediate said upper and said lower forms whereby the aggregate in said intermediate form rests on the aggregate in said lower form, means for moving said aggregate support of said upper form from its position associated with said upper form whereby the aggregate of said upper form rests on the aggregate of said lower form, and means for moving said aggregate support means of said lower form from its position associated with said lower form to provide for the removal of the combined three layers of aggregate from said three forms.

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**2,648,116**
**METHOD OF MAKING HOLLOW MONOLITHIC CONCRETE SLABS**
**George A. Macready, Los Angeles, Calif.**
**Application February 26, 1947, Serial No. 730,899**
**3 Claims. (Cl. 25—154)**

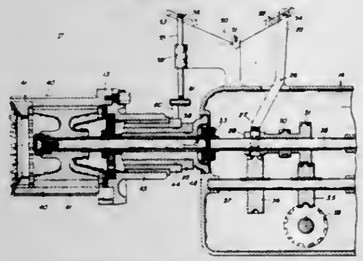


2. A method for making hollow monolithic concrete slab floors and roofs for buildings consisting of providing an external form around the margin of the intended slab and the upper portion of its permanent supports, constructing a temporary floor at the elevation intended for the lower face of the intended slab, placing main reinforcement bars upon the construction floor in more than one series of intersecting directions,

placing minor reinforcement mesh for the lower slab diaphragm, erecting a plurality of sheet material fence like pens upon the temporary floor between the intersecting series of main bars, making holes through the temporary floor beneath each pen, temporarily closing each hole, pouring a layer of concrete upon the floor for a lower slab diaphragm to form a ceiling below the finished slab, pouring additional concrete into the reinforced spaces between pens to form the internal joists of the finished slab, pouring granular material into the pens to the height of the intended cavities, placing reinforcement above the poured concrete and granular material, pouring another layer of concrete to cover the granular material, mesh and already poured concrete, smoothing the upper surface of the soft concrete to form the upper surface of the finished slab, removing the granular material through the holes in the temporary floor after the concrete has set hard to leave hollow cavities in the finished slab, and removing the temporary floor and forms to leave a hollow monolithic concrete slab supported upon its permanent supports.

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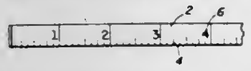
**2,648,117**
**APPARATUS FOR THE MANUFACTURE OF FILAMENTARY YARN**
**Thomas S. Mayner, Willoughby Township, Lake County, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware**
**Application September 9, 1948, Serial No. 48,434**
**5 Claims. (Cl. 28—71.7)**



1. In combination; a thread-advancing reel; a speed change transmission for driving said reel; said thread-advancing reel comprising at least two reel members mounted for rotation about axes eccentrically adjustable relative to each other so that upon rotation of the reel yarn is advanced in a plurality of turns in the form of a general helix; and a common control means for regulating the eccentric relation between the reel member axes and the speed of rotation of the reel.

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**2,648,118**
**TAPE**
**George W. Ewald, Short Hills, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey, and Martin Fabrics Corporation, New York, N. Y., a corporation of Delaware, jointly**
**Application April 15, 1949, Serial No. 87,647**
**4 Claims. (Cl. 28—80)**



1. A woven measuring tape having aligned straight warp threads of uniform length comprising glass fiber threads and saponified oriented cellulose acetate filament threads, said glass fiber threads and said cellulose acetate filament threads being present approximately in the ratio of 1 to 2.5, said glass fiber threads being distributed among said cellulose acetate filament threads throughout the warp pattern, a sinuous filling interconnecting said warp threads, a coating on the tape and graduations and numerals depicted on the tape.

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**2,648,119**
**ANODE FOR ELECTROLYTIC CONDENSERS**
**Joseph B. Brennan, Cleveland, Ohio**
**Application July 24, 1948, Serial No. 40,610**
**1 Claim. (Cl. 29—25.31)**



Method of continuously producing a homogeneous unitary self-supporting porous flexible electrode strip for electrolytic devices comprising continuously spraying molten metal particles onto a continuously moving base, maintaining the temperature of the base sufficiently low to chill the deposited metal layer upon deposition, and thereafter stripping the so-deposited material therefrom and thereafter forming a dielectric film thereon.

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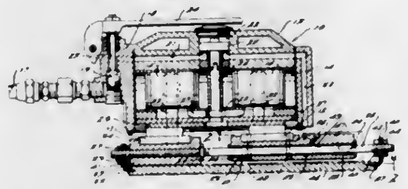
**2,648,120**
**CAPACITOR AND METHOD OF MANUFACTURE**
**Alfred F. Torrisi and Frederick W. Grahame, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York**
**Application July 14, 1951, Serial No. 236,768**
**3 Claims. (Cl. 29—25.42)**



1. In the manufacture of a capacitor having alternate sheets of dielectric material and conducting foil wound into a roll with a pair of terminal lead wires extending respectively from opposite ends of said roll, the method of hermetically sealing said roll within a T-shaped tubular glass case having an inside diameter greater than the diameter of said roll which comprises the steps of fusing the open end of a sealed capillary tube to one end of the run of said T-shaped case, inserting said roll through the opposite end of said case and one of said leads into the bore of said capillary tube so that said roll will be off center with respect to the lateral branch of said T-shaped case, fusing the open end of a second sealed capillary tube to said opposite end of said T-shaped case, moving said roll to the center of said case so that the other of said leads will extend into the bore of said second capillary tube a distance equal to the extension of said one lead into the bore of said first mentioned capillary tube, applying a vacuum to the lateral branch opening of said T-shaped case, then applying heat respectively to the portions of said capillary tubes adjacent the fused joint therebetween and said T-shaped tube whereby said leads are respectively and sealingly fused to said capillary tube, respectively breaking off the remaining portion of said capillary tubes exterior the portions fused to said leads, and then sealing off said lateral branch.



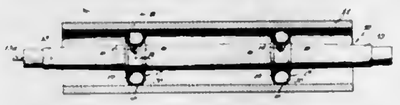
**2,648,121**
**FILING MACHINE**
**Lawrence J. Tansey, Detroit, and John B. Hoy, Ferndale, Mich., assignors, by mesne assignments, to Mechanical Finishing Co., a corporation of Michigan**
**Application October 18, 1947, Serial No. 780,632**
**8 Claims. (Cl. 29—76)**



1. A filing machine including a motor having two oppositely reciprocating work plates, a block secured to each of said plates, a rod attached to and supported rigidly by one block and slidably extending thorugh an aperture in the other block, brackets supported on the ends of the rod for relative adjustament toward and away from each other, and a file supported by the brackets, the weight of the block through which the rod extends being substantially equal to the weight of the other block, the brackets and the file.

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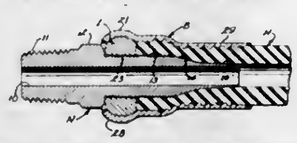
**2,648,122**
**ANTIDEFLECTION ROLL**
**Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin**
**Application August 4, 1950, Serial No. 177,677**
**3 Claims. (Cl. 29—113)**



3. A roll assembly comprising a rigid cylindrical outer shell, a rigid through shaft axially received thereby, separate and apart resilient and inflated tires adjacent but inwardly spaced from each end of the shell providing the sole support for corotatably mounting the shell on the shaft, said shaft having an axial bore for communication with a source of fluid under pressure and radial passages communicating with said bore, and means establishing communication between said radial passages and said tires.

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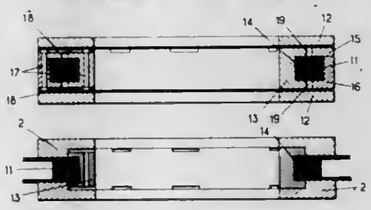
**2,648,123**
**METHOD OF MAKING A HOSE END COUPLING**
**Robert W. Phillips, University Heights, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio**
**Application November 26, 1949, Serial No. 129,613**
**3 Claims. (Cl. 29—148.2)**



1. A method of making a hose end comprising the steps of forming a body insert having a threaded bore and a polygonal periphery, forming a cylindrical body member, axially pressing said cylindrical body member with respect to a polygonal punch through a distance less than half the axial extent of the member to provide one end of the member with a polygonal mouth, removing said punch and inserting said polygonal insert in said mouth having a forward face adjacent thereto, reducing the diameter of the free edge of said mouth and pressing said edge into contact with said forward face of said insert, and reducing the other end of said body member for about half the axial extent thereof providing an unreduced portion between said insert and said other end.

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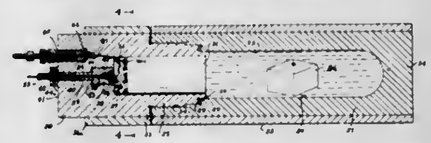
**2,648,124**
**METHOD OF MANUFACTURING ELECTROMAGNETS**
**Georges Duyck, Tangier, Morocco**
**Application August 6, 1948, Serial No. 42,971**
**In France August 9, 1947**
**1 Claim. (Cl. 29—155.57)**



A method of producing an electromagnet of annular form with an inner magnetic housing element formed with a pair of radial flanges of equal length, which flanges define therebetween an outwardly directed annular groove for a winding, said groove being of insufficient radial extent to allow said winding to be directly formed therein, comprising applying an insulating layer in said groove, applying provisional auxiliary means to radially extend said flanges, forming a winding directly in the extended groove thus formed by said inner housing element and auxiliary means, removing said auxiliary means, mounting around the outer peripheral position of said winding a concentric outer housing element formed with an inner groove for the formed winding and with inwardly extending radial flanges spaced from said first mentioned pair of flanges to provide annular air gaps on the lateral sides of said winding and interconnecting together said inner housing element and said outer housing element by the interposition of lateral radially extending spacer means.

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**2,648,125**
**PROCESS FOR THE EXPLOSIVE PRESSING OF POWDERED COMPOSITIONS**
**Philip M. McKenna, Greensburg, and John C. Redmond and Emlyn N. Smith, Latrobe, Pa., assignors to Kennametal Inc., Westmoreland County, Pa., a corporation of Pennsylvania**
**Application August 6, 1947, Serial No. 766,570**
**3 Claims. (Cl. 29—160.5)**

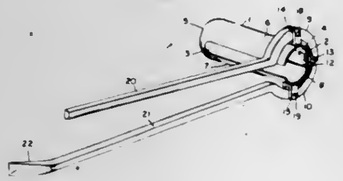


1. The improvement in the art of powder metallurgy comprising the surrounding of a pow-

der compact with a body of liquid and subjecting said body of liquid to explosive pressure transmitted thereby uniformly to said compact from all directions, to condense said compact uniformly.

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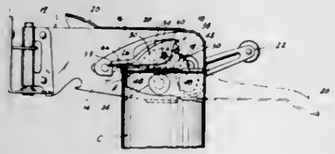
**2,648,126**
**AUTOMOTIVE WHEEL TOOL**
**Lloyd A. Flickinger, Denver, Colo.**
**Application June 13, 1950, Serial No. 167,867**
**4 Claims. (Cl. 29—268)**



1. A device of the character described, comprising an elongated flexible tubular body adapted to fit over the grease cup of an automobile wheel, open at one end and having a pair of diametrically opposed, longitudinally extending slots extending from such open end part way to the other end thereof, said tubular body having formed on its inner surface adjacent such open end a plurality of closely spaced circumferential grooves to provide a gripping surface, and a pair of jaws embracing opposite sides of said tubular body adjacent such open end and pivotally connected thereto at diametrically opposed points lying on a line normal to the median plane through such slots, said jaws being pivotally joined at one end and having their other ends extending radially of said tubular body to define handles.

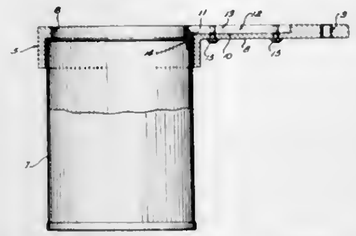
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**2,648,127**
**MAGNETIC LID HOLDER**
**Arthur E. Nelson, St. Louis, Mo.**
**Application August 20, 1948, Serial No. 45,400**
**2 Claims. (Cl. 30—6.4)**



1. In combination, means for severing the top from a can, a magnet assembly comprising a pair of parallel vertical plates and a rod-like permanent magnet interposed therebetween, integral depending projections on each of said plates adapted to contact a can top and to form therewith paths of low magnetic reluctance during said contact, an integral tab on each of said plates extending toward its counterpart on the other of said plates, said tabs cooperating to establish a path of relatively greater magnetic reluctance than said paths aforementioned, and providing a path of comparatively low magnetic reluctance during the absence of said contact aforementioned, and mounting means for disposing said magnet assembly in predetermined relation to said severing means.

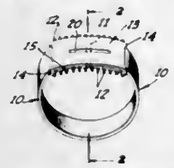
**2,648,128**
**CAN OPENER**
**William T. Tanking, Jr., Racine, Wis.**
**Application July 19, 1951, Serial No. 237,598**
**4 Claims. (Cl. 30—17)**



1. A can opener, comprising: a tubular cylindrical body adapted to coaxially receive an end portion of a can to be opened; shoulder means on said body adapted to engage the end wall of a can received in said body; an elongated handle projecting radially outwardly from said body and having a surface substantially flush with the end of said body adjacent said shoulder means, said handle being formed with an elongated recess in said surface, said recess extending through a portion of said body, and a cutter having an elongated portion positioned in said recess and fixed to said handle, said cutter having a blade portion spaced inwardly from the inner surface of said body and extending in an axial direction toward the opposite end of the body.

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**2,648,129**
**RAZOR**
**Hale B. Streeter, Van Nuys, Calif., assignor to Albert Bontempi, Alhambra, Calif.**
**Application January 31, 1949, Serial No. 73,781**
**1 Claim. (Cl. 30—74.1)**

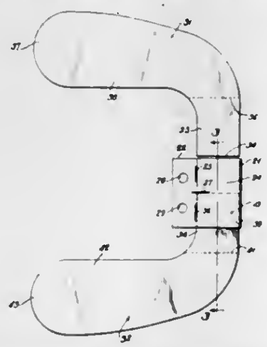


In a razor having a removable blade, the combination of: a rectangular carrier for said blade, said carrier being of greater width than said blade and having a plurality of rake-tooth-like projections formed along a lateral edge thereof and adapted to project beyond the cutting edge of a blade held on said carrier whereby to stretch skin ahead of said cutting edge, said carrier being divided along a transverse joint, into two portions, which portions are relatively movable in a direction substantially parallel to said cutting edge; a handle comprising a looped resilient member having its ends connected to said portions and being spring biased whereby to urge separation of said carrier portions, said looped member being further adapted to receive manual pressure to force said carrier portions together; and a guard plate removably secured to said carrier whereby to clamp said blade thereagainst with said cutting edge thereof in operative position, said guard plate having a boss formed therein adapted to engage a slot in said blade whereby to hold the same in said operative position, said guard plate having depending hooks on the ends thereof positioned to engage end teeth of said carrier whereby said separation pressure of said looped member secures said guard plate to said carrier and whereby said guard plate may be removed by said manual pressure applied to said looped member.



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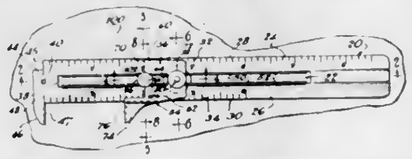
**2,648,130**
**PROSTHETIC TRANSFER RECORDER**
**Samuel K. Avery, Dolton, Ill.**
**Application August 1, 1951, Serial No. 239,780**
**8 Claims. (Cl. 32—20)**



1. A prosthetic recorder comprising a plate having thereon means for mounting the plate in a bite block, a pair of disposable condyle head locators formed of sheet material, and cooperating means on said plate and said locators for attaching one end of each of said locators to said plate, said locators being so arranged that the free flat ends thereof project from opposite sides of said plate and overlie the condyle heads of a patient.

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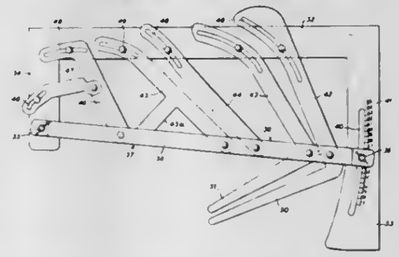
**2,648,131**
**COMPASS RULE**
**Louis J. Gordon and Louis Sheldon, Chicago, Ill.; said Sheldon assignor to said Gordon**
**Application November 23, 1949, Serial No. 128,972**
**4 Claims. (Cl. 33—27)**



3. A compass rule comprising a body having a straight longitudinal slot spaced from the bottom of said body and dividing said body into a pair of bars, one of said bars having a straight edge, a slider slidably keyed to and carried by said body and comprising a plate having a bridge extending over and across said slot and a pair of arms extending from the ends of said bridge and overlying said bars, clamping means associated with said bridge for retaining said slider in any desired position relative to said body, a pin support bracket carried by said slider and having an opening therein to receive a pin carried in said opening and extending into said slot and having a center point depressible into engagement with the work on which said rule rests, said support bracket being spaced from said bridge and above said slot whereby said center point of said pin is readily visible, said body having a pencil point receiving aperture, the plane of the axes of said aperture and said pin being parallel to said straight edge, and means on said slider cooperating with said straight edge for measuring the distance between said axes.

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**2,648,132**
**ROOF CONSTRUCTION**
**William Swires, Helsby, near Warrington, England**
**Application November 5, 1951, Serial No. 254,825**
**In Great Britain November 10, 1950**
**5 Claims. (Cl. 33—91)**



1. An instrument, for marking-off the angular cuts for the different members of a roof, comprising a frame, several marking-off members each having a curvilinear slot defining a characteristic direction of adjustment for its marking-off member, pivoting and guiding means passing through each slot so as slidably and pivotally to connect its marking-off member to the frame, a base member having an edge to be set against the timber to be cut and also having a pivotal connection to the frame and means pivotally connecting each marking-off member separately to said base member.

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**2,648,133**
**LIQUID DEPTH AND TANK DIAMETER MEASURING DEVICE**
**Bernard J. Kosmoski and George A. Meyer, Jersey City, N. J.**
**Application April 25, 1952, Serial No. 284,374**
**5 Claims. (Cl. 33—126.7)**

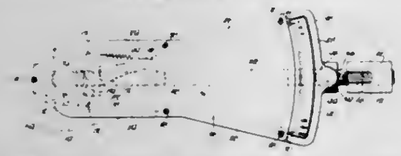


1. An instrument for measuring the diameter of a storage tank and simultaneously measuring the depth of liquid in said tank and thus ascertaining the amount of liquid contained in said tank comprising an insertable and removable depth measuring stick having depth denoting graduations, a complemental rod slidably connected with said stick, and a projectible and retractable tank engaging abutment carried by said

rod, said abutment being a block-member hingedly mounted on said rod, said stick constituting a sheath for the rod and having a laterally offset clearance pocket into which said block-member is foldable to an out-of-the-way position.

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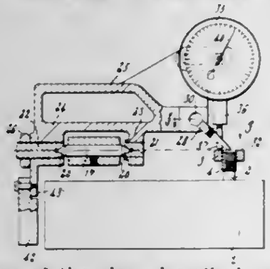
**2,648,134**
**MICROMETER GAUGE**
**Henry Robert Billeter, Highland Park, Ill., assignor to Ammco Tools, Inc., North Chicago, Ill., a corporation of Illinois**
**Application August 2, 1950, Serial No. 177,220**
**6 Claims. (Cl. 33—147)**



5. A brake drum gauge comprising a casing, a gauge bar mounted in the casing for longitudinal sliding movement therein and having an end projecting therefrom, said gauge bar having a longitudinally facing arcuate reference surface, a gauge pin mounted in said casing for free longitudinal sliding movement parallel with said gauge bar, said gauge pin having an end projecting from said casing and having an arcuate measuring surface facing longitudinally oppositely from said reference surface, means for fixedly positioning said gauge bar in any selected one of a plurality of predetermined spaced positions for varying the normal distance between said surfaces, a pointer mounted in said casing for swinging movement on an axis adjacent said gauge pin, means for translating linear movement of said gauge pin into swinging movement of said pointer, and a scale disposed within the casing adjacent and for cooperation with the swinging end of the pointer.

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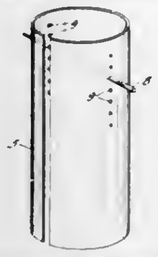
**2,648,135**
**FACE RUN-OUT GAUGE**
**Hessiar H. Gates, Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont**
**Application November 2, 1949, Serial No. 125,103**
**5 Claims. (Cl. 33—174)**



1. A gage of the class described comprising a support having means for supporting a work piece for rotation about an axis, a member carried by said support for motion generally lengthwise of said axis and having a pair of spaced elements engageable at their ends with an end face of a work piece so supported, said member being rockably mounted on an axis substantially intersecting a line joining said ends to permit said ends to automatically adjust to such engagement regardless of the angular relation of said end face to said axis, and an indicator carried by said member and having a stem positioned for engagement on said end face spaced at one side of a line connecting said element ends.

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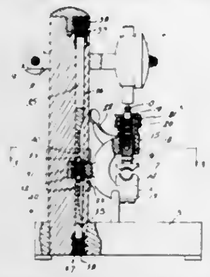
**2,648,136**
**PISTON RING FITTING DEVICE**
**Harold T. Lanigan, Minneapolis, Minn.**
**Application November 29, 1950, Serial No. 198,217**
**1 Claim. (Cl. 33—181)**



A ring positioning tool comprising an elongated split annular sleeve member, the upper portion of said sleeve having a number of vertically spaced horizontally opposed apertures formed therein, a stop rod selectively inserted through horizontally opposed apertures for engagement against the block adjacent the engine cylinder to limit the downward movement of said sleeve within the cylinder.

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**2,648,137**
**MOTION CONVERTER FOR SCREW THREAD COMPARATOR**
**Bror W. Swanson, West Hartford, Conn., assignor, by mesne assignments, to Anthony F. Kasprow, Felix A. Kasprow, Joseph W. Kasprow, Stephen G. Kasprow, all of New Britain, and Meyer E. Bailey, New Haven, Conn.**
**Original application April 28, 1948, Serial No. 23,732. Divided and this application August 17, 1951, Serial No. 242,310**
**3 Claims. (Cl. 33—199)**

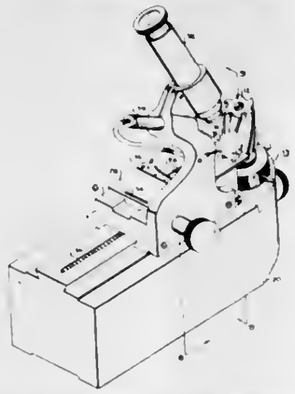


1. In a comparator for testing the condition of threads on articles, an upstanding post, a support positioned transversely of said post and mounted on said post for swinging movement about a vertical axis, an anvil portion and a head portion spaced vertically from each other on said support, a die positioned adjacent said head portion, and means connecting said die to said head portion for movement toward and away from said anvil portion, said means comprising a plunger arranged longitudinally of and mounted in said head portion for movement toward and away from said anvil portion and having the end adjacent said anvil portion carrying said die and having the end remote from said anvil portion projecting out of said head portion, a stud arranged transversely of and within said head portion and having one end fixedly secured to said plunger intermediate its ends and having the other end projecting through and beyond said head portion, a lever arranged exteriorly of and connected adjacent one end thereof to said head portion contiguous to said stud for rocking movement about an axis transverse of said head portion, and a disc rotatably mounted in said one end of said lever, there being an eccentrically disposed recess extending inwardly of said disc and receiving the projecting end of said stud.



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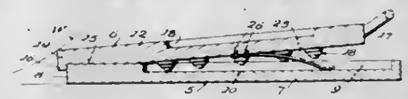
**2,648,138**
**CLEARANCE ANGLE GAUGE**
**Carl G. Gase, Macedonia, Ohio, assignor to The Weldon Tool Company, a corporation of Ohio**
**Application November 7, 1947, Serial No. 784,543**
**1 Claim. (Cl. 33—201)**



A gauge for measuring the clearance angle between a radius line extending through a spiral cutting edge and a back-off surface of a rotatable tool, said gauge comprising, a base providing an axis line and a radius line transversely intersecting said axis line, said base having a cylindrical opening concentric with said axis line, a carriage movable along said radius line on said base towards and away from said axis line and the cylindrical opening, a gauge member pivoted for angular positioning on said carriage and pivotally positionable in at least a first and a second position relative to said radius line, said gauge member providing a straight edge line extending at an angle to said axis line and also providing a sight line transversely bisecting said straight edge line, said gauge member when in said first position positioning said sight line in a common plane with said radius line and said axis line, said gauge member when pivoted to the second position positioning said sight line outside of said common plane, a tool mount tube rotatably and removably slidable in said cylindrical opening with the axis of the tool mount tube coextensive of said axis line to hold a spiral edged cutting tool concentrically slip fitted therein and with a cutting edge close to and at a spaced distance from said straight edge line and in sight extending alignment with said sight line when the sight line is in said common plane, said carriage and said base having an interassociated rack and gear operable to move the carriage towards the axis line when the gauge member is pivoted to the second position with the said edge line close to and parallel to the back-off surface of the tool and with the sight line out of said common plane and at an angle to the first position directly representing the clearance angle of the tool.

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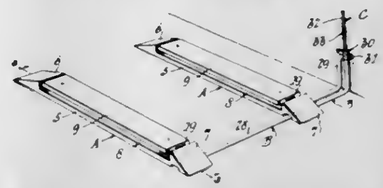
**2,648,139**
**AUTOMOBILE WHEEL SUPPORTING TURNPLATE**
**Edward D. Wilkerson, Orange, N. J.**
**Application January 16, 1950, Serial No. 138,751**
**7 Claims. (Cl. 33—203)**



1. An automobile wheel supporting turn plate structure comprising, a supporting base plate, a turn plate mounted on said base plate, a plurality of anti-friction units interposed between said plates for permitting free rotary and planetary movement of the turn plate over the base plate, and each said plate having a radially projecting ramp extension, said extensions being adapted to lie one over the other and serve as a run-up ramp for a wheel being rolled onto the turn plate and being equipped with interlocking means for preventing movement of the upper ramp extension relative to the lower ramp extension as a wheel is being rolled up over said ramp extensions onto the turn plate.

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**2,648,140**
**SCUFF BOARD FOR TESTING AUTOMOBILE WHEEL ALIGNMENT**
**Edward D. Wilkerson, Orange, N. J.**
**Application January 16, 1950, Serial No. 138,752**
**8 Claims. (Cl. 33—203.14)**



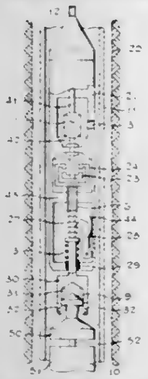
1. A scuff board structure comprising a base having a wheel receiving portion and a wheel discharging portion, a unitary longitudinal scuff board supported on said base between said receiving and discharging portions and of a width for receiving thereon a single wheel and being free at one end thereof to move laterally or forwardly or both laterally and forwardly, antifriction means interposed directly between said scuff board and base and supporting the board on the base and means at the other end of the scuff board for confining the scuff board against lateral movement at said other end while permitting a limited amount of forward movement.

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**2,648,141**
**OIL WELL ORIENTING APPARATUS**
**Alexander B. Hildebrandt, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application June 5, 1948, Serial No. 31,367**
**5 Claims. (Cl. 33—205)**

1. Oil well orientation apparatus comprising a housing, means for suspending said housing in a well, a first vertical shaft rotatably sup-

ported within said housing, a first clutch element fixed to said vertical shaft, a gyroscopic element connected to said first vertical shaft and adapted to maintain said first clutch element normally in a fixed azimuthal direction, a second vertical shaft slidably supported by said housing, fixed against rotation in said housing, and extending exterior of said housing, a second clutch element attached to said second



shaft and engageable with said first clutch element upon sliding of said second shaft, a spring element normally urging said second shaft in a direction opposing engagement of said clutch elements, an engageable member attached to the exterior portion of said second shaft and adapted for lifting engagement with a body in the well whereby upon said engagement and upon exertion of a lifting force by said suspending means said clutch elements will engage.

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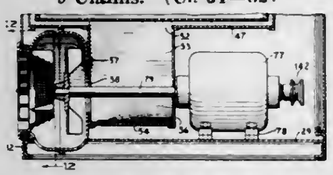
**2,648,142**

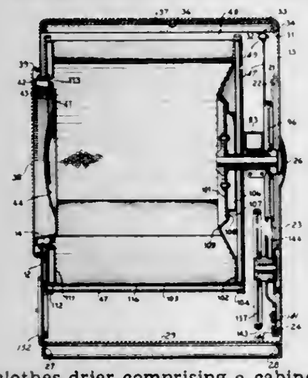
## CLOTHES DRIER

**Robert D. Shapter, Corry, Pa., assignor, by mesne assignments, to The Murray Corporation of America, a corporation of Delaware**

**Application August 16, 1947, Serial No. 768,987**

**9 Claims. (Cl. 34—82)**





1. A clothes drier comprising a cabinet having a front wall access opening, a housing mounted in said cabinet, a drum in said housing mounted for rotation about a horizontal axis, the front walls of said housing and said drum having openings registering with the opening in said cabinet, a door mounted on said cabinet adapted to simultaneously close the openings in said cabinet, housing and drum, said housing having an air inlet aperture adjacent the top of said cabinet and an exhaust duct at the bottom thereof, a further housing connecting said duct with the exterior of said cabinet, a centrifugal air circulator and conical-shaped lint trap having radial vanes on the exterior in the path of circulating air mounted in said last mentioned housing, and means for simultaneously operating said air circulator and rotating said drum.

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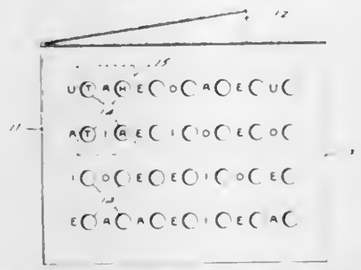
**2,648,143**

## WORD GAME DEVICE

**Frederick C. Meeder, Grandville, Mich.**

**Substituted for abandoned application Serial No. 17,330, March 26, 1948. This application February 25, 1952, Serial No. 273,221**

**1 Claim. (Cl. 35—35)**



A word game device comprising a folder including elongated flaps connected at their ends and adapted to be arranged in closed and opened positions, one flap being provided with a plurality of spaced longitudinal rows of equidistantly spaced openings and having vowels printed upon its outer face adjacent to and at the left side of the openings, and a plurality of separate cards which are much smaller than the flaps so that a plurality of longitudinal rows of cards may be arranged between the flaps and covered by them, each card having a plurality of correspondingly spaced rows of consonants spaced apart equal to said spaced openings printed upon one face thereof, the cards being of such a size and the consonants so oriented thereon that when one card in a longitudinal row has its edge brought into alignment with the free transverse edge of the flap having the openings and the other cards in the row are assembled so that their edges contact, the consonants of all cards in the row will be visible through the openings of the flap, the arrangement being such that when the flaps are closed they closely confine the cards therebetween to hold the rows of cards in place.

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**2,648,144**

## BIAXIAL SHOE

**Harry Charles Stein, Yonkers, N. Y., assignor of one-fifth to Leonard J. Stein, Houston, Tex., one-fifth to Stanley M. Stein, New Orleans, La., one-fifth to Melvin Stein, Jackson Heights, N. Y., and one-fifth to Frank R. Stein, Yonkers, N. Y.**

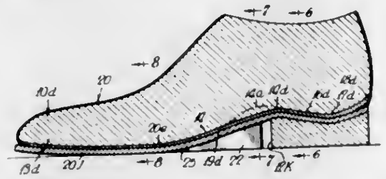
**Application September 19, 1951, Serial No. 247,245**

**8 Claims. (Cl. 36—8.5)**

1. A shoe comprising a central portion having a longitudinal axis extending from the region of



the center of the ankle through the third metatarsal head region, and a level heel for supporting the foot in an upright position having an unyielding laterally extending projection extending



from the front lateral end of the heel to approximately the middle of the rear end of the heel, said projection at approximately the middle exterior side being equal in distance to the eccentricity of the calcaneal tubercle.

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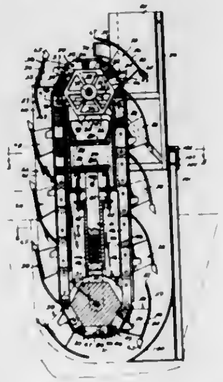
**2,648,145**

## ENDLESS BUCKET CHAIN STRUCTURE FOR TRENCHING MACHINES

**Albert R. Askue, Euclid, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio**

**Application May 25, 1950, Serial No. 164,241**

**2 Claims. (Cl. 37—192)**



1. An excavator chain support and guide for a trenching machine, said support and guide comprising an elongated substantially rectangular vertically extending hollow frame, a rectangular post extending downard therefrom, a hollow rectangular frame extension, a spring in said extension and interposed between the extension and the post, means to limit the movement of the frame, a wheel rotatably mounted at the top of said hollow frame, a second wheel mounted at the bottom of said frame extension, an endless excavator chain looped about said wheels and said frame, an elongated vertically extending channel secured to one side of said frame and having a web portion disposed between one stretch of said chain and said frame and extending substantially from one wheel to the other, said channel having a pair of spaced outwardly extending side flanges embracing the buckets of said chain, and a pair of spaced guide rails mounted on said channel and extending throughout its entire length to form a rigid guideway along which the chain slides to prevent buckling of the chain.

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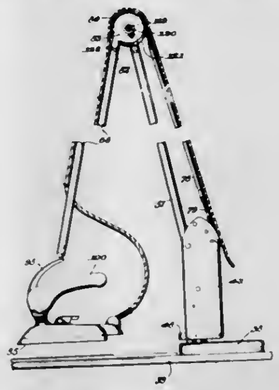
**2,648,146**

## JOINTED SUPPORTING ARMS FOR FLATIRONS

**Edwin E. Foster, Austin, Tex., assignor to Majik-Ironers. Inc., Austin, Tex., a corporation of Texas**

**Application April 13, 1951, Serial No. 220,956**

**18 Claims. (Cl. 38—30)**



1. A supporting device for an iron comprising a support fixed against vertical movement, a first arm pivoted on the support on a horizontal axis, a second arm pivoted to the free end of the first arm on a horizontal axis, a first cam member fixed to the support adjacent to the pivot for the first arm thereon and having a curved outer surface, a second cam member fixed to the second arm adjacent to its pivotal connection to the first arm and having a curved outer surface, and a tension element passing over and engaging the curved outer surfaces of the cam members and secured at its ends in the support and the second arm against longitudinal movement relative to the cams to guide the free end of the second arm for movement in a horizontal plane as the arms are swung about their pivots.

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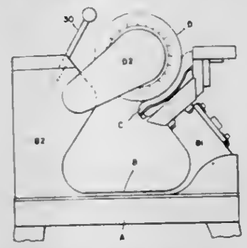
**2,648,147**

## IRONING MACHINE

**Herman A. Sperlich, Highland Park, Mich., assignor to Ironrite, Inc., Mount Clemens, Mich., a corporation of Michigan**

**Application July 24, 1948, Serial No. 40,451**

**4 Claims. (Cl. 38—59)**

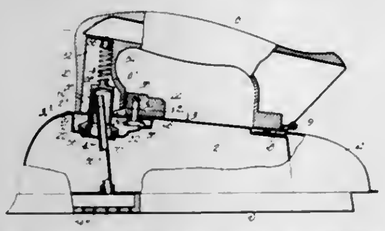


1. In an ironing machine having a pair of cooperating ironing elements one of which is mounted for movement to and from the other, the combination therewith of an arm rigidly connected with the movable element, said arm having an extension member oscillatably mounted thereon; a cam follower carried by said extension member; a rotatable cam acting upon said

follower to positively move said movable ironing element into operative relation to its companion ironing element; spring means acting upon said extension member and arm to constantly tend to separate said ironing elements, said spring means also acting upon the extension member to normally bias it to a position relative to the arm in which the line of contact between the cam follower and the cam is disposed beyond the dead-center line between the axis of oscillation of the extension member and the axis of rotation of the cam, whereby the cam may counteract the tendency of the spring means to separate the ironing elements: and means volitionally engageable with said extension member to shift it relative to the arm against the biasing action of the spring means and thus move said line of contact between the cam and follower to the other side of said dead-center line, whereby the spring means may move said arm irrespective of the cam and quickly separate the ironing elements in case of emergency.

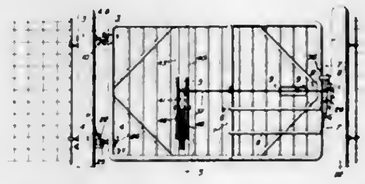
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**2,648,148**
**STEAM IRON**
**Robert J. Scott, Blue Springs, Mo., and Nicholas M. Rusko, Mission, Kans., assignors to John C. Hockery, Kansas City, Mo., trustee for Henry J. Talge and Foster L. Talge, Kansas City, Mo.**
**Application January 2, 1951, Serial No. 203,912**
**3 Claims. (Cl. 38—77)**



1. In a steam iron, a sole plate having a steam outlet port in its lower surface, a boiler mounted on the upper surface of the sole plate and having in its upper wall a filler opening, a steam discharge tube communicating at its lower end with said steam outlet port and extending upwardly through said boiler, the upper end of the tube projecting outwardly through said filler opening and terminating above the boiler, a handle including a hollow post normally juxtaposed over said opening with its lower end in fixed vertically spaced relation thereto, an inverted cup-shaped member having its upper end within said hollow post and covering the upper end of said tube, spring means between the post and member urging the latter downwardly so its lower rim projects below the post and seats on said boiler around the margin of the filler opening thereby to seal the opening, said post having transverse to its axis a fixed web disposed intermediate the ends of said cup-shaped member and containing an aperture through which the medial portion of said member extends, a latch releasably securing the post in said normal position, said post being displaceable upwardly upon release of the latch, and a plurality of circumferentially spaced shoulders on the exterior of said member projecting outwardly above said web whereby the upward displacement of said post is transmitted to said member by said web and shoulders thereby to lift said member with the post and hence uncover the filler opening and the upper end of said tube.

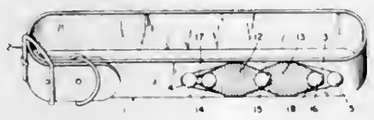
**2,648,149**
**VEHICLE ACTUATED GATE**
**Felix S. Sefcovic, Pueblo, Colo., assignor of fifty per cent to Bernstein Bros. Pipe & Machinery Company, Pueblo, Colo., a corporation of Colorado**
**Application September 13, 1949, Serial No. 115,501**
**3 Claims. (Cl. 39—37)**



1. A vehicle actuated gate comprising means hinging one end of a gate to a gate post for automatic closing movement of the gate, a latch at the free end of the gate holding the gate in closed position, a vertical lever pivoted intermediate its ends at each side of the gate with the lower ends of the levers in the path of a vehicle approaching the gate from opposite directions for swinging the lower ends of said levers inwardly of the gate by impact of the vehicle to swing the outer ends of said levers outwardly of said gate, guards on said gate at opposite sides of said levers exposing the lower ends of said levers to impact by the vehicle and preventing impact of the vehicle with said levers above said lower ends, and means connecting the upper ends of said levers separately to said latch for releasing said latch by outward swinging of said upper ends.

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**2,648,150**
**LICENSE TAG HOLDER**
**Michael Sullivan, Youngstown, Ohio**
**Application January 8, 1952, Serial No. 265,506**
**8 Claims. (Cl. 40—10)**



4. A tag mounting means for a flexible member such as for dog and cat collars, comprising a rigid tag supporting plate, means mounting said tag supporting plate on said flexible member, tag means and means for removably mounting said tag means on said tag supporting plate, said tag means comprising a plurality of tags, said means for removably mounting said tag means on said tag supporting plate comprising a plurality of key hole slots having enlargements, said slots extending through said rigid tag supporting plate and a plurality of tag rivets extending through the tag means and engaging in said key hole slots, said means mounting said plate on said flexible member including a plurality of plate rivets extending through said plate and flexible member, and a locking spring pivotally mounted on one of said plate rivets and having a nose adapted to prevent movement of said tag means, the spacing of said tag rivets being the same distance as the distance between said enlargements of said key hole slots.



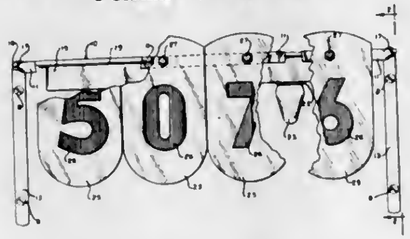
**2,648,151**
**OBJECT FOR DISPLAY**
**George C. Kindred, Scarsdale, N. Y., assignor to Kindred MacLean & Company, Inc., Queens Village, N. Y., a corporation of New York**
**Application September 15, 1950, Serial No. 185,048**
**2 Claims. (Cl. 40—126)**



1. An article for display comprising a lower section having a front and a back layer of sheet material secured along their side edges and separated at the top and bottom edges, an upper section having a front and back layer attached along the side edges and separated at the bottom edge, the back layer of the upper section being hinged along its lower edge to the upper edge of the back layer of the lower section, and an elongated rigid removable member between the layers of the lower section and projecting between the layers of the upper section, to hold the upper section in position with its front layer at its lower edge overlapping the top of the lower section, said member having a foot engaging to the front and rear of the bottom of the lower section, and projecting therefrom.

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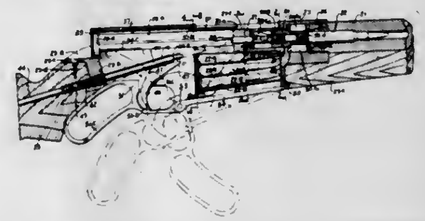
**2,648,152**
**ILLUMINATED HOUSE NUMBER**
**Frank L. Simpson, Denver, Colo.**
**Application August 15, 1949, Serial No. 110,242**
**3 Claims. (Cl. 40—130)**




1. In a combined porch light and illuminated house number device, a substantially U-shaped horizontal frame having angularly disposed supporting arms extending from the opposite ends of the U-shaped frame providing means for mounting the frame on a supporting surface, removable and interchangeable numeral-carrying translucent plates carried by the forward portion of the frame to be disposed in upright position, means for removably attaching the plates to said forward frame portion, a normally horizontally disposed elongated box-like casing having end flanges and extending from end to end of the frame and interconnecting the end portions thereof to reinforce said frame, lamp sockets disposed up-right within the casing, lead-in electric wiring connected to said sockets and adapted to be plugged into a source of electric current, and lamp bulbs disposed within the sockets behind the numeral-carrying plates to illuminate the same and to unobstructedly illuminate the area below and in the general vicinity of the device.

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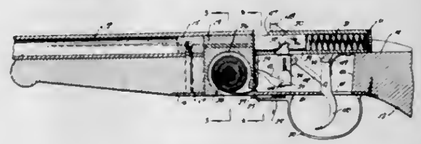
**2,648,153**
**OPERATING LEVER MEANS FOR BREECH CLOSING MECHANISMS**
**Allen A. Dicke, Montclair, N. J.**
**Original application February 9, 1945, Serial No. 576,967. Divided and this application May 21, 1949, Serial No. 94,540**
**4 Claims. (Cl. 42—16)**



4. In a breech-loading firearm, in combination, a receiver formed with a forwardly facing abutment face, a breech-closing unit reciprocably mounted in said receiver for movement rearwardly and forwardly therein comprising a locking member having a rearwardly facing surface engaging with said abutment face when in locking position and a member for operating said locking member, and means for reciprocating said breech closing unit consisting of an operating lever pivoted at one end to said member which operates said locking member and pivoted intermediate its ends to one end of a link whose other end is pivoted to the receiver below the point where the lever is pivoted to the member which operates said locking member, whereby a link and slider kinematic chain linkage is provided, the links being the said link and the said operating lever and the slider being said breech closing unit reciprocable in said receiver, by means of which linkage a relatively large movement of said lever during the first part of its movement gives a relatively small movement to the reciprocating breech closing unit while the locking member is being moved to disengage its locking surface from said abutment and whereby the breech closing unit serves to guide and control the movements of the operating lever and the link.

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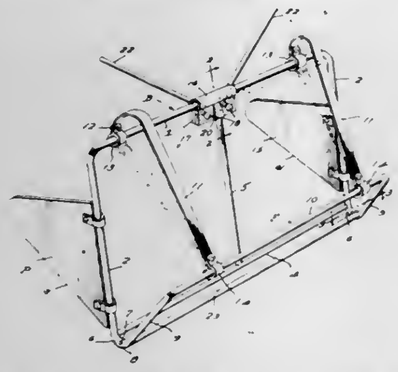
**2,648,154**
**REPEATING CAP GUN**
**Thurman M. McGregor, Houston, Tex.**
**Application May 17, 1949, Serial No. 93,773**
**6 Claims. (Cl. 42—57)**



1. In a toy cap firing rifle, a stock having a butt end, a stock extension integral with and projecting forwardly from the stock and having a groove in a top edge thereof, a tubular barrel within said groove, a plug within the barrel,

a take-down screw extending through said extension and threaded into the plug holding the barrel in said groove and in a fixed relation to the stock extension, said stock extension having a slot transversely therethrough provided with a vertical front end wall, a magazine of block formation within said slot having a front surface engaging said front end wall, said magazine having a recess therein for receiving a rolled strip of caps, said barrel having a cut-away portion receiving an upper end of the magazine, a rear surface on said magazine forming an anvil within an outline of the barrel and arranged generally transversely of the axis of the barrel, means for guiding the strip of caps from the roll along said rear surface and over the anvil, and means for releasably retaining the magazine in said position.

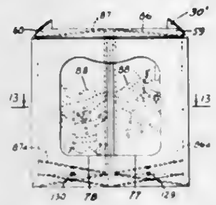
**2,648,155**
**COLLAPSIBLE BOOKSTAND**
**Della F. Shea, Los Angeles, Calif.**
**Application August 9, 1951, Serial No. 241,045**
**2 Claims. (Cl. 45—80)**



1. In a collapsible book stand, an open elongated rectangular main frame, a bar connecting the upper and lower sides of said frame at its center, substantially triangular supports each having a side edge thereof hingedly connected with the vertical end portions of said frame to hold the latter in a rearwardly inclined position when they are swung into substantially right angular relation with respect to the back of the frame, a second narrower frame of equal length to that of said main frame hingedly connected at the corners of one of its sides to the corners at the lower side of the main frame, and spaced strap members extending between and connecting the top sides of said frames together in a manner to support said second frame in a forwardly and upwardly inclined position relatively to said main frame, said strap members being slidably adjustable relatively to each other and to said frames.

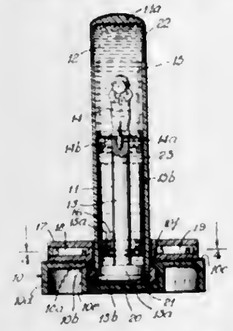
**2,648,156**
**DUAL CONTAINER WITH VIEWING WINDOW**
**William Homer Colgate, West Redding, Conn.**
**Application July 30, 1947, Serial No. 764,666**
**20 Claims. (Cl. 46—11)**

1. In combination, a plurality of substantially rectangular enclosures adapted to be disposed side by side in abutting relationship in a single line of substantially rectangular shape and means mounting successive adjacent pairs of said enclosures for swinging movement about a common axis coinciding with a line in the surface of each of the respective adjacent enclosures,



said common axes being disposed alternately at the front and rear common edges of the enclosures when the latter are disposed in said single line.

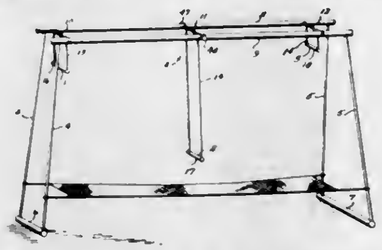
**2,648,157**
**MAGNETIC WAND ACTUATED TOY**
**Jack C. Wilson, Garden City, and Harry W. Wilson, Hempstead, N. Y.**
**Application June 22, 1950, Serial No. 169,716**
**5 Claims. (Cl. 46—45)**



1. A magnetic toy of the character described, comprising a closed container, a transparent wall in said container, a transparent fluid confined within said container, a human figure or the like mounted within said container and normally visible through said transparent wall, a screen which is buoyant in said fluid being mounted in said container for upward movement to conceal said human figure and for downward movement to reveal said human figure, magnetic means associated with said screen for integral movement therewith, a wand which is movable outside the container, and a magnetic element which is movably mounted in said wand, said magnetic element being movable to one position in said wand where it is able to influence said magnetic means, and being movable to another position in said wand where it is unable to influence said magnetic means.

**2,648,158**
**MAGNETIC TOY TRAPEZE**
**Jay Carl Young, Angier, N. C.**
**Application March 11, 1953, Serial No. 341,637**
**13 Claims. (Cl. 46—45)**

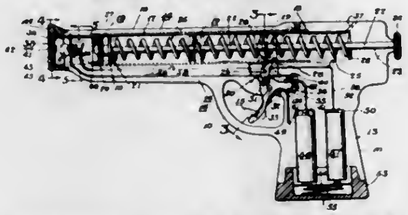
1. A magnetic toy amusement device comprising a framework, a plurality of trapezes supported by said framework, a figure of a trapeze artist, said plurality of trapezes including a pair of trapezes located adjacent to each other, at least one of said trapezes being swingable, whereby said trapeze artist may be transferred from one trapeze to an adjacent trapeze, armature unit means, and Alnico magnetic unit means, one of



said unit means being mounted on at least one of said trapezes and the other of said unit means being mounted on said figure.



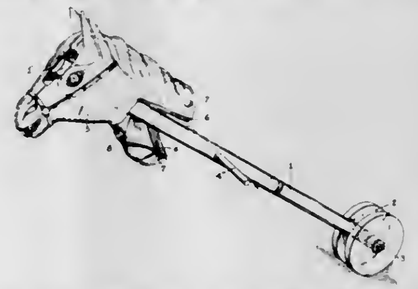
**2,648,159**
**TOY SIREN AND CHROMATIC GUN**
**Isadore Rotfeld, Philadelphia, Pa.**
**Application February 7, 1952, Serial No. 270,375**
**4 Claims. (Cl. 46—49)**



2. In a toy gun having a handle, a trigger and a barrel, mechanism for producing a plurality of moving colored light beams, said mechanism comprising an electric light bulb mounted within the barrel somewhat inward of the muzzle thereof, one or more dry-cell batteries, an electrical circuit operatively connecting the batteries to the bulb and including a normally-open switch constructed and arranged to be closed when the trigger is pulled, a compressed air actuated siren rotor mounted in the muzzle of the barrel and carrying a plurality of driving vanes and a plurality of small light-transmitting colored jewels of glass adapted to be illuminated from within the barrel by the bulb, an open-ended cylinder disposed within the barrel behind the rotor, a piston constructed and arranged to move in fluid-tight relation to the cylinder, a spring constructed and arranged to drive said piston forwardly within the cylinder so as to compress air within the front end of the barrel behind the rotor and thereby to cause rotation of the siren rotor, means for manually retracting the piston against the pressure of its spring, and a pivoted locking-member for holding the piston in retracted loaded position and for releasing it when the trigger is pulled, pulling of the trigger causing air-actuated rotation of the siren rotor so as to produce a prolonged wailing noise and emission of a rotating bundle of colored-light beams from the muzzle of the toy gun.

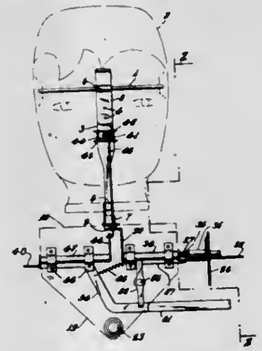
**2,648,160**
**SOUND-MAKING WHEELED STICK HORSE**
**Noble Van Voorhis, Los Angeles, Calif.**
**Application March 30, 1950, Serial No. 152,851**
**1 Claim. (Cl. 46—98)**

A sound-making toy horse including a horse head of soft flexible material and hollow and made to imitate the natural appearance of a horse's head, a sound-making element in the wall of said horse's head and operable to make a sound as said horse's head is compressed to force air through said sound-making element, an insert member filling the neck of said head, a riding



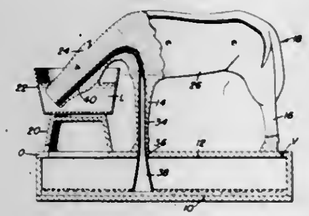
stick inserted through said insert member and extended to the forehead of said horse's head to hold the head extended from said insert member, a wheel on the lower end of said riding stick, and a handle on said riding stick toward the horse's head and extending from opposite sides for two hands to grasp, when straddling said riding stick.

**2,648,161**
**ANIMATED DOLL**
**Henry P. Stewart, Binghamton, N. Y.**
**Application November 20, 1951, Serial No. 257,368**
**10 Claims. (Cl. 46—120)**



1. An animated doll having a hollow body and head for insertion of a mechanical unit, a supporting frame for said unit mounted in the torso of the doll; a resilient head supporting member extending into the head and having one end fastened thereto, the other end of said member being supported in said frame, a first arm supported from said frame, gear means connecting said arm to said head support, whereby when the arm is moved up and down the doll's head will be turned from side to side; a rod connected at one end intermediate the two ends of said head support, a second arm supported from said frame, a shaft connecting said arm to said rod, whereby when said second arm is moved down the doll's head will be bowed; a lever extending from the doll's body, a pivot member mounted in said frame and connected to said lever and to said first and second arms whereby when said lever is pushed in the arms will be moved towards one another as in clapping.

**2,648,162**
**TOY DRINKING ANIMAL WITH CAPILLARY TUBE**
**Jacob F. Moeller, Cincinnati, Ohio**
**Application November 13, 1950, Serial No. 195,316**
**6 Claims. (Cl. 46—141)**



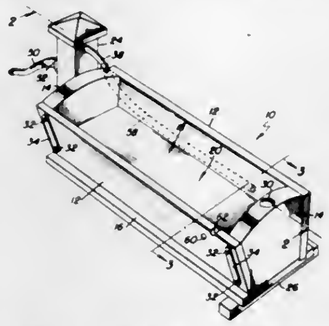
5. A toy comprising a hollow base, an imitation animal supported on the base, a support rising from the base, a container on said support and open at its top permitting observation of the liquid within it, said animal including a head portion received in said container, and a siphon carried by said animal and including a vertical portion extending into the base and a vertically inclined portion forming a capillary tube.

**2,648,163**
**PRODUCTION OF EDIBLE MUSHROOM MYCELIUM**
**Joseph Szuecs, Yonkers, N. Y., assignor of one-tenth to George M. Wiles, Roslyn, N. Y.**
**No Drawing. Original application December 6, 1947, Serial No. 790,227. Divided and this application July 14, 1949, Serial No. 104,821**
**8 Claims. (Cl. 47—1.1)**

1. The method of growing edible mushroom mycelium, which comprises growing an inoculum of an edible mushroom in a moist nutrient medium having a friable plastic consistency including interpermeating particulate organic material containing nutrient support material, and aerating the medium by passing air through the medium between the particles of support material until the particles are overgrown with the mycelium within a time up to about 10 days, said air being introduced in finely dispersed form from below said medium at a rate sufficient to supply the oxygen required by the mycelium in its normal growth processes and also sufficient to maintain the carbon dioxide concentration below that which would destroy the growing mycelium.

**2,648,164**
**FLOWER BOX**
**Willard R. Bruch, Yreka, Calif.**
**Application May 22, 1950, Serial No. 163,557**
**1 Claim. (Cl. 47—38)**

An elongated flower box comprising, a pair of side walls, a pair of end walls, a bottom and a false bottom defining an air-tight water chamber in the lower portion of the box, one of the end walls having a filling duct therein communicating with the chamber, a vertically elongated housing on the other end wall extending below the first named bottom for supporting one end of the box in elevated position, an outlet tube in the housing having one end communicating with the lower portion of the chamber, a spout on the other end of the tube for discharging water into the box, and a pump in the housing communicating with the upper portion of the chamber for forcing air



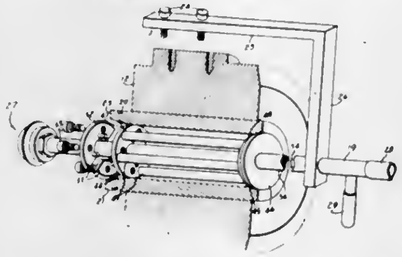
under pressure thereinto for discharging the water therefrom through the tube.

**2,648,165**
**SEED CARRIER**
**Leonard R. Nestor, Minneapolis, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware**
**Application June 4, 1945, Serial No. 597,478**
**7 Claims. (Cl. 47—56)**




1. A flexible carrier for seeds comprising a permanently water-soluble, non-proteinaceous adhesive material having self-sustaining dry strength and having wet strength insufficient to be self-sustaining, and seeds supported thereby in predetermined spaced relation to each other.

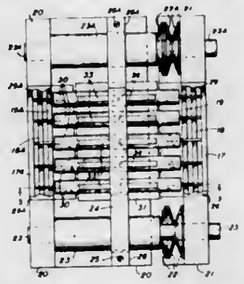
**2,648,166**
**INTERNAL LATHE BURNER**
**Floyd A. Fisher and Walter H. Kohl, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**
**Application March 6, 1950, Serial No. 147,918**
**2 Claims. (Cl. 49—1)**



1. Apparatus for supporting an internal burner connected to a longitudinal member which extends through one of the stocks of a lathe, comprising a pair of disc-shaped collars rotatably connected to said longitudinal member, said disc-shaped collars rotatably supported by said stock, and a holding bracket connecting said stock to said longitudinal member.

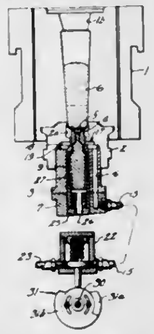


**2,648,167**
**MACHINE FOR MANUFACTURING SWITCHES**
**Walter B. Ellwood, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application December 18, 1948, Serial No. 66,084**
**10 Claims. (Cl. 49—14)**



2. A machine for manufacturing a switch of the type having at least two spaced electrodes comprising first means for holding one of said electrodes, second means for holding another of said electrodes in an initial position with respect to said one of said electrodes, and thermally-expansible means connected to both of said means for controlling the relative positions of said first and said second means to critically space said electrodes.

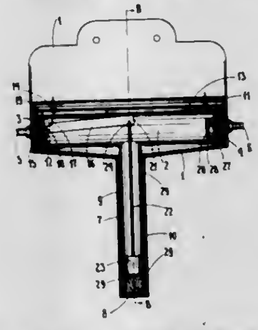
**2,648,168**
**SUCTION SETTLE AND COUNTERBLOWING PROCESS AND APPARATUS**
**George E. Rowe, Wethersfield, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware**
**Application November 10, 1950, Serial No. 195,012**
**6 Claims. (Cl. 49—69)**



1. The method of molding a glass charge into a hollow parison within a body mold and a neck ring mold having a hollow ended neck pin located therein which comprises depositing the charge on the neck pin within the neck ring mold under atmospheric pressure, capturing a mass of air beneath said charge and within the hollow end of said neck pin, placing a second and lower pressure between said neck ring mold and pin on said charge within said neck ring mold, said pressure being less than the atmospheric pressure which forces a portion of said charge to fill said neck ring mold and less than the pressure in the hollow of said neck pin, gradually heating and expanding the air within said neck pin to progressively enlarge a bubble in said glass and thereafter introducing counterblowing air through the hollow in said neck pin to expand and counterblow said charge into overall molding engagement with the mold.

4. Apparatus for molding a glass charge into a hollow parison including a neck wing mold, a hollow-ended neck pin located within said neck mold for supporting the charge therein, means including a concave wall forming a hollow in the end of the neck pin for capturing a mass of air beneath said charge and within the hollow end of said neck pin, a valve for opening and closing a passage connecting the hollow in said neck pin with a chamber containing air under superatmospheric pressure for counterblowing, means for establishing subatmospheric pressure beneath said charge and adjacent said pin within said neck wing mold, and means for operating said valve to open said passage while maintaining said subatmospheric pressure.

**2,648,169**
**TRANSFORMER FOR AIR AND THE LIKE**
**Leslie Craig, Nelson, New Zealand**
**Application May 22, 1950, Serial No. 163,425**
**In New Zealand June 3, 1949**
**2 Claims. (Cl. 50—31)**

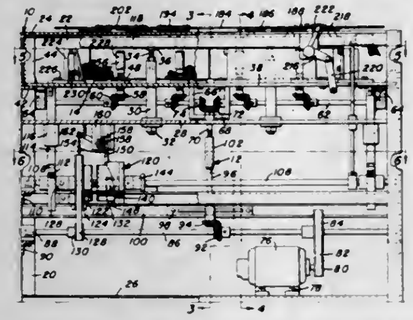


1. A gas pressure reducing transformer comprising an outer casing and an inner casing within said outer casing forming separate chambers and each being of T-shaped form provided with depending tubular stem portions the head portion of the outer T being sloped to drain into the stem portion thereof, the outer stem having a bottom closure and the inner stem being within and spaced from said outer stem and being at its lower end in communication with the annular space between said stems, a mercury seal at the lower end of said stems normally closing off communication therebetween, high pressure inlet and low pressure outlet connections to the inner chamber, a valve controlling said inlet, operating means for said valve including a member depending within said inner stem having a float at the lower end thereof which at normal level of the mercury seal holds said valve open but upon displacement of mercury by increased pressure within said inner chamber and the dropping of said float will close said valve, the upper end of said outer chamber being in free communication with the external atmosphere.

**2,648,170**
**CORE CLEANER**
**Ernie Byron Esters, Highland Park, Mich.**
**Application January 22, 1951, Serial No. 207,208**
**9 Claims. (Cl. 51—3)**

1. A core cleaning machine comprising a supporting structure including a core support, a

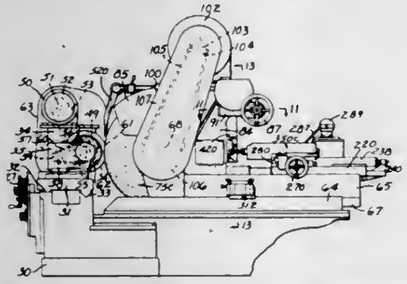
reamer support mounted on said supporting structure for movement relative to said core support towards and away from a core carried by the latter, a reamer rotatably mounted on said reamer support for movement about an axis parallel to the direction of movement of the reamer support, means connected to the reamer for rotating the same, means connected to the reamer support for moving the same, drive means connected to said reamer rotating means and said



reamer support moving means, and means selectively connecting said reamer support moving means with said driving means for cyclically driving said reamer support moving means, abrading means mounted for movement transverse the direction of movement of said reamer support means for removing projections on a core carried by said core supporting means, and means responsive to movement of said reamer support means for moving said abrading means.

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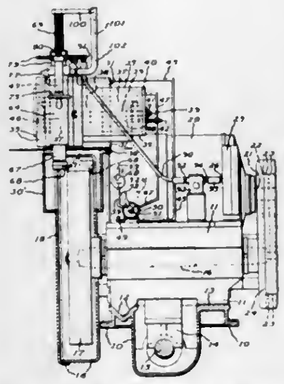
**2,648,171**
**MULTIPLE WHEEL GRINDING MACHINE**
**Olva E. Hill, West Boylston, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**
**Application December 1, 1951, Serial No. 259,372**
**17 Claims. (Cl. 51—5)**



1. In a grinding machine having a transversely movable wheel slide, a rotatable grinding wheel thereon, means to feed said slide in either direction to facilitate grinding a workpiece to a predetermined size, and a truing apparatus on said slide including a cross slide movable in a direction normal to the axis of the grinding wheel, means to move said cross slide in either direction, a longitudinally movable carriage on said cross slide, means to traverse said carriage longitudinally in either direction parallel to the axis of the grinding wheel, a longitudinally adjustably truing tool unit on said carriage including a truing tool carrier arranged to move in a direction normal to the axis of the grinding wheel, a forming bar on said cross slide, a follower on said carrier, means to maintain said follower in engagement with said bar during longitudinal movement of the carriage, a truing tool rotatably supported on said carrier, and a cam-actuated indexing mechanism on said carrier rotatably to index said truing tool automatically by and in timed relation with movement of the cross slide to an inoperative position.

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**2,648,172**
**GRINDING MACHINE**
**Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**
**Application April 11, 1952, Serial No. 281,731**
**2 Claims. (Cl. 51—5)**



1. In a grinding machine having a transversely movable wheel slide, a rotatable wheel spindle thereon, a grinding wheel on said spindle, means including an electric motor on said slide to rotate said spindle, a rheostat on said slide operatively connected to control the speed of said motor, a gear reducer unit on said slide operatively connected to actuate said rheostat, a truing apparatus on said slide including a longitudinally movable slide movable parallel with the axis of said wheel spindle, a transversely movable carrier on said latter slide, a truing tool carrier thereon, a manually operable nut and screw feed mechanism interposed between the truing apparatus slide and the carrier for feeding the truing tool toward and from the grinding wheel, and operative connections including a flexible shaft, one end of which is operatively connected to said feeding mechanism and the other end of which is operatively connected to said gear reducer unit whereby actuation of the feeding mechanism automatically actuates said rheostat to adjust the speed of said motor so as to maintain a constant peripheral speed of the grinding wheel as it wears away.

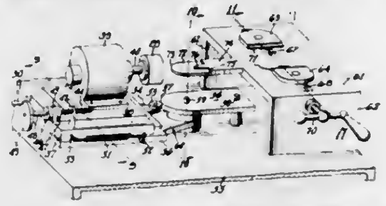
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**2,648,173**
**APPARATUS FOR FINISHING HARDENED SURFACES ON FRAMES FOR POWER SAWS**
**Raleigh S. Carroll, Portland, Oreg., assignor to William Flett, Portland, Oreg.**
**Application March 7, 1952, Serial No. 275,353**
**3 Claims. (Cl. 51—55)**

2. An apparatus for finishing hardened surfaces on frames for power saws comprising a base, means for holding a power saw frame over said base, a lower templet conforming to the curvature of the finished end of the saw frame and



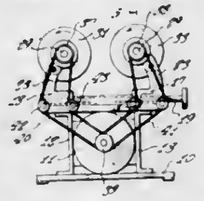
concentric therewith, a swing arm resting on said base and pivotally held along the axis of said lower templet, a grinder slidably mounted



on said swing arm, an upper templet having spaced countersunk holes therein, and a roller disposed between said grinder and the rounded end of said lower templet.

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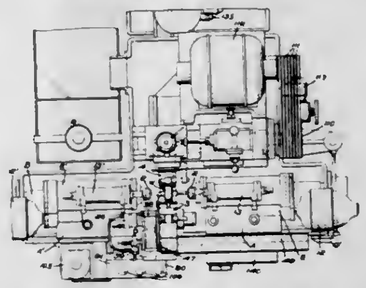
**2,648,174**
**SHARPENING AND POLISHING MACHINE**
**Fred Bikles, New York, N. Y.**
**Application March 28, 1950, Serial No. 152,325**
**1 Claim. (Cl. 51—80)**



A sharpening machine for blades comprising a base support, a frame, a frame pedestal piece mounted on said support for supporting said frame, said frame having parallel guide projections disposed respectively at the opposite sides thereof, brackets extending between the guide projections and slidable thereon, an adjusting screw having opposite threads engaging with the respective brackets to adjust the same toward and away from one another, each of said brackets having upstanding portions at the opposite ends thereof, bearing attachments releasably connected to the upstanding projections, said upstanding projections on the adjustable brackets being curved upwardly and inwardly and having a reduced projection, said bearing attachments respectively having a curved socket portion adapted to fit respectively the curved projections of the upstanding portions of the brackets, a shaft journalled between the bearing attachments and having grinding wheels fixed thereon, spacing elements separating the grinding wheels, an electric motor disposed under the frame and resting upon said base support, a double pulley driven by said motor, single pulley means carried by each of said shafts, endless belts extending between the double pulley of the electric motor and the pulley of each shaft to rotate said shafts, idler pulleys carried by said frame, one of said idler pulleys engaging each flight of each endless belt constantly to tension each belt to effect a continuous driving connection between the motor and each belt regardless of the relative position of said shafts with respect to each other, the grinding wheels of the respective shafts being so spaced that they overlap one another and operate simultaneously on the respective opposite sides of a blade when said shafts are adjusted toward each other.



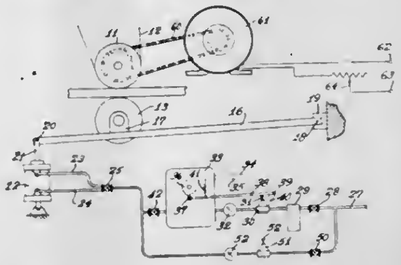
**2,648,175**
**CONTROL MEANS FOR AUTOMATIC GRINDING MACHINES**
**Warren F. Fraser, Westboro, Mass.; Ella M. Fraser, administratrix of said Warren F. Fraser, deceased**
**Original application December 28, 1946, Serial No. 719,072, now Patent No. 2,517,193, dated August 1, 1950. Divided and this application February 28, 1950, Serial No. 146,761**
**8 Claims. (Cl. 51—108)**



7. In a machine for grinding rotary pieces of work, the combination of a grinding wheel, turret means for supporting work pieces in position to be engaged by the grinding wheel, head and tail stocks operative to grip opposite ends of a piece of work carried by the turret and revolving the piece of work about its axis while said wheel acts on the peripheral surface of the work piece, control means including independent electric motors connected with the respective head and tail stocks to drive them, said motors being of the direct current type, and current supplying means for said motors adjustable to vary the relative speeds of the motors so that they can be synchronized by the operator.

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**2,648,176**
**APPARATUS FOR POLISHING**
**Adam Zimmerman, St. Clair Shores, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan**
**Application March 27, 1951, Serial No. 217,782**
**4 Claims. (Cl. 51—135)**



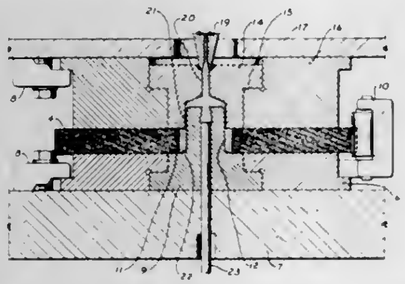
1. A polishing apparatus including a movable endless abrasive member, a rotatable backing roll in juxtaposition to said member, the member and backing roll being arranged to receive a workpiece therebetween, means adjustably supporting said backing roll, and means cooperating with said adjustable supporting means to increase the pressure of said backing roll against said workpiece as the polishing operation progresses.

2,648,177

## ABRASIVE WHEEL AND BUSHING THEREFOR AND METHOD OF MAKING SAME

Robert D. Mitchell, Raymond F. Pahl, and Harman M. Hunter, Niagara Falls, N. Y., assignors to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application March 24, 1951, Serial No. 217,342
10 Claims. (Cl. 51—168)



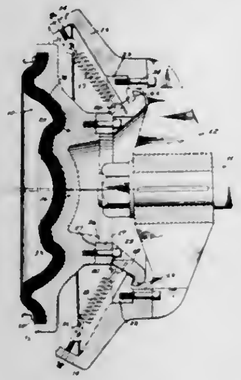
1. An abrasive wheel comprising a bonded abrasive body having a centrally located arbor hole, and a bushing within said arbor hole, said bushing being composed essentially of an organic resinous material closely conforming to the granular configurations of the arbor hole of said wheel, and said bushing having been injection-molded in situ.

2,648,178

## SURFACE-TREATING WHEEL

George Albert Lyon, Detroit, Mich.

Application October 14, 1950, Serial No. 190,149
7 Claims. (Cl. 51—195)



1. In a surface-treating machine, a driven member, a surface-treating head and spring means floatingly suspending said head on said member and establishing a driving connection therebetween, said spring means constituting the sole connection between said head and member and being yieldable upon misalignment axially of said head with respect to said member when work is pressed against said head in a surface-treating operation, said head having a shouldered portion telescoping said member and said member having an abutment overlapping radially inwardly said shouldered portion for preventing relative displacement of said head axially outward with respect to said member.

2,648,179

## METHOD FOR THE PRODUCTION OF HIGH PRECISION GLASS STOPCOCKS

Milton Manes, Lawrence J. E. Hofer, and Robert D. Hinkel, Pittsburgh, Pa.

Application January 10, 1952, Serial No. 265,911
2 Claims. (Cl. 51—283)
(Granted under Title 35, U. S. Code (1952), sec. 266)



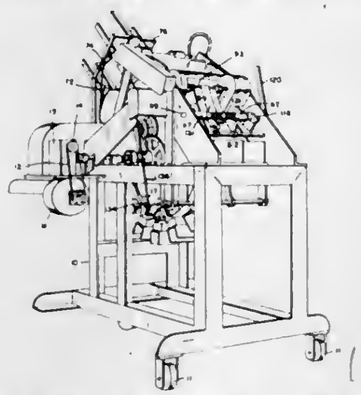
1. A method for the manufacture of high precision glass stopcocks having complementary barrel and plug members comprising the steps, in order, of forming the barrel and plug members thereof with unbroken mating surfaces, fusing side arms to the outer surfaces of said barrel without breaking the inner mating surfaces thereof, separately grinding the mating surfaces of said barrel and plug members while said mating surfaces are still unbroken, and then forming the necessary ports in said barrel and plug members respectively.

2,648,180

## WRAPPING MACHINE

Thomas B. Dalton, Montague, Mich., assignor, by mesne assignments, to Valley Research Corporation, Montague, Mich., a corporation of Michigan

Application May 27, 1948, Serial No. 29,435
5 Claims. (Cl. 53—32)



1. In a machine for wrapping butter, frozen food or other preformed products, a movable carrier having a plurality of U-shaped members for carrying the preformed products partially enfolded in a prefabricated sheet of wrapping material, opposite edge portions of said material projecting outwardly of the carrier member and the preformed product carried thereby, means for indexing said carrier, and a material folding device positioned to cooperatively coact with said machine operation and comprising a one-piece, C-shaped oscillating finger driven by said machine and movable generally in the same direction as the direction of travel of said carrier member during half its stroke, said finger during said half being moved to initially engage the rear flap of said wrapping paper when said carrier member is substantially at rest and to fold said flap over said product, said finger subsequently further advanced during said half its stroke as said carrier member is moved to retain said folded flap in position, a heater assembly fixedly mounted on said machine and located so that said carrier operates to move said U-shaped members under same, said other flap of said wrapping material being engaged by said heaters and folded over said other folded flap to be heat-sealed thereto under pressure as said enveloped product passes under said heater assembly.

3. In a machine for packaging preformed food parcels of butter, frozen foods or other preformed products, comprising mechanism for conveying said preformed products through said machine to package same, a source of power, and means for drivingly connecting said machine with said source of power, said driving means comprising a driving member connected with and driven at all times from said source of power, a driven member, means drivingly connecting said driven member to the various instrumentalities of said machine to be driven, and normally disengaged clutch means for connecting said driving and driven members said clutch means including a notch in said driving member, a pawl pivotally mounted on said driven member and biased to enter said notch, a cam biased to operative position for engaging said pawl to disengage it from said notch, said cam being movable to an inoperative position, a conveyor belt for feeding said preformed products to said machine to be packaged thereby, and a tripping device actuated by the friction between at least one of said products and said conveyor belt for actuating said cam to said inoperative position to retain said driving and driven members in driving relation as long as said preformed products are fed to said machine and to release the clutch by permitting said cam to move to operative position when no such products are being fed to the machine.

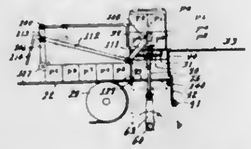


2,648,181

## STACKER MECHANISM

Thomas B. Dalton, Montague, Mich., assignor, by mesne assignments, to Valley Research Corporation, Montague, Mich., a corporation of Michigan

Application March 21, 1950, Serial No. 150,867
14 Claims. (Cl. 53—34)



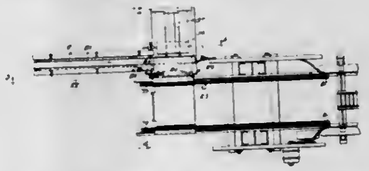
1. In a stacker of the character described, a frame, a supporting plate and an outlet platform mounted thereon, an intake conveyor supported on said frame to deliver units of a product to said supporting plate, an elevator for engaging a unit delivered from said supporting plate and elevating the same, latch plates mounted on said frame above said supporting plate and receiving and supporting the unit elevated by said elevator, said elevator delivering an additional unit to said latch plates beneath the first unit, a pusher for engaging the two units and moving them off said latch plates and on to said outlet platform, an arm on which said pusher is mounted, said arm being pivoted, an elevator crank shaft and link mechanism for reciprocating said elevator, a pusher crank shaft and link mechanism for reciprocating said pusher, said crank shafts being geared together at a two-to-one ratio, and means for pivoting said arm and thereby elevating said pusher over the first unit supported by said latch plates during the return stroke of said pusher.

2,648,182

## CASE LOADER AND SEALER

John L. Ferguson and Richard C. Talbot, Joliet, Ill., assignors to J. L. Ferguson Company, Joliet, Ill., a corporation of Illinois

Application February 3, 1948, Serial No. 5,976
19 Claims. (Cl. 53—35)



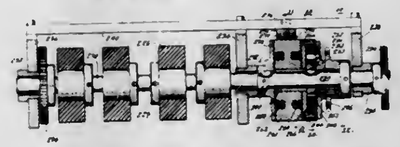
1. In an apparatus as described, means for receiving a case, provided with double flaps and adapted to hold a plurality of rows of packages, in package-receiving position, means for positioning at least one row of packages in said receiving position, each row containing a predetermined number of packages, case sealing mechanism, means for loading said packages into said case row after row, control mechanism actuated by said package-loading means, and conveying means initially controlled by said control mechanism for automatically and continuously moving said case—following the loading of the last of a predetermined number of rows of packages thereinto—through the said mechanism for sealing the side flaps of both sides of said case.

2,648,183

## WRAPPER FEEDING MECHANISM

Thomas B. Dalton, Montague, Mich., assignor, by mesne assignments, to Valley Research Corporation, Montague, Mich., a corporation of Michigan

Application October 17, 1949, Serial No. 121,857
10 Claims. (Cl. 53—155)

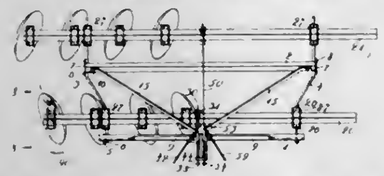


1. In a wrapper feeding mechanism of the character disclosed, a feed roller shaft, a feed roller thereon for engaging a length of wrapper material and propelling the same through a wrapping machine, and means for controlling the feeding of the wrapper comprising a magnetic brake disc secured to said feed roller shaft, a clutch disc rotatable around said feed roller shaft, a driven element geared to said feed roller shaft and said clutch disc, a magnetic core floatingly mounted on said feed roller shaft between said discs and restrained against rotation, a brake coil on said core for magnetizing it to cause it to attract said brake disc for stopping operation of the feed roller, a feed coil on said core for magnetizing it to cause it to attract said clutch disc for effecting operation of the feed roller, mechanical switching means operated by the wrapping machine for effecting energization of said feed coil for starting rotation of said feed roller each cycle of the operation of the wrapping machine, and photo

sensitive means for effecting energization of said brake coil and de-energization of the feed coil in response to the passage of a light source illuminated index mark on the wrapper material past the photo sensitive means.

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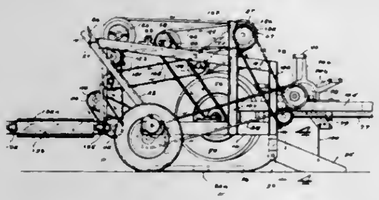
**2,648,184**
**DISK HARROW**
**Joseph E. Cruse, Omaha, Nebr., assignor of one-half to William Payne, Omaha, Nebr.**
**Application October 9, 1951, Serial No. 250,501**
**21 Claims. (Cl. 55—30)**



1. A disk harrow having a frame, a row of ground-working disks individually rotatably mounted on their axes thereon, the axis of each disk being at a horizontal oblique angle to the direction of travel of the harrow, disk mounting means including a supporting member, means pivotally connecting said supporting member to said frame on an axis transverse of said harrow, means carried by and depending from said supporting member on which said disks are each rotatably mounted on their own axes with equal tilt angles to the vertical, and positioning means between said supporting member and said frame for retaining said supporting member in selected positions about the said pivotal axis thereof.

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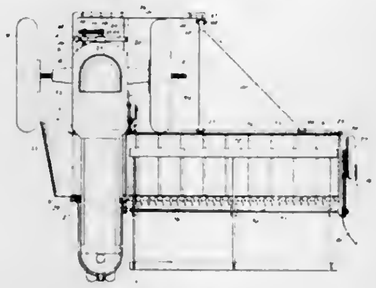
**2,648,185**
**VINE-HANDLING MACHINE**
**Eben D. Dahlman, Grandy, Minn.**
**Application March 25, 1950, Serial No. 151,930**
**7 Claims. (Cl. 55—66)**



1. A machine for gathering and removing potato vines without lifting the potatoes having in combination, a wheel supported frame adapted to be moved along the ground, a pair of vine-engaging members spaced substantially equal distances from the longitudinal center line of said frame, supported from said frame, extending forwardly and downwardly and adapted to engage the ground at their forward portions, said members having rearwardly converging edges which are spaced a small distance apart at the rear ends thereof, a second pair of vine moving members spaced substantially equal distances from said center line and movable in contact with the ground in the rear of said first mentioned members respectively, a pair of rotatable wheels above said last mentioned members spaced substantially equal distances from said center line and having their central planes diverging upwardly, said wheels having side surfaces adjacent their peripheries which are in close proximity at the lower portions thereof, means for positively rotating said wheels whereby the potato vines are engaged, lifted and moved toward said center line by said first mentioned members and are then engaged by said second pair of members and moved farther toward said center line and are then gripped by said surfaces of wheels and moved upwardly from said second mentioned pair of members.

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**2,648,186**
**TRACTOR-MOUNTED WINDROWER**
**Anthony J. Beranek and Alvill F. Collmann, Coggon, Iowa**
**Application March 27, 1951, Serial No. 217,828**
**3 Claims. (Cl. 56—23)**

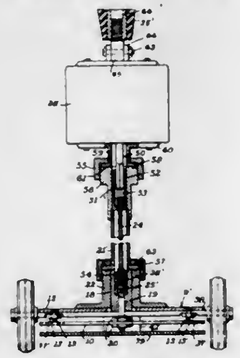


1. In combination with a tractor having a frame, steerable front wheels supporting the front end of said frame, rear drive wheels supporting the rear end of said frame, and a power take-off connection at the rear end of the tractor, a cutting and windrowing implement comprising a frame of elongated rectangular shape having a front longitudinal side and a rear longitudinal side, a sickle bar extending along the front side of the implement frame and terminating short of one end of the latter, rollers extending transversely of said frame one at each end thereof and journaled at their ends on said frame, an endless conveyor belt trained over said rollers and extending longitudinally of said frame, said one end of said implement frame being disposed below said tractor frame between the front and rear wheels of the tractor, bails secured at their open ends to said implement frame and disposed transversely thereof one at said one end of the implement frame and the other spaced along said implement frame from said one end a distance such that said bails extend upwardly from said implement frame at respectively opposite sides of said tractor frame, a U-shaped yoke pivotally secured at its mid-length location to the front end of said tractor and having its legs extending rearwardly of the tractor at respectively opposite sides of the latter, said legs being pivotally connected at their rear ends one to each of said bails at the upper ends of the front legs of the bails, said yoke and said bails providing a traction connection between the tractor and the implement, a bell crank lever pivotally mounted on said tractor frame and connected at one end to one of said bails, a hand lever pivotally mounted on said tractor frame and connected to the other end of said bell crank lever for raising and lowering said sickle bar, a ground wheel journaled on said implement frame at the other end of the frame and disposed adjacent the rear side of the frame, a ground-engaging caster wheel secured to said implement frame at the rear side of the frame and adjacent the side of the tractor from which the implement extends, reel supporting standards secured to said implement frame and projecting upwardly therefrom one at each end of said sickle bar, a reel journaled at its ends in said standards at the upper ends of the latter, means drivingly connecting said ground wheel to said reel, a cutter blade disposed in said sickle bar, pitman means connecting the front end of the roller at said one end of said implement frame to the adjacent end of said cutter bar for imparting reciprocatory movement to the cutter bar upon rotation of said roller, means drivingly connecting said tractor power take-off connection to the rear end of said roller for driving said conveyor belt and said cutter bar from said tractor power take-off connection, a bar connected to the rear end of said tractor frame and extending transversely of the latter to a location rearwardly of said implement, and a brace structure pivotally connected between said bar and the rear side of said implement frame to maintain the longitudinal center line of said implement frame substantially perpendicular to the longitudinal center line of said tractor frame.

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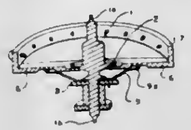
**2,648.187**
**ROTARY GRASS AND WEED TRIMMER**
**George J. Ries, Hinsdale, Ill.**
**Application April 11, 1950, Serial No. 155,330**
**5 Claims. (Cl. 56—25.4)**



3. Apparatus for trimming upstanding material such as grass, weeds, hedges and the like comprising a housing, a cutter blade rotatably mounted in said housing, an elongated tubular handle member, a drive shaft extending through said handle member, a motor enclosed within a housing, a first coupling device including a coupling member on the motor housing and a complementary coupling member at the upper end of said handle member connecting the said motor housing to the upper end of said handle member and the motor shaft to the upper end of said drive shaft, and a second coupling device including a coupling member on the blade housing and a complementary coupling member at the lower end of said handle member connecting the lower end of said handle member to said blade housing and the lower end of said drive shaft to said cutter blade, said first and second coupling devices being structurally alike whereby to enable the coupling member on said motor housing to also be connected directly onto the coupling member of said blade housing and with the motor shaft coupled to the cutter blade with said handle member and drive shaft removed.

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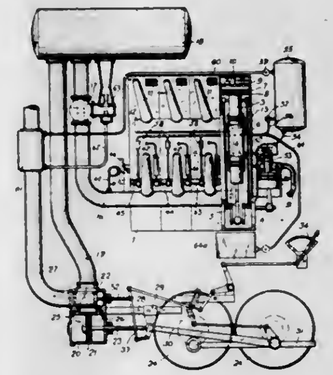
**2,648,188**
**WATCH BALANCE AND STAFF**
**Leo W. Muffley, Palmyra, Mo., assignor of one-third to Chester L. Davis, Perry, Mo.**
**Application May 19, 1949, Serial No. 94,104**
**3 Claims. (Cl. 58—107)**



3. A balance wheel and staff assembly comprising in combination a staff, a balance wheel having an arm, said arm having grooves on the under side thereof disposed on opposite sides of the axis of said staff and of lesser width than the width of said arm, said staff having a shoulder, said arm having a central opening for freely receiving said staff and of lesser diameter than said shoulder, a spring having a central portion secured to said staff, said spring having upturned ends bearing in and seated in said grooves and normally forcing said arm against the shoulder on said staff.

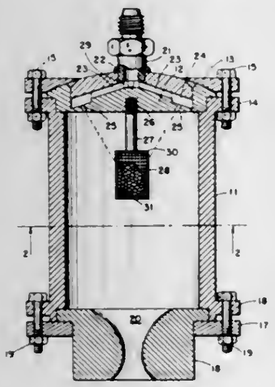
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**2,648,189**
**INTERNAL-COMBUSTION ENGINE AND PNEUMATIC TRANSMISSION DRIVE**
**Johan Erik Johansson, Goteborg, Sweden, assignor to Aktieboiaget Gotaverken, Goteborg, Sweden, a corporation of Sweden**
**Application March 31, 1949, Serial No. 84,568**
**In Sweden April 6, 1948**
**6 Claims. (Cl. 60—15)**



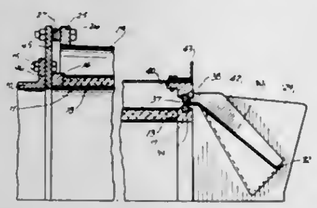
1. In a power plant for vehicles, an engine driving the vehicle, a pressure gas producer, a receiver, a first gas conduit for supplying gas under pressure from said producer to said receiver, a second gas conduit for supplying gas under pressure from said receiver to said engine, a storage vessel for a fluid under pressure, a pressure fluid conduit for supplying fluid under pressure from said storage vessel to said receiver, an injector in said pressure fluid conduit, a third gas conduit communicating with said first gas conduit and said injector, and valve means for alternately connecting said first gas conduit with said receiver and said injector.

2,648,190
**INITIATION OF PROPELLANT DECOMPOSITION**
**Herman Maisner, Los Angeles, Calif., assignor, by mesne assignments, to Aerojet-General Corporation, Cincinnati, Ohio, a corporation of Ohio**
Application March 5, 1948, Serial No. 13,106
3 Claims. (Cl. 60—35.4)



1. The method of initiating the decomposition of a liquid nitroparaffin which comprises spraying the liquid nitroparaffin on the surface of solid lithium aluminum tetrahydride.

2,648,191
**HEAT POWER REACTOR**
**Joseph Featonby, Ottawa, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a body corporate of Canada**
Application August 20, 1951, Serial No. 242,680
5 Claims. (Cl. 60—35.6)



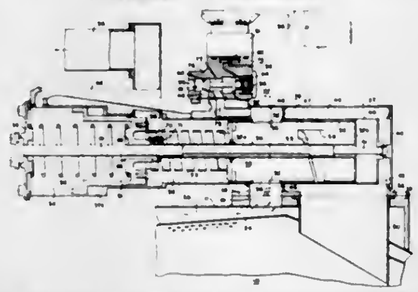
1. Means for varying the effective outlet area of the exhaust duct of a reactor comprising an outer member surrounding the exhaust duct and spaced therefrom so as to be substantially less affected by the hot gases passing through the exhaust duct than the duct itself, and a plurality of flaps extending rearwardly of said exhaust duct, the forward ends of said flaps being mounted between said exhaust duct and said outer member, the means for mounting the forward ends of at least two of said flaps comprising a pivotal connection between the flap and the outer member and a second pivotal connection between the flap and the exhaust duct, whereby differential expansion and contraction of the outer member and exhaust duct will cause rotation of the rearwardly extending flaps about their forward ends thereby varying the effective outlet area of the exhaust duct.

2,648,192
**VARIABLE CAPACITY JET EXHAUST AUGMENTER**
**John G. Lee, Farmington, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
Application September 27, 1949, Serial No. 117,958
6 Claims. (Cl. 60—35.6)



1. In a jet propulsion unit for an aircraft, an exhaust nozzle for discharging a propulsive jet stream from said unit, a variable capacity ejector mechanism for withdrawing air from without said unit into said stream, and means for mixing said air and said stream including a plurality of lift producing airfoil shaped surfaces peripherally spaced around the wall of said ejector mechanism and terminating in tips adjacent the line of convergence of said air and jet stream, adjacent surfaces being oppositely inclined relative to the axis of flow whereby adjacent counterrotating trailing vortices are produced from the tips thereof.

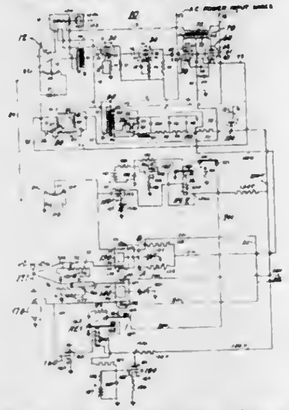
2,648,193
**ANTI-ICING APPARATUS HAVING MEANS TO CONTROL TEMPERATURE AND PRESSURE OF THE HEATING GASES**
**Arnold H. Redding, Wallingford, Irvin R. Whiteman, Philadelphia, and William F. Thompson, Jr., Wallingford, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
Application April 10, 1951, Serial No. 220,274
7 Claims. (Cl. 60—39.09)



5. De-icing apparatus for a gas turbine power plant having an air intake portion, comprising a de-icing system for circulating heating fluid through said intake portion, cooling air and hot gas supply passages formed in said power plant, a casing having passages connected to said system and to said air and gas supply passages, a thermostatic element in said casing responsive to temperature changes in gas in said hot gas supply passage, a spring, a fluid pressure-responsive piston element in said casing interposed between and subject to opposing pressures of said spring and fluid supplied to said system, and de-icing control valve means comprising a hollow cylindrical slide valve element interposed in said casing between said supply passages and said system and operatively connected to said thermostatic and piston elements, said valve element being responsive to joint operation of said thermostatic and pressure-responsive elements for controlling supply to said system of an air and gas mixture of limited pressure and temperature irrespective of changing power plant pressure and temperature under varying operating conditions.

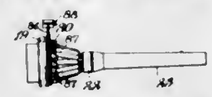


2,648,194
**JET ENGINE FUEL CONTROLLER**
**Clarence H. Jorgensen, Willard T. Nickel, Howard H. Dietrich, and Donald P. Worden, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
Application February 9, 1949, Serial No. 76,162
21 Claims. (Cl. 60—39.28)



1. Apparatus for controlling a jet engine having burners and comprising a valve controlling fuel flow to the burners, a reversible motor for operating the valve, a motor control device for controlling direction and extent of movement of the motor, said device including an element movable in one direction to cause the motor to open the valve and in the opposite direction to close the valve, a power controlling member, means responsive to movement of the control member from a set position to cause said element to cause operation of the motor to effect a change in engine operating condition, means sensitive to the engine operating condition, and means operated by the sensing means for causing cessation of motor operation when the change in engine operating condition determined by the control member has been effected.

2,648,195
**CENTRIFUGAL COMPRESSOR FOR SUPERCHARGING INTERNAL-COMBUSTION ENGINES**
**Geoffrey Light Wilde, Coxbench, and Francis James Allen, Quarndon, England, assignors to Rolls-Royce Limited, Derby, England, a British company**
Application February 6, 1947, Serial No. 726,940
In Great Britain December 28, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 28, 1965
9 Claims. (Cl. 60—39.29)



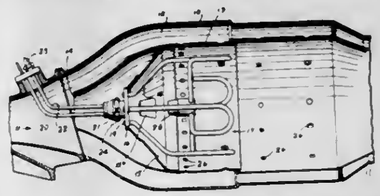
1. The combination with an engine of a two-stage centrifugal compressor having a compressor shaft, two rotors connected with said shaft to be driven thereby at a constant ratio of speeds, and diffuser vanes for each stage whereof the diffuser vanes of one stage only are adjustable to vary the effective throat area of said vanes of said one stage and the diffuser vanes of the other stage are fixed, and speed-sensitive automatic means to adjust said adjustable diffuser vanes.

2,648,196
**RAM JET BURNER WITH AQUEOUS INJECTION TO PROMOTE SMOOTH BURNING**
**James W. Mullen II and John B. Fenn, Richmond, Va., assignors to Experiment Incorporated, Richmond, Va., a corporation of Virginia**
Application March 18, 1947, Serial No. 735,452
4 Claims. (Cl. 60—39.55)



1. In a ram-jet, an air inlet, a diffuser communicating with said inlet, a combustion chamber communicating with said diffuser, a flame holder within said combustion chamber, a first fluid tank and injector means connected thereto, said injector means being located upstream from said flame holder, pressurizing means for said tank to assure injection of fuel therefrom, a second fluid tank and injector means connected thereto, said second-mentioned injector means including circumferentially extending means extending around the inner wall of said combustion chamber for circumferentially continuously laying an aqueous film on said inner wall at a location upstream from the expected locus of flame-contact with said wall, and pressurizing means for said second fluid tank to assure injection of fluid from said second tank into said combustion chamber, whereby said second-mentioned injector means may be effective to apply fluid from said second tank upon the wall of said combustion chamber at a point upstream from the expected locus of contact of a flame front on said wall.

2,648,197
**VAPORIZER TUBE SYSTEM**
**Francis Henry Keast, Toronto, Ontario, and Frederick Denison Morgan Williams, Weston, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation**
Application January 6, 1951, Serial No. 204,732
11 Claims. (Cl. 60—39.71)



1. A vapourizer system for a combustion chamber into which liquid fuel is introduced and burned as a vapour in an air stream flowing in the combustion chamber comprising, a plurality of vapourizer tubes each having an inlet at one end and being secured within the combustion chamber with the inlet facing the air stream, and

a nozzle having an outlet facing upstream, the tubes having terminal portions converging substantially transversely of the air stream into the nozzle and having intermediate portions adjoining the terminal portions, the senses toward the terminal portions of the longitudinal axes of the intermediate portions each having a component directed upstream.

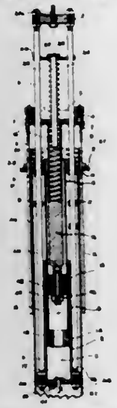
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2,648,198

## MEANS FOR AUTOMATICALLY VARYING THE STROKE OF PUMP RODS OR LIKE RECIPROCATING MEMBERS

Ernest Francis Naismith McGauchie, Bentleigh, Victoria, Australia

Application July 25, 1951, Serial No. 238,557
In Australia August 24, 1950
12 Claims. (Cl. 60—54.5)



1. Improved means for automatically varying the stroke of the driven section of a pump rod or like reciprocating member having driving and driven sections, comprising major and minor cylinders telescopically arranged in relation to each other in a substantially vertical attitude, a stationary support, means for securing the minor cylinder to said stationary support, a piston stationarily mounted at the lower end of said minor cylinder, said piston having an aperture extending longitudinally therethrough, said major cylinder being a close sliding fit around said piston, means connecting the major cylinder to said driving section of the rod so that the major cylinder will reciprocate with the latter, the lower end of said major cylinder being closed with the exception of an aperture in its base, a valve device mounted in said aperture, a casing encompassing the lower portion of said major cylinder for containing a body of fluid, the lower end of said major cylinder being at all times immersed in said fluid, a piston reciprocable within the minor cylinder, and means for operatively connecting said piston to the driven section of the pump rod.

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2,648,199

## PIPE COUPLING DEVICE FOR PNEUMATIC SYSTEMS

Samuel W. Alderson, New York, N. Y.

Application January 11, 1952, Serial No. 266,030
7 Claims. (Cl. 60—62.5)

1. A coupling for a pneumatic system comprising a first and a second hose terminal member, said first member being in the form of a piston having a plurality of piston ring grooves cut in the sides of the body thereof, an elastic torus placed in one of said grooves, said second member being in the form of a coacting cylinder and



means to secure said terminals together when said first member is completely inserted in said second member.

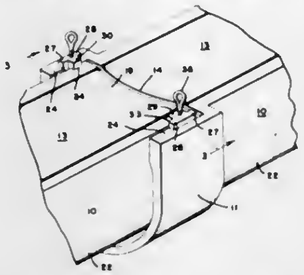
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2,648,200

## LOCK JOINT CRADLE INVERT UNDERDRAIN PIPE

Daniel B. Dimick, Wellesley, Mass.

Application October 10, 1951, Serial No. 250,747
9 Claims. (Cl. 61—10)



1. In a subdrainage pipe composed of a number of pipe sections, each section comprising a substantially semi-cylindrical bottom wall and a top wall having a semi-cylindrical open top bell end and a spigot end, spacing pads provided on the bell ends against which the spigot ends axially engage and whereby a predetermined spacing is maintained between the spigot and bell ends to form drainage openings, means provided internally on the bells to space the spigot ends radially from the bells and locate the sections in alignment, locking lugs provided on the bells adjacent the upper ends thereof, and means engageable with said lugs for locking the spigot ends of the sections on the bells of adjoining sections.

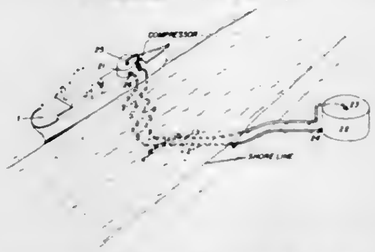
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2,648,201

## OFFSHORE SHIP UNLOADING FACILITIES FOR HIGH-PRESSURE FLUIDS

Frank G. Marancik, Union, and John A. Laudenberger, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 2, 1949, Serial No. 113,868
4 Claims. (Cl. 62—1)



1. Apparatus for the offshore loading and unloading of a high pressure fluid product consisting of swivel-connected sections of pipe extending between a fluid discharge from the ship's tank to the termination of a fixed submarine line, said submarine line extending to shore tankage facilitities forming a liquid leg of the system, a return submarine line extending from a vapor outlet from said shore tankage facilities to a point adjacent the termination of the first submarine line and swivel connected sections of piping connecting the said second submarine line to the vapor space of the said ship's tank forming a vapor leg of the system, and a compressor positioned in the vapor leg of the system, said swivel-connected sections of piping being adapted for disengagement and lowering to the bottom of a bed of water when not in use.



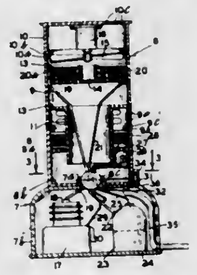
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2,648,202

## HUMIDITY REGULATING APPARATUS

Cyril J. Otterholm, Minneapolis, Minn., assignor to Walter Haertel Company, Minneapolis, Minn., a corporation of Minnesota

Application January 20, 1951, Serial No. 207,000
12 Claims. (Cl. 62—4)



1. A dehumidifier assembly for use in conjunction with a refrigerant compressor, a condenser and a receiver having valve mechanism associated therewith for controlling the flow of refrigerant through the outlet thereof, the compressor and the receiver and the condenser each having an inlet and an outlet the outlets of the compressor and the condenser being connected with the inlets of the condenser and the receiver respectively, said assembly including an evaporator having an inlet and an outlet adapted to be connected for fluid flow with the outlet of the receiver and the inlet of the compressor respectively, means for moving air across the surfaces of said evaporator for heat-exchange purposes and through the assembly, housing structure surrounding said evaporator constructed to cause at all times at least part of the air moved through the assembly to be moved over a path other than across said evaporator, and thermostatic control mechanism sensitive to outside air temperature for controlling the volume of air moved over the heat-exchange surfaces of said evaporator to thereby increase the over-all efficiency of the unit.

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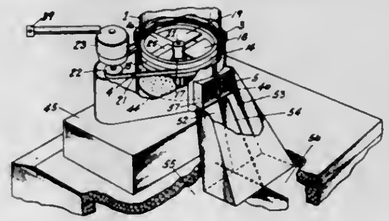
2,648,203

## MACHINE FOR PRODUCING ICE CUBES AND CRUSHED ICE

Henry V. Heuser and William H. Fitzner, Louisville, Ky., assignors to Henry Vogt Machine Company, Louisville, Ky., a corporation of Kentucky

Application August 3, 1950, Serial No. 177,388
17 Claims. (Cl. 62—106)

1. In a machine for producing congealed liquid selectively in the form of cubes or fragments comprising at least one tube alternately subject to a low temperature to congeal liquid therein in the form of a rod, and to thawing temperature to release the rod formed in the tube: a severing device below said tube carrying a cutting member and a plurality of fragmentizing members at different levels; gauge means for retaining the rod with the end protruding from the tube to be acted on by the severing member; and means for selectively bringing the cutter member and fragmentizing members into engagement with the exposed end of the rod to sever the gauged length



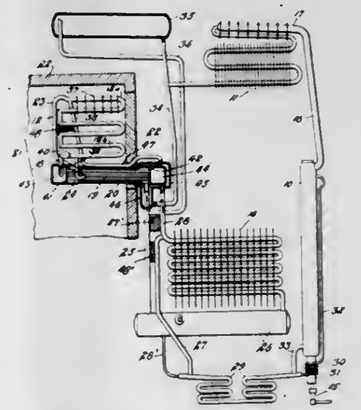
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2,648,204

## ABSORPTION REFRIGERATION SYSTEM

Gunnar Axel Grubb, Bromma, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden

Application June 24, 1949, Serial No. 101,005
In Sweden June 28, 1948
6 Claims. (Cl. 62—119.5)



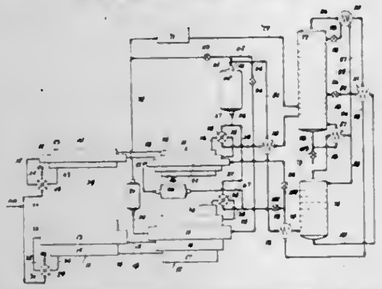
1. A refrigerator having a thermally insulated space, a refrigeration system including a condenser, an evaporator arranged to abstract heat from said space and in which refrigerant evaporates in the presence of inert gas, conduit means for conducting liquid refrigerant from said condenser to said evaporator, first means providing a first path of flow for gas flowing to said evaporator, second means providing a second path of flow for gas flowing from said evaporator, at least a part of said first means being disposed within said second means to form a heat exchanger, a part of said heat exchanger being disposed outside said space, and structure forming an enclosure about the part of said heat exchanger outside said space, said enclosure forming a part of said conduit means for conducting liquid refrigerant from said condenser to said evaporator.

2,648,205

## RECTIFICATION OF MIXED GASES

John A. Hufnagel, Mineola, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application March 30, 1948, Serial No. 17,998
13 Claims. (Cl. 62—123)



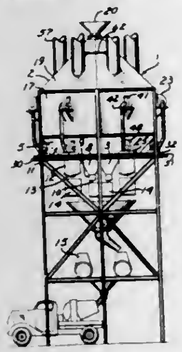
1. An improvement in the process of producing oxygen by the liquefaction and rectification of air involving flow of air under pressure through a reversing exchanger in indirect heat exchange relation with a rectification product, periodically reversing the flow of air and rectification product through their respective paths of flow in said reversing exchanger, passing a portion of the thus cooled air through at least the cold end of said reversing exchanger to warm said air and produce temperature conditions within said reversing exchanger to facilitate purging thereof by the rectification product passing therethrough, and expanding the warmed air to produce refrigeration in amount adequate to compensate for enthalpy loss and heat leaks into the system, which improvement comprises passing the warmed air flowing from said reversing exchanger through a unidirectional path of flow containing a substantially isothermal mass of high heat conducting material to minimize fluctuations in the temperature of said warmed air prior to expanding same.

2,648,206

## METHOD AND APPARATUS FOR COOLING AGGREGATES

Clifford H. Carr, Kansas City, Mo., assignor of one-half to Van J. Sparks, Kansas City, Mo.

Application March 11, 1950, Serial No. 149,111
16 Claims. (Cl. 62—168)



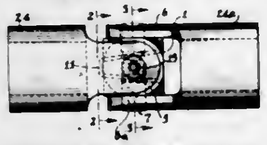
1. The method of conditioning a large volume of material consisting of individual particles moving downwardly through a confined area by altering the temperature thereof, including applying chilled water to the material to thoroughly permeate same and intermingle in direct contact with the individual particles, draining excess water from the material, and delivering air to the wet material for movement therethrough countercurrent to the application of the water, said air being in sufficient volume to substantially evaporate the water remaining in the material and cool the particles in the volume of material whereby the temperature and moisture content of the material leaving the confined area are substantially uniform.

2,648,207

## UNIVERSAL JOINT

Aloysius J. Quinn, North Bergen, N. J., assignor to Brooks Equipment Corporation, a corporation of New York

Application December 24, 1947, Serial No. 793,608
2 Claims. (Cl. 64—17)



1. In a universal joint construction, the combination of a center-block member having opposed parallel surfaces provided with bores intersecting each other and being substantially perpendicular to said parallel surfaces, forked members having two pairs of lugs, each pair being disposed at opposed parallel surfaces of said block, a through pivot-pin member of given diameter having rotational bearing connections with one pair of said lugs, passing through one of said intersecting bores and having at its middle portion an end-engaging depressed seat having outwardly tapering walls between the depressed seat portion and the outer peripheral surface of said through pivot-pin, a complemental pair of stub pivot pin members provided with rotational bearing connections with the other pair of lugs, having diameters substantially similar to the diameter of said through pivot-pin and passing through the other intersecting bore, said stub pivot-pin members having end portions projecting into said seat and provided with complemental tapering portions to provide interengaging rotational connections with the walls of said through pivot-pin, each of said stub pivot-pins also having a continuous circumferential groove, said block having a pair of coupling-pin bores, each extending in a direction of a chord to and registering with one of said circumferential grooves, and a pair of cylindrical coupling pins, each extending through one of said pair of coupling-pin bores and passing segmentally through one of said circumferential grooves to connect said stub pin with said block while permitting free rotation thereof about its axis, said coupling pins forming the legs of a U-formation and extending to one of the outer surfaces of said block and being connected together at said outer surface of the block by a portion forming the base of the U formation to provide a resilient clip having a continuous manipulating body part extending parallel with said outer surface and said pins extending before assembly in an outwardly inclined direction from said body part, whereby means is provided for rotatably coupling each of said stub members to the center block to retain the stub pins against longitudinal movement in their bores and for holding said end portions within said seat in the through pivot.

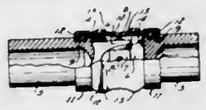


2,648,208

## FLEXIBLE COVER FOR UNIVERSAL JOINTS

George B. Stillwagon, Jr., Dayton, Ohio, assignor of one-half to Kenneth G. Fraser, Dayton, Ohio

Application May 31, 1947, Serial No. 751,526
4 Claims. (Cl. 64—32)



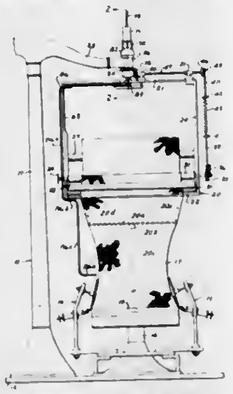
1. In a universal joint, two coupling members connected one with the other for relative movement about intersecting axes, a cover comprising a longitudinally compressible tubular structure of flexible material supported on said coupling members in longitudinal compression, and attaching devices extending about the respective end portions of said tubular structure connecting said end portions with said coupling members and retaining said structure in said longitudinal compression, said structure being weakened along two groups of circumferential narrow grooves adjacent the inner ends of the respective attaching devices, the depth of each groove being substantially equal to one-half the width of each groove, the distance between the grooves of each pair being substantially equal to the width of each groove, and the two groups of grooves being spaced substantial distances one from the other by an unweakened portion of said structure, said weakened portions of said structure being deflected outwardly by said longitudinal compression of said structure.

2,648,209

## AIR CLEANER FOR KNITTING MACHINES

Robert C. Reinhardt and Fred L. Hefner, Newton, N. C., assignors to Clyde Fabrics, Inc., Newton, N. C., a corporation of Delaware

Application September 14, 1951, Serial No. 246,646
4 Claims. (Cl. 66—168)



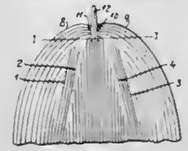
1. An improved air cleaner for circular knitting machines of the type having a rotating needle cylinder and also having circularly spaced groups of needle control elements disposed adjacent the needle cylinder and also having a cloth rack spaced above the needle cylinder and said cloth rack being rotatable with the needle cylinder and wherein the fabric knitted by the needle cylinder is directed upwardly to the cloth rack to be taken up thereby, said knitting machine also having a frame member disposed above the cloth rack and a vertically disposed shaft rotatably mounted in the frame member for supporting the upper portion of the cloth rack for rotation, said shaft having a longitudinally extending passageway therethrough, said shaft having a pipe connected to the upper end thereof, a fixed housing disposed above said pipe and into which the pipe projects, a sealed bearing in said fixed housing through which the upper end of the pipe projects, means for conducting compressed air to the interior of said fixed housing, a pipe connected to the lower end of said shaft and communicating with the passageway in said shaft, said pipe being shaped to conform substantially to the configuration of the cloth rack and extending along the upper edge thereof and then being bent downwardly to extend along one side thereof and then being bent inwardly at its lower end to form a nozzle portion, said nozzle portion being disposed immediately above the upper surfaces of said needle control elements, said nozzle being closed at its free end adjacent the knitted fabric and having a plurality of perforations in the bottom surface thereof whereby compressed air will pass through the passageway in said shaft and thus through the pipe to be emitted from the perforations in said nozzle and whereby said pipe and its nozzle will rotate with the cloth rack to thereby successively direct blasts of compressed air onto the spaced groups of needle control elements for removing lint and foreign matter therefrom.

2,648,210

## STOCKING AND METHOD OF MAKING

Viggo Skole and Hans Christian Andersen, Naerum, near Copenhagen, Denmark

Application August 31, 1949, Serial No. 113,376
In Denmark April 19, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 19, 1963
11 Claims. (Cl. 66—187)



1. In the making of stockings, the steps of terminating a blank toe portion with firm selvages by continued narrowing until only a small number of wales defining practically a point of intersection between said firm selvages are left, and then continuing knitting of said wales through a number of courses great enough to produce a tail of sufficient length to cause such tail to roll up on itself in its transverse direction to form an elongated cord-like structure and to prevent the transfer to the remote end of such cord-like structure of stresses tending to draw out the toe portion in its transverse direction.

2,648,211

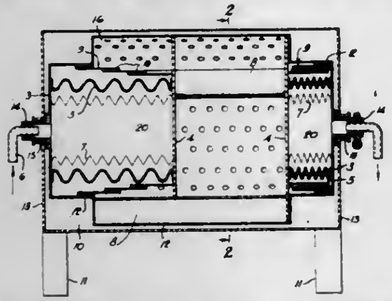
## SQUEEZER EXTRACTOR WASHING MACHINE

Friedrich Eberlein, Stuttgart-Riedenberg, Germany, assignor to Henkel & Cie, G. m. b. H., Dusseldorf-Holthausen, Germany, a limited liability company of Germany

Application June 14, 1950, Serial No. 167,974
In Germany June 17, 1949
1 Claim. (Cl. 68—21)

A washing machine comprising a stationary casing, the casing having end walls, a drum rotat-

ably mounted in the casing, the drum having at least one partition axially movable within the drum, resilient means for maintaining the movable partition adjacent the corresponding end wall of the casing, an elastic bellows surround-



ing the resilient means, and a conduit disposed through the stationary end wall for introducing the fluid pressure into the bellows and intermediate the movable partition and corresponding stationary end wall.

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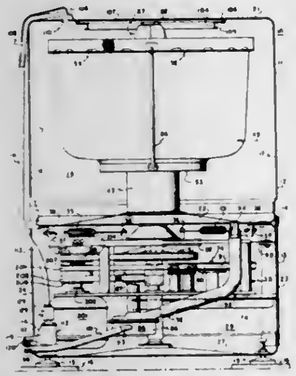
**2,648,212**

## COMBINED WASHING MACHINE AND SPIN TUB WITH ONE-WAY FLUID DRIVE

**John C. Sharp, Glen Ellyn, Ill., assignor to General Electric Company, a corporation of New York**

**Application December 10, 1949, Serial No. 132,287**

**4 Claims. (Cl. 68—23)**



1. In a clothes washing machine including an upstanding casing, an upstanding tub arranged in said casing and mounted for rotation, an upstanding agitator arranged in said tub and mounted for oscillation, a water supply system communicating with said tub, said casing being arranged to catch water centrifuged from said tub incident to rotation thereof, and a drain conduit communicating with said casing; the combination comprising an electric motor provided with a reversible rotor, a fluid drive unit including a casing containing a body of fluid and a drive member and a driven member and means responsive to rotation of said drive member in one direction for coupling said drive member through said fluid to said driven member and responsive to rotation of said drive member in the opposite direction for uncoupling said drive member from said driven member, a first drive connection between said rotor and said drive member, a second drive connection between said driven member and said tub, means for selectively rotating said rotor in either direction in order selectively to effect rotation of said tub, motion translating mechanism including a drive element and a driven element and means responsive to rotation of said drive element in either direction for oscillating said driven element, a third drive connection between said rotor and said drive element, clutch mechanism arranged between and operatively connected to both said driven element and said agitator, and means for selectively operating said clutch mechanism in order selectively to effect oscillation of said agitator.

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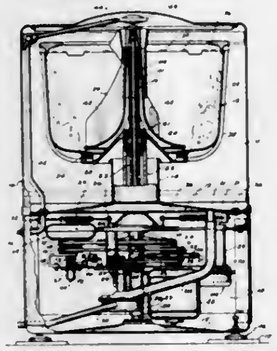
**2,648,213**

## WASHING MACHINE WITH FLUID DRIVE

**George P. Castner, Webster City, Iowa, assignor to Solar Corporation, Milwaukee, Wis., a corporation of Delaware**

**Application April 12, 1947, Serial No. 741,083**

**4 Claims. (Cl. 68—23)**



3. For use in a washing machine, a first member to be oscillated and a transmission device connected thereto and of the type converting rotary motion to oscillating motion, a second member to be rotated, a fluid coupling having cooperating vaned driving and driven elements and means forming a sealed chamber thereabout containing fluid in an amount less than the total capacity of the chamber whereby slippage will accompany the transmission of torque through the coupling, an electric motor and means operatively connecting the same to the driving element, and separate selectively operative means connecting the driven element respectively to the first member through the transmission device and to the second member.

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**2,648,214**

## CAKE HOLDER FOR DYEING APPARATUS

**Michael W. Reno and James E. Dougherty, Philadelphia, Pa.**

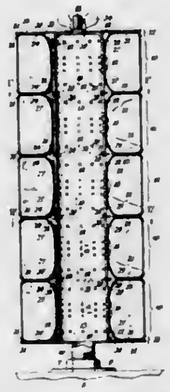
**Application April 15, 1950, Serial No. 156,056**

**7 Claims. (Cl. 68—198)**

1. In a support for a pile of annular yarn packages or the like, an elongate cylindric stem for receiving the packages having pairs of tangential diametral notches spaced by a distance corresponding approximately to the thickness of the yarn packages, and provided at one end with a stop element for the first applied yarn package; and axially-apertured separators adapted to be impaled upon the stem respectively over the successively applied yarn packages, each separator having connected thereto a stem embracing



spring clip capable of yielding laterally incident to impalement of the separator upon the stem, and to snap into a pair of the notches in the



stem upon partial rotation of the separator after it is slid into contact with a previously placed yarn package.

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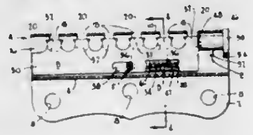
**2,648,215**

## KEY HOLDER

**Atto N. Hanna, Atlantic Highlands, N. J., assignor to A. N. Hanna Co., Inc., Atlantic Highlands, N. J., a corporation of New Jersey**

**Application March 30, 1950, Serial No. 152,969**

**18 Claims. (Cl. 70—456)**



1. A key holder comprising a housing having a passage and a plurality of peripheral slots communicating with said passage, each of said slots having an enlarged portion through which a part of a key carrier is insertable, a retainer slide movable in said passage and carrying a plurality of elements movable into and out of registration with the enlarged portions of said slots so as to block and unblock said enlarged portions, first means active on said slide to tend to hold it in one position in said passage, and second means on said slide to retain it against the action of said first means in another position, said second means being articulately mounted on said slide so as to be movable between an inoperative position disengaged from said housing and an operative position engaged with an edge of said housing.

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**2,648,216**

## KEY RING HOLDER

**Atto N. Hanna, Atlantic Highlands, N. J., assignor to A. N. Hanna Co., Inc., Atlantic Highlands, N. J., a corporation of New Jersey**

**Application May 2, 1950, Serial No. 159,420**

**3 Claims. (Cl. 70—456)**

1. A key ring holder comprising a housing having top and bottom walls defining between themselves a passage with narrow and wide longitudinal portions opening into one another, said housing having a transverse slot with small and enlarged portions, said enlarged portion being in the bottom wall of said wide passage portion, a slide movable longitudinally over the bottom wall of said narrow passage portion between blocking and unblocking positions, a blocking member on said slide movable over the bottom wall of said wide passage portion to a first position registrable with said enlarged slot portion to block the same when said slide is in its blocking position and movable to a second position out of registration with



said enlarged slot portion when said slide is in its unblocking position, and a retaining member on said slide movable therewith in said narrow passage portion and resiliently urged into sliding contact with the upper wall of said narrow passage portion so as to frictionally urge said slide and said blocking member against the bottom walls of the narrow and wide passage portions respectively, thereby holding said slide in a position in which it may be placed.

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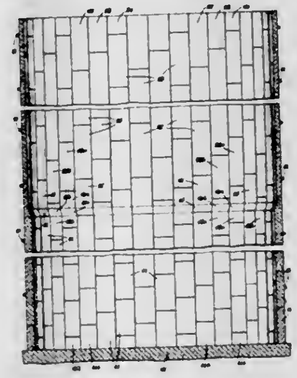
**2,648,217**

## SILO CONSTRUCTION

**Glenn V. Gladville, Massillon, Ohio**

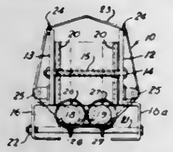
**Application July 13, 1950, Serial No. 173,603**

**6 Claims. (Cl. 72—6)**



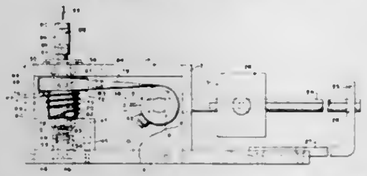
1. A substantially cylindrical wall structure comprising a lower portion formed of vertical courses of relatively thick staves extending to a point spaced considerably above the bottom of the wall, the staves in adjacent vertical courses being staggered relative to each other, an annular row of conversion staves located upon the top of the vertical courses of said relatively thick staves and being staggered relative to each other, each conversion stave having a lower end of the same thickness as said relatively thick staves, an upper straight portion of considerably less thickness and an inclined surface on one side, at least some of the conversion staves having lower straight portions of the same thickness as said relatively thick staves and an upper portion of the structure formed of vertical courses of relatively thin staves located upon the upper ends of the conversion staves, said relatively thin staves being of the same thickness as the upper ends of the conversion staves.

2,648,218
**BUILDING BLOCK LAYING DEVICE**
David Joseph, Hackensack, N. J.
Application August 1, 1950, Serial No. 176,967
4 Claims. (Cl. 72—129)



1. A building block laying device for receiving a plurality of blocks, said device comprising two parallel side members forming a receptacle, a separate outwardly extending channel-shaped support extending from the lower edge of each side member, a pair of spaced bars longitudinally disposed at the bottom of said receptacle and adapted to move outwardly into said channel-shaped supports to clear said side members, whereby blocks contained in said receptacle may be lowered, and means for holding said bars in closely spaced relationship to form a bottom for said receptacle, whereby blocks may be inserted into said receptacle and transported by said device.

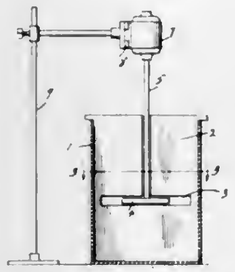
2,648,219
**TORQUE TESTING DEVICE**
Charles B. Emery, River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 7, 1950, Serial No. 154,545
8 Claims. (Cl. 73—1)



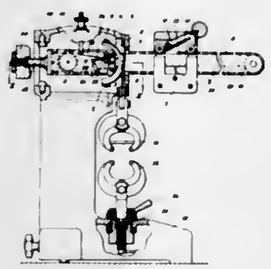
1. A gage for testing output torque of a rotary tool comprising a base, an adjustable balance beam having a weight adjustably carried thereon, means on said base for mounting said balance beam for rocking movement about a substantially horizontal axis, an oscillatable member, a socket member for receiving the rotary tool and effecting a driving connection therewith, means on said base mounting said oscillatable member and said socket member for arcuate movement about a substantially vertical axis, means for effecting a driving connection between the socket member and the oscillatable member, and motion transmitting means interconnecting said oscillatable member and said beam to cause the movement of said beam in response to actuation of said oscillatable member.

2,648,220
**CLEANER TESTING APPARATUS AND METHOD**
Robert H. Tiers, Ambler, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 8, 1950, Serial No. 160,702
3 Claims. (Cl. 73—53)

3. In an apparatus for testing the efficiency of cleaning solutions, a container for said solutions, a test plate adapted to contain soil samples, a shaft adapted to be secured to said test plate and to have a portion thereof together with said test plate immersed in said solution, means for rotating said shaft and test plate and a vertically extending baffle positioned within said container, said baffle lying in the same plane as said shaft and extending along both sides of the portion of said shaft adapted to be immersed in said solution, around said test plate and substantially to the sides and bottom of said container.



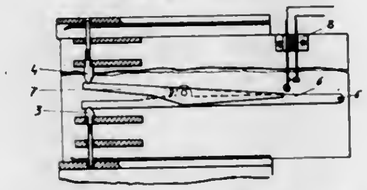
2,648,221
**TENSILE TESTING MACHINE FOR CEMENTING MATERIALS**
Lorenzo Franceschini, Firenze, Italy, assignor to Societa per Azioni Officine Galileo, Firenze, Italy, a corporation of Italy
Application August 18, 1948, Serial No. 44,934
In Italy August 27, 1947
4 Claims. (Cl. 73—95)



1. A testing machine of the class described, comprising: a beam pivoted intermediate its ends to form two arms; means connecting one of said arms to a test specimen; a longitudinally extending graduated scale on the other of said arms and an idler sprocket at the end thereof; a weight movable along said last named arm and having an index for reading the position of said weight along said arm from said graduated scale; a spring driven motor; means for controlling the speed thereof; a sprocket driven by said motor; and a flexible and substantially inextensible chain passing over both of said sprockets and having both of its ends secured to said movable weight to form a closed circuit; and means responsive to a sudden unbalance produced by breakage of said test specimen for stopping further operation of said motor.

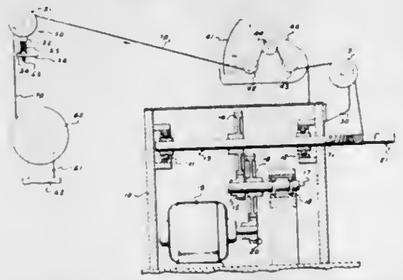


2,648,222
**APPARATUS FOR COLLATING PUNCHED CARDS**
Cornelis Hendricus Stuivenberg, Haarlem, Netherlands
Application August 6, 1947, Serial No. 766,767
In the Netherlands August 27, 1945
Section I, Public Law 690, August 8, 1946
Patent expires August 27, 1965
10 Claims. (Cl. 73—156)



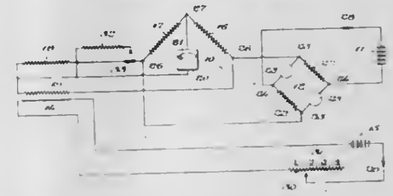
1. An apparatus for collating cards provided with punched holes, comprising in combination, a casing having two card pockets for respectively receiving the cards to be collated, feeler means respectively associated with each of said pockets and operable to extend through the respective pocket at all points corresponding to the punched holes in the card within the respective pocket, the feeler means of one pocket being coordinated with the feeler means of the other pocket so that one feeler means of one pocket forms a pair with the corresponding feeler means of the other pocket, a lever pair for each pair of feeler means, each lever pair comprising a first lever pivotally mounted at one end on a stationary point in the casing and engaged at its other end by the feeler means pertaining only to one of said pockets and to one of said pairs, a second lever engaged at one end by the feeler means pertaining only to the other pocket but to said one pair, said second lever being pivotally connected at an intermediate point to and supported by said first lever, and signalling means positioned to be actuated by the other end of said second lever upon movement of said second lever as brought about by one only of the feeler means of one and the same pair failing to pass through its corresponding pocket while a card is located therein.

2,648,223
**METHOD OF TESTING THE WINDING PROPERTIES OF FILAMENTS**
Melvin Fielding, Chicago, and Otto S. Mundy, Wheaton, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 21, 1950, Serial No. 175,116
3 Claims. (Cl. 73—160)



1. A method of determining the surface lubrication characteristics of wire which includes winding a length of wire around a rotating mandrel while maintaining a predetermined tension thereon, maintaining the guide point at which said wire is directed to the mandrel fixed, and measuring the axial distance of the convolutions of wire formed between the intersection of a line through said guide point normal to the axis of said mandrel and the point at which the convolutions start to double back to start a second layer.

2,648,224
**APPARATUS FOR MEASURING VELOCITY AND TEMPERATURE OF FLUIDS**
Leonard R. Phillips, Teaneck, N. J., and Henry O. Nilsson, Centerport, N. Y., assignors to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application February 10, 1949, Serial No. 75,604
2 Claims. (Cl. 73—204)

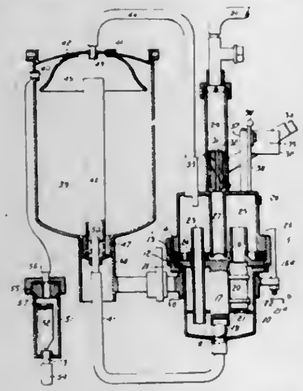


1. An instrument for measuring velocity of flow of a fluid, said instrument comprising a Wheatstone bridge having two arms with zero temperature coefficients of resistance and two other arms with positive temperature coefficients of resistance for simultaneous exposure to a fluid the flow of which is to be measured, a source of current connected to said bridge for energizing the same, said arms being non-adjustably connected together and having resistance values such that the bridge is balanced whenever said two exposed arms are of the same temperature, a bridge unbalance indicating instrument having at one side thereof a permanent non-adjustable connection with said bridge at a point between two of the arms thereof and at the other side thereof having a permanent non-adjustable connection with said bridge at a point between the other two arms thereof; said points being located so that there is no flow of current through the unbalance indicating instrument when the two exposed arms are of the same temperature, and means in heat exchange relationship to one of said exposed arms for artificially heating the same, whereby the cooling effect upon said exposed arms of fluid flowing past the same causes said unbalance indicating instrument to indicate the velocity of the fluid.

2,648,225
**LIQUID METERING DEVICE**
Alfred Victor Hemmens, Potts Point, near Sydney, New South Wales, Australia, assignor to A. V. Hemmens Pty. Limited, Sydney, New South Wales, Australia, a corporation of New South Wales
Application January 15, 1951, Serial No. 206,015
In Australia February 13, 1950
4 Claims. (Cl. 73—223)

1. A liquid metering device comprising a measuring chamber adapted to be disposed between a source of liquid and a suction line, said chamber having an inlet in the bottom for connection to said source and an outlet in the top for connection to said suction line, said outlet including a

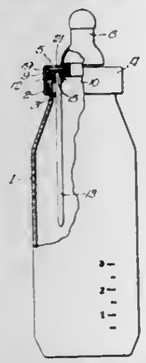
vertical tube of magnetic flux transmitting material, an interior cylindrical magnet slidably disposed for vertical reciprocation within said tube, said magnet having a cross-sectional area less than the inside diameter of said tube to permit the restricted passage of liquid relative thereto in said tube, a counter mechanism having an oscillatable operator, an exterior magnet attached to said operator in the field of flux of



said interior magnet, a gravity check valve in said measuring chamber for controlling the flow of liquid to said measuring chamber, a suction pipe projecting from the top of said measuring chamber and a float check valve in said measuring chamber adapted to close said suction pipe, and a by-pass pipe having its lower end between said check valves and its upper end communicating with said outlet.

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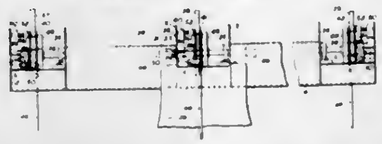
2,648,226
**TEMPERATURE INDICATOR FOR NURSING BOTTLES**
Percy R. Finch, Chicago, Ill., assignor to Eric Glasser, Chicago, Ill.
Application November 26, 1948, Serial No. 62,069
4 Claims. (Cl. 73—343)



1. In a nursing bottle having an opening in the top, the combination comprising a nipple having a flange circumferentially thereof resting on the top of said bottle and circumscribing said opening, a clamping ring threaded on said bottle, said ring having an annular flange resting on the flange of said nipple, there being an aperture through the flange of said nipple, and the flange of said ring having a thermometer mounted thereon with its temperature sensitive element extending through said aperture and into said bottle.

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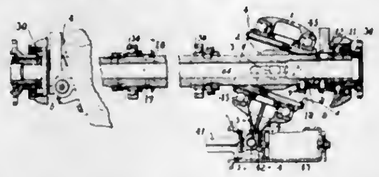
2,648,227
**SUPPORTING STAND SUITABLE FOR HOSIERY AND UNDERWEAR LINKING AND SEAMING MACHINES**
Frederick Ralph Savory, Sutton-in-Ashfield, England
Application December 30, 1950, Serial No. 203,602
In Great Britain November 26, 1949
6 Claims. (Cl. 74—16)



1. Supporting stand for hosiery and underwear linking and seaming machines, including at least one upright pillar, a rectilinear intermediate member fixed to the upper end of the pillar to extend horizontally, a plurality of arms attached to the intermediate member and projecting upwardly from said member at spaced locations thereof and disposed at an angle to the vertical axis of the pillar so that their upper ends are offset laterally from the intermediate member, each arm supporting at least one machine, means for effecting angular adjustment of each arm independently about the axis of the intermediate member to a comparatively small extent, and means for securing each arm in the desired position.

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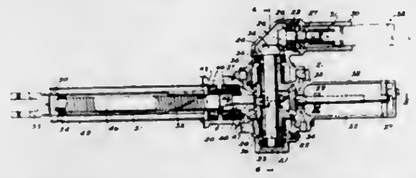
2,648,228
**INTERNAL-COMBUSTION ENGINE**
Samuel B. Eckert, Haverford, Pa.
Application January 18, 1947, Serial No. 722,876
4 Claims. (Cl. 74—60)



1. In an internal combustion engine comprising a rotatable engine shaft, two sets of opposed cylinders disposed about said shaft and having their axes parallel thereto, wobbler elements toward opposite ends of and non-rotatable with the shaft, one for each set of cylinders, members toward opposite ends of and rotatable with the shaft and in their rotation imparting movement to the wobbler elements, and pistons reciprocatory in said cylinders and operatively connected with said wobbler elements; the improvement which comprises control devices connected with said wobbler elements and operable to simultaneously slide them in opposite directions equal distances along the shaft, saddles on the shaft, one for each wobbler element, each saddle having a pair of sloping guide rails, a pair of arms on each wobbler element engaging the guide rails of the corresponding saddle, the movement of said wobbler elements along the shaft in opposite directions thereby changing the angles of inclination of the wobbler elements relative to the shaft.



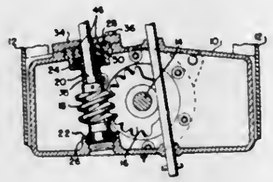
2,648,229
**POWER TRANSMITTING MECHANISM**
Loren E. Lura, Chicago, Ill., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application April 19, 1951, Serial No. 221,881
11 Claims. (Cl. 74—378)



1. A rotation transmitting mechanism between a driving shaft and driven element consisting of a system of gears capable of transmitting rotation from said shaft in one direction to said element in either direction, said system including two gears on said shaft meshing with a pinion operatively associated with said element, a spring clutch between each of said gears and shaft, clutch operating pins slidable through said gears, clutch control means including a collar slidable on said shaft between said gears and pins, said pins being responsive to the slidable movement of said collar to effect engagement of one clutch and release of the other, and a manually operable member through which slidable movement of said collar is effected.

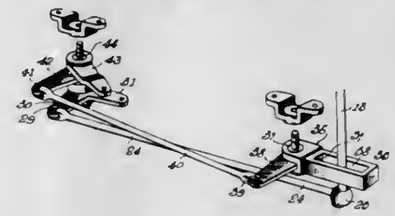
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2,648,230
**ADJUSTABLE BEARING SUPPORT FOR GEARING**
Nelson L. Stallsmith, Urbana, Ohio
Application February 16, 1950, Serial No. 144,444
4 Claims. (Cl. 74—396)



1. In a tractor steering gear; a hollow frame, a column traversing said frame and having thereon a sector, a shaft traversing said frame in a position offset from said column and having a worm thereon in mesh with said section, an anti-friction bearing on said shaft on one side of said worm supported by the frame, another anti-friction bearing on the shaft on the opposite side of the worm, a generally cylindrical member about the shaft on the opposite side of said other bearing from said worm having an eccentric bore in one face thereof to receive the outer race of said other bearing, a flat flange about the shaft secured in a single fixed position to the outside of the frame adjacent said member and having a circular recess to closely receive the outer periphery of said member, whereby angular adjustment of said member in the recess will move the shaft and worm radially of said section, and means for locking said member and flange together in a plurality of angularly adjusted positions while permitting axial adjustment of the member relative to the flange.

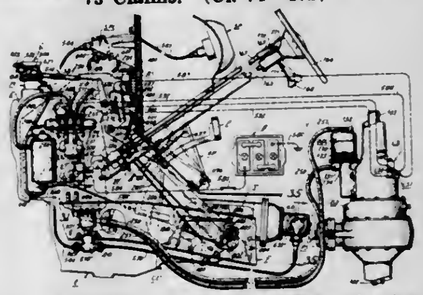
2,648,231
**SHOVEL CONTROL**
Everett R. Windahl, Lansing, Mich.
Application May 26, 1947, Serial No. 750,611
3 Claims. (Cl. 74—471)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A dual purpose control mechanism comprising a hanger rigidly attached to a supporting member, a control lever operatively mounted for universal movement relative to a vertical position in which it is normally disposed, a bellcrank swivelly suspended from the hanger to rotate in a horizontal plane about a stationary axis extending in parallelism with the longitudinal axis of said control lever when the latter is in its normal position, said bellcrank including a pair of arms one of which is longitudinally slotted to engage the control lever, second and third pivotally mounted bellcranks each having a pair of arms, a reach rod pivotally connected at one end to an arm of the second bellcrank and at its other end with the free arm of the first bellcrank and a second reach rod pivotally connected at one end with an arm of the third bellcrank and at its other end directly with the control lever.

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2,648,232
**AUTOMOTIVE TRANSMISSION CONTROL**
Glenn T. Randol, Fort Lauderdale, Fla.
Application March 18, 1948, Serial No. 15,519
73 Claims. (Cl. 74—472)

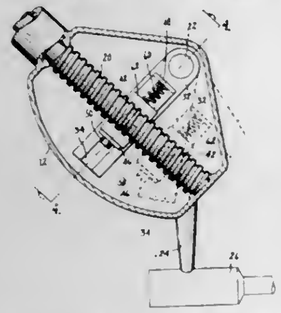


1. In a control for a transmission having a neutral condition and means to establish a first and means to establish a second speed ratio, manual means including a mechanical connection accommodating a supplemental movement of said manual means without disrupting the said mechanical connection thereof movable from a neutral position to a position to operate the first speed ratio means, and movable from said first speed position to a supplemental position without return to neutral, preselection means set by said manual means in its supplemental position to preselect the second speed ratio means for operation, additional means interconnected with said preselection means, and movable between first and second positions, to render the means to

establish the second speed ratio operable only when said preselection means is set by movement of the manual means to supplemental position and the additional means is in first position.

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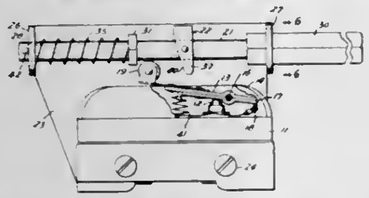
2,648,233
**VARIABLE POWER STEERING GEAR**
Loring S. Parker, Des Moines, Iowa, assignor of one-half to Glen W. Kauffman, Waukee, Iowa
Application March 7, 1952, Serial No. 275,254
10 Claims. (Cl. 74—499)



1. In a device of the class described, a shaft, a second rotatably mounted shaft, a lever fixed on said second shaft, a bar longitudinally slidably arranged on said lever, a member on said bar movable therewith relative to said lever, said member operatively connected to said lever so that the length of the line of travel between the pivotal axis of said lever and said member varies relative to the position of said bar on said lever, a block member operatively connected with said first shaft, said block in slidable engagement with said bar, and said bar movable at right angles to said first shaft in response to resistance of said second shaft to rotation.

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2,648,234
**MOMENTARY ACTION ACTUATOR**
John B. Lester, Freeport, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 10, 1950, Serial No. 167,456
8 Claims. (Cl. 74—503)



1. In an actuating mechanism for an operator actuated device, the combination of a member movable between opposite positions, support means for mounting said member on said device to be spaced from the operator of said device, a U-shaped member comprising a bridging portion extending transversely of the longitudinal axis of the movable member and spaced legs disposed on opposite sides of said movable member, said U-shaped member being pivotally mounted on said movable member with said legs positioned to engage the operator of said operator actuated device in one position of said movable member relative to said operator and said bridging portion extending transversely of the movable member and positioned to engage the movable member to maintain said U-shaped member supported on said movable member to move as a rigid unit therewith when engaging the operator in one direction of movement of said movable member for actuating the device, said U-shaped member being supported on said movable member to pivot thereon and to ride over the operator without actuating the device when said movable member moves in the opposite direction.

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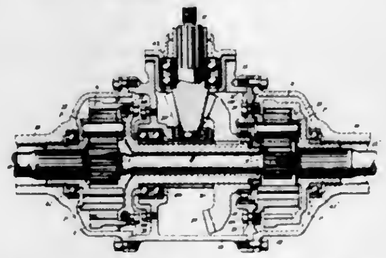
2,648,235
**ENGINE ROCKER ARM**
James M. Leake, Monroe, Mich.
Application August 31, 1949, Serial No. 113,393
2 Claims. (Cl. 74—519)



1. An engine rocker arm comprising a stamped arm member of plate metal with uniformly thick mid-section and solid vertical and substantially cylindrical and portions integral therewith and extending from the top side to the bottom side of said arm member and at the extremities thereof, the under surface of said cylindrical portions forming fixed contacting bearing surfaces, a cylindrical aperture in said arm member intermediated said contacting bearings, the centerline of said aperture extending at an oblique angle to the plate of said arm member and a tubular hub member secured in said cylindrical aperture so that the centerline of said tubular bushing coincides with the center line of said cylindrical aperture, said hub provided with two elliptical flanges upset intermediate its ends and one of said flanges extending outwardly and adjacent each side of said arm member, whereby longitudinal and rotary motion of said hub is prevented in said arm member.

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2,648,236
**DRIVING GEAR FOR THE DRIVEN AXLES OF VEHICLES**
Ronald Holdsworth Wilson, Leeds, England, assignor, by mesne assignments, to Kirkstall Forge Engineering Limited, Kirkstall, Leeds, England
Application December 22, 1949, Serial No. 134,474
In Great Britain January 31, 1949
7 Claims. (Cl. 74—694)

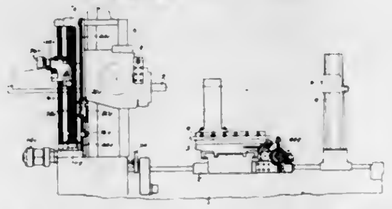


1. A driven axle for a motor road vehicle, comprising an axle casing, a pair of live axles in the axle casing, gears in the axle casing providing a first reduction stage, first and second gear trains in the axle casing providing a second reduction stage and arranged to drive the live axles at substantially equal torque while allowing of differential movement thereof, each of said gear trains comprising three components; namely, a wheel, a pinion carrier and an internally toothed annulus; one component of the first gear train being driven from the first reduction stage, another component of the first gear train driving one of the live axles and the third component of the first gear train driving the wheel of the second gear train, and another component of said second gear train driving the other live axle, and means for securing the third component of said second gear train to the axle casing.



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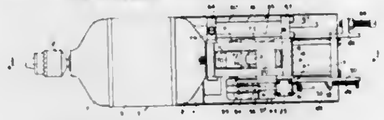
2,648,237
**UNIVERSAL REAMING MACHINE**
Ugo Falconi, Milan, Italy, assignor to Officine Meccaniche Ceruti S. A., Milan, Italy, a firm
Application March 21, 1951, Serial No. 216,813
In Italy October 12, 1950
6 Claims. (Cl. 77—3)



1. A universal boring machine comprising a vertical slide and a cross slide, a rotary screw for actuating each of said slides, feed gearing for driving each screw, a gear differential for also driving each screw, a shiftable clutch for connecting and disconnecting the feed gearing to each screw, a shiftable clutch for connecting and disconnecting the differential with each screw, an electric motor for driving each differential at high speed to effect rapid traverse of each slide in either direction, a hydraulic motor for driving the screw connected to each slide at slow speed in one direction, means for preventing engagement of either feed gearing clutch while the differential clutch for the same screw is engaged and vice versa, a rotary drum coordinated with each slide and having a plurality of axially-extending grooves which are parallel to the direction of movement of the associated slide, setting blocks and stopping blocks mountable in the grooves of each drum and adjustable along said grooves, a lever connected to each slide and adapted to engage said blocks, handwheels for rotating said drums, shiftable clutches for coupling said handwheels to said drums to permit rotation of said drums, cams for controlling the circuits to said electric motors, and means for synchronizing the operations of the various parts.

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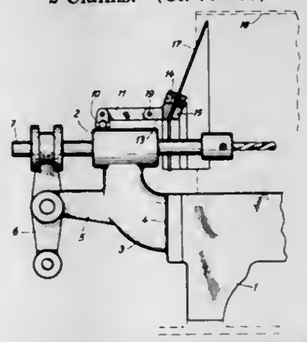
2,648,238
**TOOL ACTUATING MECHANISM AND CONTROL UNIT THEREFOR**
William E. Raney, Lakewood, Ohio
Application April 19, 1949, Serial No. 88,456
16 Claims. (Cl. 77—33.5)



1. In combination, an electric drive motor having a rotor supported therein for rotation about its central axis and for axial movement from one side to the other of a neutral axial position to which the magnetic field generated in said motor tends to draw said rotor, a drive shaft driven by said rotor and movable axially therewith and having means thereon for mounting a rotary cutting tool for infeed and outfeed movement relative to a work-piece, and actuating means operative to axially shift said rotor from one side to the other of such neutral axial position first predeterminedly retarding drawing of the rotor toward neutral position by the magnetic field and then predeterminedly overcoming the magnetic field opposition to movement of the rotor from neutral position and thus correspondingly axially shift said drive shaft.

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2,648,239
**GUARD CONSTRUCTION FOR MACHINE TOOLS**
André Bechler, Moutier, Switzerland
Application December 17, 1948, Serial No. 65,911
In Switzerland December 24, 1947
2 Claims. (Cl. 77—55)



1. A guard for a machine tool having a horizontal shaft and a bearing post therefor, said guard comprising a bracket member, a support member, a shield rigidly connected with said bracket member, link means vertically swingably connected with and straddling said support member and said bracket member, transverse compressing means intermediate the ends of said link means whereby the link means may be compressed to clamp said link means in the desired position relatively to said support member as well as to said bracket member, and a vertical pivot extending from the bearing post of the machine tool, said support member being horizontally rotatably and removably supported by said pivot.

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2,648,240
**CLAMPING DEVICE**
Rudolph Peters, Oakland, Calif.
Application May 31, 1952, Serial No. 290,981
6 Claims. (Cl. 77—63)

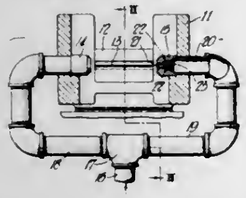


1. A device for holding an object to be drilled on a drill press table comprising a pair of par-

allel bars, a pair of rods connecting said bars, swivel means connecting said rods with said bars permitting the latter to swing in relation to said rods, said swivel means having extensions for engaging the side of said drill press table.

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**2,648,241**
**APPARATUS FOR DUST PREVENTION**
**Kazmer J. Bores, Cleveland, Ohio**
**Application September 4, 1947, Serial No. 772,132**
**1 Claim. (Cl. 80—1)**



In combination, a hot strip mill including a pair of rolls, means on the exit side of said rolls for maintaining hot steel strip in a substantially horizontal path as it emerges from said rolls, and an apparatus for preventing formation of dust from scale on the strip, said apparatus comprising two nozzles constructed for spraying water introduced thereto as a swirling cone having a minimum of interior void space, means mounting said nozzles in axial alignment at opposite sides of said strip path for directing said sprays towards each other and at such locations that the thickness dimension of this path bisects each cone of water, and means for supplying water under sufficient pressure to said nozzles to provide finely divided sprays capable of wetting dust particles.

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**2,648,242**
**GRIPPING DEVICE WITH PIVOTED ACTUATOR AND HAVING PAWL AND RACK LOCKING MEANS**
**Louis Milton Walter, Republic, Wash.**
**Application May 22, 1952, Serial No. 289,306**
**6 Claims. (Cl. 81—19)**



1. A device of the character described comprising a base plate, a stationary jaw carried by said base plate, said base plate being formed with a slot and with hooks at opposite sides of the slot, the base plate being also formed with an opening, a chain constituting a movable jaw and consisting of links pivotally connected with each other by pins having end portions projecting from opposite sides of the chain and selectively engageable with the hooks to hold the chain in an adjusted position with a portion passing through the slot, a bolt pivoted to an end of said chain and passing downwardly through said opening and threaded from its lower end, a nut screwed upon said bolt and having a convexed upper bearing surface, a resilient arm pivotally mounted under said base plate and formed with an opening through which said bolt slidably passes, said arm resting upon the bearing surface of said nut, a tongue projecting from the base plate and having its under surface formed with a rack having transversely extending teeth, a wedge slidable along said arm and pivotally upwardly therefrom with its upper end engaging said rack, a sleeve carried by and extending longitudinally from the free end of said arm and formed with longitudinally extending slots in opposite side positions, a tubular handle bar slidable longitudinally through said sleeve and carrying a transverse pin having end portions slidable longitudinally in the slots of the sleeve, and a compression spring extending longitudinally in the handle bar and secured at its ends to the wedge and the pin carried by the handle.

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**2,648,243**
**ADJUSTMENT RETARDER FOR SLIDABLE SIDE JAW WRENCHES**
**Eugene Chappel, Whitesboro, N. Y., assignor to Utica Drop Forge & Tool Corporation, a corporation of New York**
**Application February 29, 1952, Serial No. 274,135**
**1 Claim. (Cl. 81—165)**



In combination with an adjustable jaw wrench having a rotatable member and a recess to receive the adjustable member, a removable spring clip made of flat spring material and having a U-shape with first and second leg portions and a bowed mid portion joining the leg portions, said first and second leg portions extending to terminal free ends in a first direction from said mid portion, said clip receivable in the recess of the wrench and with the bight of the bowed portion of the clip fitting over a portion of the wrench, a portion of the clip in the area of the bight extending away from the body of the clip in a second direction from said mid portion to a free end in the form of a spring arm, said spring arm engaging the adjusting member to prevent rotation thereof.

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**2,648,244**
**ADJUSTING MEANS FOR SLIDABLE SIDE JAW WRENCHES**
**Fray Alejandro Calbo Alemany, Cheva, Spain**
**Application August 4, 1951, Serial No. 240,364**
**In Spain September 7, 1950**
**2 Claims. (Cl. 81—175)**



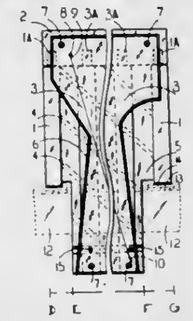
1. In a slidable side jaw wrench having a fixed jaw, a movable jaw mounted for movement toward and away from the fixed jaw, and a



threaded spindle mounted for rotation about an axis at a substantial angle to the direction of movement of the movable jaw and for axial displacement in response to the rotation thereof; an arrangement for converting the axial movements of the spindle into movement of the movable jaw toward and away from the fixed jaw comprising a guide surface on the movable jaw at a substantial angle to the axis of rotation of the spindle, a head on the spindle formed to bear against said guide surface when the spindle is moved axially in one direction for displacing the movable jaw in one direction relative to the fixed jaw, a slot formed in the movable jaw parallel to said guide surface and opening longitudinally at the latter through a channel of reduced width, an extension projecting axially from said head of the spindle and extending loosely through said channel of reduced width and into said slot, and an enlargement on the end of said extension within said slot and having a width greater than said channel so that, when the spindle is moved axially in the opposite direction said enlargement will bear in said slot for displacing the movable jaw in the opposite direction relative to the fixed jaw.

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**2,648,245**
**PIANO STRING-PLATE MOUNTING**
**Henry Forbes Russell, Quincy, Mass.**
**Application March 13, 1952, Serial No. 276,377**
**1 Claim. (Cl. 84—185)**



The method of installing an upright piano of the type in which the string-plate extends beyond the casing and in which the casing has a larger cross-sectional dimension than the string-plate which comprises cutting a hole in a floor, said hole having a dimension which is smaller than said dimension of said casing and larger than the corresponding dimension of the string-plate and inserting the lower end of the string-plate into said hole.

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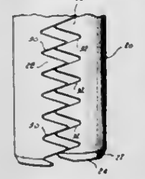
**2,648,246**
**LIGATURE FOR MUSICAL INSTRUMENTS**
**Walter W. Mueller, Douglaston, N. Y.**
**Application April 7, 1949, Serial No. 86,025**
**2 Claims. (Cl. 84—383)**



1. A ligature assembly for attaching the reed to the mouthpiece of a reed-type musical instrument, comprising a ligature consisting of a split circular band having upturned ends provided with two tangentially positioned screws and lugs for tightening said upturned ends, and a smooth pressure equalizing plate curved to conform approximately to the curvature of the outer surface of said reed and the inner surface of said ligature, said plate having a width sufficient to cover said reed but not great enough to bind on said musical instrument mouthpiece when said ligature is tightened in position, said plate also having a length at least as great as the longitudinal dimension of said ligature, said plate being made of material substantially as strong as metal and strong enough to distribute the pressure equally over the reed surface when said ligature is tightened in position and yet just sufficiently resilient to accommodate itself to possible slight differences in the curvature of the reed surface and ligature, said plate having vertical fastening means attached thereto longitudinally along its midline and said fastening means having two holes therein so positioned as to cooperate with the two tightening screws and lugs of said ligature, whereby, when said ligature and pressure equalizing plate and a reed are positioned on a mouthpiece of a musical instrument, and the screws are tightened, there results substantially even pressure between said ligature and said pressure plate and between said pressure plate and the reed, and whereby said reed is held firmly in the desired position without binding in certain spots and without being pinched by said ligature or said pressure plate.

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**2,648,247**
**ELASTIC SLEEVE**
**Oscar Schmuziger, Ruschlikon, Switzerland**
**Application April 25, 1950, Serial No. 158,043**
**In Switzerland November 23, 1949**
**5 Claims. (Cl. 85—8.3)**



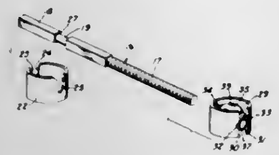
1. A sleeve comprising a sheet of elastic material curved along a generally cylindrical shape with the free edges of the sheet separated from each other and formed substantially entirely with a plurality of longitudinally spaced complementary, coacting, interfitting teeth, each of the teeth being substantially triangular in shape, one free edge of the sheet being axially displaced from the other free edge of the sheet to bring the lower flanks of the teeth of one sheet edge into contact with the adjacent respective upper flanks of the teeth of the other sheet edge.

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**2,648,248**
**NUT AND HOLDER**
**Emanuel L. Cederquist, Los Angeles, Calif.**
**Application December 23, 1950, Serial No. 202,509**
**2 Claims. (Cl. 85—32)**

1. In a device of the class described, a nut holder comprising a cylindrically-shaped section of sheet metal having oppositely notched ends slightly spaced from each other and having an aperture diametrically opposite the space between the ends, a nut having a threaded bore

therein, said nut being disposed within the nut holder and having cylindrical trunnions on its ends coaxially arranged with respect to the threaded bore of the nut, one of said trunnions



being rotatable in the aperture of the nut holder and the other of said trunnions being rotatable between the notches in said ends, and means whereby the nut may be rotated in the nut holder.

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2,648,249

## FREQUENCY MODULATED PHOTOMETER

**Alfred H. Canada, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application February 28, 1948, Serial No. 11,962**
**3 Claims. (Cl. 88—14)**



1. A frequency modulated photometer comprising a principal parabolic mirror, a second parabolic mirror facing and axially aligned with the face of the principal mirror, a source of polychromatic light, collimating means to direct light from said source to said principal mirror in parallel rays so that said rays are directed toward a first focal point by the principal mirror, a first plane mirror located substantially at said first focal point and positioned to redirect the focused rays to the principal mirror from which they are again reflected as parallel rays, a prism positioned to intercept and refract such re-reflected parallel rays and to disperse rays of different wavelengths, a second plane mirror positioned to reflect said refracted rays back through the prism to the principal mirror so that the dispersed rays are focused to form a spectrum, a wavelength selector mirror positioned to redirect rays from a single portion of said spectrum back to the principal mirror where they are again reflected as substantially parallel rays of monochromatic light along a path from the principal mirror to the second parabolic mirror, means to introduce a substance to be tested into this path, means to vibrate the wavelength selector mirror over a narrow range of the spectrum not exceeding 100 wave numbers in width to vary the wavelength of the reflected light, and a detector located at the focus of the second parabolic mirror and responsive to alternations in the intensity of rays transmitted by the substance tested.

2,648,250

## INTERFEROMETER APPARATUS WITH MEASURING GRID

**Theodor W. Zobel, Braunschweig, Germany**

**Application October 30, 1950, Serial No. 193,009**
**4 Claims. (Cl. 88—14)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. An interferometer apparatus comprising a concentrated light source, means for collimating light from the light source to form a collimated light beam, first beam splitting means positioned in the collimated light beam for dividing the collimated light beam into two diverging partial beams of collimated light, reflector plates disposed in said partial beams for reflecting said partial light beams toward and across each other at a predetermined distance from said beam splitting means, one of said partial light beams comprising a test beam disposed to traverse a test medium when said test medium is interposed in said test beam, and the other partial beam comprising a comparison beam, a second beam splitting means disposed across both of the said partial beams at the point of intersection thereof to recombine said beams to form an interference beam after the test beam has traversed the position where the test medium is to be interposed in said test beam, image forming means in said interference beam having its image plane located in a transverse plane through the test partial beam where the test medium is introduced, and a grid member interposed perpendicularly in the comparison beam, between the first and second beam splitting means at an optical distance from the image forming means substantially equal to the distance between the image forming means and said image plane.

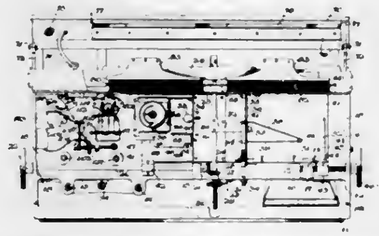
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2,648,251

## FIBER LENGTH DISTRIBUTION MEASURING INSTRUMENT

**Louis M. Puster, Knoxville, Tenn., assignor, by mesne assignments, to The University of Tennessee Research Corporation, Knoxville, Tenn., a corporation of Tennessee**

**Application July 2, 1947, Serial No. 758,663**
**6 Claims. (Cl. 88—14)**



1. In an instrument of the type described, a light responsive device, a source of light for said light responsive device, a second light responsive device, a second source of light for said second light responsive device, means for moving a sample of fibers to be measured across the path of light from said first light source, means for moving said second light source with respect to said second light responsive device to bring the amounts of light received by said light responsive devices to a predetermined differential, automatically actuated means movable with said second light source to vary the position of said second light responsive device with respect to the position of said second light source to supply instrument corrections and mechanical means moved by the movement of the sample and by the movement of said second light source for effecting a resultant of the movements of the sample and of said second light source.



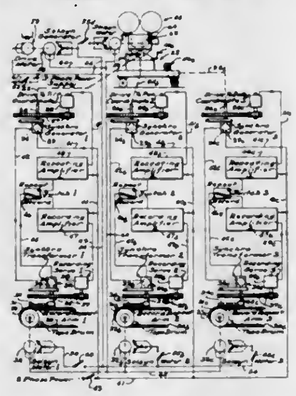
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2,648,252

## CONTROL OF CAMERA-SUBJECT MOTION IN MOTION-PICTURE PHOTOGRAPHY

**Gilbert L. Stancliff, Jr., Burbank, and Henry Gordon Jennings, Los Angeles, Calif., assignors, by mesne assignments, to Paramount Pictures Corporation, a corporation of New York**

**Application September 17, 1948, Serial No. 49,756**
**1 Claim. (Cl. 88—16)**



Apparatus for the repetitive production of a definite timed program of orientation shifting of a motion picture camera during exposure of a motion picture film therein, embodying, in combination with the motion picture camera, its film moving mechanism, and a mounting on which the camera is angularly displaceable about an axis to vary its orientation angle with respect to a predetermined datum orientation; an elongate record tape carrying a continuous linear record element which extends longitudinally of the tape, points on said linear record element being variously displaced laterally with respect to a predetermined longitudinal datum axis, the magnitude of said varying lateral displacement representing and corresponding to varying angular displacement of the motion picture camera from a predetermined datum orientation, means for driving the record tape longitudinally in constant timed relation to the film moving mechanism of the camera, a record follower, freely movable laterally of the record tape, and the linear record element and the follower being of such cooperative physical natures that the follower will physically follow the varying lateral displacement of the record element, and connective means linking the follower to the motion picture camera and acting to positively move the camera in angular displacement relative to its datum orientation proportionately to lateral displacements of the record follower with reference to the datum axis of the record.

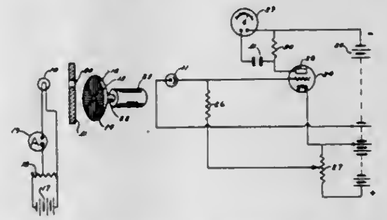
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2,648,253

## COLOR TEMPERATURE METER AND COLOR ANALYZER

**Monroe H. Sweet, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**Application April 23, 1949, Serial No. 89,339**
**4 Claims. (Cl. 88—22.5)**



1. An arrangement for measuring the color-temperature of a light source, comprising in combination a light responsive device producing electrical energy in direct proportion to light intensity, means between said device and the light source to be measured for alternately interposing in the path of the light beam, in rapid succession, at least two monochromatic filter elements at a predetermined rate causing fluctuations of said electrical energy in accordance with the ratio of two spaced spectral band components in said light source, an amplifier having logarithmic transfer characteristics, circuit means for impressing said fluctuating electrical energy upon said amplifier and means for indicating the amplified energy in terms of color-temperature values, an electrical connection from the output of said amplifier to said indicating means, the indication of said indicating means, resulting from the logarithmic amplification of said impressed fluctuating electrical energy, being substantially unaffected by overall changes in the intensity of said source.

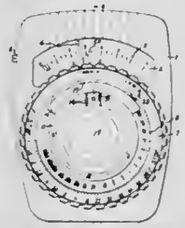
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2,648,254

## LOGARITHMIC EXPOSURE METER

**Allen G. Stimson, Lynnfield, Kermit Brynes, Manchester, Frederic B. Jennings, Beverly, and Clement F. Taylor, Peabody, Mass., assignors to General Electric Company, a corporation of New York**

**Application September 30, 1947, Serial No. 777,086**
**9 Claims. (Cl. 88—23)**



1. A combined exposure meter and calculator comprising a light cell, an electrical measuring instrument energized by current from said cell when exposed to measurable light values, a

pointer deflected by the operation of said instrument, an exposure calculator having exposure data scales and scale plates in angular correlating relation with said instrument pointer, one of said plates being a stop scale plate with a single continuous stop scale thereon, said instrument response and calculator scales being designed for equal angular movements for obtaining correct exposure data for changes in the measurement light value, a shutter associated with said cell movable between open and closed positions for changing the relation between the measured light value and the portion thereof which influences said cell, first and second indices on said stop scale plate of said calculator and movable thereon from exposed to concealed positions, the first of which is adapted to be exposed in one stop scale position on said stop scale plate for alignment with said pointer when the shutter is open and the second of which is adapted to be exposed in a different stop scale position on said scale plate for alignment with said pointer when the shutter is closed in the correct use of such combinations, and means operated by angular rotation of said stop scale plate for opening and closing said shutter and simultaneously with such opening operation to move the first index from concealed to exposed position and the second from exposed to concealed position and simultaneously with such closing operation to move the first index from exposed to concealed position and the second index from concealed to exposed position.

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**2,648,255**
**SPECTACLE RETAINING DEVICE**
**Eleanor E. Pendleton, St. Louis, Mo.**
**Application March 30, 1949, Serial No. 84,335**
**6 Claims. (Cl. 88—51)**



5. In combination, a retainer device for use with a conventional spectacle frame having a lens frame and temple bars extending backwardly therefrom and passing over the ears of a wearer; the retainer device comprising a flexible elongated element of ribbon and chain-like flexibility, and attachment devices at the ends thereof; the flexible element having a length such that the spectacle frame and retainer device form a loop of a size freely to pass over the head of a wearer, and to permit the spectacles to be withdrawn from the ears, whereby the spectacle frame may be worn conventionally with the elongated element hanging loosely behind the head of the wearer or may be suspended from the neck of the wearer with the frame on the wearer's chest, each attachment means comprising a clamping member removably attachable to conventional temple bars, the clamping member having readily expansible and contractible means normally resiliently and elastically contracted, but freely yieldable to expansion to be fitted onto, or removed from, the temple bar at will, and by contraction to engage securely on the temple bar to enable the spectacles to be supported by suspension upon the elongated element around the neck of the wearer, and means to fasten the clamping members to the ends of the elongated element without interfering with the free expansion of the clamping members; wherein each clamping member is a tubular piece of gum rubber or the like, and each fastening means comprises rigid parts secured to the tubular piece on only one side thereof, whereby the tubular piece may freely expand over a temple bar, and be slid therealong.

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**2,648,256**
**REARVIEW MIRROR STRUCTURE**
**Frances Budreck, Chicago, Ill., assignor to Monarch Tool & Machinery Co., Chicago, Ill., a corporation of Illinois**
**Application January 19, 1951, Serial No. 206,795**
**2 Claims. (Cl. 88—98)**



1. As a new article of manufacture, a rear view mirror structure adapted to be positioned on the outside of a vehicle and comprising an outwardly extending arm provided at its inner end with means for attachment to the vehicle and having in its outer end a horizontally and transversely extending polygonal hole, a cup-shaped shell disposed directly rearwards of the outer end of the arm, consisting of a crosswall and a continuous side wall, and having a mirror plate confined within its side wall, and an exteriorly disposed universal joint extending between the shell crosswall and the outer end of the arm, operative to support the shell together with the mirror plate for limited angular adjustment in different directions with respect to said arm, and embodying a hollow substantially hemispherical member disposed adjacent, and having the apex portion thereof projecting forwards from, the central portion of the shell crosswall, having an opening in its apex portion, and having its outer marginal portion connected fixedly to said central portion of the shell crosswall, a horizontal bolt consisting of a shank and an enlarged head on one end of the shank, extending loosely through the opening in said apex portion of the member, arranged so that its head is disposed within said member, having the head end portion of the shank thereof of the same polygonal cross sectional shape and size as the hole in the outer end of the arm and arranged so that its inner extremity fits within, and extends snugly but slidably through, said hole in the arm, and having the other end portion of its shank screw threaded and projecting forwards of the outer end of the arm, a one-piece sheet metal outer cup-shaped washer interposed between said hollow member and the outer end of the arm and consisting of a flat circular crosswall abutting directly against said outer end of the arm, provided in its central portion with a polygonal hole corresponding in shape and size to, and in registry with, the aforementioned hole and through which extends the snugly but slidably the central part of the head end portion of the shank of the bolt, and having its hole defining portion in such interlocked relation with said central part of the head end portion of the bolt shank that the washer is positively held against turning movement relatively to the bolt, and in addition a cylindrical side wall connected to, and projecting rearwards from, the outer margin of the washer crosswall and having its free rear margin bent outwards so as to form an outwardly and rearwardly flared frusto-conical flange that is in smooth sliding engagement with the outer surface of the apex portion of the hollow member, and a clamp nut on the threaded end portion of the shank of the bolt.



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**2,648,257**
**PROJECTILE-ACCELERATING MECHANISM FOR FIREARMS**
**Everett N. Stanley, Casper, Wyo.**
**Application September 21, 1951, Serial No. 247,604**
**9 Claims. (Cl. 89—8)**



1. A projectile-accelerating mechanism for guns comprising, in combination with a gun barrel, a supplementary charge chamber adapted to contain a predetermined quantity of an explosive material and communicating with the barrel for ignition of said material by an original explosive charge detonated within the barrel; a magazine containing a supply of said material and normally communicating with the supplementary charge chamber; means on the magazine adapted to force said material into said chamber whenever the chamber and magazine are in communication; and a valve arranged for actuation by the detonated original charge to a position in which it closes communication between the supplementary charge chamber and magazine.

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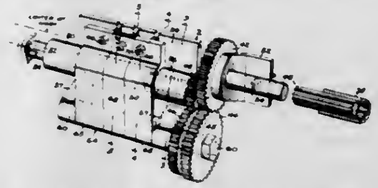
**2,648,258**
**CARTRIDGE LINK AND FEEDWHEEL FOR DISINTEGRATING BELTS**
**Clarence E. Simpson, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War**
**Application June 21, 1948, Serial No. 34,232**
**12 Claims. (Cl. 89—33)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In combination with a cartridge belt feedwheel having two spaced sprockets for receiving a cartridge having an extractor groove, a slot being provided between each of the teeth of the rearmost sprocket, a disintegrating cartridge belt link comprising a single open ring, a pair of rings comprising a coaxial open front and rear ring secured to and adjacent said single open ring, a substantially T-shaped tab on said rearmost coaxial ring pivotally engageable with said slot to longitudinally position said link relative to said feedwheel, and detent means on said tab engageable with the extractor groove of the cartridge whereby the cartridge is yieldingly positioned within said link.

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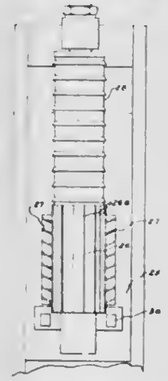
**2,648,259**
**ATTACHMENT FOR MILLING OR SLOTTING METAL PARTS**
**Steve M. Kulusic, Hazel Park, Mich.**
**Application October 19, 1950, Serial No. 191,057**
**6 Claims. (Cl. 90—11)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. An attachment of the character described comprising, in combination, a drive spindle adapted to be rotatably driven through one end thereof by drive mechanism, a support member for said drive spindle, the other end of said drive spindle being rotatably mounted in said support member, a tool spindle carrier support member, a hinge pin fixedly supported in a bottom portion of said spindle carrier support member, a tool spindle carrier hingedly mounted on said hinge pin, means for adjustably positioning said tool spindle carrier at an upper portion thereof at a desired distance of the latter from said spindle carrier support member, a tool spindle rotatably mounted in said upper portion of said tool spindle carrier, gearing operatively connecting the other end of said drive spindle to one end of said tool spindle, a bladed rotary cutter secured to the other end of said tool spindle, a brake element hingedly mounted at one portion thereon on said hinge pin, and adjustable means at another portion of said brake element providing adjustable hinged movement of the latter whereby desired braking pressure of said brake element may be applied on said tool spindle to prevent back lash during operation of the attachment.

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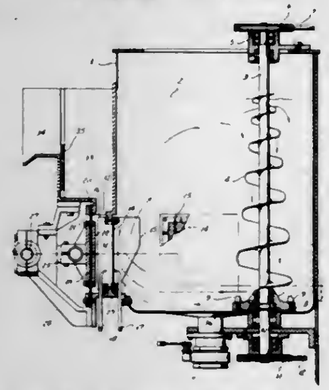
**2,648,260**
**APPARATUS FOR MANUFACTURING THIN WALL PRECISION BEARINGS**
**John M. McKinley, Willoughby, Howard Phillips, Mentor on the Lake, and Frank Siciliano and John McNeice, Cleveland, Ohio, assignors to Clevite Corporation, a corporation of Ohio**
**Application August 21, 1948, Serial No. 45,464**
**6 Claims. (Cl. 90—33)**



1. In a broaching machine for precision finishing of bearing half shells, a back-up block having

a recess complementary in shape to the exterior of the bearing shell to support said shell; a sliding tool carrier; a tool on the carrier comprising a portion for dynamically clamping the bearing surface to the back-up block during the first part of the machine stroke and a broaching portion for finishing the bearing surface during a second part of the broaching stroke; and a pair of broaching tools mounted on the tool carrier adjacent and parallel to the dynamic clamping portion of said tool to finish the parting edges of the bearing half shell while it is dynamically clamped said back-up block having a pair of static clamps to engage said broached parting edges before the release of said dynamic clamping force.

**2,648,261**
**FIBER DISINTEGRATOR AND SEPARATOR**
**Merle P. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, South Portland, Maine, a corporation of Maine**
**Application June 30, 1950, Serial No. 171,285**
**18 Claims. (Cl. 92—23)**



1. A pulper comprising: a tank adapted to contain a mixture of water and paper, a rotatable feeding device extending downwardly into the tank to feed a stream of the mixture downwardly, an impactor disk subjacent to and coaxial with the feeding device and rotatable independently thereof and having on its upper face upstanding impactor knobs, means for rotating the feeding device at relatively slow speed and the impactor disk at relatively high speed in opposite directions whereby the material in the tank is caused to circulate downwardly past said impactor disk counter to the direction of rotation of said disk to cause said paper to be disassociated and to continue the circulation of said material past the walls of the tank, a screen in the side wall of the tank contiguous to the inner face past which the material is circulated, and fixed upright fins extending from the inner face of the screen to form between them upright channels to direct the circulatory flow in the tank past the screen.

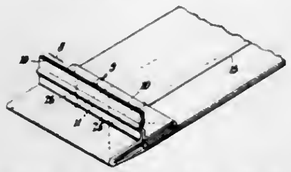
**2,648,262**
**FIBROUS MATERIAL EXTRUSION APPARATUS**
**Edward L. Croston, Dash Point, and Horace R. Harbord, Tacoma, Wash., assignors to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington**
**Application September 3, 1948, Serial No. 47,578**
**9 Claims. (Cl. 92—61)**

1. Fibrous material extrusion apparatus for the manufacture of fiberboard comprising a plunger guide chamber including a side wall having therein a fibrous material admission opening, a tapered compression chamber substantially aligned with and joined to one end of said plunger guide chamber and having walls mutually converging in the direction away from the plunger guide chamber, a heating chamber substantially aligned with and joined to the discharge end of said compression chamber, a plunger guided for reciprocation in said plunger guide chamber to cover said admission opening and to withdraw therefrom by movement toward and away from said compression chamber, respectively, thereby to control ad-



mission of fibrous material into said guide chamber and to ram the admitted fibrous material progressively into and through said compression chamber, to form a compressed mat therein, and through said heating chamber for curing of such mat therein, and a sliding endless free-moving carrier screen movable through such compression and heating chambers by frictional drag of the mat thereon driven through such chambers by intermittent ram action of the plunger, such material-driven screen thereby tending to equalize rate of movement of the mat portions in the compression and heating chambers.

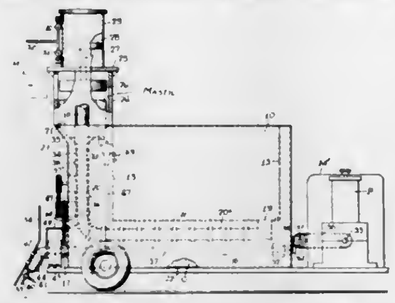
**2,648,263**
**METHOD OF MAKING BAGS**
**Arthur W. Richens, Upper Darby, Pa.**
**Application October 2, 1948, Serial No. 52,465**
**4 Claims. (Cl. 93—35)**



1. A method of making bags comprising: continuously advancing in the direction of its length a bag length of flattened gussetted tube having on its inner surface portions at least of thermoplastic material; during such advance, opening one end of said tube to form an open rectangular box having its bottom in the flattened body of the tube; during such advance, collapsing the walls of said box against the body of the bag to leave an upstanding fin running transverse the length of the tube; during such advance, and with said fin in upstanding condition, subjecting said fin within at least one of said portions of thermoplastic material to heat and pressure, and thereafter securing said fin against the body of the bag.

**2,648,264**
**WATERPROOFING UNIT**
**Herman Green, Garden City, N. Y.**
**Application November 1, 1946, Serial No. 707,302**
**2 Claims. (Cl. 94—39)**

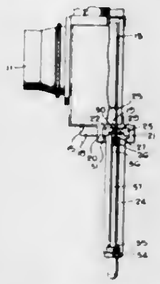
1. In a portable device for luting with waterproofing material comprising critically heat-responsive rubber mastic which is deleteriously affected at or above critical temperatures, a jacketed kettle for retaining quantities of said mastic, the combination therewith of pump means to circulate a heat transfer medium in the jacket of said kettle, a conduit leading to said kettle, a hopper leading to said conduit, pneumatic means for feeding mastic in block form into said conduit, tubes interiorly of said conduit about



which the mastic may pass in transit to said kettle and said tube being in heat transfer relationship with said jacket for conducting said heat transfer medium through said tubes and said jacket of said kettle, power driven means for discharging liquid mastic into luting position, including a heating jacket and means to circulate the heat transfer medium from said last jacket to said kettle jacket.

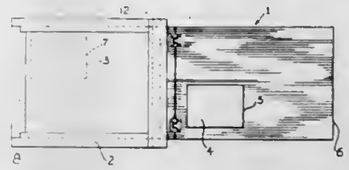


**2,648,265**
**APPARATUS FOR INTRODUCING CUT FILM INTO CAMERAS**
**Pompeo B. Candela, San Bernardino, Calif.**
**Application June 19, 1950, Serial No. 169,050**
**1 Claim. (Cl. 95—11)**



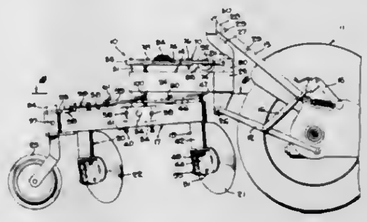
Apparatus for introducing cut film into a candid camera comprising a wall to be releasably attached to said camera, said wall having a slot therein in alignment with the focal plane of said camera, a U-shaped bracket integral with said wall, a hollow, elongated frame open at one end, flanges integral with the frame and adapted to be slidably received by said bracket, said flanges defining the open end of said frame, film-guiding means formed in the flanges in registration with said slot and said open end, a chamber in one flange, a light stopper secured in said chamber, reciprocable means carried by the flanges for partitioning said open end from said film-guiding means when the apparatus is not in use, said reciprocable means being in contacting relationship with said light stopper, and means within the frame for advancing film into the camera through the open end, film-guiding means, slot, and retracting the same.

**2,648,266**
**CAMERA SLIDE**
**Robert M. Daly, New York, N. Y.**
**Application June 12, 1950, Serial No. 167,657**
**4 Claims. (Cl. 95—36)**



1. A device for making multiple exposure on a plate or film disposed in a holder of the type having an open end and light excluding means adapted to be deflected across said open end, the said device comprising in combination a main dark slide having an exposure aperture disposed to one side of its transverse center line and being adapted for withdrawal from the open end of the holder so as to permit its reversal and an auxiliary dark slide of a size sufficient to cover the said exposure aperture of the main slide so as to prevent catching of the light-excluding means in said exposure aperture.

**2,648,267**
**TWO-WAY DISK PLOW**
**Harry A. Pursche, Gardena, Calif.**
**Application June 20, 1949, Serial No. 100,107**
**17 Claims. (Cl. 97—32)**

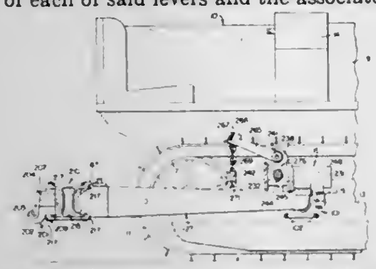


1. In a two-way disk plow, the combination of a carrier, a pair of spaced parallel posts on the carrier, a ground engaging disk rotatably mounted upon the lower portion of each of said posts, means for pivotally supporting the carrier for turning movement about a substantially vertical axis intermediate said posts, means for adjusting the angular inclination of the carrier with respect to said axis, and means for turning each of the posts relative to the carrier.

**2,648,268**
**UNIT CARRIER**
**Jesse G. Lindeman, Yakima, Wash., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application September 5, 1947, Serial No. 772,274**
**10 Claims. (Cl. 97—46.35)**

4. In a tool carrier of the type described, a pair of side members, each having a laterally disposed socket, a cross bar carried in said sockets, an arm fixed at one end to each end of said cross bar, a lever connected at an intermediate point to the outer end of each of said arms, means connecting one end of each of said levers to the associated

side member, and means connected with the other end of each of said levers and the associated side



member for adjusting the position of each lever relative to the associated side member.

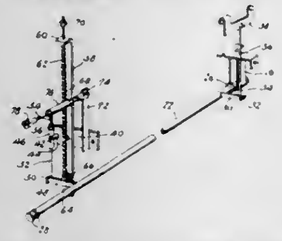
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2,648,269

## MEANS FOR COUPLING FARMING IMPLEMENTS TO CONVENTIONAL FARM TRACTORS ADJACENT THE FORWARD END THEREOF

**Edward Maurer, deceased, late of Freeland, Mich., by Esther Maurer, administratrix, Freeland, Mich.**

**Application March 26, 1952, Serial No. 278,574**
**10 Claims. (Cl. 97—47.35)**



1. In a farm tractor of the type having a prime mover, lift arms mounted on said tractor to move in unison in spaced vertical arcuate paths adjacent the rear end of the tractor, and manually actuated means carried by the tractor and operatively connected to the prime mover and to the lift arms for controlling the movements of the lift arms in the arcuate paths, means for coupling a farming implement to the tractor adjacent the forward end thereof for vertical movement by the lift arms, said means comprising elongated push bars carried by the tractor below the lift arms for vertical movement and for rotation about their longitudinal axes, said push bars extending in spaced relation adjacent opposite sides of the tractor and beyond the front end thereof, means carried by the push bars adjacent the rear end of the tractor and connected to the lift arms for rotating the push bars when the lift arms move in their arcuate paths, and means carried by the push bars and connected to the tractor for elevating the forward ends of the push bars when the lift arms move upwardly in their arcuate paths.

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2,648,270

## DISK PLOW WHEELED FRAME

**Walter H. Silver and John I. Cantral, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois**

**Application April 18, 1947, Serial No. 742,234**
**13 Claims. (Cl. 97—181)**

1. A disk tiller or the like, comprising a generally diagonally disposed frame member, soil-working disks, brackets rotatably receiving said disks and rigidly fixed to said frame, a laterally rigid hitch connected with said frame, front and rear wheel supports fixed to the front and rear ends of said diagonal member, respectively, said rear wheel support having a rear portion, a rear furrow wheel, axle means therefor movably connected with said rear support for movement relative thereto about a generally vertical axis, means fixedly connecting said axle means with the rear portion of said rear wheel support so that the wheel may be given a lead away from



said disks and thus act against the soil to counteract end thrust against said disks transmitted to said frame member, said connecting means including relatively shiftable parts whereby changing the position of one part relative to the other will change the angle of lead of said rear furrow wheel, front furrow and land wheels connected with said wheel supports, and means connecting said front furrow and land wheels with said wheel supports for relatively free castering movement about vertical axes relative to said frame member.

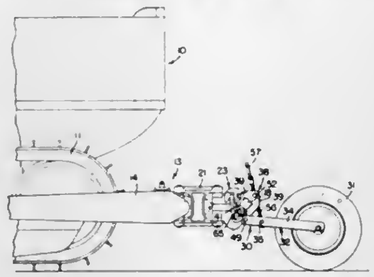
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2,648,271

## GAUGE WHEEL ATTACHMENT FOR TOOL CARRIERS

**Alfred Byron Youngs, Yakima, Wash., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois**

**Application June 18, 1948, Serial No. 33,813**
**4 Claims. (Cl. 97—189)**



4. In an agricultural machine having a tool-receiving bar, a wheel unit attachable to said bar, said gauge wheel unit comprising an arm, a wheel rotatably mounted at one end of said arm, a clamp adapted to be secured to said bar and comprising a part disposable generally vertically along one side of the bar, said part comprising a member having at one side a bar-receiving socket and at its upper portion an overhanging lip section adapted to engage over the upper portion of said bar, said member also having at its lower portion a section disposed below but generally in vertical alignment with said lip portion, means connecting the other end of said arm to said lower section, whereby one end of said arm may be supported on said tool-receiving member by said lip portion, and clamping means including means engageable with the other side of the bar and connectible with said part for clamping the latter to said bar.



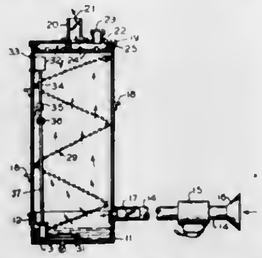
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2,648,272

## EVAPORATIVE AIR COOLER

**Willie Norton, Wichita, Kans.**

**Application July 28, 1950, Serial No. 176,431**
**2 Claims. (Cl. 98—2)**



1. An evaporative type air conditioner for automobiles comprising: a base pan adapted to hold a quantity of water; an elongated upright housing mounted on and extending above the pan and secured beneath a fender of the automobile; an air inlet conduit communicating with the lower end of the housing and extending forward therefrom to the forward end of the vehicle; a ram air scoop on the forward end of said conduit open to the atmosphere through which the vehicle passes; an upright zig-zag self supporting frame of substantially the same cross sectional size and shape as the interior of the housing, seat in said base pan and extending to the upper end of the housing, said frame being made up of hollow intercommunicating upright and horizontal members; a strip of highly absorbent large mesh fabric strung back and forth between opposite horizontal members of said frame in zig-zag arrangement forming a series of spaced air maze panels through all of which air must pass as it travels through the housing; an outlet air conduit communicating with the upper end of the housing and with the interior of the automobile; a motor driven pump mounted interiorly of the housing with its inlet open to the interior of said pan immediately adjacent the bottom thereof; a conduit connecting the outlet of said pump with the interior of said frame near the lower end thereof; and spaced outlet apertures in the horizontal frame members on which said fabric is strung, directed to deliver water directly onto said fabric at various levels within said housing.

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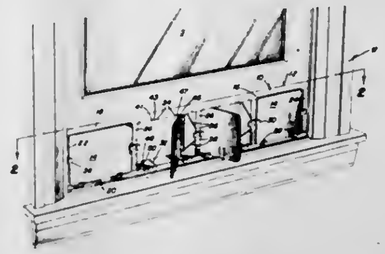
2,648,273

## WINDOW VENTILATING ATTACHMENT

**Bartolo G. Collida, St. Louis, Mo., assignor of fifty per cent to Thomas M. Gioia, St. Louis, Mo.**

**Application February 14, 1952, Serial No. 271,480**
**4 Claims. (Cl. 98—99)**

1. A window attachment comprising a rectangular frame formed by pairs of top and bottom and side members and having a plurality of intermediate upright members subdividing the frame into a series of longitudinally spaced openings, guide means on the bottom frame member, the side frame members, and the intermediate frame members at one face of the frame adapted and arranged to slidingly receive and retain a rectangular plate element over certain of the spaced openings to close off the respective opening, and the inside surfaces of the side and intermediate members being provided with opposed pairs of converging upwardly and downwardly inclined slot formations adapted to slidingly receive certain of said plate elements when said plate elements have been removed from over the openings.



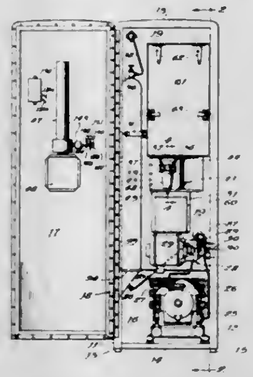
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2,648,274

## BEVERAGE VENDING MACHINE

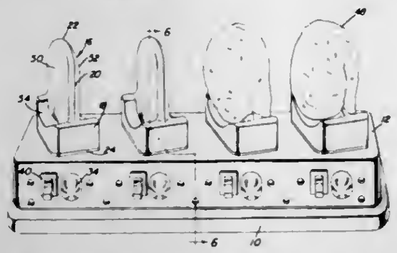
**Herbert A. Bendfelt, Oak Park, Ill., assignor to Mills Industries, Incorporated, Chicago, Ill., a corporation of Illinois**

**Application August 9, 1947, Serial No. 767,779**
**12 Claims. (Cl. 99—275)**



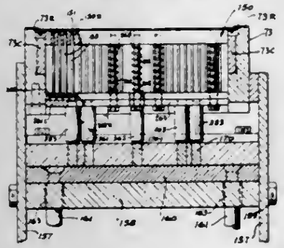
1. A beverage vending machine comprising: a cabinet having therein an insulated compartment; a storage tank for a beverage liquid; a container for a second ingredient of the beverage, said tank and said container being disposed within said insulated compartment; means for refrigerating said beverage liquid and said second ingredients including first and second cooling coils within said compartment, and a refrigerant compressor, said first coil being arranged to receive said refrigerant from said compressor and said second coil being arranged within said storage tank to receive said refrigerant from said first coil thereby causing first refrigeration at said first coil, and thereafter pre-refrigeration of the beverage liquid to substantially dispensing temperature in said storage tank during periods of infrequent use of the machine and consequent slow transfer of such liquid from said storage tank ; and means for measuring and conducting quantities of said beverage liquid and said second ingredient from said tank and said container to an accessible point of discharge at the front of the machine.

2,648,275
**BUN TOASTER**
**James C. Thompson, Fort Wayne, Ind., assignor to Man-U-Tech, Inc., Fort Wayne, Ind., a corporation of Indiana**
**Application February 7, 1950, Serial No. 142,768**
**2 Claims. (Cl. 99—419)**



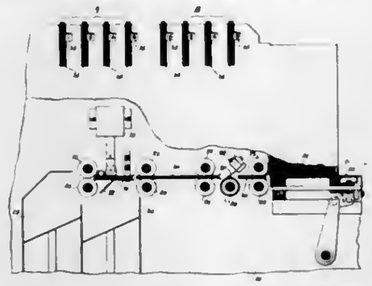
1. A toaster for insertion within a bun comprising an upright generally wedge-shaped member tapering to an edge at the top and the sides thereof for incising an end of the bun, said upright member having substantially arcuately depressed and outwardly directed lower areas terminating in an enlarged base member for limiting downward movement of the bun upon said upright member, and a substantially U-shaped integral resistance element marginally disposed within said toaster for variably heating the surfaces thereof, said arcuately depressed and outwardly directed areas tending initially to urge the interior of the bun against the sides of the upright member and subsequently to permit contraction of the bun endwise during the toasting process to draw the interior of the bun away from the sides of the toasting element to preclude over-toasting.

2,648,276
**MEANS REMOVING CARDS FROM ADDRESS PLATES**
**Walter T. Goilwitzer, Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del., a corporation of Delaware**
**Application May 14, 1951, Serial No. 226,201**
**11 Claims. (Cl. 101—1)**



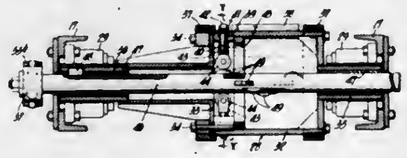
1. In a card ejecting machine through which printing and control devices, each bearing a plurality of cards held in place by retaining means in different card-mounting positions thereon, are adapted to be passed one by one, a supply magazine into which printing and control devices may be introduced, means defining an ejecting station at which such devices may be positioned, means for advancing such printing and control devices one by one and in a step-by-step manner from said magazine and into said ejecting station, and means at said ejecting station operable selectively to eject a card from any one or more of said card mounting positions of a printing and control device while such printing and control device is at rest at such ejecting station.

2,648,277
**CARD CONTROLLED WIRE PRINTING AND FEEDING MEANS**
**William Wockenfuss, Union, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company, a corporation of Michigan**
**Application December 23, 1948, Serial No. 66,904**
**9 Claims. (Cl. 101—2)**



4. In a printing machine wherein punched cards follow divergent paths after being analyzed, the combination of a print section including a print head having a multiplicity of printing elements each forming a portion of a character to be printed and selectively operable in combination with others of said head to form any one of a plurality of different complete characters, card analyzing means cooperating with said print section, means to feed cards past said analyzing means and along one or the other of said divergent paths, means controlled by said analyzing means as the cards are fed past the latter to select a combination of said printing elements, means controlled by said selecting means to operate the selected elements each time a card is analyzed, a switching device connected to said analyzing means and including adjustable data identifying means settable in accordance with data in certain cards to be analyzed, and means jointly controlled by said analyzing means and said switching device when the data in a card compares with the setting of said identifying means for directing said card along one of said paths and for directing the card along the other path when non-comparison exists between said data and said identifying means.

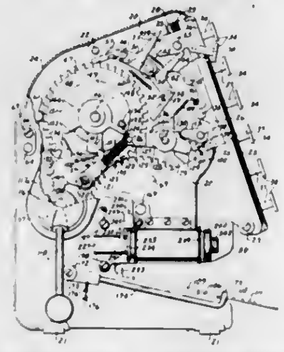
2,648,278
**APPARATUS FOR SELECTIVELY MARKING MOVING STRIP**
**Karl O. Neander, McKeesport, and Alfred Teplitz, Pittsburgh, Pa.**
**Application July 19, 1950, Serial No. 174,672**
**7 Claims. (Cl. 101—92)**



1. Apparatus for marking repeatedly a traveling strip, comprising a printing cylinder having trunnions at its ends journaled in spaced bearings, a shaft extending axially into the cylinder through one of said bearings and mounted for axial movement relative thereto, a plurality of plungers spaced circumferentially of said cylinder and mounted for radial movement therein to and from printing position, wedges on the shaft within the cylinder spaced apart axially and circumferentially of the shaft, each positioned to actuate one of said plungers selectively to printing position on axial movement of the shaft to a predetermined position, and means for moving the shaft axially.



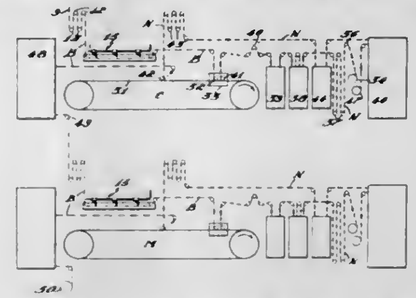
2,648,279
**TYPE WHEEL INDEXING LAUNDRY LISTING MACHINE**
**William J. Keuper, Cincinnati, Ohio, assignor to The National Marking Machine Company, Cincinnati, Ohio, a corporation of Ohio**
**Original application June 17, 1946, Serial No. 677,189. Divided and this application June 9, 1950, Serial No. 167,112**
**9 Claims. (Cl. 101—96)**



1. A laundry listing machine comprising the combination of a plurality of rotatable type wheels; a feed wheel for each type wheel and connected to drive it; a transverse shaft; a pair of pawl-carrying arms for each feed wheel pivoted on said shaft; an advance pawl pivotally mounted on one of said pawl-carrying arms and adapted to engage and advance the corresponding feed wheel one step when said arm is rocked in one direction; a return pawl pivotally mounted on the other pawl-carrying arm and adapted to engage and return the corresponding feed wheel one step when said arm is rocked in the opposite direction; a plurality of pivoted keys, one for each feed wheel, each key having associated therewith a rockable cam arm for operating said pair of pawl-carrying arms; and means operatively connecting each key with its associated cam arm so as to cause the latter to rock one or the other of said pawl-carrying arms depending upon the direction in which said key is rocked on its pivot.

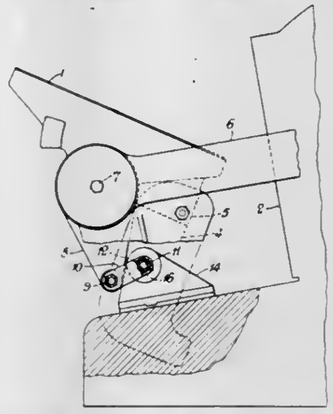
2,648,280
**METHOD OF PREWETTING IN IMBIBITION PRINTING**
**Wadsworth E. Pohl, Los Angeles, Calif., assignor to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine**
**Application July 26, 1949, Serial No. 106,797**
**2 Claims. (Cl. 101—149.1)**

1. In the art of imbibition printing cinematographic film, the method which comprises successively pressing dyed matrices against a dye-absorptive blank for successively transferring different dyes to the blank in a plurality of transfer stages in each of which the blank and one matrix are continuously fed together and thence in contact with each other along a predetermined path, after each dye transfer drying the blank,



and before each dye transfer wetting the blank to make it absorb dye more quickly, each said wetting after the first dye transfer being effected entirely by spraying liquid against the face of the blank as it approaches the matrix, whereby the blank may be rendered dye-absorptive without submerging it in a tank.

2,648,281
**MEANS FOR CONTROLLING THE MOTION OF MASSES ADAPTED TO PERFORM ROTATIONAL AND RECTILINEAR MOTION**
**Flavius Kingsford Daniels, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company**
**Application March 4, 1949, Serial No. 79,636**
**In Great Britain March 4, 1948**
**5 Claims. (Cl. 101—297)**



1. A press or the like machine, comprising a frame, a bed plate formed with a plane bearing surface and fixedly mounted on said frame, a platen having contiguous curved and plane surfaces arranged to permit simultaneous rolling and sliding motion of said platen on said plane bearing surface, a controlling linkage connecting the platen to the frame, said linkage comprising a fixed lever arm of the platen, a pin mounted in and having surface contact with said lever arm, a block slidable in and having surface contact with a straight guideway in said frame, a second pin mounted in and having sur-

face contact with said block, and links rigidly secured at their opposite ends to said pins, the surface contact of said pins and block being such that during the compound rolling and sliding motion of the platen, the said block remains buttressed by the upper end of said guideway, and when the platen reaches a transition point at which pure translational motion is required, the block moves from engagement with the upper end of said guideway, whereupon the rotational component of the compound motion ceases and the platen performs a parallel translational motion.

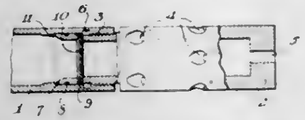
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2,648,282

## CLOSURE DEVICE

James Pershing Swed, Gibbstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application April 25, 1952, Serial No. 284,360
6 Claims. (Cl. 102—25)



1. A closure assembly for the discharge end of a reusable pressure resistant blasting tube of the type wherein the said discharge end is internally threaded which comprises a hollow discharge head in threaded engagement with said tube, a shear-disc adjacent to the interior end of said discharge head and of larger diameter than the inner diameter of said discharge head, and a sleeve within said tube adjacent the said shear-disc on the side opposite the said discharge head, said sleeve being of slightly smaller diameter than that portion of said tube and having at least one peripheral groove containing a resilient sealing element of greater thickness than the depth of said groove, and an annular ridge of a metal harder than the shear disc at the end of the sleeve adjacent to said shear-disc.

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2,648,283

## PRESSURE RESISTANT BLASTING CARTRIDGE CLOSURE ASSEMBLY

David L. Coursen, Woodstown, and Frank A. Loving, Jr., Wenonah, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 20, 1952, Serial No. 315,718
6 Claims. (Cl. 102—25)



1. A closure assembly for the discharge end of a reusable pressure-resistant blasting tube of the type wherein the said discharge end is internally threaded which comprises a hollow discharge head having an open end thereof screwed into said discharge end, a stretchable rupture element disposed within said discharge end in close proximity to said discharge head, means for retaining the edges of said rupture element and thereby preventing them from moving toward the axis of the tube under the influence of high pressure, and means for effectuating a pressure-tight seal on at least one side of said element, the supporting edge on the discharge head side of said rupture element having an inner surface forming an angle with said rupture disc of less than 90° at the point of contact.

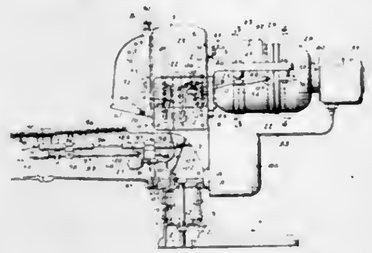
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2,648,284

## MOTOR SUSPENSION FOR OIL BURNERS AND THE LIKE

Reginald W. Beckett, Elyria, Ohio

Original application August 7, 1947, Serial No. 766,967. Divided and this application September 28, 1949, Serial No. 118,313
15 Claims. (Cl. 103—6)



1. In a pressure atomizing oil burner of the type having a power unit comprising an electric motor and a fan and a fuel pump secured to and driven by the motor, the improvement which comprises a cantilever type bracket for supporting the power unit, said bracket being secured to the housing structure of the burner and extending laterally therefrom, said bracket also having a concave underside to receive the electric motor, and means resiliently suspending the motor from spaced portions of the bracket whereby the underside of the motor is substantially unobstructed, the suspending means including elements secured to and located on opposite sides of the motor, said elements being disposed wholly below the level of the top of the motor and separately secured to spaced portions of the bracket, the motor and the bracket being generally spaced from and making connection with one another solely through said suspending means.

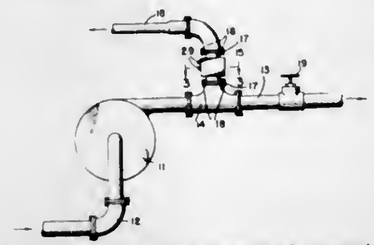
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2,648,285

## FEED PUMP LEAK-OFF SYSTEM

Sidney P. Johnson, Washington, D. C.

Application December 8, 1948, Serial No. 64,062
15 Claims. (Cl. 103—41)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. A system of a type described comprising a pumping means including a pump adapted to be operated continuously, an input pipe and an outlet pipe including a flow-controlling means, a leak-off pipe line comprising a branching section connected into said outlet pipe on the pump side of said flow-controlling means, said leak-off pipe line comprising a fitting having a downstream chamber, an upstream chamber and a connecting chamber therebetween, a first removable plug having a continuously-open orifice, said plug being between said downstream chamber and said connecting chamber, a second removable plug having a continuously-open orifice, said second plug being between said connecting chamber and said upstream chamber, said orifices of said plugs providing consecutive orifices for the flow of liquid in said leak-off pipe-system, said orifices having axes which are substantially parallel.



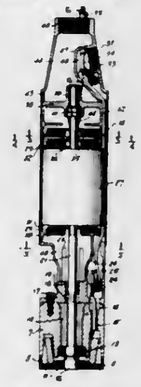
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2,648,286

## SUBMERSIBLE PUMP

Charles J. Bergh, Vandalia, Ohio, assignor to The Dayton Pump & Mfg. Co., Dayton, Ohio, a corporation of Ohio

Application July 28, 1950, Serial No. 176,496
3 Claims. (Cl. 103—87)



1. A submersible electric motor operated pump, including a cylindrical shell, a suction section and a discharge section in respective opposite ends of said shell and projecting therefrom, junction box chambers in said sections, an electric motor secured to said suction section and presenting a wire passing opening communicating with the junction box chamber in said suction chamber, pump impeller housings slidably fitting said shell stacked one upon another in said shell and retained therein by said sections, and individual slots in the peripheries of said housings cooperatively defining a longitudinally extending wire passing channel inside the shell and communicating with said junction box chambers, said slots being formed by a portion of the wall of each housing and being disposed inwardly toward the periphery of the impeller pertaining to the housing.

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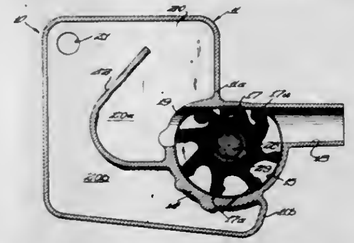
2,648,287

## PUMP

Theodore R. Thoren, Chagrin Falls, Leslie L. Aspelin, Cleveland Heights, and John F. Murray, Macedonia, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application June 15, 1949, Serial No. 99,186
11 Claims. (Cl. 103—117)

1. A flexible rotor pump comprising a casing defining a standpipe chamber and a pumping chamber and having an open end exposing said chambers, a removable cover for said open end, a compressible gasket between the cover and casing, fasteners for tightening the gasket and cover against the casing to seal the chambers from each other and to seal the casing, said pumping chamber having aligned inlet and outlet ports at the upper end thereof with the outlet port discharging into the standpipe chamber intermediate the top and bottom thereof, a baffle in the standpipe chamber underlying the outlet port and extending upwardly to a level above the outlet port to divide the chamber into a turbulent area portion and a quiescent area portion, said standpipe chamber having an outlet in the upper portion thereof, said casing having a bearing chamber axially aligned with the pumping chamber, a bearing slidable in said bearing chamber, a rotor shaft carried by said bearing, a rotor carried by said shaft in said pumping chamber



and having flexible vanes defining pumping spaces therebetween, plates bottomed in opposite ends of the pumping chamber defining a fixed dimension length therebetween and receiving the end thrust of the rotor and sealing the ends of the pumping spaces, a shaft seal between the bearing and rotor, and aligned bleeder passages in the cover and adjacent plate joining the quiescent area of the standpipe with the pumping spaces to maintain liquid therein for sealing and lubricating the rotor and minimizing expansion at the pump inlet whereby said gasket will yield to tolerance variations when the fasteners tighten the cover but said fixed end plates will prevent variations in the relationship of the rotor and plates.

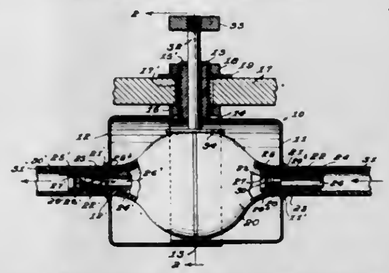
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2,648,288

## FLUID PUMP

William J. Marks, Des Moines, Iowa

Original application March 11, 1946, Serial No. 653,545. Divided and this application May 25, 1949, Serial No. 95,250
9 Claims. (Cl. 103—148)

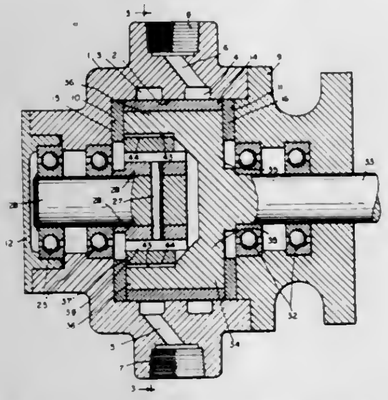


1. In a fluid pump, a casing comprising a pair of sections having cylindrical side walls and opposed end walls, the sections having adjacent free end portions of their cylindrical walls in readily separable telescoped relation, an externally threaded stud projecting radially from the cylindrical wall of the inner section adjacent its free end and rigidly secured thereto, an elongated

slot in the cylindrical wall of the outer section and opening through the free end thereof and freely receiving the stud in the telescoped position of the sections, a nut on the stud externally of the outer section for releasably binding the telescoped walls into frictional engagement, a resilient bulb disposed within the casing having valve controlled inlet and outlet portions extending through said end walls, said stud having an axial bore aligned with an opening in the cylindrical wall of the inner section, and a manually operable plunger rod extending through said bore and opening and having a bulb engaging disk on its inner end..

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**2,648,289**
**ROTARY PUMP**
**James P. Johnson, Shaker Heights, Ohio**
**Application January 18, 1950, Serial No. 139,261**
**13 Claims. (Cl. 103—161)**

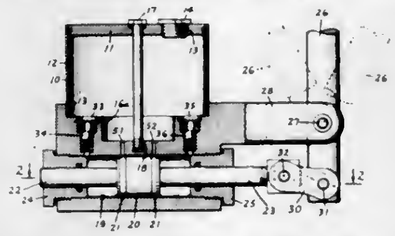


1. A rotary pump comprising a casing provided with a chamber and fluid inlet and discharge ports leading into such chamber, and a pump assembly rotatable within such chamber and dividing such chamber into a plurality of spaces which alternately increase and decrease in size and alternately communicate with such ports during rotation of said assembly, the peripheral wall of such chamber including intersecting sections of circular transverse cross-section struck from spaced and parallel axes, and said assembly comprising intersecting members mounted in said casing for rotation about axes respectively coinciding with the axes of the aforesaid sections of the peripheral wall of such chamber and of diameter substantially the same as the respective sections, and a coupling block having a non-rotatable and transversely slidable connection with said members and forming therewith and with such chamber such plurality of spaces, and drive means for rotating said assembly in said casing.

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**2,648,290**
**SELECTOR PUMP**
**Benjamin N. Ashton and Eugene V. Barkow, Kingston, N. Y., assignors to Electrol Incorporated, Kingston, N. Y., a corporation of Delaware**
**Application February 15, 1951, Serial No. 211,047**
**6 Claims. (Cl. 103—175)**

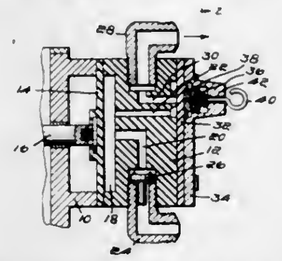
5. A selector pump comprising a cylinder, a piston reciprocable in said cylinder, a reservoir for liquid adjacent to said cylinder, means to reciprocate said piston in said cylinder, means at opposite ends of said cylinder to supply liquid to said cylinder from said reservoir and discharge it from said cylinder through separate outlets in



response to reciprocation of said piston, and means including ports in the mid-portion of said cylinder covered and uncovered by said piston for returning liquid from one of said outlets to said reservoir as liquid is discharged from said cylinder through the other outlet.

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**2,648,291**
**WATER PURIFICATION UNIT**
**Clifford B. Moller, Boston, Mass.**
**Application October 1, 1949, Serial No. 119,163**
**2 Claims. (Cl. 103—203)**



1. In a pump for feeding a water purification chemical, a casing having a pumping chamber, an outlet passage leading from said pumping chamber, a second outlet passage in said casing adjacent said first passage and leading to the exterior of the casing, a diaphragm valve mounted to close both said outlet passages, spring means effective to hold such diaphragm valve in closed position during the intake stroke of the pump and adapted to yield and permit opening of the valve on the delivery stroke of the pump, and a finger grip attached to said diaphragm valve and extending to the exterior of said pump casing, whereby said finger grip may be pulled to open the diaphragm valve to permit priming of the pump.

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**2,648,292**
**RAILWAY TRAIN**
**Herbert D. Euwer, Kirkwood, Mo., and Harold G. Anderson, Fort Lee, N. J., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application June 22, 1948, Serial No. 34,408**
**2 Claims. (Cl. 105—4)**



1. In a trailer type railway train, a plurality of relatively short passenger cars free of exit and



entrance doorways in the side walls and a relatively short service car coupled therebetween, said service car having a center aisle and service compartments between the aisle and its sides, each of said cars being supported on an axle carrying a pair of wheels extending partially beyond the rear end thereof, said cars each having a body with passageways through the end walls and an aisle extending between said passageways, said flooring being in a plane adjacent that of the axes of the wheels, partial wheel wells at each end of each of the sides of the cars for mutual association with partial wheel wells of adjacent cars to provide well structures for housing the wheels when the cars are coupled together, said wheel well structures in said cars extending a substantial distance above the flooring, said end wall passageways being the only means through which passengers can pass from car to car, seats extending continuously along the sides of the passenger cars from one partial wheel well to the other, said service car end passageways registering with and being in alignment with the passageways through the end walls of the passenger cars, said service car having an inlet and exit door in at least one side wall intermediate the partial wheel housings, whereby passenger entrance and exit on and off of the train is solely through said side door of the service car, thereby increasing seating capacity in the passenger cars equal to the eliminated side entrance.

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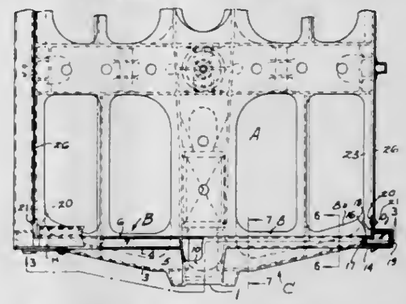
**2,648,293**
**CONVERTIBLE RAILWAY CAR**
**George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois**
**Application December 3, 1948, Serial No. 63,360**
**7 Claims. (Cl. 105—243)**



1. In a convertible car of the character described, a center sill, side walls spaced from said center sill, body bolsters near the ends of said center sill and side walls to support the same, a flat floor section at each end of the car, an intervening flat floor section above said center sill and between said side walls, said intervening flat floor section being spaced from said end floor sections to provide with said center sill two pairs of hopper openings, cross beam members extending underneath said floor sections along the ends of said hopper openings between the car sides and said center sill and secured to opposite sides of the latter, side stakes secured to said side walls at the ends of said cross beam members, lower beam members underneath and secured to said center sill and extending along the hopper opening defining edges of said end floor sections, means interconnecting the respective ends of said lower beam members and said cross beam members with the lower ends of said side stakes, pairs of V-arranged inner and outer doors pivoted on and between said lower beam members for closing said hopper openings from the underside thereof, operating means for opening and closing said doors, and a pair of rockably mounted floor sections for each of said pairs of hopper openings disposed in one position so as to close said hopper openings from above and provide a flat bottomed car and in another position to provide inclined hopper end walls with the adjacent floor sections forming a transverse ridge overlying said intervening flat floor section and the remaining floor sections overlying the respective end portions of said end floor sections.

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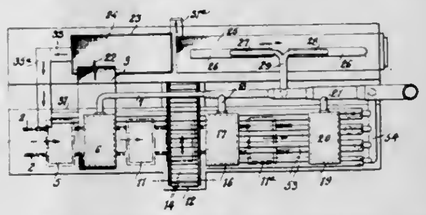
**2,648,294**
**RAILWAY GONDOLA CAR STRUCTURE**
**William M. Sheehan, Philadelphia, Pa., and Frank K. Mitchell, Dobbs Ferry, N. Y.; said Sheehan assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware**
**Application December 5, 1951, Serial No. 259,924**
**19 Claims. (Cl. 105—406)**



1. In a railway vehicle end structure, an end sill including an end wall seat and brace member comprising upright webs abreast of each other and spaced apart transversely of the sill, and a horizontal web connecting said upright webs, one of said upright webs being straight and continuous substantially from end to end of the member and the other upright web being substantially deeper than the first-mentioned upright web and being offset between its upper and lower edges with its upper portion paralleling the first-mentioned upright web from the member ends towards the middle of the member and with the offset shoulder between the portions increasing in width from the member ends to the middle of the member.

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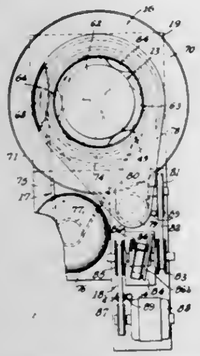
**2,648,295**
**CONFECTIONERY MACHINE**
**Joseph Greenberg, New Rochelle, and George S. Perkins, New York, N. Y., assignors to National Equipment Corporation, New York, N. Y., a corporation of New York**
**Application July 29, 1950, Serial No. 176,614**
**2 Claims. (Cl. 107—3)**



1. In a confectionary machine, a dumping station at which trays containing mold starch and candies molded therein are emptied, a conveyor on which the contents of the trays are deposited, a plurality of superimposed screens on which the starch and confections are deposited by the conveyor, an outlet conveyor adjacent to the lowermost screen for carrying off materials collected by said lowermost screen, a series of feeding conveyors starting at a point below the lowermost screen for receiving starch sifted through

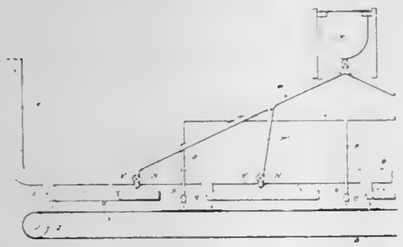
said lowermost screen, a filling station for filling trays with starch brought to said station by the feeding conveyors, the outlet end of said conveyors terminating at said filling station, and means along the route of said feeding conveyors for conditioning the starch carried by said conveyors.

**2,648,296**
**PELLET MILL**
**Sennet A. Oliver, Montebello, Calif.**
**Application May 29, 1948, Serial No. 30,089**
**11 Claims. (Cl. 107—8)**



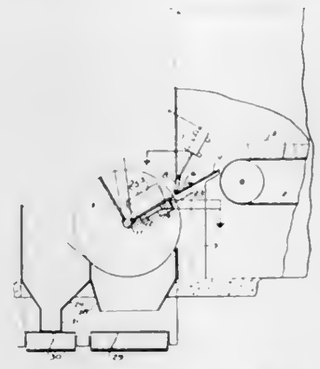
9. A mill of the character described comprising a die ring, impactor means for pressing material through the die ring from the inside through the outside thereof, means for rotating said impactor means at a constant speed, cutter means for severing the material extruded from the die ring to form pellets, and variable speed drive means for rotating the cutter means relatively to the die ring to control the length of said pellets, said latter means comprising an electric motor, and an adjustable drive connection between said motor and the cutter means, said adjustable drive connection embodying a pair of pulleys and means for simultaneously increasing the effective operative size of one of said pulleys and decreasing the effective operative size of the other.

**2,648,297**
**METHOD AND APPARATUS FOR THE MANUFACTURE OF CANDY**
**William S. Cloud, Wilmette, Ill.**
**Application November 10, 1950, Serial No. 195,046**
**11 Claims. (Cl. 107—54)**



1. The method of making candy including flowing by gravity a bank of individual solid strings from a viscous mass of boiled, ready-to-congeal, threadable candy syrup, reducing the strings in diameter to thread-like character by gravity draw, congealing the threads separately, and diverting the threads to a laterally-extending plane so as to superimpose the individual threads on one another to form a continuous laminated layer of candy stock.

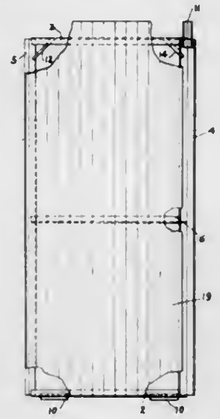
**2,648,298**
**MACHINE FOR UNLOADING CONTINUOUS BAKING OVENS**
**Austin A. Holbeck, Detroit, Mich.**
**Application September 27, 1950, Serial No. 187,058**
**11 Claims. (Cl. 107—57)**



1. An automatic unloader for use with baking ovens delivering the baked bread or other products by a conveyor in sets, having in combination an inclined hearth for registering with the delivery end of the conveyor and onto which the bread or baked products slide as the same is passed off the end of the conveyor, means for temporarily arresting the sliding products on the hearth to await the unloader, an unloader wheel turning in synchronism with the conveyor and having a shelf arranged to register at one time with the hearth at which time the arresting means is released to allow the bread or baked products to slide onto the shelf of the unloader, means on the shelf for holding the pans thereto while the shelf is revolved to positions where the pans drop off, a vibrator on the shelf to release the products from the pans and allow the dumping of the bread or baked products from the pans as the wheel revolves, the pan holding means releasing the pans as the wheel travels further to drop the pans at a different location from where the bread or baked products were released.

**2,648,299**
**PREFABRICATED ROOF SLAB**
**Charles D. Iddings, Jack R. Bechtold, and Paul E. Borg, Tulsa, Okla., assignors to Lee C. Moore Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application September 6, 1951, Serial No. 245,328**
**8 Claims. (Cl. 108—13)**

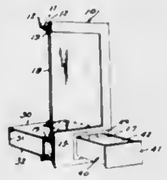
1. A plurality of prefabricated roof slabs adapted to be laid with overlapping sides, each slab comprising a rectangular frame having end members connected by side members in the form of angle bars, the bar at one side of the frame having upwardly diverging sides forming a gutter and the bar at the opposite side of the frame having downwardly diverging sides forming a hook, and sheet material covering the frame and fastened thereto, the hook bar of each slab being adapted to receive and fit over the outer side of



the gutter bar of an adjoining slab to connect the slabs together.

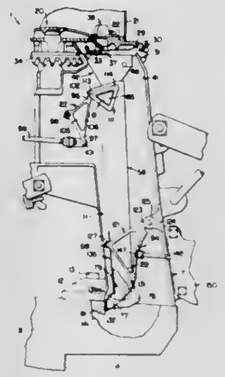


**2,648,300**
**TELLER'S WINDOW**
**Eugene C. Beedle, Bay Village, Ohio, assignor to The Guardian Burglar Proof Equipment Company, Cleveland, Ohio, a corporation of Ohio**
**Application April 3, 1951, Serial No. 219,046**
**7 Claims. (Cl. 109—19)**



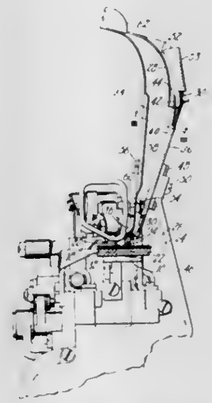
5. A teller's window comprising, a window frame adapted to be inset in a vertical wall and having an opening extending therethrough, a transparent member carried by said frame and closing said opening, a second opening extending through said frame and positioned below the first named opening, an open top receptacle having a front wall adapted to close said second-named opening, said receptacle being mounted in said frame for movement from one side or the other thereof, a substantially horizontally extending table extending inward from said frame below the first-named opening and above the second-named opening, said receptacle adapted to extend inward from said frame beneath said table, said table having an opening therein registering with the open top of said receptacle, a closure movable to and from a position to close the opening in the table, said receptacle being slidably mounted in said frame for movement to a forward position with its open top accessible from the exterior of the frame to an inward position with its open top accessible only through the opening in said table top, and means accessible from the inner face of said frame to actuate said receptacle.

**2,648,301**
**PLANTER**
**Charles H. White and William P. Oehler, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application December 19, 1947, Serial No. 792,642**
**7 Claims. (Cl. 111—51)**



1. In a planter including an oscillatable seed tube and a supporting member pivotally connected therewith by means of a transverse pivot pin, a combined pin-receiving member and seed-ejecting toe section comprising an elongated part having a transverse generally hemi-cylindrical pivot pin embracing section adjacent one end and a curved seed-engaging section adjacent the other end.

**2,648,302**
**GUIDE FOR TWO-PIECE PLATFORM WRAPPER STRIPS**
**Ralph E. Pearsall, Gloucester, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application January 11, 1952, Serial No. 266,011**
**10 Claims. (Cl. 112—52)**

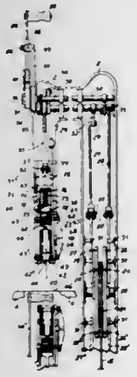


1. A guide for a platform wrapper strip formed in two pieces of different width, the pieces of which have one lateral edge of each alined with one lateral edge of the other and are fastened

together in overlapping relationship along their alined edges with freedom for flexure angularly toward and from each other along their remaining overlapping areas, said guide having wide and narrow angularly disposed sections, in combination with means for deflecting one piece of the strip from the other and for directing the strip from one section of the guide to the other as it passes through the respective guide sections.

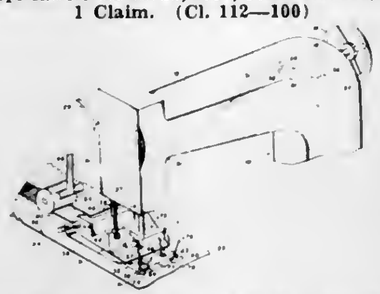
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**2,648,303**
**EMBROIDERING MACHINE**
**Eugenio Gerber, Buenos Aires, Argentina; Marcelo Sanchez Sorondo, curator of the estate of said Eugenio Gerber, deceased, assignor to Gerber, Sociedad de Responsabilidad Limitada, Buenos Aires, Argentina**
**Application February 23, 1952, Serial No. 272,947**
**6 Claims. (Cl. 112—98)**



1. Embroidering machine, comprising in combination at least one pair of co-operating mechanical embroidering hands, each provided with a rotative needle holder capable of handling a threaded embroidering needle having the needle eye provided at one end thereof and of inverting the direction of the needle after each passage through the cloth to be embroidered; a thread-pulling device associated with each embroidering hand, and a driving mechanism for reciprocating the embroidering hands and for oscillating the thread-pulling device; transmission means provided in each embroidering hand for imparting to its needle holder one half of a revolution derived from the linear movement of the reciprocating embroidering hand; a spring device incorporated in each embroidering hand for operating a lever and transmitting therethrough to the needle holder a strong pressure for firmly grasping the embroidering needle, a weak pressure for permitting a longitudinal adjustment of the needle in the needle holder and no pressure at all for permitting the needle to be taken out of the needle holder; the said driving mechanism comprising a first eccentric for the embroidering hands and a second eccentric for the thread-pulling devices; a pair of crank shafts for the pairs of co-operating embroidering hands and a pair of crank shafts for the pairs of co-operating thread-pulling devices, and connecting rods between said eccentrics and said crank shafts as well as between the latter and the embroidering hands and the thread-pulling devices, respectively.

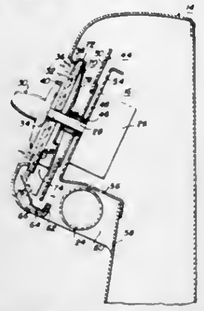
**2,648,304**
**STITCHING MECHANISM FOR JOINING CORDS OR THE LIKE WITH A FABRIC**
**Louis Brumberger, New Haven, Conn., assignor to Mercury Sportswear, Inc., New Haven, Conn., a corporation of Connecticut**
**Application March 22, 1950, Serial No. 151,160**
**1 Claim. (Cl. 112—100)**



Mechanism for securing a strand against the surface of a fabric piece comprising: a stitching needle, means to cause said needle to reciprocate to execute successive stitching strokes, feed means to advance a fabric piece longitudinally through the area in which said needle operates, a presser member having an elongated strand guiding opening to receive the needle, said presser member being positioned above said feed means, means to cause movement of said presser member vertically to release a fabric piece, an apertured plate superimposed above said presser member, means to cause vertical movement of said plate with said member, said plate having a longitudinal opening in advance of said guide opening in said presser member and being superimposed to overlap said presser member to receive a strand and to permit feeding of the strand onto an advancing fabric piece through said opening in said presser member, and timed means to horizontally reciprocate said plate and the longitudinal opening therein with respect to each successive stitching stroke of said needle and an advancing fabric piece whereby said strand is fed alternately on opposite sides of said operating needle, the opening in said presser member being of a width to limit feeding of said strand laterally.

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**2,648,305**
**ILLUMINATED INDICATING CONTROL**
**Theodore C. Appleman, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 25, 1950, Serial No. 146,357**
**10 Claims. (Cl. 116—133)**

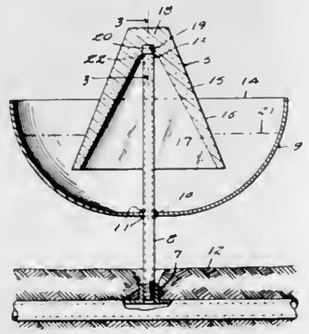


1. An indicating device comprising a fixed transparent dial, a rotatable shaft extending through said dial, a knob disposed in front of said dial and mounted on said shaft to effect rotation of the latter, a multicolored translucent disc disposed behind said dial and coaxially mounted on said shaft for joint rotation therewith, a light emitting element disposed rearwardly of said disc, and means operatively associated with said dial for receiving the light from said element after being modified by said disc and transmitting the same through the dial in edgewise direction.



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**2,648,306**
**DRINKING FOUNTAIN VALVE**
**William L. Adkins, Downey, Calif.**
**Application May 31, 1950, Serial No. 165,272**
**7 Claims. (Cl. 119—75)**

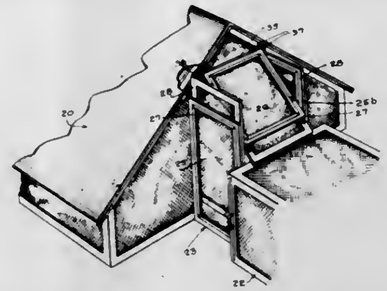


1. In combination with a drinking receptacle having an open top and a supply pipe extending upwardly through the receptacle and having an upwardly opening discharge end, a valve body having an upper closed end, said valve body having a downwardly opening hollow interior into which the upper end of the water supply pipe extends, said valve body having a downwardly facing substantially flat surface adjacent its upper extremity and remote to the lower end of the valve body defining the upper closed end of the hollow interior, said surface normally resting on and closing the upper discharge end of the supply pipe, said valve body being supported solely by the supply pipe and being of sufficient weight to withstand the pressure in the supply pipe for normally closing and sealing the discharge end thereof, the lower end of said valve body extending into the receptacle and being spaced therefrom for rocking movement of the valve body on the discharge end of the supply pipe as a fulcrum for unsealing said discharge end to admit water to the receptacle, the preponderance of the weight of the valve body being disposed below the discharge end of the supply pipe whereby the valve body is gravity urged from a tilted open position to an upright closed position.

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**2,648,307**
**CHICKEN CHUTE**
**Maurice E. Bowers, Somerville, N. J.**
**Application August 9, 1950, Serial No. 178,437**
**2 Claims. (Cl. 119—82)**

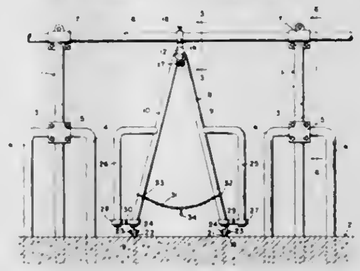
1. A chicken chute for use between a brooder and a crate, said chute comprising two substantially vertical side walls and a roof extending therebetween, each of said side walls comprising a pair of screened frames in adjustable face to face engagement, said side walls having adjacent the bottom portions of the lowermost of said frames ground penetrating means and on complementary top corner portions of the uppermost of said frames a pair of opposed bearing means, said roof comprising a pair of screened frames in adjustable face to face engagement and having along an end of one of said frames oppositely project-



ing pivot members respectively removably received by said bearing means whereby said chute may abut a side of each said brooder and crate and form a closed passage between openings in said sides of the brooder and crate regardless of the positions of said openings.

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**2,648,308**
**STANCHION FOR DOMESTIC ANIMALS**
**Daniel E. Ogden, Hamilton, N. Y.**
**Application January 21, 1952, Serial No. 267,425**
**2 Claims. (Cl. 119—147)**



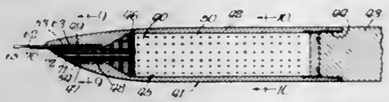
1. A stanchion construction comprising a stanchion yoke having diverging arms forming an inverted V, said arms having lower ends, means operatively associated with said lower ends for affixing the ends of said arms to prevent swinging movements of said arms, clamping means adjustably engaging the stanchion yoke apex for adjustably fixing the position of said stanchion yoke apex in a direction transversely of the plane of said yoke arms, and a chain slidably mounted on said diverging arms, and a stanchion headguard mounted on each stanchion arm, said headguards having means engaging said yoke arms for limiting the movement of said chain on said arms.

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**2,648,309**
**FOUNTAIN PEN**
**Floyd E. Bartell, Ann Arbor, Mich., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin**
**Application September 23, 1950, Serial No. 186,415**
**21 Claims. (Cl. 120—51)**

11. A fountain pen comprising a body having a reservoir section and a feed section forwardly of said reservoir section, a writing nib mounted

in said feed section, and a capillary reservoir-and-feed element disposed in said reservoir section and including a chamber section formed from spirally rolled sheet material having turns thereof spaced apart to define therebetween a capillary ink storage space, and a core section formed from spirally rolled sheet material having turns thereof spaced apart to define therebe-



tween a capillary ink storage space, said core section being disposed in said chamber section with the space thereof connected to the space of the chamber section and with said core section projecting forwardly beyond the forward ends of the turns outwardly thereof and extending forwardly into said feed section with the space defined by the turns thereof connected in ink feeding relation to said writing element.

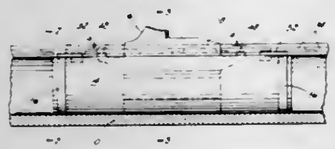
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2,648,310

## LINK-PLATE SEAL FOR CATAPULT SLOTTED CYLINDERS

Walter S. Baer, Sr., Yeadon, Pa.

Application June 23, 1952, Serial No. 295,135
7 Claims. (Cl. 121—1)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a propelling device including a cylinder having a longitudinally extending slot therein and a piston slidable in the cylinder having an arm projecting through the slot to the outside of the cylinder for operating connection to an object to be propelled, means for sealing the slot to form a closed chamber comprising a series of connected links normally positioned to close the slot, said links being deflectable laterally of the slot by engagement with the arm as the latter travels along the slot, and means carried by the piston and acting in trailing relation to the arm for returning the links to slot closing position.

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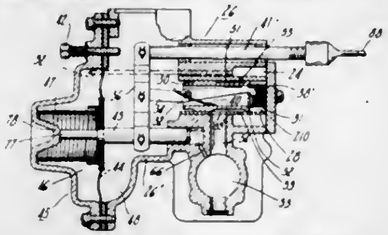
2,648,311

## VALVE MECHANISM

Harold W. Price, Pasadena, Calif., and Edward E. Hupp, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Original application April 8, 1947, Serial No. 740,158. Divided and this application September 28, 1951, Serial No. 248,742
6 Claims. (Cl. 121—38)

1. A valve unit adapted to control the ingress and egress of power fluid into and from a pressure differential operated motor comprising a casing constructed to provide a plurality of ducts including a duct adapted to be connected to a source of vacuum, a three way valve mechanism, including a movable valve member, housed within the casing, means, housed within the casing, for actuating the movable valve member said means including a floating lever member, a manually operated pin member connected to said lever member, a second pin member connected to said lever member, another pin member interconnecting the valve member and lever member and a pressure differential operated motor for actuating the second pin member; a valve



within the casing for controlling the flow of power fluid through the aforementioned duct connected to a source of vacuum and thereby cut into operation or disable the valve unit as a control means, and means, also housed within the casing, for controlling the operation of the latter valve.

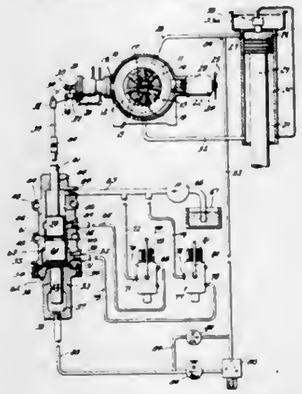
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2,648,312

## CONTROL OPERATOR FOR HYDRAULIC PUMPS

Warren R. Tucker and Glen Richard Pittman, Mount Gilead, Ohio, assignors to H-P-M Development Corporation, Mount Gilead, Ohio, a corporation of Delaware

Application November 28, 1951, Serial No. 258,708
1 Claim. (Cl. 121—38)



A hydraulic control operator comprising a casing formed with a first cylinder bore, a second relatively diametrically enlarged cylinder bore communicating with and forming a longitudinal continuation of said first cylinder bore, a pressure chamber communicating with the second cylinder bore at the end thereof opposite the first cylinder bore, a first inlet-outlet port communicating with the first cylinder bore, a second inlet-outlet port communicating with the second cylinder bore at the end thereof communicating with the first cylinder bore and a third inlet-outlet port communicating with said pressure chamber; a first piston reciprocable in the first bore of said casing and having a relatively reduced diameter actuator rod extending axially outwardly from one end thereof and outwardly through said casing, said first piston being movable differentially within the first cylinder bore of said casing in response to the introduction of



pressure fluid within the first and second ports of said casing; a second piston reciprocable in the second bore of said casing and having a first end surface arranged to abut the end of said first piston opposite the actuator rod and a second diametrically enlarged end portion extending within the pressure chamber of said casing, said second piston being operable, in response to the introduction of fluid pressure within the third port of said casing to move said first piston and its actuator rod in opposition to fluid pressures exerted upon said first piston; and piston-cylinder means connected with said casing and closing one end of the pressure chamber formed therein, said means comprising a fluid-pressure-responsive piston of smaller diameter than said first and second pistons and arranged in axially abutting relation to said second piston and movable to shift said first and second pistons and the actuator rod longitudinally of said casing.

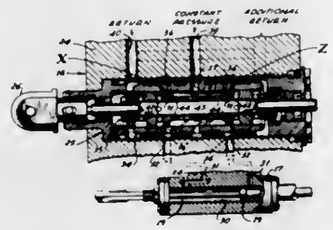
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2,648,313

## SERVO VALVE BYPASS

John R. Clifton, Rolling Hills, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California

Application June 9, 1952, Serial No. 292,411
4 Claims. (Cl. 121—46.5)



1. In a hydraulic control system of the character described including a neutral leakage valve, a hollow sleeve fixed in said valve and having a fluid pressure inlet therethrough, said fluid pressure inlet comprising a plurality of relatively large, radially and circumferentionally aligned holes through the wall of said sleeve, a fluid outlet from the interior of said sleeve around an end thereof, two operating cylinder passages through said sleeve on opposite sides of said pressure inlet, each of said cylinder passages consisting of a plurality of extremely small metering holes positioned radially through said sleeve around the periphery thereof and all staggered relative to each other lengthwise of said sleeve, a hollow spool member matching the interior of said sleeve and movable in either direction from a neutral position, the interior of said spool communicating with the return outlet of said valve, two metering lands on said spool and contacting the interior of said sleeve and having the two outer edges thereof completely square cornered, the spacing of the center lines of said lands equaling the spacing of the center lines of the cylinder passages, said pressure inlet always communicating with one side of each metering land, and said fluid outlet always communicating with the other side of each metering land; means for reducing rate gain in said system, comprising means associated with each of said metering lands and movable therewith over said metering holes to by-pass a portion of fluid from said pressure inlet directly into said fluid outlet.

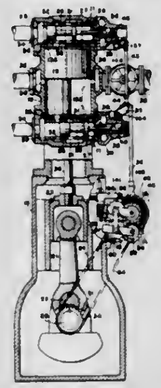


2,648,314

## VALVE ACTUATOR

Allan O. Carpenter, Corning, and Charles E. Blank, Painted Post, N. Y., assignors to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey

Application June 20, 1950, Serial No. 169,108
8 Claims. (Cl. 121—171)



1. A valve actuating mechanism comprising, a pair of shafts rotating at the same speed, an eccentric encircling one of said shafts, a driving connection between the first said shaft and the eccentric and slidably engaged to the eccentric to permit transverse movement of the eccentric with respect to the first said shaft, a shifting connection between the eccentric and the other said shaft for causing such transverse movement of the eccentric whenever the relative rotational speed between the shafts is varied, and means connected between said shafts for varying the relative rotational speed between said shafts.

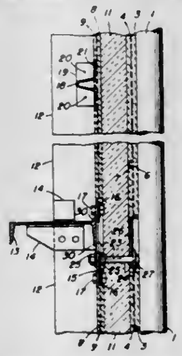
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2,648,315

## BOILER FURNACE WALL CONSTRUCTION

William J. Kunz, Port Washington, N. Y., assignor to Combustion Engineering, Inc., a corporation of Delaware

Application January 22, 1947, Serial No. 723,644
4 Claims. (Cl. 122—6)



2. A furnace wall comprising a layer of parallel side by side tubes making up the inner surface thereof, a reinforced plastic refractory slab supported from and positioned against the back of these tubes and having expansion characteristics substantially matching those of the tubes, a second reinforced plastic slab spaced outwardly

of the first mentioned slab, heat insulation disposed in the space between the two slabs, outer support structure supported independently of the tubes and secured to the reinforcing of the outer slab thereby supporting the same independently of the tubes, and means effectively secured to the outer support structure and associated with said heat insulation for supporting the same from said structure.

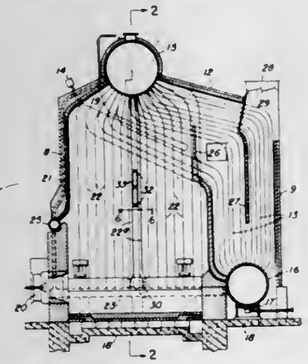
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**2,648,316**

## SUPPORT FOR STEAM GENERATOR DRUMS

**Leonard J. Marshall, Oak Ridge, Tenn., assignor to Combustion Engineering, Inc., a corporation of Delaware**

**Application November 22, 1947, Serial No. 787,500**
**3 Claims. (Cl. 122—331)**



1. In a steam generator the combination of a furnace chamber which includes a side wall and which contains hot combustion gases; an upper steam and water drum crossing said side wall at the chamber top; a header extending along the side wall beneath the drum; bottom supporting means for the header; at least two inner upright steam and water riser tubes extending from the header substantially straight upwardly along the inner heated face of said side wall into said drum and absorbing heat from said furnace chamber by direct contact with said hot combustion gases; at least two outer upright water downcomer tubes extending downwardly from the drum in substantial alignment with said riser tubes but along the outer relatively cool portion of said side wall and thence into said header, said downcomer tubes being shielded from the heat of said furnace chamber by said side wall and being free of direct contact with said hot combustion gases; and means for mechanically interbracing each of said outer cool water downcomer tubes with one of said inner heated riser tubes and the two downcomer tubes with each other whereby to form those tubes into a steam and water cooled drum supporting column of high stiffness and enhanced load carrying capacity.

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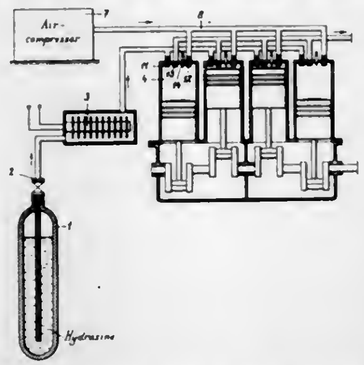
**2,648,317**

## OPERATION OF COMBUSTION MOTORS BY HYDRAZINE

**Libor Mikulášek and Milan Strnad, Brunn, Czechoslovakia**

**Application February 2, 1948, Serial No. 5,897**
**In Czechoslovakia February 19, 1946**
**7 Claims. (Cl. 123—1)**

1. A method of operating a power engine by means of hydrazine comprising the steps: taking combustible matter substantially containing hydrazine to a closed chamber in connection with said engine, cracking said combustible matter into mainly its constituents by ignition, such as to impart an impulsion of kinetic energy to suitable




parts of said engine, then adding oxidizer, and burning said mixture of said constituents and oxidizer within a closed space in connection with said engine, such as to impart another impulsion of kinetic energy to suitable parts of said engine.

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**2,648,318**

## ROTARY VALVE CONTROLLED MULTICYLINDER INTERNAL-COMBUSTION ENGINE

**Wolf-Dieter Bensinger, Muhlacker, Wurttemberg, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany**

**Application September 16, 1949, Serial No. 116,023**
**In Germany October 1, 1948**
**12 Claims. (Cl. 123—59)**



1. Control mechanism for the intake and exhaust ports of the in-line cylinders of an internal combustion engine having cylinders in a number which is a multiple of three comprising a pair of similar interchangeable rotary valves for each three cylinders positioned eccentrically with respect to the cylinders, the cylinders having intake and exhaust ports so arranged that both ports of an end one of said three cylinders are controlled by a first valve of said pair, both ports of the other end cylinder being controlled by the second valve of said pair, and at least one port of the intermediate cylinder being controlled by said first valve.

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**2,648,319**

## VALVE ROTATING DEVICE

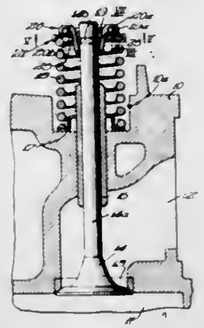
**Eldon K. Ralston, Cleveland Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**

**Application June 9, 1949, Serial No. 98,039**
**11 Claims. (Cl. 123—90)**

11. A valve rotating unit of the type adapted to be interposed between a valve spring and a valve stem of a spring loaded poppet valve comprising, an annular retainer adapted to be connected to a valve stem, a deflectable resilient



ring seating against the valve spring, said retainer having a plurality of circumferentially spaced open faced inclined raceways adjacent said ring and each raceway being provided with a spring biased shiftable element movable in each corresponding raceway, said shiftable elements being confined in said raceways by said ring, said ring adapted to transmit normal spring loading



directly to said retainer but being deflectable in response to increased load to bow over said shiftable elements, whereby said retainer will be rotated relative to said ring by said shiftable elements, and retaining means cooperating between said ring and said retainer to preclude inadvertent disassembly of the valve rotating unit.

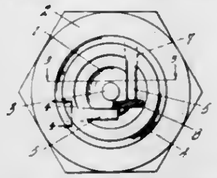
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**2,648,320**

## SPARK PLUG

**Harold P. Phillips and Rex J. L. Dutterer, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan**

**Application October 8, 1951, Serial No. 250,266**
**2 Claims. (Cl. 123—169)**



1. A spark plug including an insulator and an insulated electrode carried thereby and projecting from its inner end, a tubular metallic shell for said insulator, the insulated electrode being supported centrally of and terminating within the shell, the shell having angularly spaced slots in the wall thereof extending axially from its inner end edge, and bendable ground electrodes of flat section disposed vertically edgewise with their outer ends in the slots and weldingly bonded to the walls thereof and with their inner ends free and positioned within the shell and guarded thereby and in side overlapping relation to the insulated electrode and laterally bendably adjustable relative thereto, said ground electrodes being angularly disposed relative to each other with their free ends in spaced, nonoverlapping offset relation to enable a tool being introduced between their ends and fulcrumly positioned on the free end of a selected electrode and in engagement with the inner side of the free end of the adjacent electrode to facilitate the outward adjustment of the ground electrodes relative to the insulated electrode, the free ends of the ground electrodes being spaced inwardly from the shell to facilitate the inward adjustment thereof with a tool in fulcruming engagement with the interior of the shell.

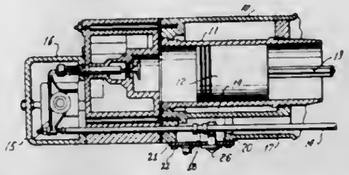
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**2,648,321**

## COMPRESSION RELIEVING STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES

**John C. Sionneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware**

**Application December 13, 1947, Serial No. 791,484**
**5 Claims. (Cl. 123—182)**



1. An engine including, a cylinder jacket, a cylinder within and spaced from the jacket, an intake valve, a push rod for the valve extending between the cylinder and the jacket, a shaft extending through the jacket, a handle on the outer end of the shaft, a cam eccentrically mounted on the inner end of the shaft, and means carried by the push rod adapted to be engaged by the cam to move the rod and its valve to an open position.

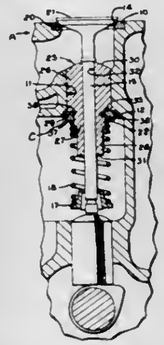
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**2,648,322**

## REPLACEMENT GUIDE FOR POPPET VALVE STEMS

**Charles C. Carter, Lubbock, Tex.**

**Application May 7, 1952, Serial No. 286,533**
**3 Claims. (Cl. 123—188)**

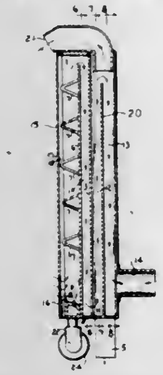


3. For use in an internal combustion engine cylinder block of the type provided with a circular poppet valve seat and axially aligned valve stem guide bore having diameters sufficiently large to permit those parts of the poppet valve system comprising the valve stem, a loosely fitting valve stem guide, spring retainer on the stem and expansion coil spring normally compressed between the spring retainer and guide, to be slidably removed, while in assembled condition, through said valve seat and valve stem guide bore; the improvement which comprises a replacement guide through which the valve stem extends, comprising a cylindrical body portion having a force fit in said bore, with its lower end substantially flush with the bottom end of said bore, and a depending sleeve portion of reduced diameter

extending from the lower end of said body portion and surrounding the valve stem, whereby a downwardly facing shoulder is presented at the bottom of the body portion and surrounding said sleeve, and a combination spacing and retaining element against which the upper end portion of the valve spring abuts, said spacing and retaining element engaging said shoulder and the surface of the block beneath said bore, and said spacing and retaining element of a thickness to retain the valve spring in normal compressed condition between it and the spring retainer.

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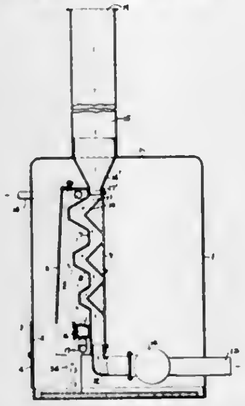
**2,648,323**
**GAS FIRED AIR HEATER**
**Edward Kent, Detroit, Mich., assignor, by direct and mesne assignments, of twenty-two per cent to Charles E. Wisner, twenty-two per cent to Clarence J. McLeod, and twenty per cent to Carlton F. Brown**
**Application March 22, 1948, Serial No. 16,291**
**1 Claim. (Cl. 126—90)**



An air conditioning system adapted for heating the air in an enclosed space comprising an upright housing of rectangular shape in cross section and comprising front, rear, top, bottom and side walls, a flat upright plate therein engaging said side walls, spaced rearwardly of the front wall thereof, a fuel burner upon the bottom wall of said housing between said front wall and plate and extending across the width of said housing, a series of vertically spaced horizontal ribs mounted upon the front side of said plate and with their outer ends projected towards and terminating adjacent said front wall, said ribs being shorter than the width of said plate with alternate ribs joined to alternate sides of the housing to provide a circuitous upward passage for the products of combustion adjacent said plate, said housing front wall having a plurality of air inlet slots at its lower end adjacent said burner, a second flat upright plate transversely apertured at its lower end, spaced rearwardly of said first plate and extending across the interior of said housing to define an elongated passage between said plates for the downward flow of said products of combustion, means at the top of said plates communicating said passages, an upright air conduit centrally arranged within said housing between and spaced from said second plate and the rear wall of said housing, said conduit having an outlet extending horizontally over the top of said housing adapted to communicate with said enclosed space, said conduit extending below said housing and having an inlet adapted to communicate with said enclosed space, a pair of spaced upright coplanar plates intermediate said second plate and the rear wall of said housing with their outer upright edges joined to the side walls of said housing and their inner upright edges joined to side wall portions of said conduit, thereby defining second elongated passages for the upward flow of said products of combustion adjacent said second plate, and additional spaced passages for the downward flow of said products of combustion adjacent the rear wall of said housing, means joining the upper portions of the latter passages and said second elongated passages, and an exhaust pipe joined to the rear wall of said housing in communication with the lower ends of said last passages, and with its other end adapted for communication with the outside atmosphere.

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**2,648,324**
**GAS FIRED AIR-HEATING FURNACE**
**Edward Kent, Detroit, Mich., assignor, by direct and mesne assignments, of twenty-two per cent to Charles E. Wisner, twenty-two per cent to Clarence J. McLeod, and twenty per cent to Carlton F. Brown**
**Application August 3, 1949, Serial No. 108,249**
**1 Claim. (Cl. 126—116)**



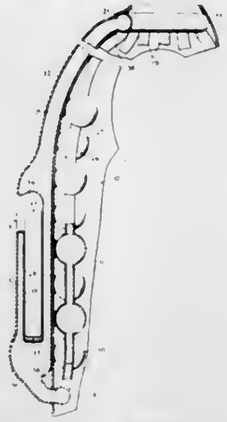
Apparatus for heating an enclosed space comprising an upright chambered member having a front wall with an air inlet opening at its bottom, a hollow upright enclosed combustion chamber of rectangular cross-sectional shape positioned within said chambered member above its bottom and having an air inlet at its lower end adjacent the said air inlet opening, an upright standard within said chambered member resting upon the bottom thereof and supportably engaging said combustion chamber, an elongated gas burner of rectangular cross-section horizontally arranged centrally within said combustion chamber above its lower end and connected to a source of supply, an exhaust pipe at the upper end of said combustion chamber projecting outwardly through said chambered member, a hollow upright fresh air conduit of longitudinal zigzag shape extending through said combustion chamber adjacent said burner and arranged so that elements of its walls are arranged progressively closer to the adjacent wall of said combustion chamber towards its upper end whereby the walls of said fresh air conduit are impinged upon by the upward movement of the products of combustion, said gas burner being disposed adjacent the outer surface of the wall of said fresh air conduit, an air outlet pipe upon said chambered member joined at one end to the upper end of said conduit with its other end adapted to



open to said enclosed space to be heated, and a fresh air pipe projecting into said chambered member with its inner end joined to the lower end of said conduit and with its outer end in communication with a fresh air source.

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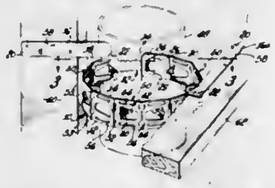
**2,648,325**
**BODY WARMER**
**Paul A. Siple, Arlington, Va.**
**Application June 11, 1952, Serial No. 293,025**
**8 Claims. (Cl. 126—204)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A body-warming garment including a body portion covering a substantial area of the body, tubes mounted upon the body portion and having compressible parts which bear against the wearer and are compressed when the wearer breathes, a liquid reservoir mounted upon the body portion and connected with the tubes and having a pocket formed therein, and a heating unit mounted within the pocket for transmitting heat to liquid contained within the reservoir and tubes.

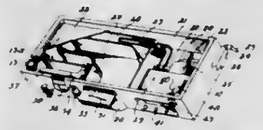
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**2,648,326**
**WRAP-AROUND VENT SPACER**
**Saul Epstein, Los Angeles, Calif.**
**Application December 4, 1950, Serial No. 199,026**
**12 Claims. (Cl. 126—317)**



2. A spacer of the character described comprising: an elongated strip of deformable sheet metal formed with a longitudinal series of transverse extensions severed from said strip along their opposite sides and one end only, and bent outward from the strip along the other end, collectively adapted to abut against the perimeter of a structure around which the strip may be wound so as to space the same apart therefrom, said extensions being formed parallel to the length of the strips with said one end of alternate extensions being oppositely oriented, and coupling means for fastening together the opposite ends of the strip about such structure.

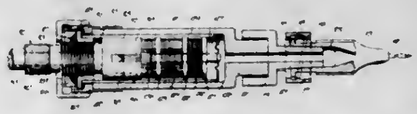
**2,648,327**
**INFANT INCUBATOR EQUIPMENT**
**Samuel Y. Gibbon, Jenkintown, Pa., assignor, by mesne assignments, to Children's Hospital of Philadelphia, Philadelphia, Pa., a corporation of Pennsylvania**
**Application August 5, 1949, Serial No. 108,825**
**10 Claims. (Cl. 128—1)**



5. An infant incubator comprising an occupant's enclosure mounted upon a base-box housing air-conditioning mechanism; said air conditioning mechanism including a smaller box positioned within the base box and containing a cooling compartment, the walls of which compartment are laterally spaced from the corresponding walls of said smaller box on at least two sides so as to form an air duct having an angular change of direction; a humidifying tank mounted in said smaller box and communicating with the air duct; and cover means separating the base box from the occupant's enclosure, said cover means being apertured to provide for circulation of air through the occupant's chamber and through both base boxes in series.

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**2,648,328**
**ELECTRIC BLOOD PRESSURE RECORDING SYSTEM**
**Claude M. Hathaway, Littleton, and Warren de Blois Tilton, Jr., Denver, Colo., and Paul W. Schafer, Kansas City, Kans., assignors, by direct and mesne assignments, to Hathaway Instrument Company, Denver, Colo., a corporation of Colorado**
**Application January 28, 1950, Serial No. 141,132**
**10 Claims. (Cl. 128—2.05)**



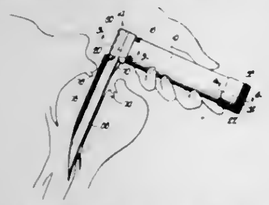
1. An intravenous blood pressure device comprising a small hypodermic syringe having a needle socket, a pressure sensitive device fitted within the cylinder of said syringe and having a pressure sensitive diaphragm, an electromagnetic coil having means for varying the inductance thereof in accordance with movements of said diaphragm, said diaphragm being positioned close to said needle socket to hold to a minimum the volume between said diaphragm and said needle socket.

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**2,648,329**
**LARYNGOSCOPE**
**Ernst Trier Möreh, Kansas City, Kans.**
**Application October 18, 1951, Serial No. 251,883**
**4 Claims. (Cl. 128—11)**

2. In a laryngoscope, a tubular battery housing, a headpiece mounted on said housing at one end thereof, said headpiece having a pair of laterally spaced ribs disposed crosswise of the axis of the housing with a trough-shaped channel between the ribs terminating at its lateral edges in undercuts running longitudinally of the confronting inner surfaces of the ribs, an elongate blade

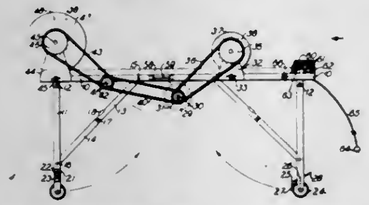
having at one end a trough-shaped shank slidably received in said channel with its opposite longitudinal edges seated against said undercuts whereby said ribs are on either side of said shank, one of said ribs extending higher above the shank than the other and also being thicker than the other rib in transverse cross section, said one rib containing a socket extending longitudinally inward from the end of the rib whereby said socket is offset laterally from said shank, said socket be-



ing spaced above the level of said shank, a lamp supported in said socket and adapted to be energized by the batteries in said housing thereby to project a beam of light longitudinally of the blade along one edge thereof, and said blade having along said one edge a light-concentrating beam guide including an upstanding longitudinal flange positioned beside the beam to prevent same from spreading laterally beyond said one edge of the blade.

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**2,648,330**
**EXERCISING DEVICE**
**O'Connor T. Clark, Daytona Beach, Fla.**
**Application August 25, 1952, Serial No. 306,176**
**7 Claims. (Cl. 128—25)**

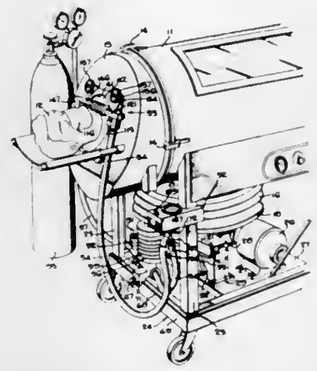


1. An exercising table having a plurality of rotary driven exercising discs mounted from the sides thereof near the hand and leg areas of a person lying prone on said table for exercise, each disc carrying rotarily mounted thereon near the periphery thereof a limb clamping means and means for rotating said discs.

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**2,648,331**
**MEANS FOR APPLYING ARTIFICIAL RESPIRATION**
**Vivian Ray Bennett, Los Angeles, Calif.**
**Application February 1, 1950, Serial No. 141,748**
**11 Claims. (Cl. 128—30)**

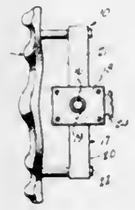
1. In combination, a respirator comprising a shell adapted to receive the chest of a patient and means for alternately lowering and then raising the pressure within said shell according to a predetermined cycle; and pressure breathing apparatus comprising a source of gas to be breathed, a supply tube leading therefrom, means for connecting said tube to the patient's respiratory system, a pump for intermittently raising the pressure of said gas within said tube, and means for connecting said pump to said respirator's pressure-varying means to be operated thereby and synchronously therewith, said connecting means being adjustable to attain varia-



tion of the stroke of said pump and of the volumetric output thereof.

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**2,648,332**
**EXERCISING DEVICE**
**George C. Johnson, Los Angeles, Calif.**
**Application October 18, 1949, Serial No. 121,918**
**1 Claim. (Cl. 128—46)**



In an exercising and massaging device, a massage plate having an elliptical shaped center section, rectangular flanges formed on the ends of the center section, a transverse mound on said center section projecting oppositely from the skirt and transverse mounds on said flanges parallel to the mound on the center section, mounds formed on the plate intermediate the parallel mounds on the flanges and the center mounds, said last named mounds lying in divergent relation and defining ends for the center section, and means integrally formed on the flanges for attachment to a support means.

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**2,648,333**
**DRIP METER**
**Robert K. Cutter, Berkeley, Calif., assignor to Cutter Laboratories, Berkeley, Calif., a corporation of California**
**Application September 17, 1951, Serial No. 247,001**
**2 Claims. (Cl. 128—214)**

1. A drip meter for injection equipment comprising: a chamber provided at its upper end with a fluid inlet connection and at its lower end with a fluid outlet connection; a drip nipple located within said chamber in communication with said inlet connection; and a section of tubing disposed



within said chamber with its lower end in communication with said outlet connection, said sec-



tion being bent into a downwardly extending portion.

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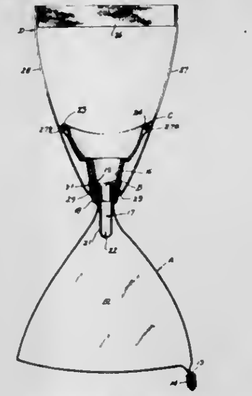
**2,648,334**
**HYPODERMIC INJECTION ASSEMBLY**
**Frank E. Brown, Burbank, and Frederick M. Turnbull, Los Angeles, Calif.; said Brown assignor to said Turnbull**
**Application October 28, 1949, Serial No. 124,061**
**5 Claims. (Cl. 128—218)**



1. A hypodermic syringe assembly including in combination a barrel having an open end and an opposite end provided with a restricted discharge passage, a liquid medicament-containing ampule insertible into the open end of said barrel and presenting a rear portion to lie adjacent the open end of the latter, a piston type stopper within said ampule adjacent the rear portion thereof, an actuator for projecting said stopper through said ampule to expel medicament through said discharge passage, said actuator being formed with a successive series of longitudinally extending guide portions offset with respect to each other and interconnected by transverse guide portions, a stop member mounted by said actuator and engageable with parts of said assembly to arrest movement of said actuator and piston stopper, means carried by said stop member and cooperable with said guide portions whereby said stop member and cooperable means may be shifted along said actuator throughout the length of one of said longitudinal guide portions and be held against further movement by one of said transverse guide portions and said actuator being formed with extensions of said transverse guide portions lying beyond the points of connection of the latter with said longitudinal portions to receive said cooperable means and lock the latter and the stop member against further movement through a successive longitudinal guide portion.

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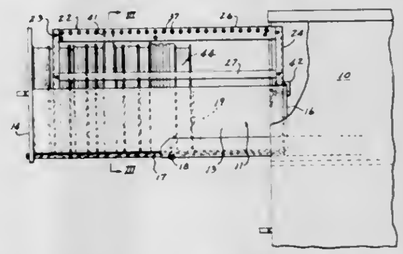
**2,648,335**
**URINAL CONSTRUCTION**
**Laura A. Chambers, San Francisco, Calif.**
**Application September 10, 1951, Serial No. 245,811**
**2 Claims. (Cl. 128—295)**



1. A urinal comprising in assembled condition; a sack unit formed of a relatively pliable liquid-proof material having an open top and closed at its sides and bottom, a funnel made of relatively heavy and stiff material disposed within said sack unit below the top opening thereof, the material of the sack unit being gathered about said funnel defining a constricted neck portion, the portion of the sack unit disposed below said constricted sack portion defining a urine reservoir, a substantially annular reinforcing element made of a manually deformable nonresilient material and having a substantially larger diameter than the diameter of said constricted neck portion reinforcing the sack opening and defining an outwardly flared mouth opening for the sack unit between said reinforcing element and said mouth opening, a supporting garment comprising a waistband and front and back depending supporting straps removably affixed to and supporting said sack unit adjacent said constricted neck portion.

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**2,648,336**
**FILE POSITION INDICATING DEVICE**
**Charles F. Zukoski, Webster Groves, Mo.**
**Application November 2, 1951, Serial No. 254,473**
**1 Claim. (Cl. 129—16)**

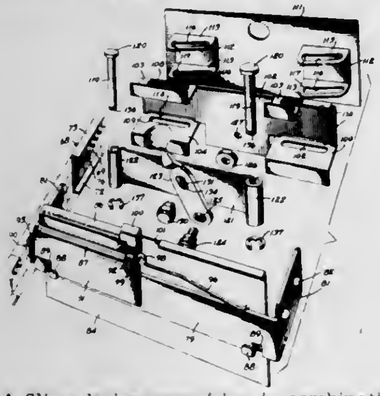


The combination with a file drawer having therein a plurality of laterally extending re-

movable files, of file position indicating means comprising a relatively flat supporting member secured to the rear wall of the file drawer adjacent one side of the drawer and extending above the top of the adjacent side of the drawer, a second relatively flat supporting member adjacent the front wall of the drawer at the same side of the drawer as the first mentioned supporting member and substantially coextensive in height with the first named supporting member, a laterally extending projection adjacent the upper end of each supporting member extending above and outwardly of the adjacent side wall of the drawer, inturned flanges on said projections extending toward each other and at substantially right angles to said supporting members, an elongated substantially horizontal bar extending between the supporting members and secured to said flanges adjacent the tops thereof, there being a multiplicity of downwardly and inwardly extending holes in said bar spaced at substantially equal intervals along said bar, and a pair of pins fitting slidably and snugly in adjacent ones of said holes and extending downwardly between the files in the drawer whereby said pair of pins are held substantially rigidly and indicate between them the position of a removable file.

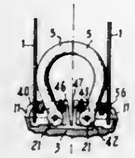
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**2,648,337**
**FILE COMPRESSOR**
**John W. Kent, Buffalo, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware**
**Application November 8, 1950, Serial No. 194,627**
**7 Claims. (Cl. 129—28)**



7. A filing device comprising in combination a file tray having front, back and side walls, a pair of tracks extending between the front and back walls, a rack on said track, a card follower movable longitudinally of the tray and latchable onto said rack at any desired position, a card compressor means carried by said follower comprising a compressor plate extending transversely of said tray, a plurality of flanges mounted on said plate each having a cam groove therein of complementary contour to the other cam grooves; said grooves being laterally and vertically spaced apart, a pair of vertically extending pins laterally spaced apart and mounted to move in unison on and relative to said follower, each pin passing through a registered pair of said vertically spaced cam grooves, and a lever operatively connected to said pins to move them simultaneously transversely of said tray, to cause longitudinal movement of said plate bodily in a plane lateral of said tray.

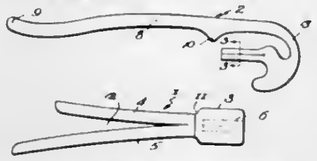
**2,648,338**
**BINDING FOR LOOSE LEAVES**
**Jouval Minkoff, Geneva, Switzerland**
**Application February 14, 1951, Serial No. 210,811**
**In Switzerland February 18, 1950**
**5 Claims. (Cl. 129—24)**



3. A loose-leaf binder comprising a back formed of inner and outer strips slidable longitudinally relatively to each other, the inner strip only having its longitudinal edges comprising a series of projecting beaks turned toward and contacting the longitudinal edges of the outer strip, side covers each having a series of holes along one margin for the passage of said beaks which thereby hingedly connect the back to the side covers, opposing pairs of claws carried by said back and projecting through openings in the inner strip of said back, means operable by sliding one of said strips relatively to the other for moving each pair of claws toward each other to form closed leaf-retaining rings, and means operable by sliding one of said strips relatively to the other in the opposite direction for moving each pair of claws away from each other to permit insertion or withdrawal of loose leaves.

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**2,648,339**
**APPARATUS FOR WAVING HAIR**
**James A. Swenson, Waltham, William E. Burns, Norfolk, and Richard H. Stead, Revere, Mass.**
**Application June 6, 1951, Serial No. 230,218**
**8 Claims. (Cl. 132—41)**



2. A hair-waving curler consisting of a main or body member and a readily removable retaining member, said main or body member having, at one end only, a head which is of larger diameter than the entire portion projecting therefrom, thereby providing an annular ridge, said main or body member having longitudinally extending from said head, at said ridge, two thin, solid, readily flexible tines of unequal length and said tines constituting the remainder of the said main or body member and normally outwardly flaring from each other and being both of substantially the same diameter and shape, the said head having an axial, inwardly extending recess which is of non-circular form in cross section, the said retaining member being one rigid piece and being wholly and readily separable from the said main or body member and having at one end a thin portion rigid therewith and in the plane of the rest of said retaining member, said thin portion being adapted to be grasped between the thumb and finger of the user, said retaining member having extending from said thin portion two longitudinally extending formations generally parallel with each other, the longer of said formations having upon its inner edge a small, inwardly extending projection to engage said annular ridge at the inner end of said head of the main or body member when the parts are assembled, the said retaining member, when the parts are assembled, extending in a direction generally parallel with said tines but not contacting therewith when the said two members are assembled, and thus providing a wholly free termination at its end opposite said thin portion that is to be grasped between a thumb and finger of the user, the shorter of the said two formations of said retaining member being of a length and diameter adapting it to be inserted in the said recess in said head and to fit therein and fill the same, the said shorter formation having a shape and size in cross section which is the same as the cross sectional form of said recess, the outer surface of said head and of said tines being smooth and devoid of ridges and openings.



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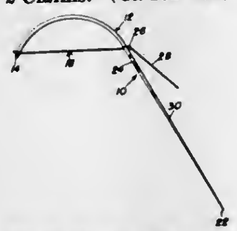
**2,648,340**
**APPARATUS FOR WAVING HAIR**
**James A. Swenson, Waltham, William E. Burns, Norfolk, and Richard H. Stead, Revere, Mass.**
**Original application September 24, 1949, Serial No. 117,597. Divided and this application June 27, 1951, Serial No. 233,818**
**8 Claims. (Cl. 132—41)**



1. A hair-waving curler consisting of a main or body member having a head at one end and a clamping member mounted upon said main or body member adjacent said head, said clamping member for so mounting it upon said main or body member having movably mounted at one end a separate piece that at least partly encircles and is itself turnable freely about the main or body member adjacent said head, said clamping member being movably mounted upon said turnable separate piece, so as to be swung into either clamping or open position, the said clamping member having substantially at its end a cam formation that, when said clamping member is swung downward into closed, functioning position, engages the surface of the main or body member so as to prevent rotation of said clamping member about the main or body member, and that, when the clamping member is swung into open position, is free from camming engagement with said main or body member.

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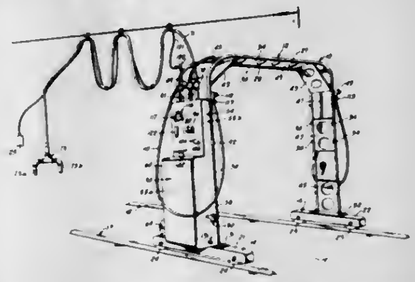
**2,648,341**
**DENTAL FLOSS HOLDER**
**Simon Moll, Pittsburgh, Pa.**
**Application September 30, 1952, Serial No. 312,295**
**2 Claims. (Cl. 132—91)**



1. A disposable dental floss holder comprising a normally flat, elongated resilient member having a length of dental floss permanently secured to one end thereof, a grip portion formed adjacent the opposite end thereof, a dental floss receiving notch formed in said member intermediate the ends thereof, said dental floss being adapted to have an intermediate portion thereof tautly retained in said notch with said member being bowed intermediate said one end and said notch.

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**2,648,342**
**CAR WASHING APPARATUS OF THE LIQUID-SPRAY TYPE**
**James Vani and Albert J. Malpede, Chicago, Ill., assignors to Washmobile Corporation, Beverly Hills, Calif., a corporation of California**
**Application March 28, 1950, Serial No. 152,358**
**4 Claims. (Cl. 134—93)**



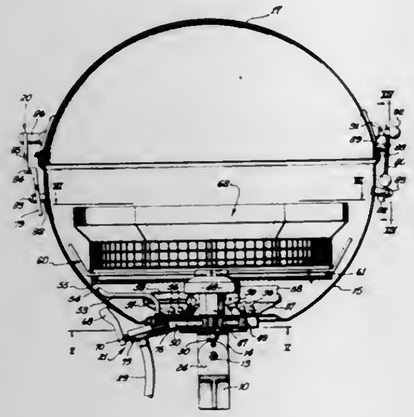
1. A vehicle washer comprising two substantially arch-shaped conduits mounted in upright parallel spaced relation to each other, each of said conduits comprising two upright legs and a cross-bar interconnecting the upper end portions of said legs, a plurality of spray nozzles mounted in said conduits in spaced relation therealong, said nozzles on each of said legs being directed toward the other leg of the respective arch-shaped conduit, and said nozzles on each of said cross-bars being directed downwardly, means including wheels mounted on the lower end portion of said legs for movably supporting said conduits for movement as a unit, and means for selectively feeding saponified liquid and rinsing liquid through respective ones of said conduits to said nozzles for discharge therefrom, said means comprising a pump mounted between and carried by two of said legs, conduit means for feeding liquid to said pump, and other conduit means operatively connected between said pump and said conduits for feeding liquid under pressure from said pump to said conduits, said other conduit means comprising a saponaceous agent-container, a by-pass conduit connected around said container, and valve means for selectively controlling the flow of liquid from said pump through said container and said by-pass conduit.

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**2,648,343**
**OSCILLATABLE SPRAY MEANS FOR DISHWASHING APPARATUS**
**James B. Fullerton, Los Angeles, Calif., assignor to C. A. Miketta, Los Angeles, Calif.**
**Application May 29, 1947, Serial No. 751,431**
**20 Claims. (Cl. 134—138)**

1. A dish-washing machine comprising: a body portion including a bowl and a closure therefor; a supporting rack rotatably mounted within the bowl about a vertical axis; a plurality of nozzles beneath the rack within the bowl arranged about said axis; fluid pressure means for

rotating the rack; oscillatable hollow guide vanes between the nozzles and the rack for conducting and varying the direction of the fluid emitted by



the nozzles to form a continuous sheet of spray; and means coaxial with said vertical axis for translating rotation of the rack into oscillation of the guide vanes.

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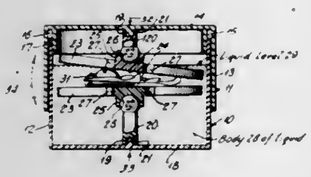
2,648,344

**MANUAL SHAKER-TYPE ARTICLE CLEANSING APPARATUS**

**Alice Randolph Randolph, New York, N. Y.**

**Application March 11, 1952, Serial No. 275,919**

**5 Claims. (Cl. 134—157)**



1. A manual shaker-type article cleansing apparatus comprising, in combination; a sectioned closed container having telescoping parts and end walls; a pair of opposed tiltable perforate, article-clamping platform means located between and spaced appreciably from said end walls of lateral dimensions appreciably less than transverse dimensions of container parts laterally opposite thereto to permit free tilting; and a pair of support means each tiltably mounting one of said platform means on one of said end walls having substantial longitudinal rigidity whereby the platform means are substantially non-rectractable toward said end walls with external application of telescoping pressure to said container parts while permitting tilting action of said platform means for accommodating them to the contours of articles clamped therebetween.

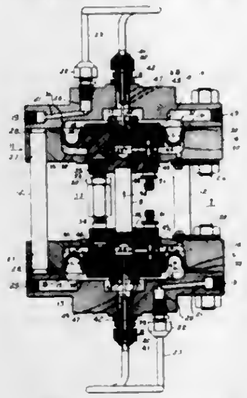
2,648,345

**VIBRATION DAMPED FORCE MEASURING DEVICE OF THE DIAPHRAGM TYPE PROVIDED WITH A VALVE FOR AUTOMATICALLY APPLYING A PRESSURE TO THE DIAPHRAGM SUFFICIENT TO BALANCE THE FORCE**

**Alfred A. Markson, Mount Lebanon, Pa., assignor, by mesne assignments, to Hogan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**

**Application December 14, 1945, Serial No. 634,941**

**2 Claims. (Cl. 137—85)**



1. A device adapted to measure thrust forces comprising a pair of opposed housing members, a flexible non-metallic diaphragm between said members having its peripheral edge clamped therebetween, said diaphragm having an annular U-shaped trough concentric with and adjacent to the clamped edge of the diaphragm, one of said members having a poppet valve mounted thereon adapted to supply a pressure fluid into the space between said one housing member and said diaphragm, a sending port communicating with said space adapted for connection to a pressure measuring device, the other of said housing members having an opening therein which is concentric with the center of said diaphragm, a thrust member disposed in said opening and bearing against the diaphragm on the face opposite the pressure face thereof, a clamping plate concentric with the center of said diaphragm and bearing against the diaphragm on its pressure face in the area opposite that of the thrust member, the opposite walls of the U-shaped trough in said diaphragm engage the adjacent walls of the housing and thrust member, the width of said trough being equal to C and having a slack length S, the engaging walls of said housing and thrust member so confining the width of the trough that the ratio of slack length S to width C is substantially constant for all values of thrust and balancing pressure on said diaphragm, a screw threaded member extending through said plate and diaphragm and having screw thread engagement with the thrust member for clamping the central portion of said diaphragm between said thrust member and said plate, a valve seat in said threaded member, said threaded member having a discharge passageway therein, said thrust member having a discharge passageway leading to the atmosphere and communicating with the passageway in said threaded member, a valve stem in said valve having one end controlling said discharge valve seat, there being a part on said stem adjacent the other end thereof for controlling the inlet of said poppet valve,



and means for securing the thrust member to a thrust force transmitting member whose thrust force is to be measured, the thrust transmitting member acting to flex said diaphragm when the thrust force and the force of pressure acting thereon are out of balance and to so operate said valve, by opening its inlet valve while holding the exhaust port closed and vice versa, that the force of the pressure acting on the pressure face of said diaphragm always balances the thrust force to be measured, said inlet and exhaust ports of said valve being closed when said thrust and pressure forces are in balance, means for adjustably restricting the discharge passageway in said thrust member.

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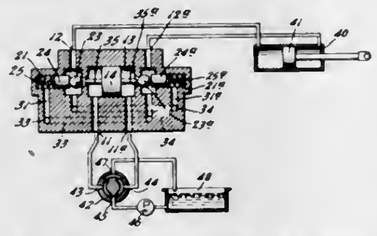
2,648,346

**LOCKING VALVE FOR HYDRAULIC MOTORS**

**Clinton E. Deardorff, San Fernando, and Joseph B. Gunn, Van Nuys, Calif., assignors to Bendix Aviation Corporation, North Hollywood, Calif., a corporation of Delaware**

**Application May 19, 1952, Serial No. 288,738**

**3 Claims. (Cl. 137—102)**



1. A valve of the type described comprising: a body having two line ports and two load ports; means defining two flow paths one between one line port and one load port and the other between the other line port and the other load port; a check valve in each flow path directed to prevent flow from each load port to its associated line port; first motor means responsive to pressure in either line port to open the check valve associated with the other line port; and second motor means differentially responsive to the pressures in said two load ports for urging into closed position the check valve associated with the load port of lower pressure.

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2,648,347

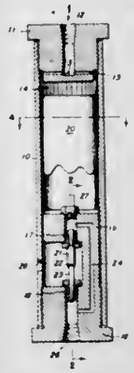
**AUTOMATIC HIGH-PRESSURE VALVE**

**Frederick Fahnoe, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**Application November 19, 1948, Serial No. 60,965**

**5 Claims. (Cl. 137—196)**

5. An automatic high pressure valve adapted for removing liquid which is under high pressure without releasing the pressure on said liquid, which comprises an elongated cylindrical chamber, an inverted hollow float substantially filling the upper portion of said chamber, balanced valves in the lower portion of said chamber, diametrically opposed arms rigidly attached to said float at the lower edge thereof and extending downwardly to the lower portion of said chamber, means connecting the lower ends of said arms and in engagement with said balanced valves, said balanced valves thus being adapted to be opened by the upward movement of said float, an inlet at the upper end of said cylinder and an outlet at the lower end of said cylinder, and passageways within said cylinder adapted to require passage of liquid through said valves from said inlet to said outlet, said chamber being of a size not substantially greater than the operating mechanism within, so as to offer a minimum liquid retention.



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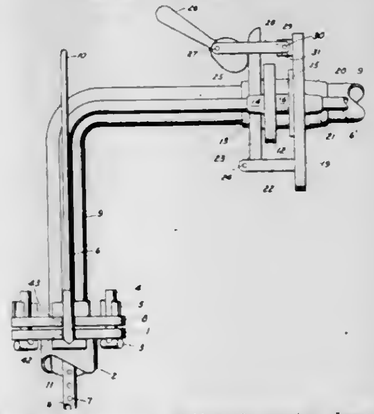
2,648,348

**INCINERATION SYSTEM**

**Sidney Robinson, Weston, Mass., assignor to the United States of America as represented by the United States Atomic Energy Commission**

**Application April 16, 1947, Serial No. 741,929**

**1 Claim. (Cl. 137—561)**



A flue arrangement of the character described comprising a supply line and a flue line for connection to an ash bottle through a coupling at one end, a union at the other end for connecting them to a supply source and a flue, said union having a block portion and a frame portion, said block portion being provided with socket portions for the reception of the supply line and flue line, extensions on the block portion for seating in recessed portions of the frame portion, and a lever carried by the frame portion and engageable with the block between the socket portions for urging the frame and block into tight assembled relation.

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2,648,349

**VALVE STRUCTURE**

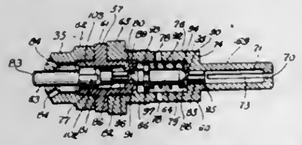
**James W. McGarry, Cincinnati, Ohio**

**Application December 10, 1947, Serial No. 790,777**

**1 Claim. (Cl. 137—620)**

A pilot valve for supplying water under pressure to the cylinder of a piston operated main

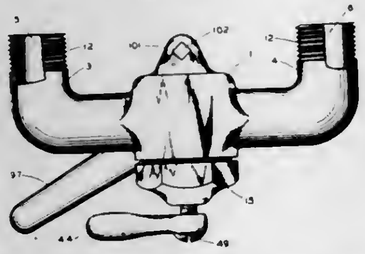
valve, said pilot valve comprising a cup-shaped main valve body, there being an axial inlet port in the bottom of said body and an opening in the side thereof for communicating with the cylinder, a guide bushing attached to and closing the mouth of said body, there being an outlet port in said guide bushing in alignment with the inlet port in the body, a cup-shaped discharge fitting, the mouth of said discharge fitting being attached to the guide bushing, there being a guide bore in the base of said discharge fitting aligned with the inlet and outlet ports, there being a valve seat inside each of said ports, a reciprocating plug in the body, said plug having a body portion inside said body and guide stems at opposite ends of said body portion slidably received in said ports, there being valve faces on opposite ends of the body portion of the plug adapted to alternately close said inlet



and outlet ports, each guide stem being slidably received in one of the ports, the inboard end of each guide stem being of lesser diameter than the port associated therewith, there being slots in the guide stems for the passage of water through each port when open, spring means urging the plug toward the outlet port to close the outlet port, and an axial extension on the guide stem in the outlet port having an enlargement thereon engaging the inner wall of the guide bushing and being provided with a slot extending therethrough, said extension projecting through the bore in the base of the discharge fitting, there being a space inside the discharge fitting surrounding said extension and a drain hole through the wall of the discharge fitting to permit drainage of water when the outlet port is open and means for engaging said extension for opening the outlet port.

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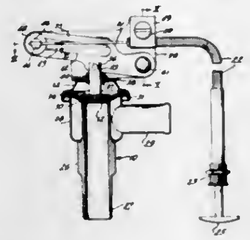
**2,648,350**
**MIXTURE CONTROL VALVE FOR FAUCETS**
**Peter Hagen, Sharon Hill, Pa.**
**Application April 16, 1947, Serial No. 741,857**
**5 Claims. (Cl. 137—630.16)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A mixture-control valve for faucets comprising a valve housing defining a chamber having a first and a second inlet port and a discharge port, a first valve seated rotatably in said chamber, said first valve having a first port adapted to register with said first inlet port, a second port adapted to register with said second inlet port simultaneously with said registry of said first port and a third port adapted to register with said second inlet port when said first and second ports are out of such registry, means to rotate said first valve to effect such registry, a second valve seated rotatably in said first valve, said second valve having a first port adapted to register with said first inlet port and with said first port of said first valve, a second port adapted to register with said second port of said first valve and with said second inlet port simultaneously with the removal from registry of said first port of said second valve and said first port, and a third port adapted to register with said second inlet port and with said third port of said first valve simultaneously when all other ports are out of such registry, said second valve being rotatable by said means to effect such registry.

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**2,648,351**
**VARIABLE-SPEED REMOTE CONTROL FOR VALVES**
**Russell R. Curtis, Bedford, Ind., and Ewald J. Kimm, Dayton, Ohio, assignors to Curtis Automotive Devices, Inc., Bedford, Ind., a corporation of Ohio**
**Application April 14, 1949, Serial No. 87,534**
**9 Claims. (Cl. 137—750)**



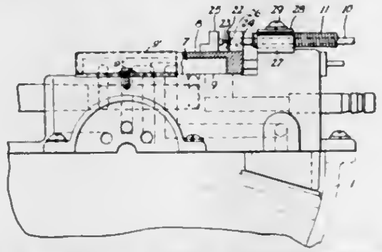
4. A diaphragm valve comprising a valve body having a flow passage, a diaphragm controlling flow through said passage, a stem projecting from the body and anchored to the diaphragm in the body, a support member on the valve body receiving the stem therethrough, said support member having an upstanding portion with a slot therein at an angle to the axis of the stem, a slotted lever pivoted on said upstanding portion at a point remote from said stem, said slots being arranged at an angle to each other, a pin connecting said stem with said lever in spaced relation from said pivot, and a slide riding in both of said slots and movable to swing the lever about its pivot for reciprocating the stem.

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**2,648,352**
**REMOTE-CONTROLLED VALVE FOR WINDSHIELD CLEANERS**
**Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.**
**Application April 24, 1948, Serial No. 23,105**
**2 Claims. (Cl. 137—764)**

1. In a valve and operator therefor, a supporting structure having a ported valve seat and having means providing an armor receiving seat projecting from the valve seat, a valve carrying an operating wire seat and slidably mounted on said valve seat for controlling said port, an armor housing a push-pull wire with an end portion of said wire projecting from an end of said armor, said armor seat and said wire seat each comprising a laterally open longitudinal recess, said openings being longitudinally aligned to receive said ends of said armor and said wire respectively, means for retaining said end of the armor in its

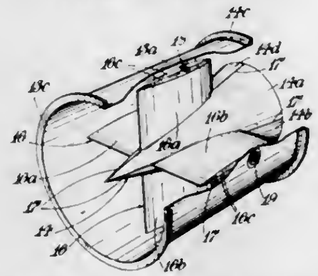




recess, said end portion of said wire having means cooperating with said valve and wire seat whereby said valve can be operated by said wire.

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**2,648,353**
**DUCT STRUCTURE FOR GAS-TURBINE ENGINES**
**Lionel Haworth, Littleover, England, assignor to Rolls-Royce Limited, Derby, England, a British company**
**Application May 4, 1951, Serial No. 224,509**
**In Great Britain May 17, 1950**
**17 Claims. (Cl. 138—37)**

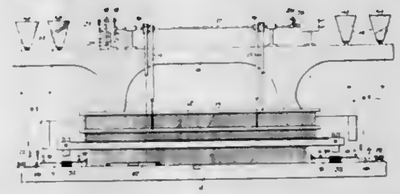


1. An exhaust duct structure comprising an outer tubular wall and an inner wall unit supported coaxially within said outer tubular wall; said inner wall unit affording an annular wall to cooperate with said outer tubular wall to define therebetween an annular fluid passage, and a plurality of struts extending outwardly across said passage from said annular wall to said outer tubular wall; and said inner wall unit comprising a plurality of metal pressings equal in number to said plurality of struts, each said pressing providing in one piece that portion of the annular wall which interconnects an adjacent pair of said struts and a portion of each of said adjacent pair of said struts, and integral joints interconnecting said metal pressings.

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**2,648,354**
**COPLESS SHUTTLE LOOM**
**Eneas G. Mascarenhas, Minas, Brazil**
**Application April 29, 1949, Serial No. 90,333**
**8 Claims. (Cl. 139—134)**

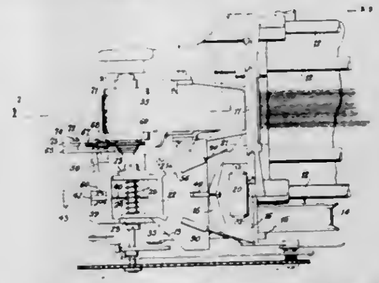
1. In a loom forming sheds, a magnetically responsive shuttle adapted to move back and forth across the sheds, throwing barrels disposed on opposite sides of the sheds and adapted to receive said shuttle, a solenoid around each barrel to be energized and to repel the shuttle to throw it out of the barrel, switch means associated with the barrel and operated by the shuttle when it enters the barrel to energize the solenoid, a thread cutting means, a thread carrying means disposed adjacent to each of the barrels, means on the shuttle to grasp a thread from the thread-carrying means as it enters the barrel, electro-mag-



netic means to operate the thread-cutting means, and a switch on each barrel and operated by the shuttle to energize the thread cutting means associated with the opposite barrel to cut the thread that has been pulled across the sheds.

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**2,648,355**
**THREAD CUTTING MECHANISM**
**Franz C. Mostertz, Philadelphia, Pa.**
**Application May 11, 1951, Serial No. 225,880**
**7 Claims. (Cl. 139—263)**



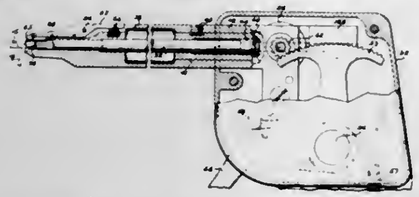
1. In a loom having a reciprocating shuttle carrying a quill and having means for inserting successive quills into the shuttle and ejecting depleted quills, a slide supported adjacent to the shuttle at one end of the path of movement of the shuttle, a pivoted cutter blade, a resilient connection between said blade and the slide whereby the blade will be swung toward and will resiliently contact with the shuttle and sever a thread extending from the quill in the shuttle toward the shed, and a solenoid for moving the slide in one direction to bring said cutter blade toward the shuttle to sever said thread.

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**2,648,356**
**DEVICE FOR WINDING WIRE ABOUT TERMINALS**
**Ezra J. Beaulieu, Downers Grove, Leif E. Haagensen, Barrington, and Oscar Scharer, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application May 6, 1949, Serial No. 91,748**
**13 Claims. (Cl. 140—122)**

11. A device for winding a connector wire about a terminal comprising a non-rotatable element having a recess in one end thereof for receiving one end of a terminal therein to hold the terminal against lateral movement, means on said element engageable with the end of the terminal to limit the movement thereof longitudinally of said element to a predetermined position, a member mounted for rotation about said element, a wind-

ing finger pivotally mounted on said rotatable member for rotation therewith and having an end portion thereof adjacent the recess of said element, said winding finger having a recess in the end thereof for receiving a connector wire, means mounted on said device to stress said winding finger to urge said end thereof toward the element and to urge the connector wire in the recess thereof into engagement with a terminal



positioned in the recess of said element, and means for rotating said rotary member whereby said winding finger is caused to rotate and wind the connector wire positioned in the recess of said winding finger around the terminal positioned in the recess of said element and to thereby effect relative movement longitudinally between the terminal and the non-rotatable element as said connector wire is wound around said terminal.

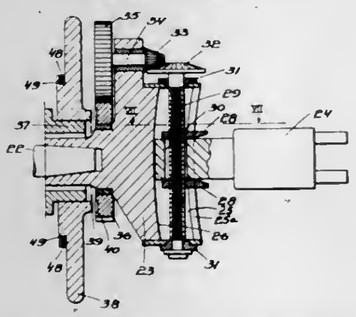
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**2,648,357**

## DEVICE FOR MAKING SHOE LASTS BY PROFILE MILLING

**Harald Werklund, Simrishamn, Sweden, assignor to A B Svenska Skolästfabriken, Jarrestad, Sweden**

**Application December 13, 1948, Serial No. 65,026**
**In Sweden December 18, 1947**
**3 Claims. (Cl. 142—15)**



1. A device for supporting one end of a shoe last from a spindle in a last-turning lathe, comprising a body portion supported by said spindle, a sun gear mounted for rotation around the axis of said spindle on said body portion, a planet gear rotatably mounted on said body portion and meshing with said sun gear, a first bevel gear connected to said planet gear and rotatable thereby, a shaft rotatably mounted on said body portion and extending substantially at right angles to the axis of said spindle, a second bevel gear fixed to said shaft and meshing with said first bevel gear, guiding means on said body portion extending along said shaft, screw thread means on said shaft, a holder for said end of the shoe last, nut means on said shaft engaging said screw thread means, said guiding means partially surrounding and engaging said holder and said nut means to prevent rotation of said holder and nut means around the axis of said shaft, when said shaft is rotated, and guiding said holder and nut means along said shaft, when said nut means are screwed along said shaft during rotation of said shaft, and means mounted on the frame of the lathe and axially movable to engage said sun gear to prevent rotation thereof and to cause a relative rotation of said sun gear in relation to said body portion, when said body portion is rotated together with the last, in order to cause rotation of said planet gear, said bevel gears and said shaft for shifting said holder and nut means along said shaft during the last turning operation.

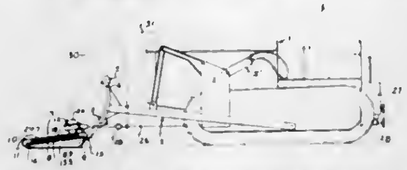
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**2,648,358**

## MACHINE FOR CLEARING UNDERGROWTH FROM LAND

**Fredrick A. Lower, Wichita Falls, Tex.**

**Application February 25, 1947, Serial No. 730,739**
**4 Claims. (Cl. 143—32)**



1. In an apparatus adapted to be attached to a traction element, a pair of forwardly extending arms pivotally attached to the rear of said traction element, a transverse member interconnecting the forward ends of said arms, a pair of upstanding bars having hooks on the upper end for detachably interengaging said transverse member, clamps for bindingly engaging said bars with said transverse member, a U-shaped frame secured to said bars and having spaced cantilever portions connected together at one end only thereof, a rubber faced pulley mounted on the free end of each of said cantilever portions, an endless flexible cutting device extending over the pulleys in bridging relation between the extremities of said cantilever portions for applying a cutting action to objects therebetween, and gear means for driving each of said pulleys independently of said endless flexible cutting device.

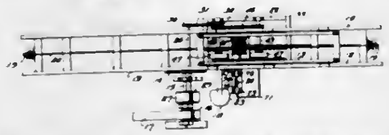
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**2,648,359**

## HYDRAULICALLY CONTROLLED FEED FOR SAWMILLS

**Malvin M. Barksdale, Amity, Ark.**

**Application September 24, 1951, Serial No. 248,007**
**2 Claims. (Cl. 143—106)**



1. A feed unit for saw mill carriages and the like including a base, a cable drum and its shaft mounted on said base for rotation in either direction, which drum has carriage operating cables wound thereon, a pair of drive shafts rotatably mounted on said base, one on each side of said drum and its shaft, means for continuously driving said drive shafts in the same direction, a rotatable hydraulically operated clutch on each of said drive shafts, a sprocket wheel on each of said clutches and on the cable drum shaft, an idling shaft rotatably mounted on said base beyond one of said drive shafts, a sprocket on said idling shaft, all of said sprockets in the same plane with each other, a driving sprocket chain trained about said sprockets with a stretch thereof extending between the sprockets on the clutches up and over one and down and under the other so that when the clutch on one drive shaft is operated the chain will be driven in one direction and when the other clutch is operated the chain will be driven in the reverse direction, and means for supplying fluid pressure to one or the other of said hydraulically operated clutches to effect a forward or reverse drive of the carriage by rotation of the cable drum in one direction or the other.



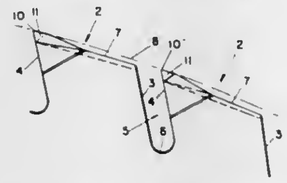
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**2,648,360**

## SAW WITH A CONCAVED LEADING CHISEL EDGE AND PLANAR OFFSET SIDE SURFACE ON EACH TOOTH

**Francis A. Pall, San Diego, Calif., assignor of one-half to Isabelle M. Pall, San Diego, Calif.**

**Application July 24, 1952, Serial No. 300,624**
**1 Claim. (Cl. 143—140)**



A saw as a new article of manufacture, consisting of a body portion, thereon uniform profile teeth in spaced relation along the rim, the back of each tooth sloping and extending below the cutting line and forming an acute angle with the planar front face and an obtuse angle with the rear face of the tooth, having a hollow-ground surface, forming a transverse concaved leading chisel edge with the inclined front face of said tooth, having each said transverse concaved leading chisel edge terminated in a planar offset side surface parallel to the body portion of the saw, having chip space formed by the front and rear face of two adjacent teeth.

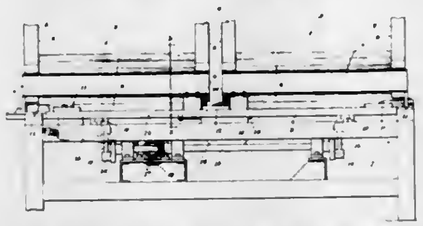
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**2,648,361**

## JOINING PRESS

**Walter E. Jones and Gordon A. Nielsen, Roseville, Calif., assignors to Jones Steel Products, Inc., Roseville, Calif., a corporation of Nevada**

**Application November 2, 1948, Serial No. 57,848**
**2 Claims. (Cl. 144—279)**



1. A joining press for boards alined endwise in initially spaced relation and formed at adjacent ends for finger jointing, the press comprising a table, a longitudinal hopper assembly above the table for a plurality of said boards, the hopper assembly being arranged to feed the boards onto the table a pair at a time in said alined, end spaced relation for lateral advancing motion on the table, pusher means operative upon reciprocation thereof to advance the table supported pair of boards laterally from the hopper to another position on the table, power mechanism operative to reciprocate the pusher means, a device operative to apply glue to at least one of the adjacent ends of each table-supported pair of boards before the same are advanced from the hopper, ram means operative to relatively shift the boards lengthwise when the same are at said other position whereby to engage the finger joint, power mechanism operative to reciprocate the ram means in predetermined timed relation to the pusher means and including a horizontal transverse shaft; the table having an aperture therein opening between the adjacent ends of said table-supported pair of boards in the hopper, a glue reservoir mounted below the aperture and into which said shaft projects, a glue applying head mounted for swinging motion from the reservoir upward through the aperture to engagement with the adjacent end of one of said table supported boards, an arm fixed with the head and turnable on the shaft, another arm fixed on the shaft back of the first named arm relative to the direction of upward swinging movement, and a normally slack compression spring connected between the arms.

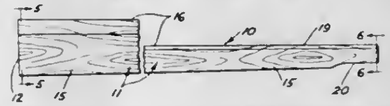
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**2,648,362**

## METHOD OF MAKING RAKE TEETH

**Lester G. Kopp, South Bend, Ind., assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware**

**Original application October 16, 1948, Serial No. 54,885. Divided and this application August 30, 1950, Serial No. 182,279**
**1 Claim. (Cl. 144—309)**



The method of making rake teeth for an agricultural implement and which comprises sawing a pair of complementary tapered blanks from a relatively long timber having a substantially square cross section and a length many times that of the lateral dimension of said cross section, said length corresponding to that of a finished tooth, subjecting the sawed faces of said blanks to a smoothing operation, relieving the lower edge adjacent the smaller end of each of said blanks, and chamfering the sharp lateral edges of the previously sawed faces of said blanks.

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**2,648,363**

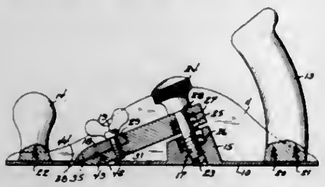
## SAFETY RAZOR BLADE PLANE

**Alfred Weber, Chicago, Ill.**

**Application February 6, 1951, Serial No. 209,643**
**1 Claim. (Cl. 145—12)**

In a safety razor blade plane, the combination which comprises a flat base plate having a transversely disposed slot therethrough and with side walls extended upwardly therefrom, a handle mounted on one end of the base plate, a hand gripping knob mounted on the opposite end thereof, a safety razor blade holder having a transversely disposed recess in one end and an opening communicating with a recess in the opposite end positioned above the base plate, means pivotally mounting the holder in the side walls

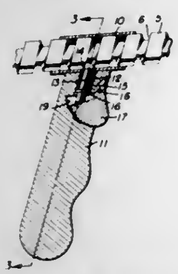
of the base, a transversely extending web having a recess therein positioned on the base plate rearwardly of the said slot, an adjusting screw extended through the opposite end of the holder and threaded into the base plate, a spring around the adjusting screw and positioned in the recess in the holder and web between the end of the holder through which the adjusting screw extends and base plate, a clamping plate positioned



in the transversely disposed recess positioned in the holder, a thumb screw extended through the clamping plate and threaded into the holder for clamping a safety razor blade in the transversely disposed recess of the holder, and means positioning the safety razor blade in the transversely disposed recess of the holder with the blade extended through the transversely disposed slot of the base plate.

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**2,648,364**
**SPIRAL TOOL DRIVER**
**Roy Corella, Garvey, Calif.**
**Application October 22, 1951, Serial No. 252,529**
**2 Claims. (Cl. 145—53)**

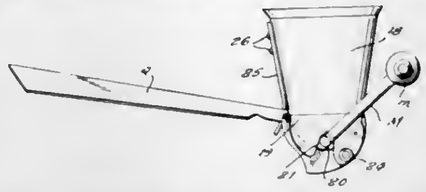


1. A tool comprising a spirally grooved shaft, a sleeve slidable on the shaft, a handle fixed to the sleeve, there being a bore through the side of said sleeve and extending into said handle, a driving pin slidably carried in said bore for movement into and out of engagement in the groove of the shaft to rotate the shaft upon a sliding movement of the handle, spring means retracting the pin from said groove, and means pivoted to the handle for projecting the pin into said groove.

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**2,648,365**
**DOMESTIC CHOPPING DEVICE FOR VEGETABLE MATTER**
**Georges Auguste Lacout, Paris, France, assignor to Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), Paris, France**
**Application February 10, 1949, Serial No. 75,687**
**In France February 27, 1948**
**4 Claims. (Cl. 146—123)**

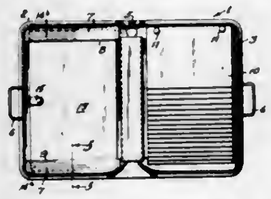
1. In a chopping device for vegetable matter and the like of the type provided with a plurality of rotary cutters, the combination of a substantially semi-cylindrical holding base member having an open top, open ends and a bottom wall provided with chopping slots into which the rotary cutters fit; a hopper having an open top and an open bottom and adapted to be moved from inoperative position with the open bottom thereof spaced from the open top of said holding base member into operative position in which said hopper is located above said base member with the open bottom thereof communicating with the open top of said base member, said hopper having downwardly extending opposite end wall portions arranged at opposite ends of said hopper extending downwardly from the open bottom thereof so as to close in operative position of said hopper, said opposite open ends of said holding base member; oppositely disposed open elongated



bearing recesses formed in said downwardly extending end wall portions of said hopper shaped so as to be open when said hopper is in inoperative position and to be closed at their open ends by said base member when said hopper is in operative position thus limiting said bearing recesses to close bearing openings; a shaft for supporting and operating the rotary cutters, said shaft being adapted to be inserted and received in said open bearing recesses when said hopper is in inoperative position, and to be supported within the closed bearing openings to which said bearing recesses are limited when said hopper is in operative position; means associated with said shaft for rotating the same; means movably securing said hopper to said base member movably between inoperative and operative positions; and releasable means for locking said hopper in operative position whenever desired.

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**2,648,366**
**NURSE'S BAG**
**Eliza Hazel Higbee, Richmond, and Lona Gladys Girton, Orange, Va., assignors to Remington Rand Inc., New York, N. Y., a corporation of Delaware**
**Application March 27, 1950, Serial No. 152,056**
**3 Claims. (Cl. 150—34)**

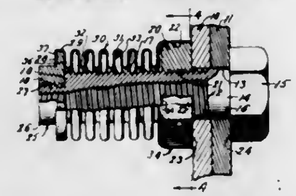


1. A supply unit particularly for carrying clinical supplies comprising in combination a case having two rectangular sections; a hinge section connecting one side of each of said sections whereby said case will be flat when opened; closure means on at least one of the remaining three sides; index card holding means on the inner side of a first of said sections; means for removably securing said card holding means to said first section; a rectangular supply holder housed in the second section comprising two parts adapted to internally carry suitable supplies for the unit; a back portion hingedly connecting said two parts to permit the parts to lie flat when opened, said holder when opened being of such dimensions relative to said case to extend substantially over the area of the two sections of the opened case to expose internally carried supplies for ready selection and use; means for securing the two parts of said holder in closed position housed within said second section, whereby to fully expose said index; and means for removably securing said holder within said second section.



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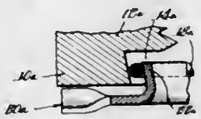
**2,648,367**
**LOCK NUT**
**Russell E. Curran, Chicago, Ill**
**Application October 17, 1951, Serial No. 251,794**
**10 Claims. (Cl. 151—18)**



7. In a lock nut assembly of the type for locking a main threaded nut on a threaded shank having threads complementary to the main nut, the improvement which comprises a second non-circular end member fixedly mounted on the end of said shank, and a resilient bellows having a non-circular socket at one end for removably engaging the external non-circular surface of said main nut to prevent relative rotation between the bellows and main nut, said bellows having its parts spaced sufficiently to permit the bellows to be collapsed sufficiently to disengage the forward non-circular socket from the main nut and said bellows being provided with a second non-circular socket at its other end for engaging about the non-circular surface of said end member to prevent relative rotation between the bellows and the end member.

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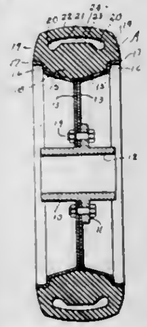
**2,648,368**
**COUPLED NUT AND LOCK WASHER**
**John B. O'Connor, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois**
**Application July 22, 1949, Serial No. 106,139**
**1 Claim. (Cl. 151—37)**



A three-piece fastener unit including a nut having a counterbore in the clamping surface thereof adjacent and around the threaded portion thereof, said counterbore being bounded by a frusto-conical wall section having the reduced diameter thereof in the vicinity of said clamping surface, a compressible sheet metal washer member having a central aperture defined by axially extending flange means of frusto-conical configuration projecting into said counterbore, the increased diameter of said flange extending toward the free margin thereof, the increased diameter of said flange means being less than the reduced diameter opening of the counterbore and positioned axially inwardly thereof and within said counterbore, the remainder of said washer member extending radially outwardly from the base of said flange means and axially compressible against the clamping surface of the nut, and an annular split retainer spring element interposed between the increased diameter portion of the flange means and the reduced diameter opening of said counterbore and of a radial thickness greater than the annular gap between the increased diameter portion of the flange means and the reduced diameter opening of said counterbore to counteract axial separation of the washer member and nut, the axial depth of the counterbore being greater than the combined axial extent of the increased diameter portion of the flange means, the reduced diameter of the counterbore and the interposed retainer spring when in unclamped position to thereby provide sufficient clearance between the free edge of the flange means and the bottom of the counterbore to permit axial movement of the flange means into the counterbore as the radial portion of the washer member is compressed during clamping action of the nut, the diameter of the counterbore between the reduced diameter and the bottom thereof being sufficiently large to permit axial shifting of the retainer spring with respect to the counterbore wall and washer flange, the annular retainer spring having a normal internal diameter which is less than the maximum outer diameter of the washer flange and an outer diameter which is normally less than the maximum diameter of the counterbore, the inner margin of the side of the retainer spring facing the counterbore opening being flared to facilitate telescopic association of the washer flange therewith when said flange is inserted within the counterbore, the depth of the counterbore and axial length of the washer flange being such that when the free margin of said flange is fully inserted within the counterbore it will extend sufficiently beyond the minimum internal diameter of the annular spring to effect assembly of the spring with the flange.

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**2,648,369**
**RUBBER TIRED GAUGE WHEEL**
**Everett W. Todd, Racine, Wis., assignor to The Massey-Harris Company, Racine, Wis., a company of Maryland**
**Application October 7, 1949, Serial No. 120,184**
**1 Claim. (Cl. 152—325)**



In a non inflatable tire having a normal convex tread surface; a transversely elongated air

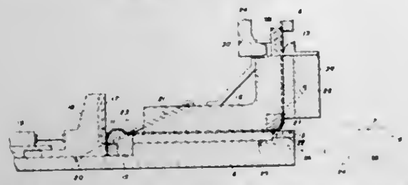
chamber in said tire extending circumferentially thereof and having a radially outer surface substantially similar in shape to said tread surface, side surfaces so spaced to provide a tire side wall thickness greater than the thickness between said tread surface and said outer surface, said side surfaces intersecting said outer surface of the chamber in a smooth curve, and a flat inner surface raised sufficiently above the radially inner ends of the side walls to prevent the tread surface from assuming a concave shape.

2,648,370

## METHOD AND APPARATUS FOR PROGRESSIVE FORMING OF C-STAGE PLASTIC MATERIAL

**William I. Beach, Los Angeles, Calif., assignor to North American Aviation, Inc.**

**Application March 18, 1950, Serial No. 150,528**
**5 Claims. (Cl. 154—1)**



3. A device for successively bending unreinforced portions of a substantially flat sheet of portformable material provided with reinforcing strips attached thereto to define unreinforced bendable portions, said device comprising a fixture for receiving and holding a reinforced portion of said sheet whereby other portions of said sheet are unconstrained; and a plurality of bending units corresponding in number to the unreinforced portions of said sheet associated with said fixture, each of said units comprising a heater, a die, and a forming member pivotal relative to said fixture, at least one of said forming members being pivotally connected to said fixture, the first of said units being disposed relative to said fixture whereby when said flat sheet is initially received by said fixture the first die is adjacent the first of said unreinforced portions, the first heater is in heat transfer relationship with said unreinforced portion whereby said portion is heatable to a temperature above 250° F. and below about 350° F., and said first forming member is adapted to engage unconstrained portions of said sheet remote from the portion held by said fixture for pivoting said unconstrained portions about said first die, thereby bending said first unreinforced portion about said first die and holding said sheet in such position, the remaining units being disposed whereby they are individually and successively brought into similar association with successive portions of said sheet upon completion of the first and successive bending operations as a result of such bending by preceding units for each performing a similar bending operation on an unreinforced portion of said sheet.

2,648,371

## METHOD AND MACHINE FOR PRODUCING A CONTINUOUS HONEYCOMB STRUCTURE

**George I. Goodwin, Birmingham, and Howard H. Klee, Royal Oak, Mich.; said Klee assignor to said Goodwin**

**Application March 27, 1948, Serial No. 17,424**
**26 Claims. (Cl. 154—1.8)**

1. A method of producing a cellular structure from a web of paper or other flexible sheet material which consists in moving the web in the direction of its length, scoring the web along parallel lines to divide the web into a large number of relatively narrow strip portions extending longitudinally of the web, progressively folding the web along the score lines to bring said strip portions into face-to-face relation, connecting adjoining faces of said strip portions at longitudinally spaced points with the points of connection staggered on opposite faces of each of said strip portions, disconnecting said strip portions along their edges, progressively separating said face connected strip portions into a cellular structure of the desired width, applying a rigidifying material to the cellular structure and curing the same while maintaining the cellular structure in its expanded condition.

14. A machine for producing a cellular core structure from a web of paper-like flexible sheet material which comprises in combination a supporting structure, means for continuously feeding a web of the material along a predetermined path, means for providing score lines on the web to define a plurality of relatively narrow longitudinally



extending strip portions, said means being arranged to apply said score lines in successive staggered relation inwardly and longitudinally of the web, means for progressively folding the web along the score lines to bring said strip portions on edge and into face-to-face relation and to form thereby a relatively narrow ribbon formation, means for connecting adjoining faces of said strip portions at longitudinally spaced points with the points of connection staggered on opposite faces of each of said strip portions, means on opposite sides of the path of travel of said ribbon formation for disconnecting said strip portions along the fold lines, means spaced laterally relative to the path of travel of said ribbon formation for progressively separating said face connected strip portions and expanding said ribbon formation laterally into a cellular structure of the desired width, and means for applying a rigidifying material to the cellular structure and curing the same while maintaining the cellular structure in its expanded condition, all of said means being arranged on said supporting structure along said path of movement and being operated in timed relation relative to the movement of the material.

2,648,372

## CHAIR WITH SPRING SEAT AND BACK

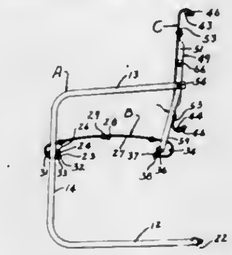
**Luther A. Smith, Birmingham, Ala., assignor to Southern Household Products Company, Inc., a corporation of Delaware**

**Application May 25, 1949, Serial No. 95,320**
**8 Claims. (Cl. 155—53)**

3. In a chair embodying a tubular supporting frame comprising a pair of U-shaped sides having vertically disposed front members and upper and lower pairs of horizontally disposed rearwardly extending members, said lower members being floor engaging members and the uppermost ones being constructed and arranged to form arms for the chair, the combination of front and rear cross members connecting the front vertical members and lower horizontal members respectively, a spring steel seat having underturned U-shaped bends along its front and rear edges with the legs of the U-shaped bends directed toward each



other, means securing the legs of the U-shaped bends along the front edges thereof to the front cross member, a cross member secured to the legs of the U-shaped bends at the rear edges of the



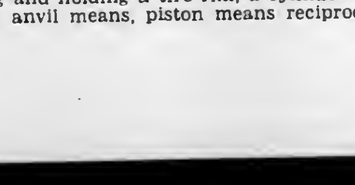
seat, a pair of links connected at their lower ends to said last mentioned cross member and pivotally connected to the rearmost ends of the arms, and a back structure disposed between the arms and secured at its sides to said links.

2,648,373

## FOLDABLE LOUNGE CHAIR

**Forrest M. Hill, Columbus, Ohio**

**Application September 12, 1952, Serial No. 309,298**
**4 Claims. (Cl. 155—142)**



1. A folding lounge chair comprising: a main frame of rectangular configuration, said frame embodying spaced parallel longitudinally extending side rails, upper and lower transverse rung members uniting said side rails contiguous to the opposite ends thereof, flexible webbing secured at the ends thereof to said rung members, said webbing being of such length as to constitute a combined seat and backrest for the chair's occupant, a leg frame embodying a pair of spaced parallel leg members rigidly united by a cross rung, said leg members having the upper ends thereof formed with openings receiving the top rung member of said main frame, said leg frame being turnable about the longitudinal axis of said top rung member, and a movable locking pin slidably positioned in an opening formed in at least one of the rails of said main frame contiguous to said top rung, said pin being received in an opening formed in said leg frame contiguous to the rung member of the main frame on which said leg section is mounted for swinging movement.

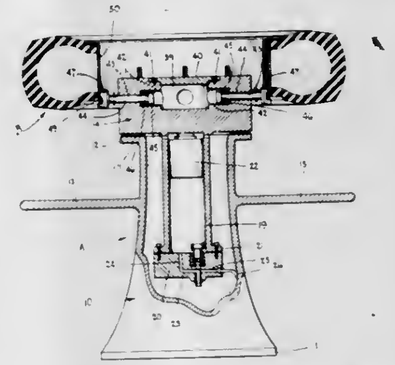
2,648,374

## APPARATUS TO REMOVE TIRES FROM RIMS BY VIBRATION

**Martin O. Qualen, Iowa Falls, Iowa**

**Application June 5, 1947, Serial No. 752,770**
**9 Claims. (Cl. 157—1.1)**

1. A tire removing apparatus for removing a tire from a rim having a separable rim flange comprising a standard, a head supported thereby, said head having anvil means associated therewith, means carried by said head for gripping and holding a tire rim, a cylinder beneath said anvil means, piston means reciprocable in said cylinder, one end of said piston means extending outwardly of said cylinder and being disposed to strike said anvil means at the end of its upward stroke, and means for feeding fluid



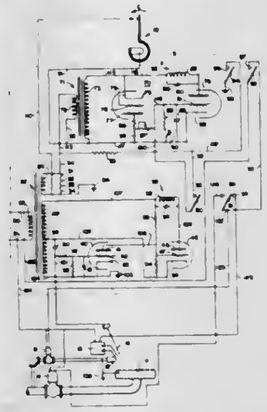
pressure beneath said piston means to successively elevate said piston means at relatively short spaced intervals to produce a series of upwardly propelled strokes of said piston means against said anvil means.

2,648,375

## ELECTRONIC BURNER CONTROL APPARATUS

**Myron R. Smith, Minneapolis, and Harvey J. Smith, St. Louis Park, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**

**Application December 27, 1949, Serial No. 135,122**
**10 Claims. (Cl. 158—28)**

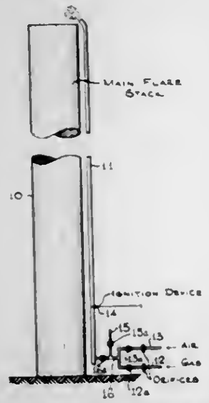


1. Apparatus for controlling a fuel burner, comprising in combination, a source of power comprising a transformer having a high and a low voltage secondary winding, an electronic flame detector connected to be energized by said high voltage secondary winding and comprising a plurality of discharge devices having input and output circuits and having filament heaters, the latter of which are connected to said low voltage secondary winding, an electronic control circuit for initiating operation of the fuel burner, a second transformer comprising a primary and secondary winding, means connecting said last named secondary winding to energize said control

circuit, and circuit means adapted to be completed by low voltage switching means indicative of the need for burner operation for connecting said primary winding to be energized by said low voltage secondary winding.

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2,648,376
**FLARE STACK LIGHTER**
Leo W. Schrader, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 6, 1948, Serial No. 13,417
2 Claims. (Cl. 158—115)

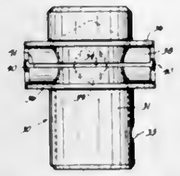



1. In combination with a flare stack for burning waste combustible gaseous compounds, said stack having an outlet a considerable distance above the ground, an ignition means for said compounds, comprising a separate ignition tube of smaller diameter than the stack and coextensive therewith, a discharge end on said tube directed toward and over said stack, conduit means for supplying to said tube a proportioned mixture of an oxygen-containing gas and a combustible gaseous material, including separate conduits for each of said components of the mixture and flow control means therein, igniter means internally of said tube to ignite said gaseous mixture, and a pilot burner element supplied with said mixture from conduit means supplying said tube, separately ignitable to provide for visual inspection of the flame characteristics of said mixture when ignited, said control means being adjustable to permit the flame height at said pilot burner element to be varied to indicate when a pre-determined critical velocity for flame propagation has been reached in said ignition tube, whereby the said proportioned mixture when supplied to said ignition tube avoids introduction of an explosive mixture therein and prevents flash back in said tube.

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2,648,377
**GAS PILOT BURNER AND DRAFT SHIELD**
Charles E. Bodey, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 30, 1947, Serial No. 783,173
13 Claims. (Cl. 158—115)

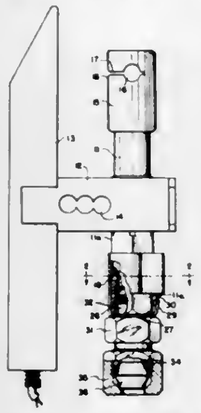
5. A fuel burner comprising a cup-shaped body member having spaced openings adjacent its closed end, a slot in said body member connecting said openings, an orifice member extending through and beyond said openings, and a yoke-shaped draft shield consisting of two parallel spaced U-shaped plates having legs joined across adjacent ends, said shield being so positioned externally of said cup-shaped body that the inner



edges of the U-shaped plates encompass a portion of said body on opposite sides of said slot and the inner surfaces of the joined ends of the plates engage said orifice member.

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2,648,378
**GAS BURNER HAVING SELECTABLE PRIMARY AIR INLETS**
George F. Jenkins, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 29, 1949, Serial No. 135,623
14 Claims. (Cl. 158—118)



9. The combination comprising a burner having diametrically opposed holes for the admission of air, a shield having a sleeve-like member with a first portion thereof shaped so as to be engageable with and extend only half way around said burner when applied thereto and a second portion shaped so as to be spaced from and to extend substantially the rest of the way around the burner, and means for holding said shield on said burner with half of the air holes covered.

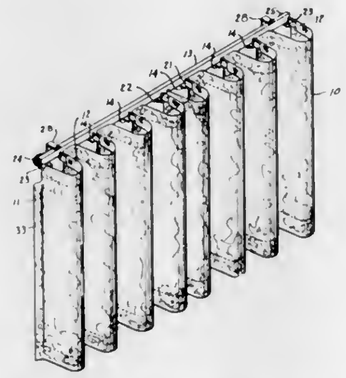
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2,648,379
**DRAPE AND FIXTURE FOR HANGING THE SAME**
Morris C. Bishop, West Orange, N. J.
Application July 20, 1950, Serial No. 174,877
4 Claims. (Cl. 160—341)

1. In a fixture for hanging drapes, in combination, a hollow horizontal track having a longitudinal slot in one side thereof, a plurality of carriages having a longitudinal slot in the rear side thereof slidable horizontally on said track but restrained by said track from vertical rocking, rigid portions on said carriages extending horizontally outward beyond the front side of said



track and a plurality of independent fold-forming members retained on said rigid portions in individually removable relationship and extend-



ing outward therefrom in cantilever relation in front of said track, said members engaging said drapes and to support the same in front of said track.

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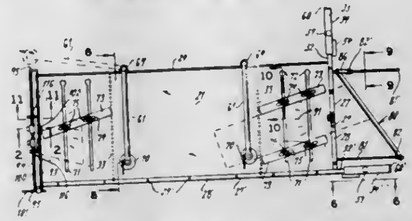
2,648,380
**METHOD OF CUTTING WEB INTO STRIPS**
John E. Socke, Pelham Manor, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application April 28, 1948, Serial No. 23,801
3 Claims. (Cl. 164—17)



3. The method of cutting a plurality of strips from a web of sheet material, each strip containing at least one row of potential blanks arranged in longitudinally spaced relation, each strip also containing potential waste portions disposed exteriorly of said potential blanks, which method consists in initially forming a plurality of spaced feeding and gauging perforations in longitudinal series in said potential waste portions between said potential blanks, simultaneously forming a plurality of spaced strip cutting perforations in longitudinal series in other potential waste portions between adjacent potential strips in the web, advancing the thus initially perforated web by engaging said initially formed feeding and gauging perforations, and cutting the web longitudinally and entirely between said strip cutting perforations simultaneously with the formation of a succeeding plurality of said feeding and gauging perforations and said cutting perforations for progressively dividing the web into a plurality of strips, each strip containing at least one row of potential blanks disposed in longitudinally spaced relation and a plurality of longitudinally spaced feeding and gauging perforations between said potential blanks for subsequent feeding of said strips for removal of blanks therefrom.

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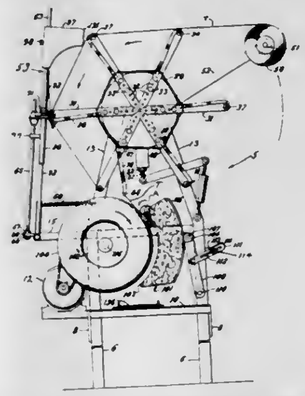
2,648,381
**METHOD OF CUTTING DUCT SECTIONS**
Charles Frank Engel, St. Louis, Mo.
Application March 23, 1950, Serial No. 151,471
3 Claims. (Cl. 164—17)



1. The method of shearing sheet metal strips into bisymmetrical oblique-angled pieces, comprising fixing to a table a pair of abutment bars parallel to each other at sufficient distance to accommodate and guide between them the strip to be sheared and at such angle to the table edge as is desired to be cut, advancing said strip across said table edge, shearing along said table edge, turning said strip over, replacing it between said parallel abutment bars, advancing it such distance that the said table edge marks the desired line of cut, affixing against the first-sheared edge a laterally- and angularly-adjustable gage, shearing along said table edge, removing the piece so sheared, turning over the remainder of said strip, replacing it between said parallel abutment bars, advancing the last-sheared edge against said gage, and repeating the five steps last mentioned until said strip is utilized as fully as is possible.

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2,648,382
**TAPING MACHINE**
Peter J. Dewyer, Libertyville, Ill.
Application April 1, 1950, Serial No. 153,328
7 Claims. (Cl. 164—42)

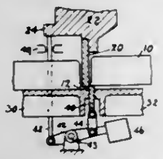


1. Apparatus for withdrawing pressure sensitive adhesive tape from a supply roll thereof, supporting predetermined lengths of the tape from opposite ends while each length of tape is severed, and swingably supporting one end of a severed length of tape after the opposite end has been freed from its support, comprising in combination, a wheel structure, supporting means for said wheel structure whereby it is rotatable about its principal axis, a plurality of tape supporting pins regularly spaced around said wheel structure and projecting at right angles to one

side thereof, said pins serving to in turn engage the adhesive side of said tape as said wheel structure rotates so as to withdraw the same, each of said pins having a longitudinal slot centrally located in the tape engaging surface thereof into which a tape severing knife blade may be projected, a tape supporting finger extending along each of said pins on the side toward which said wheel structure is adapted to rotate in operation, supporting means for each of said fingers whereby it is movable away from the pin with which it is associated in the direction of rotation of said wheel structure, and spring means connected with each of said fingers for pressing it towards its associated pin, each of said fingers serving to assist in withdrawing said tape by engaging the end of a length of tape that is also engaging the adjacent tape supporting pin and to temporarily support said end of the tape after it has been pulled off from the adjacent tape supporting pin when the opposite end of the length of tape has been pulled off from its tape supporting element.

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**2,648,383**
**BLOOM SHEAR**
**Johann Hahn, Brooklyn, N. Y.**
**Application October 17, 1946, Serial No. 703,831**
**In Germany April 3, 1939**
**6 Claims. (Cl. 164—47)**

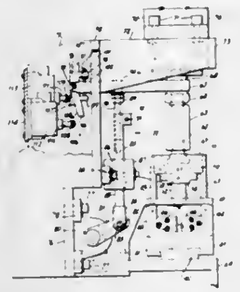


1. Apparatus for severing a bloom comprising a supporting surface for said bloom, a penetrating member positioned above said supporting surface with the forward edges of said member and surface in alignment, a shearing member having an upper surface flush with said supporting surface and abutting the edge thereof, means for moving said penetrating member toward said supporting surface, and means actuated by the downward movement of said penetrating member to actuate said shearing member upwardly into shearing relationship with said penetrating member in the latter portion of the movement of said penetrating member.

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**2,648,384**
**APPARATUS FOR CUTTING TUBING**
**Rea I. Hahn and Bernard E. Frank, Rochester, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Continuation of application Serial No. 43,103, August 7, 1948. This application February 18, 1950, Serial No. 144,976**
**4 Claims. (Cl. 164—49)**

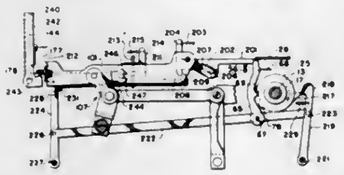
1. Apparatus for cutting tubing which is moved longitudinally by a feeding device, said apparatus comprising a tubing cutter movable transversely of the tubing, a shaft located parallel to the tubing, means supporting the shaft for axial and rotary movements, an abutment member attached to the shaft and located normally in the path of movement of the tubing at a predetermined distance from the cutter, a first device actuated by movement of the shaft axially in response to movement of the abutment member by the tubing for causing advancement of the cutter to cut the tubing, means actuated in response to advancement of the cutter to effect rotation of the shaft to move the abutment member away from the tubing, a spring released for operation in response to said retraction of the abutment member to return the shaft to normal axial position and consequently the abutment member back to a position along side the cut tubing, said movement of the shaft releasing said first device, a second device actuated



during advancement of the cutter for causing retraction of the cutter and release of said second device in consequence of which the cut tubing is moved by the uncut tubing away from the cutter, a second spring released upon retraction of the cutter for return of the member toward normal position, means for ejecting the cut tubing and a third device actuated by movement of the cutter for effecting operation of the ejecting means.

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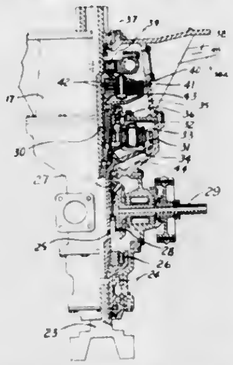
**2,648,385**
**FLOATINGLY MOUNTED PERFORATING APPARATUS**
**Jerome L. De Boo, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware**
**Original application March 18, 1948, Serial No. 15,592, now Patent No. 2,545,198, dated March 13, 1951. Divided and this application January 4, 1949, Serial No. 69,229**
**11 Claims. (Cl. 164—89)**



1. In an apparatus for perforating a control form, a plurality of pivotally mounted punches, a die block having a plurality of open faced slots for cooperating with said punches to perforate the control form, means for normally holding the punches in a nonperforating position, toggle means for moving said punches into said open faced slots to thereby perforate the control form, said toggle means further functioning to withdraw said punches from the control form, and a rotary punch means operated by the breaking of the toggle for punching and advancing the control form while said punches are being withdrawn therefrom, whereby said punches are pivoted against the effect of the holding means by the advancing control form while being moved out of said open faced slots in said die block.



**2,648,386**
**HELICOPTER TRANSMISSION MECHANISM**
**Gage W. Tidd, Doylestown, Pa., assignor to Harris S. Campbell, Bryn Athyn, Pa.**
**Application March 29, 1948, Serial No. 17,645**
**7 Claims. (Cl. 170—135.22)**

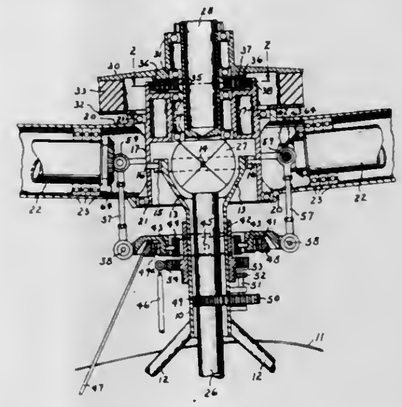


1. A helicopter having a sustaining rotor, a power plant, said rotor being capable of being operated either from said power plant or by aerodynamic actuation during flight, a transmission system between said power plant and said rotor including a drive from the power plant having a freewheel clutch to permit the rotor to continue operation under aerodynamic forces upon reduction of the engine speed below rotor operational speed, a two speed transmission unit including a housing, planetary gearing, an input shaft to said two speed unit normally driven by said power plant through said freewheel clutch, auxiliary rotor take-off gearing connected to said input shaft, an output shaft from said two speed unit to said rotor, a second freewheel device engaging said housing and an element of said two speed unit and arranged to transmit a uni-directional torque therebetween to cause operation of said planetary gearing to drive said output shaft at a reduced speed, and a third freewheel device engaging said input shaft and an element of said two speed unit and arranged to transmit a uni-directional torque therebetween to cause drive of said input shaft when said output shaft is being driven by said rotor.

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**2,648,387**
**ROTOR HEAD**
**Glidden S. Doman, Stamford, Conn., assignor to Doman Helicopters, Inc., a corporation of Delaware**
**Application June 27, 1946, Serial No. 679,695**
**13 Claims. (Cl. 170—135.75)**

1. A rotor head for helicopters and the like comprising a mast adapted to be fixed to the fuselage, a shell having a joint universally mounting the same upon the mast and held against rotation with respect thereto, a blade hub rotatably mounted upon the shell and unrestrained against universal inclination, blades mounted upon the blade hub for pitch angle change upon the longitudinal axis of each blade and with a fixed mounting with respect to all other angular positions, means connected with the blades to change the pitch angle of the latter, a drive shaft extending through the mast and shell and having a universal joint concentric with the shell joint whereby the shaft has an inclinable portion, a bearing carried by the shell and supporting the inclinable portion of the drive shaft, and a gear reduction connection between



the inclinable portion of the drive shaft and the blade hub.

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**2,648,388**
**AIRCRAFT PROPELLER**
**John F. Haines and Clifford B. Wright, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application January 26, 1951, Serial No. 207,946**
**3 Claims. (Cl. 170—159)**



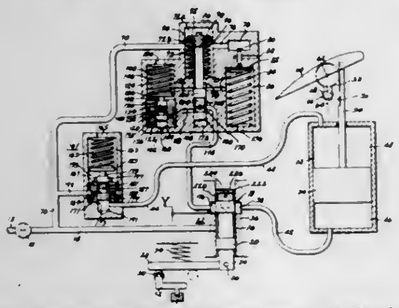
1. An aircraft propeller blade comprising: a main strength-giving metal core member extending substantially the entire length of the blade, said core member having opposite sides of substantially constant chordwise width throughout its entire length, a metal sheath fixed to one side of said core and forming the major portion of the camber side of said blade, a second metal sheath fixed to the opposite side of said core and forming the major portion of the relatively flat side of said blade, the leading portions of said two metal sheaths forward of the core member being indented inwardly so as to be spaced inwardly from the leading edge contour of the air foil section of the blade, and a separately formed shell of relatively hard wear-resisting metal telescoped over said indented leading portions of said two metal sheaths and completing the air foil section of the leading edge of the blade.

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**2,648,389**
**VARIABLE PRESSURE SYSTEM**
**Richard E. Moore, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application June 14, 1947, Serial No. 754,689**
**14 Claims. (Cl. 170—160.21)**

3. In a fluid pressure system for actuating a fluid pressure motor to adjust the pitch of blades on aircraft propellers, through a wide range of angles, comprising in combination, a source of fluid pressure for application to said fluid pressure motor, a flow governor connected to said source of fluid pressure for directing pressure fluid from said source to one side of the fluid pressure motor for holding the motor inactive and for ac-

tuating the motor in opposite directions, said governor having a port connected to one side of said motor, and which port is partially open upon inactive status of said motor, valve means having opposed equal piston areas exposed to source pressure and to the pressure at the said governor port, for maintaining a constant pressure drop across the said governor port, means including a definite orifice and a pressure responsive valve pro-



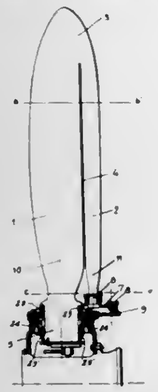
viding a selectively operable constant leak of predetermined magnitude from said governor port, and subject to the control of said first mentioned valve, passage means supplying fluid to said orifice and said pressure responsive valve from said first-mentioned valve and valve means providing diminished source pressure on the opposite side of said motor for opposing the governor directed pressure.

2,648,390

**VARIABLE PITCH SCREW PROPELLER**

**Edmond de Lagabbe, Paris, France**

**Application July 30, 1947, Serial No. 764,711**
**In France March 27, 1945**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires March 27, 1965**
**10 Claims. (Cl. 170—160.24)**



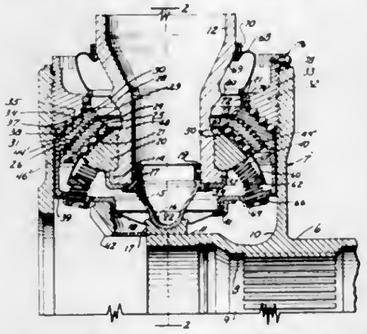
1. A variable pitch propulsion screw comprising a hub, a blade rotatably mounted in said hub, said blade having two spanwise extending portions, the first of which is a relatively rigid main portion and the second portion of which is a flexible portion disposed along said rigid portion, said flexible portion being non-deformably secured to and integral with the tip portion of said rigid portion, pitch varying means connected to the inner end of said blade for changing the pitch of said rigid portion, and means interconnecting the free end of said flexible portion of said blade with said propeller hub and said pitch varying means operable upon the change in pitch of said main portion of said blade to deform, by twisting, said flexible portion in conjunction with the varying of the pitch of the rigid portion.

2,648,391

**ARTICULATED BLADE PROPELLER**

**Maurice E. Cushman, Verona, and Paul J. Kiefer, Jr., Clifton, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware**

**Application March 14, 1951, Serial No. 215,418**
**10 Claims. (Cl. 170—160.52)**



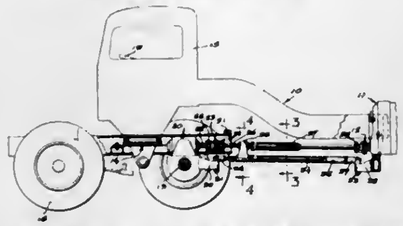
1. An aircraft propeller comprising a hub including a socket extending radially outwardly from the hub axis, an inwardly facing race secured within said socket, a second race having an outer surface in thrust bearing relation to the first race and rotatable relative thereto about the socket axis and having an inner face of spherically segmental form, a propeller blade in said socket having a shank passing through said races and having at its inner end an outwardly facing spherically segmental blade race, a plurality of rollers between and in rolling engagement with said spherically segmental race surfaces enabling articulation of said blade relative to said socket, keying means engageable with and between the second race, the blade race and blade to enforce joint rotation thereof about the socket axis, and means drivably connected to turn said second race to effect changes in pitch of the propeller blade.

2,648,392

**DRIVEN STEERABLE BOGEY FOR MULTIAXLE TRUCKS**

**Wallace M. Brown, Seattle, Wash., assignor to Kenworth Motor Truck Corporation, Seattle, Wash., a corporation of Washington**

**Application July 5, 1950, Serial No. 172,074**
**3 Claims. (Cl. 180—23)**



3. Means for carrying the drive from an engine supported upon a vehicle frame to the live axle of a wheeled swivelling truck giving support to an end of said vehicle frame, comprising a propeller shaft embodying a sliding spline within its length and having single and double universal joints at the opposite ends thereof, the former said joints connecting with the engine so as to establish a driving couple from the engine to the propeller shaft, the latter said joint connecting with the live axle so as to establish a driving couple to the live axle, a stabilizing bar disposed to occupy a position parallel to the propeller shaft and composed of telescoping sections of which the section which lies at the rear has its outer end swivelled for wrist movement about an axis relatively fixed to coincide with a perpendicular passing through the knuckle axis of the single universal joint and of which the section which lies at the front has its outer end swivelled for wrist movement about an axis relatively fixed to coincide with a perpendicular passing through a point midway between the knuckle axes of the double universal joint, and a bearing box made rigid with the front telescoping section of the stabilizing bar and providing a journal for the front-end section of the extensible propeller shaft.

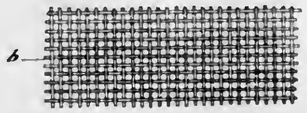


2,648,393

**PROCESS FOR THE RECOVERY OF PLATINUM**

**Hermann Holzmann, Hanau (Main), Germany, assignor to Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler, Frankfurt am Main, Germany, a corporation of Germany**

**Application February 1, 1950, Serial No. 141,700**
**In Switzerland February 3, 1949**
**5 Claims. (Cl. 183—1)**



1. A method for collecting platinum contained in a highly heated gas stream leaving a platinum catalyst which comprises passing such gases over baffles exerting substantially no obstruction to the flow of the gas stream, and having a core comprising at least one metal having an atomic number from 24 to 28, inclusive, and having a surface comprising at least one metal oxide of a metal having an atomic number from 24 to 29, inclusive, and over baffles exerting substantially no obstruction to the flow of the gas stream, and having a core comprising at least one metal having an atomic number from 24 to 28, inclusive, and having a surface comprising at least one noble metal of the group consisting of palladium, platinum, gold and silver.

5. A method for collecting platinum contained in a highly heated gas stream leaving a platinum catalyst which comprises passing such gases over baffles exerting substantially no obstruction to the flow of the gas stream, and having a core comprising at least one metal having an atomic number from 24 to 28, inclusive, and having a surface comprising silver and copper oxide.

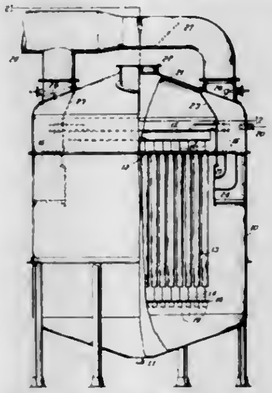
2,648,394

**ELECTRICAL PRECIPITATOR**

**Stuart R. Allan, Somerville, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York**

**Application August 28, 1951, Serial No. 243,956**
**5 Claims. (Cl. 183—7)**

1. In an electrical precipitator including a shell having a horizontal partition therein, a plurality of vertical pipe collecting electrodes and associated discharge electrodes passing through the partition, a gas outlet in the shell above the partition, gas inlet means including a plurality of conduits passing through the top of the shell



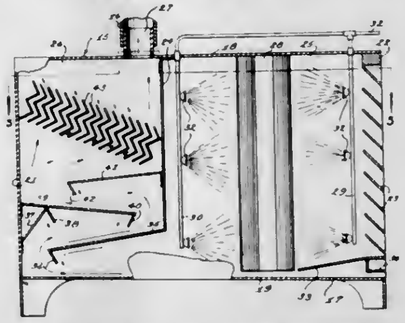
and said horizontal partition to a zone between the pipe collecting electrodes and the side of the shell and gas flow directing means below the partition directing the flow of gas from said conduits laterally between the pipe collecting electrodes.

2,648,395

**AIR CLEANER FOR INTERNAL-COMBUSTION ENGINES**

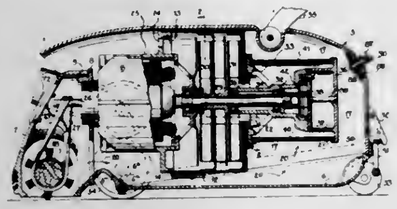
**Harry S. Pond, Jr., Mobile, Ala.**

**Application January 30, 1951, Serial No. 208,633**
**4 Claims. (Cl. 183—22)**



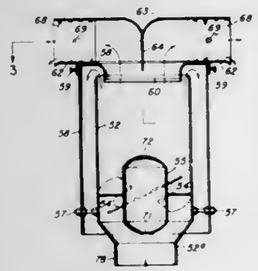
1. An air cleaner for internal combustion engines comprising a housing having a front wall provided with air intake louvers, a transverse partition wall in said housing defining a first air-cleaning space communicating with said louvers, and a second air-cleaning space, means at the intermediate portion of said first air-cleaning space defining horizontally extending tortuous passages connecting the forward portion of said first cleaning space to the rearward portion thereof, respective water spray means in said forward and rearward portions, conduit means connecting said rearward portion to the second air-cleaning space, means in the intermediate portion of the second space defining upwardly extending tortuous passages between the lower portion of the second space and the upper portion thereof, and an air outlet conduit connected to the top wall of said second space.

2,648,396
**VACUUM CLEANER**
James B. Kirby, West Richfield, Ohio
Application February 3, 1949, Serial No. 74,271
2 Claims. (Cl. 183—35)



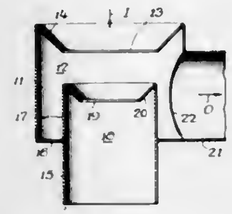
1. A vacuum cleaner comprising a motor, a rotary filter, a fan to move air through said filter, means connecting said filter to said motor including a fluid coupling having driving and driven parts normally turning about a horizontal axis and a coupling fluid chamber coaxial with the fluid coupling parts in communication with the interior of the fluid coupling to receive coupling fluid upon displacement of said axis from its normal horizontal position.

2,648,397
**VAPOR-FROM-LIQUID SEPARATOR APPARATUS**
Thomas Ravese, Port Chester, N. Y., and Earl V. Bentley, Philadelphia, Pa., assignors to Combustion Engineering, Inc., a corporation of Delaware
Application March 9, 1948, Serial No. 13,804
3 Claims. (Cl. 183—91)



1. In a steam separator, an upright primary tube through which steam and water mixture is upwardly passed, means in said primary tube for imparting to said upflowing mixture a whirling motion which throws water therefrom outwardly against the tube wall for discharge over the tube's top edge and which allows moist steam separated from the water to continue upwardly out of the tube's central portion, an upright steam collector sleeve of smaller diameter than said primary tube positioned thereabove to carry said moist steam upwardly from the tube's central portion, an enclosure in communication with the top of said collector sleeve for receiving the steam mixture issuing therefrom and for directing same out of the separator in two opposed paths of substantially horizontal flow, a steam-flow straightening vane extending downwardly from the enclosure top intermediate said opposed paths and across the collector sleeve at its approximate center, a stack of spaced corrugated plates disposed in each of said two opposed flow paths with the plate ridges substantially vertical whereby collector sleeve discharge steam in passing from said enclosure through each stack is by the plates therein subjected to a scrubbing action which transfers from the steam to the vertical plate ridges still further moisture that forms into water drops which run down the ridges, and baffle means extending outwardly from said sleeve beneath the lower edges of the corrugated plates in each of said two stacks to receive said downrunning water and cause same to be carried out of each plate stack at the steam-exit side thereof by the separator discharge steam flowing away from the sleeve above the water between the plates.

2,648,398
**INERTIAL AIR CLEANER**
Alfred S. Chipley, Bokeelia, Fla., assignor to Burgess-Manning Company, Libertyville, Ill., a corporation of Illinois
Application April 21, 1951, Serial No. 222,271
7 Claims. (Cl. 183—105)

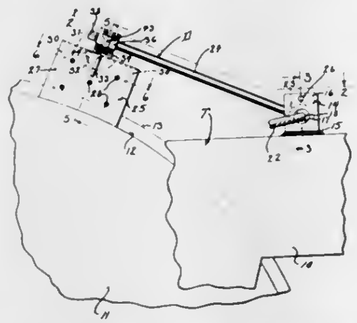


1. In an apparatus for removing entrained particles from air, a shell forming a chamber, an air inlet opening in said shell for the admission of a stream of air into said chamber, said inlet opening providing substantially unobstructed communication of said chamber with the atmosphere, a dust outlet opening in said shell, said dust outlet opening being smaller than said air inlet opening, aligned therewith and spaced therefrom without intervening obstruction a predetermined distance, said dust outlet opening being open to the atmosphere, an air outlet opening in said shell, and evacuation means connected to said air outlet opening, whereby when suction is applied to said evacuation means air will be withdrawn laterally from the space between the air inlet opening and the dust outlet opening, said dust outlet opening being located wholly within the zone of uniform dynamic flow of a stream of air entering said chamber through said air inlet opening and the air outlet opening being located outside of said zone of uniform dynamic flow.

2,648,399
**LUBRICATOR APPLICATOR FOR CAR WHEELS**
Daniel A. Kelly, Milwaukee, Wis., assignor to The Prime Manufacturing Company, Milwaukee, Wis., a corporation
Application April 5, 1951, Serial No. 219,370
8 Claims. (Cl. 184—3)

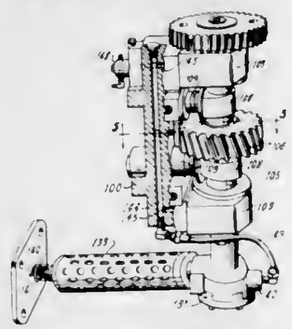
1. In a flange oiler for car wheels, an oil applicator for wiping engagement with the wearing face of the flange of a car wheel including a pad, a bracket adapted to be secured to the frame of a car truck adjacent to the wheel to be oiled, a shaft rockably mounted in the bracket transversely of the car wheel to be lubricated, an oil conducting tube carried by the shaft for movement therewith extending toward and over a car wheel, means connecting the pad to the tube for





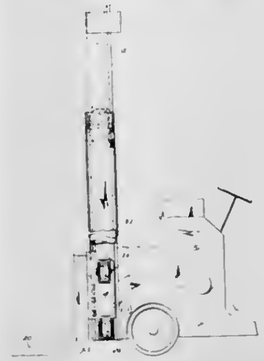
movement therewith and for receiving oil therefrom, and means between the tube and pad for resiliently urging the pad into facial engagement with the flange of a car wheel.

2,648,400
**INTERNAL-COMBUSTION ENGINE LUBRICATING SYSTEM**
John C. Slonneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware
Original application March 14, 1946, Serial No. 654,427. Divided and this application May 1, 1948, Serial No. 24,607
3 Claims. (Cl. 184—6)



1. In an internal combustion engine lubricating system, a camshaft supporting block having oil passages therein, a camshaft journaled in said supporting block, valve lifters carried by the supporting block and reciprocable therein, said valve lifters being engaged and reciprocated by the camshaft, a driven gear carried upon the camshaft for revolving the same and disposed between the valve lifters, the supporting block including oil passages leading to said camshaft for lubricating the same, an oil pump directly connected to one end of said camshaft and carried by said supporting block, an oil conductor connected between the pump and the oil passages of the supporting block, and an excess oil pressure relief valve carried by the camshaft supporting block communicating with the oil passages, said oil pressure relief valve having a discharge port opening exteriorly of the camshaft supporting block and directed toward the periphery of the driven gear for lubricating the same.

2,648,401
**ROLLER STRUCTURE FOR LIFT TRUCK CARRIAGES**
Joseph A. Frischmann, Cleveland, Ohio, assignor to Towmotor Corporation, Cleveland, Ohio, a corporation of Ohio
Application March 31, 1951, Serial No. 218,655
6 Claims. (Cl. 187—85)



6. In a mast and carriage structure for a lift truck, guide means for shiftably carrying the carriage along the mast comprising a pin projecting from the carriage, a yoke affixed to the carriage and carrying the free end of said pin, a roller on said pin engageable with the mast, a head on the pin for sliding engagement with the mast for positioning the carriage laterally relative to the mast, and a shoulder on the yoke adjacent the head of the pin for preventing rotation of the pin as the roller rotates relative to the carriage.

2,648,402
**ICE SWAY CONTROL**
Albert Leslie, Shanesville, Pa.
Application September 15, 1950, Serial No. 185,117
2 Claims. (Cl. 188—5)

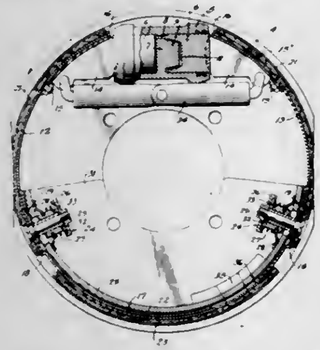


1. In an ice sway control for motor vehicles, a carrier adapted for rigid connection with a motor vehicle, said carrier comprising a sleeve, a rod telescoping into the sleeve and having limited longitudinal movement therein, a spring tending to move the rod outwardly of the sleeve a post non-rotatably mounted on the rod, the post having a shoulder at its lower end, a shoe having a flat face contacting the ground in the normal position of the shoe and having at one end ears between which the lower end of the post extends, a pivot connecting said post

and ears, said ears having shoulders cooperating with the shoulder of the post to limit upward and rearward pivotal movement of the shoe caused by a road obstruction to a forty five degree angle, and a spring between the shoe and post resisting such pivotal movement of the shoe and returning the shoe when released from said road obstruction to its normal position with the flat face of the shoe contacting the ground.

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**2,648,403**
**BRAKE**
**Adiel Y. Dodge, Rockford, Ill.**
**Application May 25, 1948, Serial No. 29,093**
**9 Claims. (Cl. 188—78)**

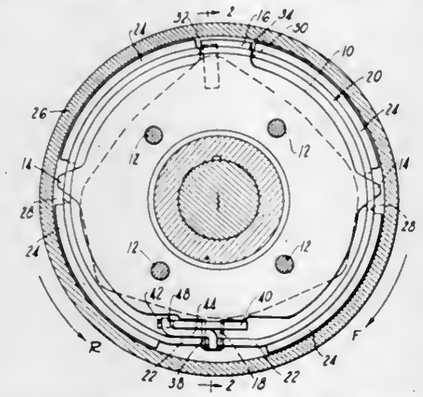


5. A brake comprising a support, actuating means carried by the support, a pair of arcuately curved brake segments movably mounted on the support, one end of each brake segment engaging the actuating means and the other ends of the segments being circumferentially spaced, an operating member detachably connected at its ends to said other ends of the segments, an intermediate segment slidably overlying the operating member, and an abutment on the support engaging the intermediate segment to limit circumferential movement thereof.

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**2,648,404**
**BRAKE**
**Edward K. Dombeck, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application February 24, 1951, Serial No. 212,649**
**13 Claims. (Cl. 188—78)**

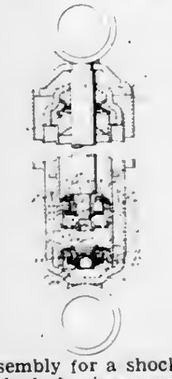
1. For use in cooperation with a rotatable drum, a brake comprising a flat supporting plate which is adapted to be secured to a nonrotatable member and which has a radially outwardly extending anchor projection, an expansible annular band brake shoe having adjacent separable ends and a plurality of circumferentially spaced radial slots, a plurality of radially outwardly extending locating ears on said plate, said ears and said anchor projection extending into respective ones of said slots to laterally position said shoe on said plate, said anchor projection being spaced approximately diametrically from said separable ends, said shoe anchoring on said projection for either direction of rotation of the rotatable drum, a spring interposed between one side of said anchor projection and the respective slot for providing frictional support for said shoe on said supporting plate, a radially outwardly extending post provided on said plate approximately diametrically opposite said anchor and located between said separable ends, a bushing received on said post, a floating cam two shoe-spreading lugs straddling said post, and a manually operable lever journaled on said bushing and having an arm which engages and rotates



said cam to spread said shoe ends, the point of engagement between said arm and said cam lying substantially in the plane of said supporting plate.

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**2,648,405**
**PISTON ASSEMBLY FOR SHOCK ABSORBERS**
**Dale A. Palmer, Monroe, Mich., assignor to Patent Development Company, Monroe, Mich., a partnership**
**Application December 17, 1949, Serial No. 133,588**
**3 Claims. (Cl. 188—88)**



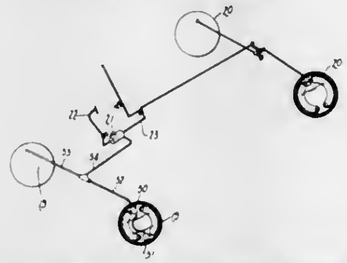
1. A piston assembly for a shock absorber, including a piston body having opposed faces providing valve seats and a peripheral skirt extending beyond one of said faces, a piston rod having one end thereof reduced so as to provide a shoulder intermediate the ends of said rod, said body having a substantially central aperture therethrough, a hollow insert extending through said body aperture and having a portion thereof engaging the other of said valve faces and a portion projecting beyond said one valve face, said reduced piston rod end extending through said insert so that the free end thereof projects beyond the said insert and so that said piston rod shoulder engages said insert adjacent said other piston body face, a retainer element connected with the free end of said piston rod reduced portion and engaging the end of said piston body skirt, so as to retain said piston rod, insert, and said piston body, in an assembled relationship,



valve disk means engaging the valve seat on said one piston face so as to normally prevent the flow of fluid through said passageway in one direction, the projecting end of said insert being spun over into engagement with the inner peripheral portion of said valve disk means so as to normally retain said valve disk in engagement with said valve seat, a second passageway in said piston body, valve means engaging the valve seat of said other valve face for normally preventing the flow of fluid through said second passageway, and resilient means disposed between said insert and said valve means for resiliently retaining said valve means on said valve seat.

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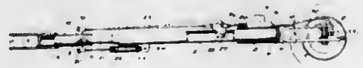
**2,648,406**
**BRAKING SYSTEM FOR VEHICLES**
**Glyn P. Roberts, Wolverhampton, England, assignor to Bendix Aviation Corporation, South Bend, Ind.**
**Application July 31, 1947, Serial No. 765,052**
**In Great Britain December 9, 1938**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires December 9, 1958**
**2 Claims. (Cl. 188—106)**



2. A braking system comprising a set of hydraulically actuated front wheel brakes, a set of mechanically actuated rear wheel brakes, a hydraulic master cylinder device having a pressure creating piston and having a pressure fluid connection with said front wheel brakes, whereby actuation of said device will actuate said front brakes and a mechanical connection between said master cylinder device and said rear brakes for transmitting actuating pressure from said device to said rear brakes, said front and rear wheel brakes thereby being applied simultaneously.

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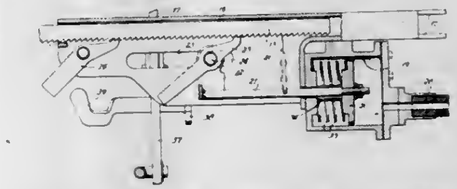
**2,648,407**
**BRAKE CONTROL MEANS FOR TRAILERS**
**Armin W. Schwertner, Vancourt, Tex.**
**Application September 13, 1951, Serial No. 246,379**
**2 Claims. (Cl. 188—112)**



1. The combination with a trailer having a front axle and individual wheel-fluid brake cylinders and brakes and the tractor towing said trailer, of a trailer hitch connecting the trailer and tractor, comprising a main tubular section pivotally connected to the front axle of the trailer, a tubular member slidable over the front end of said tubular section, means for connecting the tubular section with such towing tractor, a booster mounted on the main tubular section adjacent to the trailer, including a cylinder and piston operating in the cylinder, a pipe-line connected between the booster-cylinder and brake cylinders of the trailer wheels, an actuating rod connected with said tubular member, a vertical triangular plate pivotally mounted on said tubular section to which said actuating rod is pivotally connected, and a piston and rod connected between said triangular plate and booster cylinder adapted to force fluid into the brake cylinders of the wheels, applying the brakes of the trailer, and means for equalizing the movements of said rod and piston.

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**2,648,408**
**RAILROAD BRAKE SLACK ADJUSTER**
**William O. Martin, Fort Smith, Ark.**
**Application December 30, 1949, Serial No. 135,898**
**4 Claims. (Cl. 188—200)**



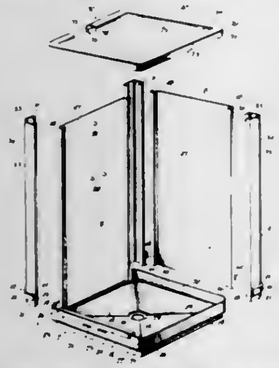
1. In a brake slack adjuster the combination of the live lever, the floating lever of a railroad car brake rigging and the brake air cylinder whose push rod is pivotally connected with the live lever; with a telescopic tie connection between said levers comprising an elongated open ended and open bottom housing pivotally connected at one end to the live lever and a rack bar slidable in said housing and pivotally connected at its outer end to said floating lever; means pivotally mounted against longitudinal travel and in yielding operative relation with said rack bar for preventing outward sliding movement of the rack bar; an auxiliary cylinder with a spring controlled piston whose rod at the outer end is provided with a pivotally mounted pawl which extends upwardly through the housing bottom and is arranged in mesh with the rack bar of said tie connection; a safety latch secured to said piston rod and operatively associated with said rack-bar and adapted to arrest false take-up movement of the rack-bar; and an air conveying connection between one end of said auxiliary cylinder and a port in said air cylinder side wall, said port being arranged beyond the normal travel of the cylinder piston, whereby air will be admitted to said auxiliary cylinder when the brake cylinder piston travels past said port, thereby actuating the auxiliary piston with said safety latch, causing said pawl and safety latch to engage a succeeding tooth and/or teeth of the rack bar and inducing prescribed inward movement of said rack bar upon non-inflow of compressed air into the auxiliary cylinder and the pressure action of the spring in the auxiliary cylinder resulting upon return of the brake cylinder piston to brake releasing position.

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**2,648,409**
**SHOWER CABINET**
**Clyde J. Daugherty and Thomas F. Anderson, Cleveland, Ohio, assignors to The Sanymetal Products Co., Inc., Cleveland, Ohio, a corporation of Ohio**
**Application December 27, 1945, Serial No. 637,368**
**4 Claims. (Cl. 189—2)**

1. An improved shower cabinet including, a receptor pan, a plurality of interchangeable

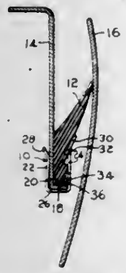
corner sections having similar face portions connected to the receptor pan, and a plurality of interchangeable wall forming panels having similar wall forming facing portions connected to said receptor pan and to said corner sections, each of said corner sections having similar tubular male formations along the vertical side edges thereof interfitting with and received by similar tubular



female formations extending along the adjacent vertical side edges of each of said wall forming panels, each of said tubular male formations presenting an edge portion extending inwardly at right angles to the adjacent facing portion, a flange portion extending from said edge portion substantially parallel to and overlying the adjacent face portion, and a rebent portion extending parallel to and overlying said flange portion.

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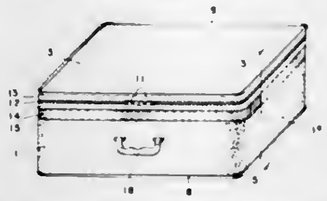
**2,648,410**
**FASTENING DEVICE**
**William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application August 1, 1951, Serial No. 239,816**
**2 Claims. (Cl. 189—36)**




2. A fastener assembly, comprising a support plate having a flange at one edge which extends substantially normal thereto, a resilient rubber-like member superimposed on the side of the support having the flange and being seated against the flange, said resilient member being exposed on the side opposite the support, and a U-support fastening clip formed of resilient sheet metal retaining the resilient member on the support, said clip comprising a pair of collateral arms normally spaced apart less than the combined thickness of the support and the resilient member, said arms embracing the support and the resilient member so that one arm bears against the support and one arm bears against the resilient member, said arms being joined by a connecting portion extending around the flange, the arm bearing against the resilient member having an outwardly inclined end portion and a pair of tongues formed in the edges thereof which are inward extensions of the outwardly inclined end portion so as to extend generally toward the connecting portion and to be inclined toward the other arm, said tongue being disposed in digging engagement with the resilient member, and a locking tab formed from the same arm in longitudinal spaced relation to the tongues, said tab extending generally toward the connecting portion and being inclined toward the other arm, and being disposed in snapping engagement over the edge of the flange, said other arm being substantially smooth throughout its length and having an outwardly inclined end portion.

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**2,648,411**
**SOFT SIDED SUITCASE**
**Irving Joseph Meyers, Richmond, Va.**
**Application April 27, 1951, Serial No. 223,354**
**2 Claims. (Cl. 190—41)**



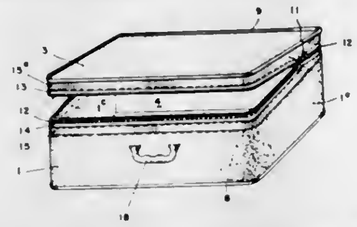
1. An article of luggage comprising a rigid frame constituting an interior peripheral supporting wall and defining the opposite sides, one of said sides being openable, a permanent covering extending over the side opposite the open side over the exterior surface of said frame, and over the edge of the open side of said frame, said covering being attached to said frame adjacent said edge, a lid for said article constituting a closure for the open side, said lid being of flexible material and having an edge portion hingedly secured to a portion of said covering at the edge of the open side of said frame; said lid, when in the closed position, engaging the covered edge of the open side of said frame, a slide fastener having two rows of interlocking parts for securing the remaining edge portion of said lid against the remaining covered edge portion of the open side of said frame, a tape mounting one row of the interlocking parts and being supported from said covering material of said frame along a peripheral line intermediate that portion of said covering attached to said frame and that side opposite the open side, a tape mounting the other row of interlocking parts and being supported from the peripheral edges of said lid, and a peripheral strip of elastically stretchable material being positioned between at least one of said tapes and its respective supporting medium, and connecting said tape thereto.

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**2,648,412**
**SUITCASE WITH SOFT SIDES**
**Irving Joseph Meyers, Richmond, Va.**
**Application May 18, 1951, Serial No. 227,025**
**2 Claims. (Cl. 190—41)**

1. An article of luggage comprising a main section and a lid section and being open on its lower side, a first rigid frame constituting a peripheral supporting wall of said main section, a section rigid frame constituting a peripheral supporting wall of said lid section and being open on its upper side, said first and said second frames also being open on their meeting sides, permanent sheet material coverings stretched over the exterior of said frames over the open upper side of said lid frame and over the open lower side of said main frame, said coverings also extending over the meeting edges of said frame, and having portions attached to the respective frames adjacent said meeting edges, said lid section being pivotally mounted with respect to said main section by means comprising a strip of sheet material, said strip extending along a portion of the peripheral supporting wall and from said upper to said lower sides, and being secured to the cov-

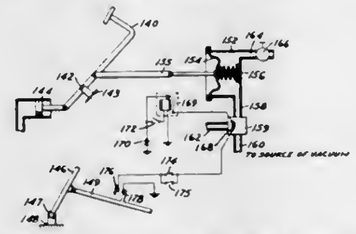




erings on both said main section and said lid section, and slide fastener means for securing the meeting edges of the lid section to the meeting edges of the side walls, said slide fastener means extending peripherally from one end of said hinge strip to the opposite end thereof, and including two rows of interlocking parts carried by upper and lower mounting strips, each said mounting strip having opposite peripheral edges connected respectively to the sheet material covering stretched across said frames, and elastically stretchable material associated with at least one of said mounting strips and located between the row of interlocking parts carried by said one mounting strip and the connected edge of said one mounting strip, said elastically stretchable material extending the peripheral length of one mounting strip.

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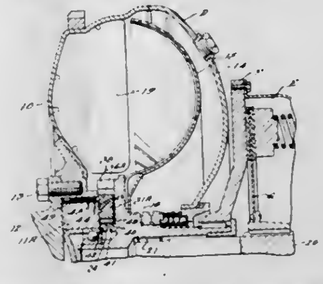
**2,648,413**
**BRAKING SYSTEM**
**John D. Russell, Los Angeles, Calif.**
**Application October 15, 1949, Serial No. 121,546**
**2 Claims. (Cl. 192—3)**



1. In a motor vehicle having a battery, an accelerator pedal to control the speed of the vehicle motor, braking means associated with the vehicle wheels, and a brake pedal operable by depression to apply the braking means, the combination comprising a housing, a flexible spring-loaded diaphragm sealed across the housing and forming a chamber therein, a shaft connected at one end to said diaphragm and at the other end to said brake pedal, a source of vacuum, an electrically actuated valve operable to connect said chamber alternately to said source of vacuum and to atmosphere, a grounded electrical contact mounted to move responsive to motion of said accelerator pedal, a stationary electrical contact mounted in the path of motion of said grounded electrical contact, the stationary contact being connected through a manual control switch to one side of said electrically actuated valve, the other side of said electrically actuated valve being connected to said battery through a relay operable responsive to closing the vehicle ignition switch to close the circuit between said battery and said valve.

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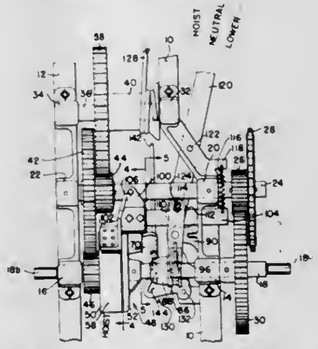
**2,648,414**
**DRIVE CONTROL MECHANISM**
**Edwin R. Maurer, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application December 18, 1947, Serial No. 792,466**
**27 Claims. (Cl. 192—3.2)**



1. In combination, a fluid drive mechanism including a pair of rotatable fluid connected members, a lock-up device for locking said members together for two-way positive drive when said members are rotating below a predetermined speed, and a second lock-up device for locking said members together when said members are rotating above a second predetermined speed.

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**2,648,415**
**CLUTCH AND BRAKE MECHANISM AND COORDINATED CONTROL THEREFOR**
**Leonard B. Neighbour and Orville P. Lance, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application March 8, 1950, Serial No. 148,487**
**3 Claims. (Cl. 192—17)**

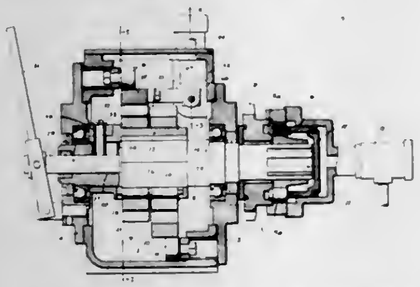



1. Driving mechanism, comprising: support means; selectively connectible and disconnectible

clutch means journaled on the support means and including driving and driven parts; selectively engageable and disengageable brake means carried on the support means and including a first brake part rotatable with the clutch means driven part and a non-rotatable second brake part pivoted on the support means selectively movable into and out of engagement with the first brake part; a first lever connected to the clutch means, and means mounting said lever on the support means for rocking in one direction from a neutral position effecting disconnection of the clutch means, to a first active position effecting connection of the clutch means, and, selectively, in the opposite direction from said neutral position to also effect disconnection of the clutch means; a second lever pivoted on the support means and connected to the second brake part to move the second brake part selectively into and out of engagement with the first brake part, said second lever extending from its pivot in intersecting relation to the first lever; means biasing the second lever in one direction to effect engagement of the brake parts; and cooperative interengageable means respectively on the first and second levers and including a low cam portion between a pair of spaced apart high cam portions on the second lever, one high portion lying at each side of the intersection of the levers, and a cam element on the first lever normally positioned in said low cam portion and shiftable with the first lever so that rocking of the first lever to either of its active positions effects rocking of the second lever to cause disengagement of the brake parts, said low portion accommodating biased movement of the second lever for causing engagament of the brake parts when the first lever is in its neutral position.

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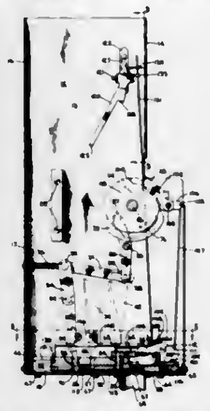
**2,648,416**
**REVERSIBLE CLUTCH FOR HYDRAULIC POWER MECHANISM**
**Frank W. Krueger, Saratoga, Calif., assignor to Be-Ge Manufacturing Co., Gilroy, Calif., a corporation of California**
**Application September 11, 1950, Serial No. 184,160**
**1 Claim. (Cl. 192—44)**



In a power mechanism which includes a rotary shaft and a rotary member concentric with and through which the shaft projects; a reversible clutch connection between the shaft and member and comprising a cage turnable on an intermediate portion of the shaft and on which the rotary member is turnably supported, a hub projecting from the cage and turnable on one end portion of the shaft ahead of said intermediate portion and the rotary member, reversible clutch connection means between the cage and shaft and actuated upon rotation of the cage relative to the shaft, means to so rotate the cage including a rod slidable in said end portion of the shaft and projecting therefrom for push-pull manipulation, a casing enclosing the cage, rotary member and hub and in which the shaft beyond the hub is journaled, a lever outside the casing and disposed at right angles to the rod, a pivotal mount for the lever on the casing, and a connection between the rod and lever to slide the rod upon reciprocation of the lever.

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**2,648,417**
**COIN-CONTROLLED MECHANISM**
**Harry S. Chliders, Fresno, Calif., assignor to Vendorlator Manufacturing Company, Fresno, Calif.**
**Application January 14, 1949, Serial No. 70,994**
**13 Claims. (Cl. 194—80)**



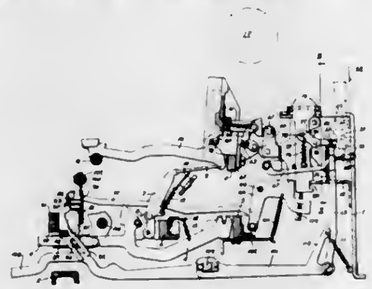
1. In a change making mechanism having a magazine adapted to contain coins for change making purposes, receiving means for coins for which change is to be made, and means for withdrawing a predetermined quantity of coins from the magazine in response to insertion of a coin in the receiving means reciprocally positioned between the magazine and a coin releasing position; the combination of a detector pivotally mounted for oscillatory movement between a position within the magazine and a position removed therefrom eccentrically of its center of balance and gravitationally urged to the position within the magazine, a cam member having driven connection with the withdrawing means engaged with the detector and retracting the detector from the magazine upon movement of the withdrawing means to coin releasing position, a rejector finger mounted for reciprocal movement between a position in blocking relation to the receiving means and a position removed therefrom, and a linkage interconnecting the detector and the rejecting finger and positioning said rejecting finger in blocking relation to the receiving means when the detector is positioned within the magazine, the detector being blocked from the magazine by coins in excess of a predetermined number contained by the magazine.

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**2,648,418**
**VARIABLE ESCAPEMENT FOR TYPEWRITERS**
**Frederick W. Schremp, Elmira, N. Y., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware**
**Application May 3, 1949, Serial No. 91,126**
**5 Claims. (Cl. 197—84)**

1. In a typewriter having a plurality of type actions, each including a key lever and a case shiftable type bar, a carriage movably mounted on a frame and normally operated in one direction, an escapement mechanism including an escapement wheel, a rocker having movable and fixed dogs cooperating with said escapement wheel in the movement of the rocker for producing letter spacing movements of the carriage, a pair of fixed stops mounted in spaced relation on said rocker at opposite ends of said movable dog for limiting movement thereof in relation to the fixed dog for cooperation in securing a fixed letter spacing movement of the carriage, and a universal bar actuated in the operation of each type action to oscillate said rocker to produce a letter spacing operation of the carriage, a movable stop pivotally mounted on said rocker and movable into and out of an operative position between said fixed stops for engagement with one end of the movable dog to limit the operation thereof in cooperation with the fixed stop on the opposite side of said movable dog to produce a



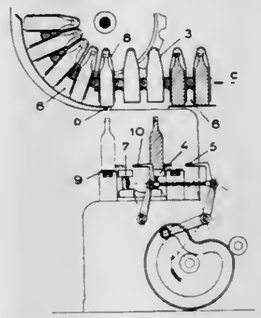


smaller letter spacing operation of the carriage than the spacing obtained in the cooperation of the fixed stops, a supplemental universal bar movably mounted on said typewriter and connected to said movable stop for moving it into operative movable dog engaging position in the movement of said supplemental universal bar, a plurality of selector levers each mounted for engagement of one end with and operation by a selected key lever while the opposite end is positioned to engage and move said supplemental universal bar in operation by said key lever, and means on said supplemental universal bar movable selectively between operative and inoperative positions, engageable by said opposite ends of said selector levers in operative position and selectively controlling a supplemental universal bar operation by said selector levers in the operation of selected key levers for selectively operating said movable stop to produce smaller letter spacing movements of the carriage in the operation of said typewriter.

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**2,648,419**
**AUTOMATIC LOADING DEVICE FOR BOTTLES AND THE LIKE CONTAINERS**
**René Détrez, Nogent-sur-Marne, France**
**Application August 5, 1949, Serial No. 108,731**
**In France August 6, 1948**
**6 Claims. (Cl. 198—24)**

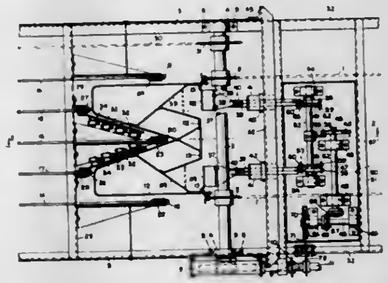
1. Article handling apparatus, for handling articles such as bottles and the like, comprising, in combination, a plurality of open-bottom article holders mounted on the apparatus for movement along a predetermined, straight, horizontal path; a stationary support having a top surface located directly beneath said path and having a horizontal free edge; moving means operatively connected to said article holders for continually moving the same, during operation of the apparatus, at a predetermined speed along said horizontal path toward said free edge of said top surface of said support and over the latter; a platform located beneath one of said article holders and being mounted on the apparatus for movement along an oblique, straight path, inclined to said horizontal path and located in a vertical plane including the latter, from a lowermost position to an uppermost position located alongside of said free edge of said top surface of said support, said platform having a horizontal surface adapted to support articles and the like in an erect position and located at substantially the same level as said free edge of said support when said platform is in said uppermost




position thereof; raising means operatively connected to said platform for raising the same along said oblique path at a speed having a horizontal component equal to said predetermined speed of said article holders so that an article on said platform may move into said one article holder while simultaneously moving horizontally with the same along said horizontal path and said article holder moving an article from said platform, when the latter is in said uppermost position thereof, onto said top surface of said support; and supply means located adjacent to said platform, when the latter is in said lowermost position thereof, for supplying articles thereto.

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**2,648,420**
**UNLOADER FOR WICKET-TYPE CONVEYERS**
**William L. Best, Detroit, and Charles H. Lisch, Jr., Grosse Pointe Woods, Mich., assignors to Young Brothers Company, Detroit, Mich., a corporation of Michigan**
**Application November 26, 1949, Serial No. 129,656**
**14 Claims. (Cl. 198—24)**

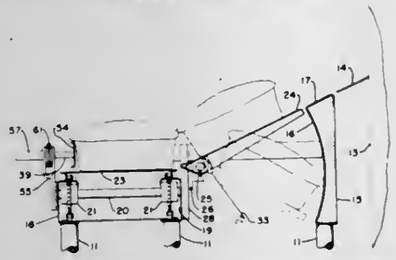


1. The combination of an endless conveyor, having courses lying one above the other, wicket-type racks carried thereby in closely spaced relation for supporting sheet material on edge, an

endless travelling take-off belt located at the work discharging end of said conveyor and arranged in tandem therewith to receive and carry away such sheet material deposited flatwise thereon from said respective racks, pusher means positioned at the work discharging end of said conveyor and adapted to be reciprocated longitudinally thereof, means operative to drive said belt at a speed greater than, and proportional to, the speed of said conveyor, whereby to accommodate singly the sheets deposited flatwise thereon, and drive means operative to reciprocate said pusher means in timed relation to the travel of said conveyor to engage each sheet deposited on said belt and impart a velocity thereto substantially equal in magnitude and direction to the velocity at which said belt is travelling, whereby initial slippage between said belt and sheets is obviated, and then to retract said pusher means from the path of the next succeeding sheet.

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**2,648,421**
**UNLOADING CONVEYER**
**Carl M. Vitz, York, Pa., assignor to Read Standard Corporation, New York, N. Y., a corporation of Delaware**
**Application August 22, 1951, Serial No. 243,043**
**3 Claims. (Cl. 198—32)**

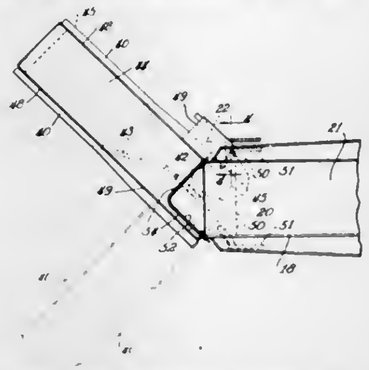


1. In a device of the character described, an endless conveyor movable along a horizontal path, a platform pivotally mounted adjacent one side of said conveyor adapted to receive multiple rows of products, motive means for oscillating said platform upwardly to a position sloped at an angle to permit products to slide forwardly thereacross by gravity onto said conveyor and downwardly to a position precluding such forwardly sliding movement, separate and independent motive means for operating said conveyor, and synchronous control means for the two separate and independent motive means arranged to operate said conveyor simultaneously with downward pivotal movement of said platform and to interrupt operation of said conveyor simultaneously with upward pivotal movement of said platform.

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**2,648,422**
**SWIVEL CONVEYER AND MEANS FOR MOUNTING AND DRIVING THE SAME**
**Robert W. Kling, Chicago, Ill., assignor to Athey Products Corporation, Chicago, Ill., a corporation of Illinois**
**Application July 28, 1950, Serial No. 176,336**
**3 Claims. (Cl. 198—99)**

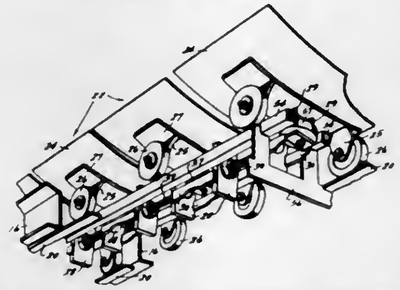
3. In an apparatus of the type described, the combination of a conveyor for carrying materials longitudinally of the apparatus and into elevated position thereon, a turntable rotatably mounted on a vertical axis on said apparatus, a second conveyor pivotally mounted on a horizontal axis on said turntable, upwardly positioned side board members pivotally mounted on axes extending longitudinally of said second conveyor and normally held yieldingly in raised position, means for giving said second conveyor swinging movements about the axis of said turntable, and arms car-



ried by said machine at opposite sides thereof in position to engage the side board member at either side of the apparatus when the second conveyor is swung toward that side whereby said side board member is swung downwardly out of the way.

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**2,648,423**
**ENDLESS BELT CONVEYER**
**Theodore R. Black, Tipp City, Ohio**
**Application April 16, 1949, Serial No. 87,859**
**1 Claim. (Cl. 198—196)**



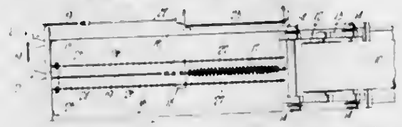
A conveyor comprising an elongate frame, laterally spaced track members supported by and extending lengthwise of said frame, pulleys rotatably supported adjacent the respective ends of said frame, a load supporting belt extending about said pulleys and comprising a plurality of load supporting members movably supported on said track members, rigid elements secured to and depending from the respective load supporting members and each having an opening therethrough, means for flexibly connecting depending elements of adjacent load supporting members, each such means including a second of cable, bushings on the respective ends of said cable and mounted in the respective openings, each bushing having a flared outer end portion, a flange on said flared end portion to engage the depending element, said bushing also having a portion fitting in said opening and an externally screw threaded inner end portion, means to expand the end of said cable in the flared portion of said bushing, and a nut on said threaded portion of said bushing to draw said flange into



tight engagement with said depending element, said opening having an enlarged upper portion through which the flanged end of said bushing may pass, and means for actuating said belt.

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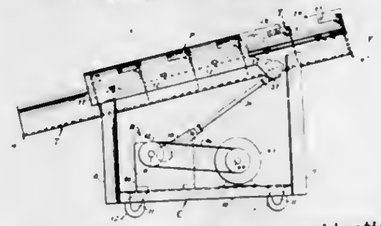
**2,648,424**
**TENSIONING DEVICE FOR CONVEYER BELTS**
**Robert N. Bateman, Duluth, Minn., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application March 15, 1950, Serial No. 149,678**
**1 Claim. (Cl. 198—208)**



A tensioning device for a conveyor belt comprising a fixed stand having a pair of spaced apart longitudinally extending rails and a transverse end member connected between said rails, a carriage having rollers movably mounted on said rails and a take-up pulley for the belt, an initially tensioned coil spring attached at one end to said carriage, a yoke attached to the other end of said spring, a flexible cable attached to said yoke, a pair of pulleys mounted on the outside of said end member and being rotatable on vertical axes, said cable extending past said end member, around said pulleys and back along the outside of one of said rails, a fluid pressure cylinder fixed to the outside of this rail, a piston reciprocable in said cylinder and connected to said cable for pulling the cable and thereby developing tension in said spring, flexible elements extending between said yoke and said end member on opposite sides of said cable for positively holding the spring and belt under the tension thus developed, and flexible means connected between said yoke and said carriage on opposite sides of said spring for restraining the carriage in the event of failure of said spring, the spacing between the coils of said spring furnishing a measure of the tension therein.

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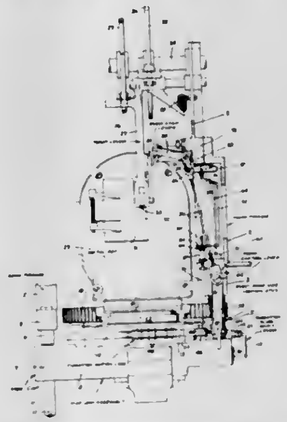
**2,648,425**
**DISCHARGING APPARATUS**
**Arthur M. Perrin, New York, N. Y.**
**Application May 23, 1946, Serial No. 671,863**
**9 Claims. (Cl. 198—224)**



1. Apparatus comprising in combination, a portable carriage; a frame on said carriage; a trough stationarily attached to said frame; a pusher frame adapted to be reciprocated relatively to said trough; power-operated crank mechanism on said carriage; means connecting said crank mechanism to said pusher frame for causing said pusher frame to be reciprocated when said crank mechanism is operated; a plurality of substantially equally-spaced pusher members attached to said pusher frame; means for maintaining said pusher members in material-advancing position during the one stroke of said frame; and individual means for each pusher member, separate from said reciprocating means, independent of the material being handled and effective incident to the non-advancing stoke of said frame for feathering said pusher members to material-disengaging position during the other stroke of said frame.

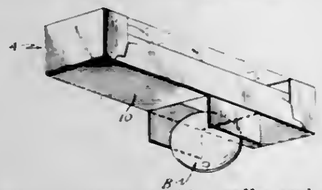
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**2,648,426**
**ATTACHMENT FOR LINE CASTING MACHINES**
**Joseph F. Hazzard and Gene R. Brusseau, Minneapolis, Minn.**
**Application August 2, 1950, Serial No. 177,266**
**9 Claims. (Cl. 199—53)**



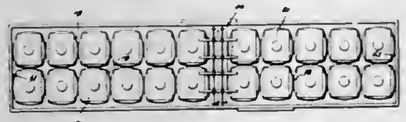
1. The combination with a line casting machine comprising a mold, a mold disk slide, a metal pot, a pump having an operating lever, means for operating the pump lever, a pump stop lever for normally locking the pump lever against movement, a vise jaw assembly including a fixed jaw and a relatively movable jaw, and a vise locking stud secured in the machine frame adapted to interlock with means on the vise jaw asembly to secure said assembly in line casting position with respect to the mold, of a mechanism for preventing operation of the pump in the event that an over-length line of matrices is inserted between the vise jaws, said mechanism including means for normally locking the pump stop lever against movement, an element mounted for longitudinal sliding movement on the vise locking stud and having an operative connection with said locking means, an abutment on said element normally positioned out of alignment with the movable vise jaw, said element also having an operative connection with the mold disk slide whereby when a normal length line of matrices is inserted between the vise jaws and the mold disk slide is moved into casting engagement with the mold, said element is actuated to move said abutment into alignment with the movable vise jaw to provide a backing therefor, actuation of said element also causing said locking means to be operated to effect the release of the pump stop lever and permit the pump to function, and means carried by the movable vise jaw and movable therewith into the path of said abutment to prevent actuation of said element and the subsequent release of the pump stop lever, should an over-length line of matrices be inserted between the vise jaws.

**2,648,427**
**DISPLAY CARTON**
**Cary J. Langford, White Bear Lake, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota**
**Application November 4, 1949, Serial No. 125,439**
**1 Claim. (Cl. 206—45.31)**



A carton including side walls and a bottom panel, said side walls being connected to the bottom panel along fold lines, a transparent covering for said carton secured to said side walls and extending across the top of the carton, and leaving a portion of the bottom of the carton uncovered, a pair of spaced perforated lines in the uncovered portion of the bottom panel connecting two opposed fold lines connecting said bottom panel to opposed side walls, and a perforated line connecting said spaced perforated lines and positioned between said opposed fold lines.

**2,648,428**
**SHIPPING CONTAINER**
**Frank J. White, Seattle, and Carl William Scott, Kirkland, Wash., assignors to Tote Engineering, Inc., Seattle, Wash., a corporation of Washington**
**Application October 12, 1948, Serial No. 54,114**
**1 Claim. (Cl. 206—56)**



A package of granular material and a container therefor, said container comprising a relatively rigid and substantially rectangular bottom member, leg members extending from each corner of the said bottom member and supporting said bottom member and at an elevation to accommodate the tine of a lift truck below said bottom member and between said leg members; a substantially rectangular rigid top member corresponding in shape to the bottom member and having a loading opening therein; a body member substantially rectangular in horizontal cross section and rigidly joined to said bottom and top members, said body member being formed from a relatively thin, flexible, and continuous metallic sheet with the side walls of said body member being smooth and planar when the container is empty and being the sole connection between said top and bottom members, and permitting outward deflection of said side members intermediate the height thereof by the weight and movement of a granular bulk load in the bin, the said granular material being disposed in said container and bulging the said side members both vertically and horizontally; whereby a plurality of said loaded bins can be aligned with deflected side portions abutting and shock or jar on an outer bin thereof will be dissipated by inward movement of said deflected side members and thus said shock or jar is substantially completely resisted by the granular bulk load; and an unloading opening provided in a side wall of the bin and adjacent the bottom wall thereof, whereby the bin may be loaded with granular material when the same is supported by its leg members on a substantially even support and the bin may be unloaded by tilting the same so that the lower portion of the unloading opening is relatively lower than the bottom of the bin.

**2,648,429**
**DISPENSER**
**William C. Smith, Park Ridge, Ill., assignor to Chicago Carton Company, Chicago, Ill., a corporation of Delaware**
**Application December 29, 1949, Serial No. 135,636**
**4 Claims. (Cl. 206—56)**

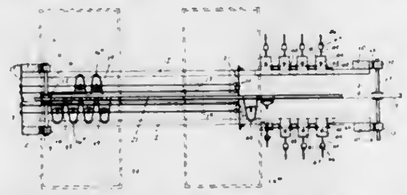


1. A dispensing container for ice cream cones comprising a vertically elongated receptacle adapted to house a stack of upright nested ice cream cones which have upper end edges disposed in planes more or less inclined to the axes of the cones with the planes of successive cones being disposed in more or less irregular, nonparallel relationship, whereby irregularly arranged, tapering width, upper end portions of the nested cones are exposed in the stack, and a cone-dispensing and stack-supporting structure in said receptacle adjacent the lower end thereof, said dispensing and supporting structure having vertically-spaced upper and lower walls extending transversely of the length of the receptacle, said walls being provided with vertically-aligned openings through which cones are downwardly withdrawable from the receptacle, said walls having resilient tabs extending from the edges of said aligned openings toward the axis thereof, said tabs being deflectable downwardly by cones drawn downwardly through said openings, the spacing of said walls being such as to enable tabs on both of said walls to simultaneously engage a single cone, said tabs on the upper of said walls being operable to engage the exposed upper end portion of the cone immediately following the cone being withdrawn before the latter is fully withdrawn through the opening in the uppermost wall, thereby to resist and initiate retardation of the downward movement of the stack remaining above the cone being withdrawn, the continued withdrawal of said lowermost cone serving to effect enlargement of the depth of the exposed portion of said following cone, and tabs on the lower wall being operable to engage the exposed portion of said following cone before withdrawal of the lowermost cone is completed, thereby to further retard the downward movement of the stack and, in cooperation with the tabs on said upper wall, to stop the downward movement of the stack.

**2,648,430**
**EGG CANDLING AND GRADING APPARATUS**
**Van Wilson, Lebanon, Ind.**
**Application October 23, 1947, Serial No. 781,647**
**10 Claims. (Cl. 209—71)**

1. In an egg handling apparatus, a conveyor element movable longitudinally of itself, a longitudinal support spaced from said conveyor element, a plurality of egg conveying elements pivotally supported on said conveyor element on longitudinal axes and supported by said support against pivotal movement from egg-conveying position, said egg-conveying elements comprising an elevated guiding frame and a depending central egg support, a pair of longitudinal rails disposed beneath said guiding frames along a portion of the path of said egg-conveying ele-



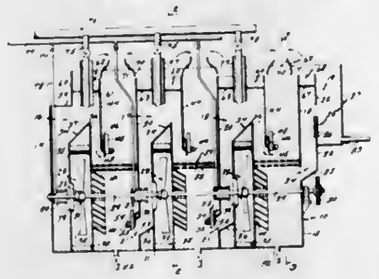


ments in position to support eggs within said frames and elevated above the depending egg supports, said frames being positioned to roll eggs along said track over said path-portion, said conveyer egg supports being moved to receive the eggs from the track whereby such eggs are subsequently supported wholly by said egg-conveying elements in positions therein predetermined by the positions of the eggs on said rails.

**2,648,431**
**CONCENTRATION OF COPPER OXIDE ORES WITH NITRITES**
**Joseph J. Kasevniak, Magna, Utah**
**No Drawing. Application August 30, 1950, Serial No. 182,430**
**4 Claims. (Cl. 209—166)**

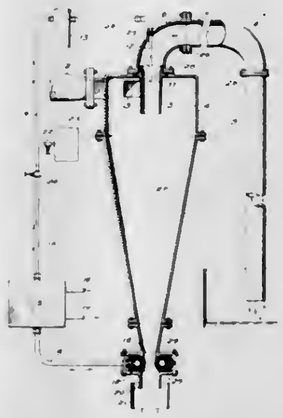
1. In the method of concentrating ores containing copper oxide by flotation processes, the step of conditioning the ore with a metal nitrite selected from the group consisting of ammonium nitrite, alkali metal nitrites and alkali earth metal nitrites in preparation for the froth flotation thereof with suitable frothers, sulphidizers and collectors for sulphide ores.

**2,648,432**
**FLOTATION APPARATUS**
**Adolphe Zarn, Zurich, Switzerland, assignor to Societe Jaruza A. G. Chur, Zurich, Switzerland, a Swiss company**
**Application November 22, 1949, Serial No. 128,697**
**In Belgium November 23, 1948**
**6 Claims. (Cl. 209—168)**



1. Flotation apparatus comprising an elongated vat having side, end and bottom walls, a plurality of laterally spaced partition walls extending upwardly from the bottom of the vat and from side to side thereof dividing the vat into a plurality of alternate pulp receiving and froth separating compartments, each of said partition walls having an opening formed therein adjacent its bottom end for the passage of pulp; conduits for supplying pulp and air to the first of said pulp receiving compartments; a rotatable shaft extending longitudinally of the vat and having a plurality of rotatable stirrers fixed thereon, one in each pulp receiving compartment, each of said stirrers having blades shaped and positioned to agitate and aerate the pulp and force it into the adjacent froth separating compartment; housing means around each of said stirrers to confine its agitating and aerating action to the space therein; screen members in the froth separating compartments above said openings to prevent turbulence in the upper portions of said separating compartments; means, including troughs, for evacuating the froth from each of said froth separating compartments; and means, including a conduit, for withdrawing the tailings from the last of said froth separating compartments, the construction and arrangement being such that, as the pulp moves through the vat, it will pass through in succession, a series of alternate pulp receiving compartments and froth separating compartments, so that it will be successively agitated and aerated by the stirrers in the pulp receiving compartments and maintained in a quiescent state in the froth separating compartments.

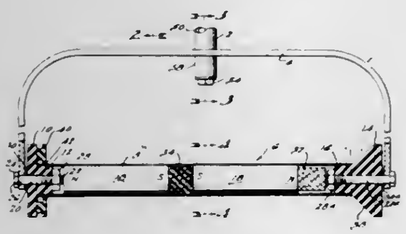
**2,648,433**
**PROCESS AND APPARATUS FOR CONTROLLING THE DENSITY OF THE APEX DISCHARGE OF A CYCLONE**
**Orrin Hughitt Wright and Joseph Leonard Weaver, Brewster, Fla., and Elliot Bryant Fitch, Westport, Conn.; said Wright and said Weaver assignors, by mesne assignments, to Naamloze Vennootschap Maatschappij voor Kolenberwerking Stamicarbon, Heerlen, Netherlands, and said Fitch assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware**
**Application December 5, 1950, Serial No. 199,309**
**17 Claims. (Cl. 209—211)**



1. A method of controlling the consistency of the apex discharge of a hydraulic cyclone, said cyclone having a tangential feed inlet port located near the base thereof, an orifice extending through said base, and an orifice at the apex of said cyclone, which comprises introducing a suspension of solids through said feed port into

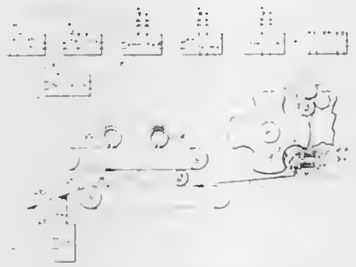
said cyclone at a pressure sufficient to produce centrifugal forces greatly in excess of gravity, whereby two concentric vortices rotating concentrically about a central air column and having opposed axial flow components are formed in said cyclone, the outer vortex being discharged from the cyclone through the orifice in the apex thereof and the inner vortex being discharged from the cyclone through an orifice in the base thereof; applying a substantially constant suction to the discharge from said base orifice thereby producing a partial vacuum in said central air column; varying the rate of flow of discharge through said apex orifice and thereby varying the density of said discharge over the range between a discharge of maximum and minimum fluidity whereby the partial vacuum in said central air column varies from a minimum to a maximum value, a graph of the variations in the partial vacua in said central air column versus the density of the corresponding discharges having at least three zones, a first zone where the vacuum in said central air column increases slowly and essentially linearly with the increase in the density of said discharge, a second zone where said vacuum increases relatively rapidly with further increase in the density of said discharge, and a third zone where the vacuum in said central air column approximates that of said applied vacuum; adjusting the rate of flow of said apex discharge until an apex discharge is obtained which has a density within said second zone, and thereafter increasing said rate of apex discharge when the partial vacuum in said central air column increases and decreasing said rate of discharge when said vacuum decreases and thereby maintaining the consistency of said apex discharge substantially constant.

**2,648,434**
**MANUALLY OPERATED MAGNETIC SWEEPER**
**George L. Russell, Detroit, Mich.**
**Application February 17, 1949, Serial No. 76,913**
**22 Claims. (Cl. 209—215)**



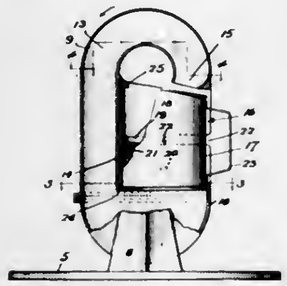
1. In an apparatus of the character described, an elongated, thin walled, hollow tubular member of nonmagnetic material, a plurality of solid permanent-type magnets arranged in end-to-end relation within said member and magnetized to provide longitudinally spaced poles, the adjacent poles of adjacent magnets being of like polarity, and nonmagnetic means positioned intermediate said adjacent magnets for spacing said magnets within said member, said magnets fitting closely within said member, whereby substantially all of the lines of magnetic force extending between the ends of each magnet are exterior to said member, said nonmagnetic means spacing said magnets apart a distance such that the space surrounding the exterior of said tubular member and extending longitudinally thereof from end-to-end of the plurality of magnets is substantially devoid of dead spots.

**2,648,435**
**METHOD AND APPARATUS FOR MAGNETIC TESTING**
**Robert D. Kodis, Roxbury, Mass.**
**Application February 15, 1952, Serial No. 271,842**
**8 Claims. (Cl. 209—215)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. The method of successively inspecting a plurality of ferromagnetic bodies for structural flaws comprising the steps of magnetizing each body to effect leakage of magnetic flux in the vicinity of any flaws therein, magnetically transferring the pattern formed by the flux leakage to a demagnetized ferromagnetic medium during relative movement between the body and the medium, converting the magentic pattern to a corresponding electrical signal, and differentiating between predetermined acceptable and non-acceptable amplitudes of signal.

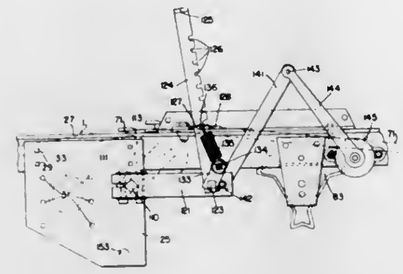
**2,648,436**
**FLOUR SIFTER**
**Ira Everette Wright, Elizabeth City, N. C., assignor of one-half to C. Lydon Harrell, Jr., and Martha G. Harrell, Norfolk, Va.**
**Application August 21, 1950, Serial No. 180,645**
**4 Claims. (Cl. 209—240)**



4. In a sifting machine, a support, a body of substantially oval shape rotatably supported intermediate its ends on said support, said body having an opening in one side thereof through which a flour sifter may be inserted, means in said body to secure said sifter in position, said body having a channel therein with one end communicating with the bottom of said sifter and the other end communicating with the top thereof, and a removable drawer in the bottom of said body.



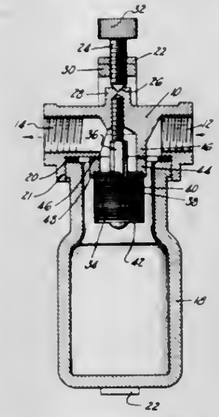
**2,648,437**
**AGITATING MECHANISM FOR POTATO DIGGERS**
**Austin E. Young, Syracuse, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois**
**Original application July 6, 1945, Serial No. 603,472. Divided and this application May 29, 1947, Serial No. 751,292**
**14 Claims. (Cl. 209—308)**



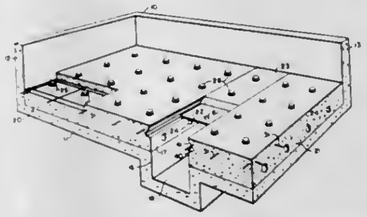
1. A potato digger comprising frame means, non-circular agitating sprocket means rotatably carried thereby, a conveyor chain carried by said frame means and adapted to pass over said agitating sprockets for rotating the latter which serves thereby to impart agitation to said chain and the material conveyed thereby, an auxiliary chain-supporting means, means connecting said chain-supporting means for generally vertical movement relative to said frame means while at least partially supporting said chain in different generally vertical positions relative to said agitating sprockets, and spring means connected to act generally vertically between said frame means and said chain-supporting means for urging the latter upwardly, said spring means being adapted to yield generally proportionately to the weight of the chain and material thereon, whereby the conveyor chain and the material thereon is supported in different positions relative to the associated agitating sprockets, so that when the chain is more heavily loaded the amount of agitation imparted thereto by said sprockets is increased.

**2,648,438**
**FILTER**
**Parker G. Cox, Grosse Point Farms, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application October 15, 1947, Serial No. 780,067**
**4 Claims. (Cl. 210—1.5)**

1. A device for filtering fluids comprising a filter head having a fluid inlet conduit and a fluid outlet conduit, in close proximity to one another, a bowl with which said inlet and outlet conduits communicate, a hollow filter element, a ring-shaped permanent magnet for removing particles of iron and steel from the fluid, and a means connected to said head for securing said element and said magnet in place in said bowl at the entrance to said outlet conduit with the hollow interior of each in direct communication with said outlet conduit and with the magnet functionally positioned between said element and said entrance, whereby the fluid being filtered is exposed to the outside of said magnet before passing through the filter element and exposed to the inside of said magnet after passing through said element.



**2,648,439**
**FILTER BOTTOM**
**Durando Miller, Jr., Pelham Manor, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware**
**Application November 1, 1950, Serial No. 193,457**
**4 Claims. (Cl. 210—124)**

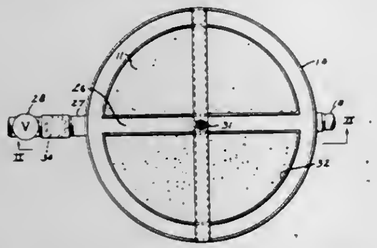


1. A filter bottom comprising a monolithically cast concrete slab, a header adjacent to said slab, parallel horizontal passages of circular cross-section integrally cast in said slab and opening into said header, a plurality of rings spaced apart from each other and imbedded in said slab coaxial with each of said passages, ferrules imbedded in said slab, each of said ferrules being fastened to one of said rings and having a vertical passage extending from one of said horizontal passages to the top of said slab, and a strainer mounted at the top of each of said ferrules in communication with said vertical passage.

**2,648,440**
**PROCESS FOR CLEANING FILTER SAND BEDS**
**William O. Mullins, Montgomery, Ala., assignor to Wittichen Chemical Company, a corporation of Alabama**
**Application October 28, 1949, Serial No. 124,071**
**2 Claims. (Cl. 210—130)**

1. The method of cleaning a filter sand bed comprising the steps of covering said bed with water, dissolving in said water from 1 to 5.7 pounds of sodium bisulfite per square foot of sand surface area thus forming an aqueous solution of sodium bisulfite, adding sulfuric acid to

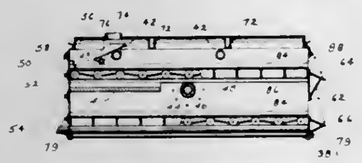
said solution in an amount equivalent to form 2.8 to 9.8 pounds at 66° Bé. per square foot of sand surface area thus bringing about a chemical reaction, and drawing the solution thus formed



down into the sand bed while said chemical reaction is taking place thus concomitantly releasing sodium bisulfate and sulfurous acid within the sand bed.

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**2,648,441**
**VIBRATING EQUIPMENT**
**Lewis E. Soldan, San Diego, Calif., assignor to Productive Equipment Corporation, Chicago, Ill., a corporation of Illinois**
**Application January 17, 1948, Serial No. 2,840**
**5 Claims. (Cl. 210—155)**



4. In a vibrating device that comprises a stationary base, a vibrating member yieldably mounted on said base, and means to impart vibratory movement to said vibrating member, the improvement which comprises a rigid porous screen, flanges on said screen that extend outwardly from the longitudinal edges of said screen and that lie in the plane of the top of said screen, said flanges being thinner than said screen whereby the bottom faces of said flanges are disposed above the level of the bottom of said screen, upper and lower supports for said screen that are positioned wholly within said vibrating member, said upper and lower supports being vertically spaced apart to define recesses of fixed dimensions into which said flanges can extend, said upper and lower supports being rigid and unyielding, said flanges directly engaging and being confined by said upper supports, and resilient locking elements of metal that are disposable between said lower supports and the bottom faces of said flanges and that directly engage said flanges and said lower supports and that force said flanges into engagement with said upper supports, said resilient locking elements being dimensioned to the normal overall heights thereof are greater than the maximum gaps between the said lower supports and the bottom faces of said flanges whenever said flanges extend into the recesses defined by said supports, said resilient locking elements being deformable to permit their introduction into and removal from said gaps, said supports and said resilient locking members constituting the sole mounting for said screen.

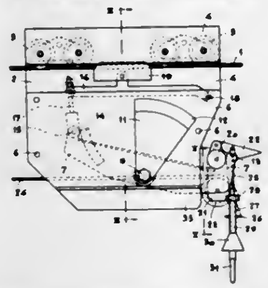
**2,648,442**
**DISPLAY STAND**
**Frank L. Lowmaster, Detroit, Mich., assignor to The Mathews Company, Detroit, Mich., a corporation of Michigan**
**Application March 4, 1949, Serial No. 79,695**
**2 Claims. (Cl. 211—142)**



2. Apparatus of the character described comprising a stand having front and rear shelf-holding members, and a shelf provided with rearward extensions having upwardly arched portions spaced inwardly substantially from the ends of said extensions and terminal portions projecting beyond said arched portions, said arched portions being selectively engageable with both of said holding members in either of two positions, in one of said positions said arched portions being disposed behind said rear shelf-holding member to hold the shelf substantially horizontal, in the other of said positions said arched portions receiving and seating downwardly on said front shelf-holding member and said terminal portions engaging upwardly against said rear shelf-holding members to hold the shelf in downwardly and forwardly inclined relation with respect to the horizontal.

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**2,648,443**
**TRAVELER FOR TRANSPORTATION OF TREE TRUNKS AND LIKE LOADS**
**Eugen Pilet, Wimmis, Switzerland**
**Application March 28, 1950, Serial No. 152,306**
**In Switzerland February 28, 1949**
**6 Claims. (Cl. 212—102)**



1. A traveler for transportation of tree trunks and like loads over a sloping high-line comprising, in combination, a frame, means in said frame for travel over the high-line, a cradle pivotally mounted inside said frame to assume two tilted positions facing the lower and the upper end of the sloping high-line respectively, an auxiliary carriage adapted to run over said cradle, a traction cable for hoisting the load and hauling the traveler, a hoisting block secured to the free end of said traction cable, means on said auxiliary carriage for guiding said traction cable, a brake structure to engage the high-line, lever means operatively connecting said brake structure with the cradle and adapted to provide operativeness and release of said brake structure



respectively according to the tilted position assumed by the cradle, means for locking the carriage to the front end of the cradle facing the lower end of the high-line, means whereby the hoisting block when brought by the traction cable into proximity with the carriage releases said locking means, the continuation of the drawing-in movement of the traction cable thus causing the carriage and the load suspended therefrom to run over the cradle to tilt said cradle into its rearwardly tilted position and thereby release the brake structure and allow movement of the traveler over the high-line in either desired direction.

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**2,648,444**
**TIMBER SETTING MACHINE**
**Charles W. Fitzgerald, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 26, 1948, Serial No. 62,160**
**18 Claims. (Cl. 214—1)**

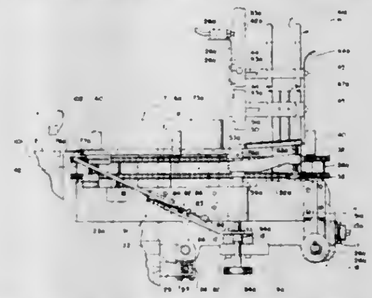


1. In a timber setting machine, a mobile base having a frame provided with a forward horizontal projection in a relatively low position at one end thereof, fluid operated jack devices carried by said projection at the sides thereof and engageable with the floor for steadying said frame, a horizontal turntable mounted in a relatively low position on said projection with the top of said turntable disposed below the top of said base, a support guided on said turntable for horizontal rectilinear movement relative thereto, an elevator boom pivotally mounted on said support to swing in vertical planes relative thereto about a horizontal axis located above said turntable and below the top of said base, said elevator boom carrying a timber receiving saddle at its outer extremity when in a horizontal position disposed below the top of said base, fluid operated means for rotating said turntable, fluid operated means for moving said support horizontally along its guideway, fluid operated means for swinging said elevator boom about its pivot, and remote control means on said base for controlling the supply of operating fluid to said jack devices and said several fluid operated means.

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**2,648,445**
**BOOK FEED MECHANISM FOR TRIMMING MACHINES**
**Carl A. Roessl and Robert P. Fendius, Chicago, Ill., assignors to C. L. Moyer Company, Chicago, Ill., a corporation of Illinois**
**Application August 30, 1950, Serial No. 182,278**
**4 Claims. (Cl. 214—8.5)**

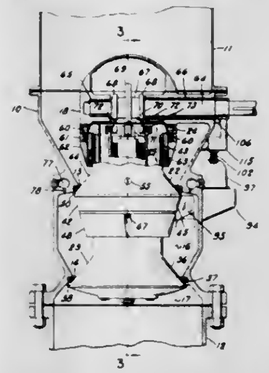
1. In a mechanism of the character described, a hopper to receive a stack of books, a pair of carriages mounted in spaced parallel relation below said hopper, a pair of sprockets mounted on each carriage for rotational movement about a vertical axis, endless chains mounted on the sprockets of their respective carriages and having their inner flights only disposed to engage and move books from the hopper, track means to support a book during movement of the latter from the bottom of the hopper between said carriages, a common drive means for said endless chains to cause the latter to move books from the bottom of said hopper along said track means, push lugs mounted at a spaced intervals on said endless chains and projecting upwardly therefrom to engage and move a book from the bottom of said hopper, means to vary the spacing



between said carriages to accommodate books of different sizes, said hopper being formed in two sections with one section mounted upon each carriage, a pair of arms pivotally connected to the end of said track means, and a plate mounted upon said arms to support a stack of books disposed within said hopper.

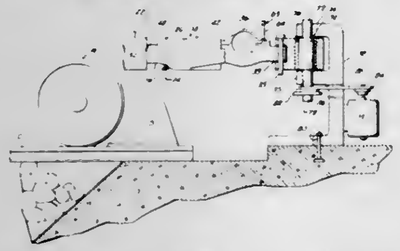
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**2,648,446**
**FEED MECHANISM**
**Eugene Martin, Wesleyville, Pa., assignor to Read Standard Corporation, a corporation of Delaware**
**Application September 9, 1948, Serial No. 48,462**
**4 Claims. (Cl. 214—17)**



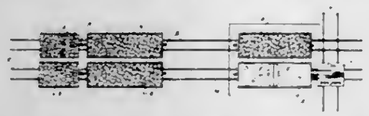
1. In a material feeding device, a body providing a pressure chamber between two valve seats, an inlet feed valve cooperating with one of said valve seats to control the inlet to said chamber, an outlet feed valve cooperating with the other of said valve seats to control the outlet from said chamber, means including a valve connecting said chamber with a source of pressure, means including a valve for venting said chamber, and means controlling the sequential operation of said valves including a rotatable shaft and a plurality of cams mounted on and arranged about said shaft to effect operation of one and then the other of said feed valves periodically and to open said pressure intake valve prior to and during operation of said outlet feed valve and to open said vent valve prior to and during operation of said inlet feed valve.

**2,648,447**
**VEHICLE UNLOADER**
**Robert A. Shields, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application February 24, 1949, Serial No. 78,177**
**15 Claims. (Cl. 214—64.2)**



1. In a vehicle unloader of the shaker type for clearing the lading from bottom discharge vehicles having a body and a resiliently mounted coupler connected thereto, the combination of a supporting structure, an oscillator mounted on the supporting structure and including a prime mover and a coupler adapted to be connected to the vehicle coupler, and blocking means movable into position between portions of the vehicle body and vehicle coupler to substantially block resilient movement of the coupler relative to the vehicle body during oscillation thereof by the oscillator.

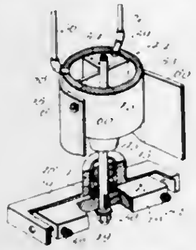
**2,648,448**
**VEHICLE UNLOADER CAR**
**Robert A. Shields, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application April 1, 1949, Serial No. 84,935**
**6 Claims. (Cl. 214—64.2)**



1. A vehicle unloader for clearing the lading from a bottom discharge vehicle having a body and a resiliently mounted coupler connected thereto comprising, an unloader car, a coupler carried by the unloader car and adapted to be coupled with the vehicle coupler, power means carried by said unloader car to shift the unloader car into and out of position to be coupled with the vehicle, power actuated means carried by the unloader car and engaging said vehicle to shift the latter away from said unloader car and relative to the coupled couplers, and means to oscillate said unloader car coupler and the vehicle coupled thereto.

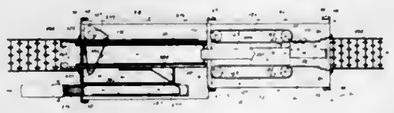
**2,648,449**
**HYDRAULICALLY OPERATED LOADING APPARATUS**
**Daniel S. Hoover, Mansfield, Ohio**
**Application July 22, 1949, Serial No. 106,211**
**1 Claim. (Cl. 214—138)**

In an apparatus of the character described, including a frame attachable to a tractor, a hollow rectangular platform carried by said frame, an hydraulic motor having a housing and a vertically dependent shaft, a rectangular block positioned within the platform in spaced relation thereto and affixed to said shaft, a bearing mounted atop said platform, a bearing block affixed to said shaft and revolubly mounted in and supported by said bearing, a mast affixed to



said housing, and compression springs interposed between the longer sides of the rectangular block and the longer inner sides of said platform adjacent each end thereof.

**2,648,450**
**CARTON UNLOADING AND UNIT UNSCRAMBLING MACHINE**
**Morris P. Neal, Moberly, Mo., assignor to A-B-C Packaging Machine Corporation, Moberly, Mo., a cornoration of Illinois**
**Application April 28, 1949, Serial No. 90,244**
**6 Claims. (Cl. 214—304)**



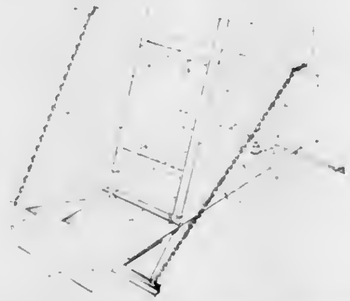
1. A machine for unloading cartons and unscrambling unloaded units comprising, in combination, a support, a carton receiving conveyer belt at one end of said support, a first motor for driving said conveyer belt, means operatively connecting said belt and first motor, a pair of opposed vertical endless belts disposed to receive between them and to frictionally engage cartons from said conveyer belt, a second motor for driving said endless belts, means operatively connecting said endless belts and second motor, downwardly sloping members for receiving unsealed side flaps of cartons located parallel with and between said endless belts, a support member between said endless belts for receiving cartons to maintain the end flaps in closed positions, pivoted side flap opening ears between the endless belts and in series with the downwardly sloping members for moving carton side flaps into vertically depending positions, side flap guide members in series with the flap opening ears including channels for receiving the depending edges of vertically depending side flaps to support the cartons, said guide members including ascending portions, a conveyer chain belt below said guide members, and means operatively connecting said conveyer chain belt and second motor, said conveyer chain belt being adapted to receive units from cartons as they are moved from said support member onto said guide members.

**2,648,451**
**TRUCK LOADING DEVICE**
**George W. Owen, Columbia, S. C.**
**Application February 7, 1951, Serial No. 209,807**
**4 Claims. (Cl. 214—354)**

1. A vehicle loading device comprising in combination with said vehicle a frame; an anchor

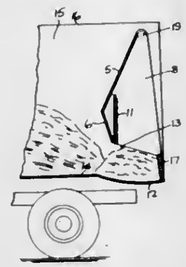


to which said frame is swivelled so that it may be swung in a horizontal plane whereby the longitudinal axes of said frame and said vehicle may be alined and in a vertical plane between a lower position and an upper position; a cable, of adjustable effective length leading from each of the rear corners of said frame to the correspond-



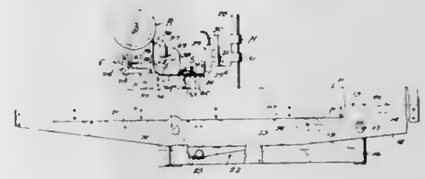
ing rear corner of said vehicle, said cables serving to raise and lower said frame as said vehicle is respectively moved forward or backward; and substantially parallel slide-rails one end of each of which is pivotally secured to respective sides of said frame, said slide-rails bearing on the bed of said vehicle through at least a portion of their length.

**2,648,452**
**GARBAGE VEHICLE**
**George Thomson Gibson, Edinburgh, and William H. W. Ramsay, Penicuik, Scotland, assignors to John Gibson & Son Limited, Edinburgh, Scotland**
**Application April 19, 1951, Serial No. 221,764**
**In Great Britain September 12, 1950**
**5 Claims. (Cl. 214—503)**



1. A garbage vehicle comprising a vehicle body having closed sides, a roof therefor, and a floor, a housing at the rear end of said vehicle body, said housing having an arcuate floor meeting the vehicle body floor at its inner end, a door structure pendulously suspended in said housing for swinging movement towards and away from the vehicle body, a chamber formed in the outer side of said door structure by a bottom wall spaced from said arcuate floor and inclined upwards towards the vehicle body and by an inner wall inclined upwards from the inner edge of said bottom wall and side walls between which said bottom wall and inner wall extend, and said bottom wall including hinged lid sections, and a push-plate depending from the outer edge of said bottom wall and normally closing the space between said bottom wall and the arcuate floor, said push-plate moving in close proximity to said arcuate floor when said door structure is swung inwards.

**2,648,453**
**STAMPING MACHINE**
**Robert G. Winn, Oak Park, Ill., assignor to American Decalcomania Company, Inc., Chicago, Ill., a corporation of Illinois**
**Application May 19, 1951, Serial No. 227,150**
**5 Claims. (Cl. 216—2)**



1. In an apparatus for applying stamps to an array of adjacent packages as they travel in step-by-step forward movements along a conveyor track, the combination comprising means operative to heat seal stamps backed with a thermo adhesive to a surface of said packages as they successively stop at a predetermined point of movement, and means for subsequently printing a cancellation mark on said stamps after said stamps have been secured to said packages and while said stamps are at an elevated temperature.

**2,648,454**
**KNOCKDOWN STREAMLINED CONTAINER**
**George A. Dean, Radburn, N. J.**
**Application September 17, 1948, Serial No. 49,669**
**11 Claims. (Cl. 220—5)**

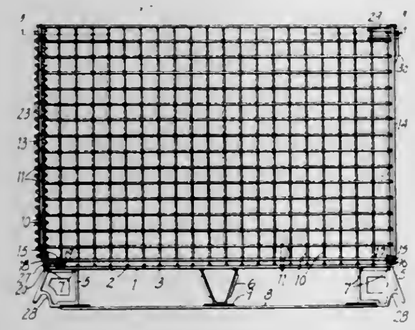


1. A knockdown container comprising at least three annular open ended shell sections disposed end to end, a ring between each pair of shell sections containing opposed annular recesses for receiving the adjoining ends of said pair of shell sections, the ends of the sections disposed in said grooves being inwardly swaged, the exterior of the ring conforming with and forming a continuation of the contour of the main portion of the shell sections beyond their swaged ends, a spar extending axially through the container from one end thereof to the other, and means on the spar engaging the end shell sections and drawing same axially toward one another thereby to clamp all of said shell sections together.

**2,648,455**
**COLLAPSIBLE WALLED PALLET**
**Dewey H. Bitney, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich.**
**Application October 29, 1951, Serial No. 253,611**
**7 Claims. (Cl. 220—6)**

1. In a materials handling pallet, the combination of a deck provided with supporting legs and

comprising upper and lower series of metal slats disposed with the slats of the series in crossing relation and fixedly connected at their crossing points, walls comprising fixedly connected vertical and horizontal slats swingably connected in pairs to permit the collapsing of the walls of the pairs upon each other, the swinging end of one wall of each connected pair being provided with means detachably engageable with the end of the adjacent wall of the other pair, vertical slats of one wall of a hingedly connected pair having inwardly offset arms at their lower ends connected by a horizontal bar disposed in adjacent parallel relation to one of the upper series of slats of the deck spaced inwardly from an edge thereof, a helically coiled wire hinge member spiralled around said bar and said adjacent deck slat, said arms when

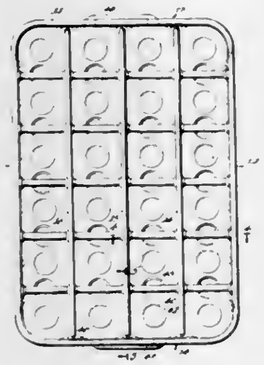


the wall is erected being in supported engagement with the deck at the outside of the deck slat to which the arms are hingedly connected by said hinge member with the wall in approximately vertical alignment with the adjacent edge of the bottom member, and a helically coiled wire hinge member spiralled around the bottom slat of the wall opposed to said wall having the inwardly offset arms and a parallel slat of the deck to which it is adjacently positioned, the said arms of said wall being of a length permitting the collapsing of the collapsed pairs of walls upon the deck with the pair having the arms hinged to the deck in overlapping substantially parallel relation to the other pair of walls collapsed upon the deck, said legs having downwardly facing recesses engageable with opposite erected walls when one pallet is superimposed upon another.

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**2,648,456**
**CRATE FOR BEVERAGE BOTTLES AND THE LIKE**
**Bruce L. Baxter, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware**
**Application August 23, 1950, Serial No. 180,933**
**2 Claims. (Cl. 220—21)**

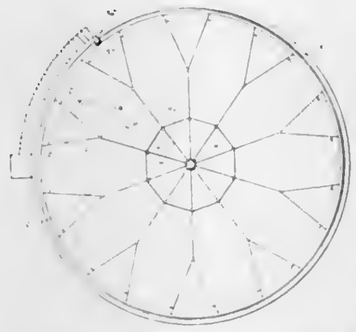
1. A rectangular bottle carrying crate adapted for carrying a plurality of bottles comprising a sheet metal bottom portion having a plurality of double walled longitudinal dividers having cylindrical ends and of a height equal to the depth of the crate and vertically disposed and integral with said sheet metal bottom, said bottom having upturned end wall flanges and side wall flanges, end walls and side walls riveted to said flanges, said longitudinal dividers having a plurality of vertically disposed and horizontally aligned apertures, tubular brace members transversely disposed within said apertures and between said side walls thereby dividing said crate into individual bottle carrying compartments, a plurality of tubular spacers having flared ends disposed about said brace members and both between said longitudinal dividers and



also between the longitudinal dividers and the adjacent side walls, and a plurality of flared resilient rubber ring-like cushions disposed in the flared ends of said flared tubular spacers to produce resiliently disposed spacers adapted to absorb shock thus preventing bottle breakage.

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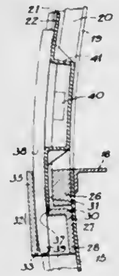
**2,648,457**
**FLOATING ROOF**
**Frederick D. Moyer, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois**
**Application September 30, 1949, Serial No. 118,810**
**3 Claims. (Cl. 220—26)**



1. A circular floating roof comprising a plurality of girders connected together and adapted to resist torsional stresses in the roof, a deck on the upper side of the girders, a circular rim attached to the outer ends of the girders and upstanding from the deck, a plurality of posts attached to each girder and extending above and below the deck, said posts including an inner post, an outer post attached to each girder and a central post with all the inner posts being equidistant from the central post, a trusswork interconnecting the inner posts and a truss system connecting radially aligned posts with the rim and being connected together at the center of the roof above the deck.



**2,648,458**
**SLIDING DOOR CONSTRUCTION FOR WASHING MACHINES**
**Hans P. Petersen, Wauwatosa, Wis., assignor to Mid-West Laundry Machinery Manufacturers, Inc., Milwaukee, Wis., a corporation of Wisconsin**
**Application December 12, 1949, Serial No. 132,481**
**2 Claims. (Cl. 220—41)**



1. In a door construction, a washing machine cylinder having a peripheral wall with a doorway and with trackways along opposite edges of said doorway, an arcuate sheet metal door slidably mounted on said peripheral wall for opening and closing said doorway and having opposite edges slidable along said trackways, said door having a free edge disposed adjacent to a third edge of said doorway when the door is in closed position, a channel extending along said third edge of the doorway for receiving the free edge of the door in the closed position of the door, a guide bar rigidly secured to said door and having an end portion projecting from said free edge, and a guide socket on said casing adjacent to said channel and receiving said bar end portion with a cam action during the closing travel of the door, said socket having opposite guide surfaces spaced in a direction transverse to said doorway a dimension slightly greater than the thickness of said guide bar and cooperating with said guide bar during the entry of said bar into said socket to define a path of closing movement for the free edge of said door intermediate of and spaced from the opposite sides of said channel for smoothly entering said free edge of the door into said channel.

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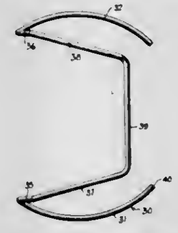
**2,648,459**
**CONTAINER WITH RAISED TEARING STRIP TONGUE**
**Carl F. Peck, Jersey City, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey**
**Application July 12, 1950, Serial No. 173,384**
**1 Claim. (Cl. 220—54)**



A container comprising a tubular body member provided with a bonded side seam, said body member having score lines setting off a tearing strip starting at said side seam, a tongue member constituting an integral extension of said tearing strip and projecting from said side seam for a length sufficient to pass through and wind around the slot of a conventional opening key, said tongue member for substantially its entire length overlapping and being spaced away from said body member, and an integral bead in said body member projecting between said members and located adjacent the free end of said tongue member, said bead being peripherally spaced away from said side seam a distance sufficient to support said tongue member in radially spaced relation to said body member so as to provide a non-bonded clearance space between the side seam and said bead and also between said bead and the outer terminal end of the tongue member, thereby freeing said tongue end for engagement with said key and preventing the free end of the tongue member from being bonded to said body member.

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**2,648,460**
**ATTACHMENT FOR PAINT CANS**
**John W. Tatter, Akron, Ohio**
**Application April 22, 1949, Serial No. 88,962**
**2 Claims. (Cl. 220—90)**



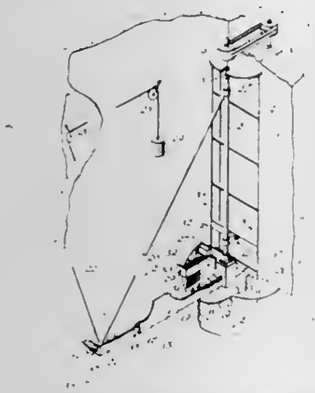
2. In a device of the class described consisting of a continuous length of galvanized half hard steel wire comprising diametrically opposed arcuate base portions contained in substantially the same plane and forming an open gap at one end of said base portions, the other ends of said base portions being connected by an integral continuous vertical and transversely extending bridge portion, the vertical portions of said bridge extending substantially perpendicular to the plane of said base portions and parallel to each other, the said transversely extending portion integrally connecting the upper extremities of said vertical portions, and comprising a substantially U-shaped portion in plan disposed in a plane extending substantially parallel to the plane of the base portions, the side arms of said U-shaped portion extending three quarters of the way back over said base portions, said side arms of said U-shaped bridge portion and said vertical portions being disposed to fall entirely within a cylinder formed by projecting the side of the base portions at a right angle to the plane of said base portions.

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**2,648,461**
**AUTOMATIC MEANS FOR THE MOVEMENT OF COMMINUTED MATERIALS**
**James R. Stephenson, Winnipeg, Manitoba, Canada**
**Application April 5, 1948, Serial No. 18,898**
**4 Claims. (Cl. 222—52)**

1. In the evacuation of comminuted materials from bins or hoppers, means for urging the comminuted mass to the point of discharge comprising a sweeping assembly including a horizontally disposed sweep-arm assembly movable in a horizontal plane substantially parallel to and in proximity to the bin or hopper floor, said sweeping as-

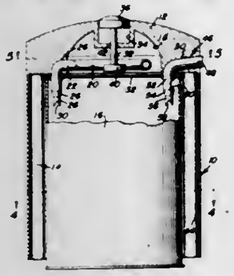
sembly being pivoted for said movement substantially above the point of discharge, a source of power for effecting such movement, said assembly embodying an elongated conveyor, an elongated fender in proximate parallel and trailing relation thereto, said fender including a horizontally elongated, substantially vertically disposed plate, means for urging said sweep arm assembly against the margin of said mass, a switch for initiating actuation of said conveyor, and a switch



actuator adjacent said point of discharge consisting of a rotatable rod, a material interceptable component secured to said rod and projecting downwardly therefrom with the distal end of said component slightly spaced from and in advance of said elongated conveyor, and a switch throwing element extending between said rod and said switch and actuable by said rod upon movement of said component by comminuted material.

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**2,648,462**
**POURING ATTACHMENT FOR CONTAINERS**
**Frank Massari, Tampa, Fla.**
**Application June 6, 1950, Serial No. 166,349**
**6 Claims. (Cl. 222—86)**



1. A pouring attachment for containers comprising a hollow cylindrical body for receiving a container therein, said body having an upper end wall with a recess in its under surface, an arcuate vent tube supported horizontally by said end wall and concealed within said recess, said tube including a depending end portion received in said body and terminating in a pointed extremity having a pair of diametrically opposed V-notches, said extremity adapted to penetrate the upper end of a container placed in the body, means slidably carried by the end wall for ejecting a container from the body, means for retaining a container within the body, and a pouring spout carried by said end wall, said pointed extremity being of a diameter less than said depending end portion and a downwardly extending, inwardly tapered shoulder at the juncture of said pointed extremity with said depending end portion.

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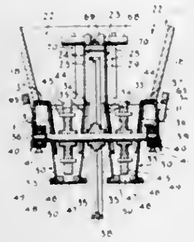
**2,648,463**
**PLASTIC CONTAINER WITH RUPTURABLE SEALED END**
**Robert Pauli Scherer, Detroit, Mich., assignor to R. P. Scherer Corporation, Detroit, Mich., a corporation of Michigan**
**Application May 8, 1948, Serial No. 25,913**
**2 Claims. (Cl. 222—107)**



1. As an article of manufacture, a completely enclosed container for objects or material comprising a tubular section of thermoplastic sheet material having the wall portions at opposite ends flattened and sealed together to effect closing of said container, the seal at one end extending transversely across said container in spaced relationship to said one end and having an angular configuration, the apex of said angular seal being turned toward said one end, said angular seal being progressively less resistant to opening toward the apex thereof, the opposed wall portions outside said angular seal being separated from each other by slots extending lengthwise of said container whereby said opposed wall portions may function as finger engaging tabs for transmitting seal opening force to the whole area of said angular seal beginning with the apex thereof.

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**2,648,464**
**FERTILIZER DISTRIBUTOR**
**William J. Weeks, Florence, S. C.**
**Application October 25, 1951, Serial No. 253,055**
**3 Claims. (Cl. 222—139)**

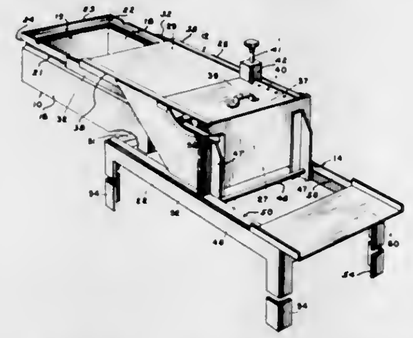


1. A fertilizer distributor comprising a generally horizontal frame, a hopper for receiving the fertilizer and arranged above the frame and secured thereto, a substantially vertical hollow partition arranged within the hopper substantially at its transverse center and including sides and a closed top which is arranged at an elevation a considerable distance beneath the top of the hopper, said partition dividing the hopper into transversely spaced compartments, depending hopper compartment extensions secured to the frame and transversely spaced and having their upper ends leading into the lower ends of the hopper compartments, the hollow partition and the depending compartment extensions forming a substantially vertical chamber closed at its top and sides throughout the length of said sides, a transverse shaft arranged beneath the frame and extending through the hopper compartment extensions and having its ends mounted upon the frame, a single ground wheel arranged at substantially the transverse center of the hopper and disposed within said chamber, the sides and top of the chamber preventing the fertilizer from passing into the chamber and contacting with the wheel, rotary fertilizer feeding elements mounted upon the shaft and arranged within the depending hopper compartment extensions, means forming discharge openings at the bottom of the depending hopper compartment extensions, and handles arranged at the rear of the frame and secured thereto.



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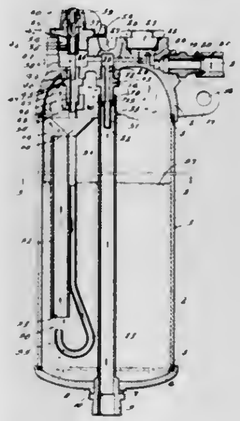
**2,648,465**
**TILTABLE HOLDER FOR SUPPLY PANS**
**Charles F. Barothy, Indianapolis, Ind., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application February 21, 1951, Serial No. 212,119**
**9 Claims. (Cl. 222—165)**



1. A device for tilting open top containers of small parts and controlling the discharge of the contents thereof comprising a base, a holder having guide means for slidably receiving said container therein for movement in one direction and retaining said container against movement transversely to said one direction, means on said holder for limiting the movement of said container in the holder in said one direction, means pivotally mounting said holder on said base for movement to and from a first position with said guide means in a substantially horizontal position to permit the insertion and removal of said container with the open top uppermost and a second position with the guide means substantially vertical for tilting said container to permit the discharge of the contents thereof, said base cooperating with said holder in said first and said second positions to support said holder in said first and said second positions, and closure means on said holder engageable with the open top of said container to provide a closure therefor, said closure means being adjustable to provide a discharge opening at one side of the holder and at the lower end of the open top of the container when the container is in said second position for the contents of said container to pass through.

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**2,648,466**
**DRY POWDER CONDITIONING AND DISPENSING MEANS**
**John W. Baur, Glen View, and Otto G. Plos, Cicero, Ill., assignors to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware**
**Application March 18, 1949, Serial No. 82,256**
**15 Claims. (Cl. 222—193)**



1. A powder conditioning and dispensing device comprising a container having a lower chamber portion for containing a dry material in powdered form therein and an upper chamber portion normally above said material contained in said lower chamber portion, a delivery duct in said container and having a receiving end portion located in said upper chamber portion and above said material and a delivery end portion extending to the exterior of said container, said delivery end portion having means for connection thereto of a suitable means for spraying said powdered material, an air supply chamber member at the upper part of said container and an air supply duct extending from said supply chamber to the receiving end portion of said delivery duct for conducting air under pressure into said delivery duct at said receiving end portion thereof, a second air supply duct extending from said air supply chamber to a low point in said lower chamber portion and into said material therein and having an air nozzle at its lower end portion for delivering air in the form of a concentrated jet in said material at said point, a mixing chamber member having a lower open end portion located in said material at said point and spaced from said air nozzle for receiving powdered material and air into the chamber of said mixing chamber member, said mixing chamber member having an outlet portion located in said upper chamber portion and above said material in said lower chamber portion, said delivery duct having an orifice provided in said receiving end portion thereof for passage of said mixture of air and powdered material from said upper chamber portion to be mixed with the air passing from said air supply duct extending from said air chamber to said receiving end portion of said delivery duct to move along said delivery duct to be sprayed.

**2,648,467**
**SAFETY CLOSURE FOR CONTAINERS**
**Eugene Holt, North Hollywood, Calif., assignor to Safety Precisions Limited, Montreal, Quebec, Canada, a company of Canada**
**Application July 1, 1950, Serial No. 171,721**
**2 Claims. (Cl. 222—543)**



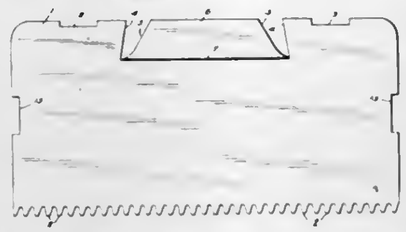
1. A closure for bottles and other containers comprising an annular outer member at the upper part of the container, said outer member having a shoulder of reduced diameter, and serving to define an outlet opening for the container, a U-shaped inner member slidably arranged therein in inverted position with the free ends of its arms within the container, the distance between the tips of the arms being greater than the diameter of the reduced shoulder of the outer member whereby the inner member is prevented from becoming completely removed from the container by contact of the tips of the arms with the shoulder, and a sprung press-cap inseparably connected to the inner member and adapted to grip onto the exterior of the outer member when said press-cap is placed over the outer member and snapped into closed position.

**2,648,468**
**CLOTHES HANGER**
**Swie Hoo Tan, The Hague, Netherlands**
**Application December 1, 1950, Serial No. 198,529**
**In the Netherlands September 23, 1950**
**7 Claims. (Cl. 223—68)**



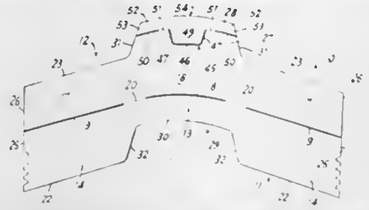
1. In a garment hanger, a shoulder portion adapted to be received inside a garment and to support the garment by its shoulders, bust-shaping portions extending rearwardly from a central portion of said shoulder portion, then divergently downwardly and forwardly and then convergently downwardly and rearwardly, and a waist-gripping portion supported at the lower portion of said bust-shaping portions, the bust-shaping portions being adapted to lie outside of and behind the garment and to press portions of the garment forwardly to shape the bust portion thereof and the waist-gripping portion being adapted to received the waist portion of the garment and gather it in.

**2,648,469**
**SHIRT BOARD**
**Knowles Youngblood, Atlanta, Ga.**
**Application April 10, 1950, Serial No. 155,085**
**1 Claim. (Cl. 223—71)**



A shirt board of one piece construction comprising an elongated substantially rectangular body having longitudinally spaced substantially V-shaped notches opening through one longitudinal side edge thereof to define a collar engaging tongue, said body having a band receiving indentation adjacent the opposite ends of said tongue and opening through said longitudinal side edge of said body between said tongue and the adjacent ends of the body, teeth carried by the body and extending outwardly from the side edge thereof remote from the edge having the notches, and said body having band receiving indentations opening through opposite end edges thereof.

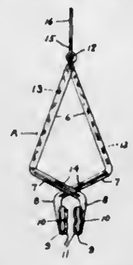
**2,648,470**
**COLLAR SUPPORT**
**Caesar A. Calder, Verona, N. J.**
**Application December 23, 1948, Serial No. 66,900**
**18 Claims. (Cl. 223—83)**



9. A collar support blank made of a single piece of sheet material and comprising an inner flap and an outer flap coextensive therewith, and joined together at two spaced portions on opposite sides of the middle of said flaps, and said flaps being separated between said joined portions and between the joined portions and the outer ends of the flaps.

**2,648,471**
**GARMENT HANGER**
**William F. Helwig, Milwaukee, Wis.**
**Application February 13, 1951, Serial No. 210,739**
**1 Claim. (Cl. 223—96)**

A trouser hanger comprising opposed channel-shaped handles having their lower portions reduced in thickness and crossed, a link pivotally connecting the handles at their upper ends, an inverted V-shaped resilient wire having its looped portion overlying the lower inner portion of said link with its arms bearing against the inner surface of the channel shaped handles and ends terminating adjacent the reduced lower portions thereof, a hook pivotally connected to the link, laterally extending jaws carried by the reduced lower ends of the handles in opposed relation to one another, reinforcing ribs formed on the jaws,



and ribs formed on the outer surfaces of the crossed portions of the handles and extending throughout their contacting areas.



**2,648,472**
**THREAD SPOOL AND NEEDLE HOLDER**
**John P. Gallagher and June L. Kelly, Chicago, Ill.; said June L. Kelly, now by marriage, June L. Gallagher**
**Application September 27, 1950, Serial No. 187,105**
**6 Claims. (Cl. 223—109)**

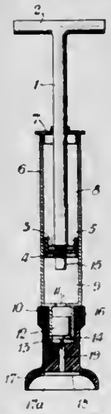


1. In a thread spool, a barrel having a flange at each end, said barrel having an axially extending groove in its outer surface, one end of the spool having an opening therethrough with a portion of the opening in axial alignment with and communicating with said groove, said opening and groove being adapted for insertion of a needle thereinto from one end of the spool, the needle when in said groove being exposed to thread wound around the barrel, said groove extending a substantial portion of the length of the spool whereby only a small portion of the eye end of the needle extends outwardly of the confines of the spool, one of said flanges having a notch in its outer periphery for friction gripping a thread in the needle for aiding in retaining the needle in place in said opening and groove.

**2,648,473**
WITHDRAWN

**2,648,474**
**AIR EXTRACTOR**
**Leslie George Crook, Camberley, England**
**Application October 9, 1951, Serial No. 250,411**
**In Great Britain January 4, 1950**
**1 Claim. (Cl. 226—20.4)**

A combined puncturing device and air extractor for puncturing containers and extracting air therefrom comprising a casing forming a pump cylinder, a piston reciprocably mounted in said cylinder, a piston rod secured to said piston and slidably supported in a closure member at one end of said cylinder, an aperture in the other end of the casing communicating with the interior cylinder, an open mouthed extension member secured to the said other end of casing surrounding the said aperture and adaptor to support the casing upon a container, a punch slidably mounted in said extension member for sliding movement axially of the casing and having a pointed portion adapted to be extended outwardly from the mouth of said extension member and to be retracted therefrom, movement of the piston rod in one direction towards the said other



end of the cylinder being effective to engage the punch to move the pointed portion to the extended position to puncture the container, and a member adapted to be detachably secured to said extension member and engage the surface of the punctured container to provide a sealed connection between the interior of the punctured container and the pump cylinder, whereby movement of the piston rod in the other direction is effective to draw air from the container into the cylinder.

**2,648,475**
**METHOD FOR CLEANING AND FILLING CONTAINERS**
**Philip Martin, New York, N. Y.**
**No Drawing. Application December 2, 1946, Serial No. 713,453**
**2 Claims. (Cl. 226—21)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. The method of cleaning contaminated fluid and cantaminating matter out of a container having air tight rigid walls and one closed air tight end, said method comprising hermetically sealing the open end of said container in a first filter flask, pumping substantially all of the air out of said flask and substantially all of the fluid and air out of said container and then bleeding air back into said flask to permit removal of the container therefrom, then immediately hermetically sealing the open end of said container in a second filter flask containing a cleansing agent, pumping substantially all of the air out of said flask and said container with the open end of said container out of the body of the said agent, immersing the open end of said container in said cleansing agent while maintaining the hermetic seal and then bleeding air back into said flask to cause rise of the cleansing agent into the container, removing said cleansing agent from said container with the open end of said container out of the body of said agent, then immediately hermetically sealing the open end of said container in an empty filter flask, heating said container, pumping substantially all of the air out of said flask and container

to thereby dry the cleansing agent remaining in the container and then bleeding air back into said flask to permit removal of the container therefrom, then immediately sealing the open end of said container in a filter flask containing clean fluid, heating said container and simultaneously pumping substantially all of the air out of said flask and container with the open end of said container out of the body of said clean fluid, immersing the open end of said container in said clean fluid, and bleeding air into the flask to cause rise of clean fluid into the container to fill completely said container with clean fluid.

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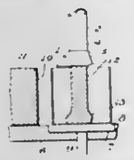
**2,648,476**

## METHOD OF FILLING CONTAINERS

**Ridgway Kennedy, Jr., Drexel Hill, Pa., assignor to Abbotts Dairies, Inc., Philadelphia, Pa., a corporation of Maryland**

**Application June 4, 1947, Serial No. 752,537**

**1 Claim. (Cl. 226—24)**



The method of filling an empty container with a semi-liquid substance by means of a nozzle having a wiping edge that lies in a plane closely parallel with the upper edge of the container when the latter is full and with the axis of said nozzle closer to the forward wall of the container than to the rearward wall, which consists in flowing a column of the substance into and more closely adjacent to the forward wall of the container while said nozzle is stationary and until the column of such substance contacts the bottom wall of the container, lifting the container towards the nozzle after said contact to thereby flatten out more against said forward wall that portion of the substance that has contacted the container bottom, lowering the container as it fills with the substance more rapidly against said forward wall to drive air in the container towards the said rearward wall during constant discharge from said nozzle, and upon the container reaching the lowermost position in its cycle of movement moving it forwardly with respect to and from beneath said nozzle, so that the trailing edge of said nozzle finally flows the substance into and fills the upper rearward portion of the container, as it forces air from, and wipes the contents cleanly with respect to, the upper edges of the container.

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**2,648,477**

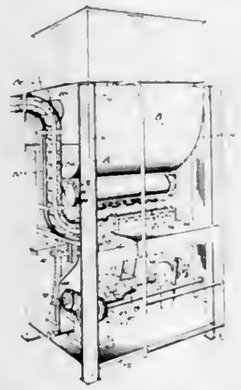
## FILLING APPARATUS

**Bertie S. Harrington, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois**

**Application March 17, 1948, Serial No. 15,370**

**6 Claims. (Cl. 226—94)**

6. In a filling apparatus, the combination comprising a horizontally-extending platform, a hopper supported above said platform having a discharge opening in the bottom thereof, a casing providing a horizontally-extending cylindrical valve chamber between said hopper and said platform, said valve chamber communicating with said discharge opening and having a lower outlet opening oriented toward said platform and positioned at a spaced distance therefrom, a cylindrical rotor valve mounted in said chamber and having aligned axially spaced recesses therein providing a plurality of metering cups, means for rotating said valve to bring said cups alternatively into communication with said discharge opening and said lower outlet opening, and means operated in timed relation with said rotor-operating means for moving an array of cans across said platform beneath said outlet opening and for positioning one can beneath each of said



metering cups when said cups are brought into alignment with said outlet opening, said last mentioned means including guide means for directing a line of cans traveling on their sides to a position in front of said outlet opening with their open ends away from said outlet opening, a rockably mounted cradle beneath said position for uprighting a plurality of said cans and depositing them open end upwardly on said platform directly in front of said outlet opening with one can aligned with each metering cup, and a pusher member for advancing said cans across said platform.

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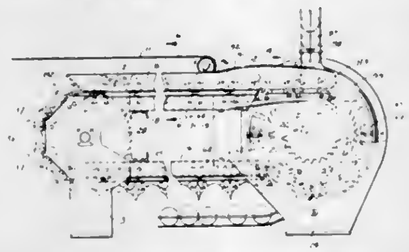
**2,648,478**

## APPARATUS FOR PACKING FOOD PRODUCTS

**Eben H. Carruthers, Warrenton, Oreg.**

**Application October 4, 1949, Serial No. 119,467**

**14 Claims. (Cl. 226—101)**



1. In a machine of the character described, in combination, a plurality of molding units, each of said molding units including a base portion of partial cylindrical form and a pair of arms pivoted with respect to said base portion on each side thereof, each of said arms having at least a portion of its surface forming a partial cylinder, and means for moving said arms to a closed position with respect to said base portion to form a cylinder, one of said arms being movable toward the closed position before the other.



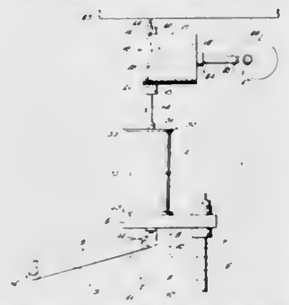
**2,648,479**

## APPARATUS FOR PACKAGING POPCORN

**Joseph T. Martin, Thomasville, Ga., assignor, by mesne assignments, to Rose Kist Foods, Inc., a corporation of Georgia**

**Original application May 8, 1951, Serial No. 225,201. Divided and this application May 19, 1953, Serial No. 356,434**

**3 Claims. (Cl. 226—107)**



1. Popcorn packaging apparatus, comprising: a support for an open top container substantially filled with a mass of popcorn kernels; a filling tube above said support for introducing popping oil into such container; means for moving said support and said filling tube relatively to each other to provide such a space between the lower end of said filling tube and support as will effect immersion of said lower end of said filling tube to a substantial depth into the popcorn kernels in such container, said filling tube having discharge port means positioned to normally be disposed substantially below the level of the popcorn kernels in such container to facilitate the introduction of popping oil into the voids between the popcorn kernels; a substantially flat retainer plate mounted on said filling tube and located at a point spaced a substantial distance above the lower end of said filling tube, the lower face of said plate being engageable with the container edge at the open top thereof and having vent openings to allow air to freely escape from the container through said vent openings while preventing the popcorn kernels from being forced out of the container at a time when popping oil is being introduced through said filling tube into the voids between the kernels; and means for forcing a sufficient volume of popping oil into such container through said filling tube to fill the voids between the popcorn kernels.

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**2,648,480**

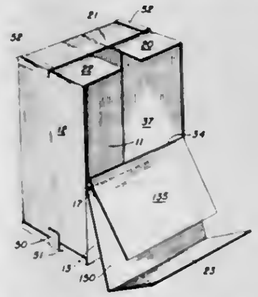
## EASY PACKING DEEP CONTAINER

**Samuel P. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia**

**Application July 12, 1948, Serial No. 38,319**

**1 Claim. (Cl. 229—7)**

A relatively tall upright shipping container formed of paper board comprising front, rear and side walls joined at one corner to provide a rectangular packing space of a depth greater than the normal reach of a packer, said front, rear and side walls having rectangular flaps folded into overlapped relation and secured to form a rigid bottom end closure on which the container is adapted to rest during packing, shipping and storing, said rear and side walls having rectangular flaps folded into overlapped relation and secured to form a rigid top end, said front wall being cut and scored to provide a hinged panel adapted to be swung outwardly to provide an access opening in the packing space within the container, said opening extending upwardly from substantially midway the height of the container, the packing space beneath the opening having a depth not to exceed the normal reach of a packer, said hinged panel extending all the way to the upper end of the container and having an extension forming a rectangular flap adapted to fold down onto the top end side flaps and into the plane of the flap on the rear wall and a liner for said container including a front



wall and side walls, said front wall being cut and scored so as to provide a hinged liner panel dimensioned and positioned so that it may be swung outwardly through the opening in the front wall of the container to provide an access opening to the packing space within the liner, said liner panel being adapted to be swung so as to close the opening in the liner and said hinged panel and flap carried thereby being swung so as to close the opening in the outer container and place the flap carried thereby in contact with the exposed upper sides of the top end side flaps and into the plane of the rear side flap.

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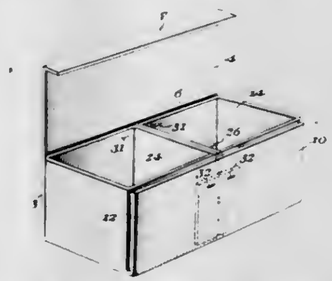
**2,648,481**

## HEAVY DUTY FIBER CONTAINER

**Samuel P. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia**

**Application March 1, 1950, Serial No. 147,009**

**1 Claim. (Cl. 229—27)**



A foldable fiber container formed from a substantially rectangular blank, said blank being scored and slit so as to provide when assembled for use a bottom wall, side and rear walls integral therewith, a cover member integral with said rear wall, cell end walls integral with said bottom wall, front and rear cell side walls formed integral with each end cell wall, inner end cell walls formed integral with each rear cell wall and carrying flaps at the ends thereof, said inner

cell walls being dimensioned so as to extend from the bottom to the cover when the container is closed for supporting said cover and also dimensioned so as to extend transversely of the container between the inner ends of the front side cell walls and with the flaps folded flat against the outer faces of said front cell side walls, said container front wall being folded into vertical position and against said flaps, said flaps spacing said front container wall from said front cell walls to form a pocket stitching means passing through said container front wall, the flaps and the front cell side walls for rigidly joining the same, said rear wall being folded to vertical position and stitching means passing through said rear wall and the rear side cell walls adjacent the upper ends thereof for rigidly joining said rear wall to said cell walls, said cover having a flap adapted to extend downwardly into said pocket between the front cell side walls and the container front wall when the cover is closed.

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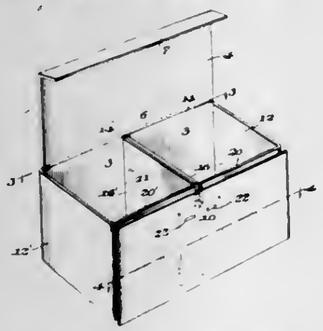
**2,648,482**

**HEAVY DUTY FIBER CONTAINER**

**Samuel P. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia**

**Application March 1, 1950, Serial No. 147,010**

**1 Claim. (Cl. 229—27)**



A foldable fiber container formed from a substantially rectangular blank, said blank being scored and slit so as to provide when assembled for use a bottom wall, side and rear walls integral therewith, a cover member integral with said rear wall, end walls integral with said bottom wall, front and rear cell walls formed integral with each end wall, and an inner end cell wall formed integral with each cell rear wall, said rear wall having a slot midway the ends thereof extending from the bottom to the top of the rear wall, said rear walls of the cells when assembled being disposed on the outer face of the rear wall of the container with the inner end walls of the cells extending through the slot in the rear wall, said inner cell walls being dimensioned so as to extend from the bottom of the container to the cover when the container is closed for supporting the cover and also dimensioned so as to extend transversely of the container and between the inner ends of the front side cell walls, said inner cell walls having flaps folded flat against the outer face of the outer side walls of the cells, the front wall of the container being adapted to be folded against the flaps of the cell walls, and means for joining the front walls, the flaps and the front cell walls, said flaps spacing said front wall of the container from the front side walls of the cells to form a pocket and said cover having a flap adapted to extend downwardly into said pocket when the container is closed.

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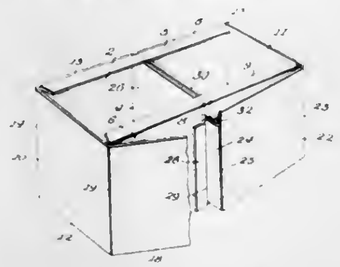
**2,648,483**

**HEAVY DUTY FIBER CONTAINER**

**Samuel P. Belsinger, Atlanta, Ga., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia**

**Application November 9, 1951, Serial No. 255,649**

**1 Claim. (Cl. 229—27)**



A foldable heavy duty container, comprising a bottom wall, front, rear and end walls formed integral therewith, said front and rear walls having slots extending upwardly from the bottom wall and disposed midway between the ends of said walls, front and rear half side walls sections formed integral with each end wall, a partition member formed integral with each rear wall half section, said partition members extending through the slot in the rear wall and having flaps extending through the slot in the front wall, said flaps being folded flat against the outer face of the front wall and held firmly against said front wall by the front half side wall sections, each front wall section having a flap adapted to extend through the slot in the front wall and between said partition members, said front wall and said rear wall having flaps extending the full length thereof and adapted to fold down onto the partition members and serving as cover supports, a cover supporting member disposed within the container body in contact with the inner faces of each end member and a cover member hingedly carried thereby and adapted to fold downwardly onto said cover supporting flaps, the free ends of said cover members meeting at said partitions and having flaps adapted to extend downwardly between the partition members.

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**2,648,484**

**HEAVY DUTY FIBER CONTAINER**

**Jack Russell Belsinger, Cynwyd, Pa., assignor to Belsinger, Inc., Atlanta, Ga., a corporation of Georgia**

**Application February 19, 1951, Serial No. 211,627**

**3 Claims. (Cl. 229—36)**

1. A heavy duty fiber container comprising, a bottom and side and end walls formed integral therewith, said side walls having extensions at the ends thereof forming half-end walls abutting each other, each half-end wall having a slot at and along the side wall to which it is attached, each end wall having a holding tab adapted to extend through one of the slots and having locking engagement with the inner face of said half-end wall, lugs formed in said half-end walls adjacent the upper ends thereof and a rigid reenforcing member extending across the end of the container and supported by said lugs, each half-end wall having an extension extending laterally across said reenforcing member and then downwardly into locking engagement with said holding tabs, said side walls having cover members formed integrally therewith for closing said container.





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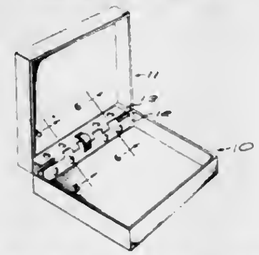
**2,648,485**

**CARDBOARD BOX SPRING HINGE**

**Lewis Douglas Young, Providence, R. I., assignor to Douglas Young, Inc., a corporation of Rhode Island**

**Application January 6, 1951, Serial No. 204,704**

**2 Claims. (Cl. 229—44)**



1. In a cardboard box a body section and a cover section, each section having perpendicularly disposed flat rear walls of relatively soft material with their edges abutting, flat metal anvil members along the outer surfaces of the rear walls, a paper cover over each anvil member, a flexible metal plate extending along the inner surface of the rear wall of each section, each plate having a plurality of holes with projections arcuate in cross section extending from the edge of each hole through the rear wall over which the plate extends with the free ends of the projections engaging said anvil member on the other side of the rear walls and deflected and clinched outwardly of its holes over the rear wall of the section to firmly secure the plate to the section, and means to hingedly attach said plates together.

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**2,648,486**

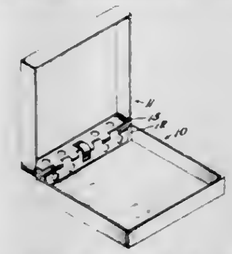
**CARDBOARD BOX**

**Lewis Douglas Young, Providence, R. I., assignor to Douglas Young, Inc., a corporation of Rhode Island**

**Continuation of application Serial No. 69,301, January 5, 1949. This application March 23, 1953, Serial No. 343,922**

**4 Claims. (Cl. 229—44)**

1. In a cardboard box a body section and a cover section, each section having vertically disposed rear walls with their edges abutting, a metal plate extending along the inner surface of the rear wall only of each section, each plate having a plurality of holes along its length with a plurality of integral projections along the edge of each hole embedded in the rear wall over which the plate extends with the free ends of the projections deflected outwardly in a plurality of different directions and clinched over the outer surface of the rear wall of the section and firmly securing the plate to the section, said plates having their adjacent edges hingedly attached together, each of said plates having intermediate its length an opening providing a lip, an arcuate spring with inturned ends engaging said lips and urging said plates in an opening or closing direction depending on the relative position of the plates.



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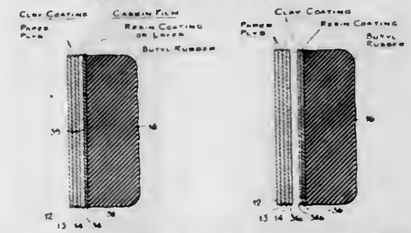
**2,648,487**

**BAG FOR PACKAGING TACKY POLYMERIC MATERIALS**

**Frank Raymond Linda, White Plains, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York**

**Application July 25, 1947, Serial No. 763,688**

**10 Claims. (Cl. 229—55)**




1. A multi-wall paper bag for packaging tacky, high molecular, polymeric materials, in such manner that said materials may be easily removed from said bag, said bag comprising a multiplicity of paper tubes, disposed one within another, said tubes being secured together at one end thereof to form a closure, the inner paper tube of said bag being faced with a substantially impervious superimposed continuous, non-tacky layer of a tough and flexible polymeric substance loosely bonded to said paper with an interposed bonding medium of low tensile strength such that said polymeric layer may be easily stripped from said paper tube.

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**2,648,488**

**APPARATUS FOR PROVIDING VARIABLE QUANTITIES OF COMPRESSED FLUIDS**

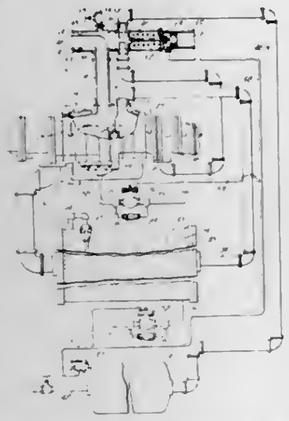
**Win W. Paget, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**

**Application September 4, 1946, Serial No. 694,766**

**15 Claims. (Cl. 230—26)**

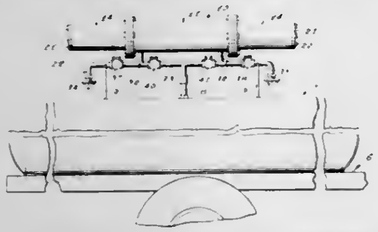
1. A rotary compressor of the lobed rotor type having cooling means associated therewith and

means controlling said cooling means to reduce the quantity of cooling fluid delivered to said compressor when the same is operating unloaded, and means for unloading said compressor operative at least largely to eliminate the back pressure thereon while maintaining the ratio of compression therein substantially unchanged upon unloading.



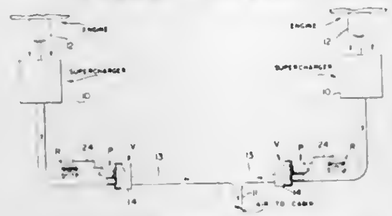
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**2,648,489**
**BOOSTER FOR AIR BRAKE SYSTEMS**
**Charles D. Dyer, Chicopee, Mass.**
**Application August 3, 1951, Serial No. 240,248**
**3 Claims. (Cl. 230—34)**



1. In combination, a vehicle committed to recurring acceleration and decelerations in forward movement thereof, a storage tank of a compressed air-operated system mounted upon said vehicle, a main pipe terminating at its ends in air intakes open to the outside air, an air inlet pipe leading from an intermediate part of said main air pipe and connected with the storage tank, a cylinder mounted on and positioned lengthwise in the direction of movement of the vehicle, said cylinder having closed ends, a piston rod extending through said cylinder and slidably engaging said ends, a sealed piston fixed on said piston rod and working in said cylinder between the ends of the cylinder, said piston being of sufficient weight to resist following movement in the cylinder when the cylinder is moved relative to the piston as the vehicle is accelerated or decelerated, said cylinder having ports adjacent to its opposite ends, said ports being separately connected to said main pipe at longitudinal spaced points between the ends of said main pipe, normally closed suction-operated valves located in said main pipe between its open ends and said ports, and normally closed pressure discharge valves located in said main pipe between said ports and said tank air inlet pipe.

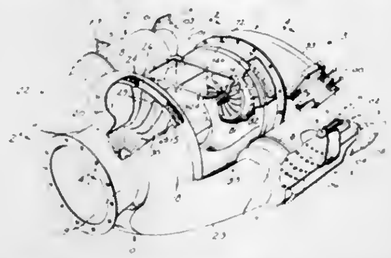
**2,648,490**
**SUPERCHARGER DUCT SYSTEM**
**Bernard L. Messinger, Pacific Palisades, Howard H. Gray, San Fernando, and Robert R. Richolt, Tujunga, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.**
**Application October 4, 1947, Serial No. 777,936**
**4 Claims. (Cl. 230—115)**



1. In combination with a supercharger having a discharge duct, a relief valve mounted in the wall of said duct and urged to the closed position by the air pressure in the duct and operable when open to discharge into the atmosphere to promote airflow through the supercharger, a check valve preventing a reverse flow through the duct including a seat in the duct, a door engageable with the seat to close off the duct, a bracket on the door, and a hinge connecting the bracket with a wall of said duct so that the door is moved toward its closed position against the seat by reverse flow in the duct, a fluid pressure actuated device operatively connected to the relief valve for moving the relief valve to the open position, a pressure line having communication with the duct at the downstream side of said seat and leading to said device to supply actuating pressure thereto, a pilot valve having a casing fixed to said duct, said pilot valve controlling said pressure line and directly engaging said bracket at a point spaced from said hinge mounting to be moved to an open position to cause opening of the relief valve when the outward airflow in the duct falls below a given value to allow movement of the door toward its closed position, and a spring seated in said casing and urging the pilot valve against the bracket and moving the pilot valve to the closed position when the door again is moved toward the open position by increased outward airflow in the duct.

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**2,648,491**
**GAS TURBINE AUXILIARY POWER PLANT**
**Homer J. Wood, Sherman Oaks, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California**
**Application August 6, 1948, Serial No. 42,984**
**1 Claim. (Cl. 230—116)**

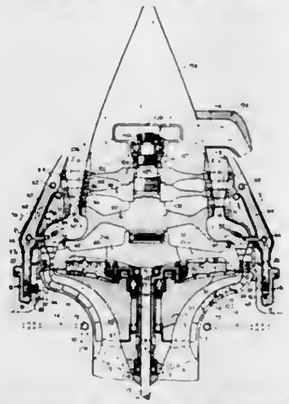


A power plant, comprising: an air compressor unit having a double-volute compressed air discharge housing; a hot gas turbine unit having an inlet housing and a driving connection with said compressor unit; a single pair of discharge ducts for compressed air, said discharge ducts being laterally spaced from the opposite sides of the power plant and respectively connecting said volutes with said turbine inlet housing; a combustion chamber in each of said discharge ducts between said units; a bleed connection for bleeding compressed air from each of said discharge ducts prior to reaching said combustion chambers; and an air inlet connection for said compressor unit, said air inlet connection intersecting a plane normal to the power plant axis which plane passes through both said combustion chambers, said air inlet connection being substantially equally angularly spaced from both said combustion chambers, and said air inlet connection being substantially spaced upwardly from a plane extending through the upper surfaces of both of said combustion chambers, whereby air is supplied to said compressor unit without substantial heating by said combustion chambers to permit air to be bled from said bleed connections for pneumatic power purposes.



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**2,648,492**
**GAS TURBINE INCORPORATING COMPRESSOR**
**Edward A. Stalker, Bay City, Mich.**
**Application May 14, 1945, Serial No. 593,631**
**11 Claims. (Cl. 230—119)**

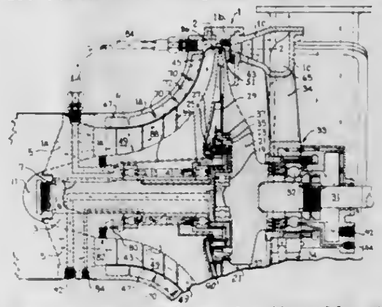


1. In combination in a fluid machine adapted for the interchange of energy between a fluid and its rotating parts, a case, an impeller mounted in said case for rotation about an axis to compress a fluid flow, and an axial flow compressor rotor mounted downstream from said impeller for rotation about said axis, said rotor having a plurality of passages whose inlets and exits are located at substantially similar distances from said axis, each said passage being adapted to receive said fluid from said impeller, each said exit facing rearward to discharge fluid rearward in the general axial direction, each said exit having a greater area and radial depth than said corresponding inlet to increase the pressure of said fluid received from said impeller.

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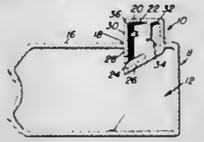
**2,648,493**
**COMPRESSOR**
**Edward A. Stalker, Bay City, Mich.**
**Application October 23, 1945, Serial No. 624,013**
**15 Claims. (Cl. 230—119)**

1. In combination in a compressor, a supersonic rotor mounted for rotation about an axis, said rotor having a plurality of diverging passages spaced from said axis and directed with a component of length along said axis, each said passage having an exit portion of increasing cross sectional area in the downstream direction, a casing ahead of said motor adapted to lead a flow of fluid up to the inlets of said passages, an axial-flow rotor having blades mounted therein, means mounting said axial flow rotor with its blades in said casing ahead of said supersonic rotor for rotation to compress the said flow of fluid therein, a plurality of adjustable stator blades peripherally mounted in said casing between said rotors, means to adjust said stator blades to direct the flow into said supersonic rotor counter thereto, each said passage having an exit of greater radial depth and cross sectional area than the inlet thereof adapting each said passage to convert supersonic velocity to static pressure, and means to rotate said rotors to compress fluid, the portion of said casing between rotors having an annular cross section of expanding area in the downstream direction.



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**2,648,494**
**COIN BANK WITH GUARDED SLOT MEANS**
**Anthony P. Veschio, Monessen, Pa., assignor of five per cent to Andres Hrebenor and five per cent to Frank Tomaskovic, both of Monessen, Pa.**
**Application November 20, 1950, Serial No. 196,646**
**3 Claims. (Cl. 232—5)**



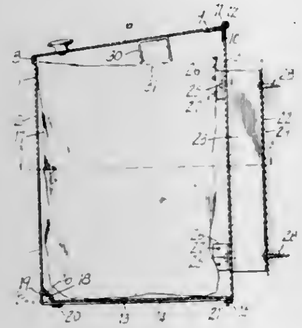
1. A coin bank comprising a depository having a wall, and a one-piece cylindrical neck removably mounted in opening means in said wall by way of a fracturable web, said neck having an upper portion projecting above the plane of the wall and having a lower portion projecting into the depository, said neck being provided with a coin intake slot, and having at its inner end a slotted inclined chute, and being provided on its interior with fixed out-of-line complemental baffle elements.

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**2,648,495**
**GARBAGE RECEPTACLE**
**Julius R. Borst, East Moline, Ill., assignor to C & J Industries, Moline, Ill.**
**Application June 16, 1950, Serial No. 168,611**
**8 Claims. (Cl. 24—43.5)**

8. A garbage receptacle comprising a wall unit open at the bottom and having fixedly connected

front, rear and side walls, said side walls having slideways adjacent the lower edges thereof, a bottom slidable on said slideways, the front wall having an inwardly and downwardly projecting portion constituting a scraper coacting with the bottom as it is withdrawn, said bottom having a portion projecting laterally thereof adjacent the



front edge thereof to constitute a finger piece, said front wall inwardly and downwardly projecting portion projecting for a substantial distance inwardly of the general plane of the front wall to provide a recess in the front wall within the general plane thereof for receiving said finger piece when the bottom is moved to closed position.

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**2,648,496**

## CENTRIFUGAL APPARATUS FOR SEPARATING GASES FROM LIQUIDS

**Arthur Cresswell, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**Application December 3, 1946, Serial No. 713,687**

**1 Claim. (Cl. 233—22)**



A centrifugal device for continuously degassing liquids comprising a hollow shaft mounted for axial rotation, a hollow rotor mounted on the said shaft, said rotor having upstanding walls closed by a cover, a radial plate of less diameter than the inside diameter of the hollow rotor, said plate being secured to and closely spaced from the rotor cover to form a degassed liquid conduit therebetween, a stationary hollow inlet pipe for liquid to be degassed, concentric with, mounted within and spaced from the hollow shaft thus forming a gas take-off therebetween, the outlet of the inlet pipe being in proximity to the bottom of the plate, means to rotate the device about the stationary inlet pipe, means to feed liquid to be degassed through the inlet pipe and against the bottom of the plate, vacuum means for withdrawing degassed liquid from the hollow rotor in an axial direction and means to withdraw gas from the degassed liquid from between the hollow shaft and the inlet pipe.

**2,648,497**

## ACCUMULATOR DRIVE CONTROL MECHANISM

**Robert E. Boyden, Los Angeles, Calif., assignor to Clary Multiplier Corporation, San Gabriel, Calif., a corporation of California**

**Original application March 13, 1945, Serial No. 582,553. Divided and this application November 27, 1950, Serial No. 197,773**

**2 Claims. (Cl. 235—60)**



1. In a cyclically operable calculating machine, the combination comprising a reversible coaxial accumulator, a plurality of unitary racks for actuating said accumulator, said racks being mounted for rectilinear movement forwardly and rearwardly relative to said machine, means for yieldably driving said racks forwardly from initial positions and for returning said racks to said initial positions, said means comprising a drive shaft cyclically operable through one complete revolution, an inclined keyboard including a plurality of depressible keys located above said racks, each key having a stem fixed thereto and movable into the path of an associated rack whereby to differentially limit forward movement of said racks; means for rendering said racks effective to selectively directly drive said accumulator in either of opposite directions during said forward movement and for rendering said racks ineffective to drive said accumulator during said return movement, a tens transfer mechanism for said accumulator including a unidirectionally rotatable member, and means independent of said rack drive means but driven by said drive shaft for causing a complete rotation of said rotatable member during said return movement of said racks.

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**2,648,498**

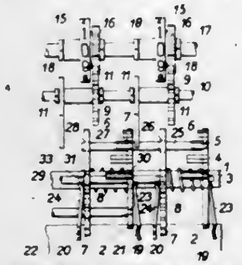
## CALCULATING MACHINE

**Kurt Jordan and Hans Neumann-Lexius, Brunswick, Germany, assignors to Brunsviga Maschinenwerke Aktiengesellschaft, Brunswick, Germany**

**Application September 14, 1949, Serial No. 115,621**

**In Germany October 1, 1948**

**4 Claims. (Cl. 235—79)**



1. In a calculating machine, a shaft, a series of numeral wheels on the shaft, a second shaft parallel to the first-named shaft, disks on the second shaft including a pair of actuator disks for each numeral wheel, said actuator disks be-



ing rotatable with the shaft and movable axially thereof, indexing means for adjusting the disks of each pair toward each other for engagement with the corresponding numeral wheel, means biasing the disks away from each other, a pin fixed on each disk, said pin extending parallel to the shaft through a clearance hole in an adjacent disk and being guided at its free end by a hole in another disk more remote from the disk to which the pin is fixed, and the pins of successive disks being arranged in echelon.

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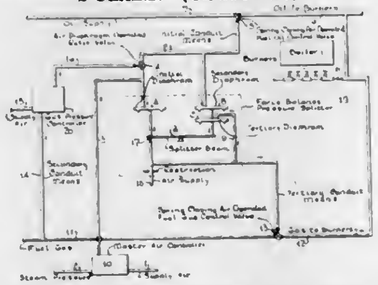
**2,648,499**

## VARIABLE OIL-GAS FUEL CONTROL SYSTEM

**Paul M. Dana, Billings, Mont., assignor to Standard Oil Development Company, a corporation of Delaware**

**Application January 25, 1951, Serial No. 207,709**

**2 Claims. (Cl. 236—26)**



1. Apparatus for controlling the relative ratio of fuel-oil and fuel-gas to a burner in order to maintain a predetermined B. t. u. input which comprises a master air controller actuated as a function of boiler pressure and which controls a varying air pressure as a function thereof, a fuel oil control valve positioned between an oil supply line and the burner and controlled by the varying of air pressure exerted thereon, an initial conduit means connecting said master air controller and said fuel oil control valve whereby the air pressure varied by said master air controller is exerted on said fuel oil control valve, a diaphragm operated ratio valve positioned in said initial conduit means adapted to reduce the pressure in said initial conduit means adjacent said fuel oil control valve as air pressure is exerted on said diaphragm, a pressure balance gas control valve positioned between a fuel gas supply line and the burner and controlled by the varying of air pressure exerted thereon, a secondary conduit means connecting said fuel gas supply line and a waste gas controller actuated as the pressure of the gas in said secondary conduit means varies, and which controls a varying air pressure as a function thereof in a manner to operate said diaphragm operated ratio valve, an initial diaphragm positioned by means of a conduit off said initial conduit means between said master air controller and said diaphragm operated ratio valve, a secondary diaphragm positioned by means of a conduit off said initial conduit means between said diaphragm operated ratio valve and said fuel oil control valve, said initial and said secondary diaphragm valves being actuated by the air pressure in said initial conduit means, whereby as said diaphragm operated ratio valve reduces pressure, the pressure on said secondary diaphragm is reduced, a balance beam actuated on opposite sides by said initial and secondary diaphragms, whereby said balance beam is in balance when the air pressure in said diaphragms is equal, an air nozzle positioned with respect to said balance beam in a manner that as the pressure on said initial diaphragm exceeds the pressure on said secondary diaphragm said balance beam will function to gradually close said air nozzle, a tertiary conduit means connecting said air nozzle and said pressure balance gas control valve, said tertiary conduit means also connecting said nozzle and a tertiary diaphragm, said tertiary diaphragm being positioned in a manner to exert a supplementary force with respect to said secondary diaphragm valve on said balance beam, whereby as the pressure in said tertiary conduit means increases due to said balance beam restricting said air nozzle, said pressure balance control valve will open and said tertiary diaphragm will supplement the force exerted by said secondary diaphragm in a manner to counteract the force exerted by said initial diaphragm and bring said balance beam into equilibrium.



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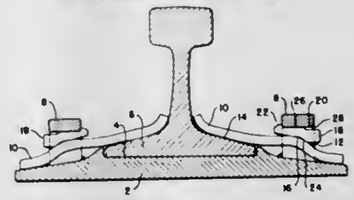
**2,648,500**

## RAIL FASTENING DEVICE

**George S. Vickroy, Johnstown, Pa., assignor to United States Steel Corporation, a corporation of New Jersey**

**Application September 1, 1950, Serial No. 182,753**

**2 Claims. (Cl. 238—349)**



1. A rail fastening device comprising a tie plate having a seat portion for the base of the rail, a member secured to said tie plate at a point intermediate the seat portion and the edge of the plate, said member having an opening therethrough with the top surface thereof being spaced from the top of said tie plate, an elongated spring clip extending through said opening with one end of said clip bearing against the top of the rail flange and the other end bearing against the top of the tie plate, the upper surface of said clip being longitudinally convex, a portion of said clip in said opening being arranged at a steeper angle than the top surface of the flange of the rail, a bend in said clip within said opening, and a locking key in said opening between said clip and said top surface, said locking key having a portion on its upper surface engaging said member to prevent outward movement of the key away from said rail, and a shoulder on its lower surface engaging the bend in said spring clip to prevent outward movement thereof.

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**2,648,501**

## SPOOL HOLDER

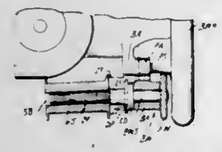
**Dolores Yvonne Novotny, St. Louis, Mo.**

**Application October 15, 1949, Serial No. 121,514**

**1 Claim. (Cl. 242—20)**

A spool bobbin attachment for use with a sewing machine head including a bobbin winder, the attachment including a plate coupling member normally in operative driving connection with the bobbin winder, the plate being formed to provide with the winder, an axially separable and removable attachment connection, a sleeve pro-

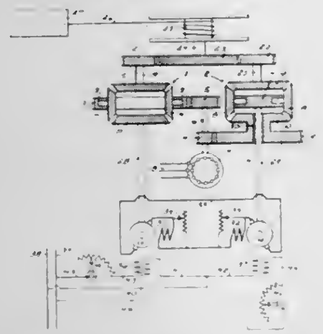
jecting axially of the plate coupling, and a coil spring formed of closely wound convolutions of a diameter approximating the internal diameter of the sleeve, one end of the said spring extended into, and being metallically secured within the said sleeve, the opposite end of the spring being free and having no journalling support, the said spring being of a torsionally and angularly flexible character, and of a diameter when unstressed, slightly greater than the bore of a standard spool, the spring diameter being such



as to permit insertion of the spring, when torsionally tightened, in the bore of a standard wood thread spool, the sleeve provided with an end face outwardly of the spring, serving as a stop for the spool to limit movement of the spool axially upon the spring, the said sleeve and spring having sufficient longitudinal dimension so that the spool, rotatable with the spring, will not be limited in its angular displacement by a bobbin winder shaft and the spring being wholly open and unobstructed between the sleeve and the free spring end.

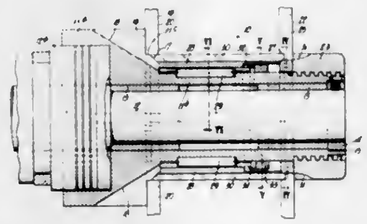
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**2,648,502**
**POWER WINDING OF STRIP MATERIAL**
**Lev A. Trofimov, Willoughby, Ohio**
**Application May 31, 1949, Serial No. 96,372**
**21 Claims. (Cl. 242—45)**



1. A power transmission for driving a rotary load, comprising: an electric generator; an electric motor; a first and a second differential gearing, each comprising a spider element rotatably supporting a pinion and two differential gear elements meshed with the pinion; the spider element of the first gearing and a differential gear of the second gearing being interconnected to rotate at a predetermined speed ratio and adapted to be connected to a power supplying motor; a differential gear of the first gearing connected to the generator to drive it; the electric motor electrically connected to the generator to be electrically driven by it; the spider element of the second gearing connected to the electric motor to be driven by it; means adapting the other differential gears of the gearings to be connected to the load to drive it at predetermined respective speed ratios with the load at all speeds of the load.

**2,648,503**
**TAKE-UP BLOCK FOR WIRE DRAWING**
**Daniel Revak, Donora, and Frederick W. Riedel, Belle Vernon, Pa., assignors to United States Steel Corporation, a corporation of New Jersey**
**Application April 17, 1951, Serial No. 221,488**
**2 Claims. (Cl. 242—72)**



1. A take-up block comprising a mandrel adapted to be journaled on the end of a drive shaft with one end free to permit removal of a coil wound thereon, a hub at the other end of the mandrel, a side plate rigid with said hub, a second side plate removably disposed on the mandrel adjacent the free end thereof, circumferential grooves in the inner faces of said plates, each groove being defined by a cylindrical outer surface and a frusto-conical inner surface intersecting the cylindrical surface, a plurality of separate segments spaced circumferentially about the mandrel extending between the side plates and having ends of frusto-conical shape on the interior extending into said grooves and engaging said inner surfaces, each of said segments having a tongue extending axially on the interior thereof toward one end of the segments, a retainer ring fitted on the mandrel adjacent said one end of the segments, said ring surrounding said tongues and loosely confining the segments, and means for drawing said second side plate toward the first-mentioned side plate to cause outward radial movement of said segments.

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**2,648,504**
**SLACK TAKE-UP APPARATUS**
**Edward W. Ertner, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application August 23, 1951, Serial No. 243,279**
**6 Claims. (Cl. 242—75)**



3. A slack takeup device, which comprises a pair of guiding rolls mounted on fixed axes, a floating roll for engaging the portion of the web between said first-mentioned rolls, a shaft mounting the floating roll rotatably, means urging the shaft away from said first-mentioned rolls, pinions mounted on the ends of the shaft, fixed racks for guiding the pinions, channel-like guideways positioned transversely with respect to the shaft, antifriction rollers on the shaft in the guideways for holding the pinions in mesh with the racks, and antifriction means for preventing longitudinal movement of the shaft.



**2,648,505**
**LINE CONTROLLING DEVICE FOR USE WITH FISHING REELS**
**Paul Mauborgne, Niort, Deux Sevres, France**
**Application April 12, 1948, Serial No. 20,577**
**In France January 10, 1944**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires January 10, 1964**
**6 Claims. (Cl. 242—84.5)**



1. In a stripping reel having a spool, a reel support for fixedly attaching the reel to a rod with the spool axis extending substantially in the direction of the rod, means normally holding the spool against rotation, a line-winder rotatable about the spool, and means for rotating the line-winder: a finger-pressure actuated line-controlling device comprising a lever pivoted on the reel support transversely thereof between the reel and the rod and having a portion thereof formed to be swingable in a plane parallel to the plane containing the axis of the spool and the general direction of the line into a position where the distal end thereof is interposed in the path of the line where it strips from the spool, an actuating member connected to the lever for wholly manual displacement of said swingable portion of the lever into said position, and a spring acting on said lever in opposition to manual displacement for automatic displacement of said swingable portion from said position.

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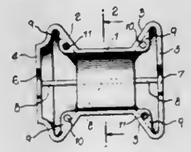
**2,648,506**
**FISHING REEL**
**James B. Kirby, West Richfield, Ohio**
**Application April 29, 1949, Serial No. 90,420**
**4 Claims. (Cl. 242—84.5)**



1. A fishing reel comprising a body, a spindle projecting from the body, a sleeve rotatably mounted on said spindle, a spool rotatably mounted on the sleeve, a crank, means to mount said crank on said sleeve including a crank hub threaded on the sleeve, a clutch element non-rotatably mounted on the sleeve adapted to be moved into and out of driving engagement with the spool by rotation of the hub on the sleeve, a projection carried by the crank, a projection carried by said clutch element, said projections describing a common circular path upon relative crank and sleeve rotation, whereby such rotation is limited, said crank being angularly adjustable on the hub and indicia carried by the hub and crank to show the relative angular position of said projections.

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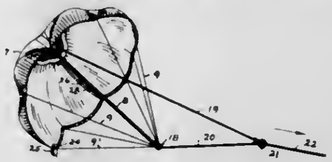
**2,648,507**
**THREAD REEL**
**Herbert Kitzrow, Kettwig-Ruhr, Germany, assignor, by mesne assignments, to J. & P. Coats Limited, Glasgow, Scotland, a corporation of Great Britain**
**Application November 1, 1949, Serial No. 124,753**
**In Germany July 29, 1949**
**2 Claims. (Cl. 242—118)**



1. A thread reel consisting of two identical halves moulded of a resilient thermoplastic material and having mating faces joined in a diametral plane of the reel, each of said halves being formed as an open hollow shell having a semicylindrical body portion with outwardly sloping flanges at the ends thereof with semi-annular end walls extending radially inward from the peripheries of said flanges and interengaging means on the mating faces of each of said halves for holding the two halves in assembled relation, said interengaging means comprising sockets and pins with the pins on the respective halves being arranged to project into the sockets on the other half and to make a force fit therewith whereby the two halves are locked together by the resiliency of the thermoplastic material.

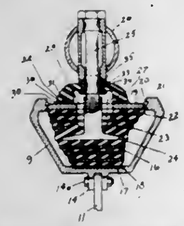
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**2,648,508**
**KITE**
**Franklin P. Bell, Walnut Creek, Calif.**
**Application April 25, 1950, Serial No. 158,006**
**12 Claims. (Cl. 244—153)**



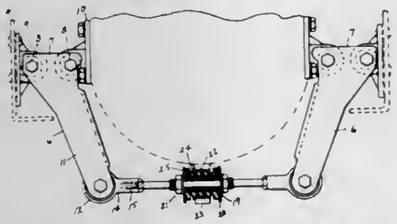
1. In a kite, a circular sustaining element of flexible sheet material which is free to assume the general form of a parachute canopy under flight conditions, a rigid strut member having an end thereof directly attached to the center of said element, flexible shroud lines connecting the other end of the strut member with mutually spaced peripheral points of the element, a flight line for the kite, and bridle lines connecting solely the opposite ends of the member with the flight line.

**2,648,509**
**VIBRATION CONTROLLER FOR A RESILIENT MOUNTING**
**Richard C. Henshaw, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania**
**Application April 17, 1947, Serial No. 741,963**
**2 Claims. (Cl. 248—5)**



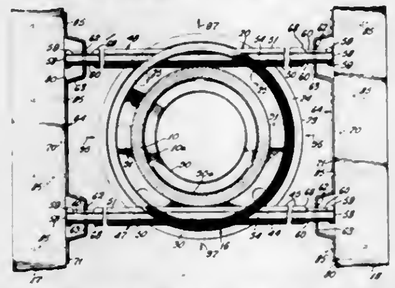
1. In a resilient mounting having a member subject to vibration edgewise of a surface thereon, a vibration controller comprising a friction plate slidable edgewise on the surface, and a cup shaped member of rubber or equivalent resilient material having its rim connected to the plate and the center of its bottom wall provided with a pressure transmitting connection radially inward of the side walls of the cup urging the plate against the surface, the bottom wall of the cup yielding in shear direction normal to the plate to maintain friction contact of the plate and surface and the side walls of the cup yielding in shear in a direction edgewise of the plate to permit limited movement of the plate with the surface without sliding relative to the surface until the stress in the sidewalls of the cup exceeds the friction force on the plate.

**2,648,510**
**RESILIENT MOUNTING**
**Richard C. Henshaw, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania**
**Application July 2, 1948, Serial No. 36,709**
**3 Claims. (Cl. 248—8)**



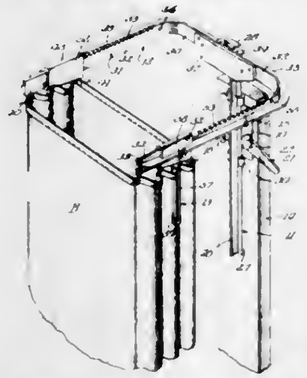
1. In an automobile having an engine or propulsion equipment between supporting side frames, bell cranks on each side of the engine having horizontal arms extending crosswise of the engine axis, hinge joints at each end of the arms connecting the arms respectively to the engine and the adjacent side frame, at least one of the joints comprising inner and outer joint members with resilient material such as rubber therebetween sustaining the vertical and horizontal thrusts transverse to the axis of the joint in compression, the stiffness of the resilient material being such as to provide a support having a natural vibrational frequency in a vertical direction above the vibrational frequencies transmitted through the side frames, vertical arms on the bell cranks, a tie rod connected between the free ends of the vertical arms and including adjustment means for moving the free ends of the vertical arms toward and away from each other to raise and lower the engine, and a resilient connection between the engine and tie rod resisting movement of the engine relative to the tie rod.

**2,648,511**
**VENT PIPE SUPPORT**
**Saul Epstein, Los Angeles, Calif.**
**Application February 1, 1949, Serial No. 74,027**
**16 Claims. (Cl. 248—57)**



16. A vent-pipe support comprising, in combination, a pair of brackets adapted to be attached, in opposed relation, to contiguous structural members of a building, each of the brackets having longitudinally spaced laterally projecting elements, a pair of cross-bars resting at their ends on said elements, and a pipe supporting bucket having side walls supported on and between said cross-bars, said bucket being adjustable longitudinally of said cross-bars.

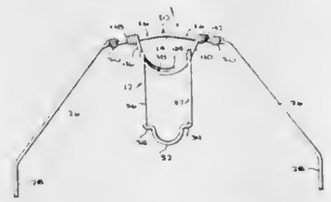
**2,648,512**
**BAG HOLDER**
**Axel R. Scholin, Chicago, Ill.**
**Application March 20, 1950, Serial No. 150,730**
**6 Claims. (Cl. 248—100)**



1. As a new article of manufacture, a holder adapted to support a bag with its mouth open for filling purposes and comprising a vertically extending substantially flat bracket formed of stamped plate metal, provided with means for attachment to a post or like supporting structure and embodying on its upper and lower end portions vertically aligned pairs of opposed outwardly and inwardly extending integral tongues, a standard extending through, and slidably mounted in, said pairs of tongues in order that it is capable of being shifted upwards and downwards, a cam-lever pivotally connected to one of the side portions of the bracket at a point substantially midway between the two pairs of tongues and so as to swing back and forth in a plane in parallel relation with the bracket, and arranged and adapted so that when swung in one direction the cam part thereof engages one edge of the standard and operates to clamp the standard sidewise against certain of the tongues and lock said standard against downward movement and when swung in the opposite direction said cam part releases the standard so that it may be shifted upwards or downwards, and a horizontal frame connected to, and extending forwards from, the upper end of the standard and provided with spaced apart prongs for attachment to different portions of the mouth of the bag.

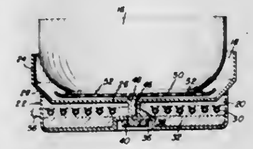


**2,648,513**
**NURSING BOTTLE HOLDER**
**Ellsworth E. Groff, Hayden, Ariz.**
**Application January 4, 1952, Serial No. 264,901**
**2 Claims. (Cl. 248—107)**



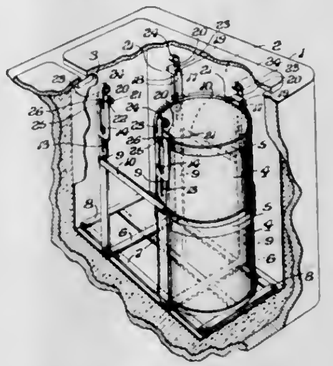
1. A nursing bottle holder comprising: a stand including a pair of upstanding side support members and a crossbar extending between and secured to the upper ends of said members, said crossbar having a bend medially between its ends to define at opposite sides of said bend a pair of angularly related crossbar portions; and an inclined bottle holding frame suspended from the crossbar between said side support members, said bottle holding frame being formed from a single length of wire material bent to shape, said length being formed medially between its ends into an arcuately depressed seat for the neck of a nursing bottle and having side bottle supports extending in parallelism from said seat to extend longitudinally on opposite sides of the bottle, the end portion of said length of material of one of said side bottle supports being depressed arcuately and extending toward the other of said side bottle supports to form a seat for the base of the bottle with the free end of such portion projected toward and wound snugly about the adjacent crossbar portion of said crossbar and the end portion of said length of material of the other of said side bottle supports being depressed arcuately and extending toward said one of said side bottle supports to form another seat for the base of the bottle with the free end of the last named end portion projected toward and wound snugly about the other crossbar portion of said crossbar, said seat and said side bottle supports constituting a body of semicircular cross sectional configuration for extending under and supporting a nursing bottle, the angular relation of the crossbar portions constituting means effective to prevent rotation of the sleeves upon said crossbar portions, thus to hold the bottle holding frame against movement relative to the stand.

**2,648,514**
**ROTARY BOWL SUPPORT**
**James D. Rosier and Mary L. S. Rosier, Montgomery, Ala.**
**Application May 4, 1950, Serial No. 160,010**
**2 Claims. (Cl. 248—131)**



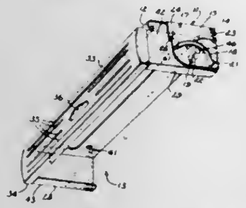
1. A cooker comprising a substantially pan-like base including a bottom comprising a raised, apertured central portion, a removable receptacle including a substantially frusto-conical lower portion seated on the base, an externally threaded socket member depending from the bottom of the receptacle and extending through the raised central portion of the base bottom, a retaining nut threaded on said socket member, and a turntable removably mounted in the receptacle in spaced relation to the bottom thereof and including a headed depending stem journaled in the socket member.

**2,648,515**
**CARTON HOLDER**
**Maximilian E. Weiss, Philadelphia, Pa.**
**Application September 15, 1948, Serial No. 49,416**
**4 Claims. (Cl. 248—154)**



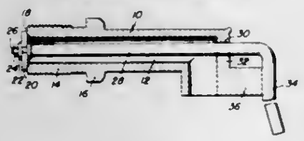
1. The combination with a cylindrical ice cream carton having a flexible, paper-board cylindrical wall tending to buckle under rotation-preventing force applied downwardly to the upper edge thereof and a reenforcing rim complementary to and surrounding the upper edge portion of said wall and rendering arcs thereof more resistant to flattening than is the remainder of said wall, of an anti-rotational holder having a grip containing a slot in which complementary portions of said rim and edge are insertable only when slightly flattened, said slot having an outer wall substantially tangential to an arc of the unflattened rim and an inner wall which is a secant to said arc, said inner wall having vertical edges engaging said rim adjacent to the ends of said arc and said outer wall pressing against said rim at an intermediate part of said arc, and means for applying to said grip a downward force insufficient to buckle said cylindrical wall.

**2,648,516**
**DISPENSER BRACKET**
Mario J. Manetti and David James, Chicago, Ill., assignors to Edward G. Gantner, Morton Grove, Ill.
Application February 24, 1950, Serial No. 146,064
4 Claims. (Cl. 248—311)



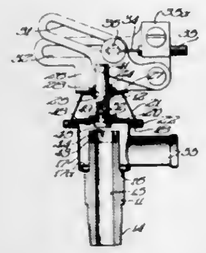
1. A sheet metal formed dispensing device bracket comprised of a mounting component having a back panel and a pair of end panels of which said end panels are provided with opposed primary axes guide embossments, opposed secondary axes guide embossments, and curved primary axes guide slots, a secondary component carried by said mounting component having sheet metal end panels adapted to be confined between said primary component end panels and having provided respectively therewith primary axes projections to be confined in said primary axes embossments, primary axes rivet elements to be confined for movement in said primary axes curved slots, and secondary axes projecting elements consisting of up-struck protrusions in said secondary component side panels confined for pivotal as well as curvilinear movement in said mounting component primary axes embossments.

**2,648,517**
**VALVE**
Morton Berland and Melvin Spiegler, St. Paul, Minn.
Application December 9, 1949, Serial No. 132,072
2 Claims. (Cl. 251—6)



1. In combination with an elongated casing having a valve seat at its inner end and having an opening at its outer end, a valve rod extending axially through said casing and having its ends terminating exteriorly of said casing, a valve head secured to the inner end of said rod and seating in said valve seat, the outer end of said rod being angulated and forming a handle for said valve rod, said rod being axially slidable in said casing, an L-shaped projection on the outer end of said casing, one leg of said projection extending transversely of said casing, the other leg of said projection projecting beyond the outer end of said casing and spacing said one leg from said casing, said one leg having a pair of spaced ridges on its outer surface adjacent the junction of said legs and having a transverse bore therethrough adjacent its free end, said handle removably and rotatably seating between said ridges to seat said valve head, said transverse bore being adapted to receive a lock for preventing removal of said handle.

**2,648,518**
**REMOTE CONTROL METERING VALVE**
Russell R. Curtis, Bedford, Ind., assignor to Curtis Automotive Devices, Inc., Bedford, Ind., a corporation of Ohio
Application October 17, 1949, Serial No. 121,807
7 Claims. (Cl. 251—24)

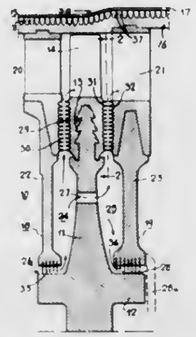


2. A valve comprising a tubular body having an axial passage therethrough with a counterbore in one end thereof, an external thread on the other end thereof, and an external shoulder spaced from the counterbored end, a cup having an apertured bottom seated on said shoulder and a side wall surrounding the counterbored end of the body, a collar surrounding said body inside of said cup and bottomed on the apertured bottom of the cup to hold the cup against said shoulder, a discharge tube secured in the side wall of the cup, said cup providing a discharge chamber surrounding the counterbored end of the body and communicating with said tube, a bonnet affixed to the open end of the cup, a flexible diaphragm clamped between the cup and bonnet, a stem guide on said bonnet spaced from the diaphragm, a stem slidable in said guide having an outturned flange portion overlying the central portion of the diaphragm and a threaded bore in the flanged end of the stem, a piston comprising a shank projecting through said diaphragm and threaded into said bore of the stem and a head underlying the diaphragm to cooperate with the flanged end of the stem for sealingly clamping the diaphragm therebetween, a bushing seated in said counterbore sized for slidably receiving the piston to control flow through the body into the cup, and means on said bonnet for actuating said stem to shift the diaphragm from a valve closing position against the counterbored end of the body with the piston seated in the bushing and a fully opened position with the diaphragm and piston spaced from the body while the stem guide holds the piston in alignment with the body for reinsertion in the bushing, and said piston and bushing having coacting sides for metering flow from the body to the cup when the diaphragm is moved off the body and before the piston is moved out of the bushing.

**2,648,519**
**COOLING COMBUSTION TURBINES**
Secondo Campini, Milan, Italy
Application April 22, 1948, Serial No. 22,535
3 Claims. (Cl. 253—39.15)

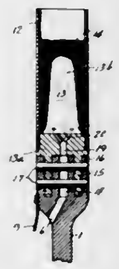
1. In a gas turbine, a disc-like rotor having peripherally disposed bucket means, a housing enclosing said rotor and comprising an inner jacket and an outer jacket, said inner jacket mounting a pair of stator rings disposed on opposite sides respectively of said rotor, said stator rings having guide vanes positioned to direct a hot gaseous stream against and away from said bucket means respectively, said stator rings being spaced axially, and at least one of said rings being also spaced radially, from said rotor to provide passages for the flow of cooling air therebetween,





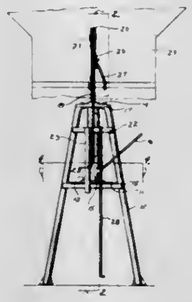
said rotor being perforated to connect said passages, said inner jacket being spaced from said outer jacket for the flow of cooling air therebetween, and said inner jacket being slotted adjacent said rotor bucket means for directing said cooling air thereagainst.

**2,648,520**
**AIR-COOLED TURBINE BLADE**
Heinz E. Schmitt, Dayton, Ohio
Application August 2, 1949, Serial No. 108,175
3 Claims. (Cl. 253—39.15)
(Granted under Title 35, U. S. Code (1952), sec. 266)



1. In a gas turbine power plant including a source of high pressure air, a turbine blade construction comprising a metallic shell having a typical blade shape on its outer surface, means to retain said shell on a turbine wheel associated therewith including a longitudinally extending central metallic core member inside said shell and spaced from the inner surface of said shell, means on said core member to retain said member on the turbine wheel, means provided in said core member to conduct a minor portion of said high pressure air into one end of said metallic shell for passage between the shell wall and the core member, means providing at least one air escape opening from said metallic shell, and foraminous metallic means rigidly attached to the shell and the core member to support the shell on the core member at the same time providing an extensive heat transfer area exposed to said high pressure air circulating through said shell.

**2,648,521**
**HOIST**
Charles M. Sales, Seymour, Iowa
Application March 2, 1950, Serial No. 147,176
6 Claims. (Cl. 254—139)

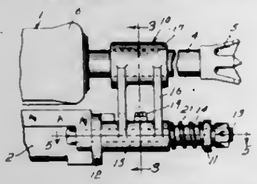


2. In a portable hoist comprising an upstanding prop form body portion having side members spaced apart at their upper ends and providing laterally spaced supporting surface-engaging base portions, a cross member connecting said side members intermediate the ends of the latter; a removable jack unit including a base-providing housing, a lineally extensible lift element working in said housing and an actuating means for the lift element; interengaging and lateral shift-preventing seating means for said jack provided by said jack-housing base and said cross member and comprising interfitting boss and socket means, said interengaging means disposing said jack-housing so that the lift element-actuating means of the jack is clear of said side members of the hoist body, a removable side member-connecting cap at the upper end of said jack housing, said cap overlying in close adjacency at least a portion of the upper end of said jack housing to retain said boss and socket seating means in engagement, and said cap member providing a guide opening for said extensible lift element.

**2,648,522**
**METHOD OF RECOVERING LOST CIRCULATION IN WELLS**
Arthur L. Armentrout, Long Beach, Calif.
No Drawing. Application April 24, 1951, Serial No. 222,744
3 Claims. (Cl. 255—1.8)

1. The method of recovering circulation which has been lost in the course of drilling a well which comprises introducing into the circulation fluid successive slugs of screened gravel which slugs are of progressively decreasing particle size and each of which has mixed therewith a sealing composition comprising an aqueous mixture containing substantial amounts of coarse ground, dried, bentonite clay, expanded perlite, and a finely divided silicious material whereby the larger gravel particles in the slugs first to be introduced may lodge in cracks or crevices in which the circulation is being lost and form a framework on which the smaller particles may deposit and the sealing composition may occupy the spaces between the particles and due to the continued expansion of the bentonite clay by its absorption of water after it has come to rest between the particles the entire mass may be locked in place.

**2,648,523**
**DRILL STEEL GUIDE**
**Charles F. Osgood, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Continuation of application Serial No. 539,832, June 12, 1944. This application June 18, 1947, Serial No. 755,427**
**20 Claims. (Cl. 255—51)**



1. In a rock drill of the kind which includes a support along which a drill steel actuator is guided for movement toward the work, a drill steel guide carried by said support at the front end thereof and including a guide arm engageable with a drill steel to be guided, pivot providing and guiding means on said support for mounting said arm for pivotal movement about an axis parallel to the longitudinal axis of the drill steel into and out of guiding relation with the steel and for guided bodily movement in the direction of the axial line of the pivot lengthwise of the drill steel, said actuator as it moves forwardly along said support acting on said arm to effect forward bodily movement thereof along said guiding means, and arm swinging means for swinging said arm laterally about its pivotal axis away from the drill steel as said arm moves forwardly bodily along said guiding means, said swinging means comprising cooperating swing-effecting elements respectively on said guiding means and said arm and having relative movement for imparting a lateral swinging force to said arm to swing the latter outwardly as the result of such forward guided bodily movement of said arm, and said arm having spaced lateral portions successively engageable by said actuator as the latter moves forwardly, said actuator first engaging one arm portion to move said arm bodily to effect swinging of said arm outwardly about its pivot to effect partial lateral release of said arm from the steel and said other arm portion moving, upon partial release of said arm as aforesaid, into the path of said actuator as said first portion moves out of the path of said actuator, to effect by engagement with said latter portion further outward swinging of said arm about its pivot thereby completely to release said arm from the steel.

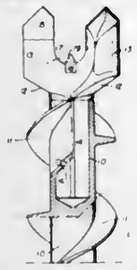
**2,648,524**
**MINING TREPAN**
**Joseph Dionisotti, Monthey, Switzerland**
**Application November 21, 1947, Serial No. 787,267**
**In Switzerland November 23, 1946**
**1 Claim. (Cl. 255—64)**

A mining trepan comprising a body member, a bit member secured to the lower end of said body member, said bit member having a plurality of sets of tooth portions projecting laterally and downward, the tooth portions of each set having cutting edges positioned substantially in a plane extending at a right angle from the longitudinal axis of the trepan, the planes pertaining to different sets being axially spaced and the radial distance of the cutting edges of one set of tooth portions from the longitudinal axis of the trepan being greater than the radial distance of the cutting edges of the set below by substantially the axial distance between their planes, and the axial



distance between the planes of the two uppermost sets of tooth portions being smaller than that between the planes of the other sets.

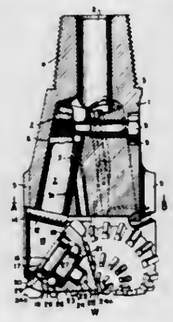
**2,648,525**
**CORE-BREAKING DRILL BIT FOR DOUBLE-FLUTE AUGERS**
**Orville Phipps, Adams County, Colo.**
**Application June 9, 1948, Serial No. 31,876**
**1 Claim. (Cl. 255—69)**



In an auger-type drill bit having a body of tractable metal formed with angularly-spaced, radially-offset, like fingers outstanding in spaced parallelism of their inner side margins with its axis for generation of an annular trough cut as an incident of body rotation, means rotatable with said body to disrupt the core of material centrally of said trough cut, said means comprising a pyramidal block of alloy material formed with a rectangular base portion, an axially-opening slot diametrically of said body between said fingers for the fitted reception of said block base portion, whereby to mount said pyramidal block as a coaxial projection from said body spacedly adjacent and between the body-fixed ends of said fingers, and a permanent bond uniting engaged surfaces of said slot and block base portion.

**2,648,526**
**ROTARY EARTH BORING BIT**
**George Herbert Lanchester, Dagenham, England, assignor, by mesne assignments, to Clyde Drilling and Prospecting Equipment Company Limited, Dagenham, England, a British company**
**Application October 6, 1947, Serial No. 778,183**
**In Great Britain April 9, 1946**
**2 Claims. (Cl. 255—71)**

1. A rotary earth boring bit comprising a shank with at least three bores converging upwardly from the base thereof and with a bore extending transversely of said shank near the upper ends of said converging bores, said transverse bore fully intersecting one of said converging bores and partially intersecting each of the remaining converging bores, a stationary stub shaft removably mounted in each of said converging bores, an angularly disposed stub axle secured to the lower end of each stub shaft, a rotary cutter cone mounted on each stub axle, and a single locking



member adapted to be secured in said transverse bore to lock all said stub shafts in their respective bores, said single locking member having a threaded end, the stub shaft in said fully intersected bore being formed with a threaded transverse hole adapted to receive the threaded end of said locking member, and the remaining stub shafts each being formed with a peripheral locking recess to receive and fit around the body of the locking member in said transverse bore.



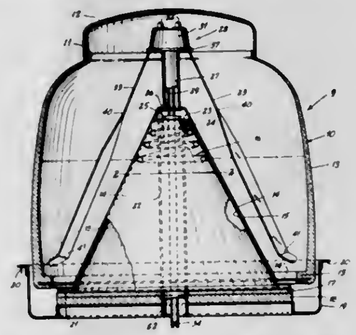
**2,648,527**
**HEAT EXCHANGER**
**Orson A. Carnahan, Syracuse, N. Y.**
**Application May 25, 1948, Serial No. 29,175**
**6 Claims. (Cl. 257—245)**



5. A heat exchange device having two series of passages for the flow of separate fluids in an opposed diagonal direction through said passages comprising a plurality of identically shaped sheets, each of said identically shaped sheets having a generally rectangular contour, being formed of heat conducting material having raised sections located a spaced distance from the edges of diagonally opposite corners, having depressed sections located a spaced distance from the edges in the other opposite corners of the sheet and apertures extending through said sheets within said raised and depressed sections, adjacently positioned identically shaped sheets arranged in spaced superimposed relation with corresponding depressed sections in engagement with each other and the apertures therethrough in alignment to provide passages located in diagonal corners of said sheet communicating between said adjacently positioned sheets and with opposite diagonally positioned raised sections and apertures therein in alignment with each other a spacing ring provided with openings in the side wall thereof positioned between said aligned raised section and around the aligned apertures of each of said adjacently positioned sheets, and closure means located adjacent the edges of said sheets to seal the spaces therebetween.

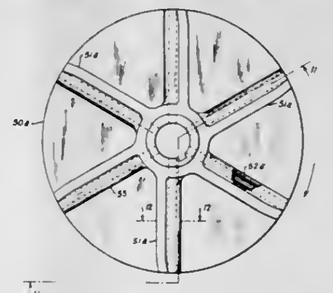


**2,648,528**
**BEVERAGE DISPENSER**
**George Persak, Jr., Verona, N. J., assignor to Lloyd E. Rabjohn, Los Angeles County, Calif.**
**Application March 30, 1950, Serial No. 152,928**
**4 Claims. (Cl. 259—107)**



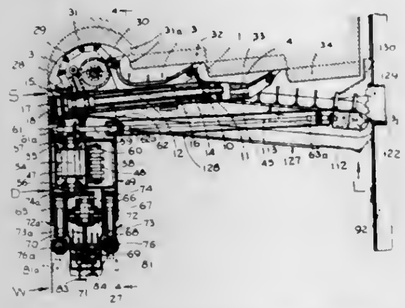
1. In a stirring assembly, in combination, a rotatable shaft, a driving head affixed to the shaft for rotation therewith, a paddle holder removably disposed on said head for normal movement therewith including spaced upwardly extending pins, and paddles supportingly connected to said holder for movement therewith, each paddle comprising a metal strip of uniform width and including an aperture receiving a pin for mounting the same.

**2,648,529**
**FROTH FLOTATION APPARATUS**
**Paul L. Wigton, Denver, Colo.**
**Application May 24, 1949, Serial No. 95,095**
**6 Claims. (Cl. 261—93)**



1. An impeller for flotation apparatus comprising a disc-like body having a hollow hub portion adapted for attachment to a rotary shaft, a series of non-radial blades disposed on the upper surface of the body at uniformly spaced intervals and extending from the hub to the periphery, a radial conduit extending from the hollow hub to a point adjacent the periphery at the trailing side of each blade, and a flexible nozzle at the end of each conduit having a normally closed discharge opening at its outer extremity expansible by pressure of the gas to effect its discharge at the periphery.

**2,648,530**
**COMBINED SHEARING AND LOADING MACHINE**
**Julius Yarmak, Wakefield, Yorkshire, England**
**Application June 9, 1948, Serial No. 31,996**
**In Great Britain July 8, 1947**
**6 Claims. (Cl. 262—8)**



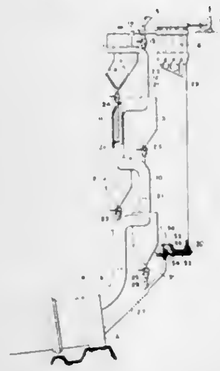
3. In a combined shearing and loading machine, the shearing mechanism comprising an arm pivotally mounted on a substantially vertical axle to swing in a horizontal plane, said arm being located within one of the two forward corners of the complete machine structure, one substantially vertical shearing edge attached to a lug at an extremity of said arm, said edge extending from the floor level to a height above the machine body, a rigid frame slidably mounted in the forward portion of the machine structure, several spaced substantially vertical shearing edges each attached to a lug of said frame, and each projecting in the front of the machine structure, said edges extending from the floor level to substantially the same height as said pivotal shearing edge; each said shearing edge comprising several super-posed detachably mounted wedge-shaped tool elements, power driven means to reciprocate said frame in a horizontal plane across the machine, a chain cable anchored by one end to said arm at a point between its pivot axle and the extremity, said cable being secured by the second end to said frame for pivoting said arm in a forward direction through pull of said cable during a forward stroke of said frame, a contour profile formed on said frame and adapted to thrust against rollers attached to said arm for pivoting said arm back during a back stroke of said frame.

**2,648,531**
**WIRE ENAMELING OVEN**
**Leonard J. Shorek and William L. Best, Detroit, Mich., assignors to Young Brothers Company, Detroit, Mich., a corporation of Michigan**
**Application November 26, 1949, Serial No. 129,628**
**1 Claim. (Cl. 263—3)**



In an oven having a work tube through which a wire or the like is adapted to be conducted, a combustion chamber in communication with such work tube, a pilot burner and a main burner located in such combustion chamber, and a fresh air inlet likewise in communication with such work tube; a damper located intermediate such fresh air inlet and such work tube, a second damper located intermediate such combustion chamber and such work tube, and manual control means adapted selectively, in order to condition such oven for normal operation, simultaneously to render operative such main burner, close said first damper, and open said second damper, and also, in order to admit unheated air into such work tube while isolating such combustion chamber from the influence of such air, simultaneously to render inoperative such main burner without affecting such pilot burner, open said first damper, and close said second damper.

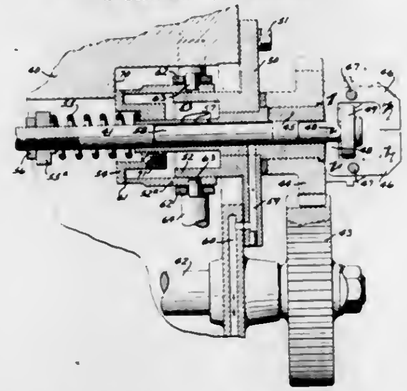
**2,648,532**
**HEATING APPARATUS FOR PROCESSING FINE-GRANULAR MATERIAL**
**Franz Müller, Refrath, and Leonhard H. Winners, Koln-Kalk, Germany, assignors to Klockner-Humboldt-Deutz Aktiengesellschaft, Koln, Germany, a German corporation**
**Application October 15, 1952, Serial No. 314,862**
**In Germany October 20, 1951**
**5 Claims. (Cl. 263—32)**



1. Apparatus for heating fine-granular material, such as cement raw material, by waste gases, comprising a series of cyclone-type dust separators disposed at different respective heights, each separator having a tangential gas inlet and an upwardly directed gas outlet conduit and a downwardly extending dust discharge pipe, each lower separator having its gas outlet conduit joined with the gas inlet of an upper separator to form a continuous ascending gas path, blower means joined with said path for forcing gas upwardly through said series of separators, each upper separator having its dust discharge pipe terminate within the gas outlet conduit of a lower separator to form a descending path for material, each of said dust discharge pipes having an upper portion and a lower portion vertically spaced from each other, a housing enclosing the space between said two portions and having a bottom opening joined with said lower portion, said upper portion having a slanted opening at its lower end within said housing, a pendulous lid disposed in said housing for closing said opening and hinged near the upper edge portion of said slanted opening, and a loading weight joined with said lid for biasing said lid toward closed position.

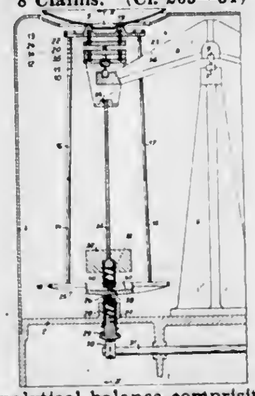


**2,648,533**
**CENTRIFUGAL TYPE GOVERNOR HAVING HYDRAULICALLY ASSISTED SPEED SETTING CONTROL**
**Carl R. Maxwell, Washington, and Kenneth J. Fleck, Peoria, Ill., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California**
**Original application November 4, 1947, Serial No. 783,958. Divided and this application December 22, 1950, Serial No. 202,295**
**2 Claims. (Cl. 264—3)**



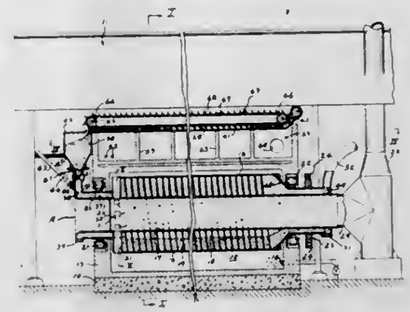
1. In a spring balanced centrifugal type governor, a hydraulically actuated piston serving as a retainer for one end of a governor spring, a cylinder receiving fluid under pressure to effect movement of the piston, a foot actuated member for controlling the pressure of the fluid in the cylinder, a passageway including a plurality of orifices for admitting said fluid under pressure to the cylinder, and means on said piston to close said orifices one at a time as the piston is moved in a direction to reduce the load on the governor spring whereby the flow of fluid to the cylinder is progressively retarded as the governor is adjusted toward its low speed operating position.

**2,648,534**
**ANALYTICAL BALANCE**
**Erhard Karl Mettler, Zollikon (Zurich), and Johann Meier, Kusnacht (Zurich), Switzerland**
**Application August 14, 1951, Serial No. 241,774**
**In Switzerland April 28, 1951**
**8 Claims. (Cl. 265—54)**



1. An analytical balance comprising a balance beam having a central knife edge and on one of its arms a terminal knife edge, a suspension member seated on said terminal knife edge, a pan carrier extending above and below said suspension member, a supporting linkage disposed above said suspension member and pivotally supporting said pan carrier on said suspension member, a balance pan disposed on said pan carrier above said supporting linkage, a stabilising weight mounted on said pan carrier below said suspension member, an auxiliary carrier pivotally supported on said suspension member and extending below said terminal knife edge, and a counterweight mounted on said auxiliary carrier below said terminal knife edge in order to obtain a stable equilibrium of said suspension member seated on the terminal knife edge of the balance beam.

**2,648,535**
**APPARATUS FOR GASEOUS REDUCTION OF IRON ORE**
**Erskine Ramsay and Robert T. Bagby, Birmingham, Ala.**
**Application July 10, 1950, Serial No. 172,876**
**8 Claims. (Cl. 266—24)**



2. Apparatus for partial gaseous reduction of iron ore comprising a combustion chamber, a rotary converter having inner and outer cylindrical walls and rotatably mounted in said combustion chamber, there being a centrally disposed flue through said converter defined by said inner cylindrical wall, a plate sealing the forward end of said flue and a smoke stack at the rear end thereof, there being openings at the forward end of said flue communicating said flue with the combustion chamber, there being a spiral passageway through said converter between said inner and outer cylindrical walls, means to introduce the ore to be reduced and a hydrocarbon gas into the forward end of said spiral passageway under pressure, and burners in the combustion chamber heating the ore and hydrocarbon gas to a temperature to decompose the gas into hydrogen and carbon and partially reduce the ore with a portion of the hydrogen gas.

**2,648,536**
**SPRING MOUNTING FOR VEHICLES**
**Sigvald F. Udstad, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey**
**Application February 2, 1951, Serial No. 209,085**
**3 Claims. (Cl. 267—33)**

1. In a resilient mounting for railway vehicles the combination of, an axle, a yoke pivotally mounted on the axle for swinging movement axially thereof, a metallic spring supported at its lower end on said yoke, an inner downwardly open cup-like member resting on and housing

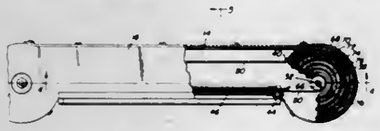
the upper end of said spring, an outer downwardly open cup-like member having side walls overlapping the side walls of said inner cup member, means pivotally connecting said outer cup-like member to said vehicle for swinging move-



ment about an axis substantially parallel to said first-named pivotal mount, and rubber bonded to the overlapping side walls of the cup-like members and acting in shear to transmit load from the vehicle to the spring.

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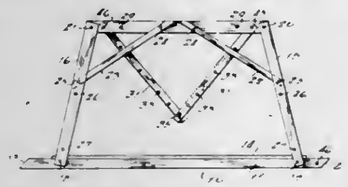
**2,648,537**
**DISPLAY SIGN**
**Joseph Teitelbaum, Brooklyn, N. Y.**
**Application October 31, 1949, Serial No. 124,527**
**11 Claims. (Cl. 271—2.3)**



11. In a display sign having a display casing, a drive means container and a continuous display web in said casing, a web winding device comprising a pair of shafts mounted in spaced apart relation in the casing, a pair of web engaging sprockets on each of said shafts, a plurality of radially spaced loop-forming arcuate guides concentric with each of said shafts, said web being entrained over said shafts and said guides.

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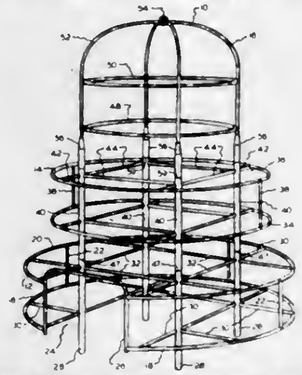
**2,648,538**
**CONVERTIBLE PLAYGROUND APPARATUS**
**Homer R. Robbins, Amarillo, Tex., assignor to E. Y. Brown, Fort Worth, Tex.**
**Application February 17, 1950, Serial No. 144,825**
**1 Claim. (CL 272—60)**



A ladder climbing device for use as an exercising apparatus for children, comprising a base unit, said base unit including a pair of spaced parallel runners, and an elongated board spanning and rigidly secured to the runners, said runners having apertures in opposite end portions thereof and projecting beyond opposite ends of the board, pairs of upright perforated bars secured at their lower ends to opposite ends of the runners, a further pair of perforated bars rigidly connecting the upper ends of the first named bars, inclined braces connecting the intermediate portions of the first named perforated bars with the intermediate portions of the second named perforated bars, a pair of ladder units suspended from the second named bars near the opposite ends thereof, and means connecting the lower ends of said ladder units together in adjacent relation.

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**2,648,539**
**PLAYGROUND CLIMBER**
**Gordon W. Packer, Litchfield, Mich.**
**Application July 1, 1949, Serial No. 102,600**
**1 Claim. (Cl. 272—60)**



A sectional playground climber comprising a plurality of vertically stacked sections, each section having integrally fabricated horizontal, vertical and peripheral encompassing members, each of said sections including a vertically spaced pair of said peripheral encompassing members, said vertical members of each section being at least three in number and located inside of said pair of encompassing members and intersecting the planes of said encompassing members and being widely spaced from each other to give stable vertical support to said sections, said horizontal members of each section being substantially disposed in the planes of said encompassing members with some of said horizontal members extending between said encompassing members and each of said vertical members and the remaining horizontal members extending between adjacent said vertical members of each section, said vertical members being tubular, vertical post members having end portions to be received in the ground, abutment structure on said post members at the upper end of said ground receiving portion, said vertical members of said sections telescoping with said posts with the lowermost of said sections resting upon said abutments and the next upper of said sections abutting the upper end of said vertical members of said lowermost section and supported thereby, a dome section having vertical portions telescoping with the upper end of said post and abutting with the upper end of the vertical members of the uppermost of said sections, a minor portion of the encompassing members of said lowermost section defining an arch for ingress into the interior of the structure defined by said members.

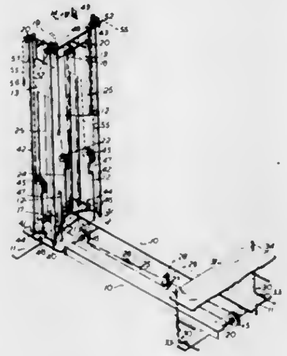
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**2,648,540**
**WEIGHT RAISING EXERCISING APPARATUS**
**William Hunter, Edinburgh, Scotland**
**Application January 26, 1951, Serial No. 207,903**
**In Great Britain February 16, 1950**
**12 Claims. (Cl. 272—81)**

1. Exercising apparatus comprising an upper fixed pulley, a lower fixed pulley, a rope passed



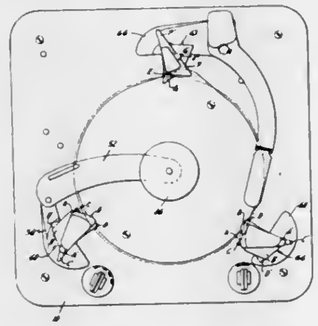
around said pulleys and extending from the lower pulley in a substantially horizontal direction, a weight suspended from the rope at a point in advance of the passage of the rope over the upper



pulley to the lower pulley, a pulley block housing a pulley engaged with a straight section of said rope between a pair of said pulleys and means on said pulley block for enabling it to be attached to a person for deflecting the rope.

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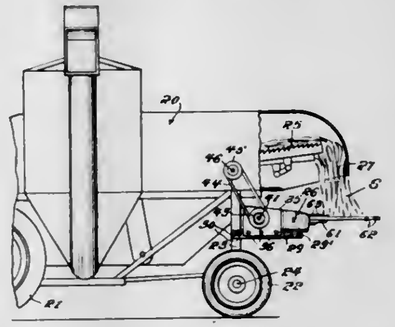
**2,648,541**
**RECORD CHANGER APPARATUS**
**Farlow B. Burt, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application October 26, 1949, Serial No. 123,626**
**7 Claims. (Cl. 274—10)**



1. An automatic phonograph comprising a turntable, three oscillatable posts spaced around the turntable, each of said posts being provided with a plurality of plates affixed thereto for rotation therewith and disposed in tiers for successively supporting a record being transferred to said turntable, the plates of two of said posts being arranged thereon so that the top plates of the tiers are clear of the lowermost record of a stack but lie adjacent the edge of said record and on the same level therewith and the second plates of said tiers project under the periphery of the lowermost record of said stack, the plates of the third of said three posts being arranged so that the top plate of said tier projects under the periphery of the lowermost record of said stack and the second plate of said tier is clear of said lowermost record and on a level below said last named top plate a distance equal to substantially the thickness of a record, the top plate of said third post being arranged on the same level with a record resting on said last mentioned second plate, the tiers of said two posts being provided with a third plate located below the level of said other plates and clear of said lowermost record, and means for oscillating said posts in unison to cause the top plates of said two posts to engage the edge of said lowermost record to shift the same along the second plates of said two posts and the top plate of said third post, said top plate of said third post withdrawing from said lowermost record and said second plate of said last mentioned post rotating under said lowermost record, after which said third plates of the two posts are rotated under said lowermost record to support the same at its periphery temporarily until the top plate of said third post is returned to thereby urge the lowermost record off said second plate in timed relationship to withdrawal of said third plates from said record, to thereby release a record for deposit on said turntable.

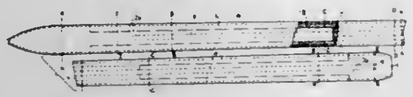
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**2,648,542**
**STRAW SPREADER FOR COMBINES**
**Floyd Wickell and Thomas Green, Mount Sterling, Ohio**
**Application February 13, 1951, Serial No. 210,641**
**2 Claims. (Cl. 275—3)**



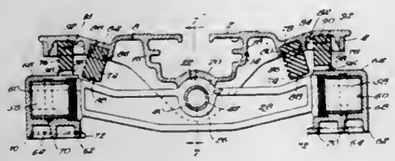
1. In a straw-spreading mechanism for attachment to a combine, the combination with a vertically disposed beam, horizontally disposed angle irons projecting rearwardly from said beam and secured thereto, a horizontally disposed platform supported on said angle irons and secured thereto, flanges depending from said platform, a cover mounted over said platform and connected to said flanges, a U-shaped bracket including a web secured to said platform, and a pair of spaced parallel legs projecting upwardly from said web, a shaft rotatably supported by said legs, a pulley mounted on one end of said shaft and adapted to be connected to a source of power, a cam mounted on the other end of said shaft, an arm having one end pivotally connected to said cam, a casing connected to the other end of said arm, a link pivotally connected to said casing, there being a slot in said cover, a plate slidably arranged in said slot and having a shank connected to said link, and a plurality of spaced fingers extending rearwardly from said plate and connected thereto.

**2,648,543**
**LAMINATED SKI**
**Edward Witold Grabowski, Harrow-on-the-Hill, England**
**Application December 30, 1949, Serial No. 135,925**
**In Great Britain January 10, 1949**
**2 Claims. (Cl. 280—11.13)**



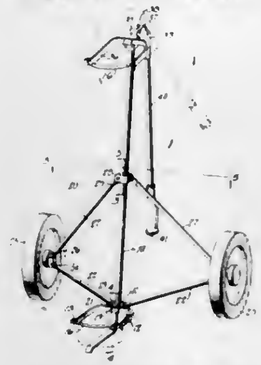
1. A lightweight and relatively strong ski having a flexibility progressively varying along its length comprising an upper member and a lower member each formed from water-impervious material composed of integrally united laminations of synthetic resin impregnated sheet material bonded with the same synthetic resin, said upper member and lower member increasing in width from a location near the centre of length of the ski towards the respective ends of the latter, a pair of spaced side walls interposed between longitudinal marginal edges of the said upper and lower members, one side wall at each longitudinal edge, the outer faces of the said side walls diverging towards the respective ends of the ski in register with the corresponding edges of the upper and lower members, the inner faces of the said side walls diverging less than the outer faces thereof, a waterproof synthetic resin binder means adhesively uniting the side walls to the upper and lower members to constitute a box-like structure, a solid block within the box-like structure filling the space at the location where a binding is to be secured on the ski, a unitary piece of hard vesicular material within the box-like structure extending between the solid block and the toe of the ski and a second unitary piece of hard vesicular material within the box-like structure extending between the solid block and the heel of the ski.

**2,648,544**
**RESILIENTLY MOUNTED FIFTH WHEEL MEMBER**
**Frank H. Kayler, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**
**Application February 12, 1949, Serial No. 75,990**
**16 Claims. (Cl. 280—33.05)**



8. In a device for coupling tractor-trailer combinations, a plate member, a support, a pivotal connection between said member and said support accommodating relative lateral angling therebetween, and resilient means interposed between said member and support at opposite sides of the axis of pivot thereof for compression therebetween during lateral angling thereof, each of said independent resilient means comprising a plurality of resilient elements spaced radially with respect to the axis of pivot of said member and formed and arranged for successive compression between said support and said member during angling therebetween.

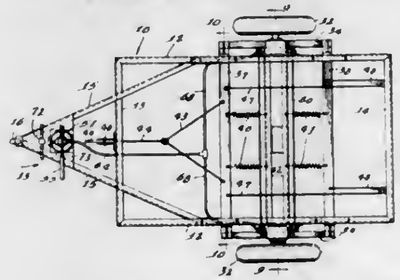
**2,648,545**
**CART FOR GOLF BAGS**
**Robert K. Cassidy, Vancouver, Wash.**
**Application March 4, 1950, Serial No. 147,604**
**2 Claims. (Cl. 280—42)**



1. A golf cart comprising an elongated, bag-supporting frame shaft, a rearwardly extending handle hingedly mounted on the upper end of said frame shaft, forwardly extending bag-supporting means mounted on said frame shaft, a fixed rod mounting head fixed to the lower end of said frame shaft and comprising a pair of lower rod forks extending in equal, acute angular relationship rearwardly of a transverse plane including the axis of said frame shaft as an element, a pair of lower rod pivots respectively extending normally to said lower rod forks, a similarly shaped, movable rod mounting head slidably mounted on said frame shaft above said fixed rod mounting head and comprising a pair of upper rod forks extending in the same angular relationship as said lower rod forks, a pair of upper rod pivots respectively extending normally to said upper rod forks and parallel to said lower rod pivots, a pair of lower rods respectively connected in said lower rod forks by said lower rod pivots, said lower rods being movable from collapsed positions substantially parallel to and closely adjacent said frame shaft to operative positions extending rearwardly and outwardly from said frame shaft along the legs of the angle defined by said lower rod forks, a pair of upper rods respectively connected in said upper rod forks by said upper rod pivots, said upper rods being movable from collapsed positions substantially parallel to and closely adjacent said frame shaft in alignment with said lower rods to operative positions extending rearwardly and outwardly from said frame shaft along the legs of the angle defined by said upper rod forks, a pair of wheel supporting members, a pair of wheel spindles respectively mounted on said wheel supporting members in outwardly extending relation thereto, said wheel supporting members each comprising a lower wheel fork and an upper wheel fork, said wheel forks extending toward said frame shaft in equal acute angular relationship forwardly of a plane passing through the axes of said spindles and parallel to said first-mentioned plane when said rods are in operative positions, the acute angularity thereof being equal to the first-mentioned acute angularity, means pivotally connecting the respective outer ends of said lower rods within said lower wheel forks and the outer ends of said upper rods within said upper wheel forks, a pair of wheels rotatably mounted respectively on said wheel spindles, means to latch said movable rod mounting head at a lower operative position along said frame shaft when said rods are in their operative position and said wheels are in ground engaging position, and to latch said movable rod mounting head at an upper position along said frame shaft when said rods are in their collapsed position and said wheels are drawn to inoperative positions closely adjacent and parallel to said frame shaft with said wheel spindles in axial alignment with each other.

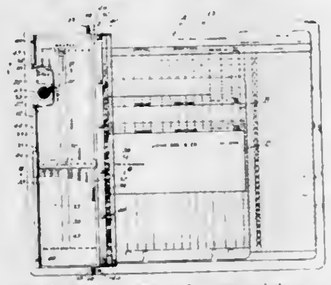


**2,648,546**
**HYDRAULIC LIFT TRAILER**
**John C. Falkenhagen, Chicago, Ill., assignor to George L. Nadell, Chicago, Ill.**
**Application July 12, 1949, Serial No. 104,275**
**8 Claims. (Cl. 280—44)**



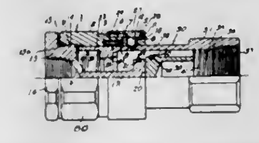
1. A lift trailer comprising a frame assembly, supporting wheel assemblies on opposite sides of the frame assembly, coacting formations on the frame and wheel assemblies providing for relative guided movements of the frame assembly, spring means carried by each wheel assembly, bars on the frame assembly movable in one direction to rest on the spring means to support the frame assembly thereon and in the opposite direction to clear the spring means and permit descent of the frame assembly, and a hydraulic system including a pump, a cylinder carried by each wheel assembly, a piston movable upwardly in the cylinder to engage the frame assembly and raise the same to transporting position, and throttle means for controlling the gravity descent of the frame assembly when the bars are freed of the spring means and the pump is not operating.

**2,648,547**
**BOOKKEEPING DEVICE**
**Arthur J. Bickel, Chicago, Ill., assignor to Accounting Forms, Inc., a corporation of Wisconsin**
**Application December 19, 1949, Serial No. 133,858**
**4 Claims. (Cl. 282—29)**



1. A bookkeeping record comprising a posting board having a plane upper surface adapted to receive a plurality of accounting records having marginal indicia thereon, a first clamping plate extending along one side margin of the board in spaced relation to said upper surface and having a transparent depending marginal portion providing a straight edge for coaction with said upper surface to retain a first record thereon with its indicia visible through the transparent marginal portion, means pivotally connecting said first plate and said board, resilient means interposed between said first plate and said board to urge said edge toward said board, a second plate also extending along the margin of said board in spaced relation to said first plate and having a transparent depending marginal portion providing a straight edge for coaction with said upper surface in spaced parallel relation to said first plate edge for contacting a second accounting record with the marginal indicia thereof and the marginal indicia of said first record being visible through the transparent marginal portions of said plates, means pivotally connecting said second plate to said first plate, and resilient means confined between said second plate and said board for urging the edge portion of said second plate into contact with said board surface.

**2,648,548**
**VALVED PIPE COUPLING**
**Albert T. Scheiwer, Erie, Pa.**
**Application September 2, 1948, Serial No. 47,520**
**3 Claims. (Cl. 284—18)**



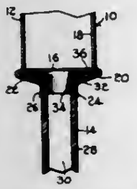
1. A coupling comprising a hollow male coupling member having an open ended connecting portion and having a peripheral groove, a spring urged check valve mounted in said hollow male member and having a sealing means thereon, a female connecting member having an outer cylindrical shell with radially extending cam retaining apertures therein, cam members carried in said cam retaining apertures, a spring urged locking sleeve telescopically disposed on said shell locking said cam members in engagement with said peripheral groove on said male member and telescopically slidable to a retracted position to allow said cam members to move out of said groove, a solid cylindrical inner member concentrically disposed in said shell supported on said shell by an apertured web, said web being attached to said inner cylindrical member and to said shell, and a spring urged longitudinally movable inner sleeve in said female member, said sleeve being in engagement with the inside of said shell and spaced from said inner cylindrical member, said cam members extending inwardly of the inside of said shell, said cylindrical member engaging said spring urged male member check valve holding the sealing member thereon in spaced relation to said hollow male coupling member the end portion of the male member engaging said movable inner sleeve and holding said sleeve in spaced relation to said inner cylindrical member, said locking sleeve slidable over said cam members allowing said cam members to move out of said peripheral groove and said hollow male member to move out of said female member and said spring urged inner sleeve to sealingly engage said cylindrical member and said cam members whereby said cam members are held in engagement with said locking sleeve, holding said locking sleeve in retracted position.

**2,648,549**

## HOUSING FOR ELECTRICAL DEVICES AND THE LIKE

**Clement A. Woodward, Wellesley, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**

**Application March 4, 1949, Serial No. 79,637**
**1 Claim. (Cl. 285—71)**



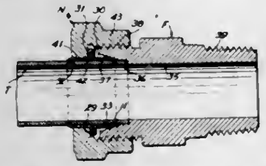
A waterproof housing and hose assembly comprising a substantially tubular housing member, a flexible hose having compressible walls, and a hose-retaining member, said housing member having an annular, angularly inwardly extending flange at one end and an axially outwardly extending collar on the radially inner edge of said flange defining an opening of less diameter than the outer diameter of said hose, said housing member at said one end including a grooved wall portion with an inwardly opening annular groove adjacent the radially outer periphery of said inwardly extending flange, said hose-retaining member comprising a relatively inelastic tubular portion having an outer diameter substantially equal to the inner diameter of said hose and an outwardly extending circumferential flange at one end of the tubular portion provided with housing-engaging edge portions at the outer periphery of said flange and normally having a bowed cross-section with the outer periphery normally disposed intermediate the ends of the tubular portion, said hose extending into said housing member through said collar, said hose-retaining member being disposed within said housing member with the tubular portion extending within the hose and compressing the walls thereof between the tubular portion and said collar, the end of said hose disposed within said housing member being flared outwardly into engagement with said flange of said housing member, and said outwardly extending flange being flattened into tensioned engagement in said groove.

**2,648,550**

## RESILIENT INTERCHANGEABLE TUBE COUPLING

**Louis B. Courtot, Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio**

**Application August 17, 1948, Serial No. 44,771**
**2 Claims. (Cl. 285—122)**



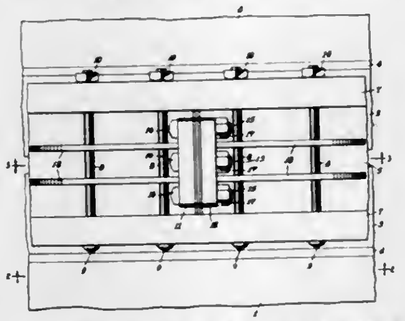
1. A tube coupling comprising a first fitting member having an internal outwardly flaring wall, a fluid conducting bore, and an intermediate seat for the end of a tube, a second fitting member having a bore and a shoulder facing said flaring wall, means to draw said fitting members together, and a unitary cutting ring, said ring comprising a pair of aligned substantially duplicate cylindrical portions joined by an intermediate resilient rib having spaced walls, said ring being constructed and arranged so that when the coupling is assembled with the tube one cylindrical portion is disposed freely in the bore of said second fitting member, said shoulder of said second fitting member engaging the outer wall of said rib at the base thereof adjacent the juncture of said rib with said cylindrical portion for urging the walls of said rib into engagement substantially adjacent to the cylindrical portions and the end of the other of said cylindrical portions into engagement with said flaring surface of said first fitting member, said shoulder advancing said ring axially against said flaring wall thereby camming said end into the surface of the tube until said surface is cut thereby, said resiliency of said rib biasing said end axially against the tube.

**2,648,551**

## PIPE COUPLING

**Roger E. Risley and George D. Kish, Bradford, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio, a corporation of Pennsylvania**

**Application June 1, 1949, Serial No. 96,416**
**5 Claims. (Cl. 285—142)**



1. In a pipe coupling of the character described, a resilient sleeve member split transversely of its circumference, two rectangular cross-bars projecting outwardly from said sleeve member at the split ends thereof and having aligned bolt holes, the opposed faces of said cross-bars lying somewhat receded from the respective outer edges of the split ends of said sleeve member and having near their outer edges jutting out portions forming two opposed parallel contact faces lying at approximately the same distance from each other as said outer edges of said split ends, bolts in said holes for drawing said cross-bars toward each other to draw said sleeve member closely around the pipe, a substantially rectangular compressive side packing adapted to be placed between said split ends and said cross-bars for sealing the split in said sleeve member, said side packing consisting of a hard core with a coating of an elastic material on each side of said core, the core and coatings of said side packing being substantially coextensive with one another and with said cross-bars and the split ends of said sleeve, said packing thus having a continuous compressive portion that is pressed between the opposed faces of said split ends of said sleeve member to provide a fluid tight seal, and a substantially equal continuous compressive portion that extends the length of said cross-bars and is pressed between said contact faces of said cross-bars, when the latter are drawn up.

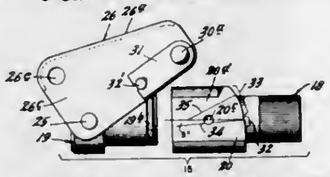


**2,648,552**

## RETAINER MECHANISM FOR QUICK DISCONNECT COUPLING

**Carlos B. Livers, North Hollywood, and Alvin A. Meddock, Van Nuys, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**

**Application August 3, 1949, Serial No. 108,294**
**3 Claims. (Cl. 285—172)**



2. In a coupling comprising a pair of fluid conducting fittings adapted to complete a fluid flow path therebetween when pressed together, means for detachably securing said fittings together comprising: a pair of latch-engaging shoulders on opposite sides of one fitting facing away from the other fitting; a latch hingedly secured to said other fitting for swinging movement about a hinge axis extending transversely of the fitting and having a pair of shoulder-engaging elements adapted to engage and ride along said shoulders during such swinging movement; said shoulders being of substantial length relative to said elements that ride therealong, and each shoulder having a final portion on which one of said elements rests in latched position, and an approach portion over which said element rides during swinging movement of the latch into and out of latched position, said final portion being in approximately longitudinal alignment with said latch axis and approximately tangent to a radius therefrom to said axis, said shoulders being progressively increasingly spaced from said axis along said approach portion to and in said final portion whereby movement of said latch into latched position continually draws said fittings together; and detent means independent of said shoulders and said latch elements for yieldably retaining said latch in said latched position, said detent means being constituted by portions of said one fitting and said latch respectively which portions have surfaces perpendicular to said hinge axis and closely spaced in juxtaposed relation to each other in said latched position, one of said portions having an aperture therein; a detent element positioned in said aperture and guided thereby for movement parallel to said hinge axis toward and away from said other portion; said other portion having a recess juxtaposed to said detent element in said latched position; and spring means urging said detent element in projecting relation from said aperture into said recess; at least said recess or the part of said detent element projecting thereinto having a surface so angularly disposed as to cam said detent element out of said recess against the force of said spring means in response to movement of said latch out of latched position.

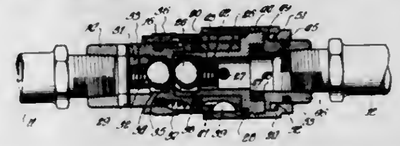
**2,648,553**

## DUSTPROOF HYDRAULIC COUPLING

**Raymond M. Ulrich, Roanoke, Ill., assignor to Ulrich Foundation, Inc., a corporation of Delaware**

**Application March 13, 1951, Serial No. 215,338**
**3 Claims. (Cl. 285—178)**

2. A separable coupling comprising a cylindrical male member having oppositely arranged projecting pins, a female member therefor having at one end oppositely arranged inclined slots, said pins protruding beyond said slots when said members are coupled together, a reciprocable sleeve surrounding said female member, means limiting said sleeve to linear movement and biasing said sleeve toward the slotted end of said female member so as to be normally flush therewith, said sleeve having at one end oppositely arranged axially transverse cut-away portions each provided with a latching recess for said pins and an inclined surface adjacent thereto for



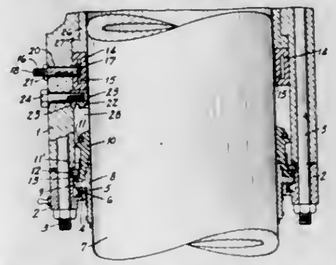
engaging said pins when said sleeve is reciprocated to produce rotary and linear motion of said male member, a fixed annular member enclosing said cut-away portions of said sleeve, said male member having a cylindrical portion as large as said annular enclosing member in abutment with said sleeve when coupled together, and a packing ring carried by a recess in the face of said cylindrical portion for engagement by said sleeve and said fixed annular member.

**2,648,554**

## INFLATABLE STANDBY SEAL FOR STATIONARY, REVOLVING, SLIDING, AND ROCKING TUBES AND THE LIKE AND SHAFTS AND THE LIKE

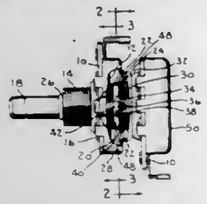
**Walter J. Gilbert, Sr., Indiana, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware**

**Application July 21, 1949, Serial No. 106,024**
**3 Claims. (Cl. 286—26)**



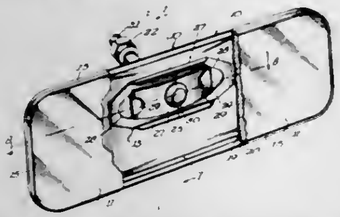
1. A standby seal comprising a stationary tubular housing having in its bore spaced radial shoulders forming an annular recess of rectangular cross section, an inner axial member of uniform diameter mounted for movement in said bore and closing said recess by providing a small clearance with the bore adjacent each shoulder, an annular elastomer of rectangular cross section with substantially square corners filling said recess and seating in the bottom of said recess and against both of said shoulders with the square corners adjacent said clearances, means defining a fluid passage in said elastomer, the front and back walls of the elastomer being substantially equal in thickness, valve stem means connecting said fluid passage exteriorly of said tubular housing to hold said annular elastomer in spaced relation with said inner axial member when depressurized and to admit fluid under pressure to said fluid passage to expand the wall of said elastomer to seal said small clearances with said square corners and against said inner axial member.

2,648,555
**COUPLING FOR GANGED ROTATABLY CONTROLLED UNITS**
**Henry J. Glueckstein, Waukesha, and Willy B. Volkmann, Milwaukee, Wis., assignors to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware**
**Application November 18, 1950, Serial No. 196,382**
**6 Claims. (Cl. 287—2)**



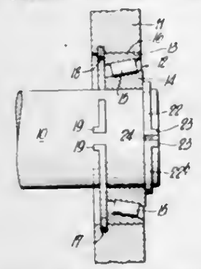
5. In a multiple unit device, a forward unit having a shaft, a stop plate on said shaft having laterally spaced fingers extending axially of said shaft, a rear unit secured to said forward unit and having a mounting bushing, a shaft rotatably mounted in said bushing with an end projecting therefrom, said end having an axially extending slot, said shaft having a groove in the side thereof at said end adjacent said slot, a retainer having a pair of spaced openings providing therebetween a bar adapted to slidably fit in said slot to prevent relative rotation between said retainer and said end, said openings receiving the portions of said end adjacent said slot to permit said retainer to be placed upon said end, one of said openings having an inner projection engageable with said groove to hold said retainer on said end and keep said shaft in said bushing, said retainer having spaced notches adapted to receive said fingers when said shafts are brought into axial alinement and said units secured together whereby said retainer acts as a coupler for said units.

2,648,556
**REAR-VISION MIRROR MOUNTING STRUCTURE OF THE UNIVERSAL TYPE**
**Frances Budreck, Chicago, Ill., assignor to Monarch Tool & Machinery Co., Chicago, Ill., a corporation of Illinois**
**Application December 9, 1950, Serial No. 200,059**
**8 Claims. (Cl. 287—21)**



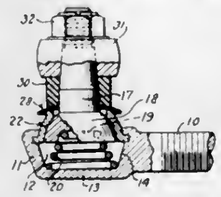
1. A rear vision mirror mounting structure comprising a shallow cup-shaped shell adapted to retain a mirror plate, formed of stamped sheet metal, embodying a rear wall and having a circular hole in a portion of its rear wall, and having as an integral part of its rear wall and around the hole a forwardly extending annular flange with the front end thereof bent outwards, a bracket-like plate fitting against the inner face of said portion of the shell rear wall, provided in its central portion with a circular hole in registry with the hole in the shell rear wall, and having its hole defining portion positioned directly behind, and in interlocked relation with, the outwardly bent front end of said annular flange, a rearwardly extending mounting arm disposed behind the shell, embodying attaching means at its rear end, and having the front end thereof disposed adjacent the two holes and provided with a ball shaped member that is disposed for the most part in the shell interior and has its rear portion in slidably seated relation with said outwardly bent front end of the annular flange, and an element disposed in front of the bracket-like plate, having a portion thereof in sliding engagement with the front portion of the ball shaped member and forming with the latter and said front end of the annular flange a universal joint whereby the shell together with the mirror plate may be angularly adjusted, and having other of its portions connected to the bracket-like plate.

2,648,557
**SPRING RETAINER RING**
**Robert G. Stewart, Sr., Pittsburgh, Pa., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application July 21, 1950, Serial No. 175,244**
**1 Claim. (Cl. 287—52)**



A retainer ring adapted to cooperate with a shaft, bearing or like machine element having a circumferential groove therein and longitudinal slots intersecting said groove, said ring comprising a flat segment so shaped and dimensioned that a circumferential edge thereof will fit snugly in said groove, said segment having a lug extending substantially normal to the plane of the segment at each end thereof, said lugs seating in said slots when the segment is sprung radially and restored to normal shape fitting snugly in said groove.

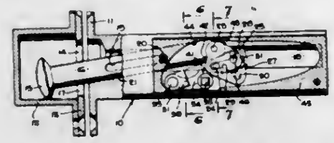
2,648,558
**EXPOSED SEAT UNIVERSAL JOINT**
**William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio**
**Application September 2, 1950, Serial No. 182,947**
**1 Claim. (Cl. 287—90)**



A universal joint comprising, in combination, an integral shallow housing and tie rod connecting member, said housing having an integral solid end wall, a flared inner base portion and an open end opposite said closed end; a solid ring-shaped hardened seat member having a spherically-shaped inner bearing surface and an outward end portion extending from one end of said spherical portion to the end of the seat member; an outwardly extending flange at the other end of said seat member; a transversely extending ledge in the inner wall of said housing member, said ledge being located adjacent the open end of said housing and said flange on said seat member contacting said ledge; an inwardly extending flange at the open end of said housing contacting said seat flange to clamp the same on said ledge with the seat member located substantially outside said housing; an integral ball stud and half ball located in said housing with the spherical portion of said half ball contacting the spherical surface of said seat member and the stud extending through said seat member and contacting said outward end portion thereof in the extreme position of oscillation of said stud; and expanding spring means for supporting said ball stud member interposed between said half ball and the solid end wall of said housing.



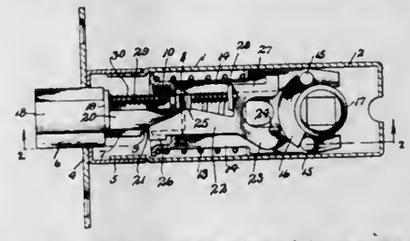
2,648,559
**LOCK**
**Adolf Schoepe, Anaheim, and John White Sinclair, Costa Mesa, Calif., assignors to Kwikset Locks, Inc., Anaheim, Calif., a corporation of California**
**Application March 30, 1950, Serial No. 152,868**
**10 Claims. (Cl. 292—66)**



1. A lock comprising a housing, a headed latch bolt mounted for sliding and tilting movement therein, a keeper having a keyhole type opening therein through the large end of which the head of the latch bolt may be projected and then on tilting of the latch bolt the small end of the opening may serve to retain the head therein, a plug slidable in the housing behind the latch bolt, and means connecting the plug and latch bolt for causing the plug and latch bolt to move together towards bolt-projecting position and then to tilt the latch bolt relative to the housing and cause the plug to enter between the latch bolt and the housing to lock the latch bolt in its tilted position.

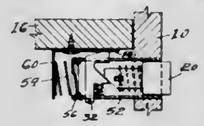
2,648,560
**LOCKING LATCH**
**Herbert Quigley, Hastings, and Herbert Young, Grand Rapids, Mich., assignors to National Brass Company, Grand Rapids, Mich., a corporation of Michigan**
**Application July 27, 1949, Serial No. 107,087**
**10 Claims. (Cl. 292—169)**

9. In a latch structure adapted to cooperate with a strike plate, said latch structure having a housing, a latch bolt, a retractor and roll-backs adapted to reciprocate said retractor axially of said housing, said latch bolt being adapted for reciprocation independently of said retractor, the improvement therein comprising: a transverse member on the end of said retractor adjacent said latch bolt; a locking member pivotally mounted to said housing; means for urging said locking member into engagement with said latching bolt; means for disengaging said locking member from said latch bolt when said latch bolt is extended and disengaged from said strike plate; a cam on said locking member; a bar on



said transverse member adapted to engage said cam on said locking member and pivot said locking member out of engagement with said latch bolt when said retractor is moved toward said roll-backs.

2,648,561
**PUSH-BUTTON LATCH**
**Robert W. Landon, Roscoe, Calif.**
**Application January 18, 1949, Serial No. 71,459**
**1 Claim. (Cl. 292—170)**

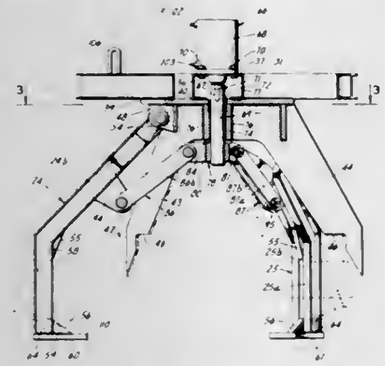


A push button catch and release for doors comprising a housing adapted to be fitted into the door, a push button slidably mounted in the outer end of the housing, an integral extension on the push button, a spring surrounding said extension, means for positioning the spring on the extension behind the push button, said means including a pin passing through the extension and fitted into the housing, a cammed face on the extension, a latch mounted in the housing, a cammed face on the latch in cooperative relationship with the cammed face of the extension, means for normally impelling the latch into door locking position, said means including a second spring, an integral extension on the latch for supporting said spring, means for retaining the latch in the housing, a third spring projecting from the rear end of the housing, a plate on a shelf behind the door having a notch therein to receive the latch, a downward extension of said plate against which said last named spring is adapted to operate, the said third spring being associated with the door through the downward extension of the said plate for opening the door when the latch is released.

2,648,562
**GRAB**
**Walter J. Olson, Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware**
**Application January 26, 1949, Serial No. 72,817**
**3 Claims. (Cl. 294—88)**

1. A grab of the type adapted to supportingly engage articles of work to be transported, said grab comprising a supporting frame, a plurality of elongated guide arms suspended from said frame in spaced relation to each other, a plurality of grappling arms pivotally mounted on said guide arms in depending relation to said frame, each of said grappling arms being

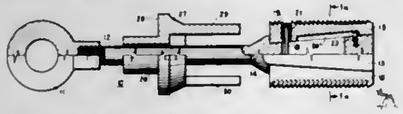
mounted on a respective pair of said guide arms, and said grappling arms being pivotable on said guide arms toward and away from each other into and out of work-engaging position, and means mounted on said frame and connected to said grappling arms for moving the latter into



and out of said work-engaging position, said grappling arms being adapted when in work-engaging position to support an article of work in engagement with one end portion of said guide arms to thereby clamp said work between said guide arms and said grappling arms.

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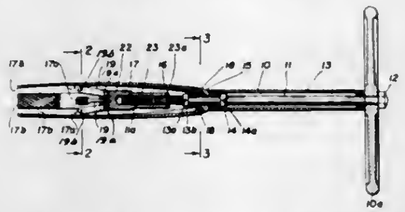
**2,648,563**
**TUBE PULLER**
**Garland W. Hall, Port Neches, Tex., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio**
**Application January 7, 1948, Serial No. 831**
**4 Claims. (Cl. 294—96)**



4. A hollow conduit pulling device which comprises an elongated structural body having a shank portion, a cams supporting portion mounted on one end of the shank portion integral and coaxial therewith and a means affixed to the other end of the shank portion for applying a coaxial external force thereto, a pair of longitudinally and diametrically mounted wedge-shaped cams affixed integrally to and projecting laterally from the said supporting portion, the operating faces of said cams being divergently inclined from the said shank portion, a coregistering, longitudinally symmetrical transverse slot disposed in said cams supporting portion and said cams, said slot terminating at a point short of the terminal extremity of said cams and said cams supporting portion, a stud disposed in the face of each of said cams in longitudinal alignment with said slot and intermediate the terminal extremity of said cams and terminal extremity of said slot adjacent thereto, a pair of wedge-shaped cam follower jaws slidably mounted on said cams and cooperating with said cams to engage frictionally the inner wall of a hollow conduit, said jaws being provided with longitudinal grooves in their respective cam following faces which respectively register with said studs, a link pin extending transversely through said slot and terminating within the bodies of said jaws, resilient means mounted on the terminal ends of said link pin to retain said cam follower jaws in coextensive engagement with the operating faces of said wedge-shaped cams, a jaw positioning and centering element comprising a frustum-shaped base member having a minimum diameter which permits the insertion of the smaller diameter end of the base member into a hollow conduit to be pulled and having a maximum diameter which prevents the larger diameter end of said base member from being inserted into said conduit, a pair of rigid, spaced probes independent of said jaws diametrically mounted on and projecting from the smaller diameter face of said base member parallel with the axis of the said shank portion toward said cam follower jaws, said probes being aligned on the said smaller face to register with and position said jaws within said conduit in perpendicular alignment with the longitudinal axis thereof.

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**2,648,564**
**BROKEN AXLE PULLER**
**John Tarapacki, Bronx, N. Y.**
**Application May 2, 1950, Serial No. 159,499**
**4 Claims. (Cl. 294—115)**



1. In a wheel axle puller tool comprising a casing, handle means at one end thereof, a shaft connected to said handle means, said shaft contained within said casing, said casing having an enlarged section at the lower end thereof, three or more gripping jaws pivotally attached to said enlarged section of said casing, said shaft having a threaded portion at the lower end thereof, a housing situated between said jaws below said shaft, and below the pivot points of said jaws upon said enlarged lower section of said casing, said threaded portion of said shaft rotatable within a threaded aperture in said housing, linkage means interjacent with said multiple gripping jaws and the lower portion of said housing and pivotally connected respectively with each jaw of said multiple jaws and the outer portion of said housing; and collar securing means attached to said shaft to hold said shaft within a restricted reciprocal movement upon the rotation of said shaft by said handle means in either clock-wise or counter-clockwise direction.

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**2,648,565**
**BABY COACH COVER**
**Bernardine C. Kennedy and Joseph F. Kennedy, Philadelphia, Pa.**
**Application October 10, 1950, Serial No. 189,454**
**2 Claims. (Cl. 296—78)**

1. The combination of a coach cover formed of flexible transparent material generally shaped to conform to the contour of an average coach, in combination with a tinted semi-transparent visor flap, having the central portion of one of its edges secured along one edge as a hinge to said cover, and having oppositely directed, freely extending portions that project downwardly upon the laterally opposite sides of said cover and a central portion that extends downwardly across the central portion of said cover, and means to detachably secure the oppositely directed and central portions of said visor flap in operative position to

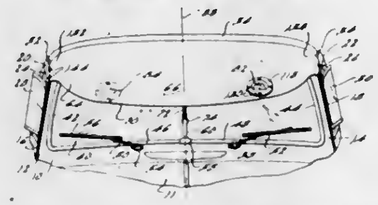


shield the occupant of the coach from the sun's rays, and in another inoperative position to permit full view of the coach's occupant from the outside of said cover.



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**2,648,566**
**VISOR APPARATUS**
**Henry H. Zeder, Pleasant Ridge, John B. Dickson, Highland Park, and Elmer G. Zeeb, Grosse Pointe Woods, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware**
**Application September 29, 1949, Serial No. 118,632**
**5 Claims. (Cl. 296—95)**

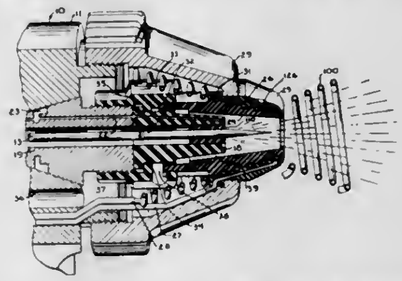


1. For use with an operator-operated automotive vehicle characterized by a windshield having at least an upper part, and molding structure thereadjacent: an exterior light shade comprising the combination of an elongated body portion tending to obstruct visibility and being provided with an aperture in the line of vision of the operator, supporting portions for said body portion for supporting the same adjacent said upper part of the windshield, and a concavo-concave untinted plastic lens part having an upper thickened portion due to the double concavity thereof and having the double curvature discontinued along a lower edge through the generally thinner portions due to double curvature, thereby tending to refract light substantially only upwardly, said plastic lens part being detachably carried by the body portion in registry with said aperture to bring into view of the operator the field of vision beyond the said obstructed upper part of the windshield and at the same time to prevent rays of light of undiminished intensity from striking the eye of the operator.

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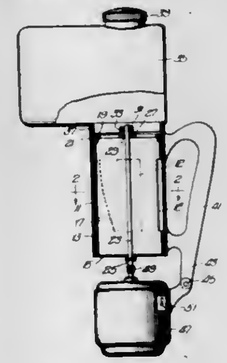
**2,648,567**
**METALLIZING GUN**
**Joseph B. Brennan, Bratenahl, Ohio**
**Application June 8, 1948, Serial No. 31,690**
**7 Claims. (Cl. 299—28.8)**

1. In metallizing apparatus, a device having a discharge end, an induction coil associated with said device adjacent the discharge end thereof, said induction coil having high frequency energy supplied thereto, and a rod receiving member positioned axially of said coil for receiving and accurately positioning a rod adjacent said discharge end, a rod in the device being advanced through said coil, said coil being conical in shape and tapering in toward the rod toward the discharge end of the device.



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**2,648,568**
**CENTRIFUGAL PAINT SPRAYER**
**Benjamin L. Sommer, Peoria, Ill.**
**Application October 24, 1951, Serial No. 252,957**
**3 Claims. (Cl. 299—63)**



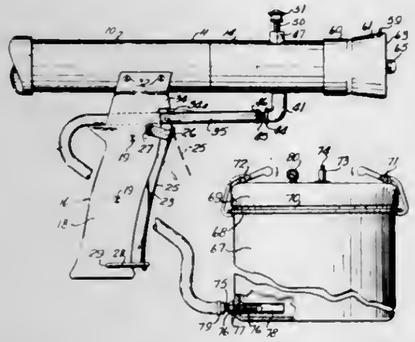
1. In centrifugal sprayer, an outer fixed element with a discharge opening therein, an intermediate rotating element, said rotating element having a feed slot formed therein, the feed slot being adapted to be aligned with the discharge opening in certain rotary positions of the rotating element, and an inner supply element with a supply opening therein, the supply opening being out of alignment with the discharge element and adapted to be aligned with the feed slot in certain rotary positions of the rotating element.

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**2,648,569**
**LIQUID SPRAYER**
**Edwin W. Vose, Orange, N. J., assignor to Spray Process Co. Inc., a corporation of New York**
**Application June 24, 1947, Serial No. 756,734**
**4 Claims. (Cl. 299—86)**

1. In a liquid sprayer, a straight air tube adapted to be connected to a source of air having a low pressure of substantial volume, a spray nozzle in said tube adjacent to the discharge end thereof and having a liquid connection extending through the wall of said tube, a handle secured to said tube and having a passage there-

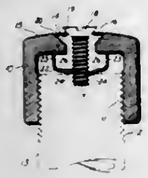
through substantially parallel to said tube, said handle having a boss portion extending beyond said passage in the direction of said spray nozzle. a flexible conduit extending from a source of liquid under pressure and via said passage to said liquid connection, a lever having secured



thereto a bifurcated yoke pivotally connected to said handle, and spring means for normally urging said lever in direction away from said handle, thereby causing the end of said lever to pinch said flexible conduit against said boss and thereby prevent said liquid from being delivered to said spray nozzle.

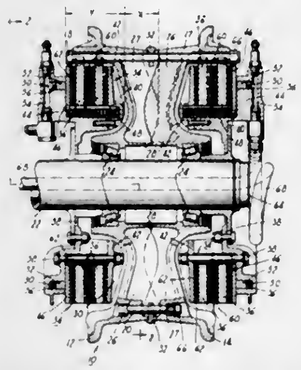
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**2,648,570**
**SPRINKLER HEAD**
**Michael A. Valen, Chula Vista, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California**
**Application May 26, 1951, Serial No. 228,422**
**1 Claim. (Cl. 299—121)**



A sprinkler head adapted to form liquid issuing from a vertical pipe, having a thread on its upper end, into a spray distributed substantially uniformly in all directions around the pipe, said head consisting of a hollow pipe cap having at one end a solid wall and at its opposite end an internal thread adapted for threaded engagement with said pipe thread, said end wall being provided with a discharge opening having an outwardly tapered marginal wall; a unitary screw passing through said discharge opening and having a frusto-conical head with a peripheral surface substantially parallel to and closely adjacent said marginal wall; a thin circular washer having its outer edge continully seated against said marginal wall and having spaced apart points on its inner edge seated against the head of said screw; and a nut having its lower end in threaded engagement with said screw and its upper end in engagement with said solid cap wall, said tapered marginal wall and washer centering said screw head in the discharge opening in response to the tightening of said nut; said nut having one or more openings adapted to pass liquid from said pipe into said discharge opening.

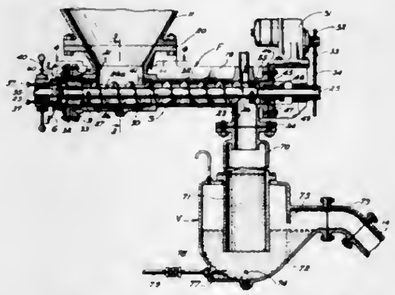
**2,648,571**
**AIRPLANE WHEEL**
**Irving F. Chapin, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application July 26, 1949, Serial No. 106,941**
**7 Claims. (Cl. 301—64)**



1. A wheel having a pair of outwardly facing brake cavities disposed radially inwardly from its outer edge comprising a pair of allochiral wheel sections, each of said sections having an antifriction bearing for supporting it on an axle and a half tire rim on its outer periphery which is provided with an inner edge, a plurality of circumferentially spaced substantially radial strengthening ribs of substantially rectangular cross-section for each wheel section, the wide dimension of each of said ribs lying in a plane parallel to the axis of said wheel, said ribs being curved around the aforementioned brake cavities, said wheel sections being secured together in such relation that the ribs of one section will lie between the ribs of the other section, an annular rim locating member receiving the inner edges of said rims, and a plurality of wheel section fastening members penetrating said rim locating member and the outer periphery of said wheel at circumferentially spaced points.

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**2,648,572**
**FLY ASH FEEDER**
**Thorleif Thorsten, Pittsburgh, Pa.; Marie E. Thorsten, executrix of said Thorleif Thorsten, deceased**
**Application September 11, 1947, Serial No. 773,383**
**16 Claims. (Cl. 302—15)**

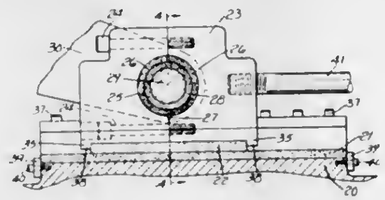


1. In a system for separation and disposal of gas entrained dust, the combination of a dust collecting hopper normally maintained under subatmospheric pressure to receive dust separated in said system, dust disposal means including a positively acting conveyor having its inlet connected to the outlet of said hopper, a rotatable gate surrounding the conveyor at the outlet of the hopper and having an opening for communication of dust between the hopper and inlet of the conveyor and a fluid operated evacuator having a bell at its inlet connected to the outlet of the conveyor normally containing a column of water for receiving the dust transferred from the hopper by the conveyor, and forming a gas seal for said dust disposal means, a body of water in the bottom of the evacuator outside of the bell and an opening in the evacuator to subject the body of water to atmospheric pressure, and said conveyor providing a further seal between the evacuator and the hopper to protect the evacuator against air surges caused by movement of large masses of material in the hopper.



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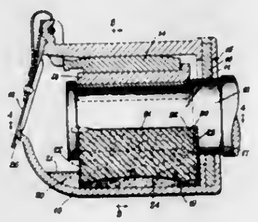
**2,648,573**
**BEARING COMBINATION**
**William Maxwell Wheildon, Jr., Framingham, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts**
**Application March 24, 1950, Serial No. 151,581**
**3 Claims. (Cl. 308—3)**



1. A bearing combination consisting of two elements, one of said elements being a massive piece of crystalline aluminum oxide 97% pure composed of discrete granules of said aluminum oxide and having a ground bearing surface, and the other of said elements being a molded piece of boron carbide whose composition is 98% total boron and carbon and ranges between the empirical formulae $B_{3.85}C$ and $B_{5.20}C$ said boron carbide element having a ground bearing surface.

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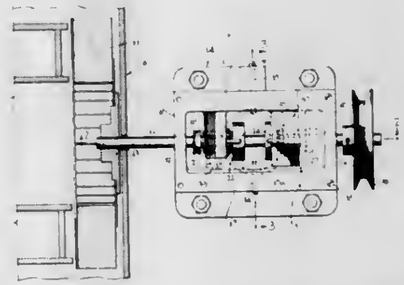
**2,648,574**
**PACKING RETAINER FOR JOURNAL BOXES**
**John D. Herr, Minerva, Ohio**
**Application February 28, 1952, Serial No. 273,963**
**10 Claims. (Cl. 308—89)**



1. A packing retainer for journal boxes comprising flat, transversely disposed front and rear arcuate members to be arranged within the journal box near the opposite ends of the journal for holding packing introduced into the journal box against horizontal displacement, a central longitudinal member connecting the lower portions of the arcuate members, horizontal non-abrasive members connected to the upper ends of the rear arcuate member adapted for arrangement within the journal box on opposite sides of the journal for holding packing against vertical displacement and having detachable connection with the upper ends of the front arcuate member, the horizontal members being adapted for preventing vertical displacement of the packing and the arcuate members being adapted for preventing horizontal displacement of the packing.

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**2,648,575**
**SHAFT BEARING**
**William S. Anderson, Williamsport, Pa., assignor of one-half to James E. Axeman, Williamsport, Pa.**
**Application December 13, 1949, Serial No. 132,695**
**9 Claims. (Cl. 308—127)**



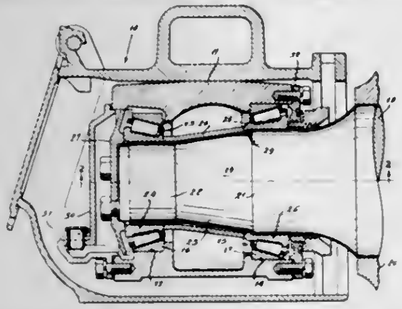
1. A bearing assembly comprising in combination, a shaft, a bearing housing, spaced bearing supports and bearings for said shaft within said housing and spaced from the ends thereof, oil slinger disks secured to said shaft between said supports and acting therewith to form end thrust bearings for the shaft, sloping drip pins secured above said disks and shaft bearings for catching oil from the disks and feeding it to said shaft bearings, small grooved oil slinger disks on said shaft outside said supports for throwing out oil creeping along the shaft, and a slope-sided splash shield resting on said supports and covering all of said slinger disks, said supports having drain grooves beneath said shield, said shield terminating short of the ends of said housing, the ends of said housing being open, and said supports having openings beneath said shield.

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**2,648,576**
**RAILWAY CAR AXLE BEARING**
**Oscar J. Horger, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio**
**Application August 5, 1950, Serial No. 177,821**
**7 Claims. (Cl. 308—180)**

1. A car axle bearing assembly including a bearing housing, innermost and outermost roller bearings each having inner and outer roller supporting elements, said bearings being seated in said housing, an axle journal projecting into said housing and formed with axially spaced inner and outer zones for engagement by the inner members of the respective bearings, said axle journal having its inner bearing zone larger than its outer bearing zone such that the axle portion between said inner and outer zones is gener-

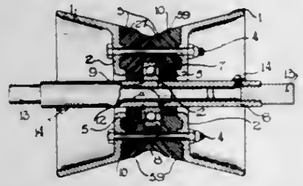
ally tapering, and an axially projecting extension on the inner element of said innermost bearing



having a member engaging the tapering surface of said axle journal.

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**2,648,577**
**MOUNTING OF BALL BEARING**
**Thomas Watt, Berea, Johannesburg, Transvaal, Union of South Africa**
**Application November 23, 1948, Serial No. 61,664**
**In Great Britain November 25, 1947**
**10 Claims. (Cl. 308—184)**

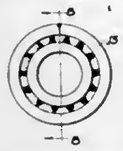


1. An improved self-aligning bearing assembly for a rotating member such as a pulley, roller, sheave and the like consisting of a boss and a peripheral working surface, said boss comprising an assembly consisting of a single antifriction bearing having an outer race, a bushing of a resilient material having an annular recess, said outer race being inserted in and substantially enclosed by said annular recess, said bushing being split into two half parts and the said parts being arranged to be clamped together in an axial direction, rigid clamping members clamping said bushing parts therebetween said bushing parts resiliently nipping and securing the outer race of the bearing therebetween, said bushing parts forming a resilient core piece separating the clamping members from one another and preventing direct contact therebetween and wherein connection between said boss assembly and the outer peripheral working surface of the rotating member is made through the said clamping members.

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**2,648,578**
**BEARING AND METHOD OF MAKING SAME**
**Frank H. Stearns, Meriden, and Arthur J. Thibault, Enfield, N. H., assignors to Split Ballbearing Corporation, Lebanon, N. H., a corporation of New Hampshire**
**Application April 2, 1949, Serial No. 85,074**
**5 Claims. (Cl. 308—196)**

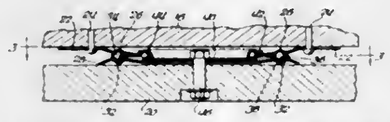
4. A ball bearing structure comprising continuous circular concentrically disposed inner and outer metal race rings having complementary annular raceway grooves on their adjacent surfaces and a plurality of spherical bearing balls disposed between said rings in rolling engagement with the respective grooves thereof, the said outer ring being fractured lengthwise of its longitudinal axis at one point only providing complementary mating ends and being hardened prior to fracture so that its fractured ends are held against separation in intimate interlocking mating abutment with each other by the inherent resilience of the hardened metal, said outer ring, independent of engagement therewith of said bearing balls, constituting a circular unitary one-piece undeformed ring of final operating dimensions having a circular ball engaging raceway groove of smooth continuous uninterrupted surface when the fractured ends of such ring are in abutment, whereby a substantially full complement of bearing balls may be inserted between the race rings by separation of the mating ends of the outer ring.



5. The method of making an anti-friction bearing which comprises machining to circular form an outer metal race ring having at least one internal annular ball receiving raceway groove of smooth uninterrupted surface, forming a groove in said ring across the outer surface thereof substantially parallel to the ring axis, hardening said ring, fracturing said ring in a substantially radial plane at the point of said outer surface groove only by bending said ring outwardly at a point substantially opposite said outer surface groove therein while supporting against substantial inward bending substantially all of the inner surface of said ring except that adjacent the point of such bending, spreading apart the fractured ends of said outer race ring within the elastic limit of the ring, assembling within the spread outer ring a plurality of bearing balls and an inner race ring having at least one external annular ball receiving raceway groove, and finally permitting the expanded outer race ring to contract so that its fractured ends move back into mating abutment due to the resilience of the hardened ring forming metal.

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**2,648,579**
**SWIVEL**
**Louis R. Slyter and Trebor C. Maule, Tacoma, Wash., assignors to George W. Slyter & Sons, Inc., Tacoma, Wash., a corporation of Washington**
**Application March 26, 1951, Serial No. 217,522**
**6 Claims. (Cl. 308—227)**



1. A swivel for interconnecting two relatively rotatable members comprising a centrally perforated first plate attachable to one of the members, a centrally perforated second plate attachable to the other of the members, the perforation in the first plate being of greater diameter than the perforation in the second plate, a centrally dished plate adapted to nest within the perforation in the first plate, said centrally dished plate having a peripheral flange adapted to overlie the inner edge of the first plate, ball bearing means interposed between the first and second plates, second ball bearing means interposed between the second plate and the peripheral flange of the dish plate for engagement by the inner peripheral edge of the first plate, and means for attaching the centrally dished plate to the said second plate.



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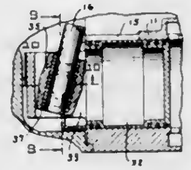
**2,648,580**
**ALUMINUM BASE BEARING**
**Jean A. Lignian, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application November 26, 1947, Serial No. 788,221**
**3 Claims. (Cl. 308—237)**



1. A bearing for heavy duty work, comprising in combination; a base metal having good frictional characteristics and taken from the class consisting of aluminum and aluminum alloys and having a roughened surface constituting minute grooves running transversely to the direction of rotation of the bearing, said grooves having a depth of between .0002'' and .001'' and being spaced radially at distances not greater than .010'' from one another, and a layer of soft bearing metal overlaying said roughened surface and comprising a codeposited layer taken from the class consisting essentially of lead, tin, antimony and alloys thereof, said layer having a thickness within the range of a flash coating to .001'' and having an undulating surface approximating and of less magnitude than the undulations of the grooved surface.

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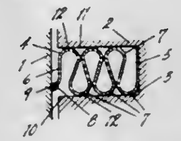
**2,648,581**
**MOTION TRANSMITTING CONNECTION**
**George F. Karow, Saginaw, Mich.**
**Application October 21, 1947, Serial No. 781,188**
**6 Claims. (Cl. 309—1)**



1. A device comprising a cylinder having an opening in one side wall, a piston slidable in the cylinder and having head and skirt portions, an arm having one end portion extending into the cylinder through said opening, a boss on the skirt end of the piston having a slot for receiving the end of the arm and having semi-circular recesses at opposite sides of the slot, a sleeve located in the slot in a position to slidably receive the end aforesaid of the arm, axially aligned trunnions extending outwardly from opposite sides of the sleeve and seated in the recesses formed in said boss, and a cap detachably secured to the boss and having semi-circular recesses cooperating with the recesses in said boss to provide bearings for said trunnions.

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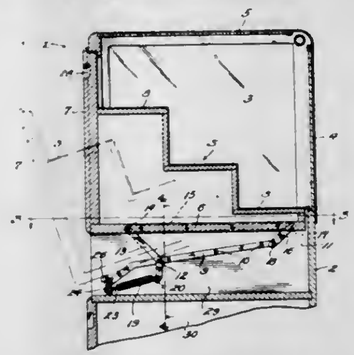
**2,648,582**
**PISTON RING**
**Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.**
**Application February 12, 1951, Serial No. 210,494**
**15 Claims. (Cl. 309—44)**



1. A split resilient piston ring element formed of an integral ductile sheet metal ribbon-like member bendably folded along lines extending longitudinally of the member and coiled to a ring-like shape to provide concentric inner and outer members and to provide loop-like members concentric to and intermediate said inner and outer members, the outer members being peripherally corrugated and constituting a cylinder wall engaging member and the inner member being disposed for seated engagement with the inner peripheral wall of the piston ring groove with the bights of the loop-like members in cooperating relation to the opposite side walls of the groove, said loop-like members being of a bellows-like formation and disposed to resiliently support the cylinder wall engaging member, the crowns of the corrugations of the cylinder wall engaging member being chrome plated.

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**2,648,583**
**TILTABLE MERCHANDISE SUPPORTING MEANS FOR STORE-EMPLOYED DISPLAY**
**Max K. Teach, Columbus, Ohio, assignor to The Columbus Show Case Company, Columbus, Ohio, a corporation of Ohio**
**Application November 19, 1949, Serial No. 128,321**
**4 Claims. (Cl. 312—136)**



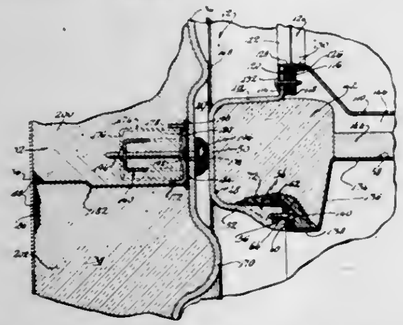
1. In a merchandise display case; a cabinet having an internal merchandise-receiving compartment; a tiltable merchandise-supporting shelf structure movably positioned in said compartment, said structure embodying a rear wall normally closing an access opening in the back of said compartment; supporting means providing for bodily tilting movement of said shelf structure from a first position, in which the shelf structure is disposed entirely within the confines of said compartment with its back wall closing said access opening, to a second position wherein the shelf structure is angularly tilted and its back wall spaced rearwardly from said cabinet

to provide for the removal of merchandise contained on said shelf structure through said opening; said supporting means including at each side of said shelf structure, and at the bottom thereof, a rearwardly disposed lever arm and a forwardly disposed link, the latter being shorter than said arm and arranged in upwardly diverging relationship therewith; means for pivotally joining said lever arm and link contiguous to their lower ends with said cabinet and their upper ends to said shelf structure; and counterbalancing spring means for said shelf structure connected with said cabinet and said lever arm, the normally upwardly divergent arrangement of said lever arms and links serving upon rearward tilting movement of said shelf structure to elevate the forward part thereof above the horizontal plane normally occupied thereby, and to lower correspondingly the rear part of said shelf structure below said plane, and with the back wall of said structure in angularly spaced relation from the vertical plane of the back of said cabinet to provide for the introduction or removal of articles into or from said display case.

2. A mounting appliance for the support of oscillatory bodies, comprising: an attachment bracket; a lever arm pivotally connected intermediately of its length to an intermediate portion of said bracket; a link having its lower end pivoted to one end of said bracket in spaced relation from said lever arm; means pivotally uniting the upper ends of said arm and link in substantially a common horizontal plane with an associated body and with the arm and link disposed relatively in upwardly diverging relation; said lever arm below its pivotal connection with said bracket including a crank extension; and a coil spring connected at one end with said extension and at its opposite end with said bracket, said spring being expanded upon oscillation of said body from its normal position of balance to exert a counterbalancing influence thereon.

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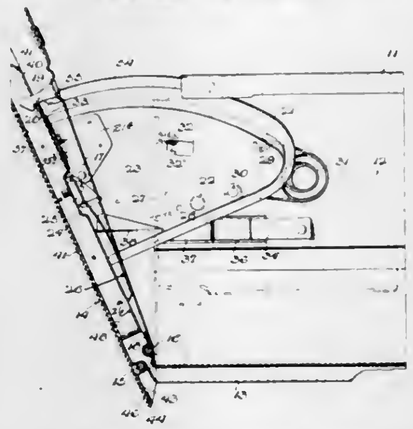
**2,648,584**
**REFRIGERATOR CABINET CONSTRUCTION**
**Evans T. Morton, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware**
**Application January 2, 1947, Serial No. 719,669**
**11 Claims. (Cl. 312—214)**



6. A refrigerator of the multi-temperature multi-compartment type, including in combination a cabinet containing a plurality of compartments adapted to be refrigerated, heat insulating material in said cabinet insulating said compartments from each other, a single door adapted to close said compartments and having an inner panel of a thermally nonconducting material, an outer shell, and heat insulating material filling the space within said door, sealing gasket means carried by said door to seal said compartments from the atmosphere and from each other when said door is closed, and sealing means within said door to divide the insulated space therein into the same number of dead air spaces as there are refrigerated compartments, said sealing and dividing means being positioned within said door opposite the insulating material between said compartments, whereby circulating air within said door is prevented from effecting heat transfer between said compartments.

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**2,648,585**
**DRAWER CONSTRUCTION**
**Clarence W. Straubel, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a corporation of Ohio**
**Application February 2, 1950, Serial No. 141,965**
**5 Claims. (Cl. 312—303)**

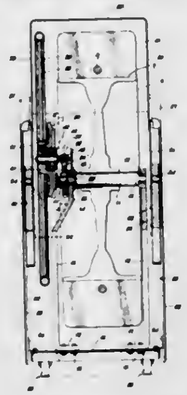


5. In combination, a filing cabinet provided on one side thereof with a keeper for a drawer latch, a drawer slidable in said cabinet, a latch on one side of the drawer for engaging said keeper to hold the drawer closed, a drawer front swingable between closed and open positions relative to the drawer, said latch being of leaf spring form and having a normal bias such that it assumes a position in which it is ineffective to restrain opening or closing movements of the drawer when the drawer front is open, a plate secured to the side of the drawer opposite the latch, a projection on the plate for engagement with a related side portion of the cabinet when the drawer is closed to urge the side of the drawer having a latch toward its related side portion of the cabinet, and means carried by the drawer front and operable by closing of the drawer front to move said latch to a position in which it engages behind said keeper when the drawer is closed and thus holds the drawer closed.

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**2,648,586**
**ROTARY CARD INDEX DRIVE MECHANISM**
**Herbert C. Behrens, Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio**
**Application October 20, 1948, Serial No. 55,583**
**6 Claims. (Cl. 312—305)**

6. In a rotary card index including a housing, a stand within the housing, a rotatable drum having a shaft journaled in the stand; said stand including a support member at one side of the drum and offset inwardly of the drum shaft for engaging the shaft at a point spaced inwardly from one lateral edge of the drum, driving mechanism for rotating the drum including a worm gear on the projecting end of said shaft, a pair of laterally spaced mounting bars secured on said offset support member inwardly of the lateral edge of the drum and projecting outwardly therefrom, a worm shaft journaled in said mounting bars and extending transversely above said worm gear, a worm on said worm shaft meshing with said worm gear, a bevel pinion on said worm shaft, a transverse web plate connecting the projecting ends of said mounting bars, a bevel gear journaled on said web plate between said mounting bars on an axis offset laterally of said drum shaft and meshing with said pinion, and a hand wheel mounted coaxially on said bevel gear and located within the housing alongside the drum.



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**2,648,587**
**VERTICALLY SLIDING DOOR APPARATUS**
**Charles J. Lane, Garden City, N. Y.**
**Application July 24, 1951, Serial No. 238,206**
**5 Claims. (Cl. 312—306)**

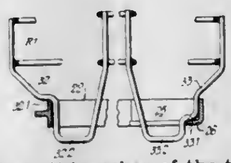


2. A vertically sliding door apparatus for closing an opening in a compartment, said opening being defined by the front edges of the top, sides, and floor of the compartment, the front edges of the sides of the compartment extending beyond the front edges of the top and floor, said apparatus comprising vertical keyways formed in the inner faces of the sides adjacent the front edges of the sides, said keyways being substantially parallel and having enlarged inner portions with lips extending over the inner portions on the faces of the sides to define narrow vertical slots, the lip on each side which is remote from the front edge of the side of each keyway being formed with an offset slot downwardly inclined away from said front edge, said offset slot being adjacent the top of the compartment, abutments closing the slots at the ends thereof adjacent the floor of the compartment, a door of sufficient vertical extent to cover the front edges of the top and floor of the compartment and of sufficient horizontal extent so that the edges of the door are received between the inner faces of the sides of the compartment, coaxial pins extending from the sides of the door adjacent its top, said pins being of a size to be received in the slots and extending into the inner portions of the keyways, the end of each of the pins in the inner portions of the keyways being turned at an angle to the axis of the pins to prevent removal of the pins from the slots, and a handle provided on the outer face of the door so that the door may be moved vertically along the slots and may be moved to close the compartment opening, by moving the door vertically upward so that the pins move along the vertical slots to the offset slots and are permitted to move into the offset slots for maintaining the door in a closed position over compartment opening.

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**2,648,588**
**DISHWASHING MACHINE**
**James G. Ruspino, Chicago, Ill., assignor to General Electric Company, a corporation of New York**
**Application May 31, 1952, Serial No. 290,984**
**10 Claims. (Cl. 312—308)**



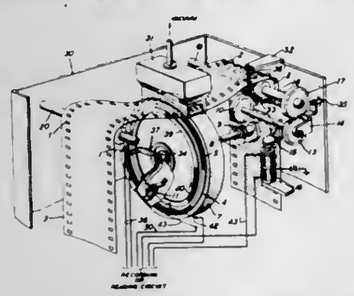


1. In a dishwasher of the type having a washing vat provided with a front opening and a lower rack supported in said vat to receive articles to be washed, said lower rack being movable through said front opening for loading or unloading, the improvement comprising guide rails secured in horizontally aligned relation on opposite sides of said vat above said lower rack, said guide rails commencing adjacent said front opening and extending toward the rear of said vat, roller means at the respective guide rails and movable therealong toward or away from said front opening, a frame member carried by said roller means, said frame member having a first support wall structure at one end thereof, a second support wall structure at the opposite end thereof, said wall structures being at different horizontal levels, and an article-receiving rack arranged to be sup-

ported by said frame in either of two horizontal angle relationships therewith, said rack having structural elements engageable with said wall structures to establish one vertical space relation between said upper and said lower rack and engageable with said wall structures upon rotation of said rack to its second angular relation to position said upper rack at a different vertical relationship with respect to said lower rack.

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**2,648,589**
**MAGNETIC RECORDER**
**Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application July 19, 1949, Serial No. 105,542**
**5 Claims. (Cl. 346—74)**

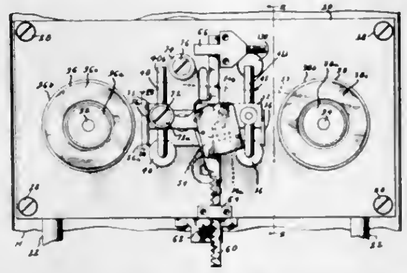


1. Apparatus for moving a magnetic body successively across a plurality of tracks on a magnetic medium, comprising in combination with said medium a movable support therefor, rotating means mounting thereupon a magnetic body, a variable pitch worm, means permanently connected with said movable support and engageable with said worm, and means operative only at times to produce an engagement of said last-mentioned means with said worm, whereby unidirectional variable motion is imparted by said last-mentioned means to said movable support for advancing said medium one track.

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**2,648,590**
**MAGNETIC RECORDER**
**Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois**
**Application December 6, 1947, Serial No. 790,193**
**14 Claims. (Cl. 346—74)**

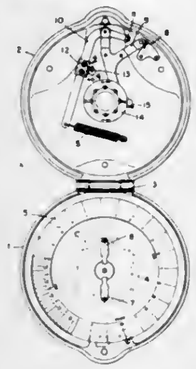
1. The combination in a magnetic recorder of a pair of spaced spool-receiving hubs to engage spools between which a lengthy record medium extends; a first wheel disposed between said hubs and spaced from said medium; elements including a carriage mounted for shifting movement toward and away from said medium as it extends between said spools; a second wheel mounted on said carriage to engage said medium and urge said medium against said first wheel when said carriage is positioned close to said medium; a head mounted on said carriage to receive said



medium when said second wheel bears thereagainst, and means to rotate one of said wheels to impart velocity to said medium.

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**2,648,591**
**ELECTRICALLY OPERATED RECORDER**
**Kenneth A. Cool, Cleveland, James M. Hush, Dayton, Walter Ernst, Mount Gilead, and David E. Bench, Dayton, Ohio, assignors to The Service Recorder Company, Cleveland, Ohio, a corporation of Ohio**
**Application March 28, 1947, Serial No. 737,944**
**3 Claims. (Cl. 346—123)**



1. In a device for recording periods of electric current flow in a load circuit, which device comprises a housing, clockwork for uniformly rotating a recording disc and a stylus adapted to bear against such disc; a rotary electric motor in such housing, an eccentric driven by said motor operative to reciprocate such stylus substantially radially of such disc, a transformer arranged and disposed to be responsive to the current flowing in such load circuit, and a relay connected in the secondary circuit of said transformer operative in actuated position continuously to energize said motor, whereby the motor will be thus energized during the periods of load current flow producing relay actuation.

# CHEMICAL

**2,648,592**
**REMOVING SALTS FROM POLY-ACRYLONITRILE**
**George W. Stanton, Walnut Creek, and Theodore B. Lefferdink, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
**No Drawing. Application May 28, 1951, Serial No. 228,759**
**3 Claims. (Cl. 8—137.5)**

3. In a method for making shaped articles by coagulation of an aqueous polyvalent metal salt-containing saline solution of a polymer containing at least 85 per cent acrylonitrile in the polymer molecule, the improvement which consists in immersing the article, before it has been dried, in an aqueous solution of a water-soluble alkali metal salt of ethylene diamine tetraacetic acid as a sequestering agent for the polyvalent metal ions in the salt contained in the coagulated article, until the salt content is reduced to a negligible value, and then drying the article.

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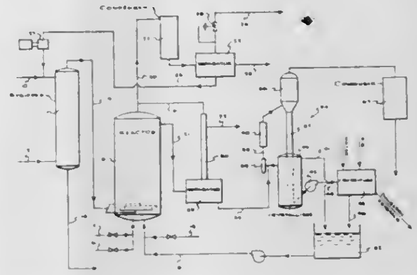
**2,648,593**
**REMOVING SALTS FROM POLY-ACRYLONITRILE**
**George W. Stanton, Walnut Creek, and Theodore B. Lefferdink, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
**No Drawing. Original application May 28, 1951, Serial No. 228,759. Divided and this application October 27, 1952, Serial No. 319,182**
**3 Claims. (Cl. 8—137.5)**

1. In a method for making shaped articles by coagulation of an aqueous polyvalent metal salt-containing saline solution of a polymer containing at least 85 per cent acrylonitrile in the polymer molecule, the improvement which consists in immersing the article, before it has been dried, in an aqueous solution of a water-soluble alkali metal salt of a polyphosphoric acid as a sequestering agent for the polyvalent metal ions in the salt contained in the coagulated article, until the salt content is reduced to a negligible value, and then drying the article.

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**2,648,594**
**MANUFACTURE OF AMMONIUM SULFATE FROM REFINERY WASTES**
**Dan A. H. Olson, Huntington Park, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**
**Application May 10, 1951, Serial No. 225,507**
**11 Claims. (Cl. 23—119)**

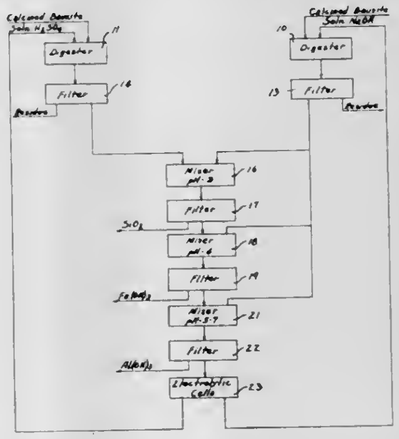
1. A method of manufacturing ammonium sulfate which includes: continuously introducing to a reaction zone ammonia, steam, and a material containing sulfuric acid, oil, and oil-soluble contaminants; withdrawing from said reaction zone a suspension of aqueous ammonium-sulfate solution and liquid oil, said liquid oil including the less volatile portion of said contaminants; withdrawing from said reaction zone steam with vapors of volatile contaminants, said withdrawal of steam being sufficient in amount to yield concentration of at least 35% ammonium sulfate by weight in said withdrawn aqueous solution; maintaining sufficient liquid water in said reaction zone to prevent crystallization of



ammonium sulfate therein; and separating said withdrawn aqueous solution from said liquid oil.

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**2,648,595**
**CYCLIC PROCESS FOR TREATING ALUMINOUS ORES**
**Absalom M. Kennedy, Tuscaloosa, Ala.**
**Application February 10, 1951, Serial No. 210,370**
**11 Claims. (Cl. 23—143)**




1. The method of producing alumina from aluminous ores containing iron and silicon comprising the steps of treating a portion of the ore with a solution of an alkali metal hydroxide, the proportion of the ore to the alkali being sufficient to convert the alumina content of the ore into an alkali metal aluminate, separating the insolubles of the mixture from the alkali aluminate extract solution, treating a second portion of the ore with a solution of sulphuric acid, the proportion of the ore to the acid being sufficient to convert the alumina content of the ore into aluminum sulphate, separating the insolubles of the mixture from the acid solution, adding to said

acid solution a sufficient quantity of said alkali aluminate extract solution to precipitate most of its silica content, separating said precipitate of silica from the acid solution, adding to said last mentioned acid solution a sufficient quantity of the alkali aluminate extract solution to precipitate the iron content of the combined solutions and an insufficient quantity of said alkali aluminate extract solution to precipitate any substantial amount of aluminum hydroxide, separating the iron precipitate from the acid solution, adding to the last mentioned acid solution a sufficient quantity of the alkali aluminate extract solution to precipitate the aluminum content thereof as aluminum hydroxide, and separating the aluminum hydroxide precipitate from the solution.

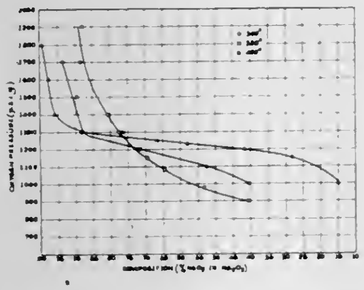
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**2,648,596**

## SODIUM SUPEROXIDE PRODUCTION

**William H. Schechter, Zelienople, Pa.**

**Application August 5, 1950, Serial No. 177,977**
**10 Claims. (Cl. 23—184)**



1. In a method of making sodium superoxide ($NaO_2$) the steps comprising heating at least one material of the group metallic sodium, sodium monoxide, and sodium peroxide in a closed container to a temperature of at least about 200° C. while supplying oxygen under a pressure of at least about 1500 p. s. i. and thereby producing said superoxide from said material, and recovering the oxidized product thus formed.

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**2,648,597**

## CHEMICAL PROCESS

**Morris L. Nielsen, Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application March 24, 1951, Serial No. 217,403**
**4 Claims. (Cl. 23—190)**

4. In a process for the improvement of the fire-retardant properties of the water-soluble, ammonia-insoluble reaction product of one mole of phosphorus oxychloride and at least five moles of anhydrous ammonia, which reaction product is obtained by the preliminary heating of the said reactants at a temperature below 110° C., followed by heat-treatment thereof at a temperature in the range of 110° C. to 150° C., the improvement which comprises contacting the said reaction product with a monocarboxylic acid having from 2 to 4 carbon atoms to extract therefrom the acid-soluble components, and thereafter removing such soluble components to obtain the insoluble portion as a material of improved fire-retardant qualities.

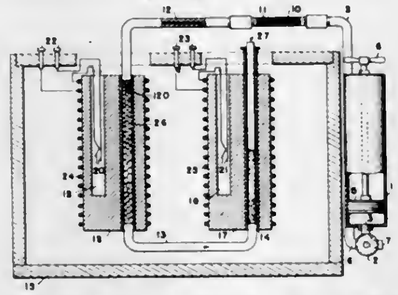
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**2,648,598**

## PROCESS FOR DETERMINATION OF ETHYLENE IN GASES

**Fred Stitt and Yoshio Tomimatsu, Berkeley, and Arnt H. Tjensvold, San Francisco, Calif., assignors to the United States of America as represented by the Secretary of Agriculture**

**Application June 27, 1950, Serial No. 170,672**
**3 Claims. (Cl. 23—232)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. The process of determining the concentration of ethylene in a gas which comprises passing the gas at a temperature from about 285° C. to about 300° C. over red mercuric oxide for a contact time of 2 to 25 seconds whereby a reaction occurs and mercury is released into the gas in proportion to the concentration of ethylene, passing the gaseous products of the reaction longitudinally along the surface of an elongated strip coated with elemental red selenium maintained at a temperature from about 120° C. to about 200° C. and ascertaining the concentration of ethylene by the length of blackening along the selenium strip.

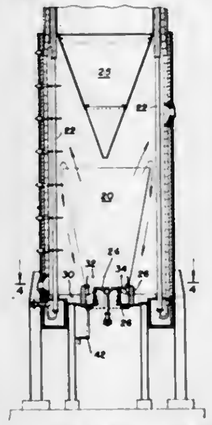
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**2,648,599**

## HEAT CONTROL IN VERTICAL FURNACE BY FLUE GAS RECIRCULATION

**John W. Throckmorton and John S. Wallis, New York, N. Y., assignors to Petro-Chem Process Company Incorporated, New York, N. Y., a corporation of Delaware**

**Application March 22, 1949, Serial No. 82,874**
**2 Claims. (Cl. 23—277)**



1. A vertical furnace comprising a radiant section having a hollow cylindrical bank of radiant heat absorbing tubes defining a vertical axis, a burner at the bottom of said radiant section for discharging combustion products upwardly along said axis, said radiant section having a floor at the bottom thereof, an open ended recirculating tube located with its axis vertical and with its lower end spaced above said floor and adjacent to said burner, and a recirculation damper located at the lower end of said recirculating tube, said damper comprising an annular band movably supported adjacent the lower end of said recirculating tube, said band having a width at least equal to the space between said floor and the lower end of said recirculating tube, and means for moving said band vertically to regulate the size of the recirculation opening at the lower end of said recirculating tube in order to control the amount of recirculation which takes place.



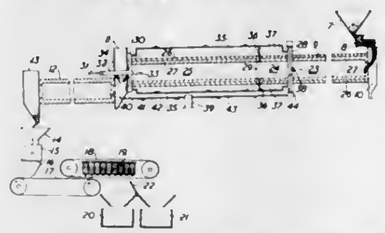
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**2,648,600**

## CONCENTRATION OF IRON ORE

**Lewis Reeve, Sheffield, England, assignor to The United Steel Companies, Limited, Sheffield, England, a British company**

**Application January 11, 1950, Serial No. 137,986**
**In Great Britain November 19, 1948**
**5 Claims. (Cl. 75—1)**



1. A process for the concentration of iron ore containing lime in the form of the carbonate in an amount of about 24% lime (calculated as CaO) in which the ore is first roasted in an oxidizing atmosphere at a temperature between about 900° C. and 1050° C. so as to cause the production of free lime from the lime content of the ore without causing the lime to combine with the iron, thereafter roasted in a reducing atmosphere at a lower temperature to convert the iron sesquioxide to ferroso-ferric oxide and maintained in a reducing atmosphere at least until its temperature has fallen to 700° C. and thereafter divided magnetically into a concentrate relatively enriched in percentage of iron and containing the greater part of the iron and tailings which contain a substantial proportion of free lime.

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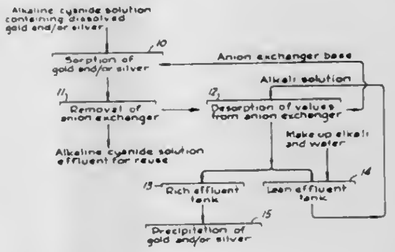
**2,648,601**

## PROCESS FOR THE RECOVERY OF PRECIOUS METAL VALUES

**Raymond E. Byler, Stanford University, and Robert C. Dunn, San Carlos, Calif., assignors to The Merrill Company, San Francisco, Calif., a corporation of California**

**Application July 16, 1948, Serial No. 39,034**
**2 Claims. (Cl. 75—105)**

1. In a process of recovering precious metal values from ore, the steps of dissolving said values by cyanidation; adjusting and maintaining the free hydroxyl ion concentration of the cyanide solution in a pH range between 8 to 11 after economic completion of the dissolution of said values while sorbing said dissolved values on a resinous polyamine anion exchanger in free base condition; separating said exchanger with the sorbed values from said solution; and desorbing said values from said separated exchanger in an alkaline solution different from said cyanide solution while maintaining the free hydroxyl ion concentration of said alkaline solution in pH range about 13 to 14.




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**2,648,602**

## HIGH STRENGTH STEEL FOR HIGH-TEMPERATURE SERVICE

**Peter Payson, New York, and Joe Gin-Young Chow, Long Island City, N. Y., assignors to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey**

**No Drawing. Application January 17, 1952, Serial No. 267,003**
**3 Claims. (Cl. 75—126)**

1. A forgeable and heat treatable alloy steel which as heat treated possesses high strength and good ductility at room temperature, and high stress-rupture properties at temperatures up to about 1100° F., said steel having substantially the following composition: 0.2 to 0.4% carbon; 0.5 to 1.5% manganese; 11 to 14% chromium; 0.2 to 0.7% vanadium; 1 to 2.5% tungsten; 1.5 to 4% molybdenum; from an effective amount to about 0.5% silicon; remainder iron.

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**2,648,603**

## SURFACING COMPOSITION AND METHOD

**Peter Jenin and Nicholas R. Jenin, Blue Island, Ill.**

**No Drawing. Application June 30, 1949, Serial No. 102,426**
**5 Claims. (Cl. 94—19)**

1. A surfacing composition comprising an intimate mixture of at least 50% by volume of clay, from at least 10% to about 45% by volume of porous, absorbent, stable, granular material of a particle size such that 100% passes a ¼-inch mesh screen, and a relatively small amount of diliquescent material.

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**2,648,604**

## PHOTOGRAPHIC DEVELOPER CONTAINING A PYRIDINIUM SALT AND PROCESS OF DEVELOPMENT

**Lawrence G. Welliver and Carl E. Johnson, Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application December 28, 1951, Serial No. 263,981**
**18 Claims. (Cl. 95—88)**

1. An alkaline photographic developer for silver halide emulsions comprising an aromatic silver halide developing agent and a pyridinium salt selected from the class consisting of those

corresponding to the following general formula:



wherein P represents the atoms necessary to complete a heterocyclic ring structure selected from the class consisting of pyridinium, picolinium, lutidinium, collidinium, parvolinium and alkoxy-substituted pyridinium radicals, R represents an aliphatic radical of not more than 5 carbon atoms, said radical selected from the group consisting of alkyl, chloroalkyl, bromoalkyl, hydroxyalkyl, carboxymethyl, carbalkoxymethyl and alkoxyalkyl, and X is an anion selected from the class consisting of chloride, bromide, thiocyanate, methosulfate and ethosulfate.

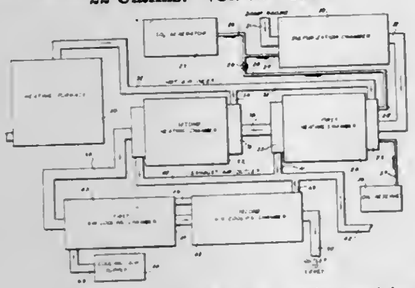
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**2,648,605**

**METHOD AND APPARATUS FOR TREATING RAISINS**

**Enrico Aliotti, Rhodes, Dodecanese, Greece, assignor to Aliotti and Gier, Kansas City, Mo., a copartnership**

**Application February 24, 1948, Serial No. 10,282**
**22 Claims. (Cl. 99—104)**



1. In a method of treating raisins, subjecting sun-dried unbleached raisins in a damp state to sulphur dioxide while keeping said raisins in a constant state of agitation.

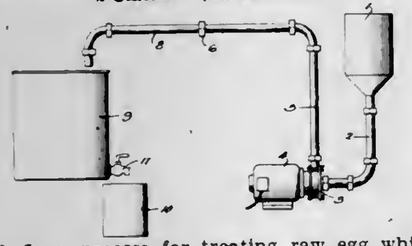
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**2,648,606**

**METHOD FOR DECREASING EGG WHITE WHIPPING TIME**

**William E. Lloyd, Homewood, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois**

**Application September 10, 1949, Serial No. 114,947**
**2 Claims. (Cl. 99—113)**



1. In a process for treating raw egg whites, the step of hashing the egg white material within a chamber filled with said material while simultaneously forcing said material from said chamber through an orifice having a diameter of from $\frac{1}{8}$ to $\frac{1}{5}$ inch to create a back pressure on the material in said chamber sufficient to make said hashing effective in decreasing the required length of time to whip said egg whites.

**2,648,607**

**PROTECTIVELY COATED EDIBLE CHEESE MORSELS AND METHOD OF PRODUCING SAME**

**Jacob Krusi, Thayne, Wyo.**

**No Drawing. Application February 19, 1951, Serial No. 211,803**
**6 Claims. (Cl. 99—117)**

1. An edible cheese product, comprising loose, discrete morsels of cheese, each morsel of which carries a superficial protective coating of milk solids normally present in whey, said morsels being characterized by brittleness and high resistance to the development of mold and rancidity.

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**2,648,608**

**STABILIZATION OF FATS AND OILS**

**Buell W. Beadle, China Lake, Calif., and Henry R. Kraybill, Chicago, Ill., assignors to A. W. Brickman, Victor Conquest, Frank J. Madden, Wrisley B. Oleson, and Emery T. Filbey, Chicago, Ill., trustees for American Meat Institute Foundation, Chicago, Ill., a corporation of Illinois**

**No Drawing. Application October 12, 1951, Serial No. 251,132**
**11 Claims. (Cl. 99—163)**

1. A method of stabilizing an animal or vegetable fat or oil which comprises adding thereto a small amount of an antioxidant composition, said composition comprising from 10 to 20 parts by weight of tertiary butylated hydroquinone monoalkyl ether wherein the alkyl group contains from 1 to 4 carbon atoms inclusive, from 2 to 5 parts by weight of propyl gallate and from 2 to 5 parts by weight of an acid material selected from the group consisting of citric acid, ascorbic acid, oxalic acid, phosphoric acid, ethyl acid phosphate and triethyl phosphate.

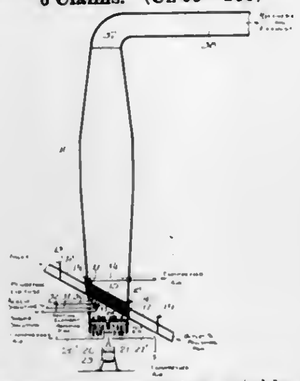
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**2,648,609**

**METHOD OF APPLYING COATINGS TO EDIBLE TABLETS OR THE LIKE**

**Dale E. Wurster, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin**

**Application January 21, 1949, Serial No. 71,997**
**6 Claims. (Cl. 99—166)**



1. The process of covering eatable tablets of the type of medicinal tablets, chewing gum, candy and nuts with a sugary coating which comprises: moving an air stream in a confined space upwardly past the eatable tablets with a force sufficient to suspend them continuously therein, and introducing the sugary coating material into said air stream prior to its contact with the eatable tablets.

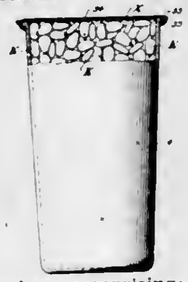


**2,648,610**

**PACKAGED POPCORN KERNELS AND POPPING OIL**

**Joseph T. Martin, Thomasville, Ga., assignor, by mesne assignments, to Rose Kist Foods, Inc., Thomasville, Ga., a corporation of Georgia**

**Application May 8, 1951, Serial No. 225,201**
**4 Claims. (Cl. 99—171)**



1. A food package comprising: a container; a mass of popcorn kernels in said container and substantially filling said container; and popping oil in said container filling the voids between said popcorn kernels, whereby the popcorn kernels and popping oil can be simultaneously poured from the container as a cohesive flowable mass.

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**2,648,611**

**ADDITION OF UREA TO VISCOSE**

**George Alvin Richter, Jr., Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application November 19, 1947, Serial No. 787,023**
**3 Claims. (Cl. 106—165)**

2. As a fiber-forming composition, a mixture of viscose with about 1 to 5% by weight of organic water-soluble material consisting of urea, the urea being the sole organic water-soluble material in the mixture, said composition having normal ageing characteristics.

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**2,648,612**

**SEALING COMPOSITION**

**Irven G. Cooper, Silver Spring, Md.**

**No Drawing. Application February 19, 1952, Serial No. 272,509**
**2 Claims. (Cl. 106—199)**

1. A plastic sealing composition consisting essentially of a mixture of paraffin, paraffin oil, wood flour, soap and borax, the composition having a plastic consistency, and wherein the ingredients have the following proportions:

(1) Paraffin, 13–19 parts by weight
(2) Paraffin oil, 5–7 parts by volume
(3) Wood flour, 4–10 parts by weight
(4) Soap and borax in equal amounts, not to exceed 1% of the composition by weight.

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**2,648,613**

**PROTECTION OF RUBBER SURFACES**

**Seaphes D. Shinkle, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**

**No Drawing. Application May 25, 1951, Serial No. 228,363**
**2 Claims. (Cl. 117—6)**

1. The method of temporarily protecting the surface of a vulcanized rubber article which normally is objectionably deficient in resistance to surface attack by ozone against such attack which comprises applying thereto a coating of a solution consisting essentially of an elastomer selected from the group consisting of polychloroprene, copolymers of from 55 to 85% combined aliphatic conjugated diolefin hydrocarbon and correspondingly from 45 to 15% combined acrylonitrile, copolymers of from 20 to 60% combined aliphatic conjugated diolefin hydrocarbon and correspondingly from 80 to 40% combined acrylate ester selected from the group consisting of alkyl and chloroalkyl acrylates, and copolymers of from 50 to 80% combined aliphatic conjugated diolefin hydrocarbon and correspondingly from 50 to 20% combined mono-vinyl pyridine, a soluble, fusible phenol-formaldehyde resin compatible with said elastomer, the amount of said resin being equal to from 5 to 100 parts per 100 parts of said elastomer, and a vinyl resin selected from the group consisting of polyvinyl chloride and copolymers of a major proportion of vinyl chloride and a minor proportion of a copolymerizable monomer, the amount of said vinyl resin being equal to from 2 to 5 times the weight of said elastomer, dissolved in a volatile organic solvent to a total solids level of from 5 to 30%, said solution being free from curing agents for said elastomer and curing agents for said phenol-formaldehyde resin, evaporating said solvent to form a thin, continuous, ozone-protective, tack-free, lustrous, mark-resistant, flexible film which is readily strippable from said surface, and subsequently stripping said film from said surface.

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**2,648,614**

**PRESSURE SENSITIVE ADHESIVE SHEET MATERIAL**

**John B. Martin, Camas, Wash., and Chester S. Funk, Hayward, Calif., assignors to Crown Zellerbach Corporation, Camas, Wash., a corporation of Nevada**

**No Drawing. Application October 27, 1950, Serial No. 192,596**
**11 Claims. (Cl. 117—68.5)**

1. The pressure sensitive adhesive sheet material comprising a flexible sheet backing, an adhesive coating comprising a normally tacky, pressure-sensitive vulcanized rubber adherently affixed to one side of said backing, and a release coating comprising the combination of chromium stearato chloride and hydroxyethyl cellulose employed in the relative proportions of from about 1 to about 3 parts by weight chromium stearato chloride for each 5 parts by weight hydroxyethyl cellulose, said release coating being adherently affixed to the other side of said backing.

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**2,648,615**

**METHOD OF FLAMEPROOFING CELLULOSIC WALLBOARD AND ARTICLE PRODUCED THEREBY**

**Harold C. O'Brien, Jr., Beaver, Pa.**

**No Drawing. Application May 24, 1949, Serial No. 95,159**
**14 Claims. (Cl. 117—71)**

7. A method of treating cellulosic materials comprising the steps of impregnating the cellulosic material with a substantially neutral aqueous solution of an ammonium compound which is solid at room temperatures but which liberates ammonia gas when heated to the combustion temperature of the cellulosic material and a borate which is fusible at the combustion temperature of the cellulosic material, substantially removing the moisture added by the aqueous im-

pregnating solution and coating the surface of the dried material with an organic sol of pyrobitumen substantially free of water-soluble inorganic contaminants.

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2,648,616

## MATERIAL FOR SHOE STIFFENERS

Earl H. G. Gauthier, Haverhill, Mass., assignor to Bixby Box Toe Co. Inc., Haverhill, Mass., a corporation of Massachusetts

No Drawing. Application October 20, 1950, Serial No. 191,333
2 Claims. (Cl. 117—140)

1. The material for shoe stiffeners which comprises a sheet of unfelted and unwoven textile fibers bound together by polyvinyl alcohol and containing a composition of which a major proportion is a resinous material selected from the group consisting of oxidized asphalt, oxidized rosin and plasticized styrene, said material being stiff but somewhat flexible at temperatures below 120° and limp at 180° F.

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2,648,617

## FILTER MEDIUM AND METHOD OF MAKING THE SAME

Norman D. Hanson, Bloomfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application September 2, 1948, Serial No. 47,550
8 Claims. (Cl. 117—155)

1. Filter medium capable of filtering sludge from lubricating oil, and characterized by flexibility and resistance to the action of water comprising a porous fibrous structure impregnated with a polyhydric alcohol ester of an aliphatic diene-monoacid having ethylenic bonds and one of these bonds in conjugation with the carbonyl group, said ester being in an insoluble condition and in amount retaining the porosity of the structure for a filtering action.

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2,648,618

## CLUTCH FACING AND METHOD OF MANUFACTURE

Henry J. Palumbo, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application August 31, 1948, Serial No. 47,015
5 Claims. (Cl. 154—81)



1. A flat vulcanized disc having high strength and wear resistant properties comprising a composite corrugated asbestos paper reinforcing strip disposed in convolute form with the paper and filled corrugation apertures extending throughout the body of the disc edgewise to the flat plane surfaces of said disc, said composite paper strip including a flat backing sheet and a corrugated sheet of thin asbestos paper adhered together as a laminate, a stiffening impregnant for the paper sheets, and a strength and durability imparting filler for the corrugation apertures, said filler comprising comminuted friction material embedded in a heat hardened binder.

3. The method of forming an annular friction disc adapted for use as a clutch facing which comprises, assembling flat and corrugated sheets of heat resisting asbestos paper impregnated with a stiffening and strength imparting binder in composite strips with the corrugations extending transversely thereof, spirally winding each strip in the form of a tubular element, forming a sandwich with a transverse section of one of said elements as a core between facing sheets of heat fusible hardenable binder incorporating friction imparting filler particles, subjecting said sandwich to heat to fuse the binder and compressing it in a direction forcing said fused and filled binder into the corrugation pores, and hardening the product to form a disc with the paper strips and binder filled corrugation pores extending perpendicularly to the wearing face of the clutch facing and exposed thereto.

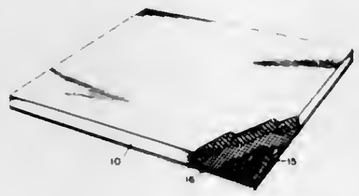
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2,648,619

## FABRIC COATED SPONGE RUBBER AND METHOD OF MAKING SAME

Sterling W. Alderfer, Akron, Ohio, assignor of three-tenths to Edward D. Andrews, Akron, Ohio

Application May 1, 1952, Serial No. 285,513
9 Claims. (Cl. 154—100)



8. In the method of making a sponge rubber product having a non-elastic composite fabric backing, the steps of depositing a mass of liquid rubber latex on a moving belt in front of a doctor bar spaced above the belt, passing a strip of non-elastic open mesh woven fabric under the doctor bar in contact with the latex causing penetration of the latex through the woven fabric, and then passing a strip of knitted textile fabric under a second doctor bar in contact with the upper surface of the woven fabric and the liquid latex penetrating therethrough.

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2,648,620

## STICKING TOGETHER RESIN-IMPREGNATED CELLULOSIC SHEETS

Edward Sidney Hole, London, England

No Drawing. Application January 5, 1951, Serial No. 204,694. In Great Britain January 31, 1950
10 Claims. (Cl. 154—138)

2. Process for sticking together sheets of absorbent cellulosic material impregnated with a thermosetting phenol-formaldehyde resin, consisting in applying to the dry surfaces of the impregnated sheets which are required to adhere while said resin is in a reactive condition, a moist metallic hydroxide of the class of aluminum oxide and zinc oxide and mixtures thereof gelatinised with water, pressing the sheets together and drying them slowly, thereby forming a composite laminated pack of sheets that can be handled conveniently and used for moulding and setting under heat and pressure.



2,648,621

## CHLORINATED n-ETHYL ACETANILIDE INSECTICIDE SPRAY COMPOSITION

Henry John Gerjovich and Michel Pijoan, Boulder, Colo., assignors to The Chemical Foundation, Incorporated, a corporation of New York

No Drawing. Application May 11, 1948, Serial No. 26,483
1 Claim. (Cl. 167—30)

An insect spray composition comprising essentially an insect spray base paraffinic hydrocarbon solvent containing a toxic amount of a mixture of mono, di and trichloro n-ethyl acetanilide.

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2,648,622

## PURIFYING INSULIN BY SEEDING WITH UNCLUMPED FIBRILS OF INSULIN

David F. Waugh, Watertown, Mass., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application November 29, 1950, Serial No. 198,237
5 Claims. (Cl. 167—75)

1. A method of obtaining insulin which consists in introducing into a solution containing insulin and foreign protein and having a low pH in the acid range a seeding material of unclumped insulin fibrils, maintaining the seeded solution for a time much shorter than that which would be required for complete precipitation of insulin from an unseeded solution at the temperature of the seeded solution, whereby no more than a minute amount of coagulation of foreign protein occurs and the insulin from the sollution is aggregated on the seeding material by elongation of the fibrils, and separating the aggregated insulin from the solution.

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2,648,623

## CATALYTIC DESULFURIZATION OF PETROLEUM HYDROCARBONS

Frederick William Bertram Porter and Roy Purdy Northcott, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation

Application April 1, 1950, Serial No. 153,339
In Great Britain April 8, 1949
4 Claims. (Cl. 196—28)

1. In a continuous process for the hydrocatalytic desulphurization of a sulphur and naphthene-containing hydrocarbon oil wherein the oil is contacted in a reaction zone at an elevated temperature and pressure in the presence of hydrogen with a dehydrogenation-hydrogenation catalyst which is immune to sulphur poisoning and combines activity for the dehydrogenation of naphthenes to aromatics with activity for the hydrogenation of organically combined sulphur in the oil to hydrogen sulphide, the method of operating the process so that it will be self-supporting with respect to the amount of hydrogen needed and produce product oil having, except for lowered sulphur content, properties and boiling range substantially the same as the feedstock, comprising the steps of passing the oil to be treated through said reaction zone and contacting the oil therein with said catalyst and with hydrogen derived solely from the oil, maintaining a selected temperature in said zone between about 650° F. to about 800° F. at which hydrogen is continuously evolved from said oil by dehydrogenation of naphthenes contained in the oil, for consumption in converting organically combined sulphur in the oil to hydrogen sulphide; allowing the pressure in said zone to rise to an equilibrium pressure at which the hydrogen evolved equals the hydrogen consumed, by separating a hydrogen-rich gaseous fraction from the products from the reaction zone, said fraction containing substantially the content of hydrogen as such in said products, and recycling said hydrogen-rich gaseous fraction to said reaction zone, the hydrogen of said fraction constituting the whole of the hydrogen supplied as such to said zone; and, recovering the desired product oil from the residue of said separating operation.

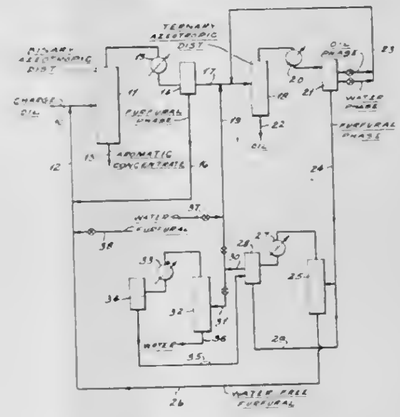
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2,648,624

## AZEOTROPIC DISTILLATION FOR RECOVERY OF AROMATIC FRACTIONS CONTAINING NAPHTHALENE

Howard V. Hess, Beacon, George B. Arnold, Glenham, and Louis Kovach, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application February 10, 1951, Serial No. 210,408
1 Claim. (Cl. 202—42)




The method of concentrating aromatic hydrocarbons including naphthalene from hydrocarbon stocks boiling within a range of 300–500° F. and containing non-aromatic hydrocarbons and aromatic hydrocarbons including naphthalene that comprises subjecting such hydrocarbon stock in the absence of steam to an azeotropic distillation with furfural in a binary azeotropic distillation zone, maintaining a temperature therein to distill overhead binary azeotropes of non-aromatic hydrocarbons and furfural, withdrawing as residue the resultant aromatic concentrate containing naphthalene, collecting the overhead distillate as a furfural-rich phase and a hydrocarbon-rich phase, returning the furfural-rich phase to the binary azeotropic distillation zone, subjecting the hydrocarbon-rich phase to azeotropic distillation with water in a ternary azeotropic distillation zone, maintaining a temperature therein to distill overhead ternary azeotropes of hydrocarbons, furfural and water, withdrawing oil as residue substantially free from furfural, collecting the overhead distillate as a hydrocarbon-rich phase, a water-rich phase and a furfural-rich phase, returning the hydrocarbon-rich and water-rich phases to the ternary azeotropic distillation zone, stripping any contained water from the furfural-rich phase and recycling the stripped furfural to the binary azeotropic distillation zone.

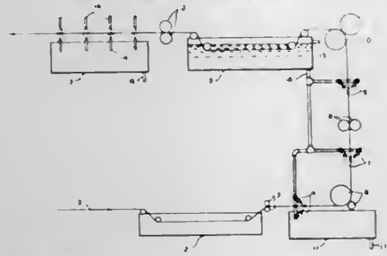
2,648,625

## METHOD OF ELECTROCOATING STRIP

Joseph S. Buser, deceased, late of Marland Heights, W. Va., by Doris E. Morgan (formerly Doris E. Buser), administratrix, Altoona, Pa., assignor to National Steel Corporation, a corporation of Delaware

Continuation of application Serial No. 543,318, July 3, 1944. This application March 10, 1949, Serial No. 80,723

9 Claims. (Cl. 204—28)



1. The method of continuously and progressively manufacturing electro-tinplated strip comprising the steps of passing the strip through an electrolytic cell containing an acid plating bath of aqueous electrolyte solution including tin salt and fluorine ions, a source of the fluorine ions being a tin-free acidic fluorine compound present as a component of the electrolyte solution, electrodepositing a layer of tin on the strip while the strip is in contact with the electrolyte solution, thereafter passing the strip from the plating bath with tin salt-containing electrolyte solution carried from the plating bath on the strip, rinsing the strip with an aqueous rinse solution obtained by admixing water and a tin-free acidic fluorine compound, the amount of tin-free acidic fluorine compound in the rinse solution being sufficient to reduce the pH value of the aqueous rinse solution to the point where hydrolysis of the tin salt carried from the plating bath on the strip is substantially prevented, thereby removing tin salt from the strip, collecting the rinse solution containing the tin free acidic fluorine compound and the tin salt-containing electrolyte solution removed from the strip, and supplying the collected rinse solution to the plating system.

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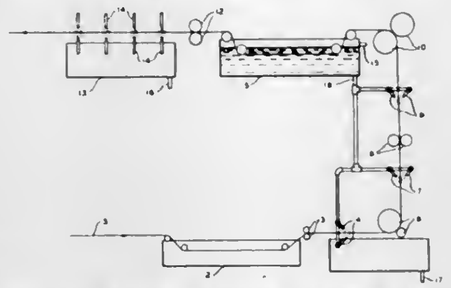
## METHOD OF ELECTROLYTIC COATING

Joseph S. Buser, deceased, late of Marland Heights, W. Va., by Doris E. Morgan (formerly Doris E. Buser), administratrix, Altoona, Pa., assignor to National Steel Corporation, a corporation of Delaware

Continuation of application Serial No. 543,318, July 3, 1944. This application March 10, 1949, Serial No. 80,724

5 Claims. (Cl. 204—28)

1. The method of continuously and progressively manufacturing electro-tinplated strip comprising the steps of passing strip through an electrolytic cell containing an acid plating bath of aqueous electrolyte solution including tin salt and fluorine ions, a source of the fluorine ions being a tin-free acidic fluorine compound present as a component of the electrolyte solution, electrodepositing a layer of tin on the strip while the strip is in contact with the electrolyte solution, thereafter passing the strip from the plating bath with tin salt-containing electrolyte solution carried from the plating bath on the strip, rinsing the strip with an aqueous rinse solution to remove electrolyte solution including tin salts from the strip by alternately spraying the aqueous rinse solution onto the strip and squeezing the resulting solution from the strip, the first spraying and squeezing operation diluting the concentration of tin salts in the solution remaining on the strip and each subsequent spraying and squeezing operation further diluting the concentration of tin salts in the residual solution remaining on the strip, thereafter rinsing the strip with an aqueous rinse to remove residual



electrolyte solution including tin salt remaining on the strip after being alternately sprayed and squeezed, said last-mentioned aqueous rinse being obtained by admixing water and a tin-free acidic fluorine compound, said tin-free acidic fluorine compound being in an amount sufficient to reduce the pH value of the aqueous rinse to a point where hydrolysis of tin salt carried from the plating bath on the strip and not removed by the alternate spraying and squeezing is substantially prevented, and utilizing aqueous rinse solution from said last-mentioned rinse step as the aqueous rinse solution for said spraying steps.

2,648,627

## BRIGHT NICKEL PLATING COMPOSITION AND PROCESS

Harold George Donnelly, Dearborn, Mich., assignor to Wagner Brothers, Inc., Detroit, Mich., a corporation of Michigan

No Drawing. Application May 24, 1950, Serial No. 164,040

11 Claims. (Cl. 204—49)

1. An acid aqueous nickel plating bath containing nickel salts, an acid buffering agent, and an at least partially water-soluble organic compound containing an isothioureido nucleus and having an organic radical attached to the sulphur atom of the nucleus, said organic compound being dissolved in said bath in sufficient quantity to produce bright nickel plating therefrom.

2,648,628

## ELECTROPLATING OF NICKEL

Henry Brown, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application July 17, 1950, Serial No. 174,375

12 Claims. (Cl. 204—49)

1. A bath for the electrodeposition of bright nickel comprising an aqueous acidic solution containing at least one nickel salt selected from the group consisting of nickel chloride and nickel sulfate, said bath also containing, in solution, not more than 15 grams per liter of at least one brightener selected from the group consisting of



organic sulfonamides, sulfonimides, and sulfonic acids, and, in addition, from about 0.005 to about 0.04 gram per liter of a bath-soluble compound in accordance with the formula



where



represents a compound selected from the group consisting of guinoline, isoquinoline and C-methyl and ethyl homologues thereof, R is halogen, and $x$ is zero to 2.

2,648,629

## ELECTROLYTIC PREPARATION OF PERIODATE OXYPOLYSACCHARIDES

William Dvonch and Charles L. Mehltretter, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 6, 1951, Serial No. 214,193

6 Claims. (Cl. 204—79)

(Granted under Title 35, U. S. Code (1952), sec. 266)

1. Method for the preparation of oxypolysaccharides comprising subjecting a polysaccharide material to the effect of substantially catalytic amounts of periodic acid in the presence of a cathode and a lead dioxide anode at a temperature of about from 5° C. to 50° C., passing electric current through the system, said periodic acid being continuously transformed to iodic acid by chemical reaction with the polysaccharide material and said iodic acid being continuously regenerated to periodic acid at the anode, and continuing said electric current until substantial amounts of the polysaccharide are oxidized.

2,648,630

## MERCURY CATHODE ELECTROLYSIS APPARATUS

Alexis Basilewsky, Sea Cliff, N. Y., assignor to Solvay & Cie, Brussels, Belgium, a Belgian company

Application March 19, 1951, Serial No. 216,441

6 Claims. (Cl. 204—219)



1. In an electrolysis apparatus of the mercury cathode type, the combination of an elongated substantially horizontal cell adapted to contain a flowing mercury cathode and a flowing aqueous electrolyte, means for maintaining the electrolyte at a fixed predetermined level, transverse partitions dividing said cell into a succession of chambers, said partitions extending from the top of said cell to below the level of the electrolyte but terminating a substantial distance from the bottom of the cell, whereby to permit unimpeded flow of mercury and electrolyte, each of said partitions being provided with at least one aperture in the upper portion of but substantially below the top of the partition, each of said apertures being adapted to receive and be closed by a stopper, and individual covers for each of said chambers removably positioned on said cell in fluid-tight relationship with the top of the cell walls and the tops of the adjacent partitions, and gas outlets at opposite ends of the cell for removing evolved gases from said cell.

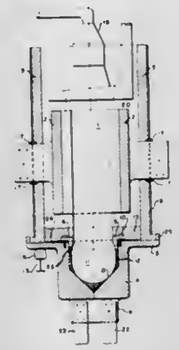
2,648,631

## FUSED SALT ELECTROLYSIS CELL

James V. Carlisle, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application July 13, 1950, Serial No. 173,671

5 Claims. (Cl. 204—243)



1. In a fused salt electrolysis cell characterized by a bottom mounted anode, the improved bottom and anode assembly comprising a liquid-tight metal base pan adapted to carry the cell current, a vertical anode of circular cross-section having a relatively short vertical portion thereof consisting of a frusto-conic section, a longitudinal section of said frusto-conic section forming an acute angle to the vertical, said frusto-conic section being adjacent the upper surface of the base pan, a body of low melting metal, and a plurality of arcuate clamps having internal bearing faces, the said faces being portions of a frusto-conic section substantially corresponding to the frusto-conic section of the anode, the pan having a socket receiving the lower end of the anode, said socket being larger in lateral area than the anode, but having integral registration means at the lower part contacting and centering the anode end in a lateral plane, the body of low melting metal partially filling the space in the socket not occupied by the anode, the clamps surmounting and attaching to the pan and retaining the anode in vertical alignment.

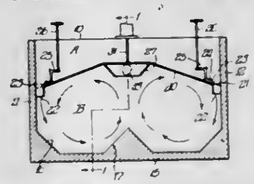
2,648,632

## VARIABLE DETENTION LIQUID TREATING APPARATUS

Walter J. Hughes, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware

Application August 13, 1947, Serial No. 768,307

6 Claims. (Cl. 210—16)



1. A coagulating device comprising a tank, partition means dividing said tank into a lower

reaction chamber in the lower portion of said tank and a superposed pressure chamber, said partition means being so constructed and arranged as to provide open passageways between said chambers at the side of said tank, inlet means for introducing liquid to be treated and any treating reagent into one end of the reaction chamber, an outlet from the horizontally opposed end of the reaction chamber discharging into the pressure chamber, a pumping means positioned to pump liquid through said outlet, and outlet means for coagulated liquid functionally remote from said inlet means, said passageways discharging tangentially to the flow from said liquid inlet to said outlet from the reaction chamber.

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2,648,633

## GREASE COMPOSITIONS

**Walter H. Peterson, Point Richmond, and Thurston Skei, Lafayette, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware**

**No Drawing. Application December 19, 1950, Serial No. 201,684**

**18 Claims. (Cl. 252—28)**

15. A lubricating composition comprising a major amount of a lubricating oil, a minor amount, sufficient to at least thicken said oil, of an inorganic colloid having an average particle size less than about 100 millimicrons, 10–75% by weight based on said colloid, of a cationic hydrophobic surface active agent and 1–20% by weight based on said colloid of an inorganic nitrite.

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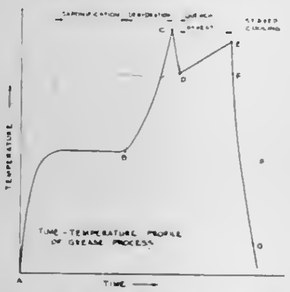
2,648,634

## METHOD OF PREPARING LUBRICATING GREASE COMPOSITIONS

**Robert J. Moore, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**Application July 14, 1950, Serial No. 173,754**

**13 Claims. (Cl. 252—41)**




1. A method of preparing a grease composition which comprises: heating a mixture of an organic liquid lubricant and a fibrous metallic soap of an aliphatic monocarboxylic acid having at least 10 carbon atoms per molecule, said soap being selected from the group consisting of alkali metal soaps and akaline earth metal soaps to a temperature between the minimum solution temperature, at which temperature said soap at least colloidally disperses in said lubricant, and 5° C. thereabove, for a period between 1 and 10 minutes; quenching the solution so formed to a temperature between about 15° C. and 50° C. below said minimum solution temperature; reheating the cooled mixture to a temperature between about 1° C. and about 10° C. below said minimum solution temperature; cooling the reheated mixture while subjecting it to shearing, to a temperature between 15° C. and 100° C. below the minimum solution temperature; and cooling the resulting grease to lower temperatures in the substantial absence of shearing.

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2,648,635

## FELTED WATER-SOLUBLE CLEANSING TISSUE

**Russell Jacques Brown, John Downing, and Walter Henry Groombridge, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain**

**No Drawing. Application September 9, 1949, Serial No. 114,914. In Great Britain October 7, 1948**

**1 Claim. (Cl. 252—91)**

A cleansing material comprising a felted sheet having a basis of a fibrous water-soluble methyl cellulose and containing also a non-fibre-forming surface active agent comprising a water-soluble higher alkyl sulfate having at least six carbon atoms in the alkyl group, the fibres of the methyl cellulose being bonded together by means of the sodium salt of carboxy-methyl cellulose in non-fibrous form.

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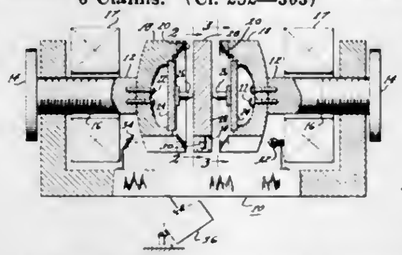
2,648,636

## METHOD AND APPARATUS FOR SEPARATION OF COLLOIDS IN A COLLOID SOLUTION

**Sidney G. Ellis, Princeton Junction, N. J., and Peter C. Stevenson, Berkeley, Calif., assignors to Radio Corporation of America, a corporation of Delaware**

**Application March 30, 1951, Serial No. 218,309**

**6 Claims. (Cl. 252—303)**



1. A system for concentrating electrically charged colloids having a known density and diameter in a colloidal solution of a known density and viscosity, comprising means including a rotor to apply a centrifugal force to said solution at a known angular velocity, means including an electromagnet to apply to said solution a known non-uniform magnetic field at right angles to said centrifugal force and with a sense to apply a centripetal force to said colloids whereby said colloids are concentrated at a level within the carrier of said colloids dependent upon the charge to mass ratio of said colloids.

2. Apparatus for concentrating electrically charged colloids in a colloidal mixture comprising means including a rotor to rotate said colloidal mixture about an axis at a known angular velocity to apply a centrifugal force thereto, means including an electromagnet to apply to said mixture a magnetic field parallel to the axis of rotation and having an intensity that ranges from a maximum to a minimum through said colloidal mixture, the polarity of said magnetic field being such as to apply a centripetal force to said colloids whereby said colloids are concentrated at a level within the carrier of said colloids dependent upon the charge on said colloids, and means to measure the distance of said colloidal concentration from said axis.



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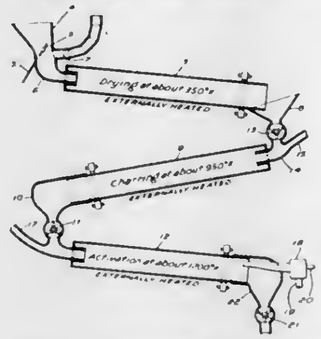
2,648,637

## METHOD OF PRODUCING ACTIVATED CARBON

**Hugh Rodman, Jr., Pittsburgh, Pa., assignor to Rodman Chemical Company, Verona, Pa., a corporation of Pennsylvania**

**Application August 6, 1948, Serial No. 42,896**

**8 Claims. (Cl. 252—421)**




1. A method of making activated carbon in the form of hard, tough, substantially spherical pellets, which comprises dry-mixing comminuted carbonaceous material capable of effective activation and a comminuted carbonaceous material resistant to activation selected from the group containing wood tar pitch and coal tar pitch; adding a liquid carbohydrate binder to such dry mixture and tumbling the wet mixture so formed to produce spherical pellets; drying pellets so formed; then carbonizing all the carbonaceous material and thereby converting such of said material as is resistant to activation, into a charred bonding structure within each such pellet; and then subjecting a mass of the charred and permanently bonded pellets to the action of an activating gas while maintaining such mass at an activating temperature.

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2,648,638

## METHOD FOR PREPARING A TELLURIUM OXIDE-CONTAINING CATALYST

**Frederick P. Richter, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**

**No Drawing. Application January 19, 1950, Serial No. 139,529**

**4 Claims. (Cl. 252—439)**

1. The method for preparing a tellurium oxide-containing catalyst, which comprises effecting contact at a temperature in the approximate range of 200° C. to 550° C. between metallic tellurium and a mixture of air and an organic compound having at least one radical selected from the group consisting of methyl and methylene radicals, which radical is characterized by being adjacent to a center of unsaturation, the volume ratio of said compound to air being between about 1:1 and about 1:9, said contact being made with an amount of said mixture and for a time sufficient to oxidize at least 50 per cent of said metallic tellurium to an oxide of tellurium.

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2,648,639

## CALCIUM MANGANATE-ALUMINUM OXIDE CATALYST

**Rufus B. Bennett, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware**

**No Drawing. Application June 28, 1949, Serial No. 101,901**

**4 Claims. (Cl. 252—463)**

4. A catalyst composition adapted for dehydrogenating hydrocarbons which comprises approximately 20% by weight calcium manganate and approximately 80% by weight of aluminum oxide.

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2,648,640

## LACQUER COMPOSITION CONTAINING A HYDROCARBON DERIVED RESIN

**Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**

**No Drawing. Application December 22, 1950, Serial No. 202,439**

**10 Claims. (Cl. 260—13)**

1. A lacquer composition comprising a resinous ingredient, an oxidation inhibitor capable of terminating the oxidation of said resinous ingredient when exposed to atmospheric oxygen, and a solvent for said resinous and inhibitor ingredients, said resinous ingredient comprising the product formed by oxidation of a mixture of unsaturated conjunct polymer hydrocarbons recovered from an acid-acting catalyst-hydrocarbon complex formed in the catalytic conjunct polymerization of hydrocarbons and consisting of polyolefinic, cyclic hydrocarbons boiling in the range of from about 150° to about 450° C. and having bromine numbers above about 140 and maleic anhydride values of from about 30 to about 90 and containing from about 2.5 to about 4 double bonds per molecule of which from about 40 to about 70% are in conjugated relationship to each other.

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2,648,641

## FIRE RETARDANT COATING CONTAINING A CARBOHYDRATE, UREA OR MELAMINE-FORMALDEHYDE AND DICYANDIAMIDE OR MELAMINE

**John E. Robison, Warren, Oreg., assignor to Fir-Tex Insulating Board Co., St. Helens, Oreg., a corporation of Oregon**

**No Drawing. Application August 3, 1950, Serial No. 177,550**

**9 Claims. (Cl. 260—17.3)**

3. A fire retardant, washable, intumescent coating composition of the character described including a reacted aminoplast-aldehyde resin selected from the group consisting of urea-formaldehyde resin and melamine formaldehyde resin, an amido compound selected from the group consisting of melamine and dicyandiamide, and a carbohydrate as the active ingredients, the said active ingredients being approximately in the relative ratio of 1:2:1 respectively, and said active ingredients carried in a solvent.

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2,648,642

## MEDIUM OIL ALKYD RESIN SURFACE COATING MATERIALS AND PROCESSES FOR PREPARING THE SAME

**Frank R. Spencer, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**Application January 21, 1950, Serial No. 139,806**

**12 Claims. (Cl. 260—21)**

1. A composition of matter comprising a compatible blend of about 10–50 parts of an amino-

plast resin selected from the group consisting of melamine-aldehyde resins and urea-aldehyde resins, about 90–50 parts of an alkyd resin modified with 26%–50% by weight of a material selected from the group consisting of semi-drying



glyceride oils, nondrying glyceride oils and the fatty acids derived therefrom and 0.5% to 10% by weight of a modifier comprising a polymeric alkyl ester of an alpha, beta unsaturated carboxylic acid.

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**2,648,643**

## ENGINE CORROSION PREVENTIVE

**William Henry Adams and William Denis Ervine, Kingston, England, assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application June 21, 1950, Serial No. 169,516. In Great Britain August 15, 1949**

**6 Claims. (Cl. 260—23)**

4. A composition consisting essentially of 1 to 10 parts by weight of microcrystalline wax of melting point between 135° and 210° F., 3 to 15 parts of mineral base lubricating oil, 0.01 to 0.05 part of a predominantly isobutylene polymer of molecular weight between 20,000 and 200,000, 0.05 to 5 parts of the Friedel-Crafts condensation product of chlorinated wax and naphthalene, 0.5 to 2 parts of a corrosion inhibitor comprising oil soluble metal petroleum sulfonate and lanoline, and 20 to 100 parts of a hydrocarbon solvent having a boiling point between 40° and 190° C.

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**2,648,644**

## SOFTENING AGENT FOR RUBBER, AND RESULTANT RUBBER COMPOSITION

**Frank M. McMillan, Berkeley, and De Loss E. Winkler, Orinda, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application April 26, 1950, Serial No. 158,322**

**6 Claims. (Cl. 260—28.5)**

6. A softened rubber composition made up in the ratio of 100 parts rubber to from 2 to 20 parts of a softener composition comprising from about 1 to 25% of an aromatic carboxylic acid together with at least 25% of an aromatic petroleum fraction and from 0 to 50% of a neutral petroleum oil, said aromatic petroleum fraction having a viscosity of at least 10 cs. at 210° F., softening below 200° F., and having a specific gravity (*d* 20/4) of from 0.9 to 1.05.

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**2,648,645**

## CEMENT COMPOSITION WITH ADDITIVE TO REDUCE WATER LOSS FROM A SLURRY THEREOF

**Matthew J. Boris, East Chicago, Ind., and Norman C. Ludwig, Chicago, Ill., assignors to Universal Atlas Cement Company, a corporation of Indiana**

**No Drawing. Application January 24, 1951, Serial No. 207,664**

**6 Claims. (Cl. 260—29.6)**

4. A cement composition comprising Portland cement, from .1 to 2% polyvinyl alcohol, from .02 to .30% of a compound selected from the group consisting of ortho-boric, meta-boric and tetra-boric acids and the sodium and potassium salts thereof, both said percentages being by weight of cement, and a defoaming agent..

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**2,648,646**

## SALT SOLUTIONS OF HIGH ACRYLONITRILE POLYMERS

**George W. Stanton, Walnut Creek, and Theodore B. Lefferdink and Thomas C. Spence, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,751**

**10 Claims. (Cl. 260—29.6)**

1. A new composition of matter comprising, as the essential constituents, a solution of a polymer selected from the group consisting of polyacrylonitrile and copolymers of at least 85 per cent acrylonitrile and up to 15 per cent of another vinyl compound, in an aqueous solution of at least 30 per cent based on the total weights of salts and water in said solution, but less than a concentration which will dissolve the polymer, of a salt having an anion at least as high in the appended lyotropic series of solvents for the polymer as its cation, and lesser amount, between 5 and 25 per cent, of a salt having an anion lower in the said lyotropic series than its cation and being mutually soluble in water with the other said salt, the total concentration of the salts in said aqueous solution being at least 55 per cent by weight; said lyotropic series of solvents for the polymer being:

| Cations in Increasing Order of Effectiveness | Anions in Decreasing Order of Effectiveness |
|---|---|
| $K^+$ | |
| $Fe^{+++}$ | |
| $Pb^{++}$ | |
| $NH_4^+$ | |
| $Cd^{++}$ | $SCN^-$ |
| $Al^{+++}$ | |
| $Na^+$ | |
| $Ba^{++}$ | $I^-$ |
| $Ca^{++}$ | |
| $Li^+$ | |
| $Mg^{++}$ | $Br^-$ |
| $Ga^{+++}$ | |
| $Sb^{+++}$ | |
| $In^{+++}$ | $Cl^-$ |
| $Tl^{+++}$ | |
| $Sn^{++++}$ | |
| $Zn^{++}$ | |
| $Ag^+$ | |
| $Ni^{++}$ | $NO_3^-$ |
| $Co^{++}$ | |
| $Mn^{++}$ | |
| | $SO_4^-$ |

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**2,648,647**

## POLYMERIZING ACRYLONITRILE IN AQUEOUS MIXED SALTS

**George W. Stanton, Walnut Creek, Theodore B. Lefferdink, Concord, and Clyde W. Davis, Antioch, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,752**

**6 Claims. (Cl. 260—29.6)**

1. The method which comprises polymerizing a material selected from the group consisting of monomeric acrylonitrile and mixtures thereof, wherein acrylonitrile predominates, with another polymerizable monoethylenically unsaturated compound, in an aqueous solution of at least 30 per cent based on the total weights of salts and water in said solution, but less than a concentration which will dissolve the intended polymer, of a salt whose anion is at least as high in the appended lyotropic series of solvents for the polymer as its cation, and an additional but lesser amount, from 5 to 25 per cent, of another



salt, mutually soluble in the water with the first, whose anion is lower in the said lyotropic series than its cation, the aggregate concentration of both salts being at least 55 per cent by weight in said solution, and the initial concentration of monomer in the salt solution being at least 10 per cent by volume, thereby to produce a clear, spinnable solution of a polymer rich in acrylonitrile; said lyotropic series of solvents for the polymer being:

| Cations in Increasing Order of Effectiveness | Anions in Decreasing Order of Effectiveness |
|---|---|
| $K^+$ | |
| $Fe^{+++}$ | |
| $Pb^{++}$ | |
| $NH_4^+$ | |
| $Cd^{++}$ | $SCN^-$ |
| $Al^{+++}$ | |
| $Na^+$ | |
| $Ba^{++}$ | $I^-$ |
| $Ca^{++}$ | |
| $Li^+$ | |
| $Mg^{++}$ | $Br^-$ |
| $Ga^{+++}$ | |
| $Sb^{+++}$ | |
| $In^{+++}$ | $Cl^-$ |
| $Tl^{+++}$ | |
| $Sn^{++++}$ | |
| $Zn^{++}$ | |
| $Ag^+$ | |
| $Ni^{++}$ | $NO_3^-$ |
| $Co^{++}$ | |
| $Mn^{++}$ | |
| | $SO_4^-$ |

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**2,648,648**

## HIGH ACRYLONITRILE POLYMER SOLUTIONS

**George W. Stanton, Walnut Creek, Theodore B. Lefferdink, Concord, and Clyde W. Davis, Antioch, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,753**

**5 Claims. (Cl. 260—29.6)**

1. A composition of matter, the essential constituents of which are a polymer of acrylonitrile containing at least 85 per cent by weight of acrylonitrile in the polymer molecule and from 5 to 30 per cent of its weight of an organic peptizing agent therefor, in an aqueous saline solution capable of dissolving polyacrylonitrile the principal saline constituent in said solution being one whose anion is at least as high as its cation in the appended lyotropic series of solvents for the polymer:

| Cations in Increasing Order of Effectiveness | Anions in Decreasing Order of Effectiveness |
|---|---|
| $K^+$ | |
| $Fe^{+++}$ | |
| $Pb^{++}$ | |
| $NH_4^+$ | |
| $Cd^{++}$ | $SCN^-$ |
| $Al^{+++}$ | |
| $Na^+$ | |
| $Ba^{++}$ | $I^-$ |
| $Ca^{++}$ | |
| $Li^+$ | |
| $Mg^{++}$ | $Br^-$ |
| $Ga^{+++}$ | |
| $Sb^{+++}$ | |
| $In^{+++}$ | $Cl^-$ |
| $Tl^{+++}$ | |
| $Sn^{++++}$ | |
| $Zn^{++}$ | |
| $Ag^+$ | |
| $Ni^{++}$ | $NO_3$ |
| $Co^{++}$ | |
| $Mn^{++}$ | |
| | $SO_4$ |



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**2,648,649**

## ACRYLONITRILE POLYMERS PLASTICIZED WITH AQUEOUS INORGANIC SALT SOLUTIONS

**George W. Stanton, Walnut Creek, and Theodore B. Lefferdink and Thomas C. Spence, Concord, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,758**

**3 Claims. (Cl. 260—29.6)**

1. A composition of matter consisting essentially of (1) a polymer of at least 85 per cent acrylonitrile, any balance being a copolymerized monoethylenically unsaturated compound, (2) from about 6 to 20 per cent, based on the weight of polymer, of a humectant selected from the group consisting of (*a*) an inorganic, hygroscopic water-soluble metal salt whose anion is at least as high as its cation in the appended lyotropic series of solvents for the polymer, and (*b*) water-soluble mixtures of from 30 to 50 parts of such salt with from 5 to 25 parts of a salt whose anion is lower in said series than its cation, in proportions to make at least 55 parts by weight, and (3) an amount of water from 0.5 to 2 times the weight of said salt, said lyotropic series being:

| Cations in Increasing Order of Effectiveness | Anions in Decreasing Order of Effectiveness |
|---|---|
| $K^+$ | |
| $Fe^{+++}$ | |
| $Pb^{++}$ | |
| $NH_4^+$ | |
| $Cd^{++}$ | $SCN^-$ |
| $Al^{+++}$ | |
| $Na^+$ | |
| $Ba^{++}$ | $I^-$ |
| $Ca^{++}$ | |
| $Li^+$ | |
| $Mg^{++}$ | $Br^-$ |
| $Ga^{+++}$ | |
| $Sb^{+++}$ | |
| $In^{+++}$ | Cl |
| $Tl^{+++}$ | |
| $Sn^{++++}$ | |
| $Zn^{++}$ | |
| $Ag^+$ | |
| $Ni^{++}$ | $NO_3^-$ |
| $Co^{++}$ | |
| $Mn^{++}$ | |
| | $SO_4^-$ |

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**2,648,650**

## ORGANO TIN COMPOUNDS AND COMPOSITIONS CONTAINING SAME

**Elliott L. Weinberg, Long Island City, N. Y., and Ernest W. Johnson, Westfield, N. J., assignors to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey**

**No Drawing. Application June 21, 1951, Serial No. 232,878**

**23 Claims. (Cl. 260—30.6)**

1. A compound having the formula

$$R_nSn(SR'COOR'')_{4-n}$$

wherein $n$ is an integer from 1 to 3, R is selected from the group consisting of alkyl, aryl and aralkyl radicals, R'' is from the group consisting of hydrogen, alkyl, aryl, and aralkyl radicals, and R' is an alkylene radical.

2,648,651

**METHODS OF AND MEANS FOR THE PROTECTION OF MATERIALS AND EQUIPMENT SENSITIVE TO THE ACTION OF WATER, MOISTURE AND MOLD GROWTH**

**Lucienne Anne Marguerite Casati, Vincennes, Jean Louis Gonnard, Villeurbanne, and Joseph Edouard Gustave Lahousse, Lyon, France, assignors to Societe Des Usines Chimiques Rhone-Poulenc**

**No Drawing. Application February 5, 1951, Serial No. 209,522. In France February 13, 1950**

**7 Claims. (Cl. 260—31.8)**

1. A composition for the protection of materials or equipment against the action of water which comprises as its essential constituents between 25% and 65% by weight of polyvinyl chloride and between 25 and 75% by weight of a mixture of a fraction of anthracene oil substantially free from anthracene itself and from phenols, amines and sulphur compounds and boiling at 95 to 130° C. under 10 mm. of mercury and at least one plasticiser for polyvinyl chloride.

2,648,652

**PLASTICIZED POLYVINYL CHLORIDES**

**Otto von Schickh, Ludwigshafen (Rhine), and Waldtraut Froese, Weinheim, Bergstrasse, Germany**

**No Drawing. Application March 29, 1951, Serial No. 218,254. In Germany May 4, 1950**

**4 Claims. (Cl. 260—31.8)**

1. A composition of matter comprising polyvinyl chloride plasticized with an aliphatic carboxylic acid ester of 6-chlorohexanol-1.

2,648,653

**COMPOSITIONS CONTAINING POLYMERIZED ACRYLONITRILE AND SOLVENT THEREFOR**

**Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware**

**No Drawing. Application September 29, 1950, Serial No. 187,690**

**16 Claims. (Cl. 260—32.6)**

1. A composition of matter comprising polymeric acrylonitrile and an N,N - dimethyl - carbamate of the formula

$$(CH_3)_2NCOOCH_2R$$

wherein R is a member of the class consisting of hydrogen, methyl, nitro, cyano, thiocyano, nitromethyl, cyanomethyl and thiocyanomethyl radicals said polymeric acrylonitrile containing in the polymer molecule essentially only monoethylenically unsaturated units at least 80% by weight of which are acrylonitrile units.

2,648,654

**METHOD OF MAKING A RESINOUS SILOXANE AND PRODUCT**

**John E. Dereich, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware**

**No Drawing. Application December 23, 1949, Serial No. 134,847**

**9 Claims. (Cl. 260—46.5)**

1. The resinous products obtained by condensing a hydrolyzate of the products of reaction of a compound selected from the group consisting of compounds having the general formula

$$RSi(OR')_2X$$

wherein R represents a member of the group consisting of mono-nuclear aryl, alkaryl and aralkyl hydrocarbon radicals, and lower aliphatic hydrocarbon radicals, R' is a lower alkyl radical, and X represents a member of the group consisting of chlorine and bromine, and mixtures of such compounds, with a compound having the general formula $XCH_2CHXCH_2X$, wherein X represents a member of the group consisting of chlorine and bromine, and with metallic zinc.

2,648,655

**LOW-TEMPERATURE EMULSION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS**

**Edwin J. Vandenberg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application November 24, 1948, Serial No. 61,917**

**9 Claims. (Cl. 260—82.5)**

1. In the process which comprises polymerizing an organic compound containing the $CH_2{=}CH{<}$ group at a temperature between about −5° C. and −70° C. in aqueous emulsion in the presence of a water-soluble organic compound of low freezing point as antifreeze agent, an α,α-dialkylarylmethyl hydroperoxide as catalyst, between about 0.5% and about 5% of an alkali metal salt of a dehydrogenated rosin acid as emulsifying agent, and a metal electromotive couple having a standard oxidation potential between about −1.0 and about −0.3 volt as activator, the improvement which comprises using an alkali metal salt of a dehydrogenated rosin acid which is produced by saponifying said dehydrogenated rosin acid in an aqueous solution of the said antifreeze agent.

2,648,656

**LOW-TEMPERATURE EMULSION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS**

**Edwin J. Vandenberg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application November 24, 1948, Serial No. 61,918**

**10 Claims. (Cl. 260—82.5)**

1. The process which comprises polymerizing an organic compound containing the $CH_2{=}C{<}$ group at a temperature between about −5° C. and −70° C. in aqueous emulsion in the presence of a water-soluble organic compound of low freezing point as antifreeze agent, an α,α-dialkylarylmethyl hydroperoxide as catalyst, between about 0.5% and about 5% of an alkali metal hydrorosin acid salt wherein said hydrorosin acid is at least about 90% saturated with hydrogen as emulsifying agent, and a metal electromotive couple having a standard oxidation-reduction potential between about −1.0 and about −0.3 volt as activator.

2,648,657

**EMULSION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS**

**Edwin J. Vandenberg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application April 12, 1947, Serial No. 740,999**

**20 Claims. (Cl. 260—84.1)**

1. The process which comprises polymerizing in aqueous emulsion an organic compound which contains the $CH_2{=}C{<}$ group in the presence of a catalyst comprising a tertiary organic hydroperoxide having between 7 and 15 carbon atoms, an activator comprising a water-soluble heavy metal salt and an α-hydroxycarbonyl compound, and an emulsifying agent comprising an alkali metal salt of a $C_{20}H_{30}O_2$ rosin acid.



2,648,658

**EMULSION POLYMERIZATION OF UNSATURATED ORGANIC COMPOUNDS**

**Edwin J. Vandenberg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application April 12, 1947, Serial No. 741,000**

**20 Claims. (Cl. 260—84.1)**

1. The process which comprises polymerizing in aqueous emulsion an organic compound containing the $CH_2{=}C{<}$ group in the presence of a catalyst comprising a tertiary organic hydroperoxide having between 7 and 15 carbon atoms, an activator comprising a water-soluble heavy metal salt and an α-hydroxycarbonyl compound, and an emulsifying agent comprising an alkali metal salt of a fatty acid.

2,648,659

**METHOD OF MAKING HIDE GLUE**

**Andrew Spence, Houston, Tex., and Milton S. Lev and William A. Reddie, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois**

**No Drawing. Application August 3, 1951, Serial No. 240,264**

**8 Claims. (Cl. 260—118)**

1. The method of manufacturing glue from bacon rinds, which comprises extracting salt from said rinds with water maintained at a temperature of about 110° to 120° F., separating the extracted rinds from the water, soaking the separated rinds in acid solution for a time sufficient to permit substantial hydrolysis of said rinds, separating the acid-soaked rinds from the acid solution, and extracting glue from the rinds.

2,648,660

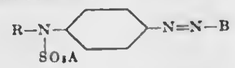
**PROCESS FOR THE PREPARATION OF DIAZO AMINO COMPOUNDS AND WATER-INSOLUBLE AZO DYESTUFFS ON FIBERS**

**Robert Lazare Lantz, Paris, France, assignor to Compagnie Francaise des Matieres Colorantes S. A. R. L., Paris, France, a company of France**

**No Drawing. Application March 20, 1951, Serial No. 216,665. In France March 24, 1950**

**7 Claims. (Cl. 260—140)**

1. As a new product, a diazoamino compound of the general formula:



wherein

A represents an atom of an alkali metal,
R represents a member selected from the group consisting of methyl, ethyl, phenyl and methoxyphenyl radicals, and
B represents the residue of a member of the group consisting of the primary and secondary amines.

2,648,661

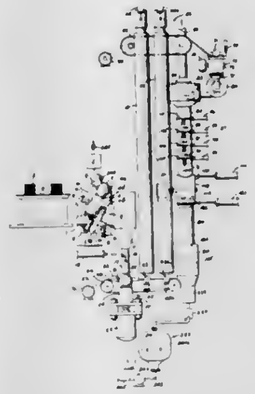
**METHOD AND APPARATUS FOR PRODUCING VISCOSE**

**Charles D. Vandenburgh, Charlestown, Md., and Maurice P. Kulp, Marcus Hook, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**

**Application February 3, 1950, Serial No. 142,172**

**23 Claims. (Cl. 260—217)**

1. In a process for producing viscose the steps comprising steeping and shredding cellulose in an aqueous alkaline solution, pressing the steeped cellulose to form a cake thereof having a predetermined ratio of alkali cellulose to original dry cellulose, ageing the alkali cellulose cake by passing it through a path in intermittent steps, disintegrating the cake, mixing the disintegrated cake with carbon disulfide, reacting the disintegrated cake with carbon disulfide to form cellulose xanthate therefrom, mixing the cellulose xanthate with an aqueous alkaline solution to form a xanthate slurry, and homogenizing said slurry.



17. An apparatus for producing viscose comprising in combination cellulose steeping means, shredding means in the steeping means, hydraulic means below the steeping means for pressing a slurry to form a cake, vertically movable conduit means connecting the steeping and pressing means, endless belt means adjacent the pressing means for removing the pressed cakes therefrom, means above the pressing means to transfer the cakes from the pressing means to the belt means and means for controlling the operation of aforementioned means sequentially and periodically at predetermined time intervals.

2,648,662

**PREPARATION OF 3,20-DIKETO-17α-HYDROXY STEROIDS**

**Percy L. Julian, Maywood, and Edwin W. Meyer and Isabelle Ryden, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio**

**No Drawing. Application August 4, 1949, Serial No. 108,657**

**16 Claims. (Cl. 260—239.55)**

1. The process of treating a 3-hydroxy-17α-hydroxy - 17 - acetyl - 10,13 - dimethylcyclopentanopolyhydrophenanthrene with a glycol to form a 20-cyclic alkylene ketal derivative of the starting material, oxidizing the 3-hydroxy group of the resulting ketal compound to a keto group, then hydrolyzing the ketal group of the resulting 3-keto compound in the presence of acid, and separating the resulting 3-keto-17α-hydroxy - 17 - acetyl - 10,13 - dimethylcyclopentanopolyhydrophenanthrene.

2,648,663

## PREPARATION OF 17α-HYDROXY STEROIDS

Percy L. Julian, Maywood, and Edwin W. Meyer and Isabelle Ryden, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application August 4, 1949, Serial No. 108,658
23 Claims. (Cl. 260—239.55)

1. The process which comprises treating a C–20 cyclic lower alkylene ketal of a 16,17-oxido-20-keto steroid of the $C_{21}$ series, the nucleus of which is a cyclopentano-10,13-dimethylpolyhydrophenanthrene radical with lithium aluminum hydride.

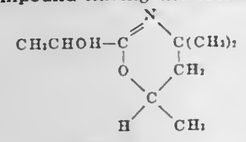
2,648,664

## 4,4,6-TRIMETHYL-2-(1-HYDROXYETHYL)-5,6-DIHYDRO-1,3-4H-OXAZINE

William P. Ratchford, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 23, 1951, Serial No. 217,281
3 Claims. (Cl. 260—244)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. The compound having the formula:



2,648,665

## 4-QUINAZOLONE-3-ACETOACETIC ACIDS, THE ESTERS THEREOF AND SALTS OF SAID ACIDS AND SAID ESTERS

Bernard R. Baker, Nanuet, N. Y., and Merle V. Querry, Westwood, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 29, 1951, Serial No. 208,431
16 Claims. (Cl. 260—251)

1. Compounds selected from the group consisting of the 4-quinazolone-3-acetoacetic acids, the esters thereof and salts of said acids and said esters.

9. A method for preparing the 4-quinazolone-3-acetoacetic acids, the esters thereof and salts of said esters and said acids which comprises heating an aqueous solution of a 4-quinazolone-3-acetylmalonic acid ester at a temperature of from about 50° C. to 125° C.

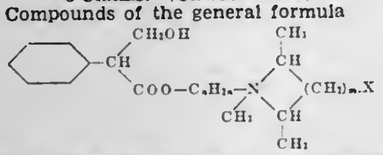
2,648,666

## QUATERNARY AMMONIUM SALTS DERIVED FROM HETEROCYCLYLALKYL ESTERS OF TROPIC ACID

Richard A. Robinson, Morton Grove, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application March 1, 1950, Serial No. 147,149
8 Claims. (Cl. 260—294.3)

1. Compounds of the general formula



wherein $n$ is an integer from 2 to 4 inclusive and $m$ is an integer greater than 1 and less than 4, and wherein X is an equivalent of an anion.

2,648,667

## ESTERS OF 1-AZABICYCLOALKANOLS

Leo Henryk Sternbach, Upper Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application April 18, 1951, Serial No. 221,733
9 Claims. (Cl. 260—294.3)

1. A compound selected from the group consisting of acyloxy-1-azabicycloalkanes and their salts, the acyl radical being that of an acid selected from the group consisting of diphenylacetic acid, benzilic acid, fluorene-9-carboxylic acid, acetylmandelic acid, tropic acid, and atropic acid, and the 1-azabicycloalkanyl radical being that of a 1-azabicycloalkanol selected from the group consisting of 1-azabicyclo[2.2.2]-3-octanol, 1-azabicyclo[2.2.2]-3-methyl-3-octanol, 1-azabicyclo[3.2.1]-6-octanol, 1-azabicyclo[3.3.1]-4-nonanol, and 1-azabicyclo[3.3.1]-2-methyl-4-nonanol.

2,648,668

## PROCESS FOR RECOVERING NICOTINIC ACID FROM SOLUTIONS THEREOF IN SULFURIC ACID

Andrew J. Martin, East Orange, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 26, 1951, Serial No. 223,153
17 Claims. (Cl. 260—295.5)

1. A process for recovering nicotinic acid bisulfate from solutions thereof in substantially water-free sulfuric acid, which comprises mixing the nicotinic acid-sulfuric acid solution with a normally liquid aliphatic acid having at least 2 carbon atoms and separating the nicotinic acid bisulfate which precipitates.

2,648,669

## REACTION PRODUCT OF SODIUM DICYANAMIDE AND HYDROXYLAMINE HYDROCHLORIDE

John J. Roemer, North Stamford, and Donald W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application May 29, 1951, Serial No. 228,878
2 Claims. (Cl. 260—307)

1. The method of preparing a compound of the formula $C_2H_4N_4O$ which comprises subjecting a hydroxylamine salt to the action of a metal salt of a dicyanamide in an inert solvent at a reaction temperature of at least room temperature.

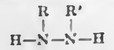
2,648,670

## PREPARATION OF GUANAZOLES

Donald W. Kaiser, Old Greenwich, and John J. Roemer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 19, 1951, Serial No. 211,804
8 Claims. (Cl. 260—308)

1. The method of preparing a guanazole that comprises heating at 65°–150° C. a member of the group consisting of dicyanamide and its metal salts with a member of the group consisting of a hydrazine of the formula



and salts thereof, in which R and R′ are members of the group consisting of hydrogen and alkyl-hydrocarbon and aromatic-hydrocarbon radicals, in an inert solvent, under substantially non-acidic conditions.



2,648,671

## PREPARATION OF GUANAZOLE

John J. Roemer, Stamford, and Donald W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 15, 1951, Serial No. 231,895
5 Claims. (Cl. 260—308)

1. The method of preparing a guanazole hydrohalide which comprises heating dicyandiamide and a member of the group consisting of hydrazine dihydrochloride and hydrazine dihydrobromide in aqueous solution at a temperature in the range of about 30°–100° C.

2,648,672

## PROCESS FOR THE PRODUCTION OF DYESTUFFS OF THE PHTHALOCYANINE SERIES

Fritz Muehlbauer, Ludwigshafen (Rhine), Germany

No Drawing. Application December 20, 1950, Serial No. 201,864. In Germany December 27, 1949
6 Claims. (Cl. 260—314.5)

1. A process for the production of dyestuffs of the phthalocyanine series containing sulfonic acid groups which comprises heating a mixture of one mol of phthalocyanine dyestuff and from 0.5 to 8 mols of a sulfonating agent at temperatures of from 80° C. to 220° C.

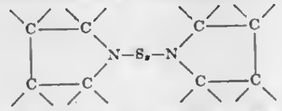
2,648,673

## N-THIO PYRROLIDINES

Thomas E. Lesslie, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 10, 1950, Serial No. 189,485
7 Claims. (Cl. 260—313)

1. An N-thioamine of a compound containing a pyrrolidine nucleus containing the structure



where $x$ is an integer less than five and the valences of the carbon atoms are satisfied by substituents selected from the group consisting of hydrogen, short chain alkyl groups, short chain carbalkoxy groups and chlorine.

2,648,674

## COBALT PHTHALOCYANINE-ACETIC ACID AND CHLORINATED DERIVATIVES THEREOF

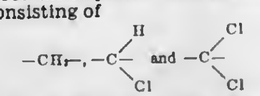
Fritz Muehlbauer, Ludwigshafen (Rhine), Germany

No Drawing. Application November 15, 1950, Serial No. 195,920. In Germany November 24, 1949
5 Claims. (Cl. 260—314.5)

1. Vat dyestuffs of the phthalocyanine series of the general formula

$$Ph—(R—COOH)_n$$

wherein Ph stands for a cobalt phthalocyanine radical, R for an aliphatic radical selected from the class consisting of



and $n$ for a number from 1 to 4, said dyes being vattable in alkaline hyposulfite solution but substantially insoluble in aqueous alkali metal hydroxide solutions.

2,648,675

## METHOD FOR PREPARING THIOLANE AND ITS HOMOLOGS

George B. Hatch, Fishkill, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application August 6, 1948, Serial No. 43,016
13 Claims. (Cl. 260—329)

1. A method for preparing thiolane and its homologs which comprises introducing hydrogen and a compound selected from the group consisting of thiophene and thiophene homologs into a reaction zone maintained at a temperature of 400 to 600° F. and a pressure between 1000 p. s. i. and 5,000 p. s. i. and containing a hydrogenation catalyst comprising mainly a compound selected from the group consisting of oxides and sulfides of group VI metals removing a product from said reaction zone and recovering a thiolane compound from said product.

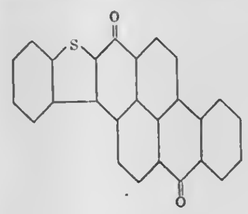
2,648,676

## VAT DYE AND INTERMEDIATE

Wilhelm Schmidt-Nickels, Little York, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application March 19, 1951, Serial No. 216,457
2 Claims. (Cl. 260—329.2)

1. A vat dyestuff having the following formula:



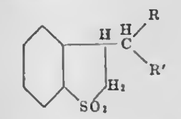
2,648,677

## ADDITION PRODUCT OF THIANAPHTHENE SULFONE AND MALONIC ACID ESTERS

Wilbur H. McKellin, Somerville, N. J., Frederick G. Bordwell, Evanston, Ill., and Otto C. Elmer, Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application September 16, 1950, Serial No. 185,334
4 Claims. (Cl. 260—330.5)

1. 3-negatively di-substituted methyl-2,3-dihydrothianaphthene-1-dioxide compounds having the following general formula:



wherein R and R′ are negative radicals selected from the group consisting of carboxy and carbalkoxy radicals, the nitrile radical and the acetyl radical.

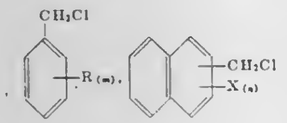
2,648,678

## PROCESS OF PREPARING ARALKYL CARBONATES

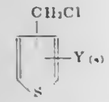
Charles Adam Heiberger, Nitro, W. Va., assignor to Ohio-Apex, Inc., Nitro, W. Va., a corporation of West Virginia

No Drawing. Application January 13, 1951, Serial No. 205,967
10 Claims. (Cl. 260—332.5)

1. The process for the production of organic carbonates which comprises heating at temperatures of about 50° to about 150° C. a substantially anhydrous mixture of carbonate of sodium and a compound selected from the group consisting of



and



wherein R is a substituent selected from the group consisting of halogen, lower alkyl, lower alkoxy, phenyl, phenoxy, and combinations thereof, *m* is a number from zero to five, the number of carbons in the substituents being not greater than six; X is selected from the group consisting of halogen, methyl, and combinations thereof; Y is a halogen and *n* is a number from zero to two; in the presence of a nitrogen bearing organic compound as a catalyst, said organic compound being characterized by the fact that three valences of said nitrogen are satisfied by attachment to a carbon atom, no more than two of said valences being satisfied by the same carbon atom.

2,648,679

## 1-KETO-8RO-1,2,3,4,4a,5,6,10b,11,12,12a DODECAHYDROCHRYSENES

William S. Johnson, Madison, Wis., and Dilip K. Banerjee, Calcutta, India, assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin

No Drawing. Application August 8, 1950, Serial No. 178,357
7 Claims. (Cl. 260—340.5)

1. The products selected from the group consisting of 1-keto-8-RO-1,2,3,4,4a,4b,5,6,10b,11,12,12a-dodecahydrochrysene and 2-arylmethylene derivatives thereof, where R is selected from the group consisting of hydrogen and hydrocarbon blocking groups containing 1 to 8 carbon atoms.

2,648,680

## PROCESS FOR THE PRODUCTION OF ESTERS OF CYCLIC ACETALS

John David Brandner, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a a corporation of Delaware

No Drawing. Application March 30, 1951, Serial No. 218,556
8 Claims. (Cl. 260—340.7)

1. A process for the preparation of a higher fatty acid ester of a hydroxyl bearing cyclic acetal which comprises esterification of a hydroxyl bearing cyclic acetal with a higher fatty acid in the presence of an alkaline catalyst.

2,648,681

## PROCESS FOR THE PRODUCTION OF A RODENTICIDAL COMPOSITION

Franz Litvan and Willy Stoll, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application June 4, 1951, Serial No. 229,871. In Switzerland July 25, 1950
2 Claims. (Cl. 260—343.2)

1. Process for the preparation of a crude rodenticidal mixture consisting in melting together substantially equimolecular proportions of 4-hydroxycoumarin and benzalacetone in the absence of any liquid diluent, heating the melt at a temperature of at least 120° for several hours and pulverising the solid crude reaction product when cold.

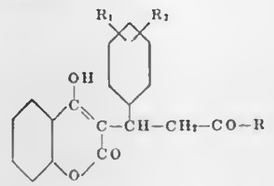
2,648,682

## 3-SUBSTITUTED 4-HYDROXYCOUMARINS AND PROCESS FOR THEIR PRODUCTION

Willy Stoll and Franz Litvan, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application January 3, 1951, Serial No. 204,281. In Switzerland January 31, 1950
8 Claims. (Cl. 260—343.2)

1. Derivatives of 4-hydroxycoumarin of the general formula:



wherein R represents a member selected from the group consisting of low molecular aliphatic hydrocarbon radicals, phenyl, halogenphenyl, methylphenyl, methoxyphenyl and nitrophenyl radicals and phenyl-substituted lower alkyl radicals, $R_1$ represents a member selected from the group consisting of halogen and nitro, and $R_2$ represents a member selected from the group consisting of hydrogen, halogen and methyl.

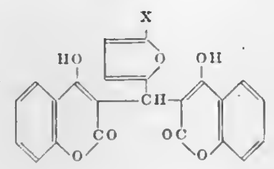
2,648,683

## 4-HYDROXYCOUMARIN DERIVATIVES

Franz Litvan and Willy Stoll, Basel, Switzerland, assignors to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application May 16, 1952, Serial No. 288,307. In Switzerland June 5, 1951
3 Claims. (Cl. 260—343.2)

1. A derivative of 4-hydroxycoumarin corresponding to the formula:



wherein X represents a member selected from the group consisting of hydrogen, chlorine and bromine.



2,648,684

## AMINO DERIVATIVES OF DIBENZOFURAN

Wilhelm Wenner, Upper Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Original application October 28, 1949, Serial No. 124,260. Divided and this application November 23, 1951, Serial No. 257,965
7 Claims. (Cl. 260—346.2)

1. A compound selected from the group consisting of 2-benzylaminomethyl-dibenzofuran and its addition salts and 2-cyclohexylaminomethyl-dibenzofuran and its acid addition salts.

2,648,685

## PRODUCTION OF CARBOXYLIC ACID AMIDES

Walter Reppe, Ludwigshafen (Rhine), and August Magin, Mutterstadt, Pfalz, Germany

No Drawing. Application February 9, 1950, Serial No. 143,363. In Germany October 1, 1948
8 Claims. (Cl. 260—347.3)

1. A process for the production of carboxylic acid amides which comprises reacting an olefinic compound with carbon monoxide and an aminating compound from the group consisting of ammonia, primary amines and secondary amines in the presence of a cyanide of a metal capable of forming metal carbonyls, at a temperature between 100° C. and 200° C. and a pressure exceeding 20 atmospheres.

7. A process for the production of tetrahydrofurane carboxylic acid amide which comprises reacting about 500 grams of dihydrofurane with carbon monoxide and about 400 grams of water, 600 grams of methanol and about 190 grams of anhydrous ammonia in the presence of about 71 grams of nickel cyanide, heating the mixture to about 135° C. and adding carbon monoxide to maintain a total pressure of about 70 atmospheres.

2,648,686

## PROCESS FOR REDUCING STEROID KETONES TO THEIR CORRESPONDING METHYLENE ANALOGS

Huang Minlon, Metuchen, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 17, 1949, Serial No. 133,677
4 Claims. (Cl. 260—397.1)

1. The process of reducing a steroid ketone to the corresponding methylene derivative, which comprises mixing said steroid ketone with hydrazine sulfate, an alkali metal hydroxide, and a polyethylene glycol, heating the resulting mixture until the temperature of the mixture reaches an elevated temperature of at least 190° C., and maintaining the mixture at said elevated temperature.

2,648,687

## PROCESS OF PREPARING CHOLESTEROL

La Verne Van Ness, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application January 27, 1951, Serial No. 208,227
12 Claims. (Cl. 260—397.2)

1. In a process for preparing cholesterol, the steps of dissolving crude cholesterol in an alkali metal hydroxide solution containing at least 85% by volume of alcohol, crystallizing cholesterol from the solution thus formed, and separating said crystallized cholesterol.

2,648,688

## PROCESS FOR PREPARING 21-ALKYL ETHERS OF CORTISONE

Huang Minion, Metuchen, N. J., and John C. Babcock, Cambridge, Mass., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application December 23, 1950, Serial No. 202,566
13 Claims. (Cl. 260—397.4)

1. The process of preparing 21-alkyl ethers of $\Delta^4$ - 3,11,20 - triketo - 17,21 - dihydroxy - pregnene which comprises reacting alcoholic alkali with a compound selected from the class which consists of $\Delta^{17}$-3,21-dihydroxy-11-keto-20-cyano-pregnene and $\Delta^{17}$ - 3,21 - diacyloxy - 11 - keto-20-cyano-pregnenes, thereby producing $\Delta^{17}$-3-hydroxy - 11 - keto - 20 - cyano - 21 - alkoxy-pregnene, converting this compound to the 17,20-osmate ester of 3,11-diketo-17,20-dihydroxy-20-cyano-21-alkoxy-pregnane, hydrolyzing said osmate ester to form 3,11,20-triketo-17-hydroxy-21-alkoxy-pregnane, reacting this compound with bromine, and heating the resulting 4-bromo derivative with a dehydrohalogenating agent.

2,648,689

## PREPARATION OF p'(BENZOYLSULFAMYL) PHTHALANILIC ACID

Ferdinand B. Zienty, Brentwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 8, 1950, Serial No. 194,380
3 Claims. (Cl. 260—397.7)

1. In a process for the preparation of p'(benzoyl-sulfamyl)phthalanilic acid, the step comprising reacting $N^1$-benzoyl-sulfanilamide and phthalic anhydride in acetone.

2,648,690

## PROCESS FOR THE PREPARATION OF 4 - (ACYLSULFAMYL) DERIVATIVES OF ANILIC ACIDS

Evan J. Young, Valley Park, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 22, 1950, Serial No. 202,415
11 Claims. (Cl. 260—397.7)

1. In a process for the preparation of 4-(acylsulfamyl) derivatives of anilic acids, the step comprising reacting an $N^1$-acylsulfanilamide, wherein the acyl radical is derived from a monocarboxylic acid by the removal of the hydroxyl group, said monocarboxylic acid being selected from the group consisting of saturated alkyl monocarboxylic acids containing 2 to 5 carbon atoms inclusive and phenylacetic acid, and a dicarboxylic acid anhydride selected from the group consisting of the anhydrides of saturated alkyl dicarboxylic acids containing 4 to 10 carbon atoms inclusive, maleic acid, gamma-ketopimelic acid, phthalic acid and chlorophthalic acid in a ketone selected from the group consisting of acetone and 2-butanone.

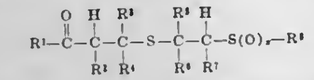
2,648,691

## STABILIZATION OF ORGANIC COMPOUNDS

Ralph B. Thompson, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

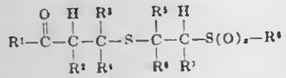
No Drawing. Application August 23, 1950, Serial No. 181,099
10 Claims. (Cl. 260—398.5)

1. An organic sulfur compound represented by the formula



wherein each of $R^1$ to $R^7$ is separately and independently selected from the members of the group consisting of hydrogen, alkyl, alkenyl, cycloalkyl, cycloalkalkyl, aryl, alkaryl groups and a heterocyclic group; $R^8$ represents a member of the group consisting of alkyl, alkenyl, cycloalkyl, cycloalkalkyl, aryl, alkaryl, and heterocyclic groups; and $x$ is a whole number selected from 1 and 2.

8. A fatty material normally tending to become rancid and containing, as an inhibitor against development of rancidity, an organic sulfur compound represented by the formula



wherein each of $R^1$ to $R^7$ is separately and independently selected from the members of the group consisting of hydrogen, alkyl, alkenyl, cycloalkyl, cycloalkalkyl, aryl, alkaryl groups and a heterocyclic group; $R^8$ represents a member of the group consisting of alkyl, alkenyl, cycloalkyl, cycloalkalkyl, aryl, alkaryl, and heterocyclic groups; and $x$ is a whole number selected from 1 and 2.

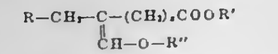
2,648,692

## PROCESS FOR MAKING ETHEREAL ESTERS FROM ALIPHATIC ALDEHYDE ESTERS AND ALIPHATIC ALCOHOLS

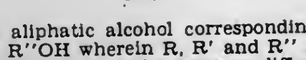
Joseph K. Mertzweiller, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 18, 1951, Serial No. 227,099
5 Claims. (Cl. 260—409)

1. A process for the preparation of an unsaturated aliphatic ethereal ester having the general formula



which comprises heating a mixture of a saturated aliphatic aldehyde ester corresponding to the general formula



with an aliphatic alcohol corresponding to the formula R''OH wherein R, R' and R'' are alkyl groups which can be the same or different, $x$ is an integer of from 2 to 10, and the total carbon atom number of the aliphatic ethereal ester is from 12 to 60, removing the water so formed as it is produced, and thereafter isolating the unsaturated ethereal ester.

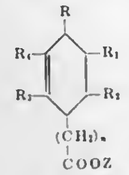
2,648,693

## POLYALKYLENE GLYCOL ESTERS OF ALKYLTETRAHYDROPHENYLALKANOIC ACIDS

Louis Schmerling, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application January 27, 1951, Serial No. 208,234
12 Claims. (Cl. 260—410.6)

1. A compound having the empirical structural formula:



wherein R, $R_1$, $R_2$, $R_3$ and $R_4$ are selected from the group consisting of hydrogen, a long chain alkyl substituent containing from 4 to about 15 carbon atoms per substituent, and an alkyl radical containing from 1 to 3 carbon atoms per radical, one and only one of said alkyl radicals being a long chain alkyl substituent, $n$ is equal to a whole number having a value of from 0 to 10, and Z is a polyoxyalkylene radical containing from 5 to about 25 oxyalkylene units per radical in which the alkylene group contains from 2 to 5 carbon atoms per alkylene group.

2,648,694

## HIGHER FATTY ACID SYNTHESIS FROM OXO BOTTOMS

Ralph Burgess Mason, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 16, 1950, Serial No. 185,325
6 Claims. (Cl. 260—413)

2. A method for the preparation of higher molecular weight aliphatic carboxylic acids which comprises carboxylating a mixture of oxygenated organic compounds having from about 10 to 20 carbon atoms per molecule, said mixture being obtained as a higher-boiling bottoms fraction by distillation of a crude $C_7$ Oxo alcohol, with carbon monoxide in the presence of boron trifluoride at temperatures of from 200°-300° F. and pressures of from 3,000 to 5,000 p. s. i. g., in the absence of water and recovering the higher molecular weight aliphatic carboxylic acids from the resulting reaction mixture.

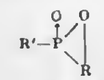
2,648,695

## INTRAMOLECULAR ESTERS OF HYDROXY OR AMINO PHOSPHINIC ACIDS

Curtis W. Smith, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 25, 1949, Serial No. 106,735
6 Claims. (Cl. 260—461)

5. A chemical compound having a structure represented by the structural formula



in which R' represents one of the group consisting of hydrogen and hydrocarbon and R represents a divalent saturated hydrocarbon radical having the two free valencies located on different carbon atoms which are separated from each other by not less than one and not more than two intervening carbon atoms, said free valencies being satisfied by union with the respective atoms designated in said structural formula by P and by O.



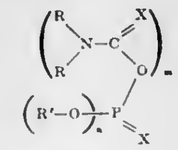
2,648,696

## MIXED ACID ANHYDRIDES AND PROCESS FOR PRODUCTION OF SAME

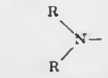
Richard R. Whetstone, Orinda, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application June 19, 1951, Serial No. 232,481
17 Claims. (Cl. 260—461)

7. A mixed acid anhydride having a structure represented by the formula



in which the group

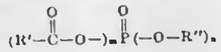


is the amino residue of an organic amine represented by



each group —O—R' signifies the residue of a member of the class consisting of alcohols and phenols denoted by R'OH, X represents an atom of a chalcogen element having an atomic number that is an integral multiple of 8, $m$ signifies a whole number having a value not less than 1 nor greater than 3, and $n=3-m$.

13. A mixed acid anhydride having a structure represented by the formula



in which



signifies the acyl residue of an aromatic carbocyclic monocarboxylic acid, —O—R'' signifies the residue of an aliphatic monohydric alcohol denoted by R''OH, $m$ signifies a whole number having a value not less than 1 nor greater than 3, and $n=3-m$.

2,648,697

## METHOD OF MAKING ORGANIC CARBONATE

Charles Adam Heiberger, Nitro, W. Va., assignor to Ohio-Apex, Inc., Nitro, W. Va., a corporation of West Virginia

No Drawing. Application April 10, 1951, Serial No. 220,361
6 Claims. (Cl. 260—463)

1. The process of making an organic carbonate including reacting at temperatures of about 50° to about 200° C. a mixture containing not more than about 2% by weight of free water and consisting essentially of carbonate of sodium, a catalyst and a compound of general formula



wherein Y represents a group selected from the class consisting of hydrogen, chlorine and the methyl group; said catalyst being selected from the class consisting of triethanol amine, substituted urea compounds of general formula $R_2NCONR'_2$, substituted morpholines of general formula $OC_4H_8NR$, morpholinium halides of general formula $OC_4H_8NRR''X$, and amines and ammonium compounds of general formula

$R_2R''N$, $R_2R''_2NX$, $R_2R''HNX$, $R_2R''HNOOCR'$ $R_2R''NOR'$ and $R_2R''HNOSO_2OH$

wherein X represents a halogen, R represents an unsubstituted alkyl group having less than 5 carbon atoms, R' represents a group selected from the class consisting of hydrogen and unsubstituted alkyl groups of less than 5 carbon atoms, and R'' represents a group selected from the class consisting of unsubstituted alkyl groups of less than 19 carbon atoms and substituted ethyl, substituted propyl and ring substituted benzyl groups, wherein one hydrogen is replaced by a group selected from the class consisting of OH and $NR'_2$, substituted alkyl groups of less than 19 carbon atoms, no more than 6 of which are ring bound carbons, wherein hydrogen is replaced by a group selected from the class consisting of the substituent groups phenyl, phenoxy, alkenyl, alkenyloxy, alkyl, alkoxy, halogen substituted phenyl and halogen substituted phenoxy, and any of said substituent groups wherein a hydrogen thereof is replaced by another of said substituent groups, the halogen contained in said halogen substituted groups being of atomic number greater than 9 and replacing less than 3 hydrogens of said group.

2,648,698

## DESENSITIZED LIQUID EXPLOSIVES

Ralph F. Preckel, Cumberland, Md., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 29, 1949, Serial No. 107,642
22 Claims. (Cl. 260—467)

13. As a new composition of matter which can be safely transported and stored, a solution comprising at least one normally highly sensitive, substantially water-insoluble, explosive, liquid nitric ester and as a desensitizing agent, a substantially nonvolatile liquid compound having at least 3 carbon atoms which is soluble at room temperature in both water and explosive, liquid nitric esters and has the structural formula

$$X—O—(R—O)_n—Y$$

in which R is a member of the class consisting of alkylene, ketoalkylene and hydroxyalkylene groups having from 2 to 6 carbon atoms; X and Y may be different and are members of the class consisting of alkyl, ketoalkyl, hydroxyalkyl, acyl and oxysubstituted acyl groups, and hydrogen; and $n$ is an integer from 1 to 10; the amount of desensitizing agent being such that the solution is characterized by a sensitivity equal to that of a solution of from 25–35% of the desensitizing agent in nitroglycerin.

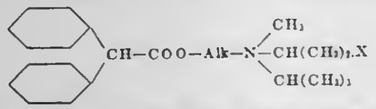
2,648,699

## QUATERNARY AMMONIUM SALTS OF DIISOPROPYLAMINOALKYL ESTERS OF DIPHENYLACETIC ACID

Richard A. Robinson, Morton Grove, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application February 24, 1950, Serial No. 146,147
3 Claims. (Cl. 260—469)

1. The compounds of the structural formula



wherein Alk is an alkylene radical and wherein X is one equivalent of an anion.

2,648,700

## 2-METHYL - 2,7 - DIHYDROXY-OCTAHYDRO-PHENANTHRENE-1-PROPIONIC ACID AND DERIVATIVES THEREOF

Robert P. Jacobsen, Shrewsbury, and Gregory Pincus, Worcester, Mass., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Original application November 2, 1946, Serial No. 707,536. Divided and this application March 1, 1949, Serial No. 79,108
11 Claims. (Cl. 260—473)

1. A member of the class consisting of the 2-methyl-2,7-dihydroxy-1,2,3,4,4a,9,10,10a - octahydrophenanthrene-1-propionic acid produced by the oxidation of a lower alkanoic acid ester of estrone with hydrogen peroxide in an acid medium followed by hydrolysis with alkali and acidification, said acid melting at about 225° C. with effervescence, and alkali metal salts, lower alkyl esters, and lower alkyl ethers of said acid, said compound being further characterized by exhibiting no more than approximately 1/100 of the estrogenic activity of estrone and by inhibiting the secretion of gonadotrophin by the pituitary gland.

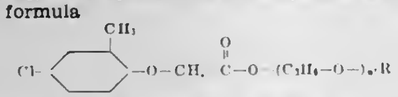
2,648,701

## ESTERS OF 4-CHLORO-o-TOLOXYACETIC ACID

Louis E. Begin, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application September 18, 1951, Serial No. 247,190
5 Claims. (Cl. 260—473)

1. An ester of 4-chloro-o-toloxyacetic acid of the formula



wherein $n$ is an integer not greater than 3, and R represents a member of the group consisting of alkyl and phenyl.

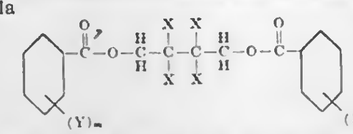
2,648,702

## 2,2,3,3,-TETRAHALO-1,4-BUTANEDIOL-DIBENZOATES

Oliver De Garmo, St. Louis, and Ferdinand B. Zienty, Brentwood, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

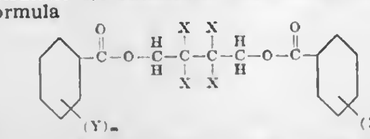
No Drawing. Application September 28, 1951, Serial No. 248,882
14 Claims. (Cl. 260—478)

1. As new chemical compounds, 2,2,3,3-tetrahalo-1,4-butanediol-dibenzoates having the formula

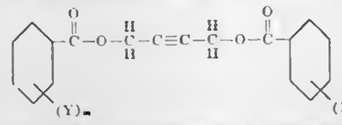


wherein X is a member of the group consisting of chlorine and bromine, wherein Y and Z are members of the group consisting of chlorine, bromine and iodine and wherein $m$ and $n$ represent an integer from 0 to 5 inclusive.

8. A process for the preparation of 2,2,3,3-tetrahalo-1,4-butanediol-dibenzoates having the formula



wherein X is a member of the group consisting of chlorine and bromine, wherein Y and Z are members of the group consisting of chlorine, bromine and iodine and wherein $m$ and $n$ represent an integer from 0 to 5 inclusive, which comprises halogenating with a member of the group consisting of chlorine and bromine, a 2-butyne-1,4-diol-dibenzoate having the formula



wherein Y and Z represent a halogen selected from the group consisting of chlorine, bromine and iodine and wherein $m$ and $n$ are integers from 0 to 5 inclusive.

2,648,703

## 3-ETHOXYPROPYL 3-ETHOXYPROPIONATE

Harry A. Stansbury, Jr., and Raymond W. McNamee, Charleston, W. Va., assignors to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application September 27, 1951, Serial No. 248,641
3 Claims. (Cl. 260—484)

1. A process of making 3-ethoxypropyl 3-ethoxypropionate which consists in reacting 3-ethoxypropionaldehyde in the presence of aluminum isopropoxide as catalyst at a temperature of −10° to 80° C.

2,648,704

## PROCESS OF TREATING PROTEIN HYDROLYSIS LIQUOR

Tetsuwo Ogawa and Mei Ohno, Kawasaki, Japan

No Drawing. Application August 22, 1950, Serial No. 180,914. In Japan August 22, 1949
1 Claim. (Cl. 260—529)

Process of treating protein hydrolysate, comprising hydrolyzing vegetable protein by heating with hydrochloric acid to form a solution, neutralizing the solution to pH 3.0 to 3.5 by addition of alkali, filtering off huminous substance and concentrating the filtrate, adding a water-insoluble organic solvent selected from the group consisting of amyl acetate and ether and capable of readily dissolving levulinic acid to separate the solution into two layers, and recovering levulinic acid from the upper layer of said solution while obtaining glutamic acid from the lower layer.



2,648,705

## REACTION PRODUCTS OF ORGANIC SULFOXIDES AND HYDRAZOIC ACID

Laszlo Reiner, Bloomfield, and Fernanda Fiordalisi, née Fernanda Misani, Newark, N. J., assignors to Wallace & Tiernan Company, Inc., a corporation of New Jersey

No Drawing. Application June 6, 1950, Serial No. 166,534
7 Claims. (Cl. 260—534)

7. A process for preparing organic sulphoximines of the formula RR'S(NH)O, wherein R and R' are members of the group consisting of hydrocarbon and carboxyalkyl, which comprises reacting the corresponding sulfoxide of the formula RR'SO, wherein R and R' are as defined above, with hydrazoic acid in the presence of an acidic catalyst and an inert organic solvent.

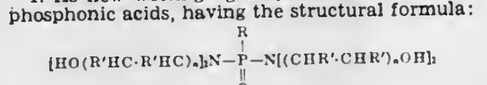
2,648,706

## AMIDES OF ALKANE PHOSPHONIC ACIDS

Allen H. Lewis, Berkeley, and Richard D. Stayner, Albany, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application September 29, 1950, Serial No. 187,679
6 Claims. (Cl. 260—551)

1. As new wetting agents, diamides of alkane phosphonic acids, having the structural formula:



wherein R is a long-chain alkyl radical having from 10 to 20 carbon atoms, R' is a radical from the group consisting of hydrogen and methyl radicals and N is an integer equal from 1 to 2.

2,648,707

## N-β-NITRAMINOETHYL-N'-ARYL-N''-NITROGUANIDINES

Arthur F. McKay, Ottawa, Ontario, Canada, assignor to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence, Ottawa, Ontario, Canada

No Drawing. Application May 19, 1952, Serial No. 288,769
7 Claims. (Cl. 260—551)

1. As a new composition of matter, a compound of the general formula:



wherein R is a substituent selected from the group consisting of hydrogen, halogens and lower alkyl, lower alkoxy, hydroxy and acetamido groups.

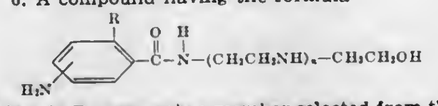
2,648,708

## BENZAMIDE DERIVATIVES

Norbert Steiger, Nutley, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 1, 1951, Serial No. 224,067
6 Claims. (Cl. 260—558)

6. A compound having the formula



wherein R represents a member selected from the group consisting of H and Cl, and $n$ represents a small integer.

2,648,709

## METHYL-CHLORPROPYL FORMAMIDE

Meyer Sletzinger, Forest Hills, N. Y., and Max Tishler, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Original application July 2, 1948, Serial No. 36,803. Divided and this application January 31, 1951, Serial No. 208,841
1 Claim. (Cl. 260—561)

1-Methylformamido-2-chloropropane.

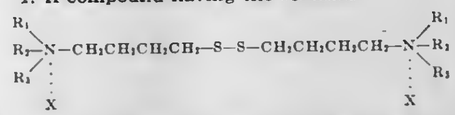
2,648,710

## BIS-QUATERNARY SALTS OF 1:10-BIS-(DIALKYLAMINO)-5:6-DITHIA-DECANE

Alexander Lang Morrison and Kenneth John Maynard Andrews, Welwyn Garden City, England, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application September 19, 1951, Serial No. 247,383. In Great Britain September 22, 1950
2 Claims. (Cl. 260—567.6)

1. A compound having the formula



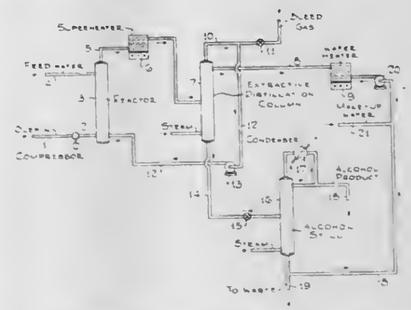
wherein $R_1$, $R_2$ and $R_3$ each represents an alkyl radical having not more than two carbon atoms, and X represents an anion.

2,648,711

## RECOVERY OF ALCOHOLS FROM DIRECT HYDRATION OF OLEFINS

E. Wendell Carrier, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 19, 1949, Serial No. 105,566
8 Claims. (Cl. 260—641)



1. A process for the production of an ether-free saturated monohydric alcohol by the direct hydration of an olefin which comprises reacting the olefin with water vapor in a reaction zone at a temperature of 150° C. to 375° C. and at a pressure in the range of 500 p. s. i. g. to 3000 p. s. i. g in the presence of an acid catalyst, removing from the reaction zone a gaseous product comprising alcohol, ether and unreacted olefins, passing the gaseous product without reduction in temperature and pressure to an intermediate point of an extractive distillation zone, introduc-

ing sufficient water to the extractive distillation zone at a point substantially above the gaseous product feed point to maintain an internal liquid reflux having a water content of 65—99.9 mol per cent below the point of addition of the water, distilling from the gaseous product under substantially the same temperature and pressure conditions of the hydration reaction a vaporous mixture comprising ether, alcohol and unreacted olefins which flows countercurrent to the descending aqueous reflux, and withdrawing an aqueous solution of alcohol substantially free of ether from a lower portion of the extractive distillation zone.

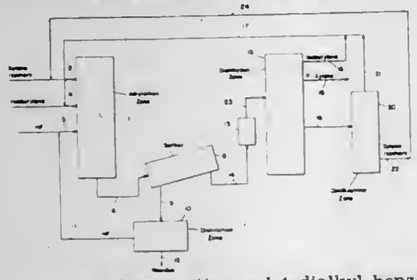
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**2,648,712**

## SEPARATION OF ISOMERIC AROMATIC COMPOUNDS

**Abraham Schneider, Philadelphia, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**

**Application March 22, 1951, Serial No. 216,895**
**16 Claims. (Cl. 260—674)**



1. Process of separating a 1,4-dialkyl benzene from an admixture thereof with at least 1 isomer including its monoalkyl isomer which comprises subjecting said admixture in liquid phase to alkylating conditions in contact with an alkylation catalyst and a quantity of an alkylating agent having at least 1 tertiary carbon atom per molecule so that the mole ratio of said alkylating agent to said isomers is at least 1, whereby said isomers are selectively alkylated with said alkylating agent, and separating said 1,4-dialkyl benzene from the reaction mixture.

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**2,648,713**

## SEPARATION OF ISOMERIC AROMATIC COMPOUNDS

**Abraham Schneider, Philadelphia, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**

**No Drawing. Application March 22, 1951, Serial No. 217,060**
**14 Claims. (Cl. 260—674)**

1. Process of separating a 1,2-dialkyl benzene from an admixture thereof with a 1,3-dialkyl benzene which is an isomer of said 1,2-dialkyl benzene which comprises subjecting said admixture in liquid phase to alkylating conditions in contact with an alkylation catalyst and a quantity of an alkylating agent having at least 1 tertiary carbon atom per molecule so that said 1,2-dialkyl benzene is substantially alkylated and said 1,3-dialkyl benzene remains substantially unalkylated, and separating said alkylated 1,2-dialkyl benzene from the reaction mixture.

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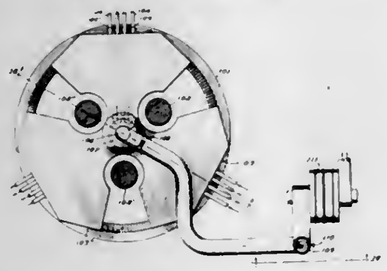
# ELECTRICAL

**2,648,714**

## HOOD FOR ELECTRIC FURNACE

**Audley O. Williams and Walter G. McBurney, Niagara Falls, Ontario, Canada, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**Application April 1, 1950, Serial No. 153,398**
**10 Claims. (Cl. 13—23)**



1. An interelectrode hood adapted to seat freely on a fume duct of an electric furnace for the preparation of calcium carbide, said hood comprising an upper surface with downwardly extending sides containing paired assemblies of spaced heat resistant pipes, said assemblies being electrically insulated from each other and being adapted to circulate a cooling medium and being substantially covered with a refractory material; the hood sides extending downward far enough that when the hood is in place on the normally operated furnace, the hood sides are immersed in the furnace charge, whereby a vapor collection zone is provided within the hood.

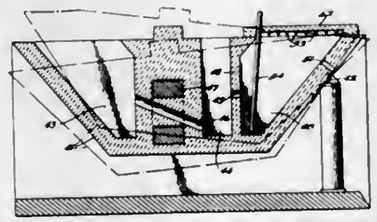
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**2,648,715**

## FURNACE FOR MOLTEN METAL

**August W. Lillienberg, Chicago, Ill., assignor to Lindberg Engineering Company, Chicago, Ill., a corporation of Illinois**

**Application June 6, 1950, Serial No. 166,505**
**9 Claims. (Cl. 13—29)**



1. A furnace for molten metal comprising horizontally spaced melting and holding chambers to receive molten metal, channels connecting the chambers to conduct metal therebetween, means to establish a time varying magnetic flux linking the channels to heat metal in the channels and chambers to melt the metal, means defining a discharge chamber adjacent to the holding chamber and isolated from the melting chamber, there being a restricted passage between the holding and discharge chambers above the bottoms thereof and below the normal metal level therein, the discharge chamber being remote from the heating means whereby the metal therein will be heated by the heating means only through the metal in the holding chamber.

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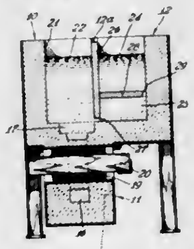


**2,648,716**

## INDUCTION FURNACE

**Ralph L. Lindner, Cleveland, and Tyler K. Hayes, Cleveland Heights, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**

**Application November 10, 1949, Serial No. 126,672**
**5 Claims. (Cl. 13—29)**



1. In an induction furnace, a refractory lined casing, a vertical refractory wall extending through said casing dividing its inner space into a hearth and a lateral chamber, a charging opening in said casing above said hearth, a horizontal refractory wall extending through said lateral chamber and dividing said lateral chamber into an upper lateral chamber and a lower lateral chamber, a ladling opening in said casing above said upper lateral chamber, passages in said walls connecting said hearth and said lower lateral chamber and connecting said lower lateral chamber and said upper lateral chamber, and an inductor unit connected to said casing and providing melting channels communicating with said hearth.

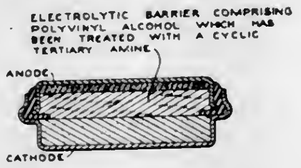
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**2,648,717**

## ELECTROLYTIC MEMBRANE

**Sidney D. Ross, Williamstown, Moushy Markarian, North Adams, and Walter W. Schroeder, Jr., Williamstown, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts**

**Application June 26, 1951, Serial No. 233,708**
**7 Claims. (Cl. 136—107)**




3. An electric cell which comprises an anode, an electrolyte, and electrolytic barrier comprising polyvinyl alcohol which has been treated with a cyclic tertiary amine, and a cathode.

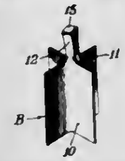
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**2,648,718**

## ANODE FOR PRIMARY GALVANIC CELL

**Roy Carl Sundeen, Lakewood, Ohio, assignor to Union Carbide and Carbon Corporation, a corporation of New York**

**Application February 23, 1950, Serial No. 145,723**
**4 Claims. (Cl. 136—126)**



1. A method of making a metal anode for a primary galvanic cell which comprises preparing a unitary blank comprising a plurality of plates spaced apart from each other and connected by a yoke and bending said blank in said yoke about axes perpendicular to the longitudinal axes of said plates and about the longitudinal axis of said yoke thus providing a plurality of substantially uniformly spaced radial vanes connected by said yoke.

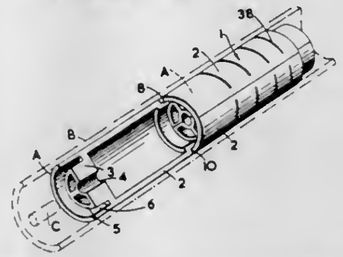
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**2,648,719**

## CONCENTRIC ELECTRIC CABLE WITH INTERLOCKING TUBULAR SUPPORTS

**Esmond Wassell Smith, Beechcroft, Chislehurst, and Frederick Jones, Sidcup, England, assignors to Telegraph Construction and Maintenance Company Limited, London, England**

**Application October 20, 1947, Serial No. 780,940**
**In Great Britain October 21, 1946**
**9 Claims. (Cl. 174—28)**



4. An electric cable of the character described comprising an inner conductor, an outer conductor coaxial therewith, a substantially continuous dielectric support for said outer conductor, said support comprising a plurality of tubular elements interlocked at their ends by complementary male tongues and female recesses which extend parallel to the common axis thereof, said recesses each having at least two spaced straight walls extending parallel to said common axis of said tubular elements and said tongues each having at least two spaced straight faces extending parallel to said common axis of said tubular elements respectively engaging the two spaced recess walls of an adjacent tubular element to provide a joint between continguous ends of adjacent tubular elements which resists substantial relative angular misalignment of adjacent tubular elements. outermost surfaces of contiguous end portions of adjacent tubular elements being of substantially the same radius whereby said dielectric support is substantially uninterruptedly in the form of a continuous wall of uniform radius throughout its length, and means spacing said support from said inner conductor.

2,648,720

## OPEN WIRE TRANSMISSION LINE

Donald C. Alexander, Worcester, Mass., assignor to Surprenant Mfg. Co., Boston, Mass.

Application November 18, 1948, Serial No. 60,720
2 Claims. (Cl. 174—34)



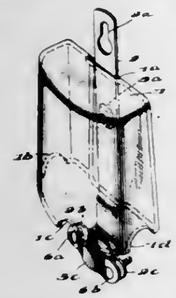
1. In an open wire electric transmission line, a central cylindrical tubular core made of polyethylene and having an outer surface of uninterrupted circular cross sectional form, a pair of electric conductor wires extending helically around the outside of said core and having the same lay and engaging said uninterrupted surface of the core, and an inclosing sheath made of polyethylene surrounding the core and wires and being in engagement with the core at points between the wires and effective due to engagement with said outer surface of the core to hold the wires in such position that those parts of the wires cut by a plane transverse of and perpendicular to the axis of the line will be spaced substantially 180 degrees from each other around the core, those parts of the sheath engaging the wires being spaced from the core to permit cutting thereof adjacent to the wires at points spaced from the core to enable the wires to be drawn away from the core and through the sheath.

2,648,721

## SERVICE CABLE ENTRANCE CAP

Albert J. Wayman, East Palestine, Ohio

Application October 10, 1949, Serial No. 120,447
3 Claims. (Cl. 174—82)



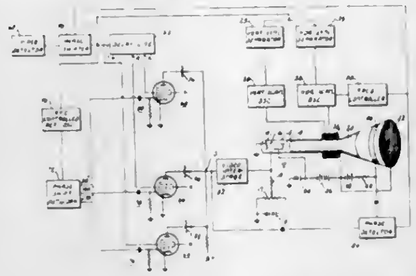
1. A service entrance cable cap comprising an inverted cup-shaped member formed of insulating material and having a flat rear face, a mounting strap of uniform width and thickness arranged in face-to-face contact with the rear face of said cup-shaped member and extending above and below said cup-shaped member, said strap having an aperture formed therein near the upper end thereof above said cup member, means including a clamping screw for securing the rear wall of said cup-shaped member to said strap, a forwardly projecting off-set formed in said strap below the lower edge of said cup-shaped member, two transversely disposed ears formed on the off-set portion of said strap below said cup member, said ears and the lower end of said strap forming one-half of a cable clamp, and a clamping member mounted transversely of said mounting strap by two screws passing through said clamping member and threaded into said ears.

2,648,722

## ELECTRICAL SYSTEM FOR ALTERING PHASE DISPLACEMENT OF SEQUENTIAL-TYPE COLOR SIGNALS

William E. Bradley, New Hope, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application February 15, 1951, Serial No. 211,170
15 Claims. (Cl. 178—5.4)



11. An electrical system for producing a color television image comprising, a cathode-ray tube having a source of an electron beam, a control electrode for varying the intensity of said beam, a beam intercepting structure having portions thereof spaced apart, each of said portions comprising a plurality of stripes of fluorescent material each stripe producing light of a different color when said beam impinges thereon and said beam intercepting structure having intermediate said first portions second portions comprising a material having a given response characteristic when said electron beam impinges thereon, and means to produce an output voltage indicative of the response characteristic of said second portions, the stripes of each of said first portions and the spacing between adjacent first portions defining a pattern of given geometrical distribution, means to periodically deflect said beam across said beam intercepting structure to thereby impinging said beam successively on said first and second portions, input means for a source of a first video wave having recurrent discrete portions thereof each indicative of the value of a given color component of an element of said image and having the said discrete portions arranged in substantially contiguous groups and at substantially uniform time intervals between successive discrete portions, a delay line system for deriving from said first video wave a plurality of waves having predetermined phase displacements relative to each other and having recurrent portions thereof indicative of the said value of said components arranged at substantially uniform time intervals, means to sample said derived waves in consecutive sequence at non-uniform time intervals arranged in spaced groups in accordance with a distribution corresponding to said geometrical distribution thereby to produce from said derived waves successively arranged intelligence components one from each of said derived waves, means to combine said successively arranged components to produce an output video wave having recurrent discrete portions thereof indicative of the value of each of said components occurring at time intervals arranged in spaced groups in accordance with a distribution corresponding to said geometrical distribution, means to apply said output video wave to said control electrode, and means responsive to said output voltage to control the impingement of said beam on a given stripe of said first portion in synchronism with the occurrence of the corresponding color component of said output video wave.

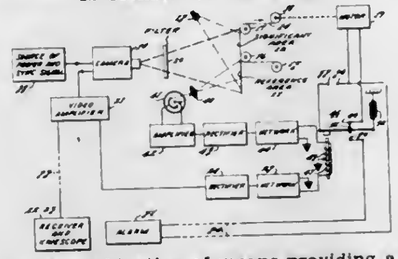


2,648,723

## INSPECTION SYSTEM

Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application December 30, 1948, Serial No. 68,115
12 Claims. (Cl. 178—6.8)



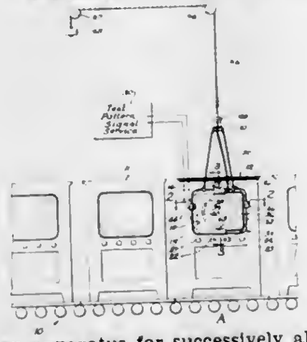
1. The combination of means providing a reference area having a predetermined energy radiation characteristic and a significant area having an energy radiating characteristic which normally bears a specific ratio relation to said predetermined characteristic, means including at least one television camera arranged to produce an alternating current which changes in response to change in said relation, a wave selective network responsive to the rate of said change in said current for producing a potential dependent on a predetermined departure from said relation, and means responsive to said potential for indicating said departure.

2,648,724

## METHOD AND APPARATUS FOR VISUAL ALIGNMENT OF TELEVISION RECEIVERS

Kurt Enslein, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York

Application April 14, 1951, Serial No. 221,032
4 Claims. (Cl. 178—7.5)



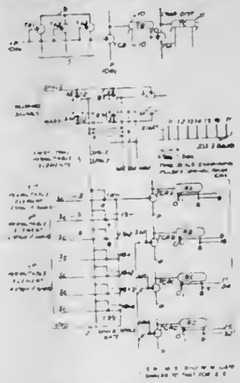

2. In an apparatus for successively aligning a plurality of television receivers for reproduction of a test pattern within predetermined limits, the combination of an alignment position; means for moving each of said television receivers in turn past said alignment position; a test pattern source adapted to be connected to the input terminals of a receiver, the test pattern of said source including a test figure of predetermined configuration; a transparent mask adapted to be placed over the picture window of a receiver; means on said mask defining an alignment zone of a configuration substantially the same as said test figure, said alignment zone defining the permissible limits of a test figure reproduced on a receiver in said alignment position; means movably supporting said mask at said alignment position; means for biasing said mask away from the picture window of a receiver at said alignment position, whereby said mask may be moved against said biasing means placed against the picture window of a receiver in said alignment position, whereby the horizontal and vertical size and linearity controls of a receiver may be adjusted so that the test figure reproduced on a receiver lies within the alignment zone defined on said mask.

2,648,725

## ELECTRICAL DECODING CIRCUITS

Esmond Philip Goodwin Wright and Donald Adams Weir, London, England, assignors to Standard Telephone and Cables Limited, London, England, a British company

Application November 25, 1950, Serial No. 197,554
In Great Britain December 2, 1949
12 Claims. (Cl. 178—88)



1. Apparatus for decoding characters in printing telegraph code comprising a flip flop pair of cold cathode gaseous discharge tubes for detecting the condition (mark or space) of each element of a character, a pair of flip flop pairs for storing the conditions of the first two permutable elements of the character, four multi-gap cold cathode gaseous discharge tubes, gate circuits under control of said pair of flip flop pairs adapted to select that multi-gap tube which corresponds to the condition of the first two permutable elements of the character, means responsive to selection of one particular multi-gap tube to cause the selected multi-gap tube to step from its rest position to its first position, means for assigning to each of the last three permutable elements of the combination a numerical value characteristic thereof, means for causing said selected multi-gap tube to step in response to each permutable element whose numerical value exceeds zero, and means responsive to the final position of the discharge in said multi-gap tube to indicate the identity of said character.

2,648,726

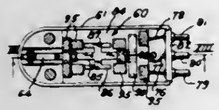
## CONTROL DEVICE FOR ELECTRICAL CIRCUITS

Harry C. Warner, San Francisco, Calif.

Application September 2, 1949, Serial No. 113,753
21 Claims. (Cl. 179—100.41)

1. In a control device for electric circuits, the combination of a body member of insulating

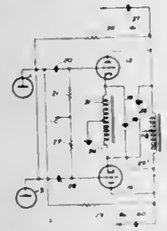
material having three chambers, said chambers including means for retaining a current conducting fluid, an electrode in each of said chambers, two variable-area orifices having means for connecting one of said chambers to each of the other two, whereby the resistance between



the electrodes is varied as the size of the orifices varies; and means for varying said orifices in tandem, so that one is widened to a greater area as the other is narrowed to a smaller area, and so that an increase in resistance through one orifice is balanced by a decrease in resistance through the other orifice.

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**2,648,727**
**PUSH-PULL WIDE BAND AMPLIFIER**
**Ronald J. Rockwell, Cincinnati, Ohio, assignor to Crosley Broadcasting Corporation, Cincinnati, Ohio, a corporation of Ohio**
**Application October 4, 1949, Serial No. 119,401**
**5 Claims. (Cl. 179—171)**

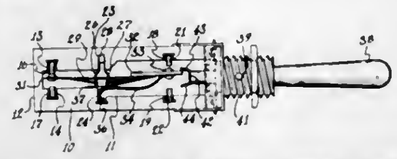


1. In combination, a wave signal amplifier comprising a pair of push-pull connected amplifier tubes each having a cathode circuit, a control electrode, and an anode circuit, a common inductive reactance in said anode circuits and connected directly between the anodes, said anodes providing output terminals, means for capacitively coupling the cathode of one of said tubes to the anode of the other tube, means for capacitively coupling the cathode of said other tube to the anode of said one tube, a driving circuit comprising a second pair of push-pull connected tubes each having an anode, resistance-capacitance coupling means for coupling the anodes of said driver tubes to the control electrodes of said amplifier tubes, a source of space current having its positive terminal connected to said reactance to provide anode voltage for the amplifier tubes, and resistors directly cross-connecting the anodes of the amplifier tubes to the anodes of the driver tubes, so that said space-current source provides anode voltage for the driver tubes.

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**2,648,728**
**MOMENTARY SWITCH**
**Dale M. Bollhoefer, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**
**Application August 26, 1950, Serial No. 181,633**
**6 Claims. (Cl. 200—6)**

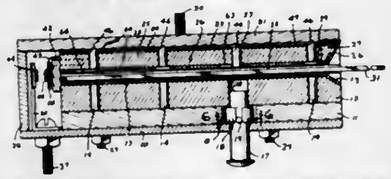
1. A momentary switch which has a remembering circuit comprising, a body portion formed with a central longitudinal opening, a first pair of terminals mounted adjacent one end of said body, a second pair of terminals mounted adjacent the opposite end, a third pair of terminals mounted intermediate said first and second pair of terminals, a throw arm pivotally supported by the opposite end of said body member, a flexible member engaged by the inner end of said throw arm and having a first contact movable between the sec-



ond pair of terminals, a second contact connected to the opposite end of said flexible member and movable between the first pair of terminals, spring compression members attached to one of said third terminals and attached intermediate the ends of said flexible member, said first contact insulated from said flexible member and a conducting member connecting said insulated contact with the other of said intermediate terminals.

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**2,648,729**
**LOCK RELEASE OPERATED SWITCH**
**Maurice J. Noregaard, North Hollywood, Calif.**
**Application August 9, 1950, Serial No. 178,504**
**18 Claims. (Cl. 200—45)**



17. A switch comprising, in combination, a body including a locking pin section, locking members in the locking pin section having arranged therein cooperating pairs of openings of different sizes, a locking pin member reciprocative longitudinally with respect to the locking members, and a plurality of magnetic locking pin means disposed for transverse movement in the locking pin member and arranged in the pattern of the openings in the locking members, the magnetic locking pin means being adapted upon activation by a magnetic force to be drawn out of the locking member openings in which they are normally inserted.

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**2,648,730**
**SNAP SWITCH**
**Roger J. Wellworth, Milwaukee, Wis., assignor of forty per cent to Harold N. Vilar, ten per cent to Roman N. Janusz, and ten per cent to William J. Wellworth, all of Milwaukee, Wis.**
**Application August 18, 1950, Serial No. 180,137**
**5 Claims. (Cl. 200—67)**



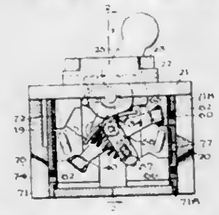
1. In an electric switch, an insulating switch housing having a switch chamber therein, sta-



tionary spaced contacts in said chamber, an inner contact bowed leaf spring in said chamber, an outer similar control bowed leaf spring in said chamber, the end walls of said chamber having spaced notches receiving the ends of said springs, said inner contact leaf spring having contact arms engageable with the stationary contacts in one position, said arms having inwardly extending legs disposed over the outer control spring, a pivoted trip lever carried by the housing engaging the outer control spring for moving said spring inwardly, and a loop embracing said control leaf spring carried by said lever for bowing the control spring outwardly upon movement of the lever in one direction, said legs on said contact arms being engaged by the control spring during outward movement of the control spring for snapping the contact spring to an outward bowed position.

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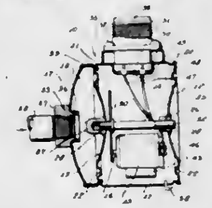
**2,648,731**
**QUIET SNAP SWITCH**
**Victor R. Despard, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York**
**Application May 29, 1950, Serial No. 165,005**
**11 Claims. (Cl. 200—67)**



1. In a switch of the snap type in combination, a housing, a contact actuating yoke having pivots rockable in said housing, a handle-operator having trunnions journalled in said housing, a circular resilient cushion disc rotatably mounted on one of said trunnions and a rocker plate extending transversely on said yoke between the axes of the pivots and trunnions and arranged to progressively engage said disc toward each end of the yoke stroke to quietly stop its movement.

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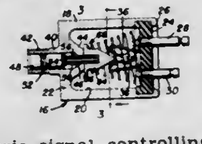
**2,648,732**
**HERMETICALLY SEALED PRESSURE SWITCH**
**George A. Starbird, Agoura, Calif., assignor to Meletron Corporation, a corporation of California**
**Application April 16, 1951, Serial No. 221,259**
**3 Claims. (Cl. 200—81.5)**



1. A switch of the class described which includes: a rigid housing having an open end; an outer flexible diaphragm closing said housing and sealed therewith; an inner flexible diaphragm mounted within said housing parallel to said outer diaphragm and having an area substantially equal to that of said outer diaphragm, said inner diaphragm dividing said housing into a first sealed chamber closed by said inner and outer diaphragms and a second sealed chamber between said inner diaphragm and the closed end of said housing, said second chamber being adapted to be connected to a selected fluid pressure source; a linking shaft disposed axially through said first chamber and extending outwardly through said outer diaphragm, said shaft being threadedly connected to said inner and outer diaphragms for axial adjustment therealong while holding said diaphragms spaced a constant distance apart for unitary parallel movement to maintain a substantially constant volume in said first chamber; switch means mounted in said first chamber and externally connectible through the wall of said housing, said switch means having an operating member operable to open and close switch contacts upon axial movement thereof; and a generally circular operating plate secured to said linking shaft adjacent said switch operating member to move said member in response to movement of said diaphragms, said plate rotating with said shaft as the latter is turned to adjust the axial position of said plate, whereby the operating range of said switch may be adjusted, and said plate at all times presents an area to said operating member.

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**2,648,733**
**FLUID PRESSURE CONTROLLED SIGNAL SWITCH**
**William P. Billings, West Asheville, N. C.**
**Application December 5, 1951, Serial No. 259,976**
**4 Claims. (Cl. 200—82)**



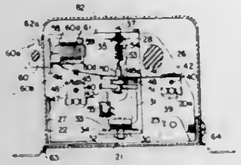
1. An electric signal controlling switch comprising a casing open at one end, closed at the opposite end, exteriorly flat faced and having a switch chamber of cylindrical form, the closed end of said casing having an axially centered integral cylinder, a closure of insulation material mounted in and closing the otherwise open end of said casing, said closure being provided with fixed contact means and complemental terminal post means, a relatively movable contact member in said chamber, said member having a marginal flange, a coil spring in said chamber bearing at one against said flange and at its opposite end against said closure, an oil pressure responsive plunger reciprocable in said cylinder, said plunger being provided with a packing ring cooperable with the wall of the cylinder, the closed end of said casing having a restricted guide opening, and a portion of said plunger being slidable in said guide opening and being operatively connected with said movable contact member.

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**2,648,734**
**SAFETY DEVICE**
**Robert J. Kutzler, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware**
**Application May 31, 1950, Serial No. 165,310**
**9 Claims. (Cl. 200—87)**

1. In a safety device, the combination comprising a flexible switch arm having a first contact on a free end thereof and fixed at its other

end, a fixed second contact normally spaced from said first contact, condition responsive means normally spaced from an intermediate portion of said switch arm and operable to hold said intermediate portion when a predetermined condition exists and said intermediate portion has been moved into engagement therewith, and manually operable means normally biased away from said arm



but movable to engage the free end of said arm and to exert a force substantially along the longitudinal axis thereof to flex the intermediate portion of said arm laterally into engagement with said condition responsive means and thus bias said arm so as to cause said first contact to move against said second contact when the manually operable means is released from said arm.

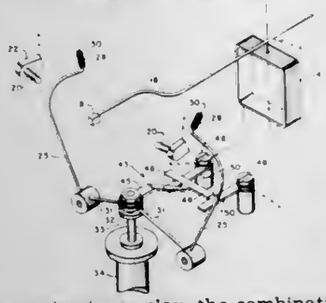
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**2,648,735**

## METER TYPE RELAY HAVING LEVERS FOR RESETTING ITS CONTACT ARM

**Emil B. Marshall, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**

**Application December 16, 1949, Serial No. 133,379**
**7 Claims. (Cl. 200—110)**



1. In a meter type relay, the combination of a coil movable in a magnetic field, a contact arm mounted for oscillatable movement with said coil, a magnetized contact mounted in the path of movement of said contact arm and engageable thereby, a resetting lever movable from a normally inoperative position to an operative position and engageable with said contact arm to separate the contact arm from said magnetized contact and restore it to a normal neutral position, means for actuating said resetting lever, switch means electrically connected to said coil, and means operable in timed relation with the movement of said resetting lever for actuating said switch means to short said coil during a predetermined interval of the movement of said lever.

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**2,648,736**

## AUTOMATIC CIRCUIT BREAKER

**Paul M. Christensen, West Orange, N. J., assignor to Federal Electric Products Company, Newark, N. J., a corporation**

**Application October 8, 1949, Serial No. 120,361**
**20 Claims. (Cl. 200—116)**

1. In an automatic circuit breaker having a casing, a stationary contact carried by said casing, a carrier guided for movement in said casing, a movable contact member operable by said carrier to engage and disengage said stationary contact, said movable contact member being free from fixed connection to said carrier and the latter having a part which slidably disposes said movable contact member on a casing portion and



holds the same against bodily movement in relation to the carrier in a direction parallel to the path of said movement of said carrier, and companion means on said carrier and on said casing for guiding said movable contact member for bodily movement toward and away from said stationary contact to engage and disengage the latter.

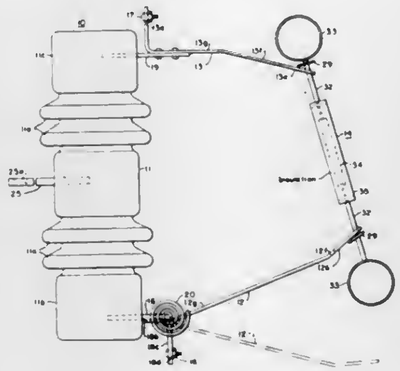
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**2,648,737**

## FUSE CUTOUT

**James M. Wallace and Andrew W. Edwards, East McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application June 23, 1949, Serial No. 100,788**
**3 Claims. (Cl. 200—117)**



1. An open fuse cutout comprising an electrical insulator, spaced electrically conductive contact arms mounted on said insulator and being bent to substantially approach each other toward their outer ends to maintain the bottoms of opposed integral hooks at the outer ends thereof inward for positively receiving and holding a fuse link, one of said arms being substantially fixed in position on the insulator, a terminal fixed on the insulator for the other arm, and said other arm being movably mounted at its inner end relative to said terminal for swinging away from the substantially fixed arm, and a spring urging movement of the latter arm away from said substantially fixed arm.

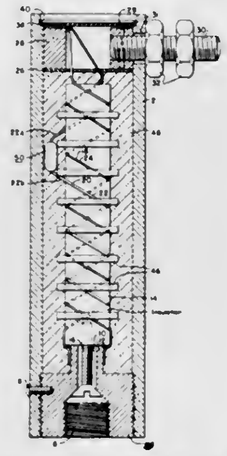


**2,648,738**

## INDICATING FUSE

**Harold H. Fahnoe, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application September 27, 1950, Serial No. 186,960**
**9 Claims. (Cl. 200—121)**



1. In a fuse, a closed tubular insulating fuse holder supporting spaced terminals and including a transparent wall, fusible means in said holder and connected between said terminals, overcurrent conductor means affording a path of higher electrical resistance across said terminals than said fusible means, and frangible container means for rupture on overcurrent through said overcurrent conductor means, said container being located in said holder closely adjacent said wall and having indicating material therein which is of a distinctive color and is disposed inside said holder in the vicinity of said wall for view through said transparent wall on rupture of said container.

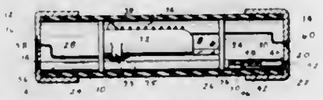
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**2,648,739**

## PROTECTOR FOR ELECTRIC CIRCUITS

**John C. Lebens, Jr., University City, Mo., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware**

**Application April 30, 1951, Serial No. 223,720**
**20 Claims. (Cl. 200—121)**



1. In an enclosed protector for electric circuits that has a casing, spaced terminals, and an indicator that is adapted to indicate the response of said protector for electric circuits to a predetermined electrical condition in the circuit that said protector for electric circuits protects, the improvement which comprises a current-carrying electrical conductor that is electrically connected in parallel relation with said protector for electric circuits, said electrical conductor being subject to fusing currents whenever said protector for electric circuits responds to said predetermined electrical condition in said circuit, said electrical conductor including telescoping elements, said elements being adapted to retract telescopically relative to each other and thereby maintain certain portions of said electrical conductor taut despite variations that may occur in the physical dimensions of said casing during storage and use, said telescoping elements being adapted to extend telescopically and permit one of said telescoping elements to project outwardly of said casing for said protector for electric circuits and serve as said indicator whenever said electrical conductor fuses.

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**2,648,740**

## FUSE HOLDER

**Clarence Willans Heath, Bleasby, England, assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois**

**Application February 5, 1952, Serial No. 269,969**
**In Great Britain February 26, 1951**
**1 Claim. (Cl. 200—128)**



A fuse assembly providing a holder of insulating material having a bore, a terminal member at one end of said holder, a contact member displaceably mounted within said bore, spring means in said bore normally urging said contact member away from said terminal member, a metal sleeve disposed in the bore of said holder adjacent to the end thereof away from said terminal member, said sleeve and holder having cooperating snap fastener means whereby said sleeve may be automatically attached to said holder, said sleeve having an integral wiring terminal, a detachable cap at the end of said holder having said sleeve, said cap having a metal cup-shaped element, said cup-shaped element having means for electrical engagement with the outer end of a fuse cartridge which cartridge is adapted to make electrical connection with said contact member when said cap is attached to said holder, and said cup-shaped member having means for fastener engagement with said sleeve to connect electrically said cap and sleeve and to hold said cap in removable assembly with said holder.

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**2,648,741**

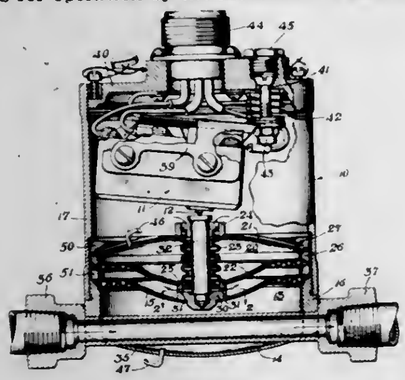
## PRESSURE OPERATED TEMPERATURE RESPONSIVE SWITCH

**George A. Starbird, Agoura, Calif., assignor to Meletron Corporation, Los Angeles, Calif., a corporation of California**

**Application June 9, 1950, Serial No. 167,193**
**10 Claims. (Cl. 200—140)**

1. A switch of the type described which includes: a first chamber having a movable wall, said chamber being evacuated and sealed; a second chamber having a movable wall, said second chamber being sealed, and having gas therein; a heat exchanger means within said second chamber for changing the temperature and thereby varying the pressure of said gas therein; mounting means supporting said first chamber and said second chamber generally adjacent each other so that both are subjected to the same ambient pressure; connecting means mechanically coupling said movable walls of said first and second chambers, respectively, so that the forces exerted by said walls oppose and counteract each other when the ambient pressure acting upon said chambers is changed; and switch means mechani-

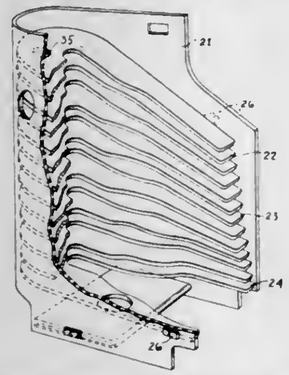
cally connected to at least one of said movable walls for operation by the movement of said wall



in response to variation of the pressure of the gas within said second chamber.

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**2,648,742**
**ARC CHUTE PLATE**
**William Harold Edmunds, Havertown, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application September 14, 1949, Serial No. 115,745**
**6 Claims. (Cl. 200—144)**

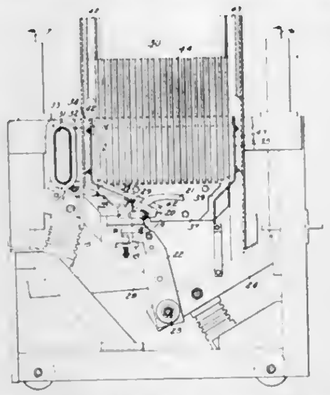


1. In an arc chute for a circuit breaker having a fixed and movable contact, a plurality of arc plates, each plate having a notch, the width of the notch of the plate closest to the fixed contact being greater than the width of any of the notches further removed from the fixed contact, and the width of the notch of each successive plate being progressively smaller from the plates closest to the stationary contact to the plate furthest therefrom, the inner edge of the plates being rounded to eliminate sharp edges on said plates.

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**2,648,743**
**EXHAUST PASSAGE AND TRAP MEANS COEXTENSIVE WITH ARC RUNNERS**
**Philip L. Taylor, Abington, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.**
**Application December 28, 1950, Serial No. 203,084**
**8 Claims. (Cl. 200—147)**

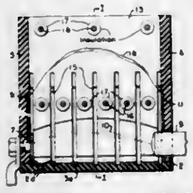
1. An electric circuit interrupter comprising a pair of relatively movable cooperating arcing contacts, means for separating said contacts to initiate and elongate an arc therebetween, an arc chute for receiving the arc at one end thereof, means for transferring the path of said arc from the region of arc initiation to a region within said chute, trap means arranged substantially coextensive with said transfer means for



reducing the free flow of products of arcing from said transfer means in the general direction of the arc path, and flue means surrounding said transfer means and said trap means over substantially their entire length for exhausting to atmosphere the hot gases stripped in part of said products of arcing.

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**2,648,744**
**CIRCUIT INTERRUPTER**
**Albert P. Strom and Thomas E. Browne, Jr., Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 30, 1950, Serial No. 152,862**
**19 Claims. (Cl. 200—149)**

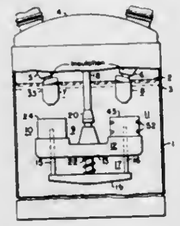


1. A circuit interrupter including a substantially enclosed arc chamber having a normally open vent opening, means for establishing an arc within the arc chamber, a plurality of spaced gas-evolving insulating strips disposed laterally of the arc adjacent the vent opening so that the arc is drawn transversely thereof immediately adjacent thereto, and the evolved gas passing out the vent opening and extinguishing the arc.

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**2,648,745**
**CIRCUIT INTERRUPTER**
**Winthrop M. Leeds, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 18, 1950, Serial No. 162,656**
**14 Claims. (Cl. 200—150)**

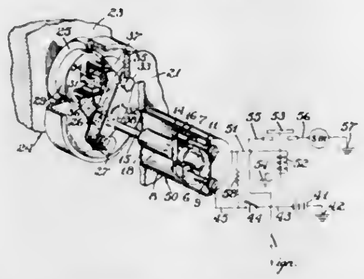
1. In a circuit interrupter of the liquid break type, a tank containing an arc extinguishing liquid, two terminal bushings extending into the tank, relatively stationary contact means disposed at the interior end of each terminal bushing, a movable arc extinguishing assemblage including a pressure-generating unit and an interrupting unit hydraulically interconnected by a conducting conduit means, movable contact means including a movable pressure-generating contact and a movable interrupting contact, a movable conducting cross-bar electrically and mechanically connecting the two movable con-



tacts, an operating rod fixed to the cross-bar to cause the actuation of the same, and a lost-motion connection between the movable contact means and the movable arc extinguishing assemblage so that during the initial portion of the opening operation only the movable contact means first moves and subsequently, after an appreciable delay, the arc-extinguishing assemblage moves therewith.

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**2,648,746**
**ENGINE-FUNCTION SWITCHING MECHANISM**
**John W. Dickey, Newfield, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware**
**Application May 31, 1949, Serial No. 96,347**
**3 Claims. (Cl. 200—153)**



1. In combination with a rotatable member of a power unit, a switch comprising a part moveable to two operative positions, yielding means urging said switch part to one operative position, and a connection for transmitting torque from said rotatable member to said switch part to move it away from said one operative position, said connection including a slip coupling comprising a drag member having a smooth surface bearing on a similar surface of said rotatable member and yielding means pressing said surfaces into frictional contact to transmit a substantially constant torque while slipping irrespective to the relative speed of its parts; and a viscous coupling comprising a driving member rigidly connected to said drag member, a driven member spaced from the driving member and a semi-solid slow-flowing adhesive material occupying the space between said driving and driven members.

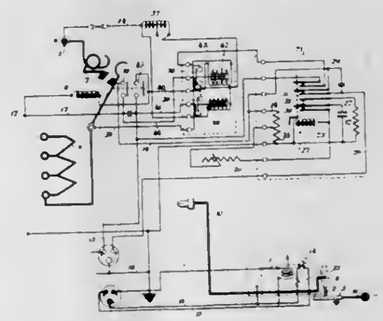


**2,648,747**
**ELECTRICAL CONTACT**
**Herbert C. Graves, Jr., Wilkinsburg, Pa., assignor to Gibson Electric Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**No Drawing. Application August 24, 1950, Serial No. 181,329**
**13 Claims. (Cl. 200—166)**

1. A contact comprising 20–60% of a basic current carrying material, 20–50% of a refractory element and 20–50% of a refractory carbide, the refractory element and the refractory carbide being in the form of a sintered slug, the pores thereof being substantially filled with said current carrying material.

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**2,648,748**
**ELECTRIC ARC STUD WELDING**
**Charles Anthony Sayer, London, England, assignor to Cyc-Arc Limited, London, England, a British company**
**Application April 28, 1950, Serial No. 158,708**
**In Great Britain December 14, 1948**
**8 Claims. (Cl. 219—4)**



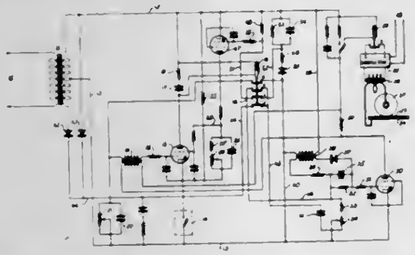
1. A method of welding studs to plates by electric arc welding, in which the stud and the plate are connected in the welding circuit as the electrodes between which the arc is to be formed, current of a limited value at full voltage is caused to flow from a source of supply of welding current in the welding circuit and between the stud and the plate while they are in contact, the stud is then separated from the plate the determined arcing distance while the current of limited value continues to flow, thereby forming an arc of low intensity, the current in the welding circuit is subsequently increased to full strength for the development of the arc into the full welding arc, and, after a determined interval, the stud is returned to the plate to effect the weld, the flow of current being continued for a further determined interval to complete the weld.

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**2,648,749**
**ELECTRONIC SEQUENCE CONTROL, PARTICULARLY FOR TRAVEL HEAD SEAM WELDERS**
**Joseph J. Riley and William S. Dustman, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio**
**Application January 31, 1952, Serial No. 269,246**
**7 Claims. (Cl. 219—4)**

5. In a control circuit for controlling operations of electric resistance welding apparatus of the type having electrodes and a weld contactor for controlling the flow of weld current to said electrodes; the combination of switching means

operative when energized to energize said contactor, means to energize said switching means including a gaseous discharge device, time constant means for deenergizing said switching means a predetermined time after energization thereof, said gaseous discharge device having a control electrode means therein, a source of power, a normally open initiating switch operative when closed to connect said discharge device to said source, time constant means connected to said



discharge device adapted to render the same conductive a predetermined time after the closing of said switch, means associated with said switching means and said discharge device operative upon deenergization of said switching means to cause said discharge device to be rendered non-conductive, and time constant means operative a predetermined time after termination of conduction in said discharge device to again render said device conducting.

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2,648,750

**METHOD OF MAKING A BRAKE BEAM**

**Loren L. Whitney, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**

**Application January 29, 1949, Serial No. 73,629**

**3 Claims. (Cl. 219—10)**



3. A method of welding a brake beam tension member to brake head and compression members, at least one of which defines an elongated cavity with an edge of said tension member, said method comprising positioning an electrode in said cavity, then closing an electrical welding circuit through said electrode and depositing a layer of weld metal in the cavity on top of said edge by passing the electrode lengthwise of the cavity to approximately the inboard end thereof, then holding the electrode approximately stationary at said inboard end of said cavity for a period of time of the order of at least three seconds to form a puddle of weld metal at said inboard end of said cavity, then breaking said circuit and moving the electrode outboardly in said cavity lengthwise thereof to a point outboardly of the inboard end of said cavity, then establishing another electrical welding circuit through the electrode and depositing another layer of weld metal on top of the first mentioned layer by passing the electrode outwardly in said cavity lengthwise thereof, and then depositing another layer of weld metal on top of the first two layers by passing the electrode inboardly lengthwise of said cavity to a point inboardly of said first mentioned point.

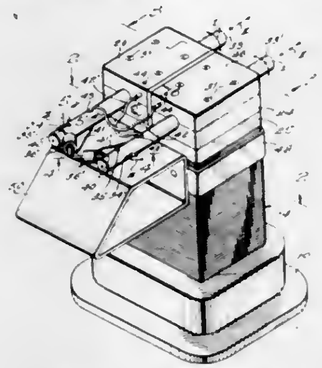
2,648,751

**TRANSFORMER**

**Nelson O. Clark, Winthrop, Mass.**

**Application April 27, 1951, Serial No. 223,421**

**10 Claims. (Cl. 219—12)**



1. In a device for the purpose indicated, a base, a core, a primary within the core, and a single-turn secondary compassing the primary and having divergent termini, each of the termini being connected with a set of superimposed lower and upper clamping jaws, a pair of electrode supporting bars revolubly mounted in and being axially adjustable and fixedly holdable by their respective set of jaws, electrodes adjustable and fixedly holdable relative to said bars, an electric heating element for each electrode, and an adjustable work rest disposed beneath the electrodes.

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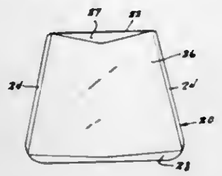
2,648,752

**TRANSPARENT ELECTROCONDUCTIVE ARTICLE**

**Arnold E. Saunders, Jefferson Township, Butler County, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania**

**Application October 27, 1950, Serial No. 192,521**

**2 Claims. (Cl. 219—19)**



2. An article of manufacture which comprises a refractory base having one corner forming an obtuse angle and having thereon a pair of laterally spaced electroconductive bus bars, one of which extends across the surface of the base having its terminus at the corner forming the obtuse angle, a transparent electroconductive film which is less electroconductive than the bus bars and which is in electrical contact therewith, and an area intermediate the bus bars substantially lower in electroconductivity than the film, the boundary line between said film and said area extending from a point adjacent the terminus of the bus bar at an angle of approximately 90° to the inside edge of the bus bar toward the opposing bus bar.



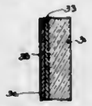
2,648,753

**TRANSPARENT CONDUCTING FILMS**

**William O. Lytle, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania**

**Application December 15, 1951, Serial No. 261,766**

**12 Claims. (Cl. 219—19)**



1. An electric heating device which comprises a vitreous ceramic body having on a surface thereof an electrically conducting iridized metal oxide film integrally united with such surface and having an electrical resistance of less than 1000 ohms per square and, superposed on said film and integrally united therewith, a second iridized metal oxide film having a different composition and a higher electrical resistance than the first film, said body being provided with spaced metallic members in electrical contact with the film integrally united with the surface of such body.

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2,648,754

**ELECTROCONDUCTIVE ARTICLE**

**William O. Lytle, New Kensington, Pa., assignor to Pittsburgh Plate Glass Co., Allegheny County, Pa., a corporation of Pennsylvania**

**Application July 22, 1947, Serial No. 762,659**

**36 Claims. (Cl. 219—19)**



1. An electroconductive viewing closure which comprises a transparent glass base, a transparent electroconductive metal oxide coating on the base and a bus bar having a thickness not in excess of 0.005 inch adherently bonded to the coated base and in electrical contact with the coating; the surface conductivity of said bus bar being substantially higher than the surface conductivity of the metal oxide coating.

6. A method of preparing an electroconductive article which comprises coating a glass base with a pair of spaced electrically conducting strips comprising a vitrifying binder and an electroconductive metal and heating the base to a temperature at which the binder becomes vitrified and coating the heated base and strips with a transparent electroconductive metal oxide coating.

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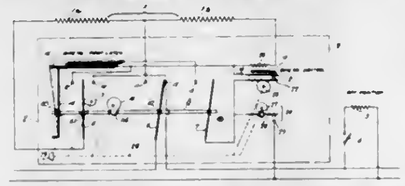
2,648,755

**CONTROL APPARATUS FOR ELECTRIC HEATING UNITS**

**Walter H. Vogelsberg, Wayne, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania**

**Application March 17, 1949, Serial No. 81,936**

**12 Claims. (Cl. 219—20)**



12. In a control system for operating an electric heating unit at any one of a plurality of "heats," a continually rotatable manually adjustable member movable in either a clockwise or counter-clockwise direction to any one of a plurality of angular positions corresponding to the "heats," means responsive to rotation of said member in one direction for effecting overenergization of said unit so as to bring the unit rapidly to the desired temperature corresponding to the selected "heat," said means also being responsive to rotation of said member in the other direction to the same angular position to effect normal operation of the heating unit to achieve the same desired temperature, and means rendered operative upon institution of overenergization on rotation in said first direction for terminating the overenergization when said unit reaches the selected temperature.

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2,648,756

**CONTROL APPARATUS FOR ELECTRIC HEATING UNITS**

**Walter H. Vogelsberg, Wayne, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania**

**Application April 14, 1949, Serial No. 87,462**

**17 Claims. (Cl. 219—20)**



1. In a system for effecting overenergization of an electrical heating unit to heat the same rapidly and for effecting subsequent controlled normal operation of said unit, connections and switch means arranged to effect either overenergization or normal operation of the heating unit, said switch means including contacts having two operative positions for overenergization and normal operation respectively, means for effecting positive retention of said contacts in said normal-operation position, manual means having off and on positions for rendering said unit inoperative or operative, means actuated by said manual means for moving said contacts to overenergization position when said manual means is moved to the off position, means for detaining said contacts in the overenergization position when said manual means is moved to on position, whereby overenergization of said unit is automatically instituted when said manual means is moved to on position to render said unit operative, means automatically operative to cause movement of said contacts to normal-operation position after a time interval, and means including a circuit making and breaking device for controlling the subsequent normal energization of said unit.

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2,648,757

**THERMOSTATIC CONTROLLED HAIR CURLERS, COMBS, AND IRONS**

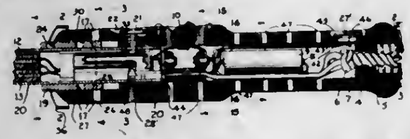
**Solomon Harper, New York, N. Y., assignor of ten per cent to Harold Watkiss, New York, N. Y.**

**Original application March 21, 1946, Serial No. 655,974. Divided and this application October 24, 1951, Serial No. 252,922**

**17 Claims. (Cl. 219—24)**

3. In a portable heater, a heat conducting tube having electric heating means in one end and electric heat controlling means near the other end of said tube, and a sleeve movable on said tube to change the amount of heat conducted

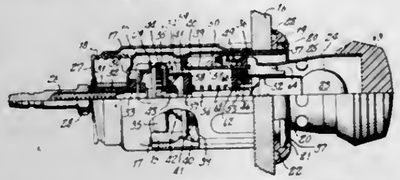
from the heated end of said tube to the heat controlling means of said tube, said heat controlling means controlled by the air surrounding it and said sleeve controlling the conduction of heat



along said tube and also controlling the temperature of the air around said heat controlling means by the admission and mixture of external air to and in said tube.

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**2,648,758**
**CIGAR LIGHTER WITH LUMINOUS INDICATOR**
**Alfred J. Kroll, Forestville, and Arthur W. Schnick, Meriden, Conn., assignors to The Cuno Engineering Corporation, Meriden, Conn., a corporation of Connecticut**
**Application November 15, 1949, Serial No. 127,426**
**7 Claims. (Cl. 219—32)**

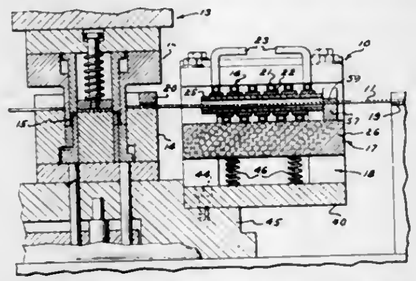


1. An electric cigar lighter comprising the combination of a supporting socket and a removable igniter plug having a heater coil, a locator ring mounted on the end of the socket and provided with a photoluminescent substance, the igniter plug having a lamp bulb in circuit with the heater coil and mounted in position to excite the phosphorescent substance when the coil is being heated, said lamp being provided with means for shielding direct luminous emission therefrom from passing forwardly of the lighter and thereby striking the eye of the operator thereof, and being also provided with apertured means for directing the luminous flux upon said photoluminescent substance.

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**2,648,759**
**APPARATUS FOR FORMING PARTS FROM BRITTLE METAL STRIP**
**George R. Machlan, Cicero, Lee R. McClary, Brookfield, and Alfred J. Prickett, Des Plaines, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application May 11, 1950, Serial No. 161,294**
**4 Claims. (Cl. 219—47)**

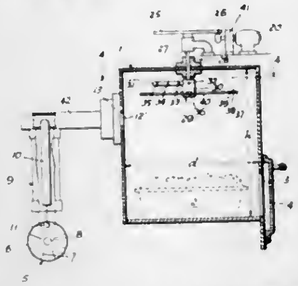
1. A heating fixture for heating successive sections of a relatively straight strip of metal having undulations therein for use in an apparatus having cooperable relatively movable tools for making parts from said heated sections of said strip and having guide means including a stationary guideway adjacent said tools for guiding the strip in a predetermined path relative to said tools comprising an induction coil for receiving a portion of said strip therein and connectible to a source of high frequency current, a holder for said coil, guide means for guiding said holder and coil for straight line vertical movement, resilient means for yieldably supporting said holder in said guide means in a position to align said coil with said stationary guideway, and a guide member on said holder engageable



with undulations on said strip for moving and aligning said coil with successive portions of a strip advanced through said coil.

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**2,648,760**
**HEATING APPARATUS**
**William M. Hall, Lexington, and Fritz A. Gross, Weston, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware**
**Application September 21, 1950, Serial No. 186,050**
**5 Claims. (Cl. 219—47)**



1. High-frequency apparatus comprising a metallic enclosure, means for supplying to said enclosure high-frequency electromagnetic waves having a predetermined wave length, the internal dimensions of said enclosure being large compared to said wave length, a rotatable metallic grid-like structure positioned in said enclosure, and means for moving said structure cyclically, said enclosure including means for enabling a body to be heated to be placed inside said enclosure.

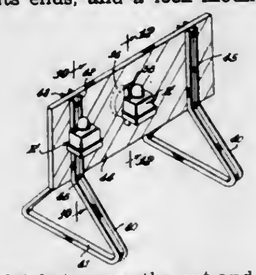
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**2,648,761**
**STREET BARRICADE LIGHT SECURING MEANS**
**John W. Shamel, Los Angeles, Calif.**
**Application September 28, 1951, Serial No. 248,706**
**5 Claims. (Cl. 240—2)**

3. The combination with channeled bars and a panel between said bars, there being a passage horizontally through the bars and panel; of a light, a horizontally perforated bracket rigidly secured to one side surface of said light, said bracket being offset to form a squared seat flushly engaging the channel of one of said bars and having a passage through the middle thereof, a member extending through the bars and the panel, said member having a portion non-rotatably seated within said offset bracket portion, a



nut engaging the outer end of said member and having a groove in its perimetrical surface intermediate its ends, and a lock mountable on said



nut completely to cover the nut and to seat within the channel of the other bar, the lock having a bolt engaging the groove of the nut to lock the light in position on the bars and panel.

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**2,648,762**
**COMBINED HOUSING AND FLEXIBLE FLASHLIGHT SUPPORT**
**Milton S. Dunkelberger, Dayton, Ohio**
**Application December 16, 1950, Serial No. 201,192**
**4 Claims. (Cl. 240—10.6)**

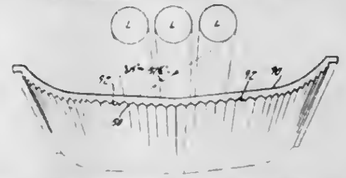


1. In a flashlight, a battery casing, means carried by said casing for attaching the battery casing to one's apparel, battery means disposed within said casing, a flexible cable having an outer conductor and an inner conductor insulated therefrom, means including a swivel connection for connecting the inner conductor to one terminal of said battery means and for connecting the outer conductor to said casing, a sleeve supported on the free end of said cable, a switch assembly telescopically mounted within said sleeve, said sleeve having a slot in its one wall, said switch assembly including a pivotally mounted switch operating button projecting through said slot, said switch assembly including a movable contact element having a terminal portion arranged to engage the inner conductor and a stationary contact element having a terminal portion projecting at one end of said switch assembly, a lamp socket, means for removably attaching said lamp socket to said sleeve, a light bulb, said lamp socket having means for supporting said light bulb with the one terminal of the light bulb arranged in contact with said projecting terminal portion, and a plastic housing secured to and surrounding said lamp socket.



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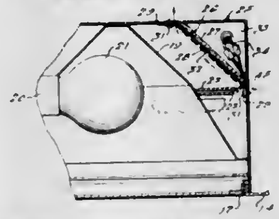
**2,648,763**
**LIGHT CONTROLLING REFRACTOR AND LUMINAIRE USING THE SAME**
**Thomas W. Rolph and Kurt Franck, Newark, Ohio, assignors to Holophane Company, Inc., New York, N. Y., a corporation of Delaware**
**Application April 25, 1950, Serial No. 157,978**
**10 Claims. (Cl. 240—51.11)**



5. The combination with an elongated horizontal light source of substantial width which when viewed lengthwise from underneath presents a long, receding source of brightness of substantial width with angles of observation in the upper glare zone, of a transparent refractor parallel with the source and interposed in the line of sight so as to become a secondary light source, the refractor having an upper, light incident surface accepting and transmitting into the medium thereof all of the light falling thereon except for surface reflection losses, and light emergent surfaces onto which downwardly proceeding light in the medium falls, the light emergent surfaces being in the form of longitudinally extending, straight sided, contiguous ridges which refractively transmit light rays falling thereon within the critical angle of the medium not only with altered longitudinal angles from the nadir, but with altered transverse angles from the nadir and on both sides of the longitudinal vertical sighting plane so that a portion of the rays are emitted in and near said sighting plane, the refracting surfaces for rays in and near said sighting plane being mutually optically cooperative to transmit direct rays from the source in said plane only up to angles of about 60° to about 66° from the nadir so as to obscure the brightness of the source when viewed at angles greater than about 60° to 66° to the nadir in said sighting plane.

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**2,648,764**
**RECESSED LIGHT FIXTURE HAVING HEAT INSULATED CORNER FOR TERMINALS**
**Ivan M. Kirlin, Detroit, Mich., assignor to The Kirlin Company, a partnership**
**Application February 3, 1950, Serial No. 142,219**
**1 Claim. (Cl. 240—78)**

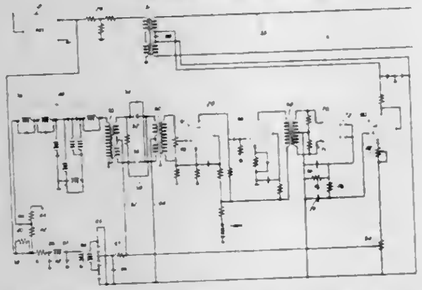


In a recessed lighting fixture, a box of sheet metal having four side walls and an end wall with an open face opposite to said end wall, a light receptacle supported within said box on one of said walls, a reflector within said box, a portion of three side walls and the end wall of the box being separated from the remaining portion of the box by elongated slots closely related to each other to substantially reduce the conduction

of heat through the walls of the remaining box portion to the walls of the separated portion, and a removable heat insulating partition within the box for dividing the remaining box portion from the separated portion with the elongated slots positioned in the remaining box portion for substantially reducing the passage of heat from the remaining box portion into the separated box portion.

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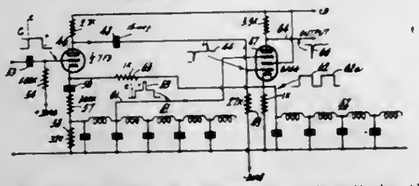
**2,648,765**
**NOISE DETECTION CIRCUIT**
**William R. Young, Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Original application May 20, 1949, Serial No. 94,448. Divided and this application July 14, 1949, Serial No. 104,625**
**11 Claims. (Cl. 250—20)**



8. An electrical circuit for deriving an electrical quantity representative of the interference energy accompanying a band of signal frequencies, which compirses a transmission path for said signal band and accompanying interference energy, means for further transmitting only wave frequencies in a preassigned frequency relation to said signal band, a network of variable transmission loss characteristic for receiving the output of said means, means for deriving a control potential from the output of said network, said means including an energy translating and storage means having a charging time which is short in comparison to its discharging time, means responsive to said control potential for generating said representative electrical quantity, and means for applying a portion of said generated quantity to said network to control the transmission loss introduced by the latter in accordance with variations in the magnitude of the generated electrical quantity.

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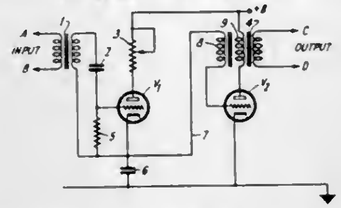
**2,648,766**
**PULSE WIDTH DISCRIMINATOR**
**Everett Eberhard, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application April 19, 1950, Serial No. 156,881**
**5 Claims. (Cl. 250—27)**



1. A pulse width discriminator circuit to the input circuit of which pulses of different widths may be applied, a coincidence circuit, means for differentiating said pulses to produce differentiated pulses that include back edge pulses, means for applying said back edge pulses to said coincidence circuit with such polarity as to tend to make it pass signal, means for producing a delayed control pulse in response to the occurrence of the front edge of said applied pulses which control pulse has an effective duration that is coincident with the back edges of the pulses of the widths to be passed by the coincidence circuit, means for applying said control pulse to said coincidence circuit with such polarity as to make it tend to pass said back edge pulses, means for also applying to said coincidence circuit the different width input pulses with such polarity and amplitude as to hold said coincidence circuit non-conducting, and means comprising a reflecting delay line to which said last mentioned pulses are applied, the non-reflecting end of said delay line being connected to said coincidence circuit to apply the reflected pulses thereto with such polarity and amplitude as hold the coincidence circuit non-conducting, the time required for a pulse to travel down the delay line and back being substantially equal to but slightly greater than the duration of the widest input pulse that is to be passed by the coincidence circuit.

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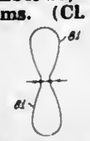
**2,648,767**
**FREQUENCY DIVIDER**
**William D. Houghton, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware**
**Application May 21, 1947, Serial No. 749,473**
**8 Claims. (Cl. 250—27)**




1. The method of operating a counter circuit having a charge collecting condenser and a source of polarizing potential, which comprises charging said condenser at the end of each counting cycle to a negative value at least equal to but opposite in sign to the potential supplied by said source, causing the charge on said condenser to decrease toward but never reach zero by increments in response to correspondingly appearing waves to be counted, and charging said condenser at the end of each cycle of counting to the same negative value before the charge on said condenser reaches zero.

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**2,648,768**
**DIPOLE ANTENNA**
**Oakley McDonald Woodward, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application December 29, 1948, Serial No. 67,826**
**8 Claims. (Cl. 250—33)**



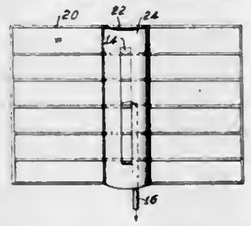
1. In an antenna comprising a radiator or receptor component having at least one elongated



element resonant to a given frequency, said component having a bi-directional field pattern at said given frequency and a natural quadri-directional field pattern at frequencies above said given frequency, an adapter device mounted on said element substantially centrally of the ends thereof to maintain said bi-directional field pattern at said frequencies above said given frequency, said adapter device comprising a pair of elongated radiator or receptor conductors substantially shorter than said element and arranged in the form of a V, the adjacent ends of said conductors being connected to said element to lie in substantially a single plane and to form an angle of substantially 45° between said element and each of said elongated conductors.

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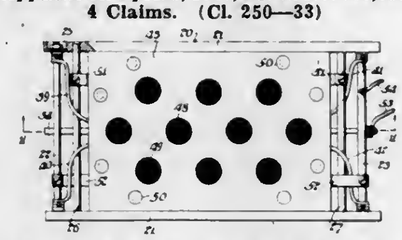
**2,648,769**
**WIDE ANGLE RADIATION ANTENNA**
**Robert Wayne Masters, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application June 28, 1949, Serial No. 101,825**
**7 Claims. (Cl. 250—33)**




1. An antenna for substantially uniform wide angle radiation, including a hollow conductive semi-cylindrical element having at least one slot therein arranged longitudinally of the cylindrical axis thereof, a conductive surface member arranged behind said slot in conductive relationship to said semi-cylindrical element along substantially the entire lines of intersection therewith and extending radially and outwardly therefrom, and means to couple a transmission line across the edges of said slot at points intermediate the ends thereof.

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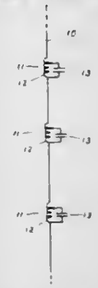
**2,648,770**
**RADIO ANTENNA**
**Benjamin W. Blanchard, Jr., Pine Hill, N. J.**
**Application April 8, 1947, Serial No. 740,069**
**4 Claims. (Cl. 250—33)**



1. A radio antenna comprising several homocentric flattened tubular dead end windings of different sizes telescoped within one another, one side of each winding connected to a lead for attachment to a receiving set, and screens disposed on opposite sides of the assembly of windings and connected to said lead, wherein the screens are each composed of a core and face panels of insulation material with layers of metallic screening between adjacent panels.

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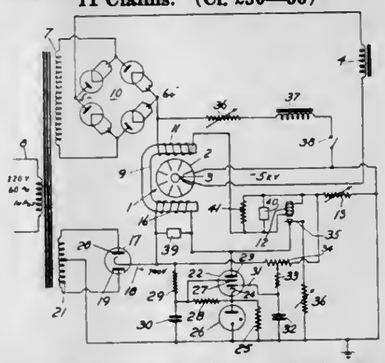
**2,648,771**
**RESONANT AERIAL**
**Edward Cecil Cork, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain**
**Application September 24, 1947, Serial No. 775,784**
**In Great Britain October 1, 1946**
**6 Claims. (Cl. 250—33)**



1. An aerial comprising a conductor loaded by at least three reactive elements arranged in series along the length of said conductor so that it can operate in a resonant manner in more than one band of frequencies, each series reactive element comprising an inductance shunted by a capacity, said elements being disposed along the length of said conductor at intervals which at the highest of said frequency bands are short compared with the wavelength in said band and said elements each being tuned to substantially the same frequency and having magnitudes which are such that the same length of said conductor can resonate like a vibrator having a length equal to a number of quarter wavelengths, said number including one, corresponding to each of said plurality of different bands.

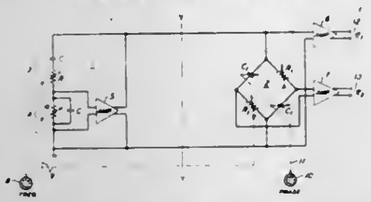
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**2,648,772**
**MAGNETRON CONTROL CIRCUITS**
**John W. Dawson, Newton, Fritz A. Gross, Weston, and Thomas A. O. Gross, South Lincoln, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware**
**Application February 15, 1949, Serial No. 76,602**
**11 Claims. (Cl. 250—36)**



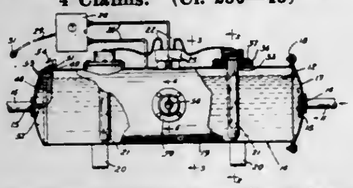
1. In combination an electron discharge device having a resonating anode structure and a cathode, means for supplying a magnetic field across said discharge device to thereby cause oscillations in said device, and means for maintaining the power output of said device substantially constant comprising a circuit varying said magnetic field as a function of the voltage applied to said discharge device.

**2,648,773**
**POLYPHASE OSCILLATOR**
**Robert L. Wallace, Jr., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application March 23, 1950, Serial No. 151,331**
**8 Claims. (Cl. 250—36)**



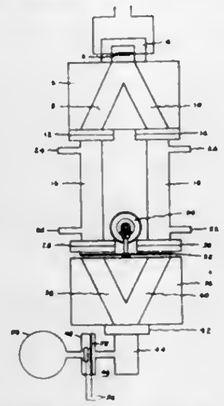
1. A source of variable frequency polyphase alternating current having mutually independent frequency and phase-adjusting means comprising an oscillator with variable frequency-determining elements of resistance and reactance only and an output circuit, at least one variable phase-adjusting network connected to said oscillator output circuit, an output circuit for said network, at least two kinds of phase-varying elements in said network, mechanical means coupling the frequency-determining elements with one of the kinds of phase-varying elements whereby the frequency may be varied independent of the phase between the voltages from said output circuits, and means for adjusting others of the remaining phase-varying elements to vary the phase between said voltages independent of frequency.

**2,648,774**
**FLUID STERILIZER**
**Fred W. Whitlock, Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois**
**Application September 10, 1947, Serial No. 773,153**
**4 Claims. (Cl. 250—43)**



1. A sterilizer utilizing a sterilizing lamp comprising, a tank having ports for connection to a relatively high pressure fluid service line and having an opening for said lamp, a flange having an opening in registry with said tank opening, means accessible from the exterior of the tank for securing said flange thereto, said flange having a shoulder in spaced relation with said opening, a relatively thick resilient gasket disposed on said shoulder, an envelope for receiving said lamp having one end closed and disposed in said tank and having the opposite end formed with a radial flange forming a collar, said collar at its face toward the closed end of the envelope engaging said gasket, a second relatively thin gasket disposed to engage the opposite side of said collar, and means mounted on said flange and abutting said second gasket to secure said collar and said first and second gaskets in assembled relation whereby above atmospheric pressures in said tank force said collar to compress said relatively thin gasket and permit expansion of said relatively thick gasket to insure a fluid tight assembly.

**2,648,775**
**METHOD FOR THE ANALYSIS OF MIXTURES**
**James L. Waters, Framingham, Mass., assignor to James L. Waters, Inc., Framingham, Mass., a corporation of Massachusetts**
**Application April 19, 1949, Serial No. 88,346**
**5 Claims. (Cl. 250—43.5)**



1. In the analysis of mixtures wherein radiation is caused to travel along two paths and is caused to traverse, in at least one of said paths, the analysis mixture containing the component to be determined, and wherein the component to be determined affects the relative intensity of the beams, the method which comprises continuously maintaining said analysis mixture in the path of the traversing radiation, and individually and alternately receiving said beams in a confined absorbing gas having at least one spectral absorption region in common with a spectral absorption region of the component to be determined, continuing said individual and alternate reception at a sufficiently rapid rate so that ambient temperature changes between successive beam alternations do not change substantially the magnitude of the difference between the beams, and measuring thermal variation in the receiving gas occurring at the frequency of alternation and caused by the difference in radiation absorbed by the receiving gas from the two beams.

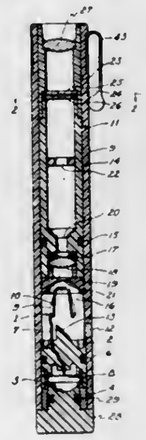
**2,648,776**
**OPTICAL SYSTEM FOR IMAGE INTENSIFIERS**
**William W. Eitel, Jr., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 22, 1951, Serial No. 216,965**
**20 Claims. (Cl. 250—77)**



1. In combination with a source of X-rays, an image intensifier tube comprising a fluorescent screen and an electron optical system energized by light from said screen and projecting an electron image of the light-field of said screen to produce a reversed and inverted light-image on an output screen, an optical system comprising a pair of plates intersecting each other substantially at right angles and reflecting on their adjacent faces, a magnifying lens system, and means for supporting said plates and said lenses in position to project an image of said output screen to one side of the axis along which said X-rays are projected.



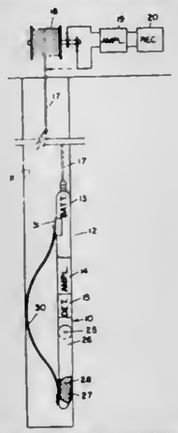
**2,648,777**
**QUARTZ FIBER DOSIMETER**
**Ole G. Landsverk, Mount Healthy, Ohio**
**Application July 11, 1950, Serial No. 173,131**
**4 Claims. (Cl. 250—83.3)**



1. In a dosimeter having a housing containing an electrometer supported by an insulator and a unitary microscope for viewing the electrometer, support means comprising a first O-ring composed of a resilient material located between the insulator and the housing for providing a shock-proof centering means for the electrometer, and a second O-ring composed of a resilient material located between the microscope and the housing for providing a shock-proof centering means for the microscope.

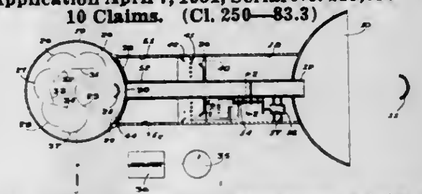
**2,648,778**
**AUTOMATIC DIAMETER COMPENSATION IN RADIATION WELL LOGGING**
**Daniel Silverman, George R. Newton, and Jimmie E. Skinner, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware**
**Application December 30, 1950, Serial No. 203,738**
**15 Claims. (Cl. 250—83.3)**

1. The method of logging well formations in well bores of varying diameter which comprises irradiating the well formations with penetrating radiations from a source thereof, measuring at a point removed from said source the intensity of said penetrating radiations part of which have traversed the well formations and part of which have traveled generally through the well bore, whereby variations in said intensity occur as the well-bore diametcr varies, producing variations in the measured value of said intensity opposite to the variations occurring with well-diameter changes, and recording the resultant value of said intensity as a function of depth in said well bore,



whereby a log is obtained which is substantially free of variations due to well-diameter changes.

**2,648,779**
**RADIATION DETECTOR**
**Walter H. Kohl, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**
**Application April 7, 1951, Serial No. 219,790**
**10 Claims. (Cl. 250—83.3)**

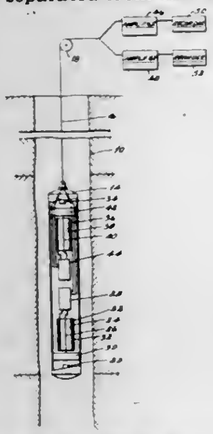


1. An infra-red detector comprising, a tube, a first reflector mounted to one end of said tube and adapted to reflect infra-red radiation down said tube, a second reflector at the opposite end of said tube, a first phosphor material intercepting the energy from said second reflector, a second phosphor material adjacent said first phosphor material, an exciting means exciting said second phosphor to cause it to give an emission which excites said first phosphor material, means for intercepting the infra-red energy flowing through the first tube, timing means for controlling the exciting means to turn it on when no infra-red radiation is passing through said tube, and multiplying means receiving the output of said first phosphor material, and detecting means connected to said multiplying means to produce an output proportional to the output of said first phosphor.

**2,648,780**
**COMBINATION INDUCED AND SCATTERED GAMMA RAY BOREHOLE LOGGING**
**Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application June 15, 1950, Serial No. 168,316**
**1 Claim. (Cl. 250—83.6)**

A radioactivity bore hole logging assembly comprising an elongated instrument housing adapted to be passed through the hole suspended from a conductor cable, a source of neutrons and gamma rays disposed near one end of said hous-

ing, an induced gamma ray detector disposed within said housing near said source, said detector being of the electrical pulse-producing type and comprising a cathode and an anode and said cathode being formed of a low atomic number metal preferentially sensitive to the detection of gamma rays having energies of around 2.2 m. e. v., a direct gamma ray shield between said source and said detector, a layer of gamma ray absorbing material disposed around the sides of said detector for absorbing gamma rays from said source which are scattered in the surrounding material and returned toward the detector, a gamma ray source near the other end of said housing and separated from said first mentioned

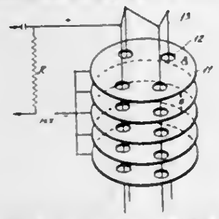


source by at least six feet, a scattered gamma ray detector of the electrical pulse-producing type disposed within said housing near said gamma ray source, said last mentioned detector comprising a cathode and an anode and said cathode being formed of a high atomic number metal preferentially sensitive to the detection of gamma rays having energies of ½ m. e. v., or less, a direct gamma ray shield between said gamma ray source and said scattered gamma ray detector and means for amplifying and recording the outputs of the two detectors, the simultaneous outputs of the two detectors being indicative of strata separated as to depth in the hole by a constant fixed distance.

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**2,648,781**
**DETECTION AND MEASUREMENT OF RADIATION**
**Gerhard Herzog and Roy P. Mazzagatti, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware**
**Application June 16, 1950, Serial No. 168,602**
**15 Claims. (Cl. 250—83.6)**

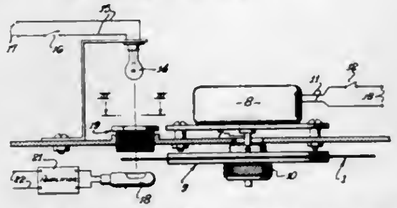
8. A radiation detector characterized by its ability to function efficiently at relatively high counting rates comprising a cathode including a series of substantially parallel spaced plates, each plate being formed with at least one aperture, said apertures being in alignment, and an anode wire positioned in each of said aligned apertures and insulated from said plates, said anode wire and said cathode plates being maintained at predetermined different potentials to create a field of predetermined strength about said anode wire, and means to set up a third potential different from the potentials of said cathode and said anode at a zone adjacent said anode, said last named potential being of a value to produce a field in said zone of a different strength from the remainder of said field, said zone field strength being below that which will sustain progressive ionization along said anode whereby ioni-



zation developed adjacent said anode by radiation intercepted by said detector is limited in travel.

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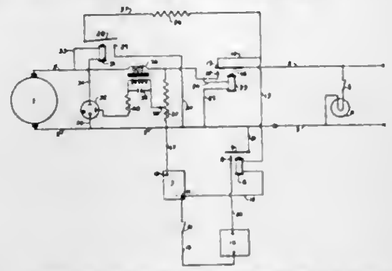
**2,648,782**
**AUDIO SWEEP FREQUENCY GENERATOR**
**George A. Argabrite, North Hollywood, Calif., assignor, by mesne assignments, to Pacific Transducer Corporation, Los Angeles, Calif., a corporation of California**
**Application June 25, 1949, Serial No. 101,349**
**9 Claims. (Cl. 250—219)**



1. In a sweep frequency generator having a source of light and photosensitive means responsive to light therefrom, the provision of: modulating means in the path of light impinging said photosensitive means, said modulating means being movable at constant speed relative to said path and including a series of alternate opaque and transparent sections constituting a variable area type of recording, the time interval between the arrival of successive opaque and transparent sections at said path being progressively diminished from one end of said series to the other end thereof.

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**2,648,783**
**ELECTRICAL CONTROL SYSTEM FOR ENGINE DRIVEN GENERATOR SETS**
**Loris D. Clark, Dayton, Ohio, assignor, by mesne assignments, to Master Vibrator Company, Dayton, Ohio, a corporation of Ohio**
**Application December 19, 1946, Serial No. 717,113**
**12 Claims. (Cl. 290—30)**

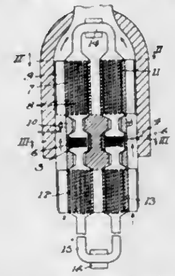


11. Control means for an engine driven generator set including an engine control circuit operative to start the engine upon application of load to the power lines, a transfer switch for connecting the generator to the power lines upon attainment of a predetermined generator output, and a supplemental engine control circuit energized upon application of the predetermined generator output to the power lines to maintain engine operation including independent additive sources of energizing power therefor, the sum of which is sufficient to energize the supplemental engine control circuit.



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**2,648,784**
**METHOD AND APPARATUS FOR PRODUCING ELECTRICAL AND MECHANICAL ENERGY FROM THERMAL ENERGY**
**Constantin Chilowsky, New York, N. Y., assignor to Technical Assets, Inc., New York, N. Y., a corporation of Delaware**
**Original application November 10, 1945, Serial No. 627,832. Divided and this application May 27, 1950, Serial No. 164,750**
**17 Claims. (Cl. 310—4)**



1. The method of producing electrical and mechanical energy from thermal energy by producing a magnetic flux in a closed armature of ferro-magnetic material, alternately heating and cooling a transverse section of said armature above and below the Curie point of said material, whereby the permeability of said armature is interrupted and said magnetic flux is modulated in intensity, thereby inducing in a winding of said armature an alternating electric current, in which the alternate heating and cooling of the transverse section is effected by the periodical oscillation, with the desired frequency, of a metallic liquid column alternately traversing in opposite directions the transverse section, parts of this column on one side of the transverse section being continuously heated, and parts of the same column on the other side of the transverse section being continuously cooled, said parts being brought alternately into heat-exchange relation with said section.

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**2,648,785**
**INTEGRAL ELECTRODE WITH LEAD WIRE ANCHOR FOR PIEZOELECTRIC CRYSTAL**
**Marcel Charles Tournier, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Continuation of application Serial No. 729,347, February 18, 1947. This application November 12, 1949, Serial No. 126,780. In France August 2, 1939**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires August 2, 1959**
**8 Claims. (Cl. 310—9.0)**

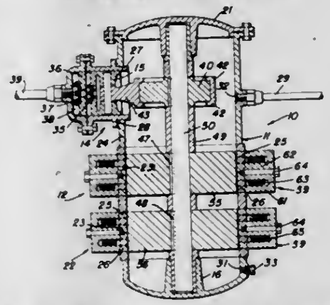
1. A piezo electric element comprising a plate of piezo-electric substance, a metal contact piece secured to said plate, a wire secured to said contact piece for making electrical and mechanical connection to said plate, and a metallic layer



covering the exposed surfaces of the contact piece and the adjacent surface of the piezo-electric plate.

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**2,648,786**
**ELECTRIC MOTOR WITH ENCASED ROTOR**
**Louis Kritter, Paris, France**
**Application October 24, 1951, Serial No. 252,830**
**In France October 25, 1950**
**8 Claims. (Cl. 310—46)**



1. A driving system for units rotatable within a closed sealed container, comprising a drive shaft held within said container, an electric driving motor for the same, said electric driving motor including a notched wheel of magnetically permeable material fixedly connected with said drive shaft and rotatable within the container and a number of electromagnetic coils surrounding the notched wheel, said electromagnetic coils being arranged on the outside of the container, a source of alternating current for supplying the electromagnetic coils with energizing current, a second rotor on said drive shaft, electromagnetic coils surrounding the said second rotor on the outside of the container, and means for controlling the energization of the electromagnetic coils of the electric motor, said means including the electromagnetic coils surrounding the second rotor.

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**2,648,787**
**MOTOR-DRIVEN TOOTHBRUSH**
**Charles B. Smithson, Jr., Clay Township, St. Joseph, Ind.**
**Application June 24, 1950, Serial No. 170,195**
**10 Claims. (Cl. 310—47)**



1. In combination, an electric motor having a housing adapted to be held in the hand, motion translating means actuated by said motor and confined in said housing, said translating means including an oscillatory and longitudinally bodily shiftable shaft projecting from said housing, said housing having an aperture receiving said shaft with clearance, a flexible seal spanning said aperture and sealingly encircling and constrictively

gripping said shaft to movably fulcrum the same intermediate the ends of the shaft, and means for detachably mounting a tooth brush on the projecting portion of said shaft.

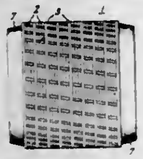
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2,648,788

**ROTOR FOR DYNAMOELECTRIC MACHINES**

**Frank H. Fleischer, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York**

**Application September 20, 1950, Serial No. 185,760**
**17 Claims. (Cl. 310—51)**



1. A squirrel cage rotor assembly comprising a plurality of laminations having open slots and a plurality of other laminations having totally closed slots, and a cast squirrel cage winding in said slots, said closed slot laminations being interleaved with said open slot laminations across the axial length of said rotor whereby the effective noise level is reduced.

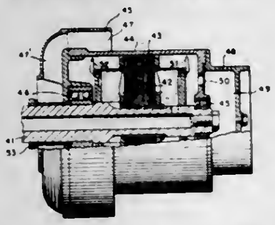
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2,648,789

**LIQUID-COOLED ROTARY ELECTRIC MACHINE**

**Franz Geyer, Linz (Danube), Austria, assignor of one-half to Wilhelm F. Gauster, Raleigh, N. C.**

**Application November 7, 1951, Serial No. 255,299**
**In Austria January 27, 1950**
**11 Claims. (Cl. 310—54)**



1. A liquid-cooled rotary electric machine, comprising an internal stator and an external rotor, a liquid coolant enclosed in said rotor and forming in operation an annular body of rotation, said stator having passages and having two conduit means communicating with each other through said passages and having respective ends projecting into the space of said coolant body, said conduit ends having respective openings directed in the running direction and opposed thereto respectively, whereby said conduit means divert a flow of coolant from said body through said passages and back to said body.

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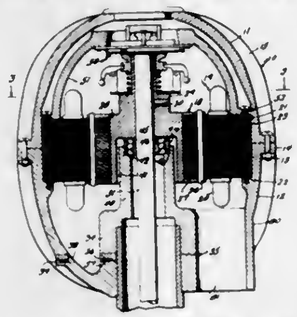
2,648,790

**ELECTRIC MOTOR-DRIVEN UNIT**

**Paul V. Harmon, Nashville, Tenn., assignor to Precision Parts Corporation, Nashville, Tenn., a corporation of Tennessee**

**Application May 26, 1950, Serial No. 164,490**
**3 Claims. (Cl. 310—66)**

1. An electric motor driven unit comprising a motor comprising a stator and a rotor, an axial hub carrying said rotor, a unit adapted to be driven by said motor and arranged a substantial distance therebelow, a tube fixing said unit with respect to the casing of said motor, said hub being axially recessed in its lower end, and two remotely spaced bearing structures forming the sole supporting means for said shaft, one of said bearing



structures being arranged in said tube adjacent and above said unit and the other in the recess of said hub, said other bearing structure having a single row of anti-friction bearings arranged in a common plane transverse to the axis of said shaft.

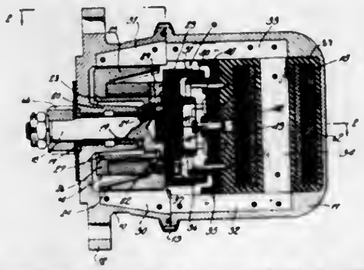
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2,648,791

**IGNITION APPARATUS**

**William Graydon Roloson and Walter J. Spengler, Sidney, N. Y., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware**

**Application July 5, 1946, Serial No. 681,448**
**18 Claims. (Cl. 310—70)**



1. Ignition apparatus comprising a magnetic rotor, a cam member mounted on said rotor for operating a circuit breaker, and a distributor comprising an electrode mounted directly on and within said cam member and a distributor block having an input terminal and a plurality of circularly disposed output terminals operatively associated with said electrode, said block having an axially extending flange surrounding said terminals and extending into a recess in said cam member around said electrode.

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2,648,792

**DYNAMOELECTRIC MACHINE**

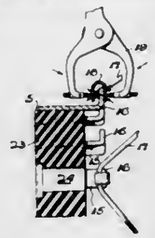
**Andrew R. Wylie, Owosso, Mich., assignor to Redmond Company, Inc., Owosso, Mich., a corporation of Michigan**

**Application November 21, 1950, Serial No. 196,811**
**6 Claims. (Cl. 310—234)**

1. The method of connecting an armature coil of a dynamo-electric machine to a commutator segment of such a machine which comprises the steps of looping an insulated wire section of said



coil onto an end portion of said commutator segment, and welding said looped wire section to said



end portion by the application of sufficient heat to effect the weld and at the same time burn away the insulation on said wire section at said weld.

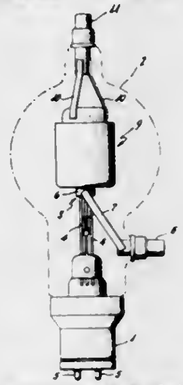
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2,648,793

**THERMIONIC TUBE AND PLATE ASSEMBLY FOR SUCH TUBES**

**Weltis Wihtol, Redwood City, Calif., assignor to The Robert Dollar Company, Redwood City, Calif., a corporation**

**Application May 6, 1950, Serial No. 160,461**
**8 Claims. (Cl. 313—40)**



1. In a thermionic tube, a plate assembly having a metallic inner tubular anode, a metallic outer tube spaced from and surounding said anode, a continuous metallic joint connecting one end of said anode to the coresponding end of said outer tube, and a metallic lattice-like web support connecting the other end of said anode to the corresponding end of said outer tube, the space between said anode and outer tube being filled only with the atmosphere of said thermionic tube.

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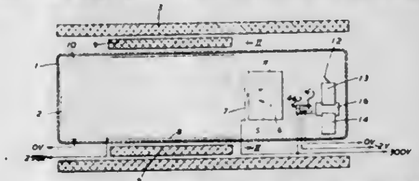
2,648,794

**ELECTRON DISCHARGE DEVICE SUCH AS TELEVISION TRANSMISSION TUBE**

**Alec Frank Henson, Whitton, England, assignor to Electric & Musical Industries Limited, Middlesex, England, a company of Great Britain**

**Application February 17, 1948, Serial No. 8,875**
**In Great Britain February 18, 1947**
**8 Claims. (Cl. 313—67)**

1. An electron discharge device adapted to generate electrical signals corresponding to an optical image, comprising a target, elemental areas of which can be charged to different potentials, an electron gun disposed to one side of said target and comprising at least a cathode and an anode spaced along the axis of said gun for producing a beam of electrons directed along said axis for scanning said target, an electron multiplier disposed to the same side of said target as said gun and comprising a plurality of electrodes separate from said anode and angular-



ly spaced about said axis of said gun, and means disposed between said target and said multiplier for directing electrons from said target to the first of said multiplier electrodes along a path avoiding said anode.

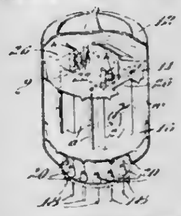
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2,648,795

**VISUAL ELECTRON FLOW INDICATOR**

**Leon S. Maloof, Watertown, Mass., assignor to Lee Electronic Labs, Inc., Roxbury, Mass., a corporation of Massachusetts**

**Application August 9, 1951, Serial No. 241,107**
**6 Claims. (Cl. 313—108)**



1. A device for indicating the presence of electron flow in electron discharge apparatus having within a transparent envelope at least a cathode for emitting an electron flow and an anode with a wall portion facing said cathode, said wall portion having a window in the path of said electron flow, and screen means emitting light under electron bombardment, said device comprising screen support means on said anode closely adjacent to said window and having a surface which is inclined to the plane of said wall portion, said screen means being applied to said surface, which surface is disposed to receive electron flow passing through said window.

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2,648,796

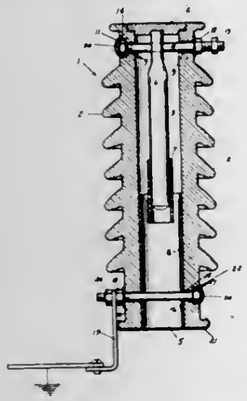
**BIRDPROOF SPARK GAP FOR DISTRIBUTION LINES**

**George H. Manke, South Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware**

**Application November 26, 1951, Serial No. 258,190**
**2 Claims. (Cl. 313—243)**

1. An excess-voltage protective device comprising an insulating housing having a cylindrical core extending through its length, an insulating closure at the upper end of the core, a lead-in line at the upper end with an electrode attached and extending downwardly in the core, a fibre tube circumferentially surrounding the end of the electrode and extending slightly beyond it, said fibre tube embracing said electrode in tight relationship so as to preclude the passage of gases between said electrode and said fibre tube, another fibre tube lining the cylindrical core of the housing in that area where an

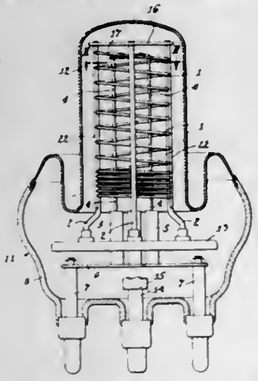
over-voltage spark might occur, said fibre tube lining extending beyond the tip of said electrode,



a screen over the opening at the lower end of the housing, and a grounding means at the lower end.

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**2,648,797**
**GRID CONSTRUCTION**
**Leo C. Werner, Cedar Grove, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 4, 1951, Serial No. 229,778**
**9 Claims. (Cl. 313—350)**

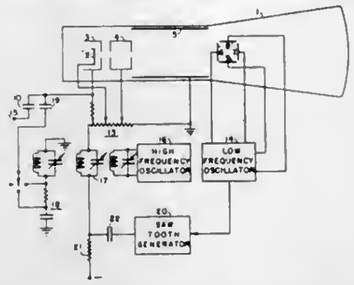


1. A control electrode for electrical discharge devices comprising a wire helically wound on a plurality of substantially parallel posts, each post comprising two cooperating clamping members having transverse grooves on their adjacent faces which coact to grip the respective turns of said wire, and a helical binder closely surrounding each said post.

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**2,648,798**
**MODULATION SYSTEM FOR CATHODE-RAY OSCILLOSCOPES**
**La Verne R. Philpott, Washington, D. C.**
**Application February 21, 1945, Serial No. 579,134**
**18 Claims. (Cl. 315—22)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

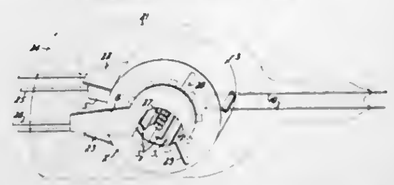
1. In a cathode ray oscilloscope, means for forming an electron beam, means for sweeping the beam along a timing trace, means responsive to a signal for modulating the beam current, and beam control means operative independently of the said signal to show the current modulation




on the screen as an indication lateral to the timing trace.

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**2,648,799**
**CAVITY RESONATOR MAGNETRON**
**Otto Albert Lardelli, Baden, Switzerland, assignor to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G., Glarus, Switzerland**
**Application March 31, 1949, Serial No. 84,570**
**In Switzerland December 17, 1948**
**4 Claims. (Cl. 315—40)**



1. In a magnetron, a cavity resonator of conducting material and in toroidal form having a pair of annular side walls cooperating with coaxial inner and outer cylindrical walls, the outer wall being circumferentially complete and the inner cylindrical wall being defined by two sets of interleaved anode segments, there being the same number of more than four anode segments in each set and adjacent anode segments being connected in alternation to opposite annular side walls of the cavity resonator, a cathode within the cylindrical space defined by said anode segments, and means for stabilizing oscillation of the magnetron at the natural resonant frequency of the cavity resonator; said stabilizing means preventing current flow tangentially between the segments on the said annular side walls of the cavity resonator and comprising slits extending radially outwardly from said inner cylindrical wall substantially to the outer cylindrical wall and located in different diametrical planes through the axis of said cylindrical walls.

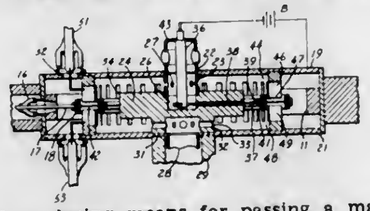
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**2,648,800**
**DOUBLE PARALLEL PLANE MAGNETRON**
**Paul I. Corbell, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**
**Application December 2, 1949, Serial No. 130,819**
**3 Claims. (Cl. 315—40)**

1. A magnetron tube comprising, a hollow cylindrical member, a first disc-shaped cover member received at one end of said cylindrical member, a first annular anode structure extending into said cylindrical member from said first cover member, a second disc-shaped cover member received at the opposite end of said cylindrical



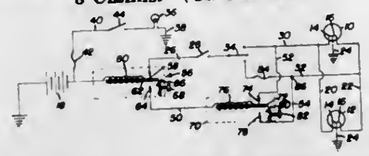
member, a second annular anode structure extending into said cylindrical member from said second cover member, an annular cathode supported within said cylindrical member between said first and second anode structures with clearance therebetween, means for furnishing a direct current potential connected to said cathode and to said first and second anodes, magnetic



field producing means for passing a magnetic field through the space between the cathode and the first and second anodes, said magnetic means comprising an external annular portion attached to said cylindrical member and an internal disc portion supported by one of said cover members, and means for removing energy from said tube attached to one of said cover members.

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**2,648,801**
**AUTOMATIC LIGHTING CIRCUIT**
**Robert E. Hall, Larkinsville, Ala.**
**Application January 2, 1952, Serial No. 264,467**
**8 Claims. (Cl. 315—83)**

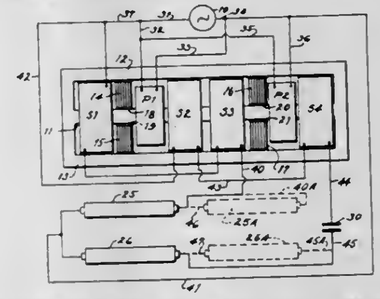


1. A lighting circuit for a vehicle comprising a power source, a plurality of lamps, each lamp having a plurality of light emitters therein, said emitters being arranged in a plurality of groups, each group including an emitter in each lamp, a circuit connecting said source to said groups of light emitters, a main switch in said circuit, a selector switch selectively connecting one of said groups of light emitters in said circuit, a fuse in series with one of said groups of light emitters, a thermostatic switch in said circuit between said source and said main switch, an auxiliary circuit extending between said thermostatic switch and one of said groups of light emitters, said thermostatic switch being operable in response to excessive current in said first mentioned circuit to open said circuit and connect said auxiliary circuit, and latch means maintaining said thermostatic switch in operated position.

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**2,648,802**
**SYSTEM AND APPARATUS FOR GASEOUS TUBES**
**Charles R. Kazebee, Cleveland, Ohio, assignor to France Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application January 10, 1949, Serial No. 70,127**
**7 Claims. (Cl. 315—138)**

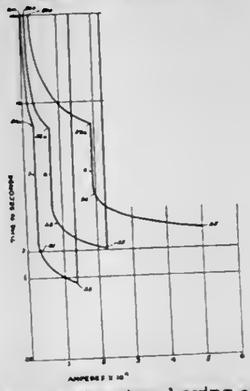
1. An apparatus adapted for operating a plurality of discharge tube loads comprising in combination, a closed magnetic core having an inner and two outer legs, a first, second, third, and fourth secondary coil mounted respectively in axial spaced relation from each other on said inner core leg, means connecting one end of said first secondary coil to one end of said third secondary coil and other means connecting one end of said second secondary coil to one end of said fourth secondary coil to form a first and second secondary winding respectively, a primary winding subdivided into a pair of spaced primary coils, a first one of said primary coils mounted on said inner core leg intermediate said first and second secondary coils and closely coupled to said second secondary coil, said second primary coil mounted on said inner core leg



intermediate said third and fourth secondary coils and closely coupled to said fourth secondary coil, magnetic core shunts positioned between said inner and outer core legs intermediate said first primary and secondary coils and intermediate said second primary coil and said third secondary coil respectively, and a condenser connected in series with one end of said closely coupled second secondary winding.

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**2,648,803**
**CASCADED BREAKER SYSTEM**
**Joseph D. Wood, Strafford Village, Teddyffrin Township, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application March 29, 1950, Serial No. 152,674**
**6 Claims. (Cl. 317—35)**



1. In an electrical system having a plurality of circuit breakers connected in series, the interrupting capacity of the successive breakers being progressively less for the circuit breaker nearer to the load, each of said circuit breakers having a current responsive means and a long time delay mechanism operable in response to overload currents and having a time of operation measurable in the order of seconds and a short time delay mechanism responsive to fault currents and operable in periods of time of the order of cycles, the long and short time delay mechanisms for each of said circuit breakers being individual to each circuit breaker and being of decreasing time for the same current values for the circuit breakers nearer to the load, each of

said circuit breakers having a fixed contact, a movable arm carrying a movable contact engageable with the fixed contact, a latch device for holding said movable contact in engagement with said fixed contact, a trip mechanism, and a connection from said movable arm to the trip mechanism constructed so that after said latch releases said movable arm, the electromagnetic forces set up tend to drive the contacts apart, and before said latch latches said contacts in engagement the electromagnetic forces set up by the currents flowing through the contact tend to drive the contact into engagement, and means operative in response to fault currents at or just below the interrupting rating of the breaker for locking said breaker against tripping in response to such fault currents, said means comprising an armature and a latch; said latch directly preventing the operation of said trip.

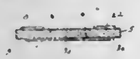
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**2,648,804**

## MULTIPLE ELEMENT CIRCUIT COMPONENTS

**Oliver I. Steigerwalt and Howard I. Oshry, Erie, Pa., assignors to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania**

**Application February 1, 1951, Serial No. 208,954**
**1 Claim. (Cl. 317—101)**



A multiple element printed circuit component comprising a composite unitary fired ceramic plate of uninterrupted coherently united masses of the ceramic and having opposite faces adapted to receive a plurality of printed coatings forming electric circuit impedance elements having properties determined by the electrical properties of the underlying ceramic, said plate comprising a plurality of masses of ceramic of different electrical properties in edgewise relation fired together to make the unitary composite plate, each mass extending contiguously between the opposite faces of the plate and forming a portion of the area of each of said opposite faces and adjoining masses being in non-overlapping relation and of different electrical properties and united by the intermingling which accompanies firing at the region in which the masses are in edgewise contact, and a plurality of coatings printed on the plate on areas respectively corresponding to the different masses of ceramic and forming electric impedance elements having properties determined by the electrical properties of the respective coating and the underlying ceramic.

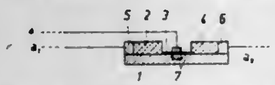
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**2,648,805**

## CONTROLLABLE ELECTRIC RESISTANCE DEVICE

**Eberhard Hermann Georg Spenke, Frank Wenzel Georg Rose, and Erich Gerhard Rudolf Waldkötter, Pretzfeld, Germany, assignors to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany**

**Application October 21, 1950, Serial No. 191,360**
**In Germany May 30, 1949**
**18 Claims. (Cl. 317—235)**




1. A controllable electric resistance device, comprising a resistance body of barrier-layer-forming material forming a current path and having a spot of constricted conductance in said path, current supply means comprising a connector electrode and being conductively joined with said body to pass current through said path, and a barrier electrode joined with said body substantially around said spot and spaced from said connector electrode to permit impressing a voltage across said electrodes.

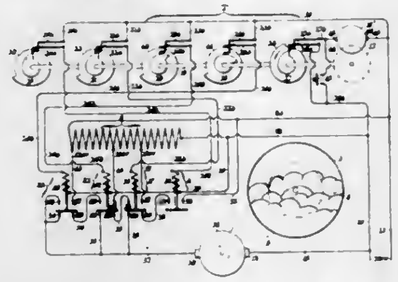
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**2,648,806**

## MOTOR CONTROL FOR CENTRIFUGES

**Clarence F. Dinley, Detroit, Mich., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan**

**Application March 24, 1948, Serial No. 16,868**
**5 Claims. (Cl. 318—163)**



1. The method of accelerating a single phase A. C. electric motor-driven centrifuge or the like with an initially unbalanced load, which comprises impressing upon the motor line voltage for a short time interval sufficient for development of requisite torque to start rotation of the centrifuge, then reducing the voltage to a point for development of requisite torque for acceleration of the centrifuge at a different rate during a predetermined time interval, and thereafter increasing the impressed voltage step by step up to line voltage for development of different degrees of torque requisite for acceleration of the centrifuge at correspondingly different rates during different predetermined time periods whereby the initially unbalanced load is afforded the opportunity to adjust itself within the centrifuge before the latter attains the desired maximum speed.

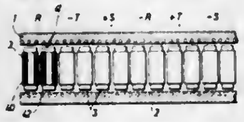
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**2,648,807**

## MECHANICALLY CONTROLLABLE INDUCTION MACHINE

**Friedrich Bauer, Erlangen, Germany, assignor to Siemens - Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany**

**Application November 24, 1950, Serial No. 197,241**
**In Germany December 1, 1948**
**6 Claims. (Cl. 318—214)**



1. A polyphase induction machine, comprising a rotor and a plurality of phase poles corresponding to the respective machine phases, said phase poles being displaceable relative to one another along the rotor periphery between narrow-spaced and maximum-spaced mutual positions, each of said phase poles being composed of a plurality of peripherally spaced partial poles all disposed in a peripheral alignment, said partial poles having respective concentrated windings and being displaceable relative to one another conjointly with said phase poles so that the mutual peripheral spacing of said partial poles changes with a corresponding displacement of said phase poles.



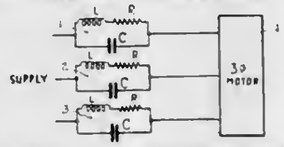
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**2,648,808**

## REACTIVE SPEED-TORQUE CONTROL OF INDUCTION MOTORS

**Roland V. Tiede, Fort Bragg, N. C.**

**Application April 10, 1950, Serial No. 154,901**
**7 Claims. (Cl. 318—229)**




1. A system for speed-torque control of induction motors comprising in combination with an induction motor including a primary and secondary circuit, an alternating current power supply source, connections between the primary circuit of said induction motor and said alternating current power supply source, said connections including a filter circuit containing inductance, capacity and resistance elements electrically connected in a loop circuit disposed in series between said power source and said primary circuit said loop circuit in combination with the input inductance of said induction motor determining a resonant frequency which is lower than the alternating current power supply source frequency for controlling the speed-torque characteristics of said induction motor, by causing its torque to drop rapidly at speeds greater than the synchronous speed corresponding to said resonant frequency, and said loop circuit changing the value of slip for which impedance match between the primary and secondary circuits of the motor exists thus altering its speed-torque characteristic by changing the speed at which maximum torque occurs.

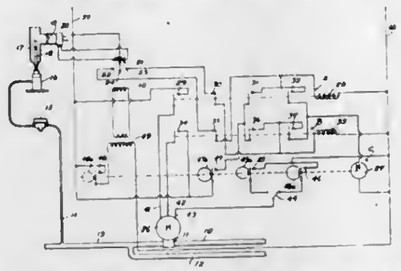
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**2,648,809**

## AUTOMATIC DEVICE FOR CONTROLLING GAS AND AIR MIXTURES

**Frank C. Grimm, Jr., and Dwight K. Taylor, Chicago, Ill., assignors to Connelly, Inc., Chicago, Ill., a corporation of New Jersey**

**Application June 16, 1949, Serial No. 99,526**
**3 Claims. (Cl. 318—264)**



1. In a control apparatus, a pair of relays each having a plurality of contacts, a selector circuit connected to each of said relays through a contact of the other relay to selectively operate one of said relays while disabling the other, a timer switch having a plurality of contacts, said timer switch connected to a contact of each relay to be energized by operation of the selected relay, said selected relay being held operative by energization through a timer contact actuated for a predetermined period by said timer switch, and a reversible motor operating circuit including a contact of each of said relays for actuation by said selected relay to determine the direction of motor operation and a timer contact for actuation by said timer switch during a portion of said relay-holding period to determine the duration of motor operation.

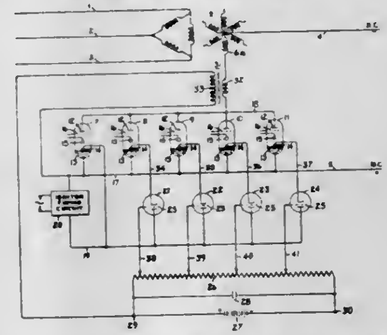
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**2,648,810**

## ELECTRIC CONTROL SYSTEM

**William C. White, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application September 13, 1951, Serial No. 246,460**
**3 Claims. (Cl. 321—27)**



2. In combination a plurality of electric devices each having an anode, a cathode and a control element, said devices having their anode-cathode circuits connected in parallel between an alternating current circuit and a direct current circuit, a circuit for energizing the control elements of said devices, a separate control valve interconnected between said circuit and certain of said control elements, said control valves each having a control grid, said control grids being supplied with a different negative bias, and means for simultaneously supplying a voltage to said control grids which opposes the negative bias supplied to each of said control grids, the magnitude of said voltage being variable as a function of the rate of transfer of energy between said alternating current circuit and said direct current circuit.

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**2,648,811**

## PHASE SHIFTER

**Harry Sohon, Havertown, Pa., and Harry F. Baker, Moorestown, N. J., assignors to Radio Corporation of America, a corporation of Delaware**

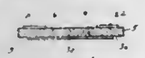
**Application July 20, 1948, Serial No. 39,714**
**3 Claims. (Cl. 321—57)**

1. Phase shifting apparatus comprising, in combination; a first block of resistance material having a flat uniform face, a first rotatable contact arm having one end attached substantially in the center of said flat face, the other end of said contact arm being of such a length and so shaped as to contact said face throughout a 360° rotation of said arm, a second block of resistance material having a flat uniform face, a second rotatable contact arm attached to the

said circuit breakers having a fixed contact, a movable arm carrying a movable contact engageable with the fixed contact, a latch device for holding said movable contact in engagement with said fixed contact, a trip mechanism, and a connection from said movable arm to the trip mechanism constructed so that after said latch releases said movable arm, the electromagnetic forces set up tend to drive the contacts apart, and before said latch latches said contacts in engagement the electromagnetic forces set up by the currents flowing through the contact tend to drive the contact into engagement, and means operative in response to fault currents at or just below the interrupting rating of the breaker for locking said breaker against tripping in response to such fault currents, said means comprising an armature and a latch; said latch directly preventing the operation of said trip.

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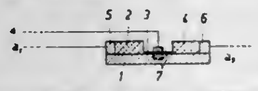
**2,648,804**
**MULTIPLE ELEMENT CIRCUIT COMPONENTS**
**Oliver I. Steigerwalt and Howard I. Oshry, Erie, Pa., assignors to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania**
**Application February 1, 1951, Serial No. 208,954**
**1 Claim. (Cl. 317—101)**



A multiple element printed circuit component comprising a composite unitary fired ceramic plate of uninterrupted coherently united masses of the ceramic and having opposite faces adapted to receive a plurality of printed coatings forming electric circuit impedance elements having properties determined by the electrical properties of the underlying ceramic, said plate comprising a plurality of masses of ceramic of different electrical properties in edgewise relation fired together to make the unitary composite plate, each mass extending contiguously between the opposite faces of the plate and forming a portion of the area of each of said opposite faces and adjoining masses being in non-overlapping relation and of different electrical properties and united by the intermingling which accompanies firing at the region in which the masses are in edgewise contact, and a plurality of coatings printed on the plate on areas respectively corresponding to the different masses of ceramic and forming electric impedance elements having properties determined by the electrical properties of the respective coating and the underlying ceramic.

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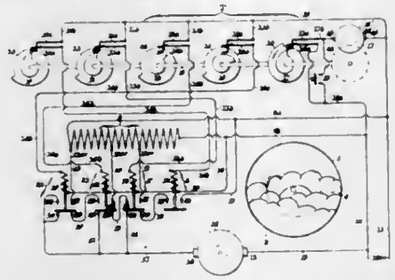
**2,648,805**
**CONTROLLABLE ELECTRIC RESISTANCE DEVICE**
**Eberhard Hermann Georg Spenke, Frank Wenzel Georg Rose, and Erich Gerhard Rudolf Waldkötter, Pretzfeld, Germany, assignors to Siemens-Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany**
**Application October 21, 1950, Serial No. 191,360**
**In Germany May 30, 1949**
**18 Claims. (Cl. 317—235)**



1. A controllable electric resistance device, comprising a resistance body of barrier-layer-forming material forming a current path and having a spot of constricted conductance in said path, current supply means comprising a connector electrode and being conductively joined with said body to pass current through said path, and a barrier electrode joined with said body substantially around said spot and spaced from said connector electrode to permit impressing a voltage across said electrodes.

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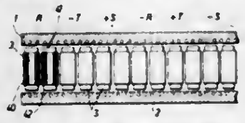
**2,648,806**
**MOTOR CONTROL FOR CENTRIFUGES**
**Clarence F. Dinley, Detroit, Mich., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan**
**Application March 24, 1948, Serial No. 16,868**
**5 Claims. (Cl. 318—163)**



1. The method of accelerating a single phase A. C. electric motor-driven centrifuge or the like with an initially unbalanced load, which comprises impressing upon the motor line voltage for a short time interval sufficient for development of requisite torque to start rotation of the centrifuge, then reducing the voltage to a point for development of requisite torque for acceleration of the centrifuge at a different rate during a predetermined time interval, and thereafter increasing the impressed voltage step by step up to line voltage for development of different degrees of torque requisite for acceleration of the centrifuge at correspondingly different rates during different predetermined time periods whereby the initially unbalanced load is afforded the opportunity to adjust itself within the centrifuge before the latter attains the desired maximum speed.

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**2,648,807**
**MECHANICALLY CONTROLLABLE INDUCTION MACHINE**
**Friedrich Bauer, Erlangen, Germany, assignor to Siemens - Schuckertwerke, Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany**
**Application November 24, 1950, Serial No. 197,241**
**In Germany December 1, 1948**
**6 Claims. (Cl. 318—214)**

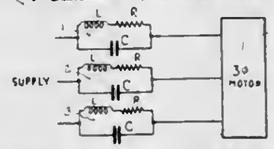


1. A polyphase induction machine, comprising a rotor and a plurality of phase poles corresponding to the respective machine phases, said phase poles being displaceable relative to one another along the rotor periphery between narrow-spaced and maximum-spaced mutual positions, each of said phase poles being composed of a plurality of peripherally spaced partial poles all disposed in a peripheral alignment, said partial poles having respective concentrated windings and being displaceable relative to one another conjointly with said phase poles so that the mutual peripheral spacing of said partial poles changes with a corresponding displacement of said phase poles.



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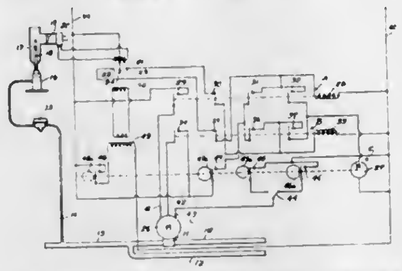
**2,648,808**
**REACTIVE SPEED-TORQUE CONTROL OF INDUCTION MOTORS**
**Roland V. Tiede, Fort Bragg, N. C.**
**Application April 10, 1950, Serial No. 154,901**
**7 Claims. (Cl. 318—229)**




1. A system for speed-torque control of induction motors comprising in combination with an induction motor including a primary and secondary circuit, an alternating current power supply source, connections between the primary circuit of said induction motor and said alternating current power supply source, said connections including a filter circuit containing inductance, capacity and resistance elements electrically connected in a loop circuit disposed in series between said power source and said primary circuit said loop circuit in combination with the input inductance of said induction motor determining a resonant frequency which is lower than the alternating current power supply source frequency for controlling the speed-torque characteristics of said induction motor, by causing its torque to drop rapidly at speeds greater than the synchronous speed corresponding to said resonant frequency, and said loop circuit changing the value of slip for which impedance match between the primary and secondary circuits of the motor exists thus altering its speed-torque characteristic by changing the speed at which maximum torque occurs.

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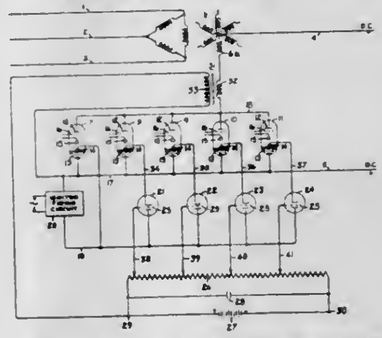
**2,648,809**
**AUTOMATIC DEVICE FOR CONTROLLING GAS AND AIR MIXTURES**
**Frank C. Grimm, Jr., and Dwight K. Taylor, Chicago, Ill., assignors to Connelly, Inc., Chicago, Ill., a corporation of New Jersey**
**Application June 16, 1949, Serial No. 99,526**
**3 Claims. (Cl. 318—264)**



1. In a control apparatus, a pair of relays each having a plurality of contacts, a selector circuit connected to each of said relays through a contact of the other relay to selectively operate one of said relays while disabling the other, a timer switch having a plurality of contacts, said timer switch connected to a contact of each relay to be energized by operation of the selected relay, said selected relay being held operative by energization through a timer contact actuated for a predetermined period by said timer switch, and a reversible motor operating circuit including a contact of each of said relays for actuation by said selected relay to determine the direction of motor operation and a timer contact for actuation by said timer switch during a portion of said relay-holding period to determine the duration of motor operation.

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**2,648,810**
**ELECTRIC CONTROL SYSTEM**
**William C. White, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application September 13, 1951, Serial No. 246,460**
**3 Claims. (Cl. 321—27)**



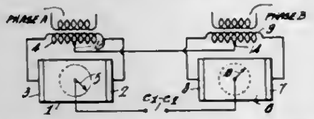
2. In combination a plurality of electric devices each having an anode, a cathode and a control element, said devices having their anode-cathode circuits connected in parallel between an alternating current circuit and a direct current circuit, a circuit for energizing the control elements of said devices, a separate control valve interconnected between said circuit and certain of said control elements, said control valves each having a control grid, said control grids being supplied with a different negative bias, and means for simultaneously supplying a voltage to said control grids which opposes the negative bias supplied to each of said control grids, the magnitude of said voltage being variable as a function of the rate of transfer of energy between said alternating current circuit and said direct current circuit.

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**2,648,811**
**PHASE SHIFTER**
**Harry Sohon, Havertown, Pa., and Harry F. Baker, Moorestown, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application July 20, 1948, Serial No. 39,714**
**3 Claims. (Cl. 321—57)**

1. Phase shifting apparatus comprising, in combination; a first block of resistance material having a flat uniform face, a first rotatable contact arm having one end attached substantially in the center of said flat face, the other end of said contact arm being of such a length and so shaped as to contact said face throughout a 360° rotation of said arm, a second block of resistance material having a flat uniform face, a second rotatable contact arm attached to the

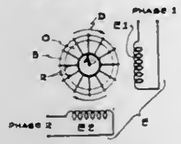
second block similarly to said first contact arm, a first alternating voltage connected across opposite ends of said first block, a second alternating voltage connected across opposite ends of said



second block, said alternating voltages being of different time relationships, an electrical connection between said sources of alternating voltage and a pair of output terminals connected between the contact arms.

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**2,648,812**
**HARMONIC GENERATOR**
**Harold Tornheim, Chicago, Ill.**
**Application June 1, 1951, Serial No. 229,467**
**11 Claims. (Cl. 321—68)**

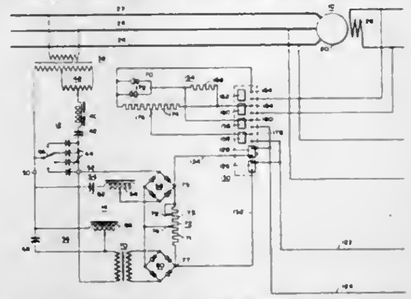


4. In a harmonic generator, in combination, a polyphase electromagnetic winding for producing a rotating transverse magnetic field and a harmonic pickup unit including a magnetic circuit having an internal magnetic core consisting of a tubular iron sleeve, with an external magnetic shell consisting of a tubular iron sleeve shorter than the core sleeve but concentric therewith and radially spaced therefrom; a magnetic generator in said pickup unit adapted when energized to develop a magnetic field extending radially between said core and its surrounding shell; together with an output winding comprising a cylindrical electromagnetic coil consisting of multiple coaxial circular turns of an electrical conductor disposed exteriorly of the internal magnetic core of the device; and a plurality of radial magnetic members extending inwardly across the turns of the output coil from the outer tubular magnetic shell to the magnetic core of the unit and spaced apart from each other.

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**2,648,813**
**REGULATING SYSTEM**
**Schuyler L. Bradley, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 14, 1951, Serial No. 215,547**
**3 Claims. (Cl. 322—28)**

1. In a regulating system for maintaining an electrical quantity substantially constant, the combination comprising, a network disposed to be energized in accordance with the electrical quantity and responsive to variations therein to produce an output voltage, the polarity of which depends upon the magnitude of the electrical quantity, the network comprising a first non-linear impedance circuit and a second non-linear impedance circuit disposed to be simultaneously energized in accordance with the electrical quantity, the first non-linear impedance circuit comprising a saturating reactor and a capacitor connected in series circuit relation, the second non-linear impedance circuit comprising a saturating reactor and a capacitor connected in parallel circuit relation, a dry type rectifier unit connected to be supplied by the first non-linear impedance circuit, another dry type rectifier unit connected to be supplied by the second non-linear impedance circuit, circuit means connected to the output terminals of said dry type rectifier unit and to said another dry type rectifier unit for producing the output voltage for the network, a magnetic amplifier responsive to the output voltage of the network, the magnetic amplifier comprising two pairs of magnetic core members, an alternating-current load winding disposed on each of the magnetic core members, two rectifiers of the dry type for rectifying the output of the amplifier, the amplifier rectifiers having input and output terminals, means for connecting the alternating-current windings on one pair of magnetic core members to the input terminals of one of the amplifier rectifiers and means for connecting the alternating-current windings on the other pair of magnetic core members to the input terminals of the other amplifier rectifier, a control winding disposed on each of the magnetic core members, the direction and magnitude of the current flow through the



control windings being dependent upon the polarity of the output voltage of the network, a biasing winding disposed on each of the magnetic core members, the biasing windings on said one pair of the magnetic core members being responsive to the output of said one of the amplifier rectifiers, the biasing windings disposed on said other pair of the magnetic core members being responsive to the output of said other amplifier rectifier, and the biasing windings on one pair of magnetic core members being so disposed that for a predetermined directional output from the network the flux produced by the current flow through the biasing windings is in magnetic opposition to the flux produced by the current flow through the control windings on the same pair of magnetic core members while the flux produced by the current flow through the biasing windings disposed on the other pair of magnetic core members is additive to the flux produced by the current flow through the control windings on the said other pair of magnetic core members, and control means responsive to the output of the two amplifier rectifiers for controlling the electrical quantity.

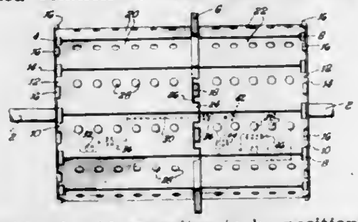
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**2,648,814**
**ULTRAHIGH-FREQUENCY COUPLING MEANS**
**Edwin P. Thias, Los Angeles, Calif., assignor to Standard Coil Products Co., Inc., Chicago, Ill., a corporation of Illinois**
**Application November 22, 1949, Serial No. 128,709**
**6 Claims. (Cl. 323—76)**

6. In a tuning unit comprising a plurality of circuit elements individually mounted on panels; a connection between a pair of said elements



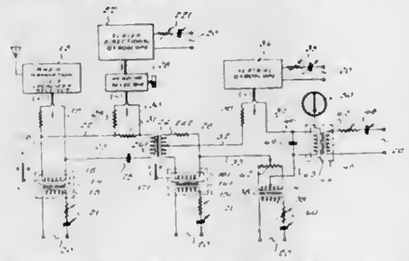
comprising a capacitor; one electrode of said capacitor being carried by one of said panels, the other electrode of said capacitor being carried by the other of said panels; releasable supports for said panels positioning said panels in predetermined relation to each other causing said



electrodes of said capacitor to be positioned at a predetermined spaced relation to each other producing a predetermined capacitance; each of said electrodes extending into one of said panels for connection to said circuit elements carried by said panel.

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**2,648,815**
**ELECTROMECHANICAL AMPLIFIER**
**Norman A. Hassler, Port Washington, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware**
**Application July 20, 1951, Serial No. 237,763**
**18 Claims. (Cl. 323—90)**

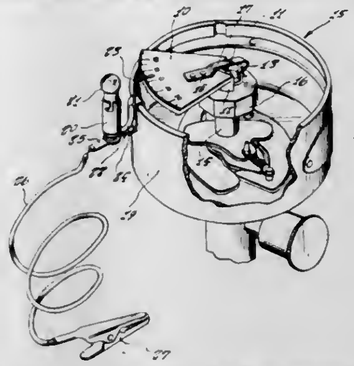


2. A mixer amplifier comprising a plurality of stages, each including a startor and winding thereon connected to an alternating exciting current source and providing a fixed alternating magnetic field and a rotor and winding thereon rotatably mounted in said field, a signal voltage source connected with the rotor winding of a first stage of said amplifier, an output circuit connected with the rotor winding of said first stage including means for tuning said output circuit to unity power factor, a second stage having its rotor winding coupled to receive the output of said first stage, a second output circuit connected with the rotor winding of said second stage and including means for tuning said second output circuit to unity power factor, and means for adjusting the relative phase of the currents supplied to the output circuit of said first stage other than the signal current output of said first stage so that the vector resultant thereof in the rotor winding of said first stage will produce a flux in quadrature with the field flux thereby producing no deflection of said rotor due to such currents.

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**2,648,816**
**IGNITION TESTER**
**Martin Schuch, Elizabeth, N. J.**
**Application September 13, 1952, Serial No. 309,417**
**1 Claim. (Cl. 324—15)**

In an auto distributor having a central rotatable shaft and which includes an auto-condenser, a nut secured to said shaft near the top thereof, and a cylindrical member extending upward from the nut, and a cylindrical housing surrounding the upper portion of the shaft, an ignition tester comprising an arcuate plate, said plate having a circular edge conforming to the curvature of the upper rim of the housing and radially disposed side edges extending inwardly toward the said distributor shaft, said plate having at its inner end a substantially V-shaped cut-out surrounding the said cylindrical member on one side thereof and extending into a downwardly extending flange integrally formed with the said plate, the said flange engaging the said cylindrical member on one side thereof, the lower edge of said flange resting on the said nut, a substantially L-shaped clamp of spring metal rigidly secured to the upper surface of said plate adjacent the said cut-out, said clamp having a downwardly bent free end resiliently engaging the opposite side of the said cylindrical member, said flange being of sufficient height to support the said plate slightly above the rim of the



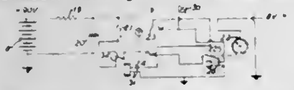
distributor and being formed at substantially right angles thereto whereby to support said plate in substantially horizontal position, a scale disposed on the said plate adjacent said outer circular edge, the divisions of the said scale corresponding with degrees of rotation of the said plate and the shaft of the distributor, the said divisions being numbered outwardly from the center of said outer circular edge on each side thereof, a clamp secured to the upper edge of the said cylindrical housing opposite the circular edge of the said plate, electric signalling means mounted on the said clamp, one terminal of the said signalling means being connected with the said circular housing and the other terminal of the said signalling means being connected with the said auto condenser, and an indicator mounted on the said clamp and extending above and over the scale of the said plate, so that upon turning the said central shaft together with the said plate, the indicator permits reading of the angular displacement of the said central shaft relative to the said circular housing.

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**2,648,817**
**CUTOUT INSPECTION DEVICE**
**George Milton Schiedel, Ypsilanti, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware**
**Application November 2, 1949, Serial No. 125,147**
**6 Claims. (Cl. 324—28)**

3. A relay testing device comprising a neon bulb, means for receiving the relay to be tested, means for applying a varying potential to the operating coil of the relay, means for generating

an electrical impulse upon the operation of the relay being tested, and electrical connections to energize the neon bulb by said impulse, said neon



bulb being shunted by a standard relay and a resistance in series, the operating coil of said standard relay being energized by the same voltage which energizes the relay to be tested.

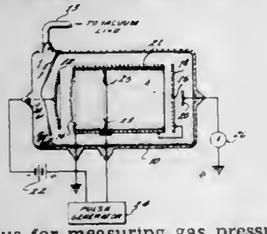
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2,648,818

## GAS PRESSURE MEASURING

**Martin J. Cohen, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application October 14, 1950, Serial No. 190,228**
**12 Claims. (Cl. 324—33)**



1. Apparatus for measuring gas pressure, said apparatus comprising electron beam generating means for projecting a beam of electrons through the gas to be measured, a collecting electrode disposed in the path of said beam, means defining a substantially field-free space between said collecting electrode and said beam generating means wherein to develop by electron bombardment ions of the gas to be measured so as to neutralize space charge effects due to the electrons in said beam, means including an electrode adjacent to said field-free space to periodically remove said ions from said field-free space, and means in circuit with said collecting electrode for measuring the effect of said periodic ion removal on the current flowing to said collecting electrode as a measure of the pressure of said gas.

8. The method of determining gas pressure within an envelope wherein there is provided a substantially field-free space, said method comprising the steps of generating a beam of electrons within said envelope, directing said electron beam through said space to develop therein ions of the gas to be measured, periodically removing said ions from said space, and measuring the time required for new ions to be developed in said space as a measure of the pressure of the gas in said envelope.

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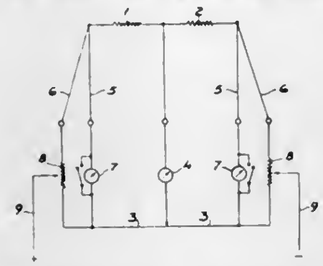
2,648,819

## DEVICE FOR MEASURING RESISTANCE CHANGES

**Gotthard V. A. Gustafsson, Bromma, Sweden**

**Application November 14, 1951, Serial No. 256,222**
**In Sweden November 24, 1950**
**10 Claims. (Cl. 324—62)**

1. In a bridge resistance-measuring circuit for strain gauges or the like, a pair of series-connected resistors, at least one of which is a strain gauge resistor, a slide wire resistor having a sliding contact and two fixed end terminals, a zero-reading current measuring instrument connected between said sliding contact and the midpoint of said series-connected resistors, respective pairs of wires connecting the outer terminal of said slide wire resistor, a current measuring instrument connected in one wire of each pair and a potentiometer resistor connected in the other wire of each pair, a sliding contact for



each of said potentiometer resistors, a current supply connected across said respective last-named sliding contacts, and means for individually short-circuiting said last-named current measuring instruments.

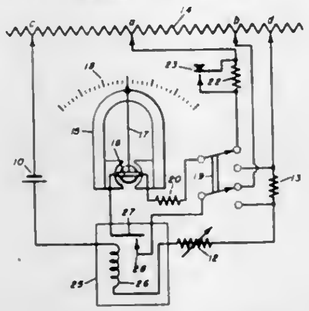
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2,648,820

## DIRECT-READING LOW RANGE OHMMETER

**John H. Miller, Short Hills, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey**

**Application July 12, 1950, Serial No. 173,377**
**6 Claims. (Cl. 324—64)**



1. In a direct-reading ohmmeter of the type comprising a standard resistor connected to a source of D. C. current, means for connecting a resistance to be measured in series with the standard resistor, means for adjusting the current flow through the standard resistor and the resistance to be measured, a D. C. millivoltmeter having a scale calibrated in ohmic values, and a switch operative to connect the said millivoltmeter across the standard resistor or across the resistance to be measured, the improvement comprising a relay having an operating coil connected in series with the resistance to be measured and a set of normally-open contacts connected between the millivoltmeter and the switch.

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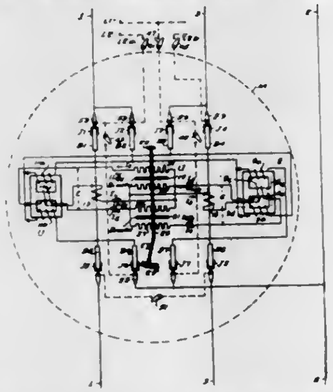
2,648,821

## VAR MEASURING DEVICE

**Ambrose J. Petzinger, Fair Lawn, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application January 29, 1948, Serial No. 5,118**
**10 Claims. (Cl. 324—74)**

1. In an electrical device, a three-phase circuit having three phase conductors, a transformer device having a secondary winding and having two primary windings effective when energized for inducing a voltage in the secondary winding substantially proportional to the vector sum of the energizations of the primary windings, means connecting the primary windings for energization respectively in accordance with the voltages between separate pairs of said phase



conductors for inducing a voltage in the secondary winding substantially in quadrature with the voltage between the remaining pair of said phase conductors, translating means responsive to two alternating quantities and the vector relationship therebetween, and means connecting the translating means for a first energization from said secondary winding and a second energization from the three-phase circuit.

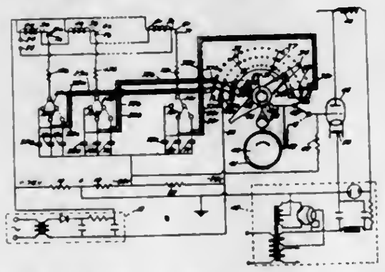
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2,648,822

## WAVE-FORM ANALYZING APPARATUS

**William Grey Walter, Bristol, England**

**Application August 6, 1947, Serial No. 766,707**
**In Great Britain February 11, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires February 11, 1963**
**19 Claims. (Cl. 324—77)**



1. In apparatus of the class described for analysing wave-forms, the combination of a frequency-sensitive device responsive only to a given frequency in the wave-form under analysis, a timer operative over a predetermined time intervals, an independent circuit connected to and under control of said frequency-sensitive device and of said timer and including a storage unit to store and integrate the controlled energy of the independent circuit over said predetermined time interval, whereby the amount of energy stored and integrated over the predetermined time interval is proportional to the amount of the given frequency in the waveform under analysis, and an indicator connected to said storage unit to provide a quantitative indication of the content of the storage unit and hence of the amount of the given frequency in the wave form under analysis.

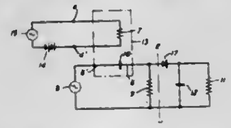
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2,648,823

## THERMOELECTRIC TRANSLATION DEVICE

**Winston E. Kock, Basking Ridge, and Luther G. Schimpf, New Providence, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application January 6, 1950, Serial No. 137,206**
**20 Claims. (Cl. 332—4)**



1. In combination, a body of ferroelectric material, a pair of electrodes dielectrically coupled through said body, means for maintaining said body thermally biased to a temperature within a substantially linear range of variations on the steep, linear portion of the dielectric constant-temperature characteristic near a transition temperature of said material, and an electrical heater in heat transfer relation with said body for varying the temperature of said material within said range in accordance with impressed signal currents.

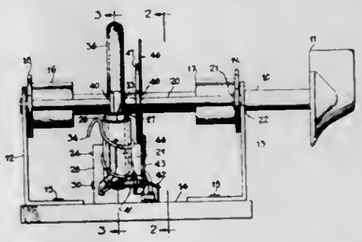
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2,648,824

## MULTIBAND TUNER

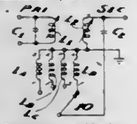
**Vincent P. Friberg, Lyndhurst, N. J., assignor to Automatic Manufacturing Corporation, Newark, N. J., a corporation of New Jersey**

**Application January 16, 1951, Serial No. 206,245**
**19 Claims. (Cl. 336—77)**



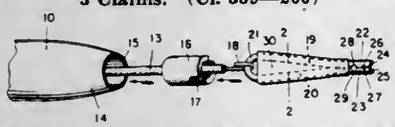
1. A multi-band tuner comprising a coil element; a core element mounted adjacent said coil element, said core element having a first portion of magnetic material of low conductivity and a second portion of relatively high conductivity and said core element and said coil element being movable with respect to each other; means for moving one of said elements with respect to the other of said elements; and switch means connected to said coil element and adapted to switch a portion of said coil element out of circuit with another portion of said coil element, said switch means being connected with said moving means and being operated thereby in the position thereof in which a predetermined one of said portions of said core element is adjacent said other portion of said coil element.

2,648,825
## VARIABLE INTERMEDIATE FREQUENCY TRANSFORMER
Arthur Eberhardt, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application November 19, 1951, Serial No. 257,030
4 Claims. (Cl. 336—131)



1. A variable intermediate frequency transformer comprising, a pair of end plates, a first coil form mounted between the end plates, the primary of said transformer wound about said coil form, a second coil form mounted between said end plates, the secondary of said transformer mounted on said second coil form so as to be loosely coupled to the primary winding, a plurality of tertiary windings all having the same number of turns mounted longitudinally along the first coil form, one side of each tertiary winding connected electrically to one side of the secondary winding, and a selector switch connected to the other side of said secondary winding and selectively engageable with the opposite sides of said tertiary windings.

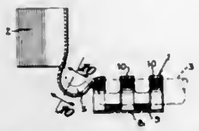
2,648,826
## ELECTRICAL TEST PROBE
Arthur Raymond Jubenville, Huntington, N. Y.
Application July 10, 1950, Serial No. 172,827
3 Claims. (Cl. 339—200)



2. An electrical test probe comprising an elongated electrically insulated body portion having a longitudinal bore therethrough, a test lead wire extending through said bore in said body portion, an end of said body portion having an enlarged opening coaxial with said bore, a conductive coupler fitting through pressing into said enlarged opening and enclosing said test lead wire, a tip secured to said test lead wire comprising a single piece of wire of high elasticity which is bent to form a substantially large flat rear portion and two converging arm portions which terminate in parallel contacting portions, and said coupler having a diametrical slot in an end into which said substantially flat rear portion is attached whereby said parallel arm portions are in normal contact with one another due to the bent shape of the tip and the inherent elastic nature of the bent wire and to prevent rotation of said tip with respect to said conductive coupler and said body portion.

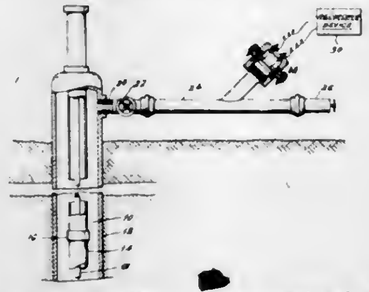
2,648,827
## ELECTRICAL SOCKET CONNECTOR FORMED BY ALTERNATE BANDS
Harry A. Knollman, Mount Orab, Ohio, assignor to a partnership composed of Fred G. Krueger and Fred H. Hudepohl, doing business as Krueger and Hudepohl, Cincinnati, Ohio
Application January 19, 1952, Serial No. 267,225
5 Claims. (Cl. 339—256)

1. An electrical connector adapted to be attached to a lead wire to provide a connection from the wire to a cylindrical terminal post, said connector comprising; a thimble member having a shank joined to one end thereof, the shank adapted to be attached to an end of the lead wire and the thimble member adapted to be slipped telescopically upon an end portion of the terminal post, the thimble member constituting a generally cylindrical sleeve having a cylindrical internal bore which is continuous circumferentially and interrupted longitudinally, the bore constituted by a row of alternate internal and external bands which are transverse to the axis of the



sleeve and semi-circular in cross section facing one another, the internal semi-circular bands being severed transversely from the peripheral wall of the sleeve and having their opposite ends joined to the wall of the sleeve at diametrically opposite sides of the sleeve, the internal bands being engaged against the internal surface of the sleeve whereby the internal bands are reinforced by the sleeve and said internal and external bands complement one another in staggered relationship and are adapted to embrace snugly the entire periphery of the cylindrical terminal post when the thimble member is slipped thereon.

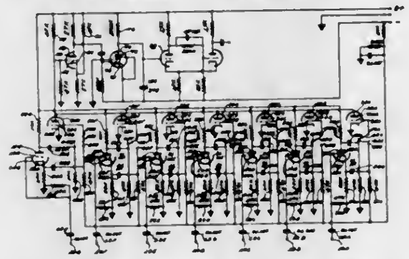
2,648,828
## MICROPHONE
Charles F. Teichmann, Crestwood, N. Y., assignor to Texaco Development Corporation, New York, N. Y., a corporation of Delaware
Application April 13, 1949, Serial No. 87,168
1 Claim. (Cl. 340—13)



A device for measuring compressional wave vibrations in a gaseous medium, comprising a housing open at one side to expose the interior to said medium, a flexible, resilient diaphragm disposed across the interior of said housing so as to respond in movement to waves passing through the gaseous medium, an electrical wire conductor the electrical resistance of which varies in accordance with the stretching or contracting thereof, said conductor being imbedded in to said diaphragm substantially across the center thereof so that said waves in impinging on the diaphragm will distort the diaphragm to vary the length of the conductor, means connected to said conductor for indicating the variations in electrical resistance thereof produced by said distortions, and means for relieving said diaphragm from abnormal pressures in said gaseous medium comprising a normally closed valve member secured to the back of said diaphragm over an opening therein and adapted to uncover said opening when said abnormal pressures are exerted.

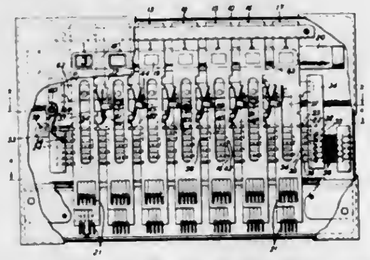


2,648,829
## CODE RECOGNITION SYSTEM
William R. Ayres, Camden, and Joel N. Smith, Westmont, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 21, 1952, Serial No. 294,864
9 Claims. (Cl. 340—147)



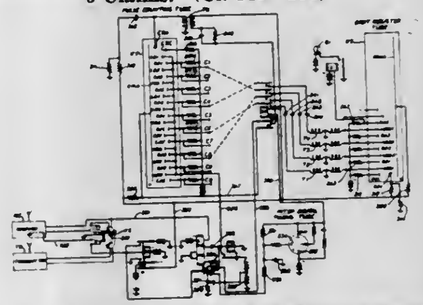
2. A binary digit code recognition system comprising a plurality of input terminals to which signals representing said code are applied, one of said terminals being provided for each digit position in said code, a plurality of electron discharge tubes, one for each digit position in said code, a first means for each digit position in said code to generate a tube cut-off pulse and a tube conductive pulse responsive to the application of one of two digit representative signals, a plurality of first and second terminals, means coupling each of said first terminals to a different one of said first means to derive said cut-off pulse output, means coupling each of said second terminals to a different one of said second means to derive said conductive pulse output, means to apply a tube cut off bias to each of said second terminals in the absence of output from said first means, means to selectively couple each of said plurality of tubes to a different one of said first or said second terminals in accordance with the code desired to be recognized, and means to provide a code recognition output signal responsive to all said tubes simultaneously being cut off.

2,648,830
## SELECTIVE PLURAL DIGIT INDICATOR
John M. Melick, Cresskill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 143,768
15 Claims. (Cl. 340—154)



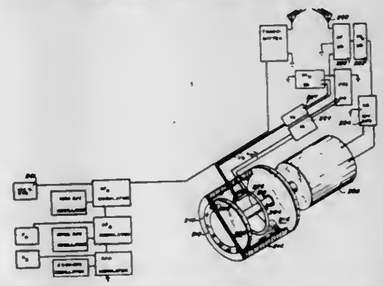
1. In a digit recording apparatus, a plurality of groups of cards, a series of code bars for selecting one of the cards in each of said groups of cards, means for selectively operating said code bars, and means controlled by said code bar operating means for successively permitting the selected card in successive ones of said groups of cards to be displaced.

2,648,831
## SELECTIVE SIGNALING SYSTEM
Edward Vroom, Ossining, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 30, 1950, Serial No. 182,242
6 Claims. (Cl. 340—164)



1. In a signaling system, a gaseous conduction device having an anode and a plurality of cathodes and responsive to electrical impulses applied thereto to advance the conductive path therethrough step by step so that said path exists between said anode and successive ones of said cathodes, an impulse generator connected to said device and operable to transmit a series of groups of electrical impulses representing the elements of a code, counting means operable to count electrical indications applied thereto, apparatus operable at the termination of each of said groups of impulses for connecting only successive preselected ones of said cathodes to said counting means and to then restore said device to normal, said device being operative to transmit electrical indications to said counting means if the conductive path through said device successively includes said successive preselected ones of said cathodes, and signal means operable by said counting means if said counting means has counted a number of said electrical indications equal to the number of elements of said code.

2,648,832
## TIME SYSTEM
Ervin G. Johnson, Eureka, Calif.
Application September 3, 1946, Serial No. 694,622
13 Claims. (Cl. 340—177)



1. In a time indicating system requiring means for producing alternating current waves having

dual periodicity: means for generating a first sine wave of alternating current; means like the first generating means for generating a second sine wave of alternating current at a like order of frequency of alternation as said first sine wave, means for causing the phase relation between said waves to be altered at a uniform rate, and means for combining the effects of said waves to produce a wave having two periodicities.

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2,648,833

## MEANS FOR MEASURING TENSION IN BOLTS

Winfred E. Wilson, Los Angeles, and John T. Wilson, San Marino, Calif.

Application April 5, 1951, Serial No. 219,413
2 Claims. (Cl. 340—213)



1. In a measuring apparatus as disclosed, a lower plate, an upper plate, an intermediate soft metal plate, a plate of insulation between said lower plate and said intermediate plate, a second plate of insulation between said intermediate plate and said upper plate, a signal circuit connected to said soft metal plate and to said upper metal plate, said second insulation plate being provided with an opening therein through which opening the soft metal in said intermediate soft metal plate is upset through said opening in said insulation plate in contact with said upper metal plate, for closing said signal circuit to operate a signal, under a predetermined load applied to said upper metal plate.

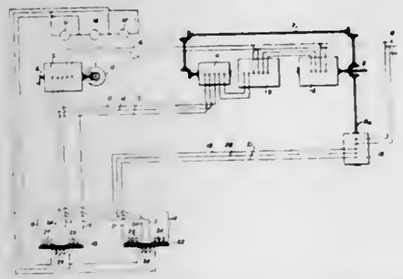
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2,648,834

## POSITIONAL CORRESPONDENCE INDICATOR FOR SERVO MECHANISMS

Edward Lohse, Brooklyn, and Stanley H. Gross, New York, N. Y., assignors to Control Instrument Company, Inc., Brooklyn, N. Y., a corporation of New York

Application June 24, 1950, Serial No. 170,122
5 Claims. (Cl. 340—268)



1. In a device to indicate lack of positional correspondence in a servo mechanism having a positionable input means and a positioning output means responsive thereto, the combination comprising means coacting with said positionable input means for generating a plurality of variable voltages in phase with each other and whose relative magnitudes and instantaneous polarities are a unique function of the position of said input means, means coacting with said positioning output means for generating a plurality of variable voltages in phase with each other and whose relative magnitudes and instantaneous polarities are a unique function of the position of said positioning output means, means for comparing the two sets of voltages thus obtained, and indicating means responsive to said comparing means for actuation thereby in the event that said voltages do not compare.

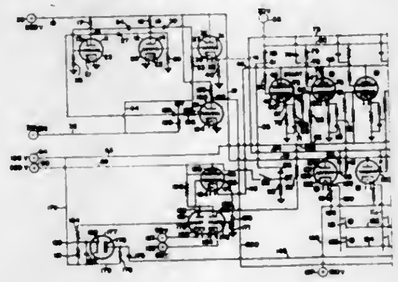
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2,648,835

## ELECTRONIC IMPULSE GENERATOR

Carl F. Rench, Troy, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application December 17, 1949, Serial No. 133,540, now Patent No. 2,591,007, dated April 1, 1952. Divided and this application March 14, 1951, Serial No. 215,483
12 Claims. (Cl. 340—345)



1. In an impulse generator, the combination of a plurality of impulse-train-generating electronic devices, one of said devices being provided for each of the digits "9" through "1" and each of the devices having at least a pair of main electrodes and means to control conduction therebetween; a low-impedance operating potential supply circuit for each of said devices, the circuit for each device containing a low impedance in the circuit to one of the main electrodes, across which impedance a strong impulse is generated each time the device operates; means for supplying driving impulses to the conduction control means of the plurality of devices; control means coupled to the conduction control means of the devices for normally rendering each of the devices non-responsive to the driving impulses, said control means being operable to render the devices responsive to the number of driving impulses corresponding to the digit which it represents, whereby to produce, at said one of the main electrodes of each device, an impulse train which contains the corresponding number of impulses; a plurality of separate output conductors; and means selectively coupling the output conductors to desired ones of said one main electrodes to enable the desired ones of said impulse trains to be impressed on the conductors, said low-impedance sources for the trains of impulses minimizing cross-talk between output conductors and also generating strong impulses whose quality is not impaired even when they are switched simultaneously to a plurality of output conductors.

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2,648,836

## APPARATUS FOR GENERATING TIME POSITION DIAL PULSES

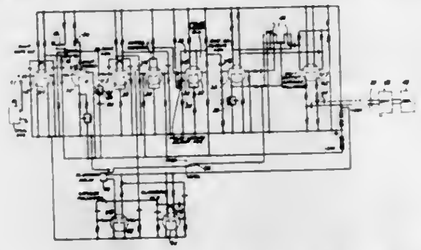
Neal D. Newby, Leonia, and Henry E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application November 17, 1949, Serial No. 127,912
2 Claims. (Cl. 340—349)

1. In combination, a telephone calling arrangement comprising a source of regularly recurring



cyclic current, apparatus connected to said source for repeatedly generating regularly recurring pulses from said source, control apparatus connected to said source for controlling the rate of recurrence of said pulses, means interconnected with said source for generating other pulses from said source which pulses are interposed between said regularly recurring pulses, apparatus connected to said means for con-



trolling the time of generation of each of said other pulses at any one of an infinite plurality of different times between said regularly recurring pulses, pulse-forming apparatus interconnected with said means for forming a pulse having a wave form of substantially a single cycle of a sine wave under control of each of said pulses and means for suppressing the transmission of all of said pulses for predetermined regularly recurring intervals of time.

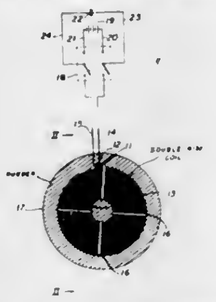
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2,648,837

## PULSED SOUND SYSTEM

Whitman D. Mounce, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application March 10, 1952, Serial No. 275,810
5 Claims. (Cl. 340—400)



1. A system for converting electric energy to acoustic energy comprising two elongated and substantially equi-length portions of metallic conductor electrically joined in series at one end and providing a free end of each portion, said portions being formed into two substantially identical spiro-form coils, means for electrically insulating successive turns of said coils, a vulcanized rubber body having said coils encased and embedded therein in close proximity and coaxial relationship to each other, and means electrically connected to the free ends of said portions for producing a transient flow of current therein.

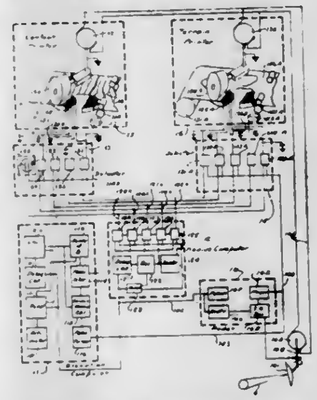
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2,648,838

## INDICATING AND RECORDING SYSTEMS

Richard C. Raymond, State College, Pa., assignor to Haller, Raymond and Brown, Inc., State College, Pa., a corporation

Application July 27, 1949, Serial No. 107,005
21 Claims. (Cl. 343—11)



1. In an airborne map printing system, radio means for detecting objects of terrain, means responsive to the output of said radio means to print a map of the objects of terrain, said last-named means including printing means for printing the map, additional means responsive to the output of the radio means for separately printing contour lines of the terrain, said additional means including printing means for printing contour lines, and means for synchronizing the two printing means so that contour lines as printed by the second printer are the contour lines of the terrain printed by the first printer.

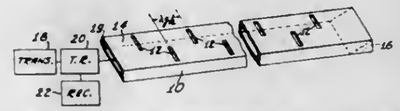
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2,648,839

## DIRECTION FINDING ANTENNA SYSTEM

John R. Ford, Narberth, Pa., and Waldon Pearson Bollinger, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application October 2, 1950, Serial No. 187,992
3 Claims. (Cl. 343—100)

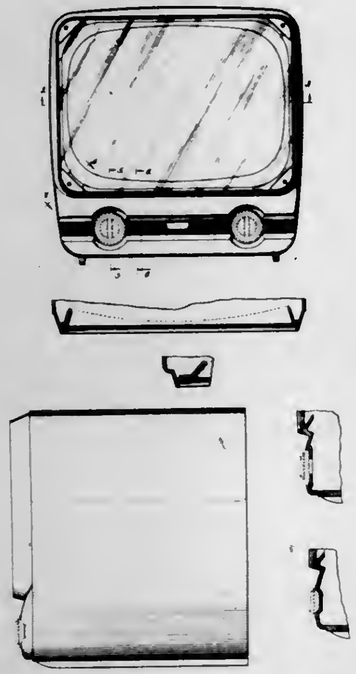


1. In a system for radiating or receiving energy and having a long leaky waveguide, the method of operation comprising the step of exciting said waveguide with a succession of pulses of high frequency energy the time duration of each of which is substantially less than the time required for said pulse energy to traverse the length of said waveguide.

# DESIGNS

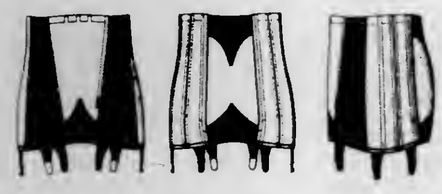
AUGUST 11, 1953

**170,140**
**TELEVISION CABINET**
**Samuel E. Adler, Chicago, Ill.**
**Application February 27, 1953, Serial No. 23,829**
**Term of patent 14 years**
**(Cl. D56—4)**



The ornamental design for a television cabinet, as shown and described.

**170,141**
**GIRDLE**
**Gaylord A. Barcley, St. Petersburg, Fla.**
**Application May 3, 1952, Serial No. 19,578**
**Term of patent 14 years**
**(Cl. D20—2)**



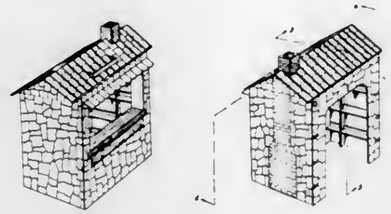
The ornamental design for a girdle, as shown.

**170,142**
**GIRDLE**
**Gaylord A. Barcley, St. Petersburg, Fla.**
**Application May 3, 1952, Serial No. 19,579**
**Term of patent 14 years**
**(Cl. D20—2)**



The ornamental design for a girdle, as shown.

**170,143**
**TOY STORE**
**Albert E. Beethoven, Brooklyn, N. Y., assignor to Toymaster Products Co., Inc., Passaic, N. J., a corporation of New Jersey**
**Application February 26, 1953, Serial No. 23,801**
**Term of patent 14 years**
**(Cl. D34—15)**

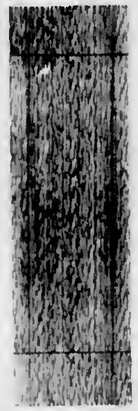


The ornamental design for a toy store, as shown.



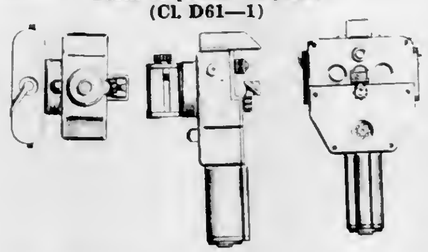


**170,144**
**EMBOSSED DECORATIVE PANELING**
**Lawrence G. Buckley, Olympia, Wash., assignor of one-eighth to Barbara Buckley Berken, Seattle, Wash., one-eighth to Kathleen Buckley Ogle, Mercer Island, Wash., and one-eighth to Elizabeth Buckley Martin, Eugene, Oreg.**
**Application February 28, 1950, Serial No. 8,187**
**Term of patent 14 years**
**(Cl. D59—10)**



The ornamental design for an embossed decorative paneling, substantially as shown and described.

**170,145**
**PHOTOGRAPHIC CAMERA**
**Gustav Bucky, New York, N. Y.**
**Application March 10, 1953, Serial No. 23,971**
**Term of patent 14 years**
**(Cl. D61—1)**



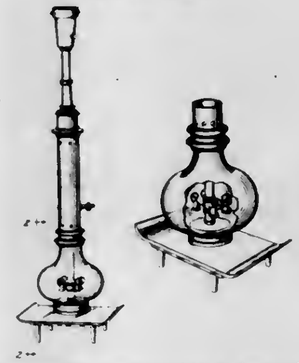
The ornamental design for a photographic camera, as shown.

**170,146**
**WALKING TOY**
**Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York**
**Application January 22, 1953, Serial No. 23,258**
**Term of patent 7 years**
**(Cl. D34—2)**



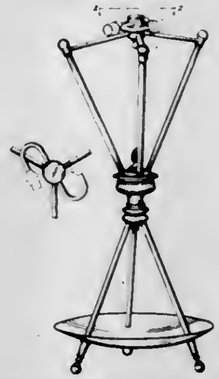
The ornamental design for a walking toy, substantially as shown.

**170,147**
**BASE FOR TABLE LAMPS**
**Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois**
**Application February 25, 1953, Serial No. 23,791**
**Term of patent 7 years**
**(Cl. D48—20)**



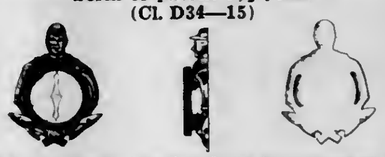
The ornamental design for a base for table lamps, as shown.

**170,148**
**BASE FOR TABLE LAMPS**
**Edwin I. Cole, Eagle, Wis., assignor to The Stiffel Company, Chicago, Ill., a corporation of Illinois**
**Application February 25, 1953, Serial No. 23,796**
**Term of patent 7 years**
**(Cl. D48—20)**



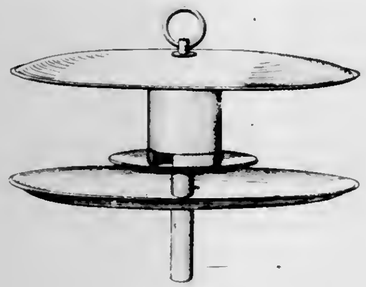
The ornamental design for a base for table lamps, as shown described.

**170,149**
**TOY COMPASS**
**Lawrence E. Cooke, Houston, Tex.**
**Application May 3, 1952, Serial No. 19,575**
**Term of patent 3½ years**
**(Cl. D34—15)**



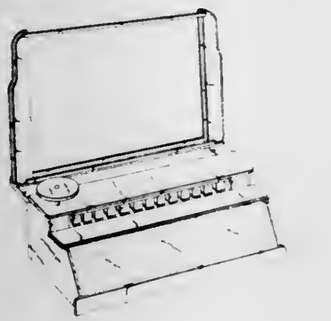
The ornamental design for a toy compass, substantially as shown.

**170,150**
**BIRD FEEDER OR SIMILAR ARTICLE**
**Henry B. Cowap, Evanston, Ill.**
**Application September 17, 1952, Serial No. 21,508**
**Term of patent 14 years**
**(Cl. D31—2)**



The ornamental design for a bird feeder or similar article, substantially as shown.

**170,151**
**DISPLAY ADVERTISING DEVICE**
**William Danziger and Victor Achison, New York, N. Y.**
**Application April 29, 1953, Serial No. 24,755**
**Term of patent 3½ years**
**(Cl. D80—11)**





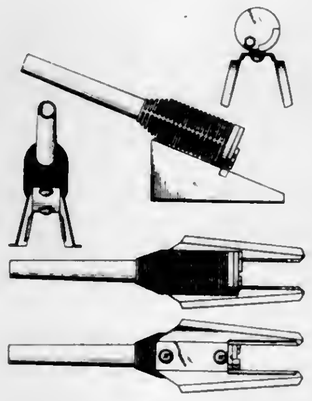
The ornamental design for a display advertising device, as shown.

**170,152**
**COMBINED LAMPPOST AND SIGN**
**Howard A. Daum, Pittsburgh, Pa.**
**Application September 17, 1952, Serial No. 21,507**
**Term of patent 14 years**
**(Cl. D48—31)**



The ornamental design for a combined lamppost and sign, as shown.

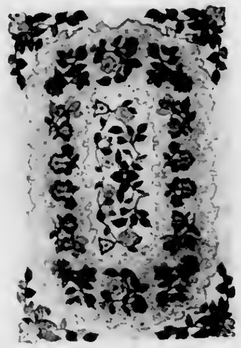
**170,153**
**FIRECRACKER CANNON**
**Douglas P. Davis and Duane C. Maddux, Burbank, Calif.**
**Application March 26, 1953, Serial No. 24,206**
**Term of patent 3½ years**
**(Cl. D34—15)**



The ornamental design for a firecracker cannon, substantially as shown.



**170,154**
**RUG OR SIMILAR ARTICLE**
**Magdalene R. Denes, New York, N. Y.**
**Application March 9, 1953, Serial No. 23,957**
**Term of patent 14 years**
**(Cl. D92—21)**



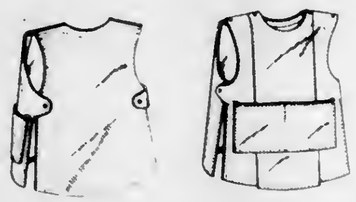
The ornamental design for a rug or similar article, substantially as shown.

**170,155**
**SPECTACLE FRAME ORNAMENT**
**Anthony Di Chiara, Newark, N. J., assignor to Liberty Optical Company, Inc., Newark, N. J.**
**Application August 4, 1952, Serial No. 20,892**
**Term of patent 14 years**
**(Cl. D57—1)**



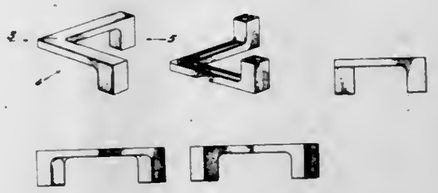
The ornamental design for a spectacle frame ornament, as shown.

**170,156**
**CHILD'S COVERALL-APRON**
**Ann Hagan, New York, N. Y.**
**Application March 26, 1953, Serial No. 24,207**
**Term of patent 14 years**
**(Cl. D3—26)**



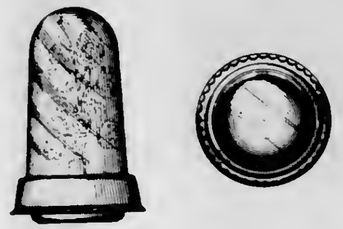
The ornamental design for a child's coverall-apron, as shown.

**170,157**
**PULL FOR DRAWERS, CABINET DOORS AND THE LIKE**
**Don Heyer, El Monte, Calif.**
**Application October 10, 1952, Serial No. 21,777**
**Term of patent 14 years**
**(Cl. D10—8)**



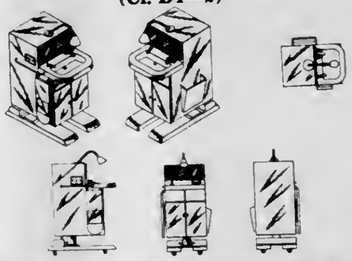
The ornamental design for a pull for drawers, cabinet doors and the like, as shown.

**170,158**
**ILLUMINABLE FLORAL AQUARIUM**
**Charles E. Jones, Chicago, and Robert H. Crowle, Berwyn, Ill., assignors, by mesne assignments, to Emanuel J. Rice and Al B. Wolf, doing business as Flora-Lite Company, Chicago, Ill.**
**Application September 9, 1952, Serial No. 21,391**
**Term of patent 7 years**
**(Cl. D91—2)**



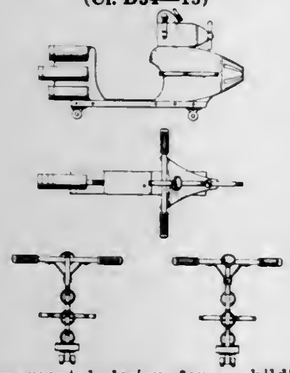
The ornamental design for an illuminable floral aquarium, substantially as shown and described.

**170,159**
**PORTABLE LAVATORY**
**Isadore Levin, Washington, D. C.**
**Application March 12, 1953, Serial No. 24,000**
**Term of patent 14 years**
**(Cl. D4—2)**



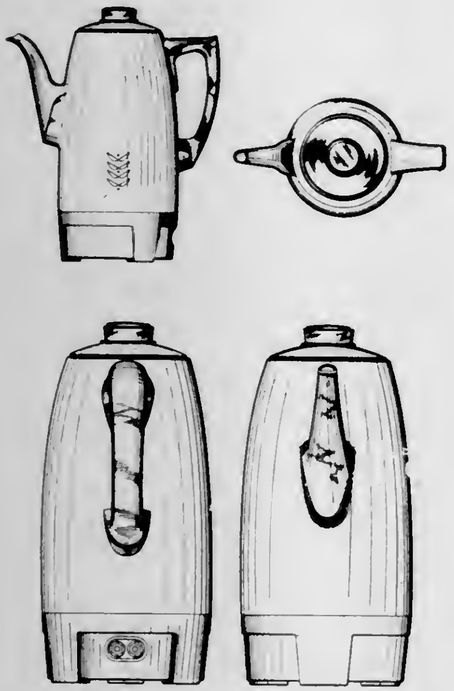
The ornamental design for a portable lavatory, as shown.

**170,160**
**CHILD'S SCOOTER**
**Ferdinand R. Minozzi, Yonkers, N. Y.**
**Application January 27, 1953, Serial No. 23,318**
**Term of patent 14 years**
**(Cl. D34—15)**



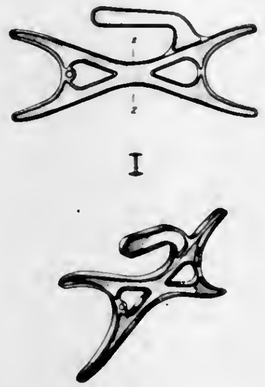
The ornamental design for a child's scooter, as shown.

**170,161**
**ELECTRIC PERCOLATOR**
**Robert C. Nicolay, Wooster, Ohio**
**Application October 25, 1952, Serial No. 21,979**
**Term of patent 14 years**
**(Cl. D44—26)**



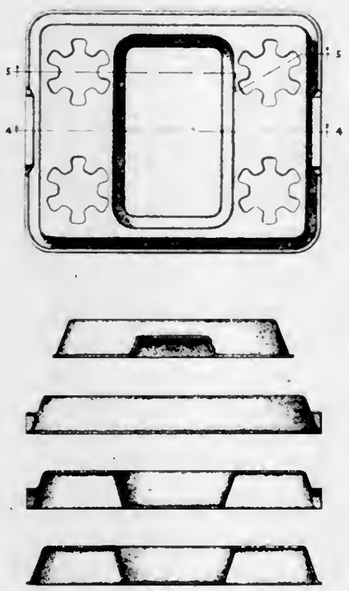
The ornamental design for an electric percolator, substantially as shown.

**170,162**
**CLOTHESLINE REEL**
**Axel E. Ogren, Chicago, Ill.**
**Application December 19, 1952, Serial No. 22,775**
**Term of patent 7 years**
**(Cl. D49—1)**



The ornamental design for a clothesline reel, substantially as shown.

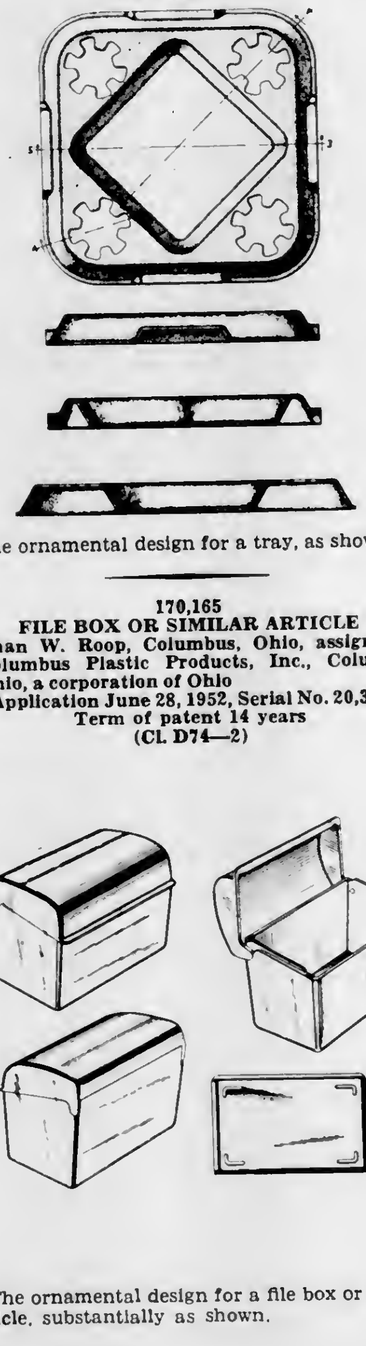
**170,163**
**CARRYING TRAY**
**Walter H. Randall, Waterville, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine**
**Application November 21, 1952, Serial No. 22,391**
**Term of patent 14 years**
**(Cl. D44—10)**



The ornamental design for a carrying tray, as shown.



**170,164**
**TRAY**
**Walter H. Randall, Waterville, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine**
**Application November 21, 1952, Serial No. 22,392**
**Term of patent 14 years**
**(Cl. D44—10)**



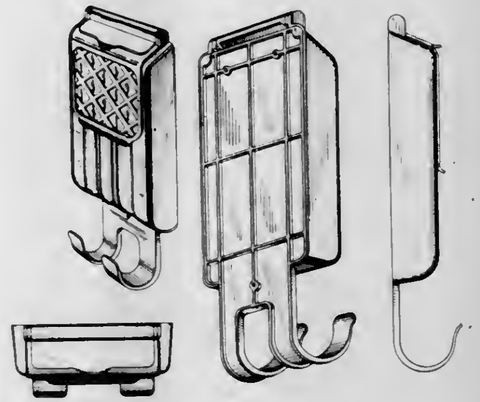
The ornamental design for a tray, as shown.

**170,165**
**FILE BOX OR SIMILAR ARTICLE**
**Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio**
**Application June 28, 1952, Serial No. 20,392**
**Term of patent 14 years**
**(Cl. D74—2)**



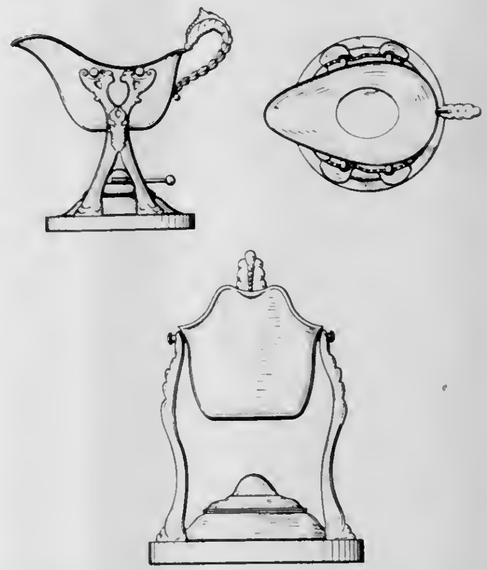
The ornamental design for a file box or similar article, substantially as shown.

**170,166**
**MAILBOX OR SIMILAR ARTICLE**
**Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio**
**Application September 22, 1952, Serial No. 21,540**
**Term of patent 14 years**
**(Cl. D74—9)**



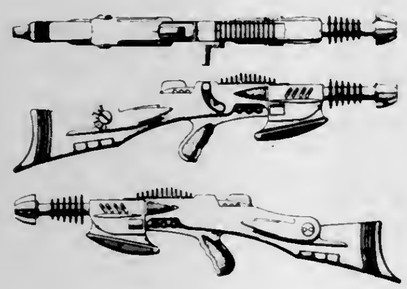
The ornamental design for a mailbox or similar article, substantially as shown.

**170,167**
**GRAVY BOAT OR THE LIKE**
**Martin Rosen, Flushing, N. Y.**
**Application March 4, 1953, Serial No. 23,877**
**Term of patent 14 years**
**(Cl. D44—15)**



The ornamental design for a gravy boat or the like, as shown.

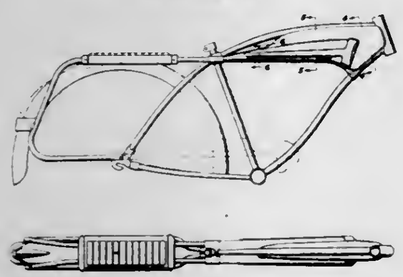
**170,168**
**TOY GUN**
**Grover C. Schaible, Westfield, N. J., assignor to Pyro Plastics Corporation, Union, N. J., a corporation of New Jersey**
**Application February 19, 1953, Serial No. 23,687**
**Term of patent 14 years**
**(Cl. D34—15)**



The ornamental design for a toy gun, substantially as shown.

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**170,169**
**BICYCLE FRAME**
**Viktor Schreckengost, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio**
**Application April 27, 1953, Serial No. 24,678**
**Term of patent 14 years**
**(Cl. D90—8)**



The ornamental design for a bicycle frame, substantially as shown and described.

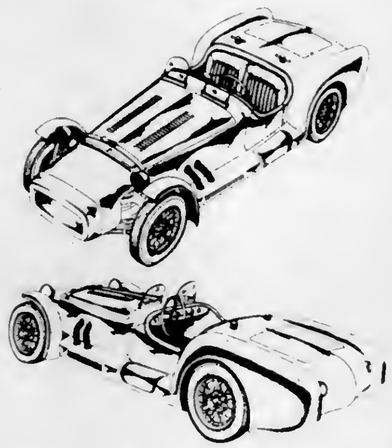
**170,170**
**BOTTLE**
**Abraham Y. Schultz, University City, Mo.**
**Application January 7, 1953, Serial No. 23,044**
**Term of patent 14 years**
**(Cl. D58—6)**



The ornamental design for a bottle, as shown and described.

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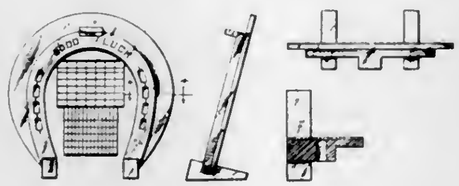
**170,171**
**AUTOMOBILE**
**Clifford Brooks Stevens, Milwaukee, Wis.**
**Application January 30, 1953, Serial No. 23,373**
**Term of patent 3½ years**
**(Cl. D14—3)**



The ornamental design for an automobile, as shown.

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**170,172**
**CALENDAR OR THE LIKE**
**Samuel Tylon, Cleveland, Ohio**
**Application October 23, 1952, Serial No. 21,948**
**Term of patent 14 years**
**(Cl. D74—5)**



The ornamental design for a calendar or the like, as shown.



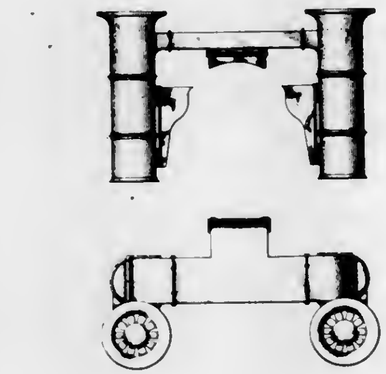
**170,173**
**PITCHER OR SIMILAR ARTICLE**
**Carl J. Uhrmann, Bellaire, Ohio, assignor to Imperial Glass Corporation, Bellaire, Ohio, a corporation of Ohio**
**Application February 24, 1953, Serial No. 23,734**
**Term of patent 14 years**
**(Cl. D36—2)**



The ornamental design for a pitcher or similar article, substantially as shown.

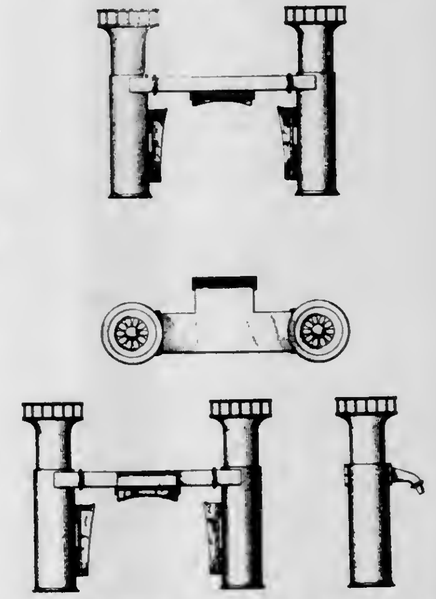
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**170,174**
**AUTOMOTIVE VEHICLE DRYING UNIT**
**James Vani and Albert J. Malpede, Chicago, Ill., assignors to Service Metal Fabricators, Inc., Chicago, Ill., a corporation of Illinois**
**Application March 18, 1953, Serial No. 24,070**
**Term of patent 14 years**
**(Cl. D49—1)**



The ornamental design for an automotive vehicle drying unit, substantially as shown.

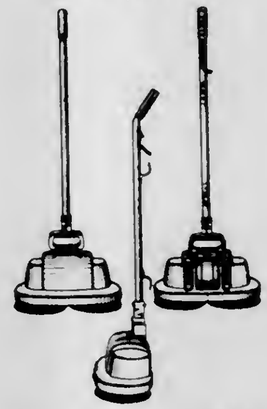
**170,175**
**AUTOMOTIVE VEHICLE DRYING UNIT**
**James Vani and Albert J. Malpede, Chicago, Ill., assignors to Service Metal Fabricators, Inc., Chicago, Ill., a corporation of Illinois**
**Application March 18, 1953, Serial No. 24,071**
**Term of patent 14 years**
**(Cl. D49—1)**



The ornamental design for an automotive vehicle drying unit, substantially as shown.

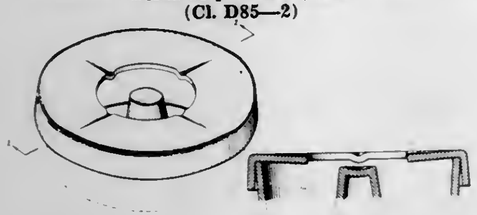
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**170,176**
**FLOOR POLISHING MACHINE**
**Edward L. Verhagen, Rahway, N. J., assignor to The Regina Corporation, Rahway, N. J., a corporation of New York**
**Application September 17, 1952, Serial No. 21,495**
**Term of patent 14 years**
**(Cl. D9—2)**



The ornamental design for a floor polishing machine, substantially as shown.

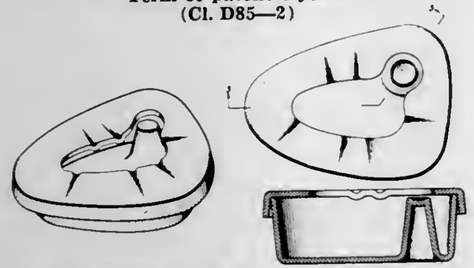
**170,177**
**ASH TRAY**
**Robert Wood, Red Bank, N. J.**
**Application July 16, 1952, Serial No. 20,623**
**Term of patent 7 years**
**(Cl. D85—2)**



The ornamental design for an ash tray, as shown and described.

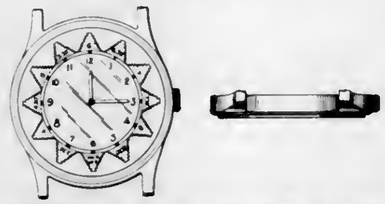
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**170,178**
**ASH TRAY**
**Robert Wood, Red Bank, N. J.**
**Application July 16, 1952, Serial No. 20,624**
**Term of patent 7 years**
**(Cl. D85—2)**



The ornamental design for an ash tray, as shown.

**170,179**
**WRIST WATCH**
**Alfred Wyler, Rye, N. Y.**
**Application September 11, 1952, Serial No. 21,406**
**Term of patent 3½ years**
**(Cl. D42—8)**



The ornamental design for a wrist watch, substantially as shown.

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**170,130**
**CONDIMENT CONTAINER OR THE LIKE**
**Manuel S. Ziskin, Mayfield Heights, and Ralph B. Billig, Willoughby, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio**
**Application March 2, 1953, Serial No. 23,831**
**Term of patent 14 years**
**(Cl. D44—22)**



The ornamental design for a condiment container or the like, substantially as shown.

August 25, 1953 Volume 673 Number 4

# Official Gazette

## UNITED STATES PATENT OFFICE

Department of Commerce
SINCLAIR WEEKS, *Secretary*

U. S. Patent Office
ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

August 18, 1953 Volume 673 Number 3

# Official Gazette

## UNITED STATES PATENT OFFICE

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U. S. Patent Office

ROBERT C. WATSON, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

## Condition of Applications Under Examination at Close of Business July 31, 1953

Total number of patent applications awaiting action, 100,539. Date of oldest new application, October 18, 1952; date of oldest amended application, October 17, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| *(C. E. D.) KEELY, J. E. | | | |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 10-27-52 | 10-22-52 | 1472 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 11-13-52 | 11-12-52 | 1226 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 12-9-52 | 12-4-52 | 1872 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 11-8-52 | 11-10-52 | 1514 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates. | 11-25-52 | 11-26-52 | 978 |
| 6. SURLE, H., Carbon Chemistry (part) | 10-23-52 | 10-23-52 | 2730 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 11-15-52 | 11-18-52 | 1643 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 11-20-52 | 11-21-52 | 1576 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 11-4-52 | 11-5-52 | 1229 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 12-3-52 | 12-4-52 | 1330 |
| 11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 11-4-52 | 11-12-52 | 1171 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 11-10-52 | 11-10-52 | 1209 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 10-18-52 | 10-17-52 | 1214 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 11-21-52 | 11-19-52 | 1468 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 11-1-52 | 11-20-52 | 1710 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 11-12-52 | 11-12-52 | 1715 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 11-13-52 | 11-13-52 | 1539 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 12-29-52 | 11-10-52 | 731 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 11-8-52 | 11-10-52 | 1182 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 12-4-52 | 12-2-52 | 1262 |
| 21. MADER, R. C., Textiles | 11-1-52 | 11-1-52 | 1409 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 11-19-52 | 11-19-52 | 1055 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 10-28-52 | 11-5-52 | 896 |
| 24. DRACOPOULOS, P. T. (HICKEY, T. J., Acting), Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 12-26-52 | 12-26-52 | 1001 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 10-31-52 | 10-31-52 | 1334 |
| 26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 12 1-52 | 12-1-52 | 1892 |
| 27. JAMES S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 11-12-52 | 11-8-52 | 1238 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 12-16-52 | 12-8-52 | 1116 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus) | 11-12-52 | 11-4-52 | 1109 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 1-13-53 | 1-13-53 | 1312 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 11-3-52 | 11-1-52 | 2468 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-15-52 | 11-20-52 | 1235 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 11-17-52 | 11-12-52 | 1897 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 11 3-52 | 11-1-52 | 1321 |
| 35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles | 12-20-52 | 12-10-52 | 1193 |
| 36. McFADYEN, A. D., Measuring and Testing | 11-25-52 | 11-20-52 | 1108 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 11-28-52 | 12-1-52 | 1670 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 11-24 52 | 11-12-52 | 1558 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 1-2-53 | 1-2-53 | 1615 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 2-4-53 | 2-6-53 | 968 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | 11-28-52 | 11-21-52 | 1560 |

*Commissioner's Examiners' Division.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 11-10-52 | 11-7-52 | 2018 |
| 43. ASP, N. A. (KNIGHT, W. G., Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 10-29-52 | 10-28-52 | 1837 |
| 44. Abolished as of May 26, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 11-25-52 | 11-20-52 | 1371 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 11-3-52 | 11-1-52 | 1137 |
| 47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 11-3-52 | 11-3-52 | 1579 |
| 48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting. | 10-31-52 | 11-6-52 | 2056 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 11-18-52 | 11-12-52 | 1405 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 1-19-53 | 1-22-53 | 1624 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 11-15-52 | 11-15-52 | 1640 |
| 52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 12-17-52 | 12-5-52 | 1862 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 11-22-52 | 12-2-52 | 989 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications. | 11-14-52 | 11-12-52 | 1793 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 11-24-52 | 11-21-52 | 1007 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 12-17-52 | 12-10-52 | 1278 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 12-1-52 | 11-12-52 | 1736 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons. | 11-1-52 | 11-1-52 | 1378 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 12-1-52 | 12-2-52 | 1360 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 12-1-52 | 11-28-52 | 932 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 12-8-52 | 12-8-52 | 1198 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 11-5-52 | 11-1-52 | 1938 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 11-3-52 | 11-6-52 | 1782 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. G. 316). | | | |
| 66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales | 11-25-52 | 12-2-52 | 802 |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 12-19-52 | 11-24-52 | 1637 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 12-19-52 | 12-22-52 | 1428 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 11-14-52 | 11-13-52 | 1741 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 10-21-52 | 10-20-52 | 3436 |
| DESIGNS: A—BREHM, G. L., Industrial Arts | 4-1-53 | 4-7-53 | 938 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 4-1-53 | 4-10-53 | 889 |

Number of new applications received week ending July 10, 1953

PATENTS 1,293 DESIGNS 87 REISSUES 3 TOTAL 1,383

Total number of trade-mark applications awaiting action (including renewals and republications), 10,879.
Date of oldest new application, March 5, 1953; date of oldest amended application, March 4, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 3-5-53 | 3-4-53 | 2716 |
| II. SUMMERS, G. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 3-11-53 | 3-10-53 | 2661 |
| Renewals (All Classes) | 5-29-53 | 7-1-53 | 444 |
| Republications (All Classes) | 6-3-53 | 6-17-53 | 248 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 3-11-53 | 3-24-53 | 2473 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 3-16-53 | 3-12-53 | 2337 |

# DECISIONS IN PATENT AND TRADE-MARK CASES

## United States Court of Appeals District of Columbia Circuit

EMMOR H. MILLARD
*v.*
ROBERT C. WATSON, COMMISSIONER OF PATENTS

*No. 11807. Decided May 21, 1953*

[— F.2d —; — USPQ —]

1. PATENTABILITY—INVENTION—IMPROVED RESULTS INSUFFICIENT TO SHOW INVENTION.
Although the appellant points to a number of results achieved by his process which are not taught by the prior art, *Held* that the problem is whether the change which the appellant wrought in the method was of such nature as to amount to invention, even if the highly desirable results he pictures did take place.

2. SAME—PARTICULAR SUBJECT MATTER METHOD OF MAKING METAL TUBES.
The decision of the District Court holding certain claims to a method of making metal tubes unpatentable over the prior art is affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

*Melville E. Jones* for appellant.
*E. L. Reynolds*, for appellee.

Before EDGERTON, PRETTYMAN and FAHY, *Circuit Judges*

PRETTYMAN, *Circuit Judge*:

This is a patent case brought in the District Court under section 4915 of the Revised Statutes.[1] Appellant sought a patent on a method designed for the making of metal tubes or pipes from flat metallic plate. The trial court described the application as follows, in terms which are both accurate and clear as we understand the claims:

"The application here involved discloses a method of making tubes from flat metal sheets by the use of a concave lower die having a cavity corresponding to about 120 degrees of the completed tube; and a substantially cylindrical upper die. In making a tube, one edge of a flat sheet is laid across the cavity and shaped by means of the upper die. The upper die is then raised and the sheet is passed under it until the other edge lies over the cavity, whereupon the shaping operation is repeated. The upper die is then raised again and the middle section of the sheet is placed over the cavity and shaped, thus forming a tube. The tube is then removed from the die and completed by welding the seam. The cylindrical upper die is supported from the supporting bar by an integral web."

Appellant put his lower die, the concave one, in a broad, flat surface, so that the sheet of metal could lie flat on that surface preparatory to the pressing operation. Thus it could be placed in position accurately and firmly and could be slid instead of lifted into the two further positions for the second and third operations.

A prior inventor had used the same general arrangement, except that his lower die was in a narrow block instead of in a broad, flat surface. The result of that structure seems to have been that the sheet of metal had to be held in position, either by hand (for a small sheet) or by some suspense or hoisting arrangement like a crane, while it was being put between the dies; and apparently it had to be withdrawn from the press, lifted around the machine, and reinserted between the dies for the two further pressings, instead of merely being slid across on the flat surface into the desired position.

Appellant says that his machine produces the following results not possible in the prior art:

1. It prevents spiral edges at the seam of the plate when it is shaped into tubular form. Unless the plate is held in precise position while being pressed, it tends to slip and the edges are not then parallel so as to permit welding in a straight seam.

2. It enables the metal sheet to be slid into position instead of being lifted there.

3. It holds the sheet steady for the pressing operation.

4. It enables an accurate placement of the sheet between the dies.

5. It catches the sheet when the dies are released after each pressing. After the sheet is bent between the dies and the dies are released, the sheet tends to drop by force of gravity.

6. It enables a continuous process, because, as one completed pipe is being slid off the top die, another sheet of metal can be slid along the flat surface into position for placement between the dies.

[1] Appellant says all these results are new and unexpected and not taught by the prior art. But the problem is whether the change which appellant wrought in the method was of such nature as to amount to invention, even if the highly desirable results he pictures did take place. We think it was not. It seems to us that the mere placement of the lower die of the device in a broad, flat surface instead of in a narrow block did not amount to

[1] As amended, 35 U. S. C. A. § 63.

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invention. As a witness for appellant agreed, that type of work support is common on dies.

The same conclusion applies to the fixity of the upper die in appellant's method and the movability of that die in some, although apparently not in all, of the prior inventions. This matter of the upper die was discussed in the testimony but was not pressed in the argument here. Moreover, this is a difference more in apparatus than in method.

In sum, it seems to us that the claimed method as a whole, i. e., the movement of the metal sheet between the dies instead of around the machine, the lateral work support at the level of the lower die, and the fixity of the upper die to the web which holds it, would have been obvious at the time to a person having ordinary skill in the art. [2] The District Court so found, and its judgment is therefore

AFFIRMED.

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## United States Court of Appeals District of Columbia Circuit

DAVID DALIN

*v.*

ROBERT C. WATSON, COMMISSIONER OF PATENTS

*No. 11479. Decided May 14, 1953*

[— F.2d — ; 97 USPQ 296]

1. CLAIMS—APPARATUS—MUST DISTINGUISH ON BASIS OF MECHANICAL FEATURES.

*Held* that, although the appellant claims high efficiency for his structure in overcoming a problem in the prior art, "an applicant for a device or structure patent must show novel and distinguishable mechanical features in his own apparatus; lacking this added efficiency in reaching desired effects does not create patentability."

2. PATENTABILITY — ANTICIPATION — INEFFICIENCY OF REFERENCE DEVICE NOT CONSIDERED.

The inefficiency of an old machine need not destroy its significance as a disclosure.

3. SAME—PARTICULAR SUBJECT MATTER—DISTILLATION APPARATUS.

Certain claims to an apparatus for the distillation of gases from oil shale *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

*Ira Milton Jones* (*James H. Littlepage* of counsel) for appellant.

*E. L. Reynolds* (*S. William Cochran* of counsel) for appellee.

Before PRETTYMAN, BAZELON, and WASHINGTON, *Circuit Judges*

WASHINGTON, *Circuit Judge*:

This is a patent application case, relating to an apparatus for distilling gases from oil shale.[1] Its main features are an upright combustion shaft, an upright retort, and a means of controlling temperatures in the shaft and retort by the use of a network of ducts through which fluid circulates.[2] The Patent Office denied a patent. The District Court found that there was no invention displayed, in view of the disclosures in the patents to Bergh (No. 1,618,566) and Edling (No. 2,504,508).[3] We think these findings have ample basis in the record.

[1] Appellant says that certain mechanical features of Bergh, claimed by the latter to be capable of controlling the temperature in the combustion zone,[4] were not in fact effective to prevent sintering, that is, plasticizing or clinkering, of the fuel and the material being distilled. He claims high efficiency in this regard for his own structure. But an applicant for a device or structure patent must show novel and distinguishable mechanical features in his own apparatus: lacking this, added efficiency in reaching desired effects does not create patentability. *General Electric Co.* v. *Wabash Appliance Corp.*, 304 U. S. 364 (1938). [2] And the inefficiency of an old machine need not destroy its significance as a disclosure. *In re Japikse*, 181 F.2d 1019, 37 CCPA 1026 (1950). Even if Bergh's structure be considered practically ineffective, by reason of its lack of control over sintering, that lack can be supplied by Edling's concept, namely, the use for that purpose of a series of pipes embedded in the combustion zone.[5] Combining the teachings of these two patents would not constitute invention.

[3] For these reasons, the judgment of the District Court will be

AFFIRMED.

---

[1] Suit was brought under Rev. Stat. § 4915 (1875), as amended 35 U. S. C. § 63 (1946). That section was repealed by section 5, act of July 19, 1952, c. 950, 66 Stat. 815, and is now replaced by 66 Stat. 803, 35 U. S. C. A. §§ 145, 146 (Supp. 1952).

[2] The application is Serial No. 648,796, of which appellant is assignee. Claim 23, which the parties agree is critical to the case, reads as follows:

"23. In a device for the dry distillation of materials: an upright combustion shaft in which fuel is adapted to be burned to provide the heat necessary for distillation; an upright retort in said combustion shaft at least the lower portion of which is embedded in the fuel in the shaft, said retort being adapted to contain material to be distilled by the heat of combustion in the shaft; and means for controlling the temperatures in the shaft and the retort to preclude attainment of temperatures therein at which sintering of the fuel and the distillant takes place, said means comprising a network of ducts through which a heat absorbing fluid circulates, certain of said ducts being embedded in the fuel in the shaft and dispersed at integrals transversely of the shaft so that the influence of the heat absorbing fluid circulating through them emanates from a number of sources spaced transversely throughout the bed of fuel in the shaft, and the remaining ducts being arranged in juxtaposition to the walls of said embedded portion of the retort."

[3] The District Court held (1) that the application does not reveal invention over the Bergh patent, and (2) that it does not define invention "over the Bergh patent in view of Edling."

[4] The main outline of Bergh's furnace is roughly similar to that of appellant. Bergh included a bar 15 which was placed below the row of retorts. The Bergh application (at column 2, line 82) says that bar 15 "preferably is constructed hollow and provided with an inlet pipe 16 and an outlet pipe 17 for air or water, in order to cool the bar." Bergh's application goes on to say "The temperature of the coke residue in the lower part of the retort can thereby be regulated within a certain range, which reacts on the distilling process."

[5] The patent to Edling covered a "magazine furnace and method of burning fuel having a low sintering temperature." Edling shows a combustion chamber having walls "covered with water or steam tubes . . . or cooled by other means." (Application, column 2, line 48.) Claim 4 of Edling covers "the step of circulating fluid heat absorbing medium in juxtaposition to, but not in contact with, fuel in the zone of combustion in sufficient volume and quantity to maintain the temperature of the fuel in said zone below the sintering temperature thereof." (Application, column 6, line 33.) This can fairly be read on appellant's claim 23, *supra* note 1.



## United States Court of Appeals District of Columbia Circuit

SPANG, ET AL., *v.* WATSON, COMMISSIONER OF PATENTS

*No. 11508. Decided May 7, 1953*

[— F.2d — ; 97 USPQ 290]

1. TRADE-MARKS—DISTINCTIVE OF GOODS—NOW EXCLUSIVE RIGHT IN A MARK WHICH HAS BECOME GENERIC.

*Held* that notwithstanding that the term "Cube Steak" originally designated the appellants' machines and the product of the machines, appellants did not acquire an exclusive right to apply the name after it became generic and no longer distinctive of their goods.

2. SAME—SAME—CRITERIA IN APPLYING DOCTRINE OF SECONDARY MEANING.

Rule restated that the application of the doctrine of secondary meaning requires that not merely has the mark acquired a subordinate meaning but the primary significance of the term in the minds of the consuming public is not the product but the producer.

3. SAME—REGISTRABILITY—"CUBE STEAK" APPLIED TO MEAT TENDERIZING MACHINES.

The decision of the District Court that the appellants failed to show that the mark "Cube Steak" has become distinctive of the appellants' goods in commerce is affirmed.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

*Cedric W. Porter*, *Nathan Heard* and *Lee L. Townshend*, for appellants.

*E. L. Reynolds* (*H. S. Miller*, of counsel) for appellee.

Before EDGERTON, FAHY, and WASHINGTON, *Circuit Judges*

FAHY, *Circuit Judge*:

Appellants sued the Commissioner of Patents under Rev. Stat. § 4915,[1] to register the words "Cube Steak" as a trade-mark for meat tenderizing machines. Appellants say the term is "a mark used by the applicant which has become distinctive of the applicant's goods in commerce" within the meaning of § 2 (f) of the Lanham Trade-Mark Act, 60 Stat. 429, 15 U. S. C. § 1052 (f) (1946).

The District Court found in substance that this term has not become distinctive of appellants' goods. It found that appellants' predecessor used it before them; and appellants "have made great efforts toward policing" it; but it now designates a type of meat that comes from many different sources. The evidence supports these findings. Appellants do not deny that the term "Cube Steak" is often used to designate a type of meat regardless of source. [1] Notwithstanding that the term originally designated appellants' machines and the product of these machines, appellants did not acquire an exclusive right to apply the name after it became generic and no longer distinctive of their goods. *Singer M'f'g Co.* v. *June M'f'g Co.*, 163 U. S. 169 (1896); *Kellogg Co.* v. *Nat. Biscuit Co.*, 305 U. S. 111 (1938).

We need not consider whether, as the District Court thought, it necessarily follows that, "Since 'Cube Steak' is the generic name of a variety of meat, it is equally the generic name of the machine which makes that variety of meat." If the use of the words "Cube Steak" as a trade-mark were limited to the machines and if it were found, on sufficient evidence, that customers for the machines regarded the mark as pointing distinctly to appellants as the producers, perhaps a limited registration might be possible. As a common law case affording protection of this limited character, see *Bayer Co.* v. *United Drug Co.*, 272 Fed. 505 (S. D. N. Y. 1921). The cases of *Singer M'f'g Co.* v. *June M'f'g Co.*, supra, and *Kellogg Co.* v. *Nat. Biscuit Co.*, supra, read with *Hanover Milling Co.* v. *Metcalf*, 240 U. S. 403 (1916), and *United Drug Co.* v. *Rectanus Co.*, 248 U. S. 90 (1918), are not preclusive of such limited registration, particularly when they are considered in the light of the liberalizing provisions of the Lanham Trade-Mark Act.[2] In a proper case the statute itself authorizes limitations and conditions upon registration: 60 Stat. 430, 15 U. S. C. § 1057(a) (1946). See, also, *Walgreen Drug Stores* v. *Obear-Nester Glass Co.*, 113 F.2d 956, 960 (8th Cir.), cert. denied, 311 U. S. 708, rehearing denied, 311 U. S. 730 (1940). [2] But, as indicated in *Kellogg Co.* v. *Nat. Biscuit Co.*, 305 U. S. at p. 118, the application of this doctrine of secondary meaning requires that not merely "a subordinate meaning" but "the primary significance of the term in the minds of the consuming public," here those in the market for the machine, "is not the product but the producer." Appellants failed to show clearly that this is the factual situation. [3] On the contrary, the finding of the court that appellants "have not shown that the mark 'Cube Steak' as used by them, has become distinctive of plaintiffs' [appellants'] goods in commerce," is entirely consistent with the evidence, even though "goods in commerce" be considered as the machines only and not the tenderized meat, and the public be considered only as those who might purchase the machines.

AFFIRMED.

---

[1] Rev. Stat. § 4915 (1875), as amended 35 U. S. C. § 63 (1946), has since been repealed by section 5, act of July 19, 1952, c. 950, 66 Stat. 815. It has been replaced by 66 Stat. 803, 35 U. S. C. A. §§ 145, 146 (Supp. 1952).

[2] "No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the Principal Register on account of its nature unless it," so far as here pertinent, "* * * is merely descriptive"; and even if descriptive the mark may be registered if it "* * * has become distinctive of the applicant's goods in commerce. * * *" (§ 2(f).)

## U. S. Court of Customs and Patent Appeals

CONTINENTAL COFFEE CO., INC.

*v.*

CONTINENTAL FOODS, INC.

*No. 5941. Decided March 11, 1953*

[202 F.2d 759; 97 USPQ 162]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—OMISSION OF LETTER.

In considering confusion, *Held* that one is not at liberty to treat as elided a letter which gives distinctiveness to a word.

2. SAME—SAME—"FAVORA" AND "FLAVORITE."

The decision of the Commissioner holding that "FAVORA" and "FLAVORITE" when used on identical goods are not confusingly similar is affirmed.

APPEAL from Patent Office. Opposition No. 28,504.

AFFIRMED.

*James R. McKnight* and *Robert C. Comstock* for appellant.

*Hugh R. H. Smith* for appellee.

O'CONNELL, *J.*, dissenting.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Commissioner of Patents, speaking through the Assistant Commissioner, affirming the decision of the Examiner of Interferences dismissing the notice of opposition filed by appellant to appellee's application for the registration of the word "FAVORA" as a trade-mark for "Dehydrated Chicken Noodle Soup Mixes" (See *Continental Coffee Co., Inc.* v. *Continental Foods, Inc.*, 91 USPQ 271).

The following stipulation was embraced in the record certified to us by the Commissioner of Patents:

It is hereby stipulated and agreed by and between the parties hereto through their respective counsel, the Hon. Commissioner of Patents consenting, pursuant to Rule XXV 3.(e) of the Rules of the United States Court of Customs and Patent Appeals that the following constitute the facts of the above entitled case, the questions raised on appeal and the evidence necessary to a decision of such questions.

1. Opposer is the owner of Trade-Mark Registrations Nos. 433,708 of October 8, 1947, for the trade-mark FLAVORITE for noodle soup mix and No. 439,673 of July 13, 1948, for the trade-mark FLAV-O-RITE for soup mix.

2. Applicant on July 27, 1948, filed application Serial No. 561,362 for registration of the trade-mark FAVORA for dehydrated chicken noodle soup mixes.

3. Opposer is the prior user and registrant as between the parties to this proceeding.

4. The questions raised on appeal are whether applicant's trade-mark FAVORA is confusingly similar to opposer's prior registered marks FLAVORITE and FLAV-O-RITE when used on identical goods and whether the Commissioner of Patents erred in holding that they are not.

5. The only evidence necessary to a decision of such questions is the foregoing statement of facts and copies of the above named registrations.

6. The record herein need include only this statement, petitioner's notice of appeal to this Court, copies of the above registrations and the decisions of the Examiner of Interferences and the Commissioner of Patents.

Neither the text of the notice of opposition nor the text of the answer thereto was included verbatim in the record certified to us, but the decisions of the respective tribunals of the Patent Office are included in full and the contentions pro and con made before those tribunals respecting the notice are clearly set forth in their decisions.

Those decisions and the stipulations, supra, agreed to on behalf of the parties, as interpreted by their respective counsel in presenting the case before us, render extensive discussion by us unnecessary. Certain of the issues and arguments which necessitated attention and answer below are not before us for consideration.

In the brief for appellant, interpreting the stipulation, it is said:

• • • the parties have stipulated that the only questions raised on appeal are whether appellee's trade-mark FAVORA is confusingly similar to appellant's prior registered trade-mark FLAVORITE for identical goods, namely soup mix, and whether the Commissioner of Patents erred in holding that the marks were not confusingly similar.

In the brief for appellee it is stated:

• • • By stipulation, the only question raised is whether appellee's trade-mark FAVORA is confusingly similar to appellant-opposer's prior registered marks FLAVORITE and FLAV-O-RITE when used on identical goods.

The arguments on behalf of appellant as to confusing similarity are given under two headings:

(a) Favora and Flavorite Are Confusingly Similar in Sound:

(b) The Marks Are Confusingly Similar in Appearance and Meaning.

Under the first of the above headings it is said, inter alia:

The trade-marks FAVORA and FLAVORITE are both derived from the words "favor" and "flavor." They would be pronounced by the average customer of soup mixes in the same way that the wellknown English words "favor" and "flavor" are pronounced, with the accent on the long A sound in the first syllable. Thus, appellee's mark would be pronounced FAY-vora and appellant's mark would be pronounced FLAY-vorite.

Under the second heading the assertion is made that:

In addition to the similarity between the marks in sound, appellant submits that they are also confusingly similar in appearance and meaning. In appearance, the marks have five letters in common, all of which occur in exactly the same order in both marks. A glance at a package bearing FAVORA or FLAVORITE leaves a confusingly similar impression of the appearance of the marks. In meaning, both marks are derived from the word "favor" and are variations thereof.

In sound, FAVORA and FLAVORITE sound alike. In appearance, FAVORA and FLAVORITE look alike. In meaning, FAVORA and FLAVORITE have a similar significance. In view of their similarities in all three particulars of sound, appearance and meaning, opposer submits that there is clearly a reasonable likelihood of confusion in trade between the marks FAVORA and FLAVORITE.

It is not clear to us just what is meant by the statement under the first heading, reading: "The trade-marks FAVORA and FLAVORITE are both derived from the words "favor" and "flavor," and we are unable to agree with the last sentence of the first paragraph under the second heading, reading: "In meaning, both marks are derived from the word favor and are variations thereof."

Obviously "favora" is "favor" plus the letter "a" and, equally obviously, the addition of "a" results in a coined word not found in any dictionary. So far as we have been able to determine, the coined word has no meaning whatever when disassociated from appellee's "dehydrated chicken noodle soup mixes." This is not true of "Flavorite" which has at least a per se suggestiveness.

We question whether it is correct to say that "Favora" is *derived* from "favor." It results from adding the letter "a" to "favor," but whatever may be said of "Favora," it may not properly be said that "Flavorite" was derived from or built up from "favor." Assuming that "derived" properly may be used as appellant uses it, "Flavorite" is derived from "flavor"—not from "favor"—and "favor" has no definition in common with "flavor." They are distinctive words having entirely different meanings.

Editions of Webster's New International Dictionary issued from time to time over a long period of years are authority for the statement that "favor" is the anglicized form of an old French or Latin term "faveur" or "favere" having the meaning of favorable, while "flavor" is the anglicized form of an old French term "fleur" or "flaur" having a meaning such as odor.



Appellant's contention as to confusing similarity of the respective marks in sound, appearance and meaning disregards entirely both the sound and the significance of the letter "l" in "Flavorite" and "Flav-O-Rite." [1] Certainly, in considering confusion, one is not at liberty to treat as elided a letter which gives distinctiveness to a word. There may be different inflections in pronouncing the marks at issue, but, certainly, whatever sound may be given to the vowels in the respective marks, there can be no proper pronunciation of either of appellant's marks which disregards the "ell" sound. As used in either "Flavorite" or "Flav-O-Rite" "l" is neither a silent nor a surplus letter.

We have noted and given due consideration to the comparisons made in the brief for appellant of its marks with other marks held by this court to be confusingly similar. We do not regard any of the cases used in the comparison as being on all fours with or controlling in the instant case and it is not thought that any public interest could be served by reviewing them. As was said by us in the case of *Holland-Rantos Co., Inc.* v. *Henry Laboratories, Inc.*, 39 CCPA (Patents) 877, 195 F.2d 325, 93 USPQ 168:

We do not think it necessary to re-examine our often pronounced holding that precedents in trade-mark cases are of very little, if any, importance in litigation such as this.

[2] The decision of the Commissioner of Patents is affirmed.

AFFIRMED.

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O'CONNELL, *J.* (dissenting):

A side-by-side comparison of the contested marks here in issue will of course yield the arguable distinctions which control the decision of majority. Such a ritual, almost invariably, exploits the trivial, ignores the important, and winds up with a finding of fact that is far from realistic. For that reason the method has been universally condemned because it is not the proper criterion by which the likelihood of confusion is to be determined. E. g., *Vital Foods Corporation* v. *Miles Laboratories, Inc.*, 33 CCPA (Patents) 1136, 156 F.2d 77, 70 USPQ 191; *United Drug Co.* v. *Mercirex Co.*, 37 (Patents) 1063, 182 F.2d 222, 86 USPQ 112. See also my opinion in *Irma Hosiery Co.* v. *Ernest Schulman*, 40 CCPA (Patents) —, —F.2d—, —USPQ—, Patent Appeal No. 5919, decided January 14, 1953.

It is a matter of common knowledge that the ordinary person in making a purchase of inexpensive household or personal articles is not likely to remember, nor is he bound to look for and analyze, the details of the contested marks and labels of competing vendors, even if he should happen to know as a matter of fact that there are competing vendors. *Magitex Co., Inc.* v. *John Hudson Moore, Inc.*, 33 CCPA (Patents) 959, 154 F.2d 177, 69 USPQ 133. It may be noted also that under modern methods of merchandising a purchaser of the goods may frequently have no opportunity to make such an examination and comparison. In any event, there is no law by which a shopper is required to carry a dictionary in one hand and a microscope in the other in order to detect the minute distinction between an established brand and a phony trademark. *Celanese Corp. of America* v. *Vanity Fair Silk Mills*, 18 CCPA (Patents) 958, 47 F.2d 373, 8 USPQ 232; *Guggenheim* v. *Cantrell & Cochrane*, 56 App. D. C. 100.

The dictionaries contain the word "favora" but not the word "flavorite," and here the newcomer has apparently appropriated a device to trap the unwary purchaser. See *Celanese Corp. of America* v. *E. I. Dupont de Nemours & Co.*, 33 CCPA (Patents) 857, 154 F.2d 143, 69 USPQ 69. The latter term is essentially nothing more than the primary name for one of the characteristics of appellee's goods, and as such is incapable of trademark usage and of denoting the source or personal origin of appellee's goods. *Snap-On Tools Corp.* v. *The Black & Decker Mfg. Co.*, 32 CCPA (Patents) 1223, 150 F.2d 432, 66 USPQ 237.

Moreover, compound marks having one or more syllables in common may be confusingly similar, although there is a wide difference in the remaining portions of the mark. See, e. g., *In re Brockway Glass Company*, 33 CCPA (Patents) 969, 154 F.2d 69 USPQ 324; *Coty, Inc.* v. *Perfumes Habana, S. A.*, 38 CCPA (Patents) 1180, 190 F.2d 91, 90 USPQ 224. The same rule has been applied for years in other Federal courts of competent jurisdiction, as noted by Judge Page in *Northam-Warren Corporation* v. *Universal Cosmetic Co.*, 18 F.2d 774:

Whether there is an infringement of a trade-mark does not depend upon the use of identical words, nor on the question as to whether they are so similar that a person looking at one would be deceived into the belief that it was the other; but it is sufficient if one adopts a trade-name or a trade-mark so like another in form, spelling, or sound that one, with a not very definite or clear recollection as to the real trade-mark, is likely to become confused or misled.

In view of the fact that the corporate names of both of these competing vendors consist primarily of the word "Continental," confusion in trade seems all the more likely. Therefore in the public interest, as well as that of appellant, the law of unfair competition should be applied against appellee. *Champion Plug Co.* v. *Sanders*, 331 U. S. 125, 130; *Coty, Inc.* v. *Perfumes Habana*, 38 CCPA (Patents) 1180, 1185, 190 F.2d 91, 90 USPQ 224; *Jewel Tea Co., Inc.* v. *Kraus*, 187 F.2d 278, 282.

It is true as quoted by the majority that the rule under our procedural practice in recent trade-mark litigation, we are holding that precedents in such cases are of very little, if any importance. In fact, we are pronouncing the heresy so often that it has become routine in this court. No other courts have been cited which have adopted the same or a similar philosophy. Appellant in its brief here cited and relied upon the procedure followed and the holding made for a unanimous court by Presiding Judge Graham in *American Products Co.* v. *Leonard*, 19 CCPA (Patents) 742, 53 F.2d 894, 11 USPQ 184.

There the mark "Zanol" was held confusingly similar to the registrant's mark "Zeno" for chemical supplies and in fortifying his position Judge Graham cited five similar cases of this court to the same legal effect. In other words, we have apparently shifted our position in trade-mark litigation from time to time from a logical to a psychological basis, with the result that in one instance we have overruled the previous judgment of our court where the marks and goods in a subsequent suit were identical with those of a previous case. *Merritt-Taylor, Inc.* v. *C. B. Shane Corp.*, 39 CCPA (Patents) 916, 919, 195 F.2d 535, 93 USPQ 221. In a series of other cases we have authorized the registration of identical marks because, as noted, the goods of the newcomer were not precisely the same as those upon which widely-advertised and long established marks had been previously used. E. g., *The Alligator Co.* v. *Larus & Bro. Co., Inc.*, 39 CCPA (Patents) 939, 196 F.2d 532, 93 USPQ 436.

It is my opinion that there is no justification whatever for authorizing the registration of the applicant's mark here in issue and thereby adding to the wide confusion already existing in the markets for the purchasing public with respect to the sale of merchandise. See *John Morrell & Co.* v. *Doyle*, 97 F.2d 232.

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## U. S. Court of Customs and Patent Appeals

HANCOCK v. THE AMERICAN STEEL & WIRE CO. OF NEW JERSEY, ETC.

*No. 5947. Decided April 16, 1953*

[203 F.2d 737; 97 USPQ 330]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—RELIANCE ON DICTIONARIES TO SHOW POPULAR MEANINGS OF WORDS HELD PROPER.

*Held* that when the opposer called to the attention of the Examiner and the Commissioner certain definitions of the disputed words in well recognized dictionary authorities, those tribunals might properly rely upon the dictionary definitions as indicating the popular meaning of the words in issue, in the absence of any sufficient reason why they should not do so.

2. SAME—SAME—SIMILARITY IN MEANING ALONE MAY SUSTAIN OPPOSITION.

*Held* that an opposition to registration may be sustained if the marks are identical or so similar in meaning that confusion as to origin is deemed likely.

3. SAME—SAME—"CYCLONE" AND "TORNADO" AS APPLIED TO WIRE FENCING.

*Held* that contemporaneous use of appellant's mark "Tornado" and appellee's mark "Cyclone" on wire fencing is likely to result in confusion or mistake in trade notwithstanding there is a distinction between the technical meteorological meanings of the two terms.

4. SAME—OPPOSITION—DOUBTS RESOLVED AGAINST NEWCOMER PARTICULARLY WHEN MARKS ARE ARBITRARY.

*Held* that the rule requiring that doubts should be resolved against newcomers in an opposition proceeding must be applied with discretion but the rule has particular application when the marks are essentially arbitrary as applied to the goods involved and the applicant has entered the field considerably later than the opposer.

APPEAL from Patent Office. Opposition No. 28,795.

AFFIRMED.

*Hugh P. Carter* and *Jennings & Carter* for appellant.

*Donald G. Dalton* (*Matthew P. McDermitt* of counsel) for appellee.

JOHNSON, *J.*:

This is an appeal from the decision of the Commissioner of Patents, speaking through the Assistant Commissioner, 91 USPQ 350, affirming the decision of the Examiner of Trade-Mark Interferences sustaining appellee's opposition to registration of the mark sought by appellant.

On May 5, 1948, appellant, Paul P. Hancock, filed his application, Serial No. 556,262, in the Patent Office for registration, under the Trade-Mark Act of 1946, of the mark "Tornado" in association with a pictorial representation of a whirlwind for use upon "wire fencing." Continuous use of the mark since April 9, 1948, was alleged in the application.

August 5, 1949, appellee filed notice of opposition to the registration so sought, alleging prior use of the trade-mark "Cyclone" as applied to "wire fencing, fence posts and gates, etc." Opposer alleged in its notice ownership of Registration No. 212,792 for the mark "Cyclone" as applied to "wire fencing, etc.," issued May 11, 1926, to its predecessor in title and duly renewed by the opposer under the act of 1946. As grounds of opposition, appellee alleged that the mark sought by appellant is applied to identical goods and so nearly resembles its own mark that confusion or mistake or deception of purchasers is likely.

Both parties filed stipulated facts in lieu of testimony.

It is stipulated by the parties that the goods involved are identical, namely, wire fencing of the heavy chain link type which is used largely for enclosing industrial plants, playgrounds and the like, and to some extent by home owners. The opposer's prior use of its mark "Cyclone" for these products is established by the stipulated facts and conceded by appellant.

Essentially, the position taken by the opposer before the Examiner and the Commissioner, and before this court, is that appellant's mark "Tornado" has an identical or substantially identical popular meaning as "Cyclone," particularly in view of the pictorial representation of a whirlwind in the former mark; and that simultaneous use of these marks on wire fencing is therefore likely to cause confusion as to origin, especially since the marks are arbitrary as applied to this type of goods. To support his position, appellee has relied upon certain dictionary definitions which he has called to the attention of the Patent Office tribunals and this court.

In Webster's New International Dictionary, 2nd ed., we find the following:

> cyclone • • • I. (*a*) A wind blowing circularly, esp. in a storm. (*b*) *Popularly, a tornado.* See Tornado, 2b. [Italics supplied.]
>
> 2. A violent rotary storm in the solar photosphere. • • •
>
> 4. *Meteorol.* A storm or system of winds, often violent in the tropics and moderate elsewhere, • • •. Called also *hurricane* in the West Indies and *typhoon* or *baguio* in the Philippine Islands and the China Sea. • • • The term *cyclone* should not be applied to the tornado, waterspout, or twister. • • •
>
> tornado • • • 3. Any violent or destructive windstorm; a whirlwind.

Funk & Wagnalls New Standard Dictionary of the English Language (1938) contains the following definition:

> cyclone • • • 3. *Popularly*, any violent and destructive wind-storm, especially (in the United States) a *tornado*. [Italics supplied.] • • • *Syn.*: hurricane, tornado, typhoon, whirlwind.

Other definitions of similar import are called to our attention by appellee's counsel in his brief.

The Examiner sustained appellee's opposition holding the marks were likely to cause confusion for the following reasons:

> Irrespective of what meteorological differences there might be between a tornado and cyclone, they are commonly understood by most persons to be circulatory windstorms of violent proportions, and to them they are synonymous in meaning and convey the same mental impression. As applied to fencing the notations "Tornado" and "Cyclone" are obviously arbitrary terms, with a possible remote suggestiveness of strength, and while these terms are unlike in appearance and sound they are nevertheless deemed to be so nearly identical in meaning as to be clearly likely to give rise to confusion, or mistake, or deception of purchasers as to the origin thereof when applied contemporaneously thereto.

Upon appeal, the Assistant Commissioner affirmed the Examiner's decision holding the marks sufficiently alike in connotation so that confusion was likely, notwithstanding that he thought there was an obvious distinction in appearance and sound between the two words. His reasons for so holding were substantially the same as those expressed in the above-quoted excerpt from the Examiner's opinion, with the Assistant Commissioner particularly stressing that he regarded the appellee's mark as an arbitrary one when applied to the goods here involved.

Appellant contends (1) that the expressions "Tornado" and "Cyclone" are wholly different in sound and appearance and are not even closely related in meaning in the minds of purchasers of the parties' goods; and (2) that even if this is not so, the Commissioner of Patents has no right whatever, in view of the burdens upon an opposer, to rely solely upon dictionary definitions to determine the factual issue of the popular meaning of words. We shall consider the latter contention first.

The meaning of these two words is the crux of the case. Courts take judicial notice of the meaning of words, *Nix* v. *Hedden*, 149 U. S. 304, and the court may always refer to standard dictionaries or other recognized authorities to refresh its memory and understanding as to the common meaning of language. *United States* v. *Dorsey Co. et al.*, 12 Ct. Cust. Appls. 524, T. D. 40732, modified on other grounds, 13 Ct. Cust. Appls. 182. This court has often resorted to dictionary definitions to determine the ordinary significance and meaning of words in issue. See *Lever Brothers Company* v. *Babson Brothers Company*, 39 CCPA (Patents) 1021, 197 F.2d 531, 94 USPQ 161, *Eureka Williams Corp.* v. *Willoughby Machine Tool Co.*, 39 CCPA (Patents) 832, 194 F.2d 543, 93 USPQ 12; also *Check-Neal Coffee Co.* v. *Hal Dick Mfg. Co.*, 17 CCPA (Patents) 1103, 40 F.2d 106, 5 USPQ 55. [1] It is our opinion, therefore, that when opposer called to the attention of the Examiner and the Commissioner the above-quoted definitions in such recognized authorities as the Webster's and Funk & Wagnalls dictionaries referred to supra, those tribunals might properly rely upon these dictionary definitions as indicating the popular meaning of the terms in issue, in the absence of any sufficient reason why they should not do so. If appellant is of the opinion that these dictionary definitions are in error, he should have introduced pertinent recognized authorities, or other suitable evidence, for the consideration of the Patent Office tribunals and this court. Accordingly, we regard this contention as being without merit.[1]

We turn now to appellant's first contention. In determining likelihood of confusion between marks on identical goods, it is proper to consider their appearance, sound and meaning. *Firestone Tire & Rubber Co.* v. *Montgomery Ward & Co.*, 32 CCPA (Patents) 1074, 150 F.2d 439, 66 USPQ 111. Clearly the involved marks "Tornado" and "Cyclone" do not look or sound alike. [2] But a combination of all three factors need not necessarily exist, and an opposition to registration may be sustained if the marks are identical or so similar in meaning that confusion as to origin is deemed likely. See *Norris Inc.* v. *Charms Co.*, 27 CCPA (Patents) 1174, 111 F.2d 479, 45 USPQ 442.

[3] On the basis of the dictionary definitions and similar authorities called to our attention, we think that the Examiner and Commissioner properly held that the marks were identical, or substantially so, in ordinary meaning. We concur also with those officials in the opinion that the mark "Cyclone" is essentially an arbitrary mark as applied to wire mesh fencing of the type here involved, although we think it is remotely suggestive of strength, as pointed out by the Examiner. In view of this, we think that contemporaneous use of appellant's and appellee's marks on wire fencing is likely to result in confusion or mistake in trade, notwithstanding that there is a distinction between the technical meteorological meanings of the two terms. We are primarily concerned with the meaning of the marks to members of the public at large who are prospective purchasers of such wire, and not to meteorological experts.

Appellant has cited certain cases to support his contention that the marks are not confusingly similar. Prior decisions are persuasive but not necessarily determinative in opposition proceedings wherein the question is whether marks are confusingly similar. *Holland-Rantos Co., Inc.* v. *Henry Laboratories, Inc.*, 39 CCPA (Patents) 877, 195 F.2d 325, 93 USPQ 168. Similarity of the marks must be determined largely as a matter of opinion,

[1] We think this view is not inconsistent with *Nix* v. *Hedden*, supra, cited by appellant to support this contention.

*Lever Bros.* v. *Babson Bros.*, supra, and each case must rest on its own distinctive facts. *North Star Manufacturing Co.* v. *Wells Lamont Corp.*, 39 CCPA (Patents) 764, 193 F.2d 204, 92 USPQ 128.

All but one of the cases cited by appellant are, in our opinion, clearly inapposite because they involved marks which are highly suggestive, rather than arbitrary, and the marks did not have identical ordinary meanings; hence we think it unnecessary to discuss those cases.

The most pertinent case cited by appellant is *Lever Bros.* v. *Babson Bros. Co.*, supra. In that case the question before us was whether confusion in trade was likely if applicant's mark "Surge" and opposer's mark "Surf" were both applied to cleaning detergents. Opposer relied considerably on the fact that one of six dictionary definitions of "surge" was similar to the dictionary definition of "surf." We affirmed the concurrent holdings of the Patent Office tribunals that the marks were simple, well known words which do not look or sound alike when considered in their *entireties*. We also agreed with their concurrent holdings that the two words do not have the same ORDINARY connotation or meaning to the average person, notwithstanding that one of the six dictionary definitions of "surge" is similar to the definition of "surf." Our holding in this case that confusion is likely is based on our belief that the *popular* or *ordinary* meanings of "Tornado" and "Cyclone" are identical, although there are certain technical distinctions between the two terms. We see no inconsistency between this holding and our decision in the *Lever Bros.* case, and we do not regard that case as determinative in appellant's favor.

Even if we were in doubt as to likelihood of confusion in trade due to concurrent use of "Tornado" and "Cyclone" on wire fencing, we would resolve such doubt in favor of appellee in this case. Opposer's trade mark was registered in 1926, 22 years before appellant first used his mark in 1948. The parties stipulated that during the period from 1940 through 1949 opposer sold about $90,000,000 worth of "Cyclone" wire fence and spent about $1,250,000 for advertising; that about 90% of its advertising expenditure was directed to retail consumer advertising; and that as a result of long and extensive use of its mark in the advertising and sale and erection of "Cyclone" brand fence, and related products, opposer has a nationwide good will in the said mark as used in connection with such goods. According to the stipulations, appellant had spent about $10,000 from April, 1948, to September, 1950, to advertise his goods sold under the mark "Tornado," and had bid on 1400 jobs and filled contracts in approximately 900 of the same; appellant's dollar volume is not disclosed. This court has stated that one who adopts a valid mark and establishes a large business in which the mark is used should have all doubts resolved in his favor as against newcomers in an opposition proceeding. *Kroger Grocery & Baking Company* v. *Blue Earth Canning Co.*, 24 CCPA (Patents) 1098, 88 F.2d 725, 33 USPQ 137. We think the latter rule must be applied with discretion, depending on the nature of the marks and goods involved and the particular facts of the case; yet, we think it is particularly applicable when, as here, the marks are essentially arbitrary as applied to the goods involved, and applicant has entered the field considerably later than the opposer.

We note also that appellant's position is materially different from that of the applicant in the *Lever Bros.* case, supra, upon which appellant relies heavily. In that case, opposer first used "Surf" on detergents in 1935 and the applicant first used "Surge" on detergents in 1947. However, the applicant had used "Surge" on milking machines since 1925; had continuously expanded use of its mark to related products and owned 23 registrations for the mark "Surge" for use on such products; had sold its milking machines in cartons labelled "Surge" and had included therein an unlabelled package of detergent prior to and after 1935; and had expended large sums for advertising "Surge" products and sold large quantities of merchandise to the dairy industry.

In view of the foregoing, the decision of the Commissioner is hereby affirmed.

AFFIRMED.

# PATENT SUITS

Notices under 35 U. S. C. 290; Patent Act of 1952

2,283,200, J. W. Flude, Method and apparatus for subsurface mining, D. C., S. D. Tex. (Houston), Doc. 7101, *J. W. Flude* v. *The Texas Co.* Case dismissed with prejudice (notice May 18, 1953). Doc. 7104, *J. W. Flude* v. *Geophysical Service, Inc.* Doc. 6552, *J. W. Flude* v. *The Atlantic Refining Co.* Doc. 6554, *J. W. Flude* v. *Humble Oil & Refining Co.* Doc. 6558, *J. W. Flude* v. *Pan American Production Co. et al.* Doc. 6553, *J. W. Flude* v. *Stanolind Oil & Gas Co.* Doc. 7100, *J. W. Flude* v. *Shell Oil Co.* Case dismissed with prejudice (notice May 18, 1953) in each of above cases.

2,381,334, M. L. Brownshield, Loop antenna unit, D. C., S. D. N. Y., Doc. 45/633, *North American Philips Co., Inc.* v. *M. L. Brownshield.* Defendant enjoined May 18, 1953.

2,485,760, K. D. Millis et al., Cast ferrous alloy, C. C. A., 4th Cir. (Richmond), Doc. 6579, *The International Nickel Co., Inc.* v. *Martin J. Berry, Inc.* Decree dismissing appeal May 15, 1953.

2,571,294, Sale & Press, Inner reflector mounting for flood lights; 2,571,295, same, Detachable mounting means for flood light reflectors, D. C., S. D. Calif. (Los Angeles), Doc. 14632-WB, *C. T. Biggs* v. *Flood-Lite Service, Inc., et al.* Consent judgment holding patents valid and infringed (notice May 15, 1953).

2,571,295. (See 2,571,294.)

2,636,369, S. Tait, Jr., Stocking fabric, suit for Declaratory Judgment filed May 19, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15264, *Ladd Hosiery Mills, Inc., et al.* v. *Vogue Mfg. Corp.*

Des. 146,529, A. Suraci, Cigar package; T. M. 113,423, Parodi Cigar Co. of New York, Inc., Cigars and smoking tobacco; T. M. 297,671, T. M. 297,672, T. M. 297,673, T. M. 297,689, T. M. 356,659, T. M. 399,165, same, Cigars; T. M. 368,283, same, Smoking tobacco; T. M. 567,381, same, Cigars, cigarettes and smoking tobacco, filed May 14, 1953, D. C., S. D. N. Y., Doc. 85/71, *Parodi Cigar Co. of New York* v. *Palumbo Cigar Co., Inc.*



Des. 151,732, Des. 151,733, Des. 165,129, W. G. Bley, Lady's stocking, filed May 19, 1953, D. C., E. D. Pa. (Philadelphia), Doc. 15265, *Sanson Hosiery Mills, Inc., et al.* v. *Mark Hosiery Mills.*

Des. 151,733. (See Des. 151,732.)

Des. 156,742, Z. S. Keck, Brassière, filed May 8, 1953, D. C., S. D. N. Y., Doc. 85/19, *Pliantform Foundations, Inc.* v. *Melody Bra & Girdle Co., Inc.*

Des. 165,129. (See Des. 151,732.)

# TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946

T. M. 113,423. (See Des. 146,529.)

T. M. 297,671. (See Des. 146,529.)

T. M. 297,672. (See Des. 146,529.)

T. M. 297,673. (See Des. 146,529.)

T. M. 297,689. (See Des. 146,529.)

T. M. 323,126, Carson Pirie Scott & Co., Piece goods, D. C., S. D. N. Y., Doc. 64/296, *Martin Weiner Corp.* v. *Tex-Style Vogues Corp.* Stipulation and order of injunction (notice received May 19, 1953).

T. M. 356,659. (See Des. 146,529.)

T. M. 368,283. (See Des. 146,529.)

T. M. 399,165. (See Des. 146,529.)

T. M. 519,097, Platt Luggage, Inc., Hand luggage, D. C., S. D. N. Y., Doc. 77/75, *Platt Luggage, Inc.* v. *Boyle Leather Goods Co., Inc.* Judgment dismissing complaint May 18, 1953.

T. M. 567,381. (See Des. 146,529.)

# NOTICES

## Order No. 5301

The Committee on Enrollment, established by Order No. 5268, is hereby reconstituted to consist of the following members: Arthur W. Crocker, Chairman, Thomas F. Murphy, Burnham Yung Kwai, Clarence W. Moore, and Helen I. Manning, Clerk.

This committee will receive applications for registration to practice before the Patent Office, conduct and supervise the examinations provided for by Rule 341(c), Rules of Practice in Patent Cases, maintain the register of patent attorneys and agents, and perform such other duties in connection with enrollment and recognition of practitioners as may be necessary.

ROBERT C. WATSON,
*Commissioner.*

July 29, 1953.

## Disclaimers

2,403,626.—*Irving Wolff* and *Ralph S. Holmes*, Haddonfield, N. J. RADIO PULSE POSITION INDICATING SYSTEM. Patent dated July 9, 1946. Disclaimer filed July 20, 1953, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1, 2, 4, 5, and 9 of said patent.

2,515,464.—*Milton J. Minneman*, Camden, N. J. DIRECT READING RADIO NAVIGATION SYSTEM. Patent dated July 18, 1950. Disclaimer filed July 20, 1953, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1, 3, and 4 of said patent.

2,551,681.—*Howard C. Lawrence, Jr.*, Haddonfield, N. J., and *Robert R. Freas, Jr.*, Jermyn, Pa. DIRECT READING LORAN NAVIGATION SYSTEM. Patent dated May 8, 1951. Disclaimer filed July 20, 1953, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1, 3, and 4 of said patent.

2,624,302.—*Sam H. Meister*, Shaker Heights, Ohio. MONOGRAMMING MACHINE. Patent dated Jan. 6, 1953. Disclaimer filed July 16, 1953, by the assignee, *Meistergram Corporation.*

Hereby enters this disclaimer to claim 5 of said patent.

## Adjudicated Patents

(C. A. III.) Ferngren Patent No. 2,128,239, for a process of molding plastic materials. Claims 7, 8, 19, 20, 21, 23, and 26 *Held* valid but not infringed. *Plax Corporation* v. *Elmer E. Mills Corporation*, 204 F.2d 302; 97 USPQ 198.

(C. A. III.) Ferngren Patent No. 2,175,053, for a process and apparatus for working organic plastic material and producing containers therefrom. Claim 11 *Held* invalid and not infringed, and claim 10 *Held* invalid. *Id.*

(C. A. III.) Ferngren Patent No. 2,230,188, for a process and apparatus for forming plastic materials. Claim 16 *Held* not infringed. *Id.*

(C. A. III.) Koptitke Patent No. 2,349,177, for a method of and apparatus for making blown plastic articles. Claim 6 *Held* valid but not infringed. *Id.*

## Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,500,778, R. E. Tobey, Refrigerator having an automatically controlled secondary refrigerant system, decided May 4, 1953, claims 14, 15, 16, and 17.

Pat. 2,523,244, J. D. Woodward, Navigation system with counter circuits for pulse timing and delay, decided Apr. 29, 1953, claims 1, 2, 5, 6, and 7.

Pat. 2,552,567, E. T. McBee and J. S. Newcomer, Dienophilic addition products of ketals of cyclic chlorocarbon ketones, decided July 10, 1953, claims 3 and 4.

Pat. 2,570,979, H. A. Phillips, Compound system for liquid refrigerant return, decided July 7, 1953, claims 1, 2, and 3.

## Interference Notice

[No. 4946]

*Paulette Laboratories, Inc., its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of The Armand Company, 124 Des Moines St., Des Moines, Iowa, for registration of a trademark, and Registration No. 306,899 issued October 3, 1933, to Paulette Laboratories, Inc., 791 Gravesend Avenue, Brooklyn, New York, and the notice of such declaration sent by registered mail to the said Paulette Laboratories, Inc. at the said address of record having been returned by the post office as undeliverable, notice is hereby given that unless said Paulette Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein, within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—August 11.)

THOMAS F. MURPHY,
July 16, 1953. *Assistant Commissioner of Patents.*

## Notice of Tentative Recordation of Trade Name

[T. D. 53287]

*Tentative recordation of trade name under section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943*

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
*Washington, D. C., July 6, 1953*

*To Collectors of Customs and others concerned:*

An application has been filed in the Treasury Department for the recordation of the following described trade name under the provisions of section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943:

"CLEMENTE JACQUES Y CIA., S. A.," owned by Clemente Jacques y Cia., S. A., a corporation organized under the laws of the Republic of Mexico, located and doing business at F. C. de Cintura No. 1, Mexico, D. F., Mexico, which trade name is used in connection with fruits and vegetables, canned, dried, or otherwise preserved; fish packed in airtight containers, either in oil or other substances; and fruit and vegetable pastes, manufactured in Mexico.

Any person who desires to file an opposition to the recordation of this trade name shall notify the Commissioner of Customs, Bureau of Customs, Washington 25, D. C., before the expiration of 30 days after July 15, 1953, of his intent to oppose the recordation. If a notice of opposition is filed, the opposer will be furnished with a copy of the application for recordation of the trade name, together with its supporting documents and instructions as to the procedure to be followed. The customs officers concerned will be given notice within 45 days after July 15, 1953, of any opposition proceeding.

Until 45 days after July 15, 1953, all articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and, thereafter, shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless a notice is received that an opposition has been filed, in which case such articles shall continue to be detained until a final determination is made concerning the right of the applicant to the trade name.

(Signed) D. B. STRUBINGER,
*Acting Commissioner of Customs.*

## Notice of Tentative Recordation of Trade Name

[T. D. 53302]

*Tentative recordation of trade name under section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943*

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
*Washington, D. C., July 27, 1953*

*To Collectors of Customs and Others Concerned:*

An application has been filed in the Treasury Department for the recordation of the following described trade name under the provisions of section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943:

"PENTACON CORPORATION," owned by the Pentacon Corporation, a corporation organized under the laws of the State of New York, located and doing business at 50 W. 29th Street, New York 1, New York, which trade name is used in connection with the importation and sale of cameras and accessories therefor, manufactured in Dresden, Germany.

Any person who desires to file an opposition to the recordation of this trade name shall notify the Commissioner of Customs, Bureau of Customs, Washington 25, D. C., before the expiration of 30 days after August 7, 1953, of his intent to oppose the recordation. If a notice of opposition is filed, the opposer will be furnished with a copy of the application for recordation of the trade name, together with its supporting documents and instructions as to the procedure to be followed. The customs officers concerned will be given notice within 45 days after August 7, 1953, of any opposition proceeding.

Until 45 days after August 7, 1953, all articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter, shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless a notice is received that an opposition has been filed, in which case such articles shall continue to be detained until a final determination is made concerning the right of the applicant to the trade name.

(Signed) D. B. STRUBINGER,
*Acting Commissioner of Customs.*

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,630,921. Hat Hanger. Patented Mar. 10, 1953. An inexpensive expendable hanger for protecting a cleaned and blocked hat during delivery from the cleaner's and storage at home. A sheet of cardboard is stamped in a single operation to provide: A panel having an aperture through which a hat crown is supported by turned-up segments; associated flaps for retaining and protecting the brim; a hook for hanging over a rod; and a second hinged panel which folds back to form a box-like protection over the under side of the brim. The second panel has tabs for inserting in slots in the first panel. A "junior" model has only one panel, adapted to support the hat and be received in a paper bag, with the hook extending out of the bag. Area is provided for advertising matter if desired. (Owners) N. B. Mithun and W. E. Stephenson, 1223 Helen Ave., Missoula, Mont. Group 26—62—91. Reg. No. 51,400.

Pat. 2,612,239. Wheel Chock for Dual Wheel Vehicles. Patented Sept. 30, 1952. Wheel chock for a pair of pneumatic tires mounted side by side on a dual wheel. A T-shaped hollow casting preferably of light metal alloy includes a wedge-shaped ground-engaging stop to transversely abut the wheels along its top, and an integral inverted V-shaped nose to extend inwardly along the ground between the tires. Spaced projections are provided along the marginal edges of the stop and nose to imbed in the ground and prevent slippage. In use, the stop is placed on the ground transversely abutting the wheels, and the nose is inserted between the wheels until the sides strike the adjacent tire casings. (Owners) Walter G. Watkins and Conn Withers. Correspondence to Conn Withers, National Commercial Bank Building, Liberty, Mo. Groups 33—72; 38—31. Reg. No. 51,401.

Pat. 2,629,628. Insect Repellent Attachment for Screen Doors. Patented Feb. 24, 1953. Insect repellent device for attachment to a screen door. A base of thin sheet material, such as heavy cardboard, has an opening near the upper end for a supporting cord loop. A pad of absorbent material saturated with an insect repellent solution is secured to the base. The loop is attached to a screw eye positioned in the screen door frame adjacent the top, center of the door. (Owner) E. J. Vaillancourt, P. O. Box 314, Nazareth, Pa. Groups 28—33; 40. Reg. No. 51,402.

Pat. 2,634,511. Rice Drier. Patented Apr. 14, 1953. Rice drier wherein the rice is placed on a series of superimposed perforated trays each in an enclosed compartment within a housing where dry compressed air is blown upwardly through the perforations, drying the rice regardless of high humidity, so the rice can be taken directly from the drier and milled. Valve-controlled chutes extending from a feed hopper carry the rice to the trays. The trays are connected to discharge tubes which connect the trays to a receiving header. When the rice is dry, a valve to the discharge tubes is opened and the rice passes to the receiving header and through a valve-controlled outlet in the lower end of the header into containers or bags. (Owners) Wilford H. Underwood and Ernst Toepfer, 215 North Ave. F, Crowley, La. Group 35—22. Reg. No. 51,403.

Pat. 2,504,093. Tool. Patented Apr. 11, 1950. This invention relates to pickaxes and pick-like tools in which the head of each tool has a pair of arms with a socket intermediate the arms for receiving a handle. The arms have inwardly extending tapered sockets to removably receive tapered shanks of bits. Flanges extending around the base portion of the bits embrace and nest the ends of the sockets to prevent the ends from spreading during use. The flanges also assume a substantial part of the thrust force to which the bits are subjected, thereby limiting jamming of the tapers in the sockets to such an extent that the bits may be removed without the use of wedges, drift pins, and the like. (Co-owner) Joseph Toth, Jr., Room 600, 31 St. James Ave., Boston 16, Mass. Group 33—52. Reg. No. 51,404.

Pat. 2,576,488. Crimped Plate Capacitance Strain Gauge. Patented Nov. 27, 1951. This invention provides a strain gauge which incorporates features adapted to augment or multiply change in capacity in relation to strain in a test piece while maintaining good linearity of response and achieving high percent capacity change without change in absolute capacity. The gauge employs a pair of relatively shiftable plate elements having crimped or similarly engaging surfaces acting in the manner of a wedge to thereby effect relative separation of the plates in a direction transverse the mean plane thereof. Means are provided for maintaining uniform pressure of interengagement of the plates, and the structure is adapted to be pasted or adhesively secured to a test piece and therefore subject to be strained along with the test piece. (Owner) Tinius Olsen Testing Machine Company, Easton Road, Willow Grove, Pa. Group 35—43. Reg. No. 51,405.

Pat. 2,576,489. Capacitance Strain Gauge. Patented Nov. 27, 1951. This invention provides a strain gauge which incorporates features adapted to augment or multiply changes in capacity in relation to strain in a test piece while maintaining good linearity of response. The increase in percent capacity change in relation to percent strain is accomplished without relying on relative shifting movement of plates as a whole with relation to each other when the test piece is strained. The gauge incorporates a pair of superimposed condenser plates, one of which is provided with crimps or flutes with the valleys of the crimps or flutes secured to the other plate so that the two plates as a whole constitute a unitary structure adapted to be pasted or adhesively secured to a test piece and therefore subject to be strained along with the test piece. (Owner) Tinius Olsen Testing Machine Company, Easton Road, Willow Grove, Pa. Group 35—43. Reg. No. 51,406.

Pat. 2,629,219. Front Mounted Tractor Mower. Patented Feb. 24, 1953. Mower includes a flexible mowing implement that is resiliently mounted on and adjustably suspended from the front of a tractor to accommodate and adapt the centrally arranged front cutting mechanism to irregularities in the surface of a field, thus insuring smooth operation of the cutters or reciprocating knives in cutting a swathe and laying the cut hay in correct arrangement on the field for removal of the crop. Power take-off mechanism is employed for transmitting rotary motion from the tractor shaft through a power shaft to the reciprocable cutting mechanism. Manually controlled mechanism is employed for adjusting the resiliently supported and flexible mowing mechanism to irregularities in the ground surface. Power-operated means are employed for elevating and otherwise vertically adjusting the implement with relation to the tractor. (Owner) Wesley Hooley, Hammett, Idaho. Group 35—21—22. Reg. No. 51,407.

Pat. 2,547,262. Multiple Dry Cell Battery. Patented Apr. 3, 1951. A thin, compact multiple dry cell is enclosed in a plastic or equivalent case having a plurality of cavities arranged in a horizontal plane. Each of these cavities contains a single dry cell unit which is connected to an adjacent unit by means of the overlapping negative electrode of the adjacent cell. A case is employed which is water-tight, but which is permeable to the gases generated by the battery. As a result of the special design, it is possible to use electrode metals no greater than 0.002 to about 0.005 inch in thickness. (Co-owner) Arthur McIlroy, 3324 South Allegheny St., Tulsa, Okla. Group 36—91. Reg. No. 51,408.

Des. 168,102. Box for Containing Confections. Patented Nov. 4, 1952. (Term 14 years.) Design for a box simulating a ship to contain candy and other confections for children. (Owner) Adolph H. Matsen, 1119 South 21st St., Tacoma, Wash. Groups 20—71; 26—69; 40. Reg. No. 51,409.

General Electric Company is prepared to grant non-exclusive licenses under the 49 patents listed below on reasonable terms to domestic manufacturers.

Applications for license may be addressed to: Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, New York.

*The following 6 patents relate to: Control system for printing presses; electron microscope; siphon for liquid-filled conservator type transformers; float device for operating switches; flash tube circuit for cameras; and yarn tensioning apparatus.*

Pat. 2,052,263. Control System. Aug. 25, 1936. Group 36—19. Reg. No. 51,410.

Pat. 2,426,866. Electron Optical System. Sept. 2, 1947. Group 39—13. Reg. No. 51,411.

Pat. 2,481,984. Siphon. Sept. 13, 1949. Group 36—19. Reg. No. 51,412.

Pat. 2,596,666. Float Device. May 13, 1952. Group 36—19. Reg. No. 51,413.

Pat. 2,622,229. Flash Tube Circuit. Dec. 16, 1952. Group 39—12. Reg. No. 51,414.

Pat. 2,624,027. Tension Adjusting Apparatus. Dec. 30, 1952. Groups 35—52; 36—19. Reg. No. 51,415.

*The following 3 patents relate to: Protective, starting, and ventilating arrangements for dynamoelectric machines.* Group 36—19.

Pat. 2,311,684. Dynamometer Type Electric Machine. Feb. 23, 1943. Reg. No. 51,416.

Pat. 2,607,831. Overload Protective System for Dynamoelectric Machines. Aug. 19, 1952. Reg. No. 51,417.

Pat. 2,620,461. Starting Arrangement for Dynamoelectric Machines. Dec. 2, 1952. Reg. No. 51,418.

*The following 2 patents relate to: Temperature measuring system for liquid filled transformers, and an electromagnetic gauge.* Group 36—13.

Pat. 2,380,251. Electromagnetic Gauge. July 10, 1945. Reg. No. 51,419.

Pat. 2,450,269. Temperature Measuring System. Sept. 28, 1948. Reg. No. 51,420.

*The following 4 patents relate to: Coating or molding synthetic resin compositions.* Group 28—83.

Pat. 2,542,070. Solutions of Polymeric Chlorotrifluoroethylene. Feb. 20, 1951. Reg. No. 51,421.

Pat. 2,542,071. Suspensions of Polymeric Chlorotrifluoroethylene. Feb. 20, 1951. Reg. No. 51,422.

Pat. 2,542,072. Suspensions of Polymeric Chlorotrifluoroethylene. Feb. 20, 1951. Reg. No. 51,423.

Pat. 2,617,779. Plasticized Vinyl Halide Resins and Electrical Conductors Insulated Therewith. Nov. 11, 1952. Reg. No. 51,424.

*The following 7 patents relate to: Locomotive front coupling; automatic great circle course computer for ships and the like; rotory pump; quenching device for metal; oil governor type prime mover regulating system; treatment of cobalt-platinum magnets; and fuel supply stem for a reaction motor mounted on the tip of a helicopter blade.*

Pat. 2,580,588. Railway Drop Coupler and Draft Gear. Jan. 1, 1952. Groups 35—69; 37—11. Reg. No. 51,425.

Pat. 2,610,403. Great Circle Course Computer. Sept. 16, 1952. Group 39—11. Reg. No. 51,426.

Pat. 2,611,534. Rotary Pump. Sept. 23, 1952. Group 35—61. Reg. No. 51,427.

Pat. 2,616,437. Quenching Device for Horisontally Moving Articles. Nov. 4, 1952. Group 33—12. Reg. No. 51,428.

Pat. 2,621,672. Liquid Actuated Prime Mover Regulating System With Viscosity Correction. Dec. 16, 1952. Group 35—69. Reg. No. 51,429.

Pat. 2,622,050. Process for Heat-Treating Cobalt-Platinum Magnets. Dec. 16, 1952. Group 33—12. Reg. No. 51,430.

Pat. 2,622,394. Centrifugal Balance Fuel Valve for Rotating Combustion Products Generators. Dec. 23, 1952. Group 37—22. Reg. No. 51,431.

*The following 7 patents relate to: Refrigerating apparatus; power failure alarms for home freezers; mechanism for opening and closing a refrigerator valve or the like with snap action; shaft seal for a refrigerator compressor; and a retaining clamp for holding a container of silica gel in predetermined position within a refrigerator.* Group 35—84.

Pat. 2,596,704. Alarm Switch. May 13, 1952. Reg. No. 51,432.

Pat. 2,604,761. Two-Temperature Refrigerating System. July 29, 1952. Reg. No. 51,433.

Pat. 2,606,429. Flue Cooling Arrangement for Cooling Refrigeration Units. Aug. 12, 1952. Reg. No. 51,434.

Pat. 2,610,873. Shaft Seal. Sept. 16, 1952. Reg. No. 51,435.

Pat. 2,617,867. Alarm for Power Failure. Nov. 11, 1952. Reg. No. 51,436.

Pat. 2,618,160. Snap Action Mechanism. Nov. 18, 1952. Reg. No. 51,437.

Pat. 2,625,360. Article Retaining Clamp. Jan. 13, 1953. Reg. No. 51,438.

*The following 2 patents relate to vacuum cleaners.* Group 36—21.

Pat. 2,616,115. Brush Belt Removing Means for Vacuum Cleaners. Nov. 4, 1952. Reg. No. 51,439.

Pat. 2,616,117. Suction Cleaner Belt Detacher. Nov. 4, 1952. Reg. No. 51,440.

*The following 3 patents relate to clutch and brake devices.* Group 35—66.

Pat. 2,617,507. Magnetic Fluid Mixture Brake. Nov. 11, 1952. Reg. No. 51,441.

Pat. 2,619,206. Clutch and Brake Device. Nov. 25, 1952. Reg. No. 51,442.

Pat. 2,624,435. Hysteretic Overrunning Clutch. Jan. 6, 1953. Reg. No. 51,443.

*The following 2 patents relate to: Tilting means for hinging a surface cooking unit of an electric range; and an electric floor fan.* Group 36—21.

Pat. 2,624,827. Surface Unit Tilting Means. Jan. 6, 1953. Reg. No. 51,444.

Pat. 2,625,319. Radial Flow Electric Fan. Jan. 13, 1953. Reg. No. 51,445.

*The following 2 patents relate to: The purification of inert gases; and the production of graphite carbon powder for such purification and for other purposes.*

Pat. 2,624,421. Machine and Method for Purifying the Inert Gases. Jan. 6, 1953. Group 35—69. Reg. No. 51,446.

Pat. 2,626,930. Chemically Active Graphitic Carbon Powder. Jan. 27, 1953. Group 32—97. Reg. No. 51,447.

*The following 11 patents relate to: Electric circuits and systems; electrical protective devices and arrangements; and miscellaneous electrical apparatus.* Group 36—11—19.

Pat. 2,079,447. Magneto. May 4, 1937. Reg. No. 51,448.

Pat. 2,158,859. Electric Protective System and Apparatus. May 16, 1939. Reg. No. 51,449.

Pat. 2,229,952. Magnetic Amplifier. Jan. 28, 1941. Reg. No. 51,450.

Pat. 2,300,269. System for Electric Valve Translating Apparatus. Oct. 27, 1942. Reg. No. 51,451.

Pat. 2,333,010. Electric Circuit. Oct. 26, 1943. Reg. No. 51,452.

Pat. 2,371,035. Protective Circuits for Rectifiers. Mar. 6, 1945. Reg. No. 51,453.

Pat. 2,391,759. Electric Circuit Interrupter. Dec. 25, 1945. Reg. No. 51,454.

Pat. 2,617,908. Flip-Open Disconnecting Switch. Nov. 11, 1952. Reg. No. 51,455.

Pat. 2,623,919. Prechargeable Spring Assembly for High-Voltage Bushings. Dec. 30, 1952. Reg. No. 51,456.

Pat. 2,625,662. Signal Discriminator. Jan. 13, 1953. Reg. No. 51,457.

Pat. 2,626,298. Sliding Connector for Bus Bar Sections. Jan. 20, 1953. Reg. No. 51,458.

# TRADE-MARKS

## OFFICIAL GAZETTE, AUGUST 18, 1953

[VOL. 673. No. 3]

## ACT OF 1946

**The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.**
**As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.**

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. 607,349. Pedigreed Seed Co., New York, N. Y. Filed Dec. 6, 1950.

**GREEN MEADOW**

For Lawn Grass Seed.
Claims use since 1937.

Ser. No. 622,682. Maria Folino Weld, doing business as The Creative Workshop, Watertown, Mass., assignor to Harold Berkowitz, Brookline, Mass. Filed Dec. 19, 1951.

**MINIASCAPE**

For Miniature Gardens, Miniature Landscapes, and Miniature Scenes, Containing Real Plant Life.
Claims use since July 20, 1951.

Ser. No. 629,804. The Logan Seed Company, Inc., Gilliam, La. Filed May 16, 1952.




The drawing is lined for the colors red, black, blue, brown, orange, and green.
For Seed Corn and Cotton Seed.
Claims use since on or about Mar. 31, 1952.

Ser. No. 629,910. Pfister & Vogel Tanning Co., Milwaukee, Wis. Filed May 19, 1952.

**VELO**

For Shoe Side Upper Leather.
Claims use since August 1951.

Ser. No. 631,657. John R. Evans & Company, Camden, N. J. Filed June 24, 1952.

**POLITAN**

For Leather.
Claims use since Feb. 23, 1952.

Ser. No. 636,056. Barsen Company, Minneapolis, Minn. Filed Oct. 2, 1952.

***Meadow Lawn***

Applicant disclaims the exclusive right to the word "Lawn" apart from the mark as shown.
For Lawn and Field Seed.
Claims use since Nov. 19, 1951.

Ser. No. 638,068. Courtaulds Limited, London, England. Filed Nov. 14, 1952. (Sec. 2f.)




Applicant claims ownership of Registrations Nos. 281,185, 281,184, and others.
For Artificial Staple Fibres Made From Cellulose.
Claims use since 1929.

Ser. No. 641,293. The Griess-Pfleger Tanning Co., Waukegan, Ill. Filed Jan. 26, 1953.

SMOOTHIE

For Leather.
Claims use since Jan. 10, 1953.

Ser. No. 641,485. American Hide and Leather Company, Flemington, N. J., and Boston, Mass. Filed Jan. 29, 1953.

MIRRO CALF

The word "Calf" is disclaimed apart from the mark as shown.
For Calf Leather.
Claims use since Nov. 21, 1952.

Ser. No. 641,577. O. M. Scott & Sons Company, Marysville, Ohio. Filed Jan. 30, 1953.



For Field, Garden, Lawn, and Grass Seeds.
Claims use since August 1949.

Ser. No. 641,805. O. M. Scott & Sons Company, Marysville, Ohio. Filed Feb. 5, 1953.



For Field, Garden, Lawn, and Grass Seeds.
Claims use since November 1948.

## CLASS 2

### RECEPTACLES

Ser. No. 614,332. Arkell Safety Bag Company, New York, N. Y. Filed May 25, 1951.

ARKELENE

For Bags; and Linings for Bags, Barrels, Boxes, and Drums.
Claims use since Feb. 24, 1948.

Ser. No. 622,599. Kromex Corporation, Cleveland, Ohio. Filed Dec. 17, 1951.

"Pantry Partners"

The word "Pantry" is disclaimed apart from the mark as shown.
For Canister Sets Consisting of Flour, Sugar, Coffee, and Tea Containers Made of Base Metal; Bread Boxes; Chef Sets Consisting of Flour, Sugar, Salt, and Pepper Shakers Made of Base Metal; Spice Sets Consisting of Ginger, Mustard, Paprika, Cayenne, Cinnamon, Nutmeg, Allspice, and Clove Shakers and a Tray or Rack Made of Base Metal; Range Sets Consisting of a Grease Can and Salt and Pepper Shakers Made of Base Metal; Salt and Pepper Shakers; and Waste Paper Baskets.
Claims use since January 1949.

Ser. No. 627,978. Shore Line Industries, Inc., Clinton, Conn. Filed Apr. 11, 1952.

POLLY PAK

The word "Pak" is disclaimed apart from the mark as shown.
For Refrigerator Bags and Bag Ties, the Ties Being Sold as a Unit With the Bags.
Claims use since Apr. 25, 1949.

Ser. No. 628,135. Western Products Incorporated, Newark, Ohio. Filed Apr. 15, 1952.




The word "Pax" is disclaimed apart from the mark as shown in the drawing.
For Plastic Bags.
Claims use since Oct. 1, 1948.



Ser. No. 628,631. International Paper Company, New York, N. Y. Filed Apr. 24, 1952.

BELVEDERE

For Paper Bags.
Claims use since May 7, 1951.

Ser. No. 629,994. The Electric Sprayit Company, Sheboygan, Wis. Filed May 21, 1952. (Sec. 2f.)

SPRAYIT

Applicant claims ownership of Registration No. 236,705.
For Pressure Tanks.
Claims use since Apr. 1, 1929.

Ser. No. 635,266. H. J. Justin and Sons, Inc., Fort Worth, Tex. Filed Sept. 15, 1952.

JUSTIN 'BOOTLEGGER'

For Collapsible Cardboard Insert for Packing Boots in Boxes.
Claims use since Sept. 1, 1952.

Ser. No. 635,499. Rena R. Taussig, Chicago, Ill. Filed Sept. 19, 1952.

RENALIN CASES

The word "Cases" and the pictorial representation of the goods are disclaimed apart from the mark shown.
For Envelope Type Merchandise Cases Made of Plastic or Glassine Material.
Claims use since August 1951.

Ser. No. 636,257. The Steel City Manufacturing Company, Youngstown, Ohio. Filed Oct. 6, 1952.

CHARTER newspaper line

Applicant disclaims the words "Newspaper Line" apart from the mark as shown.
For Newspaper Rural Delivery Route Tubes and Newspaper Sales Honor Boxes.
Claims use since June 1946.

Ser. No. 637,298. Bloomer Bros. Company, Newark, N. Y. Filed Oct. 29, 1952. (Sec. 2f.)

DUBL-CUSHION

For Egg Cartons.
Claims use since Jan. 9, 1938.

Ser. No. 641,725. Howard Manufacturing Corporation, Council Bluffs, Iowa. Filed Feb. 4, 1953.

Howard Seal Protected

Applicant claims ownership of Registration No. 527,405.
For Waterproof and Airproof Bags Made of Polyethylene.
Claims use since Nov. 15, 1947.

Ser. No. 642,502. Walking Meal, Inc., Erie, Pa. Filed Feb. 19, 1953.

WALKING MEAL

No claim is made to the word "Meal" apart from the mark as shown.
For Paperboard Boxes Containing a Serving Tray and Cups Made of Either Paper, Cardboard, or Plastic, for Prepared Food Packaging and Handling.
Claims use since April 1947.

Ser. No. 642,782. Standard Packaging Corporation, Chicago, Ill. Filed Feb. 25, 1953.

STANPAC

Applicant claims ownership of Registration No. 362,515.
For Liquid Tight Paper Cans and Paper Cartons.
Claims use since Sept. 1, 1952.

## CLASS 5

### ADHESIVES

Ser. No. 634,122. Sheller Manufacturing Corporation, Chicago, Ill. Filed Aug. 18, 1952. (Sec. 2f.)

Double Wear

For Friction Tape for Automobile, Bicycle, and Household Use.
Claims use since June 13, 1922.

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 617,336. Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Filed Aug. 4, 1951.

CEE BEE

Applicant claims ownership of Registration No. 288,110.
For Static Removing Acrylic Plastic Cleaners or Solutions, De-Icer Boot Removing Solutions, and Pre-Paint Components Used as Metal Conditioners, Primarily Used for Treating and Conditioning Metal Preparatory to Painting.
Claims use since Jan. 8, 1931.

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Ser. No. 641,284. Ergol Photochemical Research Limited, London, England. Filed Jan. 26, 1953.

ergol

Applicant claims ownership of British Registration No. 706,463, dated Apr. 16, 1952.
For Chemical Preparations To Be Used for Photographic Developers.

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Ser. No. 642,013. Ciba Limited, Basel, Switzerland. Filed Feb. 10, 1953.

CROMOPHTAL

Priority under Sec. 44(d). Swiss application filed Oct. 28, 1952, Registration No. 144,313, dated Oct. 28, 1952.
For Coal Tar Colors.

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## CLASS 11

### INKS AND INKING MATERIALS

Ser. No. 619,300. John P. Knight, doing business under the name and style of National Stellar Company, Detroit, Mich. Filed Sept. 27, 1951.

Stellar

For Typewriter and Adding Machine Ribbons, Carbon Paper, Ink Conducting Wicks and Holders Therefor, and Ink Containing Cartridges.
Claims use since Aug. 13, 1945.

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Ser. No. 639,027. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J. Filed Dec. 5, 1952.

THE SCALES

For Carbon Paper, Writing and Drawing Ink, Typewriter Ribbons, Rubber Stamp Pads, Duplicating Ink, White Photoprint Ink.
Claims use since 1887.

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 600,092. Louis A. Tremmel, doing business as August Tremmel & Son, Biloxi, Miss. Filed June 30, 1950.

Alson Products

No claim is made to the word "Products" except in the association shown.
For Roofing Devices—Namely, Wall Ties, Ridge Clips, and Gutter Hangers.
Claims use since Aug. 31, 1948.

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Ser. No. 609,976. Lawrence S. Holmboe, doing business as Elis (L. S.) Equipment Company, Oklahoma City, Okla. Filed Feb. 12, 1951.

ELIS (L. S.)

For Shores (for Concrete Forms); Shore Clamps, Shore-Heads; Scaffolding Clamps; and Hoisting Towers and Parts Thereof.
Claims use since Jan. 1, 1930.

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Ser. No. 610,040. Kelley Manufacturing Company, Houston, Tex. Filed Jan. 26, 1951.

KELODE

For Load Transfer Units Having Parts for Embedment in the Adjoining Edge Portions of Adjoining Concrete Slabs.
Claims use since Aug. 30, 1950.

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Ser. No. 614,854. Sprayo-Flake Company, Chicago, Ill. Filed June 6, 1951. (Sec. 2f.)

Sprayo-Flake

Applicant claims ownership of Registration No. 245,591.
For Fibrous Materials for Use in Thermal and Acoustical Insulation and Adhesives and Binders Sold as a Companion Product for Use Therewith in Thermal and Acoustical Insulation.
Claims use since June 25, 1927.

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Ser. No. 615,748. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed June 27, 1951.

AMPREG

For Synthetic Resin Composition for Coating and Impregnating Concrete and Porous Metal To Provide a Seal Which Is Resistant to Water, Organic Solvents, Salts, Acids, and Alkalies.
Claims use since Apr. 6, 1951.



Ser. No. 617,554. Redwood Sales Company, San Francisco, Calif. Filed Aug. 10, 1951. (Sec. 2f.)

SEQUOIA BRAND

Applicant disclaims the word "Brand" when used apart from the mark as a whole.
For Lumber.
Claims use since August 1927 on the mark as shown; and since 1926 as to "Sequoia."

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Ser. No. 635,215. BJ Service, Inc., Long Beach, Calif. Filed Sept. 13, 1952.

DIAMIX

For Cement Additive and Extender for Use in Cementing Wells.
Claims use since on or about June 10, 1952.

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Ser. No. 637,053. Lacey Plywood Company, Inc., Lacey, Wash. Filed Oct. 23, 1952. (Sec. 2f.)

MULTI-PLYD

Applicant claims ownership of Registration No. 505,554.
For Plywood and Plywood Blocks for Flooring.
Claims use since on or about Feb. 17, 1947.

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Ser. No. 638,025. Harry van der Gaast, doing business as H. van der Gaast & Co., Miami, Fla. Filed Nov. 13, 1952.

LITEVENTROLS

The word "Vent" is disclaimed apart from the mark as shown.
For Glass Jalousie Windows and Doors.
Claims use since on or about July 28, 1952.

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Ser. No. 639,552. The Burns & Russell Company, Baltimore, Md. Filed Dec. 16, 1952.

Spectra-Glaze

The word "Glaze" is disclaimed apart from the mark as shown.
For Molded Masonry Building Blocks and Bricks.
Claims use since April 1948.

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Ser. No. 639,698. Von B. Graham, doing business as The Texas Ledge Stone Co., Clarksville, Ark. Filed Dec. 18, 1952.

HARMONY · LEDGESTONE

No claim is made to the word "Ledgestone" apart from the mark as shown on the drawing.
For Building Stone.
Claims use since May 1, 1948.

Ser. No. 640,394. D. L. Fair Lumber Company, Louisville, Miss. Filed Jan. 6, 1953.

DLFAIR

No claim is made to the surname "Fair" apart from the mark as shown on the drawing.
For Finished Lumber.
Claims use since 1925.

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Ser. No. 640,587. Sears, Roebuck and Co., Chicago, Ill. Filed Jan. 9, 1953.

Cross Country

For Arbors, Pergolas, Trellises, Trellis Kits (Knocked Down Trellises for Assembly), Benches, Fence Stakes, Fence Pickets, Fence Gates (All Made of Wood).
Claims use since on or about Jan. 15, 1950.

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Ser. No. 640,862. Lally Column Co., Cambridge, Mass. Filed Jan. 16, 1953. (Sec. 2f.)

LALLY

Applicant claims ownership of Registrations Nos. 180,822, 204,162, and others.
For Building Columns of Steel or Iron Filled With Concrete or Other Plastic Material.
Claims use since in the year 1897.

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Ser. No. 641,009. British Columbia Forest Products Limited, Vancouver, British Columbia, Canada. Filed Jan. 21, 1953.

BLACK HAWK

Applicant claims ownership of Registration No. 570,714.
For Shingles.
Claims use since 1929.

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Ser. No. 641,177. E. H. Darby, trading as E. H. Darby & Company, Sheffield, Ala. Filed Jan. 23, 1953.

Ualco

For Aluminum Windows.
Claims use since Oct. 1, 1946.

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Ser. No. 642,243. The Robinson Clay Product Co., Akron, Ohio. Filed Feb. 18, 1953.

F R C

Applicant claims ownership of Registration No. 273,148.
For Refractory Bricks and Blocks.
Claims use since March 1905.

Ser. No. 642,346. Benjamin Foster Company, Philadelphia, Pa. Filed Feb. 17, 1953.

**SEALFAS**

Applicant claims ownership of Registrations Nos. 269,112, 525,000, and 566,096.
For Lagging Cloth and Lagging Tape.
Claims use since July 2, 1951.

Ser. No. 642,476. Jasco Aluminum Products Corporation, New Hyde Park, N. Y. Filed Feb. 19, 1953.

**JASCO**

For Aluminum Storm Windows and Window Screens and Doors.
Claims use since January 1952.

Ser. No. 642,621. Coloramic Tile Co. Inc., Chicago, Ill. Filed Feb. 24, 1953.

COLORAMIC

For Plastic Wall Tile.
Claims use since on or about June 1952.

Ser. No. 642,974. Kentile, Inc., Brooklyn, N. Y. Filed Mar. 2, 1953.

**KENFLEX**

The suffix "Flex" is disclaimed apart from the word combination "KenFlex." Applicant claims ownership of Registrations Nos. 336,151, 344,245, and others.
For Floor Tile Composed in Part of Asphalt and Vinyl Plastic.
Claims use since Jan. 29, 1953.

Ser. No. 643,595. Keasbey & Mattison Company, Ambler, Pa. Filed Mar. 13, 1953.

**KORRUTHERM**

Applicant claims ownership of Registrations Nos. 533,971 and 545,990.
For Asbestos-Cement Sheets in Smooth, Rough, and Corrugated Forms.
Claims use since on or about Feb. 26, 1953.

Ser. No. 644,031. Gustin-Bacon Manufacturing Company, Kansas City, Mo. Filed Mar. 23, 1953.

ULTRACOUSTIC

The representation of the goods is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 500,585 and 574,792.
For Acoustical Insulation Formed of Bonded Fibrous Material.
Claims use since Feb. 27, 1953.

Ser. No. 644,199. Timber Engineering Company, Washington, D. C. Filed Mar. 25, 1953.

TECO WEDGE-FIT

Applicant makes no claim to exclusive rights in the term "Wedge-Fit" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 307,738, 386,736, and others.
For Metal Timber Connectors.
Claims use since Aug. 19, 1952.

## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 643,629. Harry Angrist, Elisabeth, N. J. Filed Mar. 16, 1953.

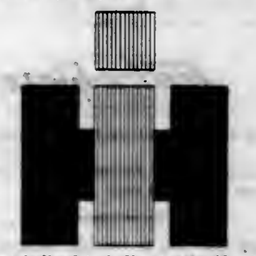
**"Z-Z-ZINGERS"**

For Wood and Sheet Metal Screws.
Claims use since Oct. 11, 1952.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 613,171. International Harvester Company, Chicago, Ill. Filed Apr. 26, 1951.



The drawing is lined to indicate red. No claim to color is made. Applicant claims ownership of Registrations Nos. 420,804 and 421,687.
For Flux and Solder—Namely, a Combination of Flux and Solder, Which, When Applied to the Metallic Parts To Be Soldered by Brushing, by Dipping, by Spraying, or by Spreading on With a Spatula, Prepares the Said Parts for Subsequent Heating and Bonding.
Claims use since Aug. 2, 1950.



Ser. No. 643,146. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed Mar. 5, 1953.

**FRIX**

For Copper Base Alloy for Forming Low Friction Hard Overlays on Other Metal Surfaces.
Claims use since Feb. 25, 1953.

## CLASS 15

### OILS AND GREASES

Ser. No. 642,174. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Filed Feb. 12, 1953.

FLIGHT STARTING FLUID

Applicant disclaims the words "Starting Fluid" apart from the mark as shown. Applicant claims ownership of Registrations Nos. 209,843, 301,882, and others.
For Starting Fuel for Compression-Ignited Engines Containing Volatile Organic Compounds Which Are Readily Ignitible by Compression at Low Temperatures.
Claims use since Feb. 19, 1952.

Ser. No. 643,059. Paragon Oil Company, Inc., Brooklyn, N. Y. Filed Feb. 18, 1953.

**TUFTEX**

For Lubricating Oil.
Claims use since Nov. 10, 1952.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 584,570. The Atlas Mineral Products Company of Peonsylvania, Mertztown, Pa. Filed Sept. 8, 1949.

**ALKALOY**

For Abrasive Resistant Coating Composition for Industrial Application to Concrete, Metal, or Wood Surfaces Having a High Resistance to Splash or Fumes From Water Solutions of Non-Oxidizing Acids, Salts, and Alkalies and Comprising a Thermosetting Resin.
Claims use since July 11, 1949.

Ser. No. 601,330. Arthur C. Mangels Industries, Philadelphia, Pa. Filed July 27, 1950.

FLEX-O-GLOSS

No claim is made to the word "Gloss" apart from the mark as shown.
For Paint Enamels.
Claims use since Feb. 24, 1949.

Ser. No. 611,942. Con-Cor Paint Company, Kansas City, Mo. Filed Mar. 29, 1951.

**CON-TEX**

For Cement-Base, Waterproof Coating Compound.
Claims use since Feb. 1, 1949.

Ser. No. 630,486. Eutectic Welding Alloys Corporation, New York, N. Y. Filed May 29, 1952.

**SPO**

For Resin Containing Composition for Coating Metal Surfaces To Protect Them Against Corrosion or To Provide a Corrosion Resistant Seal.
Claims use since May 20, 1952.

Ser. No. 631,362. Benjamin Moore & Co., New York, N. Y. Filed June 18, 1952.

**IMPERVO**

Applicant claims ownership of Registrations Nos. 161,566 and 42,619.
For Stains and Enamels.
Claims use since Dec. 28, 1908.

Ser. No. 631,735. J. C. Hempel's Skibsfarvefabrik A/S, Copenhagen, Denmark. Filed June 25, 1952. (Sec. 2f.)

*Hempel's*

For Paints and Varnishes.
Claims use since Dec. 30, 1916; and first used in commerce between foreign nations and the United States on Jan. 31, 1940.

Ser. No. 634,911. Murray P. Poznak, doing business as Acrolite International, Elizabeth, N. J. Filed Sept. 5, 1952.




The term "Sprey" is disclaimed apart from the mark as shown.

For Acrylic Plastic in Liquid Form Used for Waterproofing, Protecting, and Preserving Masonry, Metals, Glass, Leather, and Paper.

Claims use since Aug. 18, 1952.

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Ser. No. 636,860. Nuodex Products Co. Inc., Elizabeth, N. J. Filed Oct. 18, 1952.

**SOLUMET**

For Driers for Ready Mixed Paints, Enamels, Varnishes, and Coatings for Oil Cloth, Linoleums, and Coated Fabrics, Such Driers as Are Used for Coating Materials Being Also Used as Driers for Core Oils Such as Are Used in Making Cores for Castings, the Identical Driers Being Applicable for Use for All of Said End Products.

Claims use since Sept. 2, 1952.

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## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 607,759. Nips, Inc., Naw York, N. Y. Filed Dec. 16, 1950.

**SNAPAWAKE**

For Solutions of Smelling Salts.

Claims use since Nov. 20, 1950.

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Ser. No. 608,478. The Smith-Dorsey Company, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill., a corporation of Delaware. Filed Jan. 6, 1951.

**NEUTRAZYME**

For Enzyme Inhibitor for Rectal Application in the Treatment of Intestinal Pathology Such as Ulcerative Colitis and Moist Puritis Ani.

Claims use since November 1949.

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Ser. No. 615,634. Edgar A. Ferguson, Jr., Brooklyn, N. Y. Filed June 25, 1951.

**stade**

For Analgesic and Gastric Sedative.

Claims use since Jan. 30, 1951.

Ser. No. 615,982. Laboratoires Laroche Navarron, Levallois-Perret, Seine, France. Filed July 2, 1951.

**FRENANTOL**

Applicant claims ownership of French Registration No. 396,696, dated Sept. 21, 1949.

For Pharmaceutical Products Containing as Basic Ingredient Paraoxypropiophenone or Parahydrooxypropiophenone and Acting as Regulator for the Hypophysis.

Claims use since Dec. 17, 1949; and first used in commerce between France and the United States on Dec. 17, 1949.

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Ser. No. 630,122. Commercial Solvents Corporation, New York, N. Y. Filed May 23, 1952.

**PARENTRACIN**

For Bacitracin for Intramuscular Injection.

Claims use since May 5, 1952.

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Ser. No. 630,967. Simpson Laboratories, Inc., New York, N. Y. Filed June 9, 1952.

**TIBUSAN**

For Therapeutic Drug Consisting Substantially of Isonicotinic Acid Hydraside.

Claims use since May 22, 1952.

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Ser. No. 632,361. Farmaceutici Italia S. A., Milan, Italy. Filed July 10, 1952.

**NICIZINA**

Priority is claimed under Sec. 44(d). Italian application Mar. 17, 1952; Registration No. 107,342, dated May 13, 1952.

For Pharmaceutical Product Used in the Therapy of Tuberculosis and Leprosy.

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Ser. No. 634,706 S. B. Penick & Company, New York, N. Y. Filed Aug. 30, 1952.

**FORTRACIN**

For Bulk Feed Supplement for Livestock and Poultry Whose Principal Ingredients Are the Antibiotic Bacitracin or Its Methylene Disalicylic Acid Derivative Fermentation Byproducts, and an Inert Filler.

Claims use since about July 17, 1952.

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Ser. No. 634,985. Mead Johnson & Company, Evansville, Ind. Filed Sept. 8, 1952. (Sec. 2f as to "Mead.")




Applicant claims ownership of Registrations Nos. 173,340, 184,697, and others.

For Pharmaceutical Preparations Which Supply Nutritional Needs—Namely, Specially Prepared Milk Modifier and Dietetic Products Containing Maltose and Dextrins With and Without Added Ascorbic Acid or Potassium Bicarbonate; a Whole Milk Formula With Added Vitamin D, in Fluid Form, for Infants; a High Protein, Low Fat Formula With Added Vitamin D, in Fluid Form, for Infants; Specially Prepared Homogenized and Spray Dried Product for Premature and Newborn Infants Consisting of Skimmed Milk, Maltose, Dextrins, Calcium Caseinate and Oils, Homogenized and Spray Dried; a Calcium Caseinate Preparation Used To Correct Diarrhea and Colic in Infants and To Raise the Protein Content of Food Mixtures; a Mixture of Skim Milk and Whole Milk, Homogenized and Spray Dried, Specially Prepared for Use in Infant Feeding; Powdered Lactic Acid Milks; Powdered Protein Milk Made From Whole Milk Curd and Non-Fat Milk Solids With Added Lactic Acid and Sodium Lactate, Homogenized and Spray Dried, Specially Prepared for Use in Infant Feeding; Hypo-Allergenic Product Composed of a Hydrolysate of Protein, Dextrins, Maltose, and Other Ingredients; a Liquid Vitamin Preparation Containing Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; a Liquid Vitamin Preparation Containing Vitamins A, D, and C; an Emulsion of Vitamins A, D, C, Thiamine, Riboflavin, and Niacinamide; an Emulsion of Vitamins A, D, and C; a Liquid Vitamin Preparation Containing Ascorbic Acid; Ascorbic Acid Tablets; Percomorph Fish Liver Oils, Liquid and Capsules; Cod Liver Oil Fortified With Percomorph Liver Oil; Cod Liver Oil, Standardized; Brewers Yeast in Powdered and Tablet Form Providing Vitamin B Complex; Mixed Vitamins Capsules; Vitamin and Mineral Capsules; a Concentrated Solution of Ferrous Sulphate Used for the Treatment of Iron Deficiency; Preparation Specially Designed for Use in High Protein Low Fat Diets; a Preparation Specially Designed for Use in Diets of Restricted Sodium Content; Dietary Preparation Containing Protein Milk and Banana Powder Designed for the Treatment of Certain Disturbances of Normal Intestinal Function; Solutions of a Hydrolysate of Protein; and Solutions of a Hydrolysate of Protein and Dextrose With and Without Alcohol or Ringer's Lactate.

Claims use since Oct. 23, 1951, on the mark as shown; and since 1910 on the word "Mead."

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Ser. No. 635,120. Capital Drug Company, doing business as Pope Laboratories, Augusta, Maine. Filed Sept. 11, 1952.

**OINT-EASE**

The word "Ease" is disclaimed apart from the mark as shown on the drawing.

For Preparation for the External Treatment of Muscular Aches and Pains, for Tired and Burning Feet and as an Inhalant.

Claims use since Aug. 8, 1942.

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Ser. No. 639,837. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 20, 1952.

**CRYSTA-BEE**

Applicant disclaims the word "Bee" apart from the mark as shown.

For Vitamin Capsules.

Claims use since on or about July 15, 1952.

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Ser. No. 640,049. S. Pfeiffer Manufacturing Co., St. Louis, Mo. Filed Dec. 26, 1952.

**NUXOTONE**

Applicant claims ownership of Registration No. 270,319.

For Medicinal Tonic Recommended for Persons in Weak and Run-Down Condition, Nursing Mothers, Aged Persons, Delicate Children, and Convalescents.

Claims use since Jan. 1, 1912.

Ser. No. 640,246. Whitehall Pharmacal Company, New York, N. Y. Filed Dec. 31, 1952.

**infraRUB**

Except in connection with the mark as a whole no claim is made to the word "Rub."

For Analgesic Cream.

Claims use since May 26, 1952.

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Ser. No. 640,815. Richard L. Spencer, East Mansfield, Ohio. Filed Jan. 15, 1953.

**QUAKER DROPS**

Applicant disclaims the word "Drops" apart from the mark shown. Applicant claims ownership of Registration No. 372,129.

For Internal Medical Preparation for the Treatment of Rheumatism, Neuritis, and Arthritis.

Claims use since Dec. 12, 1950.

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Ser. No. 641,842. Ives-Cameron Company, Inc., New York, N. Y. Filed Feb. 6, 1953.

**SOLUTHERA**

For Polyvitamins in Dosage Form.

Claims use since Jan. 21, 1953.

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Ser. No. 642,032. Charles C. Haskell & Co., Inc., Richmond, Va. Filed Feb. 10, 1953.

**C-M-I**

For Medicinal Preparation Containing Lipotropic Factors for Use in the Prevention and Treatment of Disturbances in Fat Metabolism.

Claims use since Dec. 11, 1950.

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Ser. No. 642,193. Wintbrop-Stearns Inc., New York, N. Y. Filed Feb. 12, 1953.

**ALEVAIRE**

For Aerosol Inhalation in Bronchopulmonary Disorders.

Claims use since Jan. 19, 1953.

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Ser. No. 642,668. Lincoln Laboratories, Inc., Decatur, Ill. Filed Feb. 24, 1953.

**HEXATHRICIN**

For Composition for Treatment of Burns and Abraded Areas Packaged in Aerosol Bomb Type Dispensers.

Claims use since Dec. 23, 1952.

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Ser. No. 642,912. The Upjohn Company, Kalamazoo, Mich. Filed Feb. 27, 1953.

**Cortef**

For Medicinal Preparation for the Treatment of Metabolic Disturbances.

Claims use since Feb. 9, 1953.

Ser. No. 642,953. Thomas C. Dilbeck, doing business as The Dilbeck Company, Los Angeles, Calif. Filed Mar. 2, 1953.

RID-O-BAG

For Medicament Directed to the Alleviation of the Smoking Habit.
Claims use since Feb. 12, 1953.

Ser. No. 643,038. Irwin, Neisler & Company, Decatur, Ill. Filed Mar. 3, 1953.

**VERENTERAL**

For Preparation To Be Administered Intravenously for the Relief of Eclampsia and Severe Pre-Eclampsia Conditions and Severe Hypertension Conditions.
Claims use since Dec. 8, 1950.

Ser. No. 643,232. The Lambert Company, St. Louis, Mo. Filed Mar. 6, 1953. (Sec. 2f.)

**ZYMEDENT**

For Medicated Mouthwash.
Claims use since Feb. 26, 1953.

Ser. No. 643,265. Ames Company, Inc., Elkhart, Ind. Filed Mar. 9, 1953.

**NOSTYN**

For Pharmaceutical Preparation for Sedative and Hypnotic Purposes.
Claims use since Feb. 9, 1953.

## CLASS 19

### VEHICLES

Ser. No. 590,737. Elasti-Seal Marine Products, Inc., Oak Park, Ill. Filed Jan. 12, 1950.

**ELASTI-SEAL**

Applicant disclaims the exclusive use of the word "Seal."
For Row Boats and Outboard Motor Boats Having Rubber Packed Joints.
Claims use since Jan. 31, 1948.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 613,860. Aircraft-Marine Products Inc., Harrisburg, Pa. Filed May 15, 1951.

bomb-tail

For Insulated Electrical Connectors.
Claims use since Jan. 18, 1951.

Ser. No. 628,318. Zokal Soldering Tip Sales, Chicago, Ill. Filed Apr. 18, 1952.

ZOKAL

For Electric Soldering Irons and Tips for Electric Soldering Irons.
Claims use since Nov. 17, 1950.

Ser. No. 643,763. Incoro, Inc., Kingston, N. Y. Filed Mar. 17, 1953.

**INCORO**

For Electric Coffee Roasters.
Claims use since during the month of September 1951.

## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 626,785. Henry Casimir Doran, doing business as H. C. Doran Co., Battle Creek, Mich. Filed Mar. 21, 1952.

**DECA-CHESS**

Applicant disclaims the generic term "Chess" apart from the mark.
For Special Deck of Cards Used in Conjunction With Game of Chess.
Claims use since Nov. 19, 1949.

Ser. No. 645,400. Anton F. Escudier, Chicago, Ill. Filed Apr. 16, 1953.

**THE BUCCANEER**

For Telescopes and Binoculars in the Nature of Toys.
Claims use since Mar. 2, 1953.

Ser. No. 645,401. Anton F. Escudier, Chicago, Ill. Filed Apr. 16, 1953.

**THE MARINER**

For Telescopes and Binoculars in the Nature of Toys.
Claims use since Mar. 4, 1953.



Ser. No. 647,591. Milton Bradley Company, Springfield, Mass. Filed May 25, 1953.

PIRATE AND TRAVELER

For Board Game.
Claims use since December 1912.

Ser. No. 647,720. Progressive Products Company, Hollywood, Calif. Filed May 26, 1953.

POLICE DRAGNET

For Game of Skill and Chance Played With Special Cards and Dice and Movable Markers on a Board Designed To Represent a Typical American City.
Claims use since May 7, 1953.

Ser. No. 647,986. Edwin L. Boles, Pacific Palisades, Calif. Filed June 1, 1953.

**mystamaze**

For Multiple Deck, Rolling Ball Puzzle.
Claims use since Jan. 3, 1952.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 615,261. Kochs Adlernaehmaschinen Werke, A. G., Bielefeld, Federal Republic of Western Germany. Filed June 9, 1951. (Sec. 2f.)

**ADLER**

Applicant claims ownership of Registration No. 200,878.
For Domestic and Industrial Sewing Machines and Sewing Machine Attachments and Parts Thereof.
Claims use since August 1948 on the mark shown; and about the year 1905 in another form; first used in commerce among the several States in 1924; and in August 1948 in its present form.

Ser. No. 615,262. Kochs Adlernaehmaschinen Werke, A. G., Bielefeld, Federal Republic of Western Germany. Filed June 9, 1951. (Sec. 2f as to "Adler.")

ADLER

The representation of the sewing machine shown on the drawing is disclaimed apart from the mark as shown.
Applicant claims ownership of Registration No. 200,873.
For Domestic and Industrial Sewing Machines and Sewing Machine Attachments and Parts Thereof.
Claims use since August 1948 on the mark shown; and about the year 1905 as to "Adler"; first used in commerce among the several States as to "Adler" in 1924; and in its present form in August 1948.

Ser. No. 623,984. Pioneer Steel Ball, Incorporated, Unionville, Conn. Filed Jan. 23, 1952.

**SE-JECTOR GAUGED**

The word "Gauged" is disclaimed apart from the mark as shown.
For Finished Metal Bearing Balls.
Claims use since Dec. 19, 1951.

Ser. No. 627,494. Cherry-Burrell Corporation, Chicago, Ill. Filed Apr. 3, 1952.

**Superhomo**

For Processing Apparatus for Dairy Products and the Like—Namely, Homogenizers.
Claims use since October 1948.

Ser. No. 632,109. Arkwright, Incorporated, New York, N. Y. Filed July 3, 1952.

**FIRST LADY**

For Sewing Machine Needles, Hand Operated Meat Grinders, Fruit Juice Mixers, and Can Openers; Sewing Scissors and Shears; Razors and Razor Blades for Shaving Hair From Legs, Arms, and Under Arms.
Claims use since May 1, 1930.

Ser. No. 635,938. Standard Pressed Steel Co., Jenkintown, Pa. Filed Sept. 29, 1952.

**SPS**

Applicant claims ownership of Registration No. 597,472.
For Cabinet Work Benches, Shaft Couplings, Shaft Bearings (Clamp Box), Shaft Bearings (Pillow Block), Clamp Couplings (Shaft), Split Safety Shaft Collars, Machine Power Shaft Accessories—Namely, Steel Drop Hangers, Steel Post Hangers, Steel Box Hanger Frames, Steel Frames, Bearing Openings, Counter Shaft Hangers, Wall Brackets, Floor Stands, Girder Clamps, Pillow Blocks and Hex Keys for Use With Socket Screws and Flat Head Cap Screws.
Claims use since Mar. 29, 1949.

Ser. No. 639,766. Clark Moore, doing business as Asphalt Maintenance Company, New York, N. Y. Filed Dec. 19, 1952.

**CLARKMOORE—HEATER—PLANER**

The word "Clarkmoore" is a combination of the given and surname of the owner of the trade-mark. The words "Heater-Planer" are disclaimed apart from the mark as shown.
For Road Maintenance Equipment—Namely, a Mobile Asphalt Road Conditioning Unit With Heater and Hydraulically Operated Planer for Repairing Bituminous Road Surfaces.
Claims use since Mar. 1, 1948.

Ser. No. 639,816. The Fairfield Engineering Company, Marion, Ohio. Filed Dec. 20, 1952.

FAIRFIELD

For Mixing Machinery for Feed, Grains, and the Like; Hammermills, Portable Belt and Drag Conveyors and Car Unloaders, and Stationary Coal and Ash Handling Equipment, Elevators, Conveyors (Drag, Belt, Flight, Apron, Package, Screw, Slat, and the Like), and Hoists, for Package and Bulk Material Handling Systems.
Claims use since July 11, 1922.

Ser. No. 641,252. Hans Schadler, Ellendorf, Germany. Filed Oct. 21, 1952.



Applicant claims ownership of German Registration No. 616,208, dated Jan. 2, 1952.
For Sewing Machines and Parts Therefor.

## CLASS 26

## MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 616,323. Keuffel & Esser Company, Hoboken, N. J. Filed July 11, 1951.

MARATHON

For Drafting Ruling Pens.
Claims use since February 1948.

Ser. No. 617,671. National Cine Equipment, Inc., New York, N. Y. Filed Aug. 14, 1951.

HYDROLLY

For Combined Television and Motion Picture Camera Dolly and Hydraulic Lift.
Claims use since July 1, 1951.

Ser. No. 618,254. Sellstrom Manufacturing Company, Chicago, Ill. Filed May 17, 1951. (Sec. 2f.)

sellstrom

Applicant claims ownership of Registration No. 419,957.
For Industrial and Sporting Goggles, Spectacles, Welders' Helmets; Eye, Nose, and Face Shields and Parts Thereof, and Lenses for Spectacles and Goggles.
Claims use since December 1943.

Ser. No. 619,406. Overseas Finance & Trading Company Inc., San Francisco, Calif. Filed Sept. 29, 1951.

NIPPON KOGAKU

The words "Nippon" and "Kogaku" are disclaimed apart from the mark as a whole.
For Cameras, Microscopes, Lenses, Binoculars, and Lens-Measuring Instruments.
Claims use since Mar. 1, 1949.

Ser. No. 622,557. Ranco Incorporated, Columbus, Ohio. Filed Dec. 15, 1951.

Ranco

Applicant claims ownership of Registration No. 341,055.
For (1) Temperature Responsive Mechanism for Controlling Automatic Refrigerators, (2) Temperature Responsive Mechanism for Controlling Heaters for Passenger Compartments of Automobiles, (3) Temperature Responsive Mechanism for Controlling Heaters for Stoves or Ovens, (4) Combination Fluid Control Valve and Temperature Responsive Control Mechanism Therefor, (5) Combination Electric Motor Starting Relay and Temperature Responsive Overload Controls for Electric Motors, and (6) Combination Temperature Responsive Mechanism for Controlling Automatic Refrigerators and Electric Timer for Automatically Effecting Start of Defrosting Cycle.
Claims use since May 27, 1927.

Ser. No. 627,125. Herbert George Co., Chicago, Ill. Filed Mar. 27, 1952.

Stylex

For Cameras and Parts Thereof.
Claims use since Mar. 5, 1952.

Ser. No. 627,947. Kay Electric Company, Pine Brook, N. J. Filed Apr. 11, 1952.

KILO-SWEEP

The term "Sweep" is disclaimed apart from the mark as shown.
For Instrument That Is a Narrow Band Sweeping Oscillator for Use With an Oscilloscope in Defining the Pass Band Characteristics of Amplifiers and Filters by Providing a Narrow Frequency Sweep Which Can Be Centered at Frequencies From 50 Kilocycles to 2 Megacycles and Also Develope Marker Pips Which Are Independent of the Amplifier Circuits Under Test and Other Uses.
Claims use since May 1951.



Ser. No. 627,948. Kay Electric Company, Pine Brook, N. J. Filed Apr. 11, 1952.

MEGA-X

The term or word "X" is disclaimed apart from the mark as shown.
For Instrument That Functions as a Source of Microwave Signals in Such Application as Alignment and Test of Microwave Receivers, Sensitivity Checks of Microwave Receiver, Checks of Scale Models of Antennas in the Lower Frequency Bands, Tests of Local Oscillators and Also Used as the Frequency-Modulated Local Oscillator of X-Band Spectrum Analyzers.
Claims use since during December 1949.

Ser. No. 627,949. Kay Electric Company, Pine Brook, N. J. Filed Apr. 11, 1952.

RADA-PULSER

The term "Pulser" is hereby disclaimed apart from the mark as shown.
For Instrument for Producing Pulse Widths of .1 to .25 Micro Seconds for Measuring Transient Responses of Military and Commercial Receiver and System Using Carrier Frequencies of 30 to 60 Mega-Cycles and Other Uses.
Claims use since January 1952.

Ser. No. 627,951. Kay Electric Company, Pine Brook, N. J. Filed Apr. 11, 1952.

SONA-SWEEP

The word "Sweep" is disclaimed apart from the mark as shown.
For Instrument That Is a Narrow-Band Sweeping Oscillator for Use With an Oscilloscope in Defining the Pass Band Characteristics of Amplifiers and Filters by Providing a Narrow Frequency Sweep Which Can Be Centered at Frequencies From 10 to 200 Kilocycles and Develops Marker Pips Which Are Independent of the Amplifier Circuits Under Test and Other Uses.
Claims use since July 1951.

Ser. No. 632,100. Radiant Manufacturing Corporation, Chicago, Ill. Filed July 2, 1952.

permawhite

The word "White" is disclaimed apart from the mark as shown.
For Glass Beaded Fabrics, Used in Cut Sizes as Motion Picture Projection Screens, and Also Sold in the Form of Rolls Subsequently To Be Cut to Size for Use in the Manufacture of Motion Picture Projection Screens.
Claims use since on or about June 4, 1952.

Ser. No. 641,963. Peridome, Ltd., New York, N. Y. Filed Feb. 9, 1953.

PERIDOME

For Optical Instrument Consisting of a Convex Reflector Mirror Lens, Coupled With a Double Convex Low Powered Lens and a Mirror View Plate Which Provides an Undistorted View of 360 Degrees in the Horisontal Plane and 240 Degrees in the Vertical Plane, Either Through Direct View or as an Elbow Telescope, the View Including the Entire Meridian, for Use Upon Vehicles of All Kinds, Including, But Not Limited to, Airplanes, Automobiles, Buses, Trucks, Tank Cars, Railroads, Tanks, Ships, Airport Towers, Submarines, Traffic Towers, and All Public Viewing.
Claims use since Sept. 15, 1952.

## CLASS 27

## HOROLOGICAL INSTRUMENTS

Ser. No. 620,210. Hamilton Watch Company, Lancaster, Pa. Filed Oct. 19, 1951. (Sec. 2f.)

ILLINOIS

For Watches.
Claims use since March 1872.

Ser. No. 636,990. Michaels & Co., Inc., Brooklyn, N. Y. Filed Oct. 22, 1952.

MICO

For Horological Instruments—Namely, Watches and Parts Thereof; Clocks and Parts Thereof; Watch Springs; and Watch Cases.
Claims use since Sept. 6, 1952.

Ser. No. 637,502. Products Exchange Company, Inc., New York, N. Y. Filed Nov. 1, 1952.

BLESSING

A disclaimer is hereby made of the representation of a watch wheel apart from the mark as shown.
For Horological Instruments, and More Specifically Watches and Clocks.
Claims use since July 1, 1952.

## CLASS 29

## BROOMS, BRUSHES, AND DUSTERS

Ser. No. 610,691. John R. Hunneman, Jr., doing business under the name of Whattaspout Mfg. Co., Woburn, Mass. Filed Mar. 1, 1951.

WHATTASPOUT

For Combined Toothbrush and Water-Deflecting Recessed Handle Which May Be Used as an Aid in Drinking From a Stream of Water.
Claims use since Nov. 1, 1950.

Ser. No. 637,776. Industrial Wiping Cloth Co., Inc., Long Island City, N. Y. Filed Nov. 7, 1952.

IWC

For Industrial Wiping Cloths.
Claims use since Jan. 1, 1949.

## CLASS 30

### CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 624,583. Ardalt Inc., New York, N. Y. Filed Feb. 6, 1952.

BROCATO

For Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain.
Claims use since December 1951.

Ser. No. 624,584. Ardalt Inc., New York, N. Y. Filed Feb. 6, 1952.

DALISO LUSTRO

For Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain.
Claims use since December 1951.

Ser. No. 624,585. Ardalt Inc., New York, N. Y. Filed Feb. 6, 1952.

EGITANTICO

For Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain.
Claims use since December 1951.

Ser. No. 624,586. Ardalt Inc., New York, N. Y. Filed Feb. 6, 1952.

ORO-NERO

For Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain.
Claims use since Oct. 10, 1950.

Ser. No. 624,587. Ardalt Inc., New York, N .Y. Filed Feb. 6, 1952.

PROFILO

For Porcelain Vases; Chinaware—Namely, Flower Pots and Boxes, Dishes, Jars, Candy Boxes, All Made From Earthenware or Porcelain.
Claims use since December 1951.

Ser. No. 635,231. National Silver Company, New York, N. Y. Filed Sept. 13, 1952.

BERKSHIRE Viceroy china

Applicant disclaims exclusive right to use of the words "Berkshire" and "China" apart from the mark as shown on the drawing. Applicant claims ownership of Registrations Nos. 390,992 and 392,860.
For China Dinnerware.
Claims use since July 22, 1952.

Ser. No. 642,366. Palmeter's Limited, Kentville, Nova Scotia, Canada. Filed Feb. 17, 1953.

"Evangeline's Acadian Gardens"

Priority under Sec. 44(d). Canadian application filed Aug. 20, 1952; Registration No. N. S. 168/42907, dated Aug. 20, 1952.
For China Tableware.

## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 622,834. Luber-Finer Incorporated, Los Angeles, Calif. Filed Dec. 26, 1951.

EN-FLO

Applicant hereby disclaims the word "Flo" apart from the mark as shown.
For Replaceable Filter Elements for Internal Combustion Engine Oil Filters.
Claims use since Dec. 6, 1951.

Ser. No. 625,460. Coldin Cabinet Company, Inc., New York, N. Y. Filed Feb. 25, 1952. (Sec. 2f.)

Coldin

For Frozen Food Cabinets, Refrigerating Dairy Wall Cases, Refrigerating Full Vision Display Cases, Refrigerating Formica Top Counter High Display Cases, Refrigerating Meat and Delicatessen Display Cases, and Refrigerating Display Counters.
Claims use since October 1945.

Ser. No. 625,461. Coldin Cabinet Company, Inc., New York, N. Y. Filed Feb. 25, 1952. (Sec. 2f.)

Coldin

For Frozen Food Cabinets, Refrigerating Dairy Wall Cases, Refrigerating Full Vision Display Cases, Refrigerating Formica Top Counter High Display Cases, Refrigerating Meat and Delicatessen Display Cases, and Refrigerating Display Counters.
Claims use since October 1945.



Ser. No. 633,775. Leonards, Fort Worth, Tex. Filed Aug. 12, 1952.

LENCO

For Refrigerators and Freezers.
Claims use since Jan. 15, 1952.

Ser. No. 638,564. Anthracite Equipment Corporation, Wilkes-Barre, Pa. Filed Nov. 25, 1952.

AnthraAid

The drawing is lined for the color red. The word "Aid" is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 299,526.
For Carbonaceous Powder Used To Assist in Filtering Through a Felted, Woven or Rigid Porous Filter Medium.
Claims use since on or about Oct. 14, 1952.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 570,974. Lyon Metal Products, Incorporated, Aurora, Ill. Filed Dec. 22, 1948. (Sec. 2f as to "Lyon.")

Another LYON METAL PRODUCT

The drawing is lined for red. The words "Another Metal Product" are disclaimed apart from the mark as shown.
For Storage Lockers; Parts of and Accessories for Storage Lockers—Namely, Closed Bases, Benches, Sloping Tops, and Stops To Prevent Articles From Rolling Out; Storage Locker and Open Clothing Storage Rack Combinations; Metal Cases With Drawers for Storing Small Parts, and Dividers for Such Drawers; Tool Storage and Display Stands With and Without Drawers; Parts of Tool Storage and Display Stands—Namely, Trays; Storage, Display, Supporting and Protective Cabinets for Supporting and Enclosing Various Devices; Shelving Units; Parts of and Accessories for Shelving Units—Namely, Tool Storage and Display Units With Multiple Compartments for Insertion in Metal Shelving, Tire Supporting Bars, Drawer Units, Shelf Separators, Drawer Trays, Sliding Doors, Bin Doors, Rack End Uprights, Upright Cross Braces, Shelf End Supports, Floor Plates, Shelves, Top Plates, Top Finishing Ends, Backs, Base Strips, Bin Dividers, Bin Fronts, Bin Boards and Shelf Box Dividers; Display and Storage Racks; Parts of Display and Storage Racks—Namely, Arms, Shelves, and Uprights Carrying Supporting Arms; Storage and Filing Cabinets; Accessories for Storage and Filing Cabinets—Namely, Bases and Steel File Dividers; Sorting Files; Work and Display Tables; Accessories for Work and Display Tables—Namely, Lockers and Glass Bin Tops With Riser Providing Compartments for Open Display; Folding Chairs; Accessories for Folding Chairs—Namely, Tablet Arms; Work Stools; Parts of Work Stools—Namely, Steel Backs and Pressed Wood Seats; Desks; Work and Service Counters; Parts of Work and Service Counters—Namely, Waste Bins and Back Ends; Display Stands; Tiered Stands for Storing and Displaying Small Items; Storage and Display Units Having a Plurality of Bins Arranged in Rows and Tiers; Bin Type Storage and Display Shelving Cases; Removable Wood Blocks With Handles Which Are in the Nature of Shelves and Used as Inserts in Metal Shelving for Storage and Display of Tools and Other Items; Cabinet Benches and Tables for School, Office, Store, Factory, and Workshop Use; Parts of Such Cabinet Benches and Tables—Namely, Steel Tops and Legs; Accessories for Such Cabinet Benches and Tables—Namely, Back and End Stops, Drawers, Risers, Attachment Blocks, Shelves, and Stringers; and Wardrobes.
Claims use since Nov. 27, 1945, on the mark as shown; and since Dec. 1, 1913, on the word "Lyon."

Ser. No. 631,627. Morganton Furniture Company, Morganton, N. C. Filed June 23, 1952. (Sec. 2f.)

Morganton

Applicant claims ownership of Registration No. 507,484.
For Dining Room Furniture—Namely, Buffets, Chinas, Breakfronts, Utility Cabinets, Tables, Chests, Corner Cabinets, and Slip Seat Wooden Chairs; and Bedroom Furniture—Namely, Beds, Dressers, Vanities, Dressing Tables, Chests, High Boys, Night Stands, and Benches.
Claims use since Apr. 1, 1947.

Ser. No. 633,634. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 8, 1952.

Serta

Applicant claims ownership of Registration No. 370,996.
For Mattresses.
Claims use since Aug. 10, 1938.

Ser. No. 633,635. Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Filed Aug. 8, 1952.

Serta

Applicant claims ownership of Registration No. 370,996.
For Mattresses.
Claims use since Aug. 10, 1938.

## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 598,934. D. Swarovski Glasfabrik und Tyrolit-Schleifmittel-Werke, Wattens, Tirol, Austria. Filed June 10, 1950.

SWAREFLEX

Priority is claimed under Sec. 44(d). Austrian application filed Dec. 16, 1949; Registration No. 16,311, dated Jan. 16, 1950. The drawing is lined for red.

For Light Reflectors Adapted for Use in Signalling, Warning, and Advertising Devices.

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Ser. No. 642,995. Rheem Manufacturing Company, Richmond, Calif. Filed Mar. 2, 1953.

**COPPERMATIC**

For Gas Water Heaters.
Claims use since May 1952.

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## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 627,258. Estey Piano Corp., Bluffton, Ind. Filed Mar. 29, 1952. (Sec. 2f.)

**MALCOLM LOVE**

"Malcolm Love" is not known by applicant to be the name of any particular individual.

For Pianos.
Claims use since March 1929.

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Ser. No. 634,012. Joseph Williams Limited, London, England. Filed Aug. 15, 1952.

VIOLINDA

Applicant claims ownership of British Registration No. 560,969, dated June 20, 1935.

For Type of Violin for Use of Children Learning To Play the Violin.

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## CLASS 37

### PAPER AND STATIONERY

Ser. No. 621,475. Marcalus Manufacturing Co. Inc., East Paterson, N. J. Filed Nov. 20, 1951. (Sec. 2f.)

Swankey Hankies

The term "Hankies" is disclaimed apart from the mark shown. Applicant claims ownership of Registration No. 420,461.

For Paper Tissue Handkerchiefs.
Claims use since on or about Oct. 30, 1944.

Ser. No. 625,429. Walter A. McCabe, doing business as Walter A. McCabe Company, East Haddam, Conn. Filed Feb. 23, 1952.

("GIFTATES")

For Transparent Plastic Covers for Photographic Prints.
Claims use since Feb. 5, 1952.

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Ser. No. 626,807. Mallard Pencil Co. Inc., Georgetown, Ky. Filed Mar. 21, 1952.

**PENSI RULER**

The word "Ruler" is disclaimed apart from the mark.
For Wood Cased Lead Pencils.
Claims use since Mar. 4, 1952.

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Ser. No. 632,801. South-Western Publishing Co., Cincinnati, Ohio. Filed July 19, 1952.

20th Century

For Work-Books—Namely, Partially Printed Student Testing and Practice Publications.
Claims use since May 1904.

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## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 627,900. John F. Rider Publisher, Inc., New York, N. Y. Filed Apr. 10, 1952.

**TEK-FILE**

For Technical Manuals and Replacement and Insert Parts Therefor, Published From Time to Time.
Claims use since Dec. 10, 1951.

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Ser. No. 630,256. George Baker, Beverly Hills, Calif. Filed May 26, 1952.

SAD SACK

Applicant claims ownership of Registration No. 428,865.
For Magazine Published Periodically.
Claims use since Jan. 2, 1948.

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Ser. No. 630,593. Frozen Food Age Publishing Co., Inc., New York, N. Y. Filed June 2, 1952.

**FROZEN FOOD AGE**

The drawing is lined for blue. The words "Frozen Food" are disclaimed apart from the mark as shown.

For Monthly Publications—Namely, Magazines and Newsletters.
Claims use since Mar. 1, 1952.



Ser. No. 633,376. The Prairie Farmer Publishing Company, Chicago, Ill. Filed Aug. 1, 1952. (Sec. 2f.)

*This Business of*
**FARMING**

For Department or Section of a Periodical Publication.
Claims use since Aug. 7, 1943.

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Ser. No. 639,875. Buddie P. Drake, South Bend, Ind. Filed Dec. 22, 1952.

Car-tel

For Automobile Road Maps With Symbols Designating the Location of Business Establishments Catering to Tourists, Whose Advertisements Appear Upon the Publication and Are Referred to by Key Numbers Upon the Map.
Claims use since Nov. 25, 1952.

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Ser. No. 640,349. Meredith Publishing Company, Des Moines, Iowa. Filed Jan. 5, 1953.

**The Family Car**

The word "Car" is disclaimed apart from the mark.
For Magazine Section in a Periodic Publication.
Claims use since August 1951.

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Ser. No. 641,093. Scholastic Corporation, New York, N. Y. Filed Jan. 21, 1953.

NewsTime

For Weekly Scholastic Periodical for Young Students.
Claims use since Jan. 7, 1953.

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Ser. No. 642,203. Denni Hlasatel Printing & Publishing Co., Inc., Chicago, Ill. Filed Feb. 13, 1953.

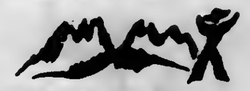



The translation of "Kruh Pratel Ceskoslovenske Knihy" is "Circle of Friends of Czechoslovakian Books." Applicant disclaims exclusive right to the representation of the book per se and to the words "Ceskoslovenske Knihy" apart from the mark shown.

For Series of Books, Published Periodically and Pertaining to Various Subjects.
Claims use since Feb. 6, 1953.



Ser. No. 643,229. Hill and Range Songs, Inc., Beverly Hills, Calif. Filed Mar. 6, 1953.



For Published Musical Compositions.
Claims use since Apr. 1, 1945.

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Ser. No. 643,257. Lawrence H. Smith, Washington, D. C. Filed Mar. 13, 1953. (Sec. 2f.)

THE MILL AT WASHINGTON

For Newsletter.
Claims use since Oct. 21, 1941.

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Ser. No. 644,106. Fairchild Publications, Inc., New York, N. Y. Filed Mar. 24, 1953.

**Girdling the Market**

For Newspaper Column or Columns.
Claims use since Sept. 21, 1939.

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## CLASS 39

### CLOTHING

Ser. No. 616,915. Manuel M. Linn, doing business as Clementon Hosiery Mill, Clementon, N. J. Filed July 25, 1951.

SILKESS NYLONS

No claim is made to the word "Nylons," apart from the mark shown in the drawing.

For Ladies' Nylon Hosiery.
Claims use since Dec. 10, 1949.

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Ser. No. 621,266. Hughes and Hatcher, Inc., Detroit, Mich. Filed Nov. 15, 1951.

3-in-1 suit

The word "Suit" is disclaimed apart from the mark as shown.

For Men's Assorted Coats and Pants.
Claims use since December 1939.

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Ser. No. 630,910. Playnurse, Inc., Baltimore, Md. Filed June 7, 1952.

PLAY NURSE

No claim to the word "Nurse" is made apart from the mark as shown. The pictorial representation is fanciful and is in no way intended to represent the portrait of any particular individual.

For Children's Suits and Dresses.
Claims use since Apr. 22, 1952.

Ser. No. 640,034. Brookville Glove Company, Brookville, Pa. Filed Dec. 26, 1952.

Soft Touch

Applicant waives exclusive right to use of the word "Soft" apart from the mark as shown.

For Household and Garden Gloves Made From Vinyl Impregnated and Vinyl Coated Cotton Fabric.

Claims use since on or about Mar. 14, 1952.

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Ser. No. 641,318. Milliway Knitting Mills, Inc., Milliway, Pa. Filed Jan. 26, 1953.

Loc-tite

The drawing is lined for the color red.

For Ladies' Hosiery.

Claims use since on or about Jan. 12, 1953.

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Ser. No. 642,803. Chevette, Inc., New York, N. Y. Filed Feb. 26, 1953.

Chev-Sheen

The word "Sheen" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 411,586.

For Ladies' and Misses' Underwear—Namely, Nightgowns, Robes, Bed Jackets, Panties, Negligees, and Slips.

Claims use since Dec. 24, 1951.

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Ser. No. 644,205. Wundies, Inc., Williamsport, Pa. Filed Mar. 25, 1953.

Wundies

For Children's and Girls' Slips, Panties, Robes, Dusters, and Sleepwear—Namely, Gowns and Pyjamas.

Claims use since Mar. 13, 1953.

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## CLASS 40

### FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 610,564. Koh-I-Noor, Spojene Kovoprumyslove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Filed Feb. 27, 1951.

Classic

Applicant claims ownership of Czechoslovakian Registration No. 16,270, dated Apr. 4, 1921.

For Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Buckles, Hook and Eye Fasteners, Shoe Rings; Crochet Hooks and Crochet Needles; Hand Knitting and Netting Needles; Mending and Darning Needles; Needles for Hand-Sewing; Bodkins; Thimbles; Combs; Collar Studs; Pins and Clips Made From Non-Precious Metals—Namely, Safety Pins, Hair Pins, Scarf Pins, Bobby Pins, Barretts, and Hair Grips.

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Ser. No. 627,996. Anthony J. Ciroli, doing business as Yankee Homecrafts, Medford, Mass. Filed Apr. 12, 1952.

Knit-wit

Applicant disclaims the word "Knit" apart from the mark as shown on the drawing.

For Art Needlework Device—Namely, a Plastic Hand Weaving Tool for Forming Rosettes To Be Joined in Making Bedspreads, Doilies, Table Runners, Articles of Clothing, Etc.

Claims use since Mar. 14, 1951.

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## CLASS 41

### CANES, PARASOLS, AND UMBRELLAS

Ser. No. 639,505. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

For Umbrellas, Parasols, and Canes.

Claims use since 1867.

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## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 613,426. Morris Schwartz & Sons, Inc., New York, N. Y. Filed May 2, 1951.

SWAYVELLE

For Woven Textile Fabrics Made of Wool, Synthetic Fibers, and Combinations of Same.

Claims use since on or about Mar. 19, 1951.

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Ser. No. 631,227. Temp Resisto Corporation, New York, N. Y. Filed June 14, 1952.

INSULYNE

For Insulating Textile Fabric of Synthetic Fibres To Be Used as Linings for Garments.

Claims use since May 15, 1952.



Ser. No. 631,907. Philip Wick Company, Inc., New York, N. Y. Filed May 29, 1952.




For Acetate, Rayon, Nylon, Cotton, and Elastic Nettings, Sold in the Piece.

Claims use since Feb. 24, 1947.

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Ser. No. 631,908. Philip Wick Company, Inc., New York, N. Y. Filed May 29, 1952.




For Acetate, Rayon, Nylon, Cotton, and Elastic Nettings, Sold in the Piece.

Claims use since Feb. 24, 1947.

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Ser. No. 639,506. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

Stern Brothers

Applicant claims ownership of Registration No. 272,528.

For Bath Towels, Bath Mats, Dish Towels, Wash Cloths, Doilies, Bed Sheets, Bed Spreads, Blankets, Textile, Braided, and Looped Carpets, and Rugs, Table Cloths, Window Curtains, Shower Curtains, Draperies, Cotton, Linen, Rayon, and Woolen Fabrics in the Piece, Pillow Cases, and Auto Robes.

Claims use since 1867.

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Ser. No. 642,157. Naumkeag Steam Cotton Company, Salem, Mass. Filed Feb. 12, 1953.

POTOMAC

Applicant claims ownership of Registration No. 143,860.

For Sheets and Pillow Cases.

Claims use since 1902.

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Ser. No. 643,544. D. B. Fuller & Co. Inc., New York, N. Y. Filed Mar. 12, 1953.

GAMECOCK PRINTS

The word "Prints" is disclaimed apart from the mark as shown on the drawing.

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.

Claims use since Feb. 4, 1952.

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Ser. No. 643,545. D. B. Fuller & Co. Inc., New York, N. Y. Filed Mar. 12, 1953.

WAVESHEER

Applicant claims ownership of Registrations Nos. 570,733 and 570,734.

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.

Claims use since Jan. 14, 1952.

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Ser. No. 643,583. De Witt Carpets, Inc., New York, N. Y. Filed Mar. 13, 1953.

GRANITWIST

For Wool and Wool and Rayon Twist Velvet Carpet.

Claims use since on or about Jan. 12, 1953.

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Ser. No. 643,618. H. M. Smyth and Company Limited, Belfast, Northern Ireland. Filed Mar. 13, 1953.

BENMOYLE

Applicant claims ownership of British Registration No. 706,716, dated Apr. 26, 1952.

For Textile Piece Goods of Linen, Cotton or Rayon and Admixtures in Which Linen, Cotton or Rayon Predominate.

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## CLASS 43

### THREAD AND YARN

Ser. No. 632,652. Kurashiki Rayon Company Limited, Kurashiki, Japan. Filed July 3, 1952.

KURALON

Applicant claims ownership of Japanese Registration No. 397,366, dated Mar. 14, 1951.

For Synthetic Yarns and Filaments, Especially Spun Yarns and Filaments Made of Polyvinyl Alcohol.

Claims use since 1951.

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Ser. No. 635,962. Glanzstoff-Courtaulds G. m. b. H., Koln-Merheim, Germany. Filed Sept. 30, 1952.

For Yarns.

Colva

Claims use since Jan. 2, 1942; and first used in commerce between Germany and the United States on July 7, 1950.

Ser. No. 643,652. Coats & Clark Inc., New York, N. Y. Filed Mar. 16, 1953.

WOLF

Applicant claims ownership of Registration No. 84,758.
For Thread.
Claims use since on or about Oct. 13, 1910.

Ser. No. 643,653. Coats & Clark Inc., New York, N. Y. Filed Mar. 16, 1953.

ANVIL

Applicant claims ownership of Registration No. 84,759.
For Thread.
Claims use since on or about Sept. 29, 1910.

Ser. No. 643,654. Coats & Clark Inc., New York, N. Y. Filed Mar. 16, 1953.

HAMMER

Applicant claims ownership of Registration No. 125,031.
For Thread.
Claims use since on or about July 31, 1918.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 629,645. American Hygienic Co., Washington, D. C. Filed May 14, 1952.




The word "De Luxe" contained in the mark is disclaimed.
For Prophylactic Articles for Prevention of Contagious Diseases.
Claims use since June 1, 1936.

Ser. No. 630,241. Transograph, Incorporated, Minneapolis, Minn. Filed May 24, 1952.

TRANSOGRAPH

For Jaw Recorder and Duplicator Used for Reproducing and Correcting With Models Articulation of the Human Jaws and of Recording and Automatically Reproducing in Three Dimensions Simultaneously the Kinematic and Static Relationships of the Upper and Lower Jaws and Teeth.
Claims use since Jan. 25, 1952.

Ser. No. 630,602. Lurline Products Company, Woodmere, N. Y. Filed June 2, 1952.

LURLINE

For Hypodermic Syringes.
Claims use since Mar. 6, 1952.

Ser. No. 632,637. Travenol Laboratories, Inc., Morton Grove, Ill. Filed July 16, 1952.

Piromen

Applicant claims ownership of Registration No. 505,234.
For Containers for Containment and Dispensation of Parenteral Fluids, and Tubes Equipped With Needles and Needle Adapters for the Administration of Parenteral Fluids.
Claims use since Sept. 11, 1947.

## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Ser. No. 607,086. Lyons-Magnus, Inc., San Francisco, Calif. Filed Nov. 29, 1950.

BE HAPPY

For Root Beer Syrup for Making Carbonated Beverages and Bottled Root Beer.
Claims use since Aug. 12, 1946.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 561,736. Eddy Bakeries, Inc., Helena, Mont. Filed July 20, 1948.




No claim is made to the word "Bread" or to the representation of the loaf of bread apart from the mark as shown in the drawing. The representation of the male figure is fanciful. Applicant claims ownership of Registration No. 318,102.
For Bread.
Claims use since Nov. 3, 1947.



Ser. No. 596,899. Companhia Industrial de Conservas Alimenticias "Cica," Sao Paulo, Brasil. Filed May 5, 1950.

RAMY

The mark "Ramy" has no known meaning. Applicant claims ownership of Brazilian Registration No. 119,613, dated June 15, 1945.
For Candies, Prepared Edible Chocolate, Cocoa, Alimentary Pastes, Dog Food, Cat Food, Poultry Food, Canned Fruits, Preserved Fruits, Dried Fruits, Canned Vegetables, Preserved Vegetables, Food Colors, Vegetable Flavoring Essences for Use as Condiments and in the Preparation of Food, Mustard, Vinegar, Fresh, Canned, and Preserved Beef, Pork, and Poultry, Preserved and Canned Fish, Tomato Paste, Cinnamon, Clove, Salt, Pepper, Anise, Cheese, Butter, Coffee, Tea, Fruit Juices for Alimentary Purposes.

Ser. No. 598,571. The Butereg Company, Inc., Pampa, Tex., and Kansas City, Mo. Filed June 5, 1950. (Sec. 2f.) CERTIFICATION MARK.

BUTEREG

Applicant claims ownership of Registrations Nos. 299,838, 317,658, and others.
For Bread.
Claims use since 1932.

Ser. No. 610,946. Angel Camacho Alarcon, Moron de la Frontera (Sevilla), Spain. Filed Mar. 7, 1951.




"Bulerias" is the name of a Spanish-Andalusian national dance. Applicant claims ownership of Spanish Registration No. 222,663, dated Oct. 19, 1949.
For Olive Oil.

Ser. No. 635,483. The Maryland Baking Company, Baltimore, Md. Filed Sept. 19, 1952.

U-WINA CONE

The word "Cone" is disclaimed apart from the mark as shown.
For Ice Cream Cones.
Claims use since on or about June 1, 1940.

Ser. No. 637,043. Helen Dove, Martha's Vineyard, Mass. Filed Oct. 23, 1952.

M V C

*Martha's Vineyard Crisp*

A disclaimer of the geographically descriptive words "Martha's Vineyard" and the descriptive word "Crisp" is hereby made.
For Appetizer Hors d'Oeuvre Consisting of Portugese Bread, Garlic, and Seasoning.
Claims use since Aug. 5, 1952.

Ser. No. 640,356. Family Flour Institute, Inc., Nashville, Tenn. Filed Jan. 9, 1953. COLLECTIVE MARK.




Applicant claims ownership of Registration No. 419,343.
For Self-Rising Corn Meal and Self-Rising Corn Meal Mix Composed Principally of Corn Meal and Wheat Flour.
Claims use since June 1949.

## CLASS 47

### WINES

Ser. No. 628,224. Schenley Import Corporation, New York, N. Y. Filed Apr. 17, 1952.




The portrait shown in the drawing is fanciful. The lining and stippling shown on the drawing are for shading purposes only. All wording shown on the drawing is disclaimed apart from the mark shown.
For Wines.
Claims use since Oct. 5, 1949.

Ser. No. 641,695. Schenley Industries, Inc., also doing business as Roma Wine Company, doing business as Triangle Vineyards, New York, N. Y. Filed Feb. 3, 1953.

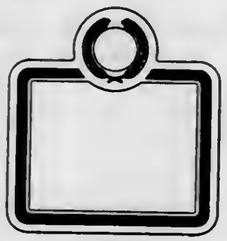
GARDEN DE LUXE

No claim is made to the word "De Luxe" apart from the mark shown in the drawing. Applicant claims ownership of Registration No. 404,502.
For Wines.
Claims use since May 19, 1943.

## CLASS 48

### MALT BEVERAGES AND LIQUORS

Ser. No. 643,213. Fox Head Brewing Co., Waukesha, Wis. Filed Mar. 6, 1953.



For Beer.
Claims use since July 1947.

## CLASS 49

### DISTILLED ALCOHOLIC LIQUORS

Ser. No. 640,110. The Drambuie Liqueur Co. Ltd., Edinburgh, Scotland. Filed Dec. 29, 1952.

DRAMBUIE

Applicant claims ownership of Registrations Nos. 303,089, 532,671, and others.
For Distilled Alcoholic Liqueur.
Claims use since as early as September 1907.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Ser. No. 620,803. Clairol Incorporated, Stamford, Conn. Filed Nov. 2, 1951.




The background of the drawing is lined for red. Applicant disclaims the red background indicated on the drawing except in association with the mark as shown. Applicant claims ownership of Registrations Nos. 302,399, 354,067, and others.
For Hair Lightening Preparations.
Claims use since Aug. 31, 1951.

Ser. No. 628,125. The Realistic Company, Cincinnati, Ohio. Filed Apr. 15, 1952.

TREND

For Preparation for Use in Hair Waving.
Claims use since February 1939.

Ser. No. 638,008. M. M. Mikulas, doing business under the name of Mylans, San Francisco, Calif. Filed Nov. 13, 1952.

OF
MYN

For Hair Oil, an All Purpose Skin Cream, Toilet Water, Skin Lotion, Perfume, Cleansing Cream, After-Shave Lotion, and Cologne.
Claims use since July 1945.

Ser. No. 638,419. Houbigant, Inc., doing business as Houbigant, New York, N. Y. Filed Nov. 21, 1952.

PENNY MERRILL

The name "Penny Merrill" is purely fanciful.
For Perfume, Toilet Water, Lipstick, Rouge, Face Powder, and Skin Creams.
Claims use since February 1945.

Ser. No. 642,673. Lucky Tiger Manufacturing Co., Kansas City, Mo. Filed Feb. 24, 1953.

LANOLIN F-6

"Lanolin" is disclaimed apart from the mark shown in the drawing.
For Hair Dressing and Conditioner.
Claims use since Feb. 2, 1953.

## CLASS 52

### DETERGENTS AND SOAPS

Ser. No. 607,948. The Fry Brothers Co., Cincinnati, Ohio. Filed Dec. 21, 1950.

COLORLUME

For Chemical Compounds for Dry Cleaning.
Claims use since June 1950.

Ser. No. 624,647. The Hewitt Soap Company, Inc., Dayton, Ohio. Filed Feb. 7, 1952.

Our Own

For Sudsing Cleaner, Cleanser, and Detergent.
Claims use since Dec. 19, 1951.



Ser. No. 628,130. Rubye B. Shelton, doing business under the name of Allito Mfg. Co., Houston, Tex. Filed Apr. 15, 1952.

Rubye
PRODUCTS

No claim is made to the word "Products" apart from the mark shown in the drawing.
For Coconut Oil Detergent Shampoo.
Claims use since Mar. 15, 1951.

Ser. No. 632,826. Central Chemical Company, Kansas City, Mo. Filed July 21, 1952.

Surgi-Cen

For Surgical Soap Having Bacteriostatic Properties.
Claims use since Jan. 1, 1951.

Ser. No. 636,989. Lumin Sales Corporation, New York, N. Y. Filed Oct. 22, 1952.

LUMIN

For Cleaner in Liquid Form for Cleaning Metal Surfaces and a Wash in Liquid Form for Cleaning Metal, Lacquered, and Painted Surfaces.
Claims use since on or about Sept. 1, 1950.

Ser. No. 638,151. National Cleanser Products Co., Inc., New York, N. Y., assignor to Charles Herman, doing business as "J" Chemical Works, New York, N. Y. Filed Nov. 15, 1952.

SUPER
MAFOS

The word "Super" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 318,483.
For Alkali Cleanser in Briquet Form, for Use in Dish Washing Machines and for Cleaning and Washing Machinery, Bottles, Milk Cans, and Utensils in the Food, Beverage, and Dairy Industries.
Claims use since Jan. 3, 1942.

Ser. No. 638,152. National Cleanser Products Co., Inc., New York, N. Y., assignor to Charles Herman, doing business as "J" Chemical Works, New York, N. Y. Filed Nov. 15, 1952.

SUPER
NUFOS

The word "Super" is disclaimed apart from the mark as shown on the drawing. Applicant claims ownership of Registration No. 350,511.
For Alkali Cleanser in Briquet Form, for Use in Dish Washing Machines and for Cleaning and Washing Machinery, Bottles, Milk Cans, and Utensils in the Food, Beverage, and Dairy Industries.
Claims use since Jan. 3, 1942.

# SERVICE MARKS

## CLASS 100

### MISCELLANEOUS

Ser. No. 607,295. Nuclear Development Associates, Inc., White Plains, N. Y. Filed Dec. 5, 1950.

NDA

For Technical Research, Development, Design, and Consultant Services in the Fields of Analytical Engineering, Theoretical and Applied Physics, and Pure and Applied Mathematics, With Respect to Nuclear Reactors, Nuclear Physics, Nuclear Power Plants, Radar Syatems, Heat Transfer, Computing Machines, Process Industry Flow, Mineral Prospecting and Recovery, Water Conservation, Development in Steel Production, Weapons, Patents, Negative Ions, Lubrication, Bearings, and Seals.
Claims use since June 1948.

Ser. No. 636,689. Childs Company, Long Island City, N. Y. Filed Oct. 16, 1952. (Sec. 2f.)

Childs

Applicant claims ownership of Registrations Nos. 118,384, 123,203, and others.
For Restaurant, Luncheonette, and Bar Services.
Claims use since about January 1891.

## CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 627,562. R. R. Donnelley & Sons Company, Chicago, Ill. Filed Apr. 4, 1952. (Sec. 2f.)




R. R. Donnelley represents the name of Richard R. Donnelley, the founder of applicant corporation. "Chicago" is disclaimed apart from the mark shown. The lining in the drawing represents lining forming part of the mark.
Applicant claims ownership of Registration No. 519,344.
For Printing, Photoengraving, Lithographing, Type-Setting, and Rotogravure Work.
Claims use since 1926.

Ser. No. 642,053. Star Time Production Corporation, New York, N. Y. Filed Feb. 10, 1953.

**STAR TIME**

For Advertising the Goods and Services of Others Through the Medium of a Television Show.
Claims use since Dec. 8, 1951.

## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 619,780. Allen Carpet Cleaning and Rug Weaving Company, Buffalo, N. Y. Filed Oct. 10, 1951. (Sec. 2f.)

Allen's

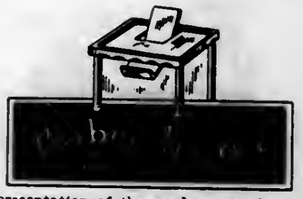
For Cleaning and Repairing of Rugs, Carpets, Draperies, Furniture, and Other Similar House Furnishings; the Installation of Rugs, Carpets, Draperies, and Other Similar House Furnishings.
Claims use since 1875.

Ser. No. 630,422. Farris C. Lind, Boise, Idaho. Filed May 28, 1952.



For Gasoline Filling Station Services—Namely, Lubrication and Washing of Motor Vehicles.
Claims use since July 1941.

Ser. No. 633,246. Babee-Tenda License Corporation, Metropolis, Ill., and Cleveland, Ohio. Filed July 26, 1952.



The representation of the goods, apart from the mark shown herein, is disclaimed. Applicant claims ownership of Registrations Nos. 370,142 and 506,986.
For Repairing Children's Furniture—Namely, Combination Chairs and Tables.
Claims use since Apr. 11, 1949.

Ser. No. 634,702. National Superior Fur Dressing & Dyeing Co., Chicago, Ill. Filed Aug. 30, 1952.

Pelterized

For Cleaning Furs, Fur Garments, and the Linings Thereof.
Claims use since June 1, 1951.

## CLASS 107

### EDUCATION AND ENTERTAINMENT

Ser. No. 592,260. Kathleen Dell School, Inc., Brookline, Mass. Filed Feb. 10, 1950.

Kathleen DELL

For Conducting Specialized Educational Courses in Airline Secretarial Instruction and Training.
Claims use since Nov. 9, 1938.

# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1905

444,786. Grease Pails or Grease Containers of Metal, Plastic Impregnated Fibre, Etc. The Fil-Rite Company, Minneapolis, Minn.
Filed July 2, 1946, Serial No. 505,026. Published Apr. 7, 1953. Class 2.

444,787. Ready Mixed Oil Paints in Liquid Form for Architectural, Industrial, and Marine Use. Dixie Paint and Varnish Company, Inc., Brunswick, Ga.
Filed Apr. 28, 1947, Serial No. 521,440. Published May 19, 1953. Class 16.

## ACT OF 1946, PRINCIPAL REGISTER

578,709. Chocolate Bars. Patterson Chocolates Limited, Toronto, Ontario, Canada.
Original filed, act of 1920, Feb. 6, 1947; amended to application under act of 1946, Principal Register, Oct. 20, 1947, Serial No. 517,088. Published May 26, 1953. Class 46.

578,710. Gas Meters and Parts of Gas Meters. American Meter Company, New York, N. Y.
Filed Sept. 9, 1947, Serial No. 533,828. Published Apr. 7, 1953. Class 26.

578,711. Gas Meters and Parts of Gas Meters. American Meter Company, New York, N. Y.
Filed Nov. 18, 1947, Serial No. 541,489. Published Apr. 7, 1953. Class 26.

578,712. Measuring Tapes. Keuffel & Esser Company, Hoboken, N. J.
Filed Jan. 2, 1948, Serial No. 545,998. Published Apr. 14, 1953. Class 26.

578,713. Sauce for Use in Flavoring Foods. Marion J. Coleman, doing business as Coleman's Hot Sauce Company, Florence, S. C.
Filed June 17, 1948, Serial No. 559,500. Published Nov. 1, 1949. Class 46.

578,714. Evaporated Milk. The Borden Company, New York, N. Y.
Filed Oct. 16, 1948, Serial No. 567,067. Published May 19, 1953. Class 46.

578,715. Electrical Equipment—Namely, Coaxial Cable; Coaxial Transmission Lines; Transmission Line Fittings, Etc. Andrew Corporation, Chicago, Ill.
Filed Oct. 23, 1948, Serial No. 567,462. Published May 19, 1953. Class 21.

578,716. Wrapping and Packaging Materials in the Form of Printed and Unprinted Sheets or Rolls, Etc. Crystal Tube Corporation, Chicago, Ill.
Filed Mar. 9, 1949, Serial No. 575,124. Published May 19, 1953. Class 37.

578,717. Automatic X-Ray Control Apparatus—Namely, a Stabiliser for the Output-Current of an X-Ray Tube. Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md.
Filed Apr. 27, 1949, Serial No. 577,833. Published May 19, 1953. Class 21.

578,718. Electrically Operated Foul Detecting and Indicating Apparatus for Bowling Alleys. American Machine and Foundry Company, New York, N. Y.
Filed May 20, 1949, Serial No. 579,160. Published May 19, 1953. Class 21.

578,719. Eyeglass and Spectacle Frames and Temple Bars Thereof. The Kono Manufacturing Company, Woodside, N. Y.
Filed July 27, 1949, Serial No. 582,566. Published Apr. 21, 1953. Class 26.

578,720. Clothing for Men, Women, Misses and Children, Etc. Best & Co. Inc., New York, N. Y.
Filed July 13, 1949, Serial No. 583,319. Published May 19, 1953. Class 39.

578,721. Industrial Safety Apparel, Particularly Thumb and Finger Guards of Rubber or Similar Material. Industrial Gloves Company, Danville, Ill.
Filed Sept. 22, 1949, Serial No. 585,169. Published Apr. 28, 1953. Class 37.

578,722. Column Appearing at Predetermined Periods in a Periodical or Trade Magazine. Elmer E. Boegli, Charleston, S. C.
Filed Oct. 25, 1949, Serial No. 586,787. Published May 19, 1953. Class 38.

578,723. Knitted Outer Wear—Namely, Sweaters Made in Whole or in Substantial Part of Wool. Tricosa, Paris, France.
Filed Dec. 8, 1949, Serial No. 589,050. Published Nov. 6, 1951. Class 39.

578,724. Accounting Boards or Board Binders for Use in Positioning and Collating Blank Forms in Accounting Systems. Accounting Forms, Inc., Chicago, Ill.
Filed Dec. 14, 1949, Serial No. 589,293. Published Apr. 28, 1953. Class 37.

578,725. Binding Cases, Deposit Ticket Files and Supplies for Same, Etc. The Globe-Wernicke Co., Norwood, Cincinnati, Ohio.
Filed Dec. 30, 1949, Serial No. 590,150. Published Apr. 7, 1953. Class 37.

578,726. Window Sills, Casings, and Trim; Door Jambs, Casings, and Trim, Baseboards, Moldings, Joint Assembly Strips, Ornamental Trims, Sheets and Panels of Plastic Material or in Major Part of Plastic Material Ready for Installation. Raymond W. Kerr, doing business as Kerrco Products, Hastings, Nebr.
Filed Jan. 24, 1950, Serial No. 591,370. Published May 12, 1953. Class 12.

578,727. Capacitor Paper, Coil Insulation Paper, and Condenser Paper. The Stevens Paper Mills, Inc., Westfield, Mass.
Filed Feb. 2, 1950, Serial No. 591,872. Published May 26, 1953. Class 21.

578,728. Spark Plugs. Leonard Spark Plug Co. Inc., Newark, N. J.
Filed Mar. 4, 1950, Serial No. 593,421. Published May 19, 1953. Class 21.

578,729. Clothes Washing Machines, Clothes Ironers, and Mechanical Clothes Driers. G. M. Gibson Corporation, Bellevue, Iowa.
Filed July 17, 1950, Serial No. 600,772. Published May 19, 1953. Class 24.

578,730. Chemical Preparations—Namely, Free Acids and Esters of p-Nitrobenzoic Acid, Etc. Aktiebolaget Bofors, Bofors, Sweden.
Priority under Sec. 44(d). Swedish application No. 67,951, filed Feb. 8, 1950.
Filed July 20, 1950, Serial No. 600,938. Published May 19, 1953. Class 46.

578,731. Window Frame Having a Transparent Section and a Louvered Section. Solar Air-Flo, Inc., Elkhart, Ind.
Filed July 20, 1950, Serial No. 600,992. Published July 22, 1952. Class 12.

578,732. Cotton Sateen Fabrics. Brown & Ackerman, Inc., New York, N. Y.
Filed July 25, 1950, Serial No. 601,196. Published May 26, 1953. Class 42.

578,733. Women's, Misses', and Children's Outer and Inner Apparel, Etc. Rose Fashions, Inc., New York, N. Y.
Filed Aug. 25, 1950, Serial No. 602,778. Published May 19, 1953. Class 39.

578,734. Photocomposing Machine for Producing Reading Matter on a Strip of Paper by the Photographic Process. Wirtz Co., Inc., Peoria, Ill., assignor to Wirtz Company, Peoria, Ill., a copartnership.
Filed Oct. 14, 1950, Serial No. 604,941. Published Dec. 23, 1952. Class 26.

578,735. Combination Cleaning and Polishing Agent for Metal Parts, Etc. Wurdack Chemical Co., St. Louis, Mo.
Filed Nov. 4, 1950, Serial No. 605,936. Published Dec. 16, 1952. Class 4.

578,736. Combined Luggage Cover and Carrying Bag. Henry L. Kotkins, doing business as Skyway Luggage Company, Seattle, Wash.
Filed Nov. 17, 1950, Serial No. 606,531. Published May 26, 1953. Class 3.

578,737. Comic Strip. Matera and Kelly, New York, N. Y.
Filed Nov. 18, 1950, Serial No. 606,622. Published May 26, 1953. Class 38.

578,738. Powdered Wax for Use as an Ironing Lubricant. R. Lally Co., Evanston, Ill.
Filed Dec. 16, 1950, Serial No. 607,757. Published Feb. 24, 1953. Class 6.

578,739. Optical View Finders and Supplementary Lenses and Kits Containing a View Finder and Supplementary Lens for Photographic Apparatus. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Jan. 27, 1951, Serial No. 609,337. Published Apr. 21, 1953. Class 26.

578,740. Edible Carbohydrates—Namely, Starches, Dextrins, Corn Syrups, Table Syrups, and Sugars, Etc. A. E. Staley Manufacturing Company, Decatur, Ill.
Filed Feb. 17, 1951, Serial No. 610,237. Published May 19, 1953. Class 46.

578,741. Ladies' and Misses' Coats, Dresses, and Suits. Seidenbach's, Tulsa, Okla.
Filed Feb. 27, 1951, Serial No. 610,588. Published May 19, 1953. Class 39.

578,742. Dairy Products—Namely, Fluid Milk, Fluid Cream, Half Cream and Half Milk, and Chocolate Flavored Drink Consisting Mainly of Milk. Knudsen Creamery Co. of California, Los Angeles, Calif.
Filed Mar. 16, 1951, Serial No. 611,432. Published May 19, 1953. Class 46.

578,743. Compilation of Bookkeeping Forms in Loose Leaf Binders, Sold Annually in Book Form. Professional Printing Company, Inc., Brooklyn, N. Y.
Filed Mar. 16, 1951, Serial No. 611,448. Published Apr. 28, 1953. Class 37.

578,744. Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials. John M. Hiss, Los Angeles, Calif.
Filed Apr. 24, 1951, Serial No. 613,071. Published May 19, 1953. Class 39.

578,745. Variable Inductors. C. G. S. Laboratories, Inc., Stamford, Conn.
Filed May 1, 1951, Serial No. 613,361. Published May 26, 1953. Class 21.

578,746. Cartoon or Comic Magazine Published Monthly or at Other Intervals. The Hearst Corporation, New York, N. Y.
Filed May 10, 1951, Serial No. 613,710. Published May 12, 1953. Class 38.

578,747. Women's Sweaters. Dalton, Inc., Cleveland, Ohio.
Filed May 28, 1951, Serial No. 614,425. Published May 5, 1953. Class 39.

578,748. Daily Publication Presenting Credit Items, New Business Leads, Notices of Sale, Notices of Chattel Mortgages, Business Changes, and Record Items, and Other Notices of Interest to Business Men. McCord Company, San Francisco, Calif.
Filed June 2, 1951, Serial No. 614,667. Published May 26, 1953. Class 38.

578,749. Electrical Apparatus—Namely, Electric Fans; Bread and Roll Toasters; Waffle Irons; Sandwich Toasters; Irons; Grills; Broilers; Food Mixers; and Dish Washers. Plymouth Wholesale Dry Goods Corporation, New York, N. Y.
Filed June 14, 1951, Serial No. 615,188. Published May 26, 1953. Class 21.

578,750. Electrical Contact or Breaker Points. Springfield Electrical Specialties, Inc., New York, N. Y.
Filed June 16, 1951, Serial No. 615,295. Published May 19, 1953. Class 21.

578,751. Volume Controls, Rheostats, Variable Resistance Devices. P. R. Mallory & Co., Inc., Indianapolis, Ind.
Filed June 18, 1951, Serial No. 615,335. Published May 26, 1953. Class 21.

578,752. Boring Mill Tools, Planer and Shaper Tools, Lathe and Turning Tools, Anti-Friction Centers, High Speed and Carbide Centers, Grinding Machine Dogs, Tool Holders. The Ready Tool Company, Bridgeport, Conn.
Filed June 19, 1951, Serial No. 615,412. Published Dec. 9, 1952. Class 23.

578,753. Writing Paper, Printing Paper, Cover Paper, Cigarette Paper in Roll and Large Sheet Form, Etc. Arthur Doniger Paper Co., Inc., New York, N. Y.
Filed July 13, 1951, Serial No. 616,414. Published Apr. 28, 1953. Class 37.

578,754. Laboratory Machine for Continuously and Automatically Feeding an Accurately Predetermined Amount of Liquid Into Glass Vials. Sidney Rosen, trading as National Instrument Company, Baltimore, Md.
Filed July 23, 1951, Serial No. 616,801. Published Apr. 21, 1953. Class 26.

578,755. Cookies. Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va.
Filed Aug. 14, 1951, Serial No. 617,687. Published May 19, 1953. Class 46.

578,756. Metal Alloys; Metal Alloy Welding Rods; and Metal Alloy Castings, Forgings, Balls, Bars, Piping Stock, Plates, Rods, Rolls, Sheets, Strips, Tube Sheets, Tubing Stock, and Wire. Union Carbide and Carbon Corporation, New York, N. Y.
Filed Sept. 26, 1951, Serial No. 619,273. Published May 19, 1953. Class 14.

578,757. Electric Motors for Sound Recording and Sound Reproduction, Electric Phonographs, Electric Record-Changers, and Electric Radio Receiving Sets. Thorens Company, New Hyde Park, N. Y.
Filed Sept. 27, 1951, Serial No. 619,317. Published Sept. 23, 1952. Class 21.

578,758. Boots, Shoes, and Slippers for Men, Women, or Children. Brevitt Shoes Limited, Leicester, England.
Filed Sept. 27, 1951, Serial No. 619,491. Published May 19, 1953. Class 39.

578,759. Women's and Men's Suits and Coats. Manchester Modes, Inc., Manchester, Conn.
Filed Oct. 9, 1951, Serial No. 619,763. Published May 19, 1953. Class 39.



578,760. Boots, Shoes, and Slippers for Men, Women, or Children. Brevitt Shoes Limited, Leicester, England.
Filed Oct. 10, 1951, Serial No. 619,799. Published May 19, 1953. Class 39.

578,761. Periodical Publications. George Ladislas Layton, doing business under the trading style of M. L. & G. L. Layton, London, England, assignor to Continental and Overseas Organisation Limited, London, England, a British company.
Filed Oct. 10, 1951, Serial No. 619,840. Published May 26, 1953. Class 38.

578,762. Automatic Laundry Washing Machines. Horton Manufacturing Company, Fort Wayne, Ind.
Filed Oct. 13, 1951, Serial No. 619,969. Published Apr. 14, 1953. Class 24.

578,763. Automatic Laundry Washing Machines. Horton Manufacturing Company, Fort Wayne, Ind.
Filed Oct. 13, 1951, Serial No. 619,970. Published Apr. 14, 1953. Class 24.

578,764. Automatic Laundry Washing Machines. Horton Manufacturing Company, Fort Wayne, Ind.
Filed Oct. 13, 1951, Serial No. 619,971. Published Apr. 14, 1953. Class 24.

578,765. Electric Range Units and Immersion Heaters, and Parts Thereof. Edwin L. Wiegand Company, Pittsburgh, Pa.
Filed Aug. 21, 1951, Serial No. 620,385. Published May 19, 1953. Class 21.

578,766. Ladies' Shoes and Slippers. Wilbar's, Inc., Boston, Mass.
Filed Nov. 16, 1951, Serial No. 621,348. Published May 19, 1953. Class 39.

578,767. Women's and Children's Shoes and Moccasins. Linda Jo Shoe Co., Inc., Dallas, Tex.
Filed Nov. 26, 1951, Serial No. 621,674. Published May 19, 1953. Class 39.

578,768. Leather Shoes for Infants, Children, Misses, and Boys. Clement & Ball Shoe Mfg. Co., Inc., of Baltimore City, Baltimore, Md.
Filed Nov. 28, 1951, Serial No. 621,753. Published May 19, 1953. Class 39.

578,769. Corsets, Girdles, Knitted Step-Ins, Brassières, Bandeaux, Corselette Combinations, and Garter Belts. Blair Corset Company, Inc., Chicago, Ill.
Filed Nov. 29, 1951, Serial No. 621,810. Published May 26, 1953. Class 39.

578,770. Leather Shoes for Men, Women, and Misses. Wayne Shoe Company, Boston, Mass.
Filed Nov. 30, 1951, Serial No. 621,928. Published May 19, 1953. Class 39.

578,771. Conditioning Agent for Enhancing the Binding or Emulsifying Quality of Meat, Etc. Chemische Werke Albert, Wiesbaden-Kastel (Amöneburg), Germany.
Filed Oct. 24, 1951, Serial No. 622,052. Published May 19, 1953. Class 46.

578,772. Men's and Boys', Ladies' and Children's Dungarees, Pants, Blue Jeans, and Overalls. Big Jack Manufacturing Company, Inc., Bristol, Va.
Filed Dec. 10, 1951, Serial No. 622,293. Published May 19, 1953. Class 39.

578,773. Plastic Film Goods—Namely, Window Curtains, Cottage Curtain Sets, Etc. Plastic Film Products Corporation, Akron, Ohio.
Filed Dec. 13, 1951, Serial No. 622,458. Published May 26, 1953. Class 42.

578,774. Diesel-Electric Locomotives. American Locomotive Company, New York and Schenectady, N. Y.
Filed Jan. 15, 1952, Serial No. 623,578. Published May 19, 1953. Class 21.

578,775. Cloths for Hot Rolls. Ruby D. Whitney, Chicago, Ill.
Filed Jan. 16, 1952, Serial No. 623,695. Published May 26, 1953. Class 42.

578,776. Nutritious Ration Feed for Poultry To Assist in the Control of Coccidiosis and Other Intestinal Disorders. Central Soya Company, Inc., Fort Wayne, Ind.
Filed Jan. 30, 1952, Serial No. 624,263. Published May 19, 1953. Class 46.

578,777. Dried and Powdered Cows' Milk Cream for General Table and Culinary Uses. M & R Dietetic Laboratories, Inc., doing business as Ten-B-Low Company, Columbus, Ohio.
Filed Jan. 31, 1952, Serial No. 624,343. Published May 19, 1953. Class 46.

578,778. Refractory Blocks, Bricks, and Bodies of Special Shape for Furnaces. Corhart Refractories Company, Louisville, Ky.
Filed Feb. 1, 1952, Serial No. 624,396. Published May 12, 1953. Class 12.

578,779. Hats for Women. Hat Corporation of America, Norwalk, Conn.
Filed Feb. 1, 1952, Serial No. 624,409. Published May 19, 1953. Class 39.

578,780. Electrical Lamps, Lamp Shades, and Lighting Fixtures. Eugene Chernoy, Ocean Park, Calif.
Filed Feb. 5, 1952, Serial No. 624,526. Published May 19, 1953. Class 21.

578,781. Removable Inserts for Vacuum Cleaner Suction Nozzles. Electrolux Corporation, Dover, Del., and New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,594. Published May 26, 1953. Class 21.

578,782. Narrowbeam Spotlights, High Intensity Flood-Lighting, Display Lighting. Russell Hellegers, Paterson, N. J.
Filed Feb. 12, 1952, Serial No. 624,829. Published May 19, 1953. Class 21.

578,783. Smoke Flavored Seasoning for Meats. Harvey Geroux, doing business under the fictitious name and style of Harvey's Products, Los Angeles, Calif.
Filed Feb. 14, 1952, Serial No. 624,944. Published May 19, 1953. Class 46.

578,784. Comic Strips in Comic Magazines. Terrytoons, Inc., New Rochelle, N. Y.
Filed Feb. 14, 1952, Serial No. 624,981. Published May 19, 1953. Class 38.

578,785. Fresh Apples. Brookfield Orchards, Inc., North Brookfield, Mass.
Original filed, act of 1946, Supplemental Register, Feb. 15, 1952; amended to application, Principal Register, Mar. 16, 1953, Serial No. 624,997. Published May 26, 1953. Class 46.

578,786. Electric Trolley Conductors, Collectors, and Insulating Sheathing. Benbow Manufacturing Co., Burlingame, Calif.
Filed Feb. 18, 1952, Serial No. 625,090. Published May 26, 1953. Class 21.

578,787. Men's and Boys' Sports Wear—Namely, Slack Pants, Long Sleeve Sport Shirts, Short Sleeve Sport Shirts, Outer Shorts, Jeans, and Jackets. Anvil Brand, Incorporated, High Point, N. C.
Filed Feb. 21, 1952, Serial No. 625,326. Published May 19, 1953. Class 39.

578,788. Men's Clothing and Furnishings—Namely, Men's Suits, Overcoats, and Topcoats. R. H. Macy & Co., Inc., New York, N. Y.
Filed Feb. 21, 1952, Serial No. 625,358. Published May 19, 1953. Class 39.

578,789. Women's Shoes Made From Leather, Fabric, Rubber, or Combinations of These Materials. The Selby Shoe Company, Portsmouth, Ohio.
Filed Mar. 5, 1952, Serial No. 626,004. Published May 19, 1953. Class 39.

578,790. Boots, Bootees, Shoes, Sandals, and Slippers for Men, Women, and Children. Brevitt Shoes Limited, Leicester, England.
Filed Mar. 13, 1952, Serial No. 626,365. Published May 19, 1953. Class 39.

578,791. Clothes Drying Racks. Falco Products Co., Philadelphia, Pa.
Filed Mar. 19, 1952, Serial No. 626,663. Published May 12, 1953. Class 24.

578,792. Clothes Drying Racks. Falco Products Co., Philadelphia, Pa.
Filed Mar. 20, 1952, Serial No. 626,734. Published May 12, 1953. Class 24.

578,793. Boys' Outer T-Shirts, Dress Shirts, Sport Shirts, Pajamas, Knitted Outer T-Shirts, Trousers, Outer Shorts, Caps, Eton Suits, Washsuits, and Sunsuits. The Kaynee Company, Cleveland, Ohio.
Filed Mar. 21, 1952, Serial No. 626,797. Published May 19, 1953. Class 39.

578,794. Men's, Women's, and Children's Overalls, Shirts, Jackets, Pants, Etc. Levi Strauss & Company, San Francisco, Calif.
Filed Mar. 22, 1952, Serial No. 626,915. Published May 19, 1953. Class 39.

578,795. Natural Brick Cheese, Processed Cheese, and Pickles. Milwaukee Cheese Co., Milwaukee, Wis.
Filed Mar. 25, 1952, Serial No. 627,001. Published May 19, 1953. Class 46.

578,796. Satchels, Handbags, Billfolds, Wallets, Briefcases, Change Purses. Joseph Newmann, New York, N. Y.
Filed Mar. 26, 1952, Serial No. 627,076. Published May 26, 1953. Class 3.

578,797. Corn Meal. Wilkins-Rogers Milling Company, Inc., Washington, D. C.
Filed Mar. 27, 1952, Serial No. 627,159. Published May 26, 1953. Class 46.

578,798. Dolls and Doll Clothes. Domenick Ippolito, doing business as Hollywood Doll Manufacturing Co., Glendale, Calif.
Filed Mar. 31, 1952, Serial No. 627,339. Published May 19, 1953. Class 22.

578,799. Power-Driven Thread Gaging Units. The Taft-Peirce Manufacturing Company, Woonsocket, R. I.
Filed Apr. 3, 1952, Serial No. 627,535. Published Apr. 14, 1953. Class 26.

578,800. Women's and Misses' Woolen, Cotton, and Rayon Suits. Harry R. Bretter, Inc., New York, N. Y.
Filed Apr. 7, 1952, Serial No. 627,670. Published May 19, 1953. Class 39.

578,801. Steel Sheets. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey.
Filed Apr. 7, 1952, Serial No. 627,720. Published May 19, 1953. Class 14.

578,802. Non-Sectarian, Non-Political Monthly Publication Advocating Universal Brotherhood. Theosophical Endowment Corporation, doing business as Theosophical University Press, Pasadena and Altadena, Calif.
Filed Apr. 8, 1952, Serial No. 627,782. Published May 19, 1953. Class 38.

578,803. Men's and Boys' Shoes of Leather, Rubber, Fabric, or Combinations Thereof. R. P. Hazzard Co., Augusta, Maine, and Boston, Mass.
Filed Apr. 9, 1952, Serial No. 627,815. Published May 19, 1953. Class 39.

578,804. Suitcases and Garment Bags for Travel Use. General Sewing Corp., New York, N. Y.
Filed Apr. 16, 1952, Serial No. 628,150. Published May 26, 1953. Class 3.

578,805. Clothing: Women's, Juniors', and Misses' Suits and Coats. Irvan Himmelstein, New York, N. Y.
Filed Apr. 18, 1952, Serial No. 628,273. Published May 19, 1953. Class 39.

578,806. Leather Purses. Oxenfeld Leathercraft Company, St. Louis, Mo.
Filed Apr. 18, 1952, Serial No. 628,290. Published May 26, 1953. Class 3.

578,807. Packaged Food Product Comprising an Individual Serving of Cooked Chicken and an Enveloping Container Adapted for Use as a Service Platter. Chicken Delight Inc., Rock Island, Ill.
Filed Apr. 29, 1952, Serial No. 628,846. Published Oct. 7, 1952. Class 46.

578,808. Parkaged Food Product Comprising an Individual Serving of Cooked Chicken and an Enveloping Container Adapted for Use as a Service Platter. Chicken Delight Inc., Rock Island, Ill.
Filed Apr. 29, 1952, Serial No. 628,847. Published Oct. 7, 1952. Class 46.

578,809. Metal Castings. Qualcast Limited, Derby, England.
Filed Apr. 29, 1952, Serial No. 628,873. Published May 26, 1953. Class 14.

578,810. Liquid Emulsifier Comprising Blended Glycerol, Ester of Fatty Acids, Hexatol Oleate Derivatives, and Other Ingredients for Use in Ice Cream. Limpert Bros. Inc., New York, N. Y., and Vineland, N. J.
Filed Apr. 30, 1952, Serial No. 628,948. Published May 19, 1953. Class 46.

578,811. Fresh Fruits and Vegetables. Morita Bros., Anaheim, Calif.
Filed May 5, 1952, Serial No. 629,212. Published May 26, 1953. Class 46.

578,812. Salad Dressing. Kenneth R. McCoy, doing business as The Real McCoy Products Co., St. Paul, Minn.
Filed May 7, 1952, Serial No. 629,306. Published May 26, 1953. Class 46.

578,813. Electrical Disintegrators and Mixers for Producing Fluid Substances From Solid Foods and Other Organic Matter and for Intermixing Fluids for Domestic, Commercial, and Industrial Uses. Waring Products Corporation, New York, N. Y.
Filed May 8, 1952, Serial No. 629,404. Published May 26, 1953. Class 21.

578,814. Ladies' Shoes. Belk's Buying Service, Inc., Charlotte, N. C.
Filed May 15, 1952, Serial No. 629,716. Published May 19, 1953. Class 39.

578,815. Men's and Boys' Hats and Caps, Dress Shirts, Outer and Under Shirts, Underwear, Sweaters, Sport Shirts, Basque Shirts, Jackets, and Trousers, Neckties, Bow Ties, and Combinations Thereof. Adam Hat Stores, Inc., New York, N. Y.
Filed May 16, 1952, Serial No. 629,758. Published May 19, 1953. Class 39.

578,816. Frozen Meats—Namely, Beef Steaks, Ground Beef, Beef Liver, Pork Chops, and Veal Cutlets. Holiday Frosted Food Co., Philadelphia, Pa., assignor to Robert S. Wolf, doing business as Holiday Frosted Food Co., Philadelphia, Pa.
Filed May 20, 1952, Serial No. 629,945. Published May 19, 1953. Class 46.

578,817. Christmas Cards and Greeting Cards. E. Errett Smith, Inc., New York, N. Y.
Filed May 20, 1952, Serial No. 629,963. Published May 19, 1953. Class 38.

578,818. Electrical Testers for Testing Ignition Timing of Internal Combustion Engines and Testers of Mechanical Type for Testing Compression in Cylinders of Internal Combustion Engines. Harvey E. Hanson, doing business as Harvey E. Hanson Company, Paw Paw, Mich.
Filed May 21, 1952, Serial No. 630,006. Published Apr. 21, 1953. Class 26.

578,819. Valises, Trunks, Suitcases, and Train Cases; Hat Cases, Wardrobe Cases, and Foot Lockers. Airline Luggage Shop, New York, N. Y.
Filed May 28, 1952, Serial No. 630,370. Published May 26, 1953. Class 3.

578,820. Travel Guides Issued Periodically. Quality Courts United, Inc., St. Petersburg, Fla.
Filed June 2, 1952, Serial No. 630,616. Published May 26, 1953. Class 38.



578,821. Handbags. Dorian Handbags, New York, N. Y.
Filed June 6, 1952, Serial No. 630,633. Published May 19, 1953. Class 3.

578,822. Coated Paper Particularly Suitable for the Manufacture of Labels, Tags, Books, Brochures, Maps, and Packages. The Munising Paper Company, Chicago, Ill.
Filed June 17, 1952, Serial No. 631,301. Published Apr. 14, 1953. Class 37.

578,823. Cathode Ray Tubes. National Union Radio Corporation, Orange, N. J.
Filed June 17, 1952, Serial No. 631,302. Published May 19, 1953. Class 21.

578,824. Bleachers. Seating Incorporated, Minneapolis, Minn.
Filed June 19, 1952, Serial No. 631,442. Published May 12, 1953. Class 12.

578,825. Canned Fruit Juices and Frosen Fruit Juices. Cia. Anma. Toddy Venesolana, Caracas, Venesuela.
Filed June 25, 1952, Serial No. 631,517. Published May 26, 1953. Class 46.

578,826. Airplanes. Consolidated Vultee Aircraft Corporation, San Diego, Calif.
Filed June 28, 1952, Serial No. 631,919. Published May 26, 1953. Class 19.

578,827. Magnetic Tape Sound Recorders and Parts Thereof. Magnecord, Inc., Chicago, Ill.
Filed July 8, 1952, Serial No. 632,259. Published May 19, 1953. Class 21.

578,828. Boys' Shirts, Blouses, and Jackets for Outer Wear. George Sherwin, Inc., New York, N. Y.
Filed July 8, 1952, Serial No. 632,274. Published Apr. 14, 1953. Class 39.

578,829. Counter Display Material Consisting of Color Chip Cards, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed July 19, 1952, Serial No. 632,800. Published May 19, 1953. Class 38.

578,830. Women's and Girls' Boots, Shoes, and Slippers. John White Footwear Limited, Higham Ferrers, England.
Filed July 18, 1952, Serial No. 633,240. Published May 19, 1953. Class 39.

578,831. Ladies' Dresses. Epstein Garment Co., Inc., New York, N. Y.
Filed July 31, 1952, Serial No. 633,303. Published May 19, 1953. Class 39.

578,832. Lamp Shades Made From Transparent Photographic Film. W. M. Cline Company, Chattanooga, Tenn.
Filed Aug. 1, 1952, Serial No. 633,350. Published May 19, 1953. Class 21.

578,833. Electrical Equipment—Namely, Battery Chargers and Power Transformers. Heyer Industries Incorporated, Belleville, N. J.
Filed Aug. 1, 1952, Serial No. 633,363. Published May 19, 1953. Class 21.

578,834. Infants' and Children's Creepers, Overalls, Slacks, Jackets, Pants, and Jodhpurs. Kid-O-Boy Togs, Brooklyn, N. Y.
Filed Aug. 1, 1952, Serial No. 633,368. Published May 19, 1953. Class 39.

578,835. Fresh Grapes. Richard Bagdasarian & Co., Thermal, Calif.
Filed Aug. 2, 1952, Serial No. 633,407. Published May 26, 1953. Class 46.

578,836. Magazine Section. Meredith Publishing Company, Des Moines, Iowa.
Filed Aug. 9, 1952, Serial No. 633,678. Published May 19, 1953. Class 38.

578,837. Children's Cowboy and Cowgirl Outfits Consisting of Holster Sets Complete With Toy Guns and Toy Bullets. Graton & Knight Company, Worcester, Mass.
Filed Aug. 13, 1952, Serial No. 633,845. Published May 26, 1953. Class 22.

578,838. Wallets, Billfolds, Key Holders, and Portfolios. The Osborne Company, Clifton, N. J.
Filed Aug. 13, 1952, Serial No. 633,863. Published May 26, 1953. Class 3.

578,839. Water Proofed Vegetable Fiber Board Used for Siding. Minnesota and Ontario Paper Company, Minneapolis, Minn.
Filed Aug. 16, 1952, Serial No. 634,051. Published May 12, 1953. Class 12.

578,840. Column Published in Daily Newspapers. United Press Associations, New York, N. Y.
Filed Aug. 19, 1952, Serial No. 634,176. Published May 19, 1953. Class 38.

578,841. Grooved Hardboard Laminated With Plywood. Columbia Plywood Co., Seattle, Wash.
Filed Aug. 25, 1952, Serial No. 634,435. Published May 12, 1953. Class 12.

578,842. Dry, Ready-Mixed Concrete. John W. Alther, Washington, D. C.
Filed Aug. 27, 1952, Serial No. 634,515. Published May 12, 1953. Class 12.

578,843. Handbags and Overnight Cases. Pichel Inc., New York, N. Y.
Filed Aug. 30, 1952, Serial No. 634,711. Published May 26, 1953. Class 3.

578,844. Finished Lumber—Namely, Panels and Moulding. Weidler Lumber Company, Inc., Chicago, Ill.
Filed Aug. 30, 1952, Serial No. 634,720. Published May 12, 1953. Class 12.

578,845. Wooden Flooring. The Connor Lumber and Land Company, Marshfield, Wis.
Filed Sept. 2, 1952, Serial No. 634,732. Published May 12, 1953. Class 12.

578,846. Pedal Cycles and Parts Therefor. The Hercules Cycle and Motor Company Limited, Birmingham, England.
Filed Sept. 2, 1952, Serial No. 634,740. Published May 26, 1953. Class 19.

578,847. Boots and Shoes for Men and Women. Manfield and Sons, Limited, Northampton, England.
Filed Sept. 2, 1952, Serial No. 634,745. Published May 19, 1953. Class 39.

578,848. Athletic Apparel—Namely, Uniforms, Shoes Without Attachments Thereon, and Socks Which Are of a Type Made Expressly for and Normally Used Only in the Playing of a Game of Sport or in a Field or Track Event. MacGregor Sport Products, Inc., Cincinnati, Ohio.
Filed Sept. 6, 1952, Serial No. 634,946. Published May 19, 1953. Class 39.

578,849. Paperboard. Alton Box Board Company, Alton, Ill.
Filed Sept. 11, 1952, Serial No. 635,114. Published Apr. 7, 1953. Class 37.

578,850. Periodicals in the Nature of Trade Magazines Containing Advertising, News, and Comments on Radio Broadcasting, and Sections of Such Periodicals. Broadcasting Publications, Inc., Washington, D. C.
Filed Sept. 12, 1952, Serial No. 635,170. Published May 19, 1953. Class 38.

578,851. Blank Tags and Labels, Partially Printed Tags and Labels, and Paper Identification Tags for Attachment to Products. A. M. Steigerwald Co., Chicago, Ill.
Filed Sept. 12, 1952, Serial No. 635,199. Published Apr. 7, 1953. Class 37.

578,852. Men's and Women's Shoes and Slippers Made of Leather and/or Fabric, or Mixtures of These Materials. A. S. Beck Shoe Corporation, New York, N. Y.
Filed Sept. 19, 1952, Serial No. 635,457. Published May 19, 1953. Class 39.

578,853. Song Arrangements Sold in Book and Sheet Music Form. The Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., Detroit, Mich.
Filed Sept. 26, 1952, Serial No. 635,854. Published May 26, 1953. Class 38.

578,854. Scooter Designed for Use in the Household as an Aid in Moving Furniture and the Like. Lacy Anderson, doing business as Anderson Household Scooter Products, Barberton, Ohio.
Filed Sept. 29, 1952, Serial No. 635,895. Published May 26, 1953. Class 19.

578,855. Pencils. British Pens Limited, Smethwick, Birmingham, England.
Filed Sept. 29, 1952, Serial No. 635,899. Published Apr. 14, 1953. Class 37.

578,856. Automatic Electric Circuit Breakers, Enclosures for Automatic Electric Circuit Breakers, and Assemblages of Automatic Electric Circuit Breakers—Namely, Panelboards, Panels, Panelettes, and Load Centers. Square D Company, Detroit, Mich.
Filed Oct. 2, 1952, Serial No. 636,096. Published May 26, 1953. Class 21.

578,857. Wearing Apparel—Namely, for Women: Dresses, Blouses, Skirts, Pinafores, Smocks, Aprons, Etc. Angelica Uniform Company, St. Louis, Mo.
Filed Oct. 3, 1952, Serial No. 636,108. Published May 26, 1953. Class 39.

578,858. Monthly Fiction Magazine. Gernsback Publications, Inc., New York, N. Y.
Filed Oct. 6, 1952, Serial No. 636,230. Published May 19, 1953. Class 38.

578,859. Storm Coats, for Men, Women, and Children. The Grove Company, St. Louis, Mo.
Filed Oct. 6, 1952, Serial No. 636,231. Published May 5, 1953. Class 39.

578,860. Ladies' Coats and Suits. City Stores Company, Philadelphia, Pa.
Filed Oct. 8, 1952, Serial No. 636,341. Published May 26, 1953. Class 39.

578,861. Prepared Advertising, Sold as Such. Master Graphic Service, Inc., New York, N. Y.
Filed Oct. 8, 1952, Serial No. 636,370. Published May 19, 1953. Class 38.

578,862. Automatic Laboratory Balances; Tachometers; Speedometers, Etc. John S. Bogen, doing business as Engineering Research and Development Company, Addison, Ill.
Filed Oct. 10, 1952, Serial No. 636,460. Published Apr. 14, 1953. Class 26.

578,863. Rice for Food. Converted Rice, Inc., Houston, Tex.
Filed Oct. 10, 1952, Serial No. 636,466. Published May 28, 1953. Class 46.

578,864. Monthly Magazine. Macfadden Publications, Inc., New York, N. Y.
Filed Oct. 10, 1952, Serial No. 636,485. Published May 19, 1953. Class 38.

578,865. Men's and Boys' Hats and Caps, Dress Shirts, Outer and Under Shirts, Underwear, Sweaters, Sport Shirts, Basque Shirts, Casual Shirts, Jackets and Trousers, Neckties, Bow-Ties, and Combinations Thereof. Adam Hat Stores, Inc., New York, N. Y.
Filed Oct. 11, 1952, Serial No. 636,505. Published May 19, 1953. Class 39.

578,866. Infants' and Children's Wear—Namely, Coats and Dresses. H & J Block Inc., New York, N. Y.
Filed Oct. 11, 1952, Serial No. 636,509. Published May 5, 1953. Class 39.

578,867. Monthly Periodical Devoted Principally to Articles on the Reconditioning, Construction, Maintenance, and Removal of Railroad Tracks. Kershaw Manufacturing Company, Inc., Montgomery, Ala.
Filed Oct. 13, 1952, Serial No. 636,588. Published May 19, 1953. Class 38.

578,868. Novelty Calendars. William H. Long, Kansas City, Mo.
Filed Oct. 15, 1952, Serial No. 636,645. Published May 26, 1953. Class 38.

578,869. Women's Pajamas, House Coats, Blouses, Evening and Cocktail Jackets; and Men's Dressing Gowns, Pajamas, and Smoking Jackets. Mandarin Textiles Limited, Kowloon, Hong Kong.
Filed Oct. 21, 1952, Serial No. 636,934. Published May 5, 1953. Class 39.

578,870. Galvanized Steel Sheets. Bethlehem Steel Company, Bethlehem, Pa.
Filed Oct. 25, 1952, Serial No. 637,165. Published May 26, 1953. Class 14.

578,871. Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric. The Boss Manufacturing Company, Kewanee, Ill.
Filed Oct. 25, 1952, Serial No. 637,168. Published May 26, 1953. Class 39.

578,872. Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric. The Boss Manufacturing Company, Kewanee, Ill.
Filed Oct. 25, 1952, Serial No. 637,170. Published May 26, 1953. Class 39.

578,873. Railroad Track Scales, Motor Truck Scales, Beam Industrial Scales, and Other Weighing Scales and Parts Thereof. L. R. Murphy, doing business as L. R. Murphy Co., Sacramento, Calif.
Filed Oct. 27, 1952, Serial No. 637,203. Published May 5, 1953. Class 26.

578,874. Promotional Periodical Directed to Users of Electric Motors and Appurtenances Thereto. The Louis Allis Company, Milwaukee, Wis.
Filed Oct. 27, 1952, Serial No. 637,230. Published May 19, 1953. Class 38.

578,875. Women's and Children's Shoes of Leather, Rubber, Fabric, Plastics, and Combinations Thereof. Broitman-Gaffin Shoes, Inc., New York, N. Y.
Filed Oct. 27, 1952, Serial No. 637,236. Published May 19, 1953. Class 39.

578,876. Potatoes in Their Natural State. Harvey Brothers, Swanton, Md.
Filed Oct. 28, 1952, Serial No. 637,276. Published May 26, 1953. Class 46.

578,877. Daily Newspaper. Orlando Daily Newspapers, Inc., Orlando, Fla.
Filed Oct. 29, 1952, Serial No. 637,322. Published May 26, 1953. Class 38.

578,878. Daily Newspaper. Orlando Daily Newspapers, Inc., Orlando, Fla.
Filed Oct. 29, 1952, Serial No. 637,323. Published May 26, 1953. Class 38.

578,879. Sunday Newspaper. Orlando Daily Newspapers, Inc., Orlando, Fla.
Filed Oct. 29, 1952, Serial No. 637,324. Published May 26, 1953. Class 38.

578,880. Decorative Tile and Mouldings. Tylac Company, Monticello, Ill.
Filed Oct. 30, 1952, Serial No. 637,400. Published May 12, 1953. Class 12.

578,881. Men's Outer Shirts. The Manhattan Shirt Company, New York, N. Y.
Filed Nov. 6, 1952, Serial No. 637,714. Published May 19, 1953. Class 39.

578,882. Women's Shoes. Brown Shoe Company, Inc., St. Louis, Mo.
Filed Nov. 10, 1952, Serial No. 637,859. Published May 19, 1953. Class 39.

578,883. Casings for Flash Lights. H & H Sales & Mfg. Company, Pittsburgh, Pa.
Filed Nov. 12, 1952, Serial No. 637,922. Published May 19, 1953. Class 21.

578,884. Steel Flooring. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Nov. 12, 1952, Serial No. 637,953. Published May 12, 1953. Class 12.



578,885. Magnetic Tape for Recording Sounds, Signals, Impulses, Etc., for Subsequent Reproduction. Minnesota Mining and Manufacturing Company, St. Paul, Minn.
Filed Nov. 17, 1952, Serial No. 638,208. Published May 19, 1953. Class 21.

578,886. Rice. Norman Webb Hutchings, Sr., and Norman Webb Hutchings, Jr., doing business under the names China Doll Company and Hutchings Brokerage Company, Mobile, Ala.
Filed Nov. 19, 1952, Serial No. 638,288. Published May 19, 1953. Class 46.

578,887. Organically Grown Natural Food Processed for Human Consumption in the Nature of a Dried Concentrate of Young Green Cereal Grain Juice in Powder Form. Green Life Products Company, Kansas City, Mo.
Filed Nov. 19, 1952, Serial No. 638,301. Published May 19, 1953. Class 46.

578,888. Radio Tubes—Namely, Receiving and Transmitting Tubes, Radio Transmitters and Receivers, and Parts Therefor. The Robert Dollar Co., San Francisco, Calif.
Filed Nov. 24, 1952, Serial No. 638,526. Published May 19, 1953. Class 21.

578,889. Radio Tubes—Namely, Receiving and Transmitting Tubes, Radio Transmitters and Receivers, and Parts Therefor. The Robert Dollar Co., San Francisco, Calif.
Filed Nov. 24, 1952, Serial No. 638,527. Published May 19, 1953. Class 21.

578,890. Aluminum, Brass, and Steel Wire; Metal Tubing Stock, Rods, Bars, Castings, Plates, Sheets, Strip, Metal Pipe Stock. Edgcomb Steel Company, Philadelphia, Pa.
Filed Nov. 28, 1952, Serial No. 638,702. Published May 19, 1953. Class 14.

578,891. Aluminum, Brass, and Steel Wire; Metal Tubing Stock, Rods, Bars, Castings, Plates, Sheets, Strip, Metal Pipe Stock. Edgcomb Steel Company, Philadelphia, Pa.
Filed Nov. 28, 1952, Serial No. 638,703. Published May 19, 1953. Class 14.

578,892. Newspaper Column or Columns. Fairchild Publications, Inc., New York, N. Y.
Filed Dec. 9, 1952, Serial No. 639,214. Published May 26, 1953. Class 38.

578,893. Publication for the Buyer, User, and Planner of Advertising Promotion and Printed Material. Colton Press, Inc., New York, N. Y.
Filed Dec. 10, 1952, Serial No. 639,264. Published May 26, 1953. Class 38.

578,894. Ironing Board Covers and Clothes Pins. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,513. Published May 19, 1953. Class 24.

578,895. Books and Greeting Cards. Stern Brothers, New York, N. Y.
Filed Dec. 15, 1952, Serial No. 639,520. Published May 26, 1953. Class 38.

578,896. Children's Dresses. E. & E. Shuwall Co., New York, N. Y.
Filed Dec. 17, 1952, Serial No. 639,667. Published May 26, 1953. Class 39.

578,897. Corsets, Girdles, Brassières, and Foundation Garments. Treo Company, Inc., Jamaica, N. Y.
Filed Dec. 17, 1952, Serial No. 639,672. Published May 26, 1953. Class 39.

578,898. Corsets, Girdles, and Foundation Garments. Treo Company, Inc., Jamaica, N. Y.
Filed Dec. 17, 1952, Serial No. 639,673. Published May 26, 1953. Class 39.

578,899. Corsets, Girdles, and Foundation Garments. Treo Company, Inc., Jamaica, N. Y.
Filed Dec. 17, 1952, Serial No. 639,674. Published May 26, 1953. Class 39.

578,900. Cotton Yarn Twisted With a Nylon Filament Yarn. Clarence L. Meyers & Co., Philadelphia, Pa.
Filed Dec. 19, 1952, Serial No. 639,765. Published May 26, 1953. Class 43.

578,901. Rayon Carpeting and Cotton Carpeting. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga.
Filed Dec. 20, 1952, Serial No. 639,800. Published May 26, 1953. Class 42.

578,902. Textile Fabrics in the Piece of Cotton. Dan River Mills, Incorporated, Danville, Va.
Filed Dec. 23, 1952, Serial No. 639,921. Published May 26, 1953. Class 42.

578,903. Women's, Misses', and Children's Undergarments—Namely, Panties, Bloomers, Slips, Brassières, Girdles, and Garter Belts. Plymouth Undergarment Co., New York, N. Y.
Filed Dec. 23, 1952, Serial No. 639,952. Published May 26, 1953. Class 39.

578,904. Floats Used in Fishing. Dayton Bait Company, Dayton, Ohio.
Filed Dec. 26, 1952, Serial No. 640,036. Published May 19, 1953. Class 22.

578,905. Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Goods. Tanbro Fabrics Corp., New York, N. Y.
Filed Dec. 30, 1952, Serial No. 640,173. Published May 26, 1953. Class 42.

578,906. Flower Boxes. Sears, Roebuck and Co., Chicago, Ill.
Filed Jan. 9, 1953, Serial No. 640,586. Published May 26, 1953. Class 2.

578,907. Maple Syrup, Assorted Fruits in Corn Syrup, Raspberry Jam, Raspberry Preserve, Strawberry Preserve, Grape Preserve, Grape Jam, and Orange Marmalade. Fanny Farmer Candy Shops, Inc., Rochester, N. Y.
Filed Jan. 13, 1953, Serial No. 640,676. Published May 26, 1953. Class 46.

578,908. Paperboard Folding Cartons. O. B. Andrews Company, Chattanooga, Tenn.
Filed Jan. 15, 1953, Serial No. 640,774. Published May 26, 1953. Class 2.

578,909. Spring Jump Toy. Louis Marx & Co. Inc., New York, N. Y.
Filed Jan. 21, 1953, Serial No. 641,065. Published May 19, 1953. Class 22.

578,910. Alloys in Bar, Rod, and Slab Form. Welger Weed & Company, Detroit, Mich.
Filed Jan. 21, 1953, Serial No. 641,106. Published May 19, 1953. Class 14.

578,911. Snelled Hooks and Fishing Leaders. Berkley W. Bedell, doing business as Berkley Fly Company, Spirit Lake, Iowa.
Filed Jan. 26, 1953, Serial No. 641,267. Published May 26, 1953. Class 22.

578,912. Fish Lines. Cortland Line Company, Inc., Cortland, N. Y.
Filed Jan. 28, 1953, Serial No. 641,440. Published May 26, 1953. Class 22.

578,913. Aluminum Foil. Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky.
Filed Jan. 29, 1953, Serial No. 641,500. Published May 26, 1953. Class 14.

## Service Marks

578,914. Musical Entertainment by a Dance Orchestra. Bernard Stolzman, also known as Bernie Mann, Flushing, N. Y.
Filed Nov. 22, 1950, Serial No. 606,816. Published May 19, 1953. Class 107.

578,915. Fabrication of Material Handling Conveyers and Material Handling Equipment on a Custom Basis. Mathews Conveyer Company, Ellwood City, Pa.
Filed Dec. 15, 1950, Serial No. 607,711. Published May 19, 1953. Class 106.

578,916. Surface Hardening Steel Production Parts of Others. The Chapman Valve Manufacturing Company, Springfield, Mass.
Filed May 16, 1951, Serial No. 613,902. Published May 19, 1953. Class 106.

578,917. Maintenance and Repair of Electronic Devices—Namely, Hearing Aid Equipment. Telex, Inc., St. Paul, Minn.
Filed Sept. 5, 1951, Serial No. 618,410. Published May 19, 1953. Class 103.

578,918. Threading, Drilling, Punching, Forming, Grinding, and Milling; Hardening and Annealing by Heat Treatment; and Nickel, Chrome, Copper, Cadmium, and Zinc Plating of Steel Forgings, Castings, Die Castings, Stampings, and of Plastics. Ohio Tool & Manufacturing Company, Toledo, Ohio.
Filed Feb. 15, 1952, Serial No. 625,021. Published May 19, 1953. Class 106.

578,919. Resurfacing of Structures by Application of Mineral Substances Thereto To Render Same Waterproof, Fire-Retardant, Sound-Proof, and Weather-Proof, Such Buildings Including Homes, Industrial Buildings, and Commercial Buildings. Ted W. Ruegsegger, doing business as Tedrick Company, Chicago, Ill.
Filed June 13, 1952, Serial No. 631,181. Published May 19, 1953. Class 103.

578,920. Chemical Extermination and Eradication of Termites in Homes and Buildings. Chemtox Company, Ltd., Honolulu, Hawaii.
Filed June 17, 1952, Serial No. 631,268. Published May 19, 1953. Class 103.

578,921. Repairing, Servicing, and Maintaining Aircraft Engines and Component Parts of Aircraft and Aircraft Engines. Air Carrier Engine Service, Inc., Miami, Fla.
Filed July 25, 1952, Serial No. 633,027. Published May 19, 1953. Class 103.

## ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

578,922. (Class 47. Wines.) Averys of Bristol Limited, Bristol, England. Original filed, act of 1946, Principal Register, July 26, 1949; amended to application, Supplemental Register, July 31, 1952, Serial No. 582,517.

AVERY'S

Applicant claims ownership of British Registration No. 639,445, dated Aug. 21, 1945.
For Wines.

578,923. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Hopp Press, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, Mar. 29, 1951, Serial No. 590,365.

"Sta-Bright"!

For Moulded Metal Strips for Mounting Printed Price Cards and Printed Price Tags.
Claims use since Sept. 15, 1949.

578,924. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Manco Mfg. Co., Bradley, Ill. Original filed, act of 1946, Principal Register, Feb. 4, 1950; amended to application, Supplemental Register, Mar. 9, 1953, Serial No. 591,993.

GUILLOTINE

For Portable Hydraulic Cutters and Shears for Cutting and Shearing Wire Rope, Metal Rods, and Chains.
Claims use since Jan. 4, 1950.

578,925. (Class 2. Receptacles.) Louis H. Bennett, La Porte, Ind. Original filed, act of 1946, Principal Register, Feb. 16, 1950; amended to application, Supplemental Register, Mar. 1, 1951, Serial No. 592,539.

E-Z FREEZE

For Plastic Refrigerator Dishes.
Claims use since Sept. 1, 1948.

578,926. (Class 2. Receptacles.) Atlantic Products Corporation, Trenton, N. J. Original filed, act of 1946, Principal Register, May 16, 1950; amended to application, Supplemental Register, June 11, 1953, Serial No. 597,490.

CAR SAC

For Garment Bags.
Claims use since Apr. 13, 1950.

578,927. (Class 12. Construction Materials.) Butler Manufacturing Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, June 10, 1950; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 598,883.




Applicant claims ownership of Registrations Nos. 416,062, 383,273, 319,608, and others.
For Preformed Relatively Rigid Panels of Translucent Sheet Material for Use as Exterior Siding and Roofing for Buildings To Form Window and Skylight Areas Therein.
Claims use since Apr. 28, 1950.



578,928. (Class 45. Soft Drinks and Carbonated Waters.) Quix Flavoring Extract Corp., Richmond Hill, N. Y. Original filed, act of 1946, Principal Register, Oct. 12, 1950; amended to application, Supplemental Register, Oct. 17, 1952, Serial No. 604,804.

NATURA LEMON

For Concentrate for Making a Non-Alcoholic Maltless Lemon-Flavored Soft Drink and for Use as Mixer.
Claims use since Sept. 15, 1950.

578,929. (Class 31. Filters and Refrigerators.) Motor Products Corporation, North Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 9, 1950; amended to application, Supplemental Register, Apr. 24, 1953, Serial No. 607,505.

FOOD BANK

For Home Freezers.
Claims use since Aug. 20, 1950.

578,930. (Class 2. Receptacles.) Bemis Bro. Bag Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, Feb. 23, 1951; amended to application, Supplemental Register, June 19, 1953, Serial No. 610,408.

Stak-Rite

For Paper Bags.
Claims use since July 19, 1950.

578,931. (Class 39. Clothing.) Edgar W. Jeffries, Guatemala City, Guatemala. Original filed, act of 1946, Principal Register, Mar. 26, 1951; amended to application, Supplemental Register, Mar. 6, 1952, Serial No. 611,791.

MAYAN MODERN

The drawing is lined for shading purposes only.
For Ladies' Dresses and Skirts.
Claims use since Nov. 18, 1950, and since Nov. 18, 1950, in commerce between foreign nations and the United States.

578,932. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio. Original filed, act of 1946, Principal Register, Apr. 12, 1951; amended to application, Supplemental Register, Apr. 9, 1953, Serial No. 612,539.

Quick-Lock

For Pulleys and Sheaves for Use With Flexible Belts.
Claims use since January 1950.

578,933. (Class 52. Detergents and Soaps.) W. M. Barr & Company, Memphis, Tenn. Original filed, act of 1946, Principal Register, May 4, 1951; amended to application, Supplemental Register, Mar. 17, 1952, Serial No. 613,492.




The drawing is lined for yellow, red and black.
For Concentrated Chemical Used Either for the Cleaning of Metal Surfaces or for the Removal of Rust Therefrom Preparatory to Painting.
Claims use since May 5, 1950.

578,934. (Class 18. Medicines and Pharmaceutical Preparations.) Hospital Liquids, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, July 27, 1951; amended to application, Supplemental Register, June 8, 1953, Serial No. 617,031.

SHAW

For Intravenous and Subcutaneous Solutions—Namely, Ringer's, Hartmann's, Dextrose, Molar Sodium Lactate and Normal Saline Solution.
Claims use since Sept. 1, 1945.

578,935. (Class 12. Construction Materials.) Wilbert W. Haase Co., Forest Park, Ill. Filed Aug. 11, 1951, Serial No. 617,584.

SUPERSEAL

Applicant claims ownership of Registration No. 533,512.
For Asphaltic Sealing Composition, Especially Adapted for Use in Sealing Concrete Burial Vaults.
Claims use since Mar. 1, 1951, in the form shown; and since Aug. 5, 1948, in a different form.

578,936. (Class 31. Filters and Refrigerators.) Powers Supply Company, South Gate, Calif. Original filed, act of 1946, Principal Register, Aug. 17, 1951; amended to application, Supplemental Register, Apr. 3, 1953, Serial No. 617,812.

EDISON

Velva - Soft

For Water Softeners of the Ion Exchange Type.
Claims use since Feb. 14, 1951.

578,937. (Class 46. Foods and Ingredients of Foods.) Thomas Carvel, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 24, 1951; amended to application, Supplemental Register, May 8, 1952, Serial No. 620,398.



DARI-FREEZE

The representation of the cone from which extends the frozen confection is hereby disclaimed apart from the mark shown. Applicant claims ownership of Registration No. 550,082.

For Frozen Custards, Ice Creams, and Ices.
Claims use since Sept. 17, 1948.

578,938. (Class 33. Glassware.) Owens-Illinois Glass Company, Toledo, Ohio, assignor to Kimble Glass Company, Toledo, Ohio, a corporation of Ohio. Original filed, act of 1946, Principal Register, Feb. 1, 1952; amended to application, Supplemental Register, Apr. 23, 1953, Serial No. 624,422.

COLOR-BREAK

For Ampuls Formed of Glass.
Claims use since July 5, 1951.

578,939. (Class 38. Prints and Publications.) Lasersohn-Doneger, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 5, 1952; amended to application, Supplemental Register, May 7, 1953, Serial No. 625,986.

FASHION FUTURES

For Prepared Advertising, Sold as Such.
Claims use since Feb. 18, 1952.

578,940. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Utica Drop Forge & Tool Corporation, Utica, N. Y. Filed Mar. 6, 1952, Serial No. 626,061.

ADD POWER TO YOUR HANDS

For Pliers, Nippers, Wrenches, Snips, and Screw Drivers.
Claims use since Dec. 27, 1950.

578,941. (Class 37. Paper and Stationery.) Wall-Dec Company, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 22, 1952; amended to application, Supplemental Register, June 22, 1953, Serial No. 626,925.

squares
*by wall-dec*

For Wall Paper.
Claims use since Feb. 3, 1952.

578,942. (Class 49. Distilled Alcoholic Liquors.) Pellisson Pere & Cie, doing business as Beaupré & Co., Cognac Charente, France. Original filed, act of 1946, Principal Register, Apr. 8, 1952; amended to application, Supplemental Register, Nov. 6, 1952, Serial No. 627,770.




For Brandy.
Claims use since 1902.

578,943. (Class 39. Clothing.) Wm. L. Laventure, Huntington Park, Calif. Original filed, act of 1946, Principal Register, May 2, 1952; amended to application, Supplemental Register, Apr. 15, 1953, Serial No. 629,112.

ARCH CLASP

For Men's and Women's Shoes Made of Leather.
Claims use since Apr. 14, 1952.

578,944. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Dixon Lubricating Saddle Co., Bristol, R. I. Original filed, act of 1946, Principal Register, May 7, 1952; amended to application, Supplemental Register, May 19, 1953, Serial No. 629,293.

RULON

For Machine Bearings, Including Sleeve Bearings, Flat Plates, O-Rings, and Textile Half-Sleeve Bearings, Incorporated in Textile Machinery.
Claims use since Nov. 28, 1951.

578,945. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Oregon Saw Chain Corporation, Portland, Oreg. Original filed, act of 1946, Principal Register, May 9, 1952; amended to application, Supplemental Register, Mar. 31, 1953, Serial No. 629,456.

ARMOR-TIP

For Saw Bars for Power Chain Saws.
Claims use since Jan. 7, 1952.

578,946. (Class 52. Detergents and Soaps.) Arthur Gallo, Chicago, Ill. Original filed, act of 1946, Principal Register, May 15, 1952; amended to application, Supplemental Register, June 10, 1953, Serial No. 629,728.

Clean-Aid

For Liquid Preparation for Dissolving and Removing Wax From and Otherwise Cleaning the Ear Molds of Hearing Aid Devices.
Claims use since May 2, 1952.



578,947. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Dixon Lubricating Saddle Co., Bristol, R. I. Original filed, act of 1946, Principal Register, May 17, 1952; amended to application, Supplemental Register, May 19, 1953, Serial No. 629,844.

LO-FRICTION

For Parts of a Spinning Frame, Comprising Bobbin Holders, Saddles, and Cap Bars.
Claims use since May 7, 1952.

578,948. (Class 37. Paper and Stationery.) Manahan Paper and Plastic Products Co., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, May 20, 1952; amended to application, Supplemental Register, May 18, 1953, Serial No. 629,949.

E. Z. FREEZE

For Polyethylene Laminated Paper for Wrapping Food.
Claims use since May 6, 1952.

578,949. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Sterling Radiator Co. Inc., Westfield, Mass. Original filed, act of 1946, Principal Register, May 22, 1952; amended to application, Supplemental Register, June 8, 1953, Serial No. 630,101.

ADJUST-A-ROLL

For Brackets for Finned Radiator Tubing.
Claims use since Apr. 21, 1952.

578,950. (Class 38. Prints and Publications.) Charlotte Thorndike North, Montclair, N. J. Original filed, act of 1946, Principal Register, May 29, 1952; amended to application, Supplemental Register, May 11, 1953, Serial No. 630,507.

"MINIKINS"

For Prints From Color Photographic Slides.
Claims use since Apr. 29, 1952.

578,951. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) H. D. Hudson Manufacturing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, June 9, 1952; amended to application, Supplemental Register, Apr. 20, 1953, Serial No. 630,935.

SaFTLok

For Hand Operated Compression Sprayers, for Use in Applying Insecticides, Fungicides, Disinfectants, Deodorants, Whitewash, Cold Water Paints, Curing Compounds, Wood Treating Solutions, Protective Coatings, Preservatives, Shingle Stains, Cleaning Compounds, Dust Settling Materials, and Anti-Rust Compounds.
Claims use since Apr. 7, 1952.

578,952. (Class 37. Paper and Stationery.) Pres-Sure-Stik Corp., New York, N. Y. Original filed, act of 1946, Principal Register, June 10, 1952; amended to application, Supplemental Register, May 1, 1953, Serial No. 631,023.

*Pres-Sure-Stik*

For Pressure Sensitive Adhesive Paper Sold in Sheets.
Claims use since Apr. 28, 1952.

578,953. (Class 31. Filters and Refrigerators.) Edwin L. Rodwell, doing business as The Rodwell Engineering and Sales Company, Omaha, Nebr. Original filed, act of 1946, Principal Register, June 13, 1952; amended to application, Supplemental Register, May 14, 1953, Serial No. 631,180.

CLEAN★WELL

For Filters.
Claims use since Apr. 26, 1951.

578,954. (Class 38. Prints and Publications.) Perfect Circle Corporation, Hagerstown, Ind. Original filed, act of 1946, Principal Register, June 16, 1952; amended to application, Supplemental Register, May 11, 1953, Serial No. 631,251.

*Jobber Journal*

For Trade Periodical.
Claims use since Apr. 21, 1952.

578,955. (Class 12. Construction Materials.) Simpson Logging Company, Seattle, Wash. Original filed, act of 1946, Principal Register, July 28, 1952; amended to application, Supplemental Register, Apr. 27, 1953, Serial No. 633,173.

HARDLITE

For Hardboard.
Claims use since Apr. 1, 1952.

578,956. (Class 40. Fancy Goods, Furnishings, and Notions.) Ben-Hur Products, Inc., New York, N. Y. Original filed; act of 1946, Principal Register, Aug. 2, 1952; amended to application, Supplemental Register, Feb. 5, 1953, Serial No. 633,410.

CLINCHER

For Hair Goods—Namely, Plastic Round Holders in the Nature of Grip Combs for Women's Hair.
Claims use since February 1950.

578,957. (Class 2. Receptacles.) Container Corporation of America, Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 24, 1952; amended to application, Supplemental Register, Jnne 19, 1953, Serial No. 635,686.

*Stak-Lok*

For Paperboard Shipping Cases.
Claims use since on or about June 10, 1952.

578,958. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) William H. MacKenzie, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 11, 1952; amended to application, Supplemental Register, Mar. 16, 1953, Serial No. 636,531.

MAC KENZIE
STEAM KING

For Steam Traps and Valves.
Claims use since Oct. 15, 1951.

578,959. (Class 32. Furniture and Upholstery.) Charles F. Conklin, South Gate, Calif. Original filed, act of 1946, Principal Register, Oct. 21, 1952; amended to application, Supplemental Register, Mar. 30, 1953, Serial No. 636,924.

Spring Craft

The lining shown on the drawing is for shading purposes only.
For Mattresses.
Claims use since June 29, 1951.

578,960. (Class 45. Soft Drinks and Carbonated Waters.) Acme Beverage Company, Wilkes-Barre, Pa. Filed Oct. 29, 1952, Serial No. 637,291.

JUNE KOLA

Applicant claims ownership of Registration No. 529,280.
For Maltless Soft Drinks and Carbonated Waters.
Claims use since on or about Mar. 15, 1946.

578,961. (Class 46. Foods and Ingredients of Foods.) Vejin, Inc., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Dec. 16, 1952; amended to application, Supplemental Register, June 11, 1953, Serial No. 639,598.

DE-PAN

For Mixture of Edible Oils Sold to Bakers for Use in Greasing Bread and Cake Pans.
Claims use since Mar. 27, 1952.

578,962. (Class 39. Clothing.) Blue Bell, Inc., Greensboro, N. C. Filed Dec. 17, 1952, Serial No. 639,615.

STAFLAT LEG SEAMS

For Men's Work Pants.
Claims use since Nov. 24, 1950.

578,963. (Class 38. Prints and Publications.) The W. C. Platt Company, Cleveland, Ohio, assignor to McGraw-Hill Publishing Co. Inc., New York, N. Y. Filed Dec. 23, 1952, Serial No. 639,951.

Platt's MOBILIZATION OIL DIRECTORY and OILMANAC

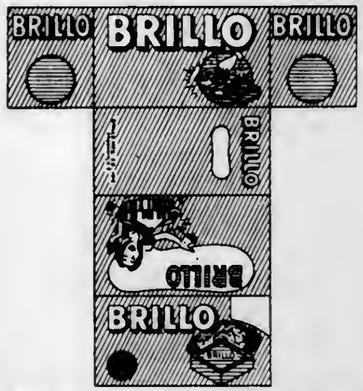
Applicant claims ownership of Registration No. 191,456.
For Publication Issued From Time to Time.
Claims use since June 15, 1951.

578,964. (Class 39. Clothing.) Claus F. Obermeyer, doing business as Sport-Obermeyer, Aspen, Colo. Original filed, act of 1946, Principal Register, Jan. 5, 1953; amended to application, Supplemental Register, June 5, 1953, Serial No. 640,355.

GARMISCH

For Ski Boots for Men and Women.
Claims use since Nov. 24, 1951.

578,965. (Class 4. Abrasives and Polishing Materials.) Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Filed Jan. 16, 1953, Serial No. 640,837.




The drawing is lined for the colors red and green. The representation of a woman is fanciful. Applicant claims ownership of Registration No. 537,178.
For Cleanser Consisting of Scouring Pads and a Cake of Soap.
Claims use since Jan. 2, 1951.

### Certification Marks

578,966. (Class 49. Distilled Alcoholic Liquors.) Syndicat des Producteurs & de Propagande du Pineau des Charentes, Cognac (Charente), France. Original filed, act of 1946, Principal Register, Dec. 10, 1948; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 570,334.

PINEAU CHARENTAIS

Applicant claims ownership of French Registration No. 12,496, dated Apr. 17, 1948.
For Alcoholic Aperitifs, Brandies, and Alcoholic Liqueurs.

578,967. (Class 49. Distilled Alcoholic Liquors.) Syndicat des Producteurs & de Propagande du Pineau des Charentes, Cognac (Charente), France. Original filed, act of 1946, Principal Register, Dec. 10, 1948; amended to application, Supplemental Register, Feb. 26, 1953, Serial No. 570,335.

PINEAU DES CHARENTES

Applicant claims ownership of French Registration No. 12,497, dated Apr. 17, 1948.
For Alcoholic Aperitifs, Brandies, and Alcoholic Liqueurs.

# TRADE-MARK REGISTRATIONS RENEWED

41,440. GONOSAN. Registered Nov. 10, 1903. J. D. Riedel, Berlin, Germany. Re-renewed Nov. 10, 1953, to Riedel & Co. Inc., Brooklyn, N. Y., a corporation of New York. Medicinal Preparation for Internal Use Against Gonorrhea and Other Diseases. Class 18.

91,642. SAGRAPHEN. Registered May 20, 1913. Bristol-Myers Company, Brooklyn and New York, N. Y. Renewed May 20, 1953, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware. Tonic Laxative, Laxative, Cathartic, Etc. Class 18.

91,758. "CORONA" AND DESIGN. Registered May 27, 1913. Corona Chemical Company, Milwaukee, Wis. Renewed May 27, 1953, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Insecticides. Class 6.

91,890. REPRESENTATION OF MEN AND HORSES ETC. Registered June 3, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Re-renewed June 3, 1953. Oil Liniment. Class 18.

91,891. DR. J. H. McLEAN'S OIL LINIMENT. Registered June 3, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Re-renewed June 3, 1953. Oil Liniment. Class 18.

91,984. REPRESENTATION OF MEN AND WOMEN. Registered June 10, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Re-renewed June 10, 1953. Medicines and Preparations for the Treatment of the Blood, Biliousness, Stomach, Bowels, Etc. Class 18.

91,986. DR. J. H. McLEAN'S. Registered June 10, 1913. The Dr. J. H. McLean Medicine Company, St. Louis, Mo., a corporation of Missouri. Re-renewed June 10, 1953. Medicines, Preparations, Compounds, and Tablets Designed and Intended for the Treatment of and as Remedies for Diseases, Etc. Class 18.

92,357. THE ABBOT'S CHOICE. Registered July 1, 1913. John McEwan & Co. Re-renewed July 1, 1953, to John McEwan & Co. Limited, Edinburgh, Scotland, a limited liability company registered under the laws of Great Britain. Whisky. Class 49.

92,428. KENWOOD. Registered July 8, 1913. F. C. Huyck and Sons, Rensselaer and Albany, N. Y. Renewed July 8, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Bed-Blankets and Steamer-Rugs. Class 42.

92,488. ANCHOR. Registered July 8, 1913. Warren Chemical & Manufacturing Company. Re-renewed July 8, 1953, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Asphalt, Asphaltic Composition Including Asphalt, Asphalt Roofing, Etc. Class 12.

92,489. REPRESENTATION OF ANCHOR. Registered July 8, 1913. Warren Chemical & Manufacturing Company. Re-renewed July 8, 1953, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Asphalt, Asphaltic Compositions, Including Asphalt, Asphalt Roofing, Etc. Class 12.

92,490. ANCHOR. Registered July 8, 1913. Warren Chemical & Manufacturing Company. Re-renewed July 8, 1953, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Sheathing and Roofing Felt. Class 12.

92,968. "MEADOW BROOK" AND DESIGN. Registered Aug. 12, 1913. Figge & Hutwelker Co., Glen Cove and New York, N. Y. Re-renewed Aug. 12, 1953, to Figge & Hutwelker Co., New York, N. Y., a corporation of New York. Hams, Bacon, Lard, and Sausages. Class 46.

92,969. "GOTHAM" AND DESIGN. Registered Aug. 12, 1913. Figge & Hutwelker Co., Glen Cove and New York, N. Y. Re-renewed Aug. 12, 1953, to Figge & Hutwelker Co., New York, N. Y., a corporation of New York. Hams, Bacon, Lard, and Sausages. Class 46.

93,606. LYNCO. Registered Sept. 30, 1913. Lynn Rubber Manufacturing Company, Lynn, Mass. Re-renewed Sept. 30, 1953, to Kleistone Rubber Co., Inc., Warren, R. I., a corporation of Massachusetts. Arch Supports To Be Inserted in Shoes To Relieve Strain and Pressure Upon the Bones of the Feet. Class 44.

93,621. THE BELLBOY. Registered Sept. 30, 1913. Western Clock Co., Peru, Ill. Re-renewed Sept. 30, 1953, to General Time Corporation, New York, N. Y., a corporation of Delaware. Clocks and Watches. Class 27.

93,627. NIVEA. Registered Oct. 7, 1913. P. Beiersdorf & Co., Hamburg, Germany. Re-renewed Oct. 7, 1953, to Duke Laboratories, Inc., Stamford, Conn., a corporation of New York. Cosmetic Powder, Cosmetic Paste, and Preparations for the Hair. Class 51.

93,645. "OLIO SASSO" ETC. AND DESIGN. Registered Oct. 7, 1913. P. Sasso e Figli, Oneglia, Italy, a firm of Italy. Re-renewed Oct. 7, 1953. Olive Oil. Class 46.

94,123. LAPIDOLITH. Registered Nov. 4, 1913. L. Sonneborn Sons, Inc., New York, N. Y., a corporation of Delaware. Re-renewed Nov. 4, 1953. A Solution for Rendering Concrete Constructions Abrasion-Proof and Waterproof, and Known in the Trade as a Hardener. Class 6.

94,177. COPPER HARDENED. Registered Nov. 11, 1913. Great Western Smelting & Refining Co., Chicago, Ill. Re-renewed Nov. 11, 1953, to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey. Babbitt and Anti-Friction Metals. Class 14.

301,256. FROSTYADE. Registered Feb. 21, 1933. F. B. Chamberlain Company, East St. Louis, Ill., and St. Louis, Mo. Renewed Feb. 21, 1953, to F. B. Chamberlain Company, St. Louis, Mo., a corporation of Illinois. Powder Compound in Various Fruit Flavors, Particularly Orange, Grape, Strawberry, Etc. Class 45.

302,036. TRIPLEX. Registered Mar. 21, 1933. Triplex Tire Co., Ltd., Oakland, Calif. Renewed Mar. 21, 1953, to Triplex Tire Co., Ltd., Campbell, Calif., a corporation of Nevada. Pneumatic Rubber Tires. Class 35.

303,156. "SANDY MACDONALD" ETC. AND DESIGN. Registered May 16, 1933. Macdonald, Greenlees, Limited, Leith, Scotland. Renewed May 16, 1953, to Macdonald, Greenlees Limited, Edinburgh, Scotland, a limited liability company registered under the laws of Great Britain. Scotch Whisky. Class 49.

303,311. "FREEZ PRUF" AND DESIGN. Registered May 23, 1933. Publicker Commercial Alcohol Company. Renewed May 23, 1953, to Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania. Anti-Freeze Compounds. Class 6.

303,420. KINGS COURT. Registered May 23, 1933. Citrus Juice & Flavor Co., Ltd., Los Angeles, Calif. Renewed May 23, 1953, to Citrus Juice & Flavor Co. Ltd., Santa Ana, Calif., a corporation of Nevada. Non-Alcoholic, Maltless Beverages Sold as Soft Drinks, and Extracts and Syrups for Making Same. Class 45.

303,911. SIMPLEX. Registered June 13, 1933. General Fire Extinguisher Company. Renewed June 13, 1953, to Grinnell Corporation, Providence, R. I., a corporation of Delaware. Automatic Sprinkler Systems. Class 13.

304,052. TOMAHAWK. Registered June 20, 1933. The Barrett Company. Renewed June 20, 1953, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Building Paper Suitable for Covering Concrete During Its Curing, for Temporary Roofs, Etc. Class 12.

304,104. "PITTSBURGH PAINT PRODUCTS" AND DESIGN LINED FOR ORANGE AND GOLD. Registered June 20, 1933. Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 20, 1953. Liquid and Paste Paints, Paint Primers, Paint Enamels, and Lacquers. Class 16.

304,253. "OLD PAR" ETC. AND DESIGN. Registered June 27, 1933. Macdonald, Greenlees Limited, Leith, Scotland. Renewed June 27, 1953, to Macdonald, Greenlees Limited, Edinburgh, Scotland, a limited liability company registered under the laws of Great Britain. Whisky. Class 49.

304,449. SHELTA. Registered July 11, 1933. Sidney Blumenthal & Co., Inc., New York, N. Y., a corporation of New York. Renewed July 11, 1953. Pile Fabrics, in the Piece. Class 42.

304,496. WILLIAMS. Registered July 11, 1933. The J. B. Williams Company, Glastonbury, Conn., a corporation of Connecticut. Renewed July 11, 1953. Preparations for Treatment of the Hair and Beard, Toilet Powders, Preparations for Cleaning the Teeth, and After-Shaving Preparations. Class 51.

304,525. KENMEDE. Registered July 11, 1933. F. C. Huyck & Sons, Rensselaer and Albany, N. Y. Renewed July 11, 1953, to F. C. Huyck & Sons, Albany, N. Y., a corporation of New York. Bed Blankets of Textile Fabric. Class 42.

304,714. "VIGO" AND DESIGN. Registered July 18, 1933. Pedrick Laboratories Inc., Tulsa and Sand Springs, Okla. Renewed July 18, 1953, to Pedrick Laboratories, Tulsa, Okla., a partnership. Canned Dog Food. Class 46.

304,883. "SKEE ROLL" AND DESIGN. Registered July 18, 1933. National Skee-Ball Company, Inc., Brooklyn, N. Y. Renewed July 18, 1953, to Philadelphia Toboggan Company, Philadelphia, Pa., a corporation of Pennsylvania. Game in the Nature of a Bowling Game and Parts Thereof. Class 22.

304,928. BROOKSTREET. Registered July 25, 1933. Raleigh Haberdasher, Inc., Washington, D. C., a corporation of the District of Columbia. Renewed July 25, 1953. Men's Suits, Overcoats, and Top-Coats. Class 39.

304,962. PUMPCRETE. Registered July 25, 1933. Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed July 25, 1953. Pumps for Concrete and Similar Plastic Materials. Class 23.

304,978. "MARY LAMB" AND DESIGN. Registered July 25, 1933. Benjamin Ansehl, doing business as Benjamin Ansehl Co., assignor to The Benjamin Ansehl Company. Renewed July 25, 1953, to The Benjamin Ansehl Company, St. Louis, Mo., a corporation of Missouri. Hand Lotions, Face Lotions, Perfumes, Brilliantine, Face Creams, Eye Shadow, Etc. Class 51.

305,126. REPRESENTATION OF BRUSH WITHIN CIRCLE DESIGN. Registered Aug. 1, 1933. Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed Aug. 1, 1953. Liquid and Paste Paints, Paint Primers, Paint Enamels and Lacquers, Varnishes. Class 16.

305,232. "UNDERWOOD" LINED FOR GOLD. Registered Aug. 8, 1933. Underwood Elliott Fisher Company. Renewed Aug. 8, 1953, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Multiple-Key-Operated Computing Machines, Also Combined Computing and Typewriting Machines. Class 26.

305,247. CREPE BRIONI. Registered Aug. 8, 1933. John Hall Marx Co. Renewed Aug. 8, 1953, to United Merchants and Manufacturers, Inc., New York, N. Y., a corporation of Delaware. Silk Piece Goods. Class 42.

305,405. NO. 1 BROAD STREET. Registered Aug. 15, 1933. John Wanamaker Philadelphia, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 15, 1953. Smoking Pipes. Class 8.

305,406. NO. 1 BROAD STREET. Registered Aug. 15, 1933. John Wanamaker Philadelphia, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 15, 1953. Smoking Tobacco. Class 17.

305,528. SARIDON. Registered Aug. 22, 1933. Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. Renewed Aug. 22, 1953. Analgesic Preparation Recommended for the Relief of Pain, Headaches, Neuralgia, Etc. Class 18.

305,563. INSUROK. Registered Aug. 22, 1933. The Richardson Company, Lockland, Ohio. Renewed Aug. 22, 1953, to The Richardson Company, Cincinnati, Ohio, a corporation of Ohio. Composition Panel Board. Class 12.

305,616. "SUPER X" AND DESIGN. Registered Aug. 22, 1933. Ezi. Dunwoody Co., Philadelphia, Pa., a corporation of Pennsylvania. Renewed Aug. 22, 1953. Peat Moss for Poultry and Animal Bedding (Poultry Litter), Peat Moss for Horticultural and Floral Use, Etc. Class 1.

306,067. UP. Registered Sept. 5, 1933. Underwood Elliott Fisher Company. Renewed Sept. 5, 1953, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Types for Typewriting Machines. Class 23.

306,231. PANDO. Registered Sept. 12, 1933. Williams & Humbert. Renewed Sept. 12, 1953, to Williams & Humbert Limited, London, England, a limited liability company of Great Britain. Sherry Wines. Class 47.

306,232. CEDRO. Registered Sept. 12, 1933. Williams & Humbert. Renewed Sept. 12, 1953, to Williams & Humbert Limited, London, England, a limited liability company of Great Britain. Wines. Class 47.

306,394. "DEMINO'S" ETC. Registered Sept. 19, 1933. Pacific American Fisheries, Inc., South Bellingham, Wash. Renewed Sept. 19, 1953, to Pacific American Fisheries, Inc., Bellingham, Wash., a corporation of Delaware. Canned Salmon. Class 46.

306,403. "ROBBIE BURNS" ETC. AND DESIGN. Registered Sept. 19, 1933. Macdonald, Greenlees Limited, Leith, Scotland. Renewed Sept. 19, 1953, to R. H. Thomson & Co. (Distillers) Limited, Edinburgh, Scotland, a limited liability company of Great Britain. Scotch Whisky. Class 49.

306,408. ROBBIE BURNS. Registered Sept. 19, 1933. Macdonald, Greenlees Limited, Leith, Scotland. Renewed Sept. 19, 1953, to R. H. Thomson & Co. (Distillers) Limited, Edinburgh, Scotland, a limited liability company of Great Britain. Whisky. Class 49.

306,506. REPELLO. Registered Sept. 19, 1933. Sidney Blumenthal & Co., Inc., New York, N. Y., a corporation of New York. Renewed Sept. 19, 1053. Pile Fabrics in the Piece. Class 42.

306,507. "AUBURN" AND DESIGN. Registered Sept. 19, 1933. Auburn Foundry, Inc., Auburn, Ind., a corporation of Indiana. Renewed Sept. 19, 1953. Stokers. Class 34.

306,522. MOLINO. Registered Sept. 19, 1933. Williams & Humbert. Renewed Sept. 19, 1953, to Williams & Humbert Limited, London, England, a limited liability company of Great Britain. Sherry Wine. Class 47.

306,523. RED TAPE. Registered Sept. 19, 1933. Baird-Taylor, Limited. Renewed Sept. 19, 1953, to Baird-Taylor Limited, Glasgow, Scotland, a limited liability company registered under the laws of Great Britain. Whisky. Class 49.

306,582. CALGON. Registered Sept. 26, 1933. The Buromin Company. Renewed Sept. 26, 1053, to Calgon, Inc., Pittsburgh, Pa., a corporation of Pennsylvania. Water Softening and Water Conditioning Chemical for Industrial, Laundry, and Semi-Industrial Use. Class 6.



306,696. "RAMSES" LINED FOR BLACK AND BLUE. Registered Sept. 26, 1933. Julius Schmid. Renewed Sept. 26, 1953, to Julius Schmid, Inc., New York, N. Y., a corporation of New York. Vaginal Jelly. Class 18.

306,997. DASH. Registered Oct. 10, 1933. Julius Schmid. Renewed Oct. 10, 1953, to Julius Schmid, Inc., New York, N. Y., a corporation of New York. Prophylactic Rubber and Membraneous Articles for the Prevention of Contagious Diseases. Class 44.

307,098. FABRICS AND FASHIONS. Registered Oct. 17, 1933. Apparel Arts Publications, Inc. Renewed Oct. 17, 1953, to Esquire, Inc., Chicago, Ill., a corporation of Delaware. Publication Issued Quarterly. Class 38.

307,545. ERMINCRUSH. Registered Oct. 31, 1933. Sidney Blumenthal & Co., Inc., New York, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Pile Fabrics in the Piece. Class 42.

307,580. "TRIBUTE" AND DESIGN. Registered Oct. 31, 1933. Lindsay Farm Bureau Fruit Assn. Renewed Oct. 31, 1953, to Lindsay Citrus Growers Association, Lindsay, Calif., a corporation of California. Fresh Citrus Fruits. Class 46.

307,588. "FLAV-OAK" AND DESIGN. Registered Oct. 31, 1933. A. Shniderman, doing business as Flav-Oak Manufacturing Company, Kansas City, Mo. Renewed Oct. 31, 1953. Charred Chips for Coloring and Flavoring Liquids. Class 1.

307,950. REPRESENTATION OF DOG'S HEAD AND DESIGN LINED FOR RED. Registered Nov. 14, 1933. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Nov. 14, 1953. Irradiated Dry Yeast. Class 46.

308,006. "PLEDGE" ETC. AND DESIGN LINED FOR GREEN AND BUFF. Registered Nov. 14, 1933. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Nov. 14, 1953. Coffee. Class 46.

# TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

442,826. "UNION MADE" AND DESIGN. Registered June 7, 1940. International Brotherhood of Electrical Workers, Washington, D. C. Electrical Equipment and Supplies—Namely, Conduits and Fittings for Conduits; Switchboards, Panel Boards, and Enclosed Switches; Etc. Class 21. Corrected as follows: The mark should appear as shown below instead of as in the registration—




575,112. GRO-COAT. Registered June 2, 1953. Berry Seed Company, and also doing business under the following names, Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa. Farm, Vegetable, and Flower Seeds. Class 1. Corrected as follows: In the statement, column 1, line 10, description of merchandise, after "FARM" insert a comma.

# TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Reg. No. 406,940. Registered May 9, 1944. A. P. de Sanno & Son, Inc., Phoenixville, Pa., a corporation of Pennsylvania. Republished by registrant.

**PARAFLEX**

For Abrasive and Grinding Wheels.
Claims use since Nov. 12, 1943.

## CLASS 16

### PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 105,610. Registered Aug. 10, 1915. (Classified in Class 52.) Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.
See this number in Class 52 for goods and mark.
Claims use since Dec. 13, 1913.

## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 144,207. Registered June 28, 1921. (Classified in Class 51.) Mulbens & Kropff, Incorporated, New York, N. Y. Republished by "4711" Limited, New York, N. Y., a corporation of New York.
See this number in Class 51 for goods and mark.
Claims use since the year 1878.

## CLASS 25

### LOCKS AND SAFES

Reg. No. 54,280. Registered June 26, 1906. Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y. Republished by Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Ohio.

SAFECRAFT

For Safes.
Claims use since July 9, 1904.

Reg. No. 54,710. Registered June 26, 1906. Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y. Republished by Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Ohio.

HERRING-HALL-MARVIN

For Safes.
Claims use since May 4, 1892.

Reg. No. 56,279. Registered Sept. 4, 1906. Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y. Republished by Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Ohio.

HERRING & CO., SAFES

For Safes.
Claims use since the year 1841.

Reg. No. 56,287. Registered Sept. 4, 1906. Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y. Republished by Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Ohio.

MARVIN SAFE CO.

For Safes.
Claims use since the year 1831.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 410,227. Registered Nov. 14, 1944. Precision Scientific Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

CHEM-O-TRONICS

For Titrometers, Colorimeters, Densitometers, and Photometers.
Claims use since June 8, 1944.

## CLASS 27

### HOROLOGICAL INSTRUMENTS

Reg. No. 303,275. Registered May 16, 1933. Western Clock Company, Peru, Ill. Republished by General Time Corporation, La Salle, Ill., a corporation of Delaware.

Hustler

For Clocks and Watches.
Claims use since Jan. 3, 1933.

## CLASS 39

### CLOTHING

Reg. No. 366,436. Registered Apr. 11, 1939. Kirby, Block & Fischer, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

SHANMONT

For Men's and Boys' Outer Apparel—Namely, Overcoats, Jackets, Suits, Trousers, Sweaters; Women's, Misses', and Children's Outer Apparel—Namely, Coats, Jackets, Suits, Dresses, Skirts, Sweaters, and Blouses.
Claims use since December 1931.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 119,831. Registered Dec. 11, 1917. Bernhard Ulmann Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address Long Island City, N. Y.

BUCILLA

For Ribbons, Toweling, Tapestry, and Piece Goods of Cotton, Linen, Silk, Artificial Silk, Wool, or of Combinations Thereof.
Claims use since about April 1913.

Reg. No. 302,838. Registered May 2, 1933. Acme Backing Corporation, Brooklyn, N. Y., a corporation of New York. Republished by registrant.

PERFRITE

For Processed Fabric, Backing Material Used in the Manufacture of Laminated Fabrics.
Claims use since about Nov. 1, 1932.

## CLASS 43

### THREAD AND YARN

Reg. No. 178,655. Registered Jan. 15, 1924. Bernhard Ulmann Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address Long Island City, N. Y.

BEAR BRAND

For Yarns and Threads of Worsted, Cotton, Artificial Silk, or of Combinations Thereof Useful for Art Needlework, Knitting, Crocheting, Embroidery, Weaving, Braiding, and Sewing.
Claims use since November 1873.



Reg. No. 375,674. Registered Feb. 27, 1940. Fleisher Yarns, Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address Long Island City, N. Y.

FLEISHER'S

For Worsted Yarns, Rayon Yarns, Cotton Yarns, and Yarns Composed of a Mixture of Worsted and Rayon.
Claims use since 1875.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Reg. No. 144,207. Registered June 28, 1921. Mulhens & Kropff, Incorporated, New York, N. Y. Republished by "4711" Limited, New York, N. Y., a corporation of New York.

4711.

For Cold-Cream, Vanishing Cream, Honey-Jelly Cream, Sachet-Powder, Toilet Powder, Face-Powder, Bath-Salts, Smelling Salts, Dental Preparations, Finger-Nail Preparations, and Hair Tonic.
Claims use since the year 1878.

Reg. No. 304,054. Registered June 20, 1933. Worcester Salt Co., New York, N. Y. Republished by Morton Salt Company, Chicago, Ill., a corporation of Illinois.

WORCESTER

IODIZED

The word "Iodized" is disclaimed apart from the mark as shown.
For Tooth Paste, Tooth Powder, Mouth Wash.
Claims use since Oct. 11, 1930.

## CLASS 52

### DETERGENTS AND SOAPS

Reg. No. 105,610. Registered Aug. 10, 1915. Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Republished by registrant.

Effecto

For Stains, Paints, and Enamels for Coating Wood, Metal, and Cement Surfaces, and Enameled Undercoatings for Wood or Metal Surfaces.
Claims use since Dec. 13, 1913.

Reg. No. 420,206. Registered Apr. 2, 1946. Botany Worsted Mills, Passaic, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.

CHALLIS

For Lanolin Soap.
Claims use since Oct. 11, 1944.

# REISSUES

AUGUST 18, 1953

Matter enclosed in heavy brackets [ ] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

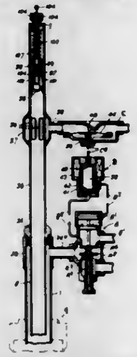
23,698

## FREE PISTON FOR USE IN EDUCTION PIPES OF APPARATUS FOR RAISING LIQUID IN WELLS

**Norman Fraser Brown, London, England, assignor to N. F. B. Displacement Pump Co. Limited, London, England**

**Original No. 2,555,112, dated May 29, 1951, Serial No. 6,828, February 7, 1948. Application for reissue May 1, 1952, Serial No. 285,431. In Great Britain February 13, 1947**

**39 Claims. (Cl. 103—52)**



36. *A gas lift plunger for raising liquid through an eduction pipe which comprises in combination, a body, outwardly expansible sealing means carried by the body externally thereof, means carried by the body including a part movable responsive to a fluid pressure applied thereto, and a force transmitting connection between said movable part and said sealing means so that said part can be moved by fluid pressure to expand said sealing means when said plunger is at the lower end of its return stroke.*

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23,699

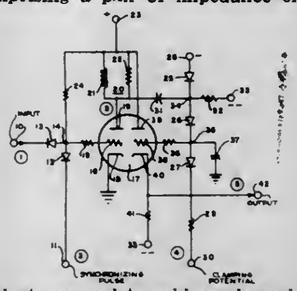
## PULSE DELAY CIRCUIT

**Byron L. Havens, Bergen County, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**

**Original No. 2,624,839, dated January 6, 1953, Serial No. 239,370, July 30, 1951. Application for reissue February 11, 1953, Serial No. 336,464**

**15 Claims. (Cl. 250—27)**

1. A pulse delay circuit arrangement comprising the combination of: first and second input terminals; means for developing a positive-going pulse when positive pulses are applied to both said input terminals; an electron discharge device having a control electrode, a cathode and an anode; means for applying said positive-going pulse to said control electrode; a load impedance connected between said anode and a source of anode potential; means for supplying said cathode with a potential negative with respect to said anode potential; a series network comprising a plurality of rectifier elements connected at one end to a potential negative with respect to said anode potential and at the other end to a source of clamping potential; a series network comprising a pair of impedance elements



connected at one end to said anode and at the other end to a potential negative with respect to said anode potential, the junction of said impedance elements being connected to the junction of a first pair of said rectifier elements; and an output terminal connected to the junction of a second pair of said rectifier elements.

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23,700

## DENTAL IMPRESSION COMPOSITION

**Edwin H. Lochridge, Glendale, Calif., assignor to Dental Perfection Company, a company of California**

**No Drawing. Original No. 2,568,752, dated September 25, 1951, Serial No. 764,247, July 28, 1947. Application for reissue January 21, 1953, Serial No. 332,581**

**28 Claims. (Cl. 18—47)**

1. [A] *An impression* composition [of matter comprising] *convertible by mixing with water to an elastic gel consisting essentially of* an alkali metal *alginate*, [salt of a weak organic acid selected from the group consisting of pectic, alginic, and methylcarboxycellulose acids,] sodium fluosilicate and lead orthosilicate.

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23,701

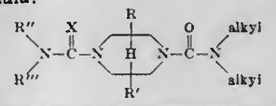
## SUBSTITUTED PIPERAZINES AND METHOD OF PREPARING SAME

**Hugh Wendell Stewart, Plainfield, N. J., and Ellen Grant Lee, Amherst, Va., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Original No. 2,520,479, dated August 29, 1950, Serial No. 76,853, February 16, 1949. Application for reissue December 31, 1952, Serial No. 329,152**

**9 Claims. (Cl. 260—268)**

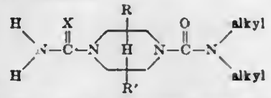
1. Compounds of the group having the general formula:



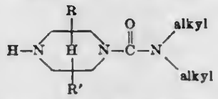
in which R and R' are members of the group

consisting of hydrogen and lower alkyl radicals, R'' and R''' are members of the group consisting of hydrogen and an aliphatic radical of 1 to 4 carbon atoms and X is a member of the group consisting of sulfur and imino radicals, *and R'' and R''' are not simultaneously hydrogen when X is sulfur.*

8. A method of preparing compounds having the general formula:



in which R and R' are members of the group consisting of hydrogen and lower alkyl radicals and X is [a member of the group consisting of sulfur and] *an* imino radical[s] which comprises reacting a compound having the following formula:



in which R and R' are as defined above with [a member of the group consisting of alkali metal thiocyanates,] cyanamide [and thiocarbamyl halides] and recovering the said 1-dialkylcarbamyl-4-substituted piperazine therefrom.

**23,702**

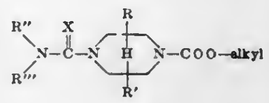
## 1-CARBALKOXY-4-SUBSTITUTED PIPERAZINES

**Richard Joseph Turner, Fanwood, and Hugh Wendell Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Original No. 2,535,971, dated December 26, 1950, Serial No. 54,816, October 15, 1948. Application for reissue December 31, 1952, Serial No. 329,153**

**5 Claims. (Cl. 260—268)**

1. A 1-carbalkoxypiperazine having the general formula:



wherein R and R' are members of the group consisting of hydrogen and lower alkyl radicals, R'' and R''' are members of the group consisting of hydrogen and alkyl radicals, and X is a member of the group consisting of oxygen, sulfur and imino radicals, *and R'' and R''' are not simultaneously hydrogen when X is sulfur.*

# PATENTS

GRANTED AUGUST 18, 1953

## GENERAL AND MECHANICAL

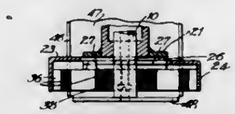
**2,648,840**

### SAFETY PAD FOR STUD DRIVING TOOLS

**Richard Farnsworth, Virginius R. Erickson, and Charles R. Webber, Portland, Oreg., assignors to Powder Power Tool Corporation, Portland, Oreg., a corporation of Oregon**

**Application February 29, 1952, Serial No. 274,216**

**8 Claims. (Cl. 1—44.5)**



1. In an explosively actuated stud driving tool having a barrel for engagement of the muzzle end thereof with a surface into which a stud is to be driven, a safety pad structure mounted on said tool about the muzzle end of said barrel for engagement with said surface, said pad structure comprising a frame disposed transversely of said barrel, backing means mounted on said frame for limited movement transversely of said barrel, and a resilient surface engaging pad carried by said frame and engaging said backing means.

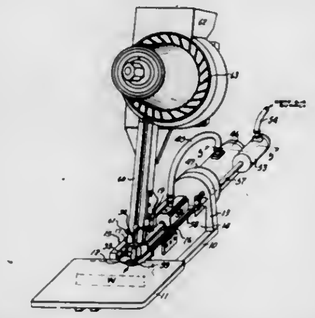
**2,648,841**

### NAIL GUN

**Milton B. Smith, Huntington, Earl C. Wallace, Andrews, and Eldon L. Krieg, South Whitley, Ind., assignors to Master Machinery Corporation, Huntington, Ind., a corporation of Indiana**

**Application July 29, 1952, Serial No. 301,572**

**11 Claims. (Cl. 1—46.4)**



1. A nailing machine comprising a nail holder for positioning a nail with respect to a work piece and mounted for movement to and from operative position, a driving pin for pressing the nail against the work piece after the holder has moved away from operative position, hammer means for recurrently striking the driving pin to drive the nail home, and means for successively actuating said nail holder, driving pin and hammer means.

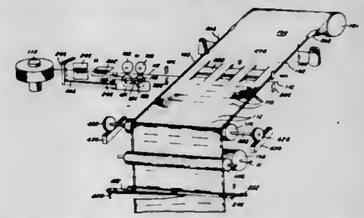
**2,648,842**

### MECHANISM FOR MAKING WIRE REINFORCED FABRIC SPRING LINERS OR THE LIKE

**Newton E. Shockey, Detroit, and Howard Wendall Wilkins, Centerline, Mich., assignors to Van Dresser Specialty Corporation, Van Dyke, Mich., a corporation of Michigan**

**Application May 17, 1950, Serial No. 162,496**

**18 Claims. (Cl. 1—200)**



1. In mechanism for making wire reinforced fabric spring liners having means for advancing a fabric web in successive steps separated by pauses and having mechanism operating in timed relationship with said means for feeding wire transversely through the web during the pause following each step, said last mechanism operating in timed relationship with said means for cutting off the wire thrust through the fabric and bending an end thereof over a part of the fabric web to hold the web in an extended position along said wire.

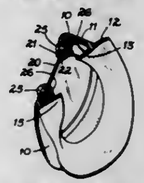
**2,648,843**

### GOGGLES

**Jack B. Hirschmann, Fairhaven, Mass.**

**Application January 10, 1951, Serial No. 205,327**

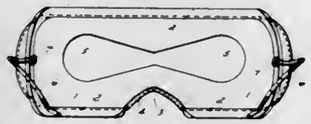
**2 Claims. (Cl. 2—14)**



1. A goggle of the single aperture and replaceable lens type for protection against gas, corrosive liquids and the like comprising a one-piece frame including a front rim portion and a portion extending rearwardly from said rim to define an eye chamber, a peripheral flange on said rearwardly extending portion adapted to fit closely against the face of the wearer to seal the junction therebetween, said rim defining a pair of eye apertures connected by a portion of reduced vertical extent above the nose of the adapted to be received within said rim and of wearer, a one-piece lens of flexible material complementary shape thereto, inner and outer spaced flanges on the inner periphery of said rim forming a channel for receiving the periphery of said lens, locking means extending through

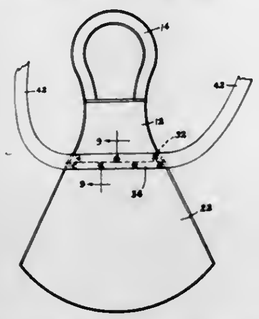
said flanges and said lens for securing said lens in compressed relation between said flanges to seal against the passage of gas around the edge thereof into the interior of said eye chamber, said locking means being releasable to provide for ready removal and replacement of said lens, said frame being entirely free of openings into said eye chamber except for said lens receiving portion to seal said eye chamber against the passage of gas from without, a head strap for supporting said frame on the head of the wearer, and means for securing the ends of said head strap to said frame entirely exteriorly of said eye chamber to maintain said eye chamber sealed against gas in position on the head of the wearer.

**2,648,844**
**ANTIGLARE EYESHADE**
**Charles V. Watson Brown, Brisbane, Queensland, Australia**
**Application November 29, 1947, Serial No. 788,844**
**In Australia January 13, 1947**
**5 Claims. (Cl. 2—14)**



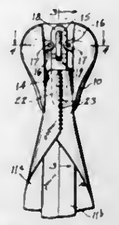
1. An improved anti-glare eye shade comprising a bulged concavo-convex shell of transparent rigid material shaped at its rim to conform to the normal contour of the forehead, temples, bridge of the nose, and cheeks, and characterized in that an aperture or apertures is or are provided in said shell in line with the eyes of the wearer, and a transparent protector material readily detachably secured in said aperture or apertures.

**2,648,845**
**COMBINATION BIB AND APRON**
**Harry L. Berman, Boston, Mass.**
**Application July 20, 1951, Serial No. 237,754**
**1 Claim. (Cl. 2—48)**



A combination apron and bib comprising an apron having a plurality of fastener elements along its upper margin, a bib having a body portion with a neck-encircling loop and a plurality of fastener elements along its lower margin, and a connecting member detachably joining the bib to the apron, said connecting member having end portions adapted to serve as apron strings and a mid portion in the form of a band of sufficient width to overlie all said fastening elements, said mid portion having on its rear face an upper and a lower series of fastening elements, said upper series being adapted and arranged to cooperate with the elements on said bib and said lower series of elements being adapted and arranged to cooperate with the elements on the apron to maintain said apron, bib and connecting member in assembled relation.

**2,648,846**
**PREFORMED NECKTIE**
**Anthony J. Titone, Corona, N. Y.**
**Application April 20, 1951, Serial No. 222,065**
**2 Claims. (Cl. 2—150)**



2. A preformed four-in-hand necktie comprising a body substantially triangular-shaped in elevation and oval shaped in cross section, said body being wide at the top with downwardly converging sides and having a lower end parallel to the top, said body having a vertically disposed slot which opens to the top and bottom ends thereof extended inwardly from the rear surface and having an upwardly extended hook secured to said body and positioned within the upper part of said slot, an elongated bar with elongated slots in the end portions in the slot of said body and positioned with the slot in one of said ends over the hook of the body, said bar having an offset intermediate section with the face of one end in a plane spaced from and parallel to a plane in which the face of the opposite end is positioned, and a fabric tie member secured to and depending from said bar.

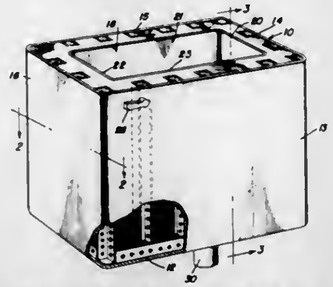
**2,648,847**
**NOVELTY CAP**
**John T. Crowder, Sherman Oaks, Calif.**
**Application May 10, 1951, Serial No. 225,627**
**2 Claims. (Cl. 2—199)**



1. In a cap of the type having a head piece and a visor adapted to assume an extended or an upright position, the combination with said visor of: a face including eyes, nose, and mouth, impressed upon the underside of said visor whereby when the said visor is placed in the upright position the said face becomes apparent, brackets attached to the underside of said visor above the eyes of said face, a rotatable shaft journaled in said brackets and an eyelid attached to said shaft between said brackets.

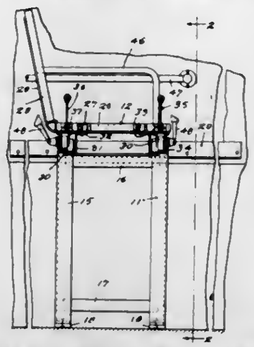


**2,648,848**
**TOILET TANK**
**Allen J. Wirkus, Fond du Lac, Wis.**
**Application January 29, 1951, Serial No. 208,322**
**5 Claims. (Cl. 4—68)**



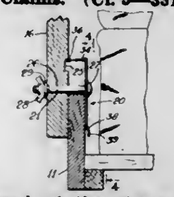
1. A water closet tank comprising an inner receptacle and an outer receptacle, said receptacles being spaced from each other to thereby constitute an insulation chamber, a cover located on said receptacles, insulating material disposed in said chamber, a plurality of channels forming air conductors disposed in said chamber and opening upwardly, said air conductors being provided with a plurality of apertures to permit air circulation in said insulating material, and a cover plate disposed at the upper open end of said chamber and having apertures therein into which said conductors open, and spacing means between the bottoms of said receptacles for maintaining said receptacles in spaced relation to one another.

**2,648,849**
**INVALID CHAIR FOR BATHTUBS**
**Mildred G. Webb and Glenn Wallace Seat, Nashville, Tenn.**
**Application April 3, 1952, Serial No. 280,312**
**6 Claims. (Cl. 4—185)**



1. An invalid chair for use in combination with a bathtub comprising a frame formed of a pair of horizontal rails extending transversely over said bathtub, a pair of vertical legs depending from the rail ends which extend exteriorly of said bathtub, connecting bars connecting said rails and legs together, a horizontal guide bar, said rails movably engaging said guide bar, a chair, rollers carried by said chair movably engaging said rails, and means holding said chair against movement on said rails.

**2,648,850**
**SIDE GUARD FOR BEDS**
**Robert E. Warren, Springfield Gardens, N. Y.**
**Application February 16, 1950, Serial No. 144,486**
**5 Claims. (Cl. 5—331)**



1. A bed guard of the character described, comprising at least one upright, at least one horizontal bar mounted on said upright, and at least one bracket connected to the upright by means of a bolt for mounting said upright on the side rail of a bed, said bracket having a main body portion with an opening formed therein for said bolt, at least one horizontally extending portion at its lower end projecting in one lateral direction therefrom and a vertically extending offset portion at its upper end projecting in the opposite lateral direction therefrom.

**2,648,851**
**SPRING STRIP FOR CONNECTING SPRINGS INTO GROUPS**
**Henry Hopkes, Grosse Pointe, Mich., assignor to No-Sag Spring Company, Warren Township, Mich., a corporation of Michigan**
**Application May 25, 1949, Serial No. 95,328**
**2 Claims. (Cl. 5—267)**

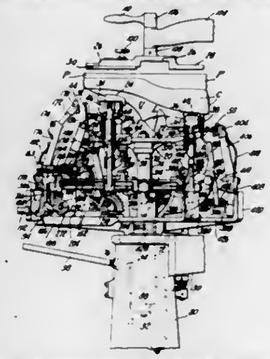


1. A sinuous spring wire strip for connecting springs into groups including successively opposite open loops lying in substantially the same plane with the adjacent loops aligned at each side of the strip along the entire length thereof, said strip having the outer ends of the alternate opposed loops thereof extending laterally beyond the outer ends of the adjacent loops, the outer ends of said alternate loops extending angularly away from said plane and being adapted to engage portions of springs to be connected, whereby the extremities of said outer loop ends can be bent or clinched over said spring portions and thereby connect said springs.

**2,648,852**
**PLATFORM LAYING AND PLATFORM COVER TURNING MACHINE**
**John T. Lancaster, Newton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application May 1, 1950, Serial No. 159,213**
**15 Claims. (Cl. 12—1)**

4. In a machine for use in the manufacture of shoes, an upstanding last pin for supporting an

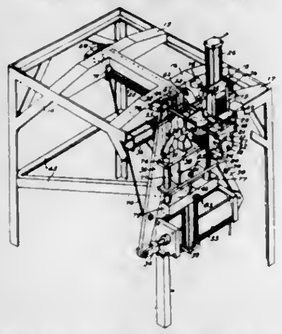
inverted last on which is mounted a partially completed platform shoe having an insole and an unturned platform cover, a rest for supporting the forepart of the shoe and last, a common support for the last pin and the rest, a guideway in which the support is movable heightwise, a plunger engageable with a platform unit which has been placed upon the insole, means for forcing the plunger down against the platform unit



to cause precemented surfaces of the platform unit and the insole to adhere, a spring acting on said support to oppose the pressure applied by the forcing means, and a plurality of horns supported against heightwise movement and engageable within the platform cover to turn the platform cover as said support moves down its guideway in response to the pressure applied by the plunger.

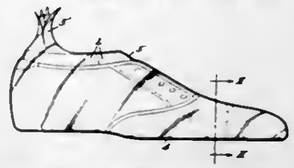
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**2,648,853**
**SHOE COUNTER PRODUCTION MACHINE**
**Henry Garyait and David D. Pettigrew, Milwaukee, Wis.**
**Application November 16, 1951, Serial No. 256,728**
**16 Claims. (Cl. 12—66)**



1. In a shoe counter production machine, means for supporting a stack of counter blanks, means for feeding the successive blanks from said stack and for initially bending the same into U-shape, a depending counter moulding plug adjacent to said bending means, and forming jaws cooperable with the bottom and opposite sides of said plug, a portion of said bending means being movable to transfer each U-shaped blank to the space between said plug and said jaws, and said jaws being separable sufficiently to permit free downward removal of the finished counters from said plug.

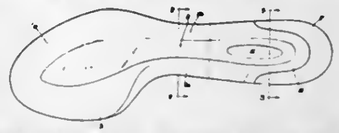
**2,648,854**
**MANUFACTURE OF SHOES**
**Akira Otsuka, Meguro-ku, Tokyo, Japan**
**Application October 13, 1950, Serial No. 189,940**
**In Japan February 22, 1950**
**1 Claim. (Cl. 12—142)**



A method of manufacturing shoes which consist in fastening a shoe upper to a last and insole, inserting the assembly loosely in a sack of stabilized rubber hydrohalide without completely cutting off communication of the sack interior with the atmosphere, steam-heating the stabilized rubber hydrohalide to a temperature and for a time sufficient to shrink same to closely embrace the surface of the contained assembly without causing cracking, restoring the assembly to normal atmospheric temperature and removing the fastenings, welting the upper while enclosed by the stabilized rubber hydrohalide sack, and thereafter removing the last.

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**2,648,855**
**METHOD FOR AUTOMATICALLY PREPARING OUTERSOLES**
**Douglas Midgley, East Malvern, Victoria, and Noel Hetherington Midgley, South Caulfield, Victoria, Australia**
**Application July 14, 1951, Serial No. 236,758**
**In Australia July 14, 1950**
**8 Claims. (Cl. 12—146)**



1. The method of producing outersoles for ladies shoes, comprising skiving a blank of minimum thickness to provide an outersole of selected thickness regardless of the original thickness and simultaneously skiving the marginal portions including skiving the inside and outside edges of the waist portion to selected thicknesses skiving the peripheral margin of the forepart to selected thicknesses and skiving from the heel portion a rearwardly projecting tongue to fit snugly within the heel seat of a heel.

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**2,648,856**
**FRICTION VIBRATION DAMPING MEANS FOR FLOOR POLISHERS**
**Jan van der Heem, Voorburg, Netherlands**
**Application March 17, 1948, Serial No. 15,449**
**In the Netherlands April 15, 1947**
**6 Claims. (Cl. 15—49)**

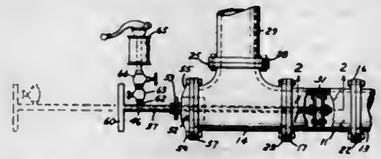


1. An electric floor polisher comprising a hood, a driving motor in said hood, a rotatable single rubbing element in said hood operatively connected to said motor, a handle pivotally connected to the hood, the pivot point being astern and on the side of the hood and thereby eccentric with respect to said hood and a friction member forming a vibration damper fixed to said hood in proximity to the pivot point of said handle for cooperating with said handle for damping vibrations of the polisher by friction between the damper and the handle when said handle is pivoted below a predetermined position, said vibration damper being between the rear of said handle and the bottom of said hood.



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**2,648,857**
**APPARATUS FOR CLEANING A SIGHT GLASS AND THE LIKE**
**Earl M. Kelly, Millbrae, and Samuel I. Bousman, Mountain View, Calif., assignors to Process Engineers Incorporated, a corporation of California**
**Application March 23, 1950, Serial No. 151,466**
**3 Claims. (Cl. 15—104.16)**

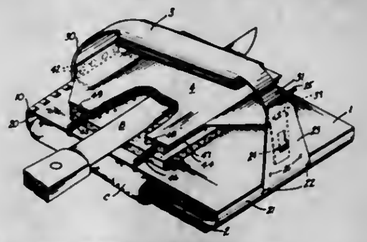


1. In a fluid line equipped with a sight glass, the combination which comprises a piston having a supporting disk and two wiper disks larger than the supporting disk having their edges adapted to be positioned in slidable engagement with the sight glass and disposed in spaced relationship with respect to one another on opposite sides of the supporting disk and fastened thereto, the piston being adapted to slide longitudinally within the sight glass, there being an annular space defined by the outer edge of the supporting disk and the sides of the wiper disks, a conduit for fluid passing through the three disks in the direction of the axis of the piston from one side of the piston to the other, an actuating tube fastened to the supporting disk and extending from the supporting disk in the direction of the axis of the piston with one end adapted to project through the fluid line, a conduit in the supporting disk connecting the actuating tube with the annular space, and means for introducing a solvent into the annular space through the actuating tube and the conduit in the supporting disk.

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**2,648,858**
**COMBINATION KNIFE WIPER AND RANGE CLEANER**
**Jack C. Paull, Seattle, Wash.**
**Application January 9, 1951, Serial No. 205,194**
**1 Claim. (Cl. 15—118)**

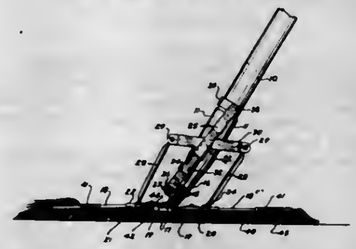
A cleaning device comprising two plates disposed in superposed generally parallel relationship, a handle at one side of said plates and spanning said plates, hinge means interconnecting one end of said handle and corresponding edges of said plates, a third plate disposed generally parallel to said two plates and secured to said handle at a location adjacent to said hinge means, latch means interconnecting the end of said handle and the edges of said three plates remote from said hinge means and operable to limit relative swinging of said handle and said plates, a cleaning pad covering the surface remote from said handle of the plate farthest from said handle and having edges inserted between said first two plates and clamped therebetween



by said latch means, a wiper pad secured on the side nearer said handle of the plate of said first two plates nearer said handle, and a cooperating wiper pad secured on the side remote from said handle of said third plate.

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**2,648,859**
**COLLAPSIBLE MOP**
**Oscar A. Flagstad, Minneapolis, Minn.**
**Application May 1, 1946, Serial No. 666,500**
**6 Claims. (Cl. 15—148)**



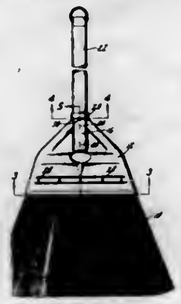
1. A mop comprising a handle and a collapsible head for holding a cleaning element, a metal member secured to the handle and having an elongated slot opening through opposite sides, the said head comprising a pair of frames pivoted at adjacent ends to the end of the metal member for flapping motions in cleaning the cleaning element, a pair of spaced equalizer bars disposed at opposite sides of the metal member and a pin connecting said bars and slidably mounted through the said slot, links pivotally connected between the ends of the equalizer bars and pivoted to the said frames at points spaced from the ends thereof, and means for releasably holding the pin against movement lengthwise of the slot to thereby hold the frames against flapping motion when the mop is in use.

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**2,648,860**
**BROOM WITH METAL HANDLE**
**Alfred L. Le Febvre, Windsor, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut**
**Application December 21, 1950, Serial No. 202,117**
**2 Claims. (Cl. 15—171)**

1. In a broom, the combination of a broom body comprising fibers, a head comprising two oppositely disposed plates in fixed relationship with each other and having their lower portions embracing and fitting the upper portion of the

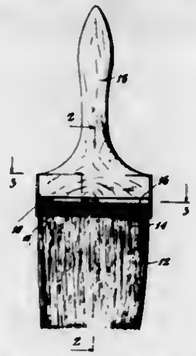
head, the upper portions of the said plates being shaped to provide two oppositely disposed at least partly cylindrical longitudinal sockets, means for connecting the lower portion of the plates of the head with the upper portion of the broom body, and a longitudinal metallic cylindrical handle the lower portion of which is within and



permanently fits both of the said sockets, the opposite sides of the said handle being welded respectively to the sockets of the two plates so that the handle is rigidly connected with the plates and so that the plates are rigidly connected with each other by means of the said handle.

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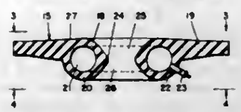
**2,648,861**
**BRUSH AND METHOD OF MAKING**
**Kenneth V. Hardman, Upper Montclair, and Arthur J. Lang, Cedar Grove, N. J., assignors to H. V. Hardman Company, Inc., a corporation of New Jersey**
**Application April 13, 1949, Serial No. 87,186**
**9 Claims. (Cl. 15—192)**



1. In setting synthetic bristles tightly within a ferrule, the method which comprises assembling thermoplastic bristle butts in uncoated condition within a thermoplastic ferrule having a temperature coefficient of shrinkage at least equal to that of the plastic of the bristle butts, applying over the assembled butts a flowable solvent for the bristle butts and for the ferrule, the solvent being substantially non-reactive chemically with the plastic bristles and ferrule, forming therewith solutions that are flowable at elevated temperatures and hard when cooled, and being added in quantity adequate to wet all the bristle butts and the inner surface of the surrounding portion of the ferrule but less than sufficient to dissolve completely either one thereof, then warming the solvent treated assembly to the temperature of softening of the exteriors of the butts and ferrule by the solvent, and then cooling the resulting product to room temperature, so that the softened material hardens and the ferrule and bristles are united in an integral structure.

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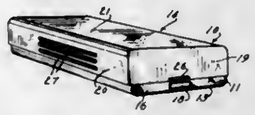
**2,648,862**
**PIPE WIPER**
**Byron H. Barnes, Los Angeles, Calif.**
**Application May 27, 1946, Serial No. 672,459**
**3 Claims. (Cl. 15—210)**



2. A pipe wiping device adapted to be floatingly disposed below an abutment and adapted to receive a pipe to be wiped, comprising an annular member formed of a relatively stiff material having an inner portion in the form of a resilient tubular ring and having an outer portion in the form of a radially projecting flange extending around the upper half of the inner portion whereby the upper surface of said member is substantially planiform for engagement with an abutment.

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**2,648,863**
**BLACKBOARD ERASER**
**Earl N. Darling, Pocatello, Idaho**
**Application October 13, 1950, Serial No. 189,995**
**2 Claims. (Cl. 15—231)**



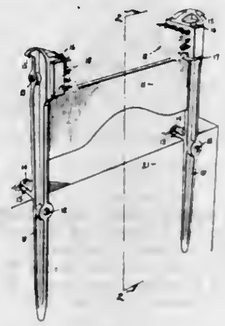
1. A pad holding and gripping device comprising a base member having upwardly disposed vertical side and end walls and a bottom wall, a pad member positioned on the bottom wall and extended up and over the side walls to position the terminal ends of the pad upon the inner face of respective side walls, and a gripping member having a top wall, vertical end walls and side walls of such dimensions as to encompass the side and end walls of the base member and portions of the pad, and said gripping member further having a vertical wall spaced with respect to respective side walls thereof adapted to bindingly engage portions of the pad positioned on the inner faces of the side walls of the base member, said spaced wall being of a length less than the adjacent side walls of the gripping member.

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**2,648,864**
**SHOE SCRAPER**
**Tracy R. Wiltse, Des Moines, Iowa**
**Application December 1, 1949, Serial No. 130,521**
**1 Claim. (Cl. 15—237)**

In a device of the class described, two vertical spaced apart spike members each having pointed lower ends adapted to be driven into a holding medium, a vertical web scraper bar having its upper edge extending horizontally and extending between said two spike members and positioned below the extreme top planes of said spike members, a horizontal brush receiving and holding channel on the inside top portion of each of said spike members and located immediately above said scraper bar, a laterally extending lug on each of said spike members located in a plane below said scraper bar adapted to engage a horizontal object for holding said spike members respectively against movement relative to

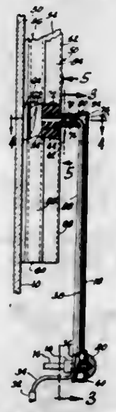




said object in at least one direction, each of said spike members having a transverse hole in its length and below the plane of its lug adapted to receive a fastening means for securing said spike members respectively to a vertical object; said spike members, scraper bar, said brush receiving holding channels and said laterally extending lugs being integrally formed and of one piece.

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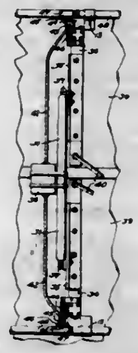
**2,648,865**
**WINDSHIELD WIPER**
**Harry B. Gordon, Glenview, and Aaron Gordon, Chicago, Ill.**
**Application May 15, 1946, Serial No. 669,901**
**4 Claims. (Cl. 15—250.4)**



1. A windshield wiper construction, comprising a supply of air under pressure, a container having a windshield-treating liquid therein, a substantially channel-shaped windshield wiper arm, means including a rock shaft for oscillatably mounting said arm at the weather side of a windshield, a hollow squeegee unit having ports directed toward the windshield, a conduit extending from said liquid to said squeegee unit, said conduit including a resilient metal tube coiled about said shaft and torsionally yieldable in response to oscillation of said arm and extending beyond the coiled portion along and within said arm, said tube having a goose neck adjacent the free end of said arm, said neck terminating in a hollow spherical end having a discharge opening, said squeegee unit including a yieldable wiping element having a ball socket expansible and contractible to releasably admit and embrace said ball with a substantially liquid-tight and air-tight fit, said arm having a part shielding the upper side of said gooseneck, cooperating means on said unit and arm for holding them in predetermined relation, and means for selectively connecting said air supply to said container or to said conduit, whereby said air may force said liquid to said squeegee unit or said air may pass directly to said squeegee unit, as desired.

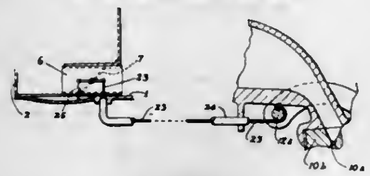
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**2,648,866**
**AUTOMATIC WINDOW CLEANER**
**Gregory A. Christos, Charleston, S. C.**
**Application May 23, 1947, Serial No. 750,097**
**1 Claim. (Cl. 15—250.4)**



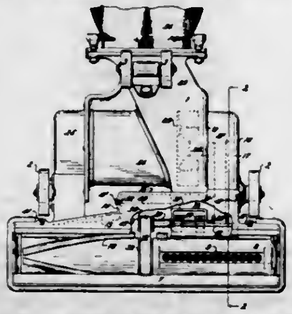
The combination with a window construction including a frame and a pair of pane-containing sashes mounted in said frame in different planes therein, of a cleaning apparatus comprising a horizontally extending rod removably mounted at the upper end of said frame, a like rod horizontally extending and removably mounted at the lower end of said frame, a bracket slidably mounted upon each of said rods, an elongated casing affixed to each of said brackets and each extending in spaced parallel relation to one of said window panes, a perforated hollow squeegee carried by each of said casings and each being in contact with one of said panes, a longitudinally extending slotted extension upon each of said casings, a U-shaped member having a bight portion and a pair of legs, an extension for each of said legs adjustably connected to its respective leg at one end and adjustably connected with one of the slotted extensions at its other end, a roller shaft extending vertically outwardly from each of said brackets, a roller of yieldable material mounted upon each of said shafts and frictionally engaging one of said rods, a motor mounted upon the bight portion of the U-shaped member, a gearing mounted in each of said brackets and connected with the respective roller shafts, a flexible shaft connecting the motor with each of said gearings, and a hose for supplying fluid to the interior of each of the casings.

**2,648,867**
**CURRYING MACHINE FOR CONNECTION WITH VACUUM SYSTEMS**
**Sven Johan Erling, Nockeby, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden**
**Application April 19, 1947, Serial No. 742,554**
**In Sweden May 10, 1946**
**8 Claims. (Cl. 15—319)**



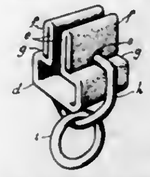
1. In a currying machine having a suction nozzle adapted to be applied to the body of an animal, the combination of a pneumatic pipe line for connecting the nozzle to a source of subatmospheric pressure, a filter in said line and adapted to remove dust from the air passing through the line from the nozzle, a normally closed valve in said line on the opposite side of the filter from the nozzle, a valve control element movably mounted on the nozzle and having a protruding part engageable with and displaceable by the animal body when the nozzle is applied to said body, to move the control element relative to the nozzle, and an operative connection between said control element and the valve, whereby said valve is automatically opened when the nozzle is applied to the body of the animal.

**2,648,868**
**SUCTION CLEANING DEVICE HAVING AGITATOR DRIVE BELTING IN AIR DUCT AND CONVERSION PASSAGEWAY INDEPENDENT OF BELTING**
**Warren A. Humphrey, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application June 15, 1949, Serial No. 99,204**
**3 Claims. (Cl. 15—337)**



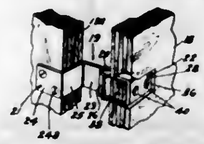
1. Suction cleaning apparatus comprising a casing structure defining a suction nozzle, a suction air fan chamber and an air duct communicating the air inlet portion of said fan chamber with the central portion of said nozzle, a motor fan unit in said casing having a fan in said fan chamber, a shaft on said fan extending into said air duct, a rotary cleaning element mounted in said nozzle; mechanism for driving said cleaning element from said fan shaft including a first belt in said air duct arranged to be driven from said fan shaft, a second belt in said air duct arranged to drive said rotary cleaning element, said belts being in spaced relation to each other, and mechanism for conveying driving motion from said first belt to said second belt having spaced belt connecting portions in said air duct and an intermediate portion which is air sealed from said air duct; and means forming a converter passageway from the top central portion of said casing structure at the front thereof into said air duct between the portions of said air duct housing said belts and adjacent the portion of said driving motion conveying mechanism sealed from said air duct whereby a converting tool may be inserted into said air duct to seal the same from said nozzle at a point in said air duct which does not house any part of said driving mechanism.

**2,648,869**
**SLIDING SHOE CURTAIN SUPPORT**
**George Frederick French and Roger French, Manchester, England**
**Application October 31, 1950, Serial No. 193,056**
**In Great Britain November 4, 1949**
**13 Claims. (Cl. 16—93)**



1. A curtain rail glider comprising a strip of stiff, deformable material and a sleeve of textile fibrous material surrounding and encasing said strip, said strip being bent so that it is substantially U-shaped in form with its arms having inwardly extending portions located outwardly from its base, inwardly extending shoulders formed on said inwardly extending portions and adapted to embrace and form running surfaces complementary to a flange of a curtain rail, the terminal ends of said arms being so positioned that when the glider is mounted on a curtain rail, said terminal ends are separated from the shank of the rail by the inner portions of said arms.

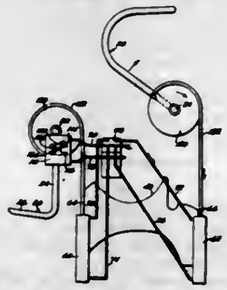
**2,648,870**
**OFFSET HINGE CONSTRUCTION FOR LAMINATED PLYWOOD CUPBOARDS AND DOORS**
**Dudley R. Wilhelmi, Tacoma, Wash.**
**Application May 31, 1950, Serial No. 165,285**
**1 Claim. (Cl. 16—135)**



A door hinge comprising a door carrying wing, a mounting wing, said mounting wing consisting of a metal strap having two longitudinally spaced apart rightangular transverse, reversely directed bends in its midlength portion thus producing offset longitudinally extending, oppositely directed end runs and between said bends an intervening, transverse run which extends at a right angle to each of said end runs, screws extending through one of said end runs and adapted to attach such end run to the outer portion of the inner face of an end wall of a cupboard so that said intervening run extends transversely across the outer edge of said end wall, the other end run of said mounting wing having a curled outer end portion; said door carrying wing consisting of a rectangular plate carrying at one end two arms which are spaced apart the width of the plate and project rightangularly from the same face of the plate, said arms having apertured outer end portions, and a hinge pin extending through the apertures of said arms and through the aforesaid curled wing portion thus swingably fastening together the two wings of the hinge, said two arms being adapted to be countersunk into kerfs across the edge of a door and said plate being adapted to be attached to and countersunk into the adjacent face portion of said door to a depth of at least twice the thickness of the plate, so that when said door is swung to a closed position in relation to the cupboard the countersink in the door which contains said plate will also provide a clearance for the aforesaid intervening run of the mounting wing of the hinge, allowing the attached portion of the closed door to abut flatwise against the outer edge of said end wall of the cupboard.

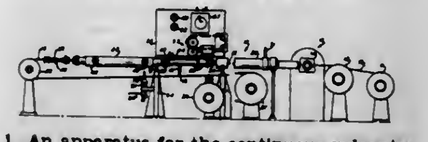


**2,648,871**
**CRADLE CONTROL FOR CARCASS DEHAIRING DEVICE**
**Carl Oscar Schmidt, Jr., Cincinnati, and Frederick A. Zaenkert, Greenhills, Ohio, assignors to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a corporation of Ohio**
**Application February 6, 1952, Serial No. 270,126**
**4 Claims. (Cl. 17—16)**



1. In combination with a carcass dehairing device of the type which includes a plurality of laterally spaced sets of dehairing members whose outer ends describe an annular path of travel, a carcass cradle comprising a plurality of similar, laterally spaced elements adjacent ones of which are spaced to provide access of said dehairing members to a carcass supported on said cradle, support means, means pivotally mounting said cradle on said support means for movement between lowered scraping and raised gambrelling positions relative to said dehairing members, a carcass loading frame, and means pivotally mounting said frame on said support means for movement between lowered loading and raised unloading positions relative to said carcass cradle; of a source of fluid under pressure, a pair of cylinders each including a reciprocable piston rod, one of said cylinders being associated with said cradle and the other with the loading frame, separate valving means for each cylinder for controlling the flow of fluid to opposite ends of the respective cylinders, means connecting one piston in driving relationhip with the cradle, and other means connecting the other piston in driving relationship with the loading frame, a stationary wall portion on said support means provided with a guide slot of H pattern, a manually operable lever pivotally mounted at one end on said support means and shiftable in said guide slot, control means operatively associated with each valving means extending to opposite sides of said guide slot, said lever when shifted laterally from the intermediate laterally extending portion of the guide slot into one or the other of the parallel legs of the guide slot being in position to operate the adjacent valve control means, said lever when positioned in the intermediate laterally extending portion of said guide slot being out of engagement with both of said valve control means, and said lever being shiftable from one valve actuating position to the other only after first passing through said intermediate laterally extending portion of the guide slot.

**2,648,872**
**CONTINUOUS VULCANIZING APPARATUS**
**August Stiegler, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application November 8, 1949, Serial No. 126,091**
**13 Claims. (Cl. 18—6)**

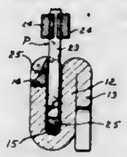


1. An apparatus for the continuous vulcanization of a vulcanizable covering surrounding a continuously advancing core, which comprises an elongated tube through which the core passes continuously, means for supplying a high temperature, high pressure fluid to a portion of the tube first encountered by the core to vulcanize the covering thereon, means for supplying a low temperature cooling fluid under pressure to a portion of the tube subsequently encountered by the core to cool the vulcanized covering, means for controlling the relative pressures of the fluids in the tube, thermo-sensitive means subject to and having a length dependent upon the temperatures of the fluids at a predetermined point in the tube, means for amplifying the motion resulting from changes in the length of the thermo-sensitive means, due to changes in the temperatures of the fluids at said predetermined point in the tube, and means actuated by the motion amplifying means for regulating the pressure controlling means so as to maintain the pressures of the vulcanizing fluid and the cooling fluid in the tube substantially equal.

**2,648,873**
**FALLER BAR**
**George L. Kluter, Shaker Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio**
**Application November 12, 1948, Serial No. 59,541**
**5 Claims. (Cl. 19—129)**

1. A faller bar for a drafting machine comprising a comb back bent up of sheet metal to form a comb-receiving groove with integral bent tabs closing the ends of the groove, guide members welded to the ends of said comb back, and

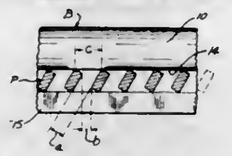
a comb of drafting pins soldered in the groove of said back, one longitudinal wall of said groove



being narrower than the other to facilitate application of solder to the base of said comb.

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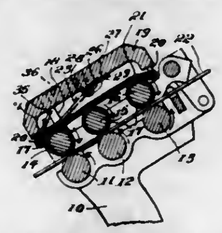
**2,648,874**
**FALLER BAR WITH CANTED PINS**
**James R. Longstreet, Maple Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio**
**Application January 11, 1949, Serial No. 70,211**
**2 Claims. (Cl. 19—129)**



1. A faller bar for gill boxes comprising a metal bar having a relatively narrow groove along one edge thereof, and a plurality of flat pins having bases disposed in spaced relation in said groove, with the major cross-sectional axes of said pins being parallel and canted relative to the axis of said groove, the bases of said pins being generally rectangular with diagonally opposite corners aligned by the walls of said groove, and solder bonded to the side and edge portions of the bases of said pins disposed in the groove and to the walls of the groove in the zones between the pins as well as in the zones adjacent the edges of the pins.

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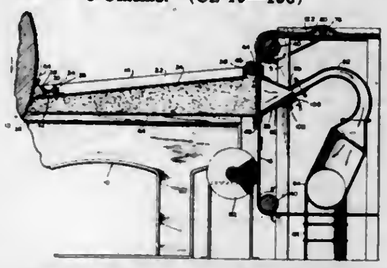
**2,648,875**
**CLEARER TENSIONING DEVICE**
**John D. Gibson, Lockhart, S. C.**
**Application March 27, 1951, Serial No. 217,837**
**2 Claims. (Cl. 19—139)**



1. In a clearer tensioning device, the combination with a frame, a lug projecting upwardly from said frame, a plurality of rollers supported on said frame, a clearer bar mounted above said rollers and provided with a slot for receiving said lug, and an endless clearer band supported by said bar for engaging said rollers, of a spring means for urging said clearer band into engagement with said rollers, said spring means comprising a spring member pivotally connected to the bottom of said clearer bar, a coil spring circumposed on said member, and means for preventing said clearer bar from accidentally moving upwardly from said rollers, said last-named means comprising a latch having an offset end secured to said bar, there being a cutout in said lug for receiving the other end of said latch.

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**2,648,876**
**METHOD AND MACHINE FOR PRODUCING UNWOVEN FABRICS**
**Joe Phillips, Fairfax, and Verna L. Payne, Plant City, Shawmut, Ala., assignors to West Point Manufacturing Company, Shawmut, Ala., a corporation of Alabama**
**Application September 19, 1950, Serial No. 185,590**
**6 Claims. (Cl. 19—156)**

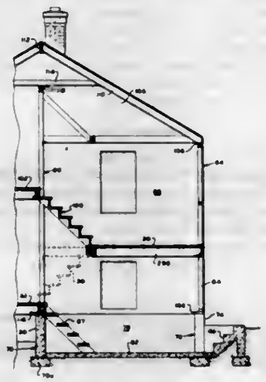


1. The method of forming a fibrous web which comprises the steps of attenuating a body of fibers onto a toothed moving fiber carrying instrumentality, removing the fibers from the teeth of said fiber carrying instrumentality by means of an air stream moving substantially tangentially thereto and in the same direction, the velocity of said air stream at the point of fiber removal being at least four times the velocity of said fiber carrying instrumentality, passing said air stream and the fibers suspended therein to a foraminous fiber receiving member through a confined uninterrupted path, passing said air stream through said foraminous fiber receiving member whereby said fibers form a web thereon, and removing the web from said member.

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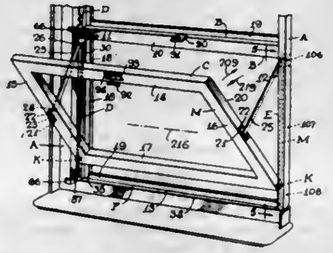
**2,648,877**
**BUILDING CONSTRUCTION**
**Howard P. Vermilya, Princeton, N. J., assignor to American Houses, Inc., New York, N. Y., a corporation of Delaware**
**Application October 23, 1948, Serial No. 56,138**
**9 Claims. (Cl. 20—2)**

1. A dwelling comprising a foundation having an outer wall-supporting portion and an inner wall-supporting portion, said inner wall-supporting portion separating said foundation into two substantially equal foundation areas, one of said foundation areas being unfloored and only partly excavated and the other of said foundation areas being provided with a basement floor spaced from the upper edge of said foundation by a distance approximately equal to the height of a half story of said dwelling, a plurality of outer wall panels mounted on said outer wall-supporting portion and connected together to provide a continuous outer wall-supporting structure, a plurality of inner wall panels, each greater in height by approximately one half story than said outer wall panels and mounted on said inner wall-supporting portion and connected together to provide an inner wall, said inner and outer wall-supporting structures having mounted therebetween supporting members for mounting a plurality of floors, said floors being vertically spaced on opposite sides of said inner wall by a distance of approximately a half story.



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**2,648,878**
**COMPLETELY REVERSIBLE WINDOW**
**Edmond Albano, New York, N. Y.**
**Application January 6, 1947, Serial No. 720,440**
**10 Claims. (Cl. 20—42)**



2. In combination with a window frame having a completely reversible swinging sash, a metal fixture taking the form of an elongated channel of rectangular cross section located between the sash and the frame being provided with a guide slot for the sash, attachment means mounting the channel on the frame between the frame and the sash, swinging mounts for the sash having a pivotal connection to said channel, said pivotal connection being positioned to one side and out of alignment with and inside of the end of said guide slot, and latching means to hold said sash in open or closed position, said latching means including a swinging spring biased lever having a plurality of recesses at intervals to engage the sash.

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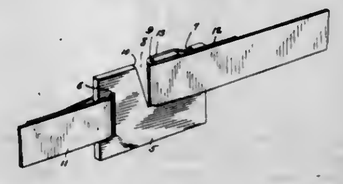
**2,648,879**
**TYING AND FASTENING DEVICE**
**Herman W. Patterson, Overland Park, Kans.**
**Application July 31, 1950, Serial No. 176,898**
**2 Claims. (Cl. 24—16)**

1. A tying and fastening device comprising an endless band of elastic material, and a knob of the elastic material disposed at a position outward and beyond the periphery of said band, and a thin neck of the elastic material connecting the band and the knob, said knob extending in both directions from said neck and having a lug fixed at each end and extending toward the band.



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**2,648,880**
**BALE BAND TIE BUCKLE**
**William E. Brown, Patricia, Tex.**
**Application March 21, 1951, Serial No. 216,685**
**1 Claim. (Cl. 24—23)**



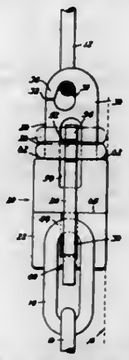
In a bale tie buckle, a body constructed of sheet metal material of substantially rectangular shape having a strap opening formed adjacent to one end thereof and elongated longitudinally of one edge of the body, the ends of the strap opening being equi-distantly spaced from the side edges of the body, said body also having spaced slots extending inwardly from one side edge thereof terminating on a line drawn through the horizontal axis of the body, one of said slots being disposed adjacent to one end of the body, the other slot being disposed adjacent to the center of the body and including a straight edge and an edge disposed at an oblique angle with respect to the straight edge providing a central slot with a wide entrance, and said opening and slots adapted to receive and hold the ends of the bale band used with the buckle, to said buckle.

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**2,648,881**
**TIRE CHAIN FASTENER**
**William H. Devonshire, Williamsville, N. Y., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y.**
**Application June 11, 1948, Serial No. 32,442**
**2 Claims. (Cl. 24—69)**

1. A tire chain fastener including an elongated body member comprising a metal plate of generally rectangular form, said body member having an eye portion at one end for permanent connection with one end link of a tire chain strand when disposed alongside a tire wall, a latch lever pivotally mounted upon said body member adjacent the other end thereof, said lever being adapted to be hooked into a link at the opposite end of said tire chain strand and then pivotally closed relative to said body member, whereby to interconnect the opposite ends of said chain strand, said lever being formed at its free end

at one side thereof with a hook portion, said body member having a reduced width end portion providing a longitudinally extending inwardly offset side edge portion at the side edge thereof that engages the tire when assembled thereon, with a shoulder at the inner end thereof, said inwardly offset side edge portion extending in the region of the hooked end portion of said lever when the lever is disposed alongside the body member, and a lever keeper link slidably embracing said reduced end portion and freely slidable therealong into and out of engagement with the hooked end portion of the lever, said keeper link



having a side wall portion extending around said inwardly offset side edge portion of the reduced end portion of a thickness less than the distance between the inwardly offset side edge portion and the plane of the adjacent side edge of the body member so that said side wall of the keeper link is disposed inwardly of the plane of said side edge of the body member that engages the tire and is freely slidable without interference by rubbing against the tire side wall, the rearward sliding movement of the keeper link on the reduced end portion of the body member being limited by said shoulder on the body member.

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**2,648,882**
**REMOVABLE BUTTON MEMBER**
**Harold S. van Buren, Jr., Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application July 13, 1950, Serial No. 173,552**
**2 Claims. (Cl. 24—109)**



1. A removable button structure comprising a drawn sheet metal part of dished shape having a central portion, sloping sides extending angularly therefrom, and a peripheral rim portion spaced from said central portion, said peripheral rim portion being suitable for being secured to an ornamental button element, said sides sloping inwardly from said rim portion and having a curved transverse cross-section, said central and rim portions and said sides having marginal edges defining opposing apertures in said sides, said central portion being disposed in a plane spaced from said rim portion and including tongues at the opposite ends extending over said apertures and beyond the marginal edges of said sides, and providing a substantially smooth bar for cooperative engagement in a socket member having opposed spaced plates, one of which having a keyhole type aperture for receiving said bar when oriented in one direction with respect thereto and for retaining it when oriented in other directions.

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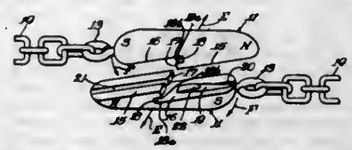
**2,648,883**
**WEDGE TYPE WIRE CONNECTOR**
**Henry P. Dupre, Croton-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York**
**Application September 15, 1949, Serial No. 115,880**
**3 Claims. (Cl. 24—126)**



1. A wire connector comprising a tubular sleeve having a cylindrical portion and an open end portion, said open end having a cone-shaped internal surface, a gripping jaw slidably mounted within said open end portion and having a tapered outer surface to engage said cone-shaped internal surface and a serrated surface to grip a wire inserted therein, an initial wire gripping body slidably mounted within the cylindrical portion having normally inwardly resiliently biased projecting fingers extending therefrom to initially grip a wire inserted into the connector, said gripping body having a smooth cylindrical wall closely aligned with the inner surface of the cylindrical portion of the sleeve, whereby the gripping body may be axially displaced within the cylindrical portion and be maintained in alignment therein.

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**2,648,884**
**MAGNETIC CLASP**
**Newton Elston Loofboro, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin**
**Application December 2, 1949, Serial No. 130,708**
**4 Claims. (Cl. 24—201)**



1. A magnetic clasp comprising a pair of elongated sections formed of magnetic material at least one which sections is permanently magnetized, said sections having face portions for face-to-face contact, inclined at a small angle relative to the longitudinal axis of the clasp with the ends of the face portions closely adjacent the longitudinal axis, each section having keying and connecting means secured therein including a shank disposed substantially coaxial with the longitudinal axis of the clasp with a connecting element on its outer end beyond the end of the respective section and with its inner end projecting from the said face portion of the section, each section having a longitudinal



groove in its said face portion for receiving the projection on the other section whereby the sections are permitted relative longitudinal sliding movement but restrained against relative transverse sliding movement, said section face portions having transverse tongue and groove elements respectively interengageable and effective for preventing relative sliding movement of the sections longitudinally outwardly.

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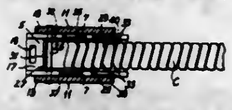
**2,648,885**
**SNAP FASTENER SOCKET ASSEMBLY**
**Walter I. Jones, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application June 1, 1951, Serial No. 229,505**
**3 Claims. (Cl. 24—216)**



1. A snap fastener socket member for snap fastener engagement with a shouldered stud, comprising a base for attachment to a supporting sheet and an upstanding circumferential wall disposed on the base, opposing portions of said wall being substantially vertical to the plane of the base, said other opposing portions of the well between said vertical portions being inclined inwardly toward each other and having shoulders spaced from the base and shaped to form an elliptical stud-receiving opening, said wall having opposing vertical slots disposed on said opposing vertical portions thereby forming opposing stud-engaging wall segments defining an elliptical stud opening, each wall segment having an individual wall support member extending downwardly from the upper ends of each wall segment in spaced relation to the wall toward the plane of the base, and a support flange disposed on the lower end of the wall support member for bearing against the support to resist crushing forces applied to the socket.

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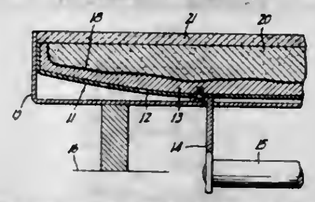
**2,648,886**
**END-ATTACHING DEVICE**
**Eugen F. Prestinari, Short Hills, and John F. Sand, Newark, N. J., assignors to Gemex Company, Union, N. J., a corporation of New Jersey**
**Application January 3, 1950, Serial No. 136,557**
**10 Claims. (Cl. 24—248)**



1. An end-attaching device for a snake chain or the like comprising a channel member of U-shape in cross section thereby having a web, side flanges, and an open side, a U-shaped gripper pivoted between the flanges of the channel member adjacent one end of the latter with its arms extending along the insides of the flanges of the channel member and spaced apart to receive the end of a snake chain or the like therebetween, each arm of the gripper having an inwardly directed tooth at its end, and a closure for the open side of the channel member pivoted on the pivotal connection of the gripper and the channel member.



**2,648,887**
**METHOD AND APPARATUS FOR APPLYING WALL FINISHES**
**Jerome H. Reichard, Lockport, N. Y.**
**Application September 1, 1950, Serial No. 182,728**
**6 Claims. (Cl. 25—1)**

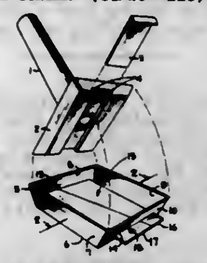


1. The method of applying a surface finish to simulate stone or the like which comprises depositing a layer of plastic stone-simulating cementitious material upon a molding surface, depositing a second layer of mortar-simulating cementitious material of greater area on the first layer whereby the second layer projects marginally beyond the first layer, and then jointly applying said layers against a building surface in such manner as to expose the marginal portions of the second layer to simulate mortar-joint lines.

4. In apparatus for molding and applying multiple layers of plastic material of different colors to a building surface to simulate stone or the like, an element comprising a relatively shallow stone-simulating mold, a casing for receiving said molding element comprising a bottom wall and side walls of substantially greater depth than said mold, whereby said mold may be moved into said casing with its outer marginal edges substantially below the plane of the outer edges of the side walls of said casing, and means for preliminarily supporting said casing and said mold with the marginal edges of the latter exposed with respect to the casing side walls to permit leveling off a preliminary layer of plastic material in said mold.

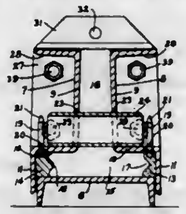
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**2,648,888**
**HEADGATE FORM**
**Lyle F. Walton, Rupert, Idaho**
**Application July 14, 1951, Serial No. 236,767**
**1 Claim. (Cl. 25—118)**



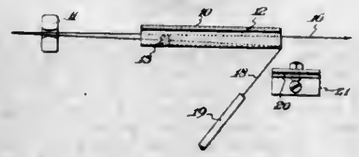
A concrete headgate form comprising a rectangular pan, said pan having relatively shallow sides and having a flattened bottom with two spaced parallel slit-and-bends, the bends being turned inwardly of the pan and terminating at their ends at opposite sides respectively of the pan, said opposite sides each having one slot in registry with the inturned edges of said bends, and a sheet-like plate extending through both slots and resting upon the inturned bend edges.

**2,648,889**
**FORM FOR CASTING ELONGATED CONCRETE BUILDING UNITS T SHAPE IN CROSS SECTION**
Philip N. Youtz, Yorktown Heights, N. Y.
Application October 16, 1951, Serial No. 251,495
4 Claims. (Cl. 25—121)



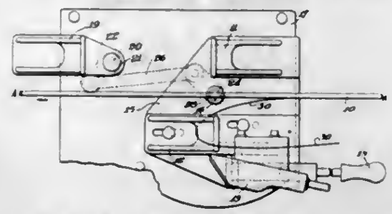
1. A mold for casting a concrete building unit T-shape in cross section and having a groove along one side of its head and a rib along the other side of said head, said mold comprising an elongated pallet member forming the bottom of the mold cavity and having a flat top face, and also being free from any portion projecting above said face, two elongated side members separable from the pallet member and each presenting a vertically extending wall portion which merges at its lower edge into an outwardly extending horizontal section which has integral therewith a vertical skirt depending from its outer edge and which extends from one end to the other of the side member, an elongated tongue-forming member and an elongated groove-forming member situated between the pallet and the outwardly extending horizontal sections of the side members, said tongue-forming member and groove-forming member each being separable from both the pallet and the side members, the tongue-forming member resting loosely on the flat top face of the pallet at one longitudinal edge thereof and having on its inner face a tongue-forming groove extending longitudinally thereof, the groove-forming member also resting loosely on the pallet member but at the opposite longitudinal edge thereof and having a longitudinal groove-forming rib, the outwardly extending horizontal sections of the side members resting loosely on the tongue-forming member and groove-forming member, and the lower edges of the two skirts extending below the top face of the pallet member and having a straddling relation thereto.

**2,648,890**
**APPARATUS AND METHOD FOR COMBINING YARNS**
Robert E. McDonald, Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application January 4, 1951, Serial No. 204,374
5 Claims. (Cl. 28—71.5)



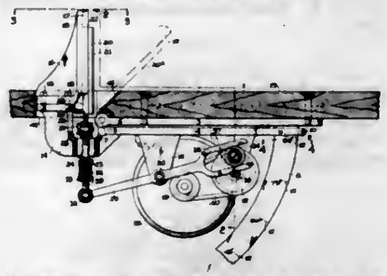
1. An apparatus for adding a yarn end to running yarn which comprises a tube having a diameter sufficient to accommodate running yarn and a yarn end to be added, said tube being provided with a lengthwise slot for introducing a yarn end, and means including a tangential air inlet for blowing air into said tube, the axis of said inlet intersecting a diameter of said tube at a point sufficiently distant from the axis of the tube to impart a swirling motion to the air in said tube.

**2,648,891**
**METHOD AND APPARATUS FOR ADDING YARN ENDS**
Ralph C. Pollman, Seaford, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application June 2, 1952, Serial No. 291,099
4 Claims. (Cl. 28—71.5)



1. A method for adding a yarn end to running yarn which comprises guiding running yarn and a yarn end together to form a tow and then guiding the free end of yarn away from the running yarn, rotating the tow so that the yarn end is wrapped around the running yarn, and immediately thereafter cutting off the free end of added yarn close to the tow.

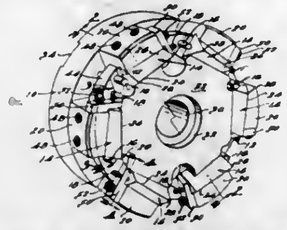
**2,648,892**
**RECIPROCATING POWER TOOL**
Alfred A. Miller, Cleveland, Ohio
Application November 19, 1948, Serial No. 61,053
2 Claims. (Cl. 29—76)



1. A machine tool comprising a main base adapted to be secured to the underside of a work table; a sub-base hingingly connected to the main base; a rigid rectilinear guideway supported rigidly by the sub-base and extending generally upwardly therefrom beyond the table top; a tool reciprocable on and guided for rectilinear movement by the guideway; the tool having a working surface laterally opposite to the guideway, a motor carried by the sub-base; a power transmitting connection between the motor and the tool to reciprocate the tool; means to lock the sub-base to the main base in different hingingly moved positions of the sub-base; the hinging connection disposed to cause the guideway and tool to take up corresponding different angular working positions with respect to the work table top.

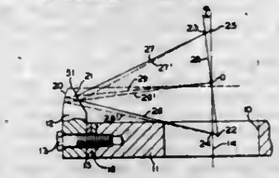


**2,648,893**
**ROTARY CUTTER**
Howell E. Begle and Gedeon F. Gaudreau, Detroit, Mich.; said Gaudreau assignor to said Begle
Application April 1, 1948, Serial No. 18,414
7 Claims. (Cl. 29—105)



1. A milling cutter comprising a rotatable cutter head; an annular series of individual cutting elements carried by the head, said cutting elements having leading and trailing ends, bottom surfaces and inner and outer tapered sides; separate mountings for fastening and locating the individual cutting elements on the cutter head, said mountings having stop members arranged to engage and to locate the leading ends of said cutting elements, inclined surfaces extending from said stop members for supporting the cutting elements in identical positions on said cutter head, and undercut side walls overlapping one of the tapered sides of the cutting elements; and clamps arranged to engage the tapered sides of said cutting elements adjacent to said one tapered sides, said clamps having undercut portions which overlap said adjacent tapered sides of the cutting elements and cooperate with said first-mentioned undercut sides to hold the cutting elements fixed on the cutter head.

**2,648,894**
**CUTTER FOR PRODUCING GEARS**
Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application August 20, 1947, Serial No. 769,725
6 Claims. (Cl. 29—105)



1. A face-mill gear cutter having outside and inside cutting surfaces that are of curved profile shape in a plane axial of the cutter and that have different radii of profile curvature, the centers of profile curvature of said surfaces being off-set from the axis of the cutter and the amounts of off-set of said centers being proportional to the radii of profile curvature of the respective surfaces.

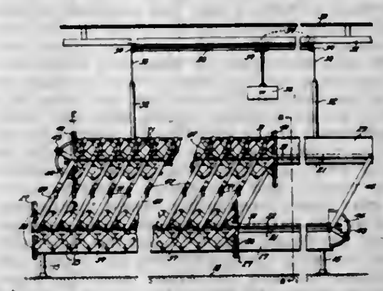
**2,648,895**
**PRESTRESSING STRUCTURAL MEMBERS**
Lincoln K. Davis, Brockton, Mass.
Application March 19, 1946, Serial No. 655,553
1 Claim. (Cl. 29—155)

The method of increasing the torsional rigidity of a metal beam, said beam having angularly related webs extending lengthwise of the beam and imparting to said beam substantial resistance to bending, said beam having at least one first longitudinal area which is subject to compressive stress when the beam is loaded in torsion in use, said beam having second longitudinal areas which are subject to tensile stress when



the beam is loaded in torsion in use, said first longitudinal area being intermediate said second longitudinal areas, said method comprising stretching the metal in said first longitudinal area beyond its elastic limit, lengthwise of the beam, to place said first longitudinal area under residual compression, thereby to place said second longitudinal areas under residual tension.

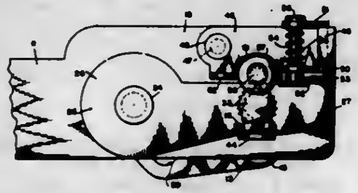
**2,648,896**
**ADJUSTABLE PARTS HOLDER AND WORK-POSITIONING APPARATUS**
Howard L. Krumm, Columbus, Ohio
Application June 12, 1952, Serial No. 293,167
4 Claims. (Cl. 29—286)



4. Apparatus for supporting and positioning work pieces preparatory to joining operations comprising a lower substantially horizontally disposed stationary frame provided with a longitudinally extending guideway; an upper substantially horizontally disposed movable frame provided with a longitudinally extending guideway and positioned in vertically spaced parallel relation to said lower frame; arms extending between and pivotally connected with said frames at each end thereof and providing for swinging movement of said upper frame in a substantially vertical plane; means connected between said arms and said frames for locking said upper frame against swinging movement; a relatively extensible and contractible kinematic linkage including a plurality of pivotally connected arms carried on each of said frames and movable longitudinally thereof; a plurality of relatively spaced parallel templet bars extending between and pivotally connected with said linkages and disposed in angular relation to said frames, said linkages being movable longitudinally of said frames to vary the spacing between said templet bars and said upper frame being movable to vary

the angular relation between said templet bars and said frames; means carried by said templet bars for holding work pieces in abutting angular relation to one another; means carried by at least one of said frames for indicating the angular relation between said templet bars and said frames; and means comprising a measuring tape carried on one of said frames adjacent said linkage for indicating the spacing between said templet bars.

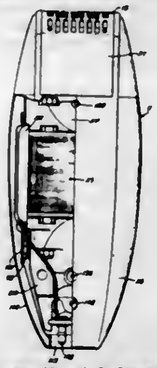
**2,648,897**
**CAN OPENER**
**Robert E. McLean, Kansas City, Mo., assignor to John C. Hockery, Kansas City, Mo., as trustee for Henry J. Talge and Foster L. Talge**
**Original application March 4, 1948, Serial No. 12,910. Divided and this application May 27, 1953, Serial No. 357,655**
**5 Claims. (Cl. 30—9)**



1. A can opener of the rotary drive wheel type, comprising a body, a can rim engaging driving wheel, means supporting the wheel on the body for limited movement, an operating crank connected with the wheel for imparting rotary motion thereto, a can top cutter, a carrier upon one side of the body and supporting the cutter in a position for co-operative action with the wheel, the movement of the wheel being relative to the cutter, a member coupling the carrier with the body by which limited lateral pivotal movement of the carrier and the cutter relative to the body may take place, spring biased means supported by the carrier in position to be engaged by a can top flange engaged upon the under side by and receiving up-thrust from the wheel, and mechanism between the crank and the wheel supporting means by which the wheel is moved into working relation with the cutter upon the turning of the crank in one direction and the crank is subsequently released for continuous turning.

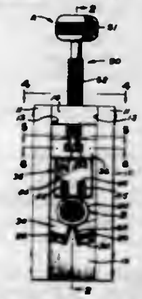
**2,648,898**
**SHAVER AND HAIR RECEIVING COMPARTMENT THEREFOR**
**Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois**
**Application October 29, 1947, Serial No. 782,761**
**6 Claims. (Cl. 30—41)**

1. A shaver comprising a head, an arcuate comb removably mounted on the head, a cutter, means for oscillating the cutter in coaction with the inner side of the comb including a rock-shaft mounted in the head, the head shaped to provide hair receiving compartments at opposite sides thereof communicating with the comb interior and extending lengthwise of the head, each such compartment communicating with the comb interior, and a plate closing the outer side of each such compartment, each plate having a hinge-like mounting on the shaver at its lower end and adapted to be swung outwardly on such



mounting to expose the full length of said compartment for cleaning.

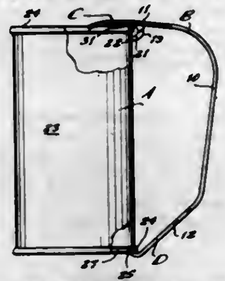
**2,648,899**
**SLITTER OR SCORER FOR TUBES OR SHEATHS**
**Edward Beyer, Oak Ridge, Tenn.**
**Application August 13, 1951, Serial No. 241,661**
**1 Claim. (Cl. 30—91)**



A slitter for sheathed and tubular members, including a housing having spaced-apart channel bars including side walls having edge faces and providing longitudinal edges with the longitudinal edges of one side wall facing the longitudinal edges of the other side wall, a bearing portion bridging said channel bars, extending into the channels of the channel bars and secured to said bars, an an end portion spaced from the bearing portion and bridging said channel bars and secured thereto, having side faces with end parts thereof extending into said channels with said side walls overlapping said end parts and said edge faces exposed, whereby said end portion may receive portions of the cupped hand of an operator; cutter means carried by said bearing portion and extending toward said end portion; and support means for said members carried by said end portion, and facing said cutter means.

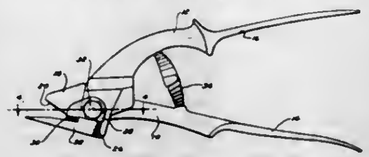
**2,648,900**
**CAN OPENER-HANDLE COMBINATION**
**George W. Anderson, Great Neck, N. Y.**
**Application April 6, 1950, Serial No. 154,219**
**5 Claims. (Cl. 30—123)**

1. A combined can opener and handle for beaded cans comprising a U-shaped member having a base, an upper leg and a lower leg, the upper leg having a forwardly-extending triangular shaped opening end section, said upper leg having a central claw member extending rearwardly and two side claw members extending forwardly to engage the can and the lower leg having means to engage the bottom bead of the can to enable the opener to serve as a handle, and said upper leg having an angle of substantially 90° to the base of the U-shaped member and said lower leg having an angle of substantially between 120° and 150° to the base.





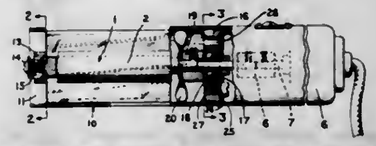
**2,648,901**
**TOOL FOR CUTTING METAL STRAP**
**Walter E. Northcutt, Kankakee, Ill., assignor to Manco Mfg. Co., Bradley, Ill., a corporation of Illinois**
**Application June 20, 1951, Serial No. 232,565**
**3 Claims. (Cl. 30—131)**



1. In a tool for cutting metal strap, two arms, a bolt pivotally connecting said arms adjacent their forward ends, a lower cutting head extending forwardly from one of said arms and having a substantially flat upper face and an upwardly extending boss at the rear of said face adjacent and below said bolt, a stop member extending about said bolt secured between the head thereof and the outer side of said one arm and seating on said boss both rearwardly and forwardly of the axis of said bolt effective for restraining said stop member against turning about said bolt, said stop member extending forwardly of said bolt and being provided with a lateral projection extending outwardly of said lower head and overlying and spaced from said flat upper face thereof defining therewith a slot open at its forward end for reception of metal strap to be cut, and an upper cutting head extending forwardly from the other arm and cooperating with said lower head for cutting metal strap disposed in said slot and on said upper face of said lower head.

**2,648,902**
**HAIR CUTTER**
**John Petersen, Newark, N. J.**
**Application July 17, 1951, Serial No. 237,221**
**1 Claim. (Cl. 30—228)**

In a hair cutter, a rotor, means for rotating said rotor, a stationary cage enclosing said rotor, said cage having a plurality of elongated longitudinally extending slots therein and disposed at an acute angle to a plane bi-secting the axis of the cage, a pair of radial diametrically opposed cutting blades carried by said rotor, said blades being straight and parallel throughout their entire lengths to a plane bi-



secting the axis of the rotor, the slots in said cage being of different widths and gradually increasing in width from the narrowest slot to the widest slot, and cutting edges at each side of the slots to coact with said blades, means for connecting said cage to a motor, a stub shaft on each end of said rotor, and bearings for said stub shaft carried wholly by said cage.

**2,648,903**
**MECHANICAL MOVEMENT**
**Alexander B. Hulse, Dallas, Tex.**
**Application November 25, 1950, Serial No. 197,555**
**7 Claims. (Cl. 30—248)**

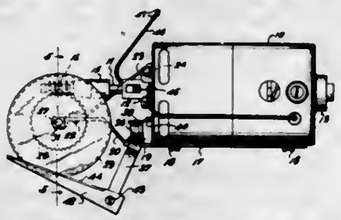


1. A mechanical movement including: a support, a pair of arms pivoted to said support to swing about a common pivotal axis, a pair of toggle links pivoted to each other with the free end of each pivoted to one of the arms, the pivots connecting the toggle links to each other and to the arms being positioned so that the three axes of the pivots of the toggle links meet at a common point on said common pivotal axis about which the arms pivot.

**2,648,904**
**MOTOR OPERATED CUTTER**
**James C. Brooks and Roy T. Gardner, Albertville, Ala.**
**Application June 9, 1950, Serial No. 167,007**
**2 Claims. (Cl. 30—264)**

1. A cutter assembly comprising a housing, a plate affixed to the housing, a bracket extending from said plate, a drive shaft revolubly mounted in said bracket, a circular plate mounted upon said shaft, a bell crank lever mounted on said plate, a straight-edged blade carried by one end of said lever and contacting said circular blade,

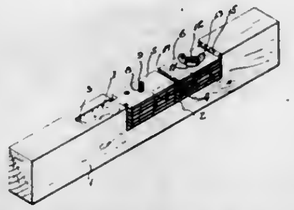
and means for urging said straight-edged blade toward said circular blade, said means including



a spring interconnecting the outer end of said bell crank lever with said housing.

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**2,648,905**
**THONG CUTTING DEVICE**
**William Hinsche, Quesnel, British Columbia, Canada**
**Application October 26, 1951, Serial No. 253,233**
**1 Claim. (Cl. 30—283)**

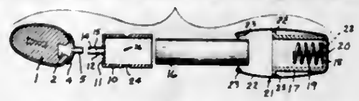


A thong cutting device for leather and the like, comprising in combination a recessed hand block, a cutting blade held by said block within said recess, means associated with said block for varying the height of said blade from the base of said recess and thereby varying the thickness of cut said device is capable of making, and further means for varying the length of the effective cutting edge of said blade to suit materials of varying thicknesses, said first mentioned means including a set of rectangular shims detachably secured at one end of said recess and a corresponding set of rectangular shims also detachably secured adjacent the other end of said recess so that a gap is left therebetween through which the leather is fed, said blade being selectively clamped between said shims and spanning said gap, said means for varying the length of the effective cutting edge of said blade including a mortised slot at one end of said recess, said set of shims adjacent said end being provided with tongues engageable within said mortised slot, said means to secure said shims within said recess taking the form of a bolt passing through said shims and said block, said block being slotted to permit limited movement of said bolt and said shims in the direction of the axis of said block.

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**2,648,906**
**DEVICE FOR USE IN FILLING CAVITIES IN TEETH**
**Hillard M. Holmes, Lake Tahoe, Calif.**
**Application January 12, 1951, Serial No. 205,671**
**6 Claims. (Cl. 32—60)**

1. In apparatus for filling the cavity in a tooth with a setting plastic material, a matrix of thin sheet material adapted to be trimmed and shaped to fit over said cavity with marginal portions against the marginal portions of said tooth around the edges of said cavity, an inlet in said matrix and a passageway communicating with said inlet through which said plastic material in a plastic state is adapted to be forced for ejection into said cavity when said matrix is secured



over the latter, and means connected with said matrix for supplying said material to said passageway for passage through the latter under pressure and means automatically operative for yieldably holding said material so injected into said cavity under uniform pressure during the setting period of said plastic.

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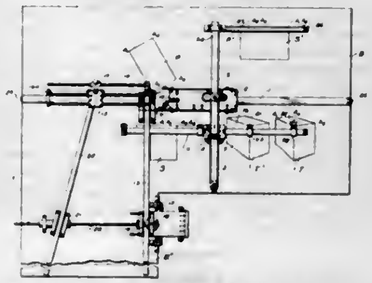
**2,648,907**
**DRESSMAKER'S MEASURING DEVICE**
**Marion C. Nicholson, Detroit, Mich.**
**Application October 1, 1951, Serial No. 249,167**
**8 Claims. (Cl. 33—2)**



1. A dressmaker's measuring device including, in combination, a garment hanger having a horizontally extending cross rod, a measuring stick, means suspending one end of the stick from the cross rod of the hanger and providing travel of the stick along the rod while suspended therefrom, and means carried by the hanger for supporting a garment to the hanger below the cross rod so that the stick may be shifted along the rod transversely over the garment.

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**2,648,908**
**DRAWING MACHINE**
**Oliver M. Stone, Cleveland, Ohio**
**Application July 14, 1950, Serial No. 173,797**
**23 Claims. (Cl. 33—77)**



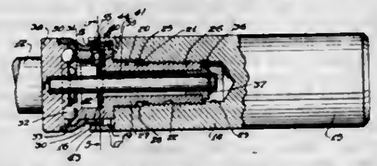
1. In a perspective drawing machine, a base, a carriage supported for rectilinear movement over said base, a plotting member carried by said carriage and movable over said base relative to said carriage, a plan beam and an elevation



beam each disposed parallel to said base and each supported on laterally spaced supports for pivotal movement about a pair of common axes and rectilinear movement relative to said base, means for moving said carriage in response to pivotal movement of said plan beam, means for moving said elevation beam in response to movements of said plan beam, and means for translating movements of said elevation beam in directions transversely of said plan beam into movement of said plotting element relative to said carriage.

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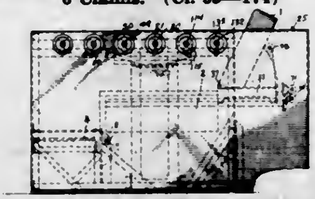
**2,648,909**
**LENGTH MEASURING UNIT FOR WORK IN LATHES AND SCREW MACHINES**
**Casimir M. Zajdel, Chicago, Ill.**
**Application December 12, 1950, Serial No. 200,397**
**4 Claims. (Cl. 33—170)**



1. A length measuring unit including a shank, a feed element carried by the same, said feed element being threaded in the shank as a feed screw alined axially with the work, and a device to lock the rotation of the feed screw in relation to the shank, such device comprising an annular series of receptacles formed in the shank, and a stop pin movable radially in the feed screw to seat in any one of said receptacles when the feed screw has been rotated to a desired point of adjustment.

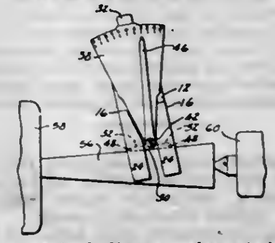
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**2,648,910**
**CHAIR FITTING DEVICE**
**Sol Herbert Brown, San Francisco, Calif.**
**Application March 31, 1950, Serial No. 153,046**
**6 Claims. (Cl. 33—174)**



1. A chair fitting device comprising a rigid frame, a seat having a front edge, a back having a lower edge, pivot means respectively supporting said seat and said back for swinging about horizontal parallel axes respectively adjacent said front edge and said lower edge, seat and back actuating means for swinging said seat and said back about said axes including a pair of intermeshed worm gears respectively for said seat and said back providing means for locking said seat and said back at any position in their movement about their respective axes, a pair of arm rests spaced above said seat, means supporting said arm rests on said frame for vertical movement toward and away from said seat, movable means connecting said arm rests for said vertical movement simultaneously, and a single control mechanism connected with said last mentioned movable means for causing said vertical movement upon actuation of said single control means.

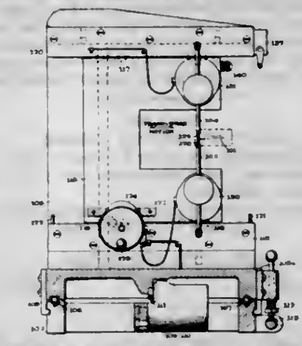
**2,648,911**
**GAUGE**
**John E. Giambiasi, Philadelphia, Pa.**
**Application November 29, 1951, Serial No. 258,845**
**5 Claims. (Cl. 33—174)**



1. A gauge including an elongated, generally vertical body having a V formed at one end thereof, there being a through hole in said body leading from the apex of the V to the other end of said body, a calibrated rod movable in said hole, an index plate secured to the upper portion of, and movable with said rod, a feeler normal to the axis of said rod and pivoted to the lower end of said rod and movable in said V with the movement of said rod in said hole, and a pointer carried by said feeler and movable relative to the surface of said index plate upon contact of said feeler with a surface which is not normal to the axis of said rod.

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**2,648,912**
**CONTOUR INSPECTION DEVICE**
**John Hazen Osgood, Claremont, N. H.**
**Application August 11, 1947, Serial No. 768,039**
**13 Claims. (Cl. 33—174)**



1. A device for inspecting the contours of an object comprising a base, a surface engaging member thereon movably mounted to respond to contour variations of an inspection object, means for effecting engagement and relative movement between said surface engaging member and the object in a series of predetermined parallel planes of inspection, a carriage electrically synchronized with said means in response to said relative movement in each plane of inspection through a two member selsyn system electrically connected therebetween, said means being connected to one member and said carriage to the other, presetting means to fix the relative positions of said surface engaging member and said object progressively in each of said planes of inspection, a contour follower on said carriage movably mounted in synchronization with said surface engaging member in accordance

with contour variations through a two member Selsyn system electrically connected therebetween, said surface engaging member being connected to one member and said follower to the other, a differential generator operatively controlled by said presetting means and electrically connected to said Selsyn system synchronizing said surface engaging member and said follower to move said follower a predetermined distance when the relative positions of said surface engaging member and said object are changed from one plane of inspection to another.

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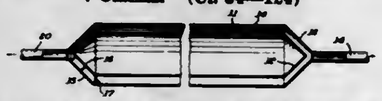
**2,648,913**
**CIRCUMFERENCE MEASURING INSTRUMENT FOR CYLINDRICAL ARTICLES**
**Harvey K. MacKenzie, Pioneer Mines, British Columbia, Canada**
**Application November 29, 1949, Serial No. 129,960**
**12 Claims. (Cl. 33—179)**



1. An instrument for measuring cylindrical articles, and particularly articles the ends of which are not free, such as ropes, cables or the like, comprising a pair of arms pivoted at a point spaced from their opposite ends in relation to each other and forming tongs, said tongs being formed with working ends on one side of the pivot and handles on the opposite side thereof, said working ends of the arms being adapted to be brought together, an open loop formed of fine wire extending between and fixedly secured at its opposite ends to the working ends of the tongs, said loop opening outwardly from the working ends, and a meter associated with the loop for indicating the size of the article when said loop has been drawn around the latter by the arms.

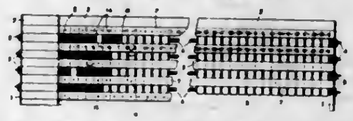
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**2,648,914**
**ROTARY STEAM DRIER**
**Gustav Engstrom, East McKeesport, Pa.; Fanny M. Engstrom administratrix of said Gustav Engstrom, deceased**
**Application February 12, 1952, Serial No. 271,111**
**7 Claims. (Cl. 34—124)**



1. A rotatable drier comprising a drum having an outer cylindrical drying surface, means for introducing a heated vapor in heat exchange relationship with said drying surface, means inside the drum collecting condensate resulting from removing the heat from the heated vapor, a pair of spaced-apart conical surfaces having an annular ring connecting the bases thereof to form a conical chamber therebetween, the outer of said surfaces being connected at its base to the outer cylindrical drying surface, spaced-apart openings in said annular ring communicating with the fluid-collecting means, means beginning adjacent the openings and cooperating with the conical surfaces to carry condensate along a conical helicoidal path from said openings to a point on the axis of rotation of the drier and means carrying the condensate from said point to discharge it out of the drier.

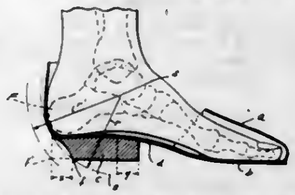
**2,648,915**
**GRAPHICAL RECORDING AND INDICATING APPARATUS**
**Eric Dalby, Leeds, England**
**Application August 14, 1950, Serial No. 179,251**
**In Great Britain August 19, 1949**
**3 Claims. (Cl. 35—24)**



1. A graphical recording and indicating apparatus of the type known as a bar chart comprising in combination a frame work enclosing the charting area for displaying headings and titles thereon, a series of separators supported across the full extent of said charting area to form a series of continuous parallel slots, a spindle extending across said framework behind each slot, a series of indicator discs rotatably mounted on each spindle and having sets of markings around their circumferences visible through said slots as continuous bars, and a set of markings on each said separator corresponding with any desired number of the adjoining series of discs, said separators being curved along their edges to fit between and be supported solely by the adjoining rows of discs or one such row and the framework, said separators and discs making light contact with one another sufficient to act as a brake on said discs.

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**2,648,916**
**SHOE WITH HEEL**
**Georg Greissinger, Stuttgart-Vaihingen, Germany**
**Application September 24, 1949, Serial No. 117,682**
**In France September 27, 1948**
**3 Claims. (Cl. 36—8.5)**

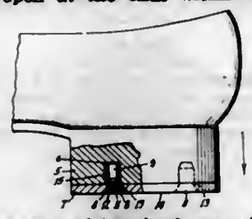


1. A shoe having a heel with its lower rearmost point lying approximately on the arc of a circle having that portion of the shoe where the astragalus of the wearer is located as a center and the distance between said portion and the portion of the shoe where the rearmost part of the heel bone of the wearer is located as a radius, whereby the wearer exerts the same force when walking with the shoe as he would if he were walking without the shoe.

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**2,648,917**
**DETACHABLE HEEL TREAD**
**William Joseph Herald, Strathmore, Victoria, and Robert Murray, West Brunswick, Victoria, Australia**
**Application November 28, 1950, Serial No. 197,878**
**In Australia December 5, 1949**
**3 Claims. (Cl. 36—42)**

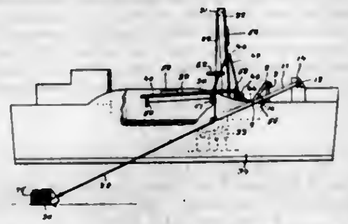
1. A replacement piece for a shoe heel having secured therein and extending from a side thereof, a plurality of projecting attachment members fitting complementary sockets in the shoe heel and opposing displacement from the sockets by frictional resistance and creation of partial vacuum therein by outward movement in the sockets, said attachment members having longitudinal holes extending partly therethrough open at the ends within the sockets,



whereby upon predetermined wear of said members the sockets will be connected with the atmosphere to thereby prevent the creation of partial vacuum in and facilitate extraction of said attachment members from said sockets.

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**2,648,918**
**OYSTER DREDGE HOIST GEAR**
**Antonio Mazzella, New Haven, Conn.**
**Application December 15, 1950, Serial No. 201,035**
**2 Claims. (Cl. 37—55)**

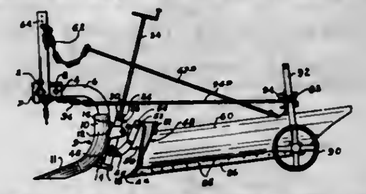


2. In a dredge hoisting gear, the combination which comprises a boat having a deck, a head block on the forward part of the deck, a mast extended upwardly from the deck of the boat, a pair of booms pivotally mounted on the head block of the boat and positioned to extend over the sides of the boat, pulleys in the booms, a pulley block on the mast, a pair of dredges suspended by cables with the cables extended through the pulleys in the ends of the booms, over the pulley block on the mast and downwardly to the interior of the hull of the boat, hinged receiving trays mounted above the deck of the boat, discharge chutes positioned to receive products from the receiving trays, guide means pivotally mounted on the discharge chutes for evenly distributing products over the deck of the boat, cables connecting the receiving trays to the booms for elevating the ends of the receiving trays as the booms are elevated, blocks positioned on the boat for limiting downward movement of the booms, a stop for limiting upward movement of the booms, and means for flushing products from the chutes.

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**2,648,919**
**MOLDBOARD ADJUSTMENT FOR V-TYPE DITCHING MACHINES**
**Charles H. Brown, Breckenridge, Tex.**
**Application September 9, 1947, Serial No. 772,935**
**3 Claims. (Cl. 37—98)**

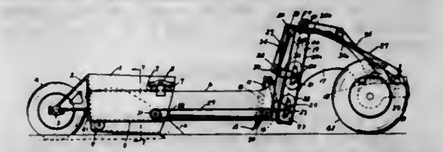
1. In a ditcher for forming ditches in the earth, a traction element for pulling said ditcher, a moldboard plow connected to said traction element for initially opening a ditch in said earth, a follower plow disposed rearward of said moldboard plow and connected thereto to perform an additional ditch opening operation in said earth, means connected with said plows for adjusting said follower plow with respect to said moldboard plow, a pair of outwardly diverging moldboard blades disposed rearwardly of said follower plow and connected therewith adapted to remove dirt from the edge of said ditch opening in said earth, means connected with the moldboard blades for varying the angular dis-



position of said moldboard blades with respect to the vertical so as to form a ditch with downwardly converging sides, said follower plow having a rearwardly extending lug near the bottom thereof, said lug having outturned ears on the rear portion thereof, each of said ears having a threaded bolt therethrough, said bolts projecting forwardly of said ears, and a lug positioned on and secured to the inner and lower side of each of said moldboard blades and having a recess therein engaged by the bolt, so as to permit adjustment of said moldboard blades with respect to said follower plow.

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**2,648,920**
**CARRY-TYPE SCRAPER AND DIGGING FRONT APRON ARRANGEMENT**
**Walter R. Andersen, Cleveland, Ohio, assignor to Koehring Company, Milwaukee, Wis., a corporation**
**Application April 4, 1947, Serial No. 739,386**
**16 Claims. (Cl. 37—126)**

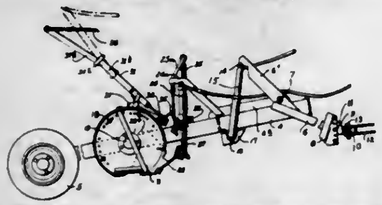


1. In a dirt scraper, in combination, a rear vehicle frame section comprising a load receiving bowl open at its front end, wheels connected to the bowl to support the same, a forwardly operating rear scraper at the lower open end of the bowl, longitudinal frame members slidably connected to the bowl, parts carried by the frame members to abut with the bowl to move the latter forwardly with the frame members, a tractor in advance of the said vehicle section and draft connected to support the frame members at the front ends and to pull the frame members and bowl, a motor on the tractor for driving the same, means to engage the rear scraper in undug earth, a scraper mounted on and between said frame members for positive movement in a vertical direction independently of the frame members and located in front of the rear scraper, said front scraper adjustable to a digging position a considerable distance in advance of the rear scraper when the frame members are pulled forwardly on the bowl, means on the tractor operable to actuate the frame members to cause relative

movement of the bowl scraper and front scraper toward each other for enabling undug earth ahead of the bowl to be dug and scraped into the latter by the front scraper, and means for pushing the front scraper downward on and relative to the frame members for effecting downward digging penetration of the front scraper into undug earth ahead of the bowl and maintaining same at a controlled depth in the earth during said movement relatively to the bowl.

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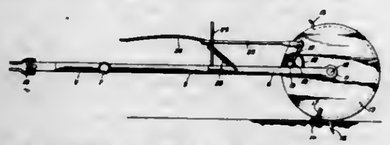
**2,648,921**
**FLUID PRESSURE OPERATOR FOR ROLL-OVER SCRAPERS**
**Charles H. Brown, Breckenridge, Tex.**
**Application June 30, 1948, Serial No. 36,143**
**8 Claims. (Cl. 37—129)**



1. In an implement for moving earth, a frame, wheels mounted on one end of said frame, a tongue extending forward of said frame and having a hitch connection thereon, a scraper mounted within said frame and journaled thereon for rotary movement relative thereto, fluid pressure operated means mounted on the frame for raising the scraper and the frame, latch means on said scraper and said frame for selectively securing said scraper with respect to said frame, means remotely positioned from said latch for the operation thereof, said latch means on said frame having a notch therein to engage a lug on said scraper to retain said scraper against rotary movement, fluid pressure operated means mounted on said frame for closing the front of said scraper, and resilient means acting in opposition to said fluid pressure for opening said scraper.

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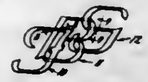
**2,648,922**
**ROTARY SCOOP AND GRADER**
**Herman William Kitchen, Leasburg, Mo.**
**Application September 26, 1947, Serial No. 776,257**
**1 Claim. (Cl. 37—140)**



In a rotary scoop having end walls and circumferentially spaced stops on at least one of said end walls and a supporting frame for the scoop; the improvement of which comprises a manually operated slidable locking pin movable into and out of the path of said stops, a stationary sleeve mounted on the frame adjacent said one of said end walls and slidably and rotatably supporting the pin, said sleeve having a cutaway outer end portion, an arm fixed to and projecting radially outwardly from the pin for riding against the cutaway portion of the sleeve to selectively retract and retain the pin upon movement of the arm in one direction or the other, and an inverted U-shaped guide mounted on the frame over the sleeve and parallel to said cutaway portion and guiding and holding the arm in engagement with said cutaway portion.

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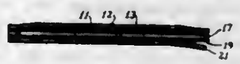
**2,648,923**
**MONOGRAM**
**Walter Nussbaum, New York, N. Y.; now by change of name Walter Brent**
**Application December 24, 1949, Serial No. 134,883**
**In Great Britain October 14, 1949**
**6 Claims. (Cl. 40—1.6)**



5. A monogram structure comprising at least one letter unit of the alphabet having a front face and a rear face and including substantially horizontal and vertical stroke portions, one of said horizontal portions being provided in one of said faces with a groove extending approximately parallel to the direction of said vertical portion, one of said vertical portions being provided in said one face with a groove extending approximately parallel to the direction of said horizontal portion, whereby another letter unit of the alphabet may be connected to said one letter unit by the engagement of horizontal and vertical portions of said other letter unit with said grooves, respectively, of said one letter unit.

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**2,648,924**
**LABEL STRUCTURE**
**Ernest Billings Brewster, Rochester, N. Y.**
**Application December 16, 1949, Serial No. 133,419**
**6 Claims. (Cl. 40—2)**



1. A label structure including a non-opaque outer covering, an underlying base sheet, and a pressure-sensitive marking layer interposed between said outer covering and said base sheet, said pressure-sensitive layer being a waxy coating of contrasting color to and initially masking an underlying sheet and being changed by pressure of writing strokes to render the contrasting color of the underlying sheet visible through the pressure-sensitive layer along the lines of the writing strokes, said outer covering and said underlying base sheet being permanently adhesively secured to each other along at least two opposite edges of the label structure and being intended to remain in fixed relation to each other, without separation, during all normal use.

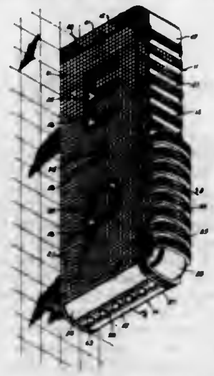
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**2,648,925**
**SIGN STRUCTURE**
**Harold R. Owen, Playa Del Rey, and Ralph Brown, Fall Brook, Calif., assignors to Electrical Products Corporation, Los Angeles, Calif., a corporation of California**
**Application May 6, 1948, Serial No. 25,328**
**4 Claims. (Cl. 40—130)**

1. An illuminated sign including: a plurality of panel members bound together adjacent their edges, certain of said members having integral raised stroke portions projecting from a face thereof and defining sign characters of selected



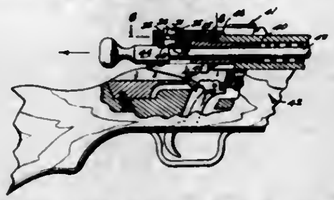
design, the sides of said stroke portions being inclined; and illuminating means mounted on each of said certain members and bordering the stroke portions thereof so as to form an outline of the sign character, said illuminating means being mounted in a plane extending parallel to



the face of the respective member, said plane intersecting the portions of the stroke portions disposed most remotely from said face so that the major portion of the light rays emanating from the illuminating means is projected to and reflected by the face of the member and the inclined sides of said stroke portions.

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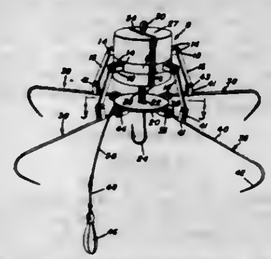
**2,648,926**
**RIFLE BOLT SLEEVE AND SAFETY**
**Raymond O. Ackerson, Earp, Calif.**
**Application August 2, 1950, Serial No. 177,316**
**5 Claims. (Cl. 42—70)**



1. A bolt sleeve and locking mechanism for rifles comprising a bolt sleeve body having a forward end and a rear end and provided with a restricted externally threaded extension projecting from its forward end and adapted to threadedly engage in a rifle bolt for mounting said body detachably on the rear end thereof, said bolt sleeve having a bore extending therethrough and through its restricted extension adapted for reciprocably receiving therein a rifle firing pin and cocking piece, said bolt sleeve body having an opening adjacent its rear end opening into said bore and outwardly and upwardly of the bolt sleeve body, a shaft journaled in said opening having a lower end provided with a diametrically extending groove registering with the wall of said bore in one position of the shaft to permit the cocking piece to slide through said groove and extending into the bore in another position of the shaft to form a stop for engaging and retaining the cocking piece in a retracted, cocked position, a lever projecting radially from the upper end of said shaft and disposed in a horizontal plane above and adjacent the sleeve body for swinging movement in a horizontal plane about the axis of said shaft for positioning the diametrical groove of the shaft in or out of registry with said longitudinal bore, said sleeve body having a second bore disposed above said first mentioned bore and above the level of said restricted extension and provided with a restricted end opening outwardly of the forward end of the bolt sleeve body, a bolt locking pin reciprocally mounted in said second bore for sliding movement longitudinally of the bolt sleeve body and disposed forwardly of said shaft, spring means urging said bolt locking pin into engagement with the shaft, said shaft having circumferentially spaced depressions of different depths for selectively receiving an end of the pin to releasably retain the shaft with the diametrical groove thereof either in or out of registry with said first mentioned bore.

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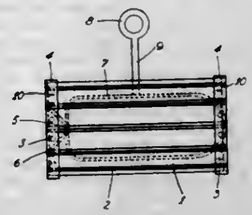
**2,648,927**
**FISH AND CRAB HOOK**
**Clyde W. Berry, Naval Base, S. C.**
**Application July 7, 1952, Serial No. 297,551**
**8 Claims. (Cl. 43—37)**



1. A fishing device of the class described comprising a float, a spider aligned with and movable toward and from one end of said float, a bait hook fastened to said float, means whereby a fishing line is operatively connected with said spider, a plurality of grappling hooks pivotally mounted on said spider, and links operatively joining said grappling hooks to said float.

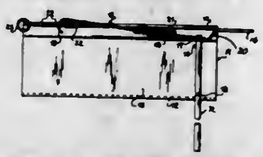
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**2,648,928**
**FISHING DEVICE**
**Sam Women Sam, Chicago, Ill.**
**Application November 14, 1951, Serial No. 256,249**
**12 Claims. (Cl. 43—41)**



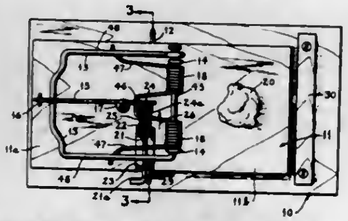
6. A fishing device comprising a net receptacle, an adhesive, a plurality of filaments disposed therein and bonded to each other and to said net receptacle by said adhesive, and means extending from the receptacle for attachment to a fishing line.

**2,648,929**
**DEPTH CONTROL DEVICE FOR FISHING TACKLE**
George W. Dunn, Berea, Ohio
Application April 19, 1949, Serial No. 88,423
11 Claims. (Cl. 43—43.13)



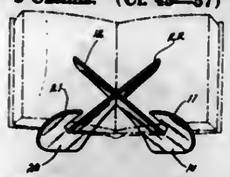
1. A device of the nature described comprising vertical fin means, lateral vane means extending from said fin means, forward and rearward means substantially parallel to said vanes for connecting the same to fishing tackle, a depending member pivotally mounted forwardly on said device and extending below said vane means, means on one of said connecting means to resiliently restrain said member in a position angular to said vane means, and means including the other of said connecting means for releasing said pivoted member upon application of a predetermined tensile force between said connecting means so that said member may move toward fore and aft alignment with said vane means in response to resistance due to relative motion of said member and the water.

**2,648,930**
**ANIMAL TRAP**
Andrew W. Salokar, Miami, Fla.
Application March 29, 1952, Serial No. 279,271
11 Claims. (Cl. 43—81)



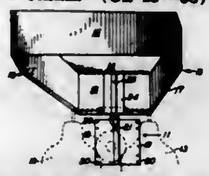
1. In an animal trap, the combination of a base, a trap plate over said base, spaced apart therefrom and being swingable on a transverse axis on said base, a striker bar over said trap plate, a transverse axis for said striker bar on said trap plate spaced apart therefrom and intermediate its ends dividing the upper surface of said trap plate into bait and trigger sections, said striker bar being adapted to swing on said axis and thereby be folded over either section of the trap plate, resilient means adapted to strongly urge said striker bar over the bait section of the trap plate, means on the trigger section on said trap plate adapted to releasably lock said striker bar on said trigger section when the same is folded thereon against the action of said resilient means, said trap plate being placed into an inclined position, said trigger section being downwardly when said striker bar is locked thereon, said bait section being adapted to receive a bait placed thereon in any position thereof, and means to transversely move said locking means and release said striker bar upon said trap plate being caused to swing downwardly at the bait section by a force acting on said bait section.

**2,648,931**
**KNOCKDOWN BOOKHOLDER**
Melvin J. Devean, Beverly, Mass.
Application November 17, 1950, Serial No. 196,312
3 Claims. (Cl. 45—57)



1. A knock-down book holder comprising a pair of flat stiff members each having a body portion with a long straight bottom edge, merging into an upstanding toe at its forward end and into an upstanding back rest at its rear end, the toe being spaced from the back rest to provide a square sided notch to receive the bottom of an open book and the back rest having a straight rearwardly inclined edge for engaging the covers of the book, and the back rests of both members being slotted and interlocked at substantially right angles to each other and both extending upwardly in divergent relation above their point of interlocking.

**2,648,932**
**PROTECTIVE COVER**
Logan T. Dixon, Elizabethtown, Ky.
Application December 14, 1949, Serial No. 132,905
1 Claim. (Cl. 45—68)

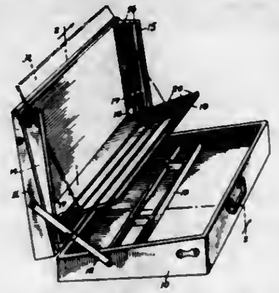


A protective device for use in connection with bottled fuel gas containers, comprisng a flat plate having a vertical, central, forwardly raised portion presenting a channel open at the rear face of the plate, said plate being adapted to be attached to a vertical surface, a solid, vertical, rod-like arm having a lower end portion seated in the upper end of said channel of said plate and secured therein and having an upper portion extending above the upper end of the plate and having an off-set adjacent the upper end of the plate spacing the upper portion of the arm forwardly of its lower portion and of said plate, a cover having back, front, side walls and a top, a sleeve secured against the inside of the back wall of the cover and extending substantially the depth of the back wall, said upper portion of said arm being slidably seated in said sleeve with a snug fit whereby said sleeve and arm bind to lock the cover to the arm when non-vertical upward pressure is exerted on the cover.

**2,648,933**
**ARTIST'S BOX**
Irwin Brooks, Merrick, and Alan Friedberg, Lynbrook, N. Y., assignors to American Artists' Color Works, Inc., Brooklyn, N. Y., a corporation of New York
Application May 3, 1950, Serial No. 159,742
3 Claims. (Cl. 45—129)

3. In an artist's box which includes a cover having side walls, a canvas supporting shelf having longitudinal parallel slots in its upper face, a plurality of pairs of transversely cut slots in the inner faces of said side walls, each pair adapted to receive and retain said shelf on the cover in the direction generally transverse to the length of said side walls, said transversely cut slots in





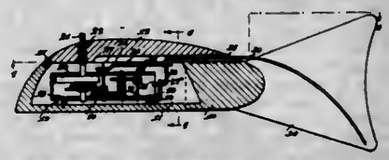
the side walls sloping slightly rearwardly and downwardly when said cover is in open position, each one of said longitudinal slots on said shelf adapted to receive the lower edge of a canvas so that the canvas can be positioned on said shelf in a plurality of positions.

**2,648,934**
**SAVINGS BANK**
William W. Syfert, Las Vegas, Nev.
Application June 5, 1950, Serial No. 166,121
2 Claims. (Cl. 46—3)



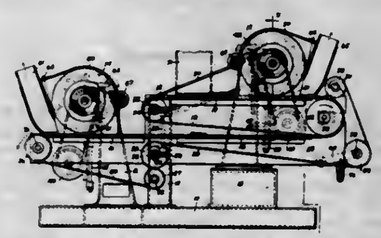
1. An animated coin bank comprising a hollow member formed in the configuration of a head, having an eye opening, an inset eye spaced laterally of said opening having a coin slot, a pair of ears pivotally carried by the opposite sides of said head, said head having a vertically elongated slot below said inset eye, a rock lever projecting forwardly through said latter slot and formed in the simulation of a cigarette, a grooved coin receiving lever pivotally mounted within said head and normally disposed below said coin slot, a vertically movable slide bar in said head, guides for said slide bar, means including a pair of oppositely disposed curved arms, one of which constitutes a locking arm for said coin receiving lever connecting said slide bar with the inner end of said coin receiving lever, an eye rockably disposed in said head in confronting position to said eye opening, means connecting said eye with said slide bar whereby said eye will rock with vertical movement of said slide bar, and means connecting said slide bar with said ears whereby said ears will move with movement of said slide bar.

**2,648,935**
**MECHANICAL TOY WHALE**
Frank K. Nagel, Bayville, N. Y.
Application July 28, 1950, Serial No. 176,489
1 Claim. (Cl. 46—92)



A device of the character described comprising a hollow body, a cover removably mounted upon the body, a tail formed of flexible material and affixed to the rear of said body, a motor mounted within the body, a housing for said motor, a rocker arm embedded within the tail, and means interconnecting said rocker arm and motor whereby a sculling motion is imparted to said tail, said means including a lever having a slot formed in the rear portion thereof and pivoted at its forward end to said housing, a shaft revoluble by said motor, a crank formed in said shaft and extending through said slot, said lever having an opening adjacent the free end thereof, and an oscillating arm pivoted to said housing and extending through said opening, and having integral connection with said rocker arm, and said rocker arm extending rearwardly and downwardly in said tail.

**2,648,936**
**BLANK GRINDING MACHINE**
Louis Hajek, Jackson Heights, N. Y., assignor to Holub-Dusha Co., New York, N. Y., a corporation of New York
Application April 27, 1950, Serial No. 158,409
4 Claims. (Cl. 51—80)



1. A grinding machine comprising a frame, a pair of primary pulleys, one being a supporting pulley and the other being a blank reversing pulley, mounted on said frame, a primary belt-like endless conveyor carried by and passing about said primary pulleys and having its upper and lower reaches extending longitudinally of said frame, said upper reach being adapted to receive thereon blanks to be moved forwardly by said conveyor toward said reversing pulley, a group of secondary pulleys, one being a delivery pulley, supported by said frame, a secondary belt-like endless conveyor carried by and passing about said secondary pulley and having its upper reach, in part, disposed beneath the lower reach of said primary conveyor, said secondary pulleys being so disposed with relation to said primary pulleys that said secondary conveyor passes over said reversing pulley and there engages said primary conveyor throughout an extent thereof equal to a substantial arcuate length of said re-

versing pulley, whereby said blanks are carried over said reversing pulley and delivered in an inverted position onto the upper reach of said secondary conveyor to be moved rearwardly thereby beyond said primary conveyor and toward said delivery pulley, a primary grinding wheel mounted above the upper reach of said primary conveyor and there adapted to engage and exert on said blanks a grinding action as they move toward said reversing pulley, a secondary grinding wheel mounted above the upper reach of said secondary conveyor and there adapted to engage and exert on said blanks a grinding action as they move toward said delivery pulley, and power means operatively connected to said conveyors for so moving them that the respective upper reaches travel in opposite directions.

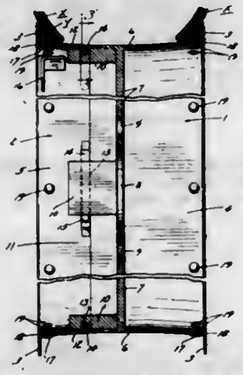
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**2,648,937**

## ANNULAR ROTARY WORK SUPPORT AND TIRE BEAD CENTERING DEVICE

**Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota**

**Application June 28, 1950, Serial No. 170,805**
**3 Claims. (Cl. 51—237)**



1. An annular rotary work support and tire bead centering device, comprising a substantially cylindrical band including laterally opposed detachable sections each of which is provided at its outer edge with an endless radially-outwardly projecting tire casing bead-engaging flange, each of said sections adjacent its respective flange being provided with a plurality of circumferentially-spaced outwardly projecting rounded knobs which project radially outwardly from the band to high points precisely equi-distant from the axis thereof and which are adapted to underlie the beads of the tire casing and center the same, said band loosely receiving said beads in a collapsed condition of the tire casing and said knobs snugly receiving said beads in a distended condition of the tire casing.

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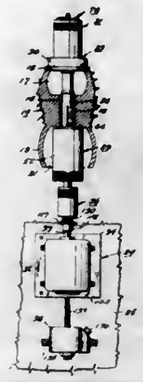
**2,648,938**

## VALVE SEAT GRINDING APPARATUS

**Paul Weynand, San Antonio, Tex.**

**Application December 29, 1952, Serial No. 328,294**
**12 Claims. (Cl. 51—241)**

1. In grinding apparatus for use with a circular valve seat and valve stem guide, carried by an engine body portion, the combination of engine carried mechanism comprising, a pilot coaxial with and nonrotatably carried by said guide, a spindle extending through said pilot having a first end portion extending beyond the guide at its end remote from the seat and a second end portion extending beyond the seat, a first means carried by the engine body portion supporting said spindle for rotation and longitudinal movement coaxial with said pilot, a circular valve grinding element, and a second means coupling said grinding element to and for rotation with



said second end portion of the spindle; and second mechanism separate from the engine for rotating and imparting longitudinal movement to said spindle, comprising, a rotatable and axially movable drive shaft, a third means coupling said shaft with said spindle, and manually operable means for moving said drive shaft longitudinally whereby said grinding element may be brought into contact with and separated from the valve seat.

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**2,648,939**

## PNEUMATIC GRINDER

**Joseph F. Zelik, Finley A. Jennings, and Fred A. High, Dayton, Ohio, assignors to The Vulcan Tool Company, Dayton, Ohio, a corporation of Ohio**

**Application October 18, 1947, Serial No. 780,668**
**11 Claims. (Cl. 51—245)**



2. A grinding attachment for boring machines or the like, comprising a body, a spindle at one end of said body for reception in a drill press chuck or the like, a body extension connected to the other end of said body for rotary motion therewith and for lateral adjustment relative thereto, a grinding shaft rotatably mounted in said body extension, means effecting lateral adjustment of said body extension relative to said body to move said grinding shaft into and out of alignment with the longitudinal axis of said body, a pressure fluid operated rotor arranged in said body extension in driving relation to said grinding shaft, a pressure fluid inlet in said body, a passage in the body, a second passage in the body extension, said passages being in cooperative relation to direct pressure fluid from said inlet to said rotor, at least one of said passages being laterally elongated relative to the axis of the body for communication with its cooperating passage in any position of lateral adjustment of said body extension.



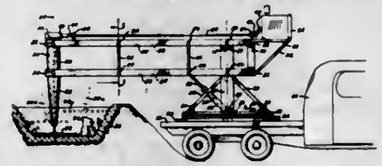
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**2,648,940**

## IRRIGATION DITCH DEMOSSER AND CLEANER

**Zane W. Merkley and William Nichols, Mesa, Ariz.**

**Application October 2, 1952, Serial No. 312,814**
**7 Claims. (Cl. 56—8)**



1. In an irrigation ditch demossing and cleaning machine, a base member, a table rotatable on said base member, an upright support fixed on said table, a pair of lower support arms pivotally mounted on said upright support, a pair of upper support arms pivotally mounted on said upright support, links connecting the rear ends, of said lower support arms to the rear ends of said upper support arms, a spindle housing pivotally mounted on the forward ends of said support arms, a spindle journaled in said spindle housing, a cutter fixed on the lower end of said spindle, a main drive motor mounted on said links on the rear end portions of said support arms, drive means connecting said main drive motor to said spindle, an actuating means between said table and said support arms to swing said arms relative to said table and upright support, and an actuating means between said table and said base member to rotate said table on said base member.

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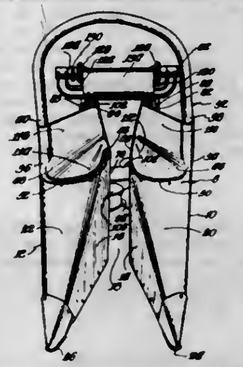
**2,648,941**

## GATHERER FOR FORAGE HARVESTERS

**Otto E. Hintz, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey**

**Application November 2, 1951, Serial No. 254,491**
**10 Claims. (Cl. 56—15)**

1. In a plant harvester of a type having a field traversing support, a gatherer carried thereby and including laterally spaced elongated plant guides having front and rear ends and defining a plant passageway therebetween with forward and rear open extremities, each guide presenting an upwardly facing plant support surface alongside the passageway adapted to support off the ground overhanging portions of plants entered in the passageway, each surface having a rear discharge extremity at the rear extremity of the passageway plant severing and elevating means at the rear ends of said guides carried by the support and comprising a substantially upright auger at the rear extremity of each guide and having an upper end disposed beneath the rear discharge extremity of the respective surface, and cooperating cutter discs connected to the lower ends of the augers and adapted to sever plants at the ground line as they pass to the rear extremity of the passageway, said augers having flights passing each other in vertically stepped relation and adapted to receive the butt end of each plant after it is severed between the lower



ends thereof and elevate the butt end of the plant to the upper ends of the augers while the upper part of the plant and foliage thereon falls upon said surfaces above said cutter discs to prevent said upper part of said plant from entering between said cutter discs, said augers rotating in directions advancing the plants engaged thereby rearwardly, and means carried by the support for removing the plants from the upper ends of said augers and dragging them off the surfaces.

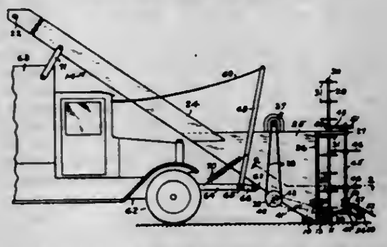
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**2,648,942**

## MACHINE FOR CUTTING AND LOADING CORN AND LIKE CROPS

**David A. Grant, Seattle, Wash., and Andrew G. Grant, New York, N. Y., assignors to Andrew G. Grant, David A. Grant, Connie Grant, and Thos. Marshall, as trustees of David H. Grant, deceased**

**Application May 28, 1949, Serial No. 95,924**
**3 Claims. (Cl. 56—16)**

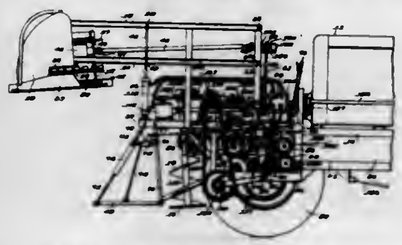


1. In a machine for harvesting tall row crops, two upright knife carrying shafts positioned in side by side spaced apart relation and adapted to be moved along a crop row with one shaft on each side of the row; a plurality of pairs of circular toothed knives secured to said two knife carrying shafts with the two knives of each pair slightly offset vertically relative to each other and with circumferential parts of the knives between the two shafts disposed in slightly overlapped relation; driving means connected with

said two knife carrying shafts rotatively driving the shafts and the knives in opposite direction to cut tall vegetation in a row as the machine is moved along the row; two upright gathering shafts positioned forwardly of said upright knife carrying shafts and substantially parallel therewith; a plurality of pairs of relatively flat horizontal gathering members on said gathering shafts, each gathering member having substantially triangularly shaped points on the peripheral portion thereof; and shaft driving means connected with said gathering shafts rotating the same in opposite directions, whereby adjacent portions of said gathering members are moved in the same direction and toward the cutting means to engage with and straighten up and feed rearwardly to said cutting members vegetation in a row between said gathering members.

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**2,648,943**
**SUGAR CANE HARVESTER AND LOADER**
**Russell E. Shafer, John E. Cary, and Valerie Cary, Opelousas, La., assignors to International Harvester Company, a corporation of New Jersey**
**Application December 15, 1949, Serial No. 133,018**
**43 Claims. (Cl. 56—17)**

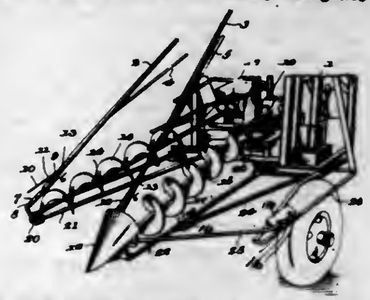


1. In a sugar cane harvester, the combination which comprises a chassis mounted on wheels, horizontally disposed cane cutting rotary cutters suspended from the forward end of the harvester chassis, horizontally disposed cane speed regulating rollers mounted on the chassis to the rear of and above the rotary cutters, means including a pair of rotating interrelated augers for taking cut stalks from the cutters and delivering same between the said rollers, a pair of wire stripping brushes mounted on the chassis and positioned to follow the cane speed regulating rollers, a pair of wire brushes following the said stripping brushes and positioned with a cane receiving space between the surfaces thereof, a chamber having a throat and positioned to receive cane from the said trash separating brushes, means removing leaves and trash from the cane as it passes through the throat of the separator chamber, and an elevator carried by the chassis and positioned to receive cane from the separator chamber.

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**2,648,944**
**CANE GATHERING DEVICE**
**George S. Powers, New Roads, La.**
**Application April 26, 1950, Serial No. 158,180**
**8 Claims. (Cl. 56—119)**

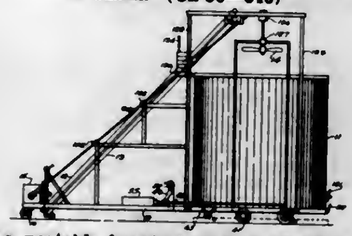
1. In combination with a mobile vehicle, a cane pick-up conveyor means adjacent a forward portion of said vehicle extending substantially fore and aft of said vehicle, a cane piling conveyor forming a continuation of said pick-up conveyor means and extending transversely outwardly of said vehicle, a substantially continuous primary guide means extending along a side of said pick-up conveyor means, and secondary guide means extending outwardly along the rear



side of said piling conveyor, said secondary guide means being adjustable whereby the piling point may be determined.

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**2,648,945**
**PORTABLE HAYSTACKER**
**John Harrington, Rapid City, S. Dak.**
**Application July 28, 1949, Serial No. 107,363**
**1 Claim. (Cl. 56—346)**



In a portable haystacker, a horizontally disposed platform, a cylinder supported on the rear of said platform, a motor supported on the front of said platform, wheels for supporting said platform, a first and second inclined conveyor extending from the front end of said platform to the top of said cylinder, a tail pulley connected to the lower end of each of said conveyors, arcuate bars connected to said tail pulleys and provided with a plurality of teeth on their inner surface, a horizontally disposed driven shaft positioned above said platform, gear wheels mounted on said shaft and meshing with the teeth on said bars, posts extending upwardly from said platform, a stub shaft journalled in the upper end of said posts, chain and sprocket means connecting said stub shaft to said driven shaft, guide rollers for supporting said bars, ground engaging rollers mounted on the lower ends of said bars, ratchets arranged in engagement with said gear wheels for maintaining the conveyors immobile in their adjusted positions, a fan rotatably supported above said cylinder and positioned rearwardly of said conveyors, and means connecting said motor to said fan and to said conveyors.

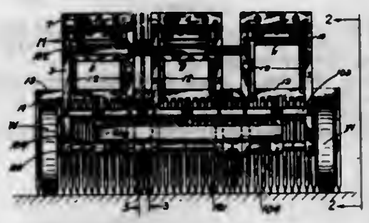
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**2,648,946**
**HAY RAKE**
**Charles L. Kelly, Denver, Colo.**
**Application April 21, 1952, Serial No. 283,280**
**4 Claims. (Cl. 56—385)**

1. A hay rake comprising a wheel supported axle, a pull frame attached to the axle, at least



one rake head frame supported by the axle, said rake head frame having two spaced vertical frame members supported at their lower ends by the axle, a bar connecting the upper ends of said members, the rake head frame being rockable about the axis of the axle with respect to the pull frame, means comprising a notched lever pivotally connected with the pull frame and operatively associated with the rake head frame, for latching it in a fixed rotarial position relative thereto, a pivot bar extending between the vertical frame members, a rake tine assembly comprising a tubular bearing positioned over the pivot bar, a flat bar having a plurality of parallel tines extending downwardly from one edge thereof, and pull rods connecting the ends of the tubu-

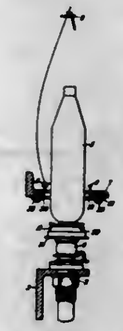


lar bearing with the ends of the tine carrying bar, means comprising a plate adjustably attached to said vertical head frame members underneath the pull rods, forming means for limiting the rotation of the rake tine assembly in a downward direction relative to the rake head frame means, comprising a plate resiliently connected with the rake head frame and positioned above the pull rods for limiting the rotary movement of the rake tine assembly in an upward direction, a latch release means comprising a lever pivoted to the rake head frame in operative engagement with the notched lever for releasing the same, and for rocking the rake head and the rake tine assembly to dumping position when a forwardly acting force is applied to the upper end of the latch release lever.

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**2,648,947**
**DOFFING MECHANISM FOR RING SPINNING, DOUBLING, AND TWISTING MACHINES**
**James Jackson Haythornthwaite, Accrington, England, assignor to T. M. M. (Research) Limited, Helmshore, Rossendale, England**
**Application April 24, 1951, Serial No. 222,588**
**In Great Britain April 26, 1950**
**10 Claims. (Cl. 57—52)**

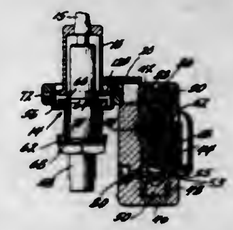
1. A ring spinning, doubling or twisting unit comprising, in combination, a spindle, a spindle rail supporting the spindle, a ring, a ring rail supporting the ring, said ring rail being located above the spindle rail and the rails being mounted for relative vertical movement for the purpose among others of relatively shifting the ring rail and the spindle into and out of doffing initiating relation, a yarn package carrier detachably supported on the spindle, normally driven by the spindle, and normally occupying a fixed vertical relation to the spindle, said package carrier forming a seat for the yarn package and incorporating two relatively rotatable components, the first of which normally drives the second in unison with itself, a cutter carried by the second of said components, a yarn catch carried by the first component in position automatically to grip the yarn when the ring rail and spindle are brought into said doffing initiating relation, and means for arresting the second component when the yarn has been gripped to cause the cutter to come to rest while the catch continues to rotate, the construction and arrangement being such that the continued rotation of the catch causes the gripped yarn to be tautened and sev-



ered against the arrested cutter, and means for intercepting and retaining the package carrier in association with the ring rail as relative separation of the spindle and the ring rail is effected after severance of the yarn, to cause the yarn package to be supported with freedom for doffing.

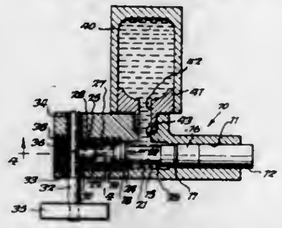
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**2,648,948**
**SPINDLE MOUNTING**
**Dimitri G. Soussloff, Warwick, and Arnold C. White, Greenwood, R. I., assignors to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts**
**Application April 25, 1951, Serial No. 222,837**
**14 Claims. (Cl. 57—89)**



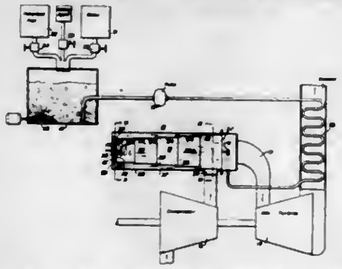
1. A spindle mounting for a twisting machine comprising a base member, a swing element adapted to receive means for rotatably supporting a spindle and having an aperture therein, a tubular member extending from said swing element and secured thereto in said aperture, a recess provided in said base member to receive the said extending tubular member, whereby said swing element is pivotally supported on said base member, a helical spring disposed within the said tubular member, means supported on the base member fixedly positioning one end of said spring with respect thereto, a spring anchorage adjustably supported in said tubular member for adjusting the tension of said spring, the other end of said spring being fixed to the said anchorage, and means for releasably securing said swing element to said anchorage in a desired position of adjustment of the anchorage.

2,648,949
**FLUID MOTOR**
Paul H. Taylor, Grand Island, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York
Application June 24, 1952, Serial No. 295,300
18 Claims. (Cl. 60—1)



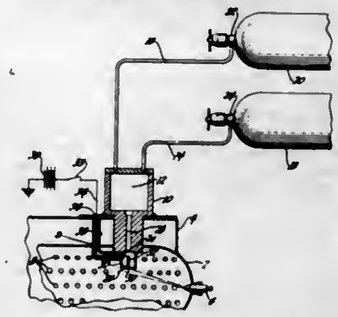
1. A fluid motor comprising a body provided with a pair of communicating chambers which are adapted to be filled with a liquid, a member movable into said body to compress the liquid contained in said chambers, a valve connected to said member to move therewith to close off one of said chambers from the other chamber when said member is moved inwardly of said body, and means for pressurizing and depressurizing the liquid in said one chamber.

2,648,950
**GAS TURBINE ENGINE APPARATUS DESIGNED TO BURN WET PULVERIZED FUEL**
Ernest F. Miller, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 24, 1949, Serial No. 112,021
2 Claims. (Cl. 60—39.46)



1. In an open cycle gas turbine arrangement wherein a gas turbine exhausting to the atmosphere drives a compressor for developing air under pressure at its discharge end; a combustor comprising a basket open at one end and having an end wall at its other end, an atomizing nozzle for discharging a spray of fluent mixture of water and pulverized fuel into the open end of the basket, and a casing encompassing the basket and cooperating with the latter to form a plenum chamber at the open end of the basket, to form a cylindrical space beyond the basket end wall, and to provide an annular passage which connects the plenum chamber to the cylindrical space; means including said plenum chamber, the annular passage, and the cylindrical space for supplying air under pressure from the compressor discharge end to the combustion chamber for flow therealong in countercurrent relation with respect to the discharge of the atomizing nozzle, whereby the water component of the spray discharge may first be evaporated in a zone of the basket adjacent to the atomizing nozzle and the dried fuel component may undergo combustion in a zone of the basket more remote from the nozzle to provide motive fluid consisting of steam and products of combustion for operation of the gas turbine; means including openings distributed along the basket and in the end wall thereof to provide for movement of air and gas along the basket and through the open end of the latter; and means utilizing heat of motive fluid exhausting from the gas turbine to the amtosphere to preheat the pumpable fluent mixture supplied under pressure to the atomizing nozzle.

2,648,951
**COMBUSTOR IGNITER CUP WHICH BECOMES INCANDESCENT FROM COMBUSTION THEREIN**
Taine G. McDougal, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 31, 1949, Serial No. 84,685
3 Claims. (Cl. 60—39.82)

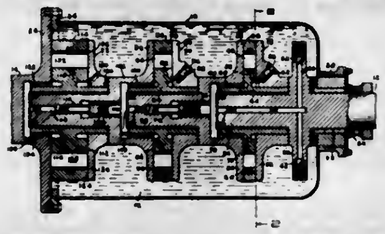


1. In a fuel ignition system, a plurality of receptacles containing gases under compression, said gases being adapted for mixing to provide a combustible mixture, an igniter having a housing defining a mixing chamber therein and a discharge passage communicating with said mixing chamber, means connecting said receptacles with said mixing chamber for conducting gases from said receptacles to said mixing chamber, said means being adapted to restrict flow of said gases from said receptacles to said mixing chamber at a ratio to provide a combustible mixture in said mixing chamber, a refractory metal cup attached to the said housing to surround said discharge passage outlet, said cup having a plurality of outlet apertures therein and being adapted to become incandescent by the combustion of gases therein, a resistance filament positioned within said cup with one end grounded thereto, and a source of current connected to the other end of said filament for providing current to cause said filament to glow and ignite said combustible mixture in said cup.

2,648,952
**ROTARY PUMP AND MOTOR HYDRAULIC TRANSMISSION**
Don E. Dasher, Birmingham, Mich.
Application February 14, 1948, Serial No. 8,329
9 Claims. (Cl. 60—53)

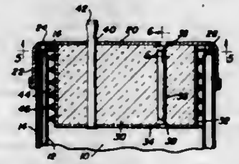
7. A transmission comprising a drive shaft, a driven shaft, a fluid pump comprising a rotor and a housing, the rotor of which is directly connected to the drive shaft, a fluid motor adapted to receive the discharge from the pump comprising a reaction member connected to the housing of the pump and a housing connected to the driven shaft, a centrifugally actuated valve carried





by the drive shaft for control of the flow of fluid to the pump, a pressure responsive valve intermediate the discharge of the pump and inlet to the motor for control of the flow of fluid therebetween, and means providing communication between the motor discharge and pump inlet.

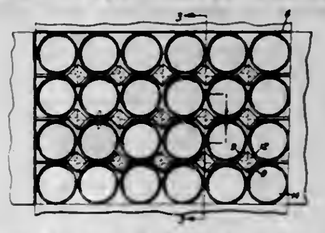
2,648,953
**LIQUID HELIUM CONTAINER WITH INSERTABLE HEAT EXCHANGER**
Gerard F. Sulfrian, Plainfield, N. J., and Howard S. Jacket, Brooklyn, N. Y., assignors to Hoffman Laboratories, Inc., Newark, N. J., a corporation of New Jersey
Application June 22, 1951, Serial No. 232,996
4 Claims. (Cl. 62—1)



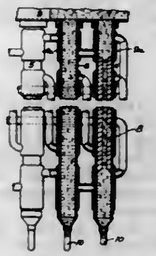
1. In combination with a double-walled liquid gas container open at its upper end, a cap to reduce heat leak comprising a heat exchanger having an upper wall and a depending annular wall engaging the outer wall of the container at its upper end, a hollow plug filled with a heat insulating material depending from the upper wall and having an annular wall spaced from said first-mentioned annular wall, a spirally arranged resilient heat insulating band carried by the annular wall of said plug and engaging the inner wall of the container at its upper end, said band defining a spiral passage between the annular wall of said plug, said upper wall having vent openings communicating with said spiral passage.

2,648,954
**REFRIGERATED CARTON**
Gordon D. Wheeler and James H. Reilly, Monte Vista, Colo.
Application September 7, 1950, Serial No. 183,492
5 Claims. (Cl. 62—91.5)

1. In a refrigerated carton, a partition in the carton, formed of a single sheet of material and having an opening therein, a tongue projecting horizontally from the partition at the lower portion of the opening and adapted to underlie and support a solid refrigerant in the opening in a position with the refrigerant exposed at opposite sides of the partition, and a pair of vertically extending wings projecting laterally from the partition in the region of the opening and opposing opposite sides of the refrigerant in supporting engagement therewith.



2,648,955
**METHOD OF AND MEANS FOR CRUSHING OR CRACKING ICE**
Aaron Lee and Eli Lieberman, Miami, Fla.
Application November 6, 1950, Serial No. 194,339
10 Claims. (Cl. 62—105)

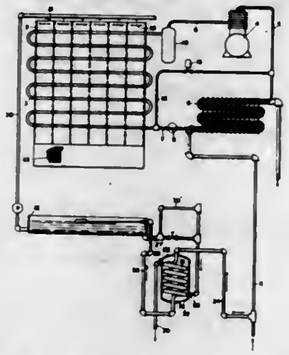


1. The herein described method of manufacturing crushed or cracked ice which consists of freezing water in elongated tubes to form elongated columns of ice, forcibly ejecting said columns from the tubes and splitting the columns of ice under the momentum of said columns and successively throughout the movement of ejection of said columns.

2,648,956
**ICE MAKER**
James L. Fletcher, Fayetteville, and Samuel C. Osborne, Syracuse, N. Y., assignors to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application January 19, 1950, Serial No. 139,366
5 Claims. (Cl. 62—107)

1. In an ice maker, the combination of a plurality of tubes in which ice is formed, means for refrigerating the tubes including a water-cooled condenser, means for heating the tubes to harvest formed ice, a water tank, means to circulate water from the tank through the tubes while the tubes are being refrigerated, cooled water unused in the formation of ice returning to the tubes, and means for preventing substantial concentration of minerals in the cooled water without substantial loss of refrigeration capacity, said means including a control for maintaining a desired level of water in the tank, a line through which cooling water is supplied to the condenser, a line connected to the condenser water line for continuously supplying fresh water to the tank, a third line connected to a drain for bleeding water from the tank, a shell member in the third line containing an inlet adjacent one end and an

outlet adjacent an opposite end, a coil extending through said shell connected to the fresh water line so that the stream of fresh water being supplied to the tank flows through said shell in counterflow heat exchange relation with the stream of water removed from the tank passing through the shell.



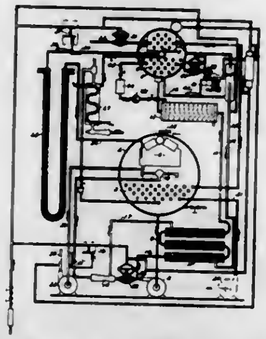
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**2,648,957**

**ABSORPTION REFRIGERATION SYSTEM, INCLUDING MEANS FOR PLACING STEAM CONDENSATE AND WEAK SOLUTION IN HEAT EXCHANGE RELATION**

**Alexis A. Berestneff, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware**

**Application November 25, 1950, Serial No. 197,574**
**4 Claims. (Cl. 62—119)**



1. In an absorption refrigeration system, the combination of an absorber, an evaporator, a generator, and a condenser disposed in a closed circuit, means for circulating strong solution from the generator to the absorber, and for circulating weak solution from the absorber to the generator, means for supplying a heated vapor to the generator in heat exchange relation with solution therein thereby condensing the vapor, a line through which condensate leaves the generator, a steam trap in said line, a pre-heater for weak solution, and a second line connecting the pre-heater with the steam trap to supply condensate from the generator to the pre-heater for passage in heat exchange relation with weak solution flowing to the generator.

**2,648,958**

**FLEXIBLE COUPLING**

**Karl Schlotmann, Massen, near Unna, Germany, assignor to Maschinenfabrik Stromag-G. m. b. H., Unna, Germany**

**Application December 19, 1949, Serial No. 133,729**
**In Germany December 28, 1948**
**2 Claims. (Cl. 64—13)**



1. A flexible coupling comprising a pair of spaced shafts, a pair of flanged coupling elements each secured to one of said pair of shafts, each of said pair of coupling elements having a shoulder at the periphery thereof substantially L-shaped in cross-section, a flexible torsion member coupling said pair of coupling elements, said torsion member comprising a main body and a pair of internally reinforced edge portions each resting in said shoulder of one of said pair of coupling elements and each projecting at a substantially right angle from the general plane of said torsion member, and a pair of clamping rings substantially L-shaped in cross-section securing said torsion member to each of said pair of coupling elements, each of said pair of clamping rings having a radially inner clamping surface engaging one of said pair of edge portions of said torsion member along a first circular clamping area, and each of said pair of clamping rings having a radially outer clamping surface radially spaced from said radially inner clamping surface and engaging said torsion member along a second clamping area arranged coaxially with respect to said first clamping area, a circular zone where said torsion member is less compressed by each of said pair of clamping rings than at each said first clamping area and each said second clamping area being formed between each said first clamping area and each said second clamping area.

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**2,648,959**

**DUSTPAN**

**Theodore P. Budzyna, Worcester, Mass.**

**Application May 16, 1951, Serial No. 226,714**
**1 Claim. (Cl. 65—20)**



In a dust or rubbish pan of the class described, a pan body formed from a single piece of sheet metal, cut and bent to provide a bottom, a rear wall, and a pair of side walls, the latter having rearward extensions bent about the side edges of said rear wall and welded thereto, a reinforcing strip of angular cross section welded to said bottom and to said rear wall at the juncture thereof, casters attached to the underlying portion of said strip, a substantially flat reinforcing strip enclosed by folds of the upper edge of said rear wall, to lie in substantially parallel relation to rearward portion of said first strip, a pair of vertically alined annular brackets, associated respectively with said substantially parallel strip portions, a threaded member extending through each of the latter for attachment thereto of its associated bracket, and a handle member for said pan, passing through both of said brackets and held in the desired position of vertical adjustment by said threaded members.



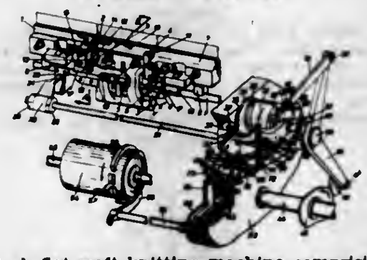
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**2,648,960**

**APPARATUS FOR THE MANUFACTURE OF STOCKINGS IN A SINGLE WORKING PROCESS**

**Jaroslav Václavík, Gottwaldov I, and Miroslav Kopřiva, Gottwaldov II, Czechoslovakia, assignors to Svit, národní podnik, Gottwaldov, Czechoslovakia**

**Application November 1, 1950, Serial No. 193,334**
**In Czechoslovakia November 29, 1949**
**2 Claims. (Cl. 66—82)**



1. A flat weft knitting machine comprising a divided needle bar having relatively fixed end sections and a relatively rockable middle section which is tiltable out of working position, a lifting device slidably mounted on said middle section and means part of which is carried by said end sections for automatically raising and lowering said lifting device while said middle section is tilted out of working position.

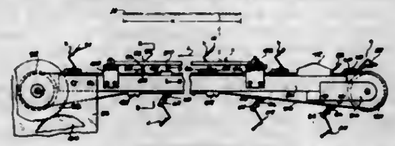
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**2,648,961**

**MULTIFILAMENT-RESPONSIVE THREAD BREAK DETECTOR**

**Clyde B. Hayes, Wolcott, Conn., assignor of two-thirds to Harry Fleisher, Watertown, Conn., Max Doft, Cedarhurst, N. Y., and Harley Wilson, Watertown, Conn.**

**Application July 31, 1951, Serial No. 239,448**
**10 Claims. (Cl. 66—163)**



1. A multi-filament-responsive thread break detector comprising an extremely light sensing element, a carrier, means to mount said carrier for movement transversely beneath the path of a large number of threads, means to mount said element on said carrier for movement with respect to said carrier between an unactuated position and an actuated position and in a direction having a substantial component parallel to the direction of movement of said carrier, a pair of elongated members disposed on opposite sides of the path of travel of said element slightly below the distal end thereof, the unactuated position of said element leading the actuated position thereof and said element normally being disposed in unactuated position whereby when a slack thread falls in the path of travel of said element it will impede motion of said element and cause said element to shift from unactuated to actuated position, and electric circuit closing means rendered effective upon movement of said sensing element to actuated position.

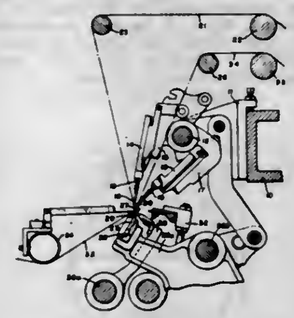
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**2,648,962**

**STOP MOTION MECHANISM FOR WARP KNITTING MACHINES**

**Theodore F. Schwanda, Bangor, Pa., assignor to Blue Ridge Textile Co., Inc., Bangor, Pa., a corporation of Pennsylvania**

**Application October 8, 1951, Serial No. 250,215**
**14 Claims. (Cl. 66—166)**



1. In a warp knitting machine having thread guides and stitch forming means arranged to produce mesh fabric and means for advancing the fabric, the combination of grounded means adjacent the line of stitch formation and in the path of advance of the fabric, feeler means yieldingly engaging said fabric at a plurality of spaced points in the region of said grounded means, an electric circuit arranged to be completed upon engagement of said feeler means with said grounded means, and electrically operated means responsive to the closing of said electric circuit upon engagement of said feeler means with said grounded means through an oversized opening in said fabric for arresting the operation of said machine.

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**2,648,963**

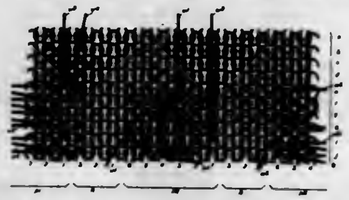
**KNITTED WARE AND METHOD OF PRODUCING SAME**

**Henry Harold Holmes, Leicester, England, assignor to Wildt and Company Limited, Leicester, England, a British company**

**Original application August 3, 1947, Serial No. 767,546. Divided and this application May 3, 1948, Serial No. 24,857. In Great Britain March 27, 1939**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires March 27, 1959**
**3 Claims. (Cl. 66—189)**

1. Broad rib knitted ware comprising multi-wale panels of inwardly facing rib knitted loops alternating with multi-wale panels of outwardly facing plain knitted loops, and a plurality of wrap threads each of which is included in all the plain knitted loops, including the two endmost loops, in the same course, in a plain knitted

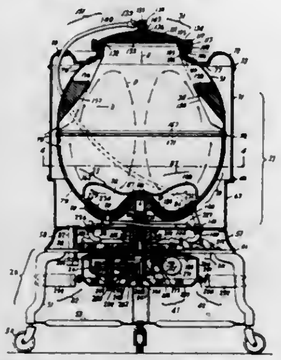
panel that is at least four wales wide, the groups of wrapped loops being thereby separated,



coursewise, to the extent only of one rib knitted panel.

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**2,648,964**
**WASHING MACHINE**
**George C. Graham, Ridgewood, N. J., assignor, by mesne assignments, to Graham & Barker, Ridgewood, N. J., a limited partnership**
**Original application November 30, 1939, Serial No. 306,797. Divided and this application March 2, 1946, Serial No. 651,497**
**2 Claims. (Cl. 68—174)**

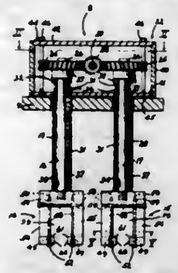


1. In a washing machine, a tub, means for moving said tub about an upright axis, separated baffle members for agitating the contents of the tub and respectively located in the regions of said tub above and below the center thereof, a diaphragm mounted in said tub, and means for causing the diaphragm to move the contents of the tub away from the lower baffles whereupon only the upper baffles will be effective to agitate the contents of the tub as the tub is moved.

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**2,648,965**
**DEVICE FOR REMOVING LIQUID FROM FILAMENTARY STRANDS**
**Charles W. Cox, St. Albans, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**
**Application May 10, 1949, Serial No. 92,286**
**8 Claims. (Cl. 68—241)**

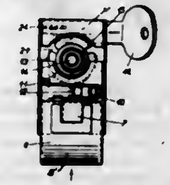
1. An apparatus for stripping a liquid from multiple-filament strands comprising a plurality of similarly aligned bifurcate members having parallel axes of rotation extending in a direction generally parallel to the longitudinal direction of the opposed inner surfaces of the members, parallel shafts extending from the members, intermeshing gear members connecting the shafts for rotation in unison, a manual controller, and a worm gear drive connecting the controller



with at least one shaft for turning all of the members simultaneously.

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**2,648,966**
**PUSH KEY OPERATED HASP LOCK**
**Bohumil Polák, Prague, Czechoslovakia, assignor to Koh-I-Noor, Spojene Kovoprumyslove Zavody, narodni podnik, Prague, Czechoslovakia**
**Application June 28, 1950, Serial No. 170,773**
**In Czechoslovakia July 12, 1949**
**3 Claims. (Cl. 70—74)**



1. In a push key operated hasp lock of the type described including a longitudinally slidable locking member, an arresting device for said locking member, said arresting device comprising in combination a projection extending from said locking member; a ratchet or star wheel revolvable about an axis perpendicular to the direction of slide motion of said projection; ratchet teeth on the face of said wheel for cooperation with a bit on a push key upon its insertion into the lock for rotating said wheel; the said wheel arranged to block with its circular rim the slide motion of said projection and being mounted for slidable displacement in axial direction; a spring for holding said wheel in engagement with said bit; and said wheel having a plurality of notches radially extending inwardly from the rim thereof to receive said projection when aligned therewith and to thus allow displacement of said locking member, each one of said notches being arranged after each second ratchet tooth.

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**2,648,967**
**LOCKING DEVICE FOR WINDOW LATCHES**
**Neil O. Holmsten, New Rochelle, N. Y.**
**Application December 22, 1949, Serial No. 134,576**
**6 Claims. (Cl. 70—89)**

6. A locking device comprising a base plate to be attached to a member to be locked, a cylindrical support carried by said base plate and extending outwardly therefrom, a hub carrying a latch member for rotation therewith and being journalled on the outside of said cylindrical support, a key-actuated lock cylinder rotatably mounted inside of said support and adapted to be locked against rotation in said support, an

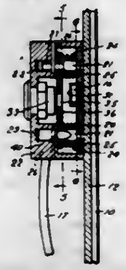


arcuate slot in said support and means extending through said slot for securing said lock cylinder to said hub to prevent rotation of said hub with respect thereto.



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**2,648,968**
**LOCKING DEVICE**
**Neil O. Holmsten, New Rochelle, N. Y.**
**Application December 22, 1949, Serial No. 134,577**
**3 Claims. (Cl. 70—89)**

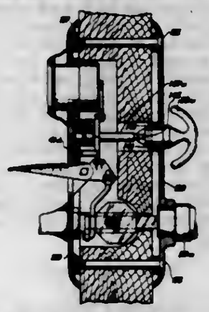


1. A locking device for a movable member closing against a fixed frame and carrying a latch finger swingable over said frame about an axis normal thereto for latching said movable member to said frame, said locking device comprising a pin fixed to said frame with its axis normal thereto, a housing slidable axially on said pin, stop means limiting the movement of said housing on said pin between retracted and advanced positions, said housing having a recess to receive and secure said latch finger when in advanced position and having a clearance to permit said latch finger to swing thereunder when in retracted position, a shoulder on said pin, a latch member carried by said housing engaging said shoulder to latch said housing in advanced position, and a lock cylinder mounted in said housing and connected to actuate said latch member for releasing said housing for sliding on said pin to retracted position.

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**2,648,969**
**DOOR LOCKING MECHANISM**
**Julius Miller, Valley Stream, and Abe Deutscher, Jamaica, N. Y.**
**Application February 16, 1950, Serial No. 144,542**
**7 Claims. (Cl. 70—146)**

5. In combination with a door latch mechanism of the type having a spring-loaded retractable latch member movable between a retracted position within the door and an operative position extending outwardly from the door and normally yieldably urged into its said operative position, and a thumb-piece pivotally mounted on said door and operatively connected to the latch member for operatively actuating it between its said retracted and operative positions, releasable locking means for said thumb-piece comprising a lock member extending inwardly from one face of the door and a blocking member within the body of the door engageable with and movably operable by said lock member between two limiting positions, one of said positions being that in which the blocking member is in non-obstructing relation with the thumb-piece, the other of said positions being that in which the blocking member is in obstructing relation with the thumb-piece in its locking position, whereby the latter is held against pivotal movement when in its said



locking position, a knob operatively connected with said latch member and rotatable independently of said thumb-piece and said locking means to actuate the latch member to its retracted position, an auxiliary knob operatively connected to said blocking member for moving it between its said limiting positions, an escutcheon attached to one face of said door and operatively supporting said thumb-piece and lock member, and a second escutcheon fixed to the opposite face of said door and operatively supporting said knob and said auxiliary knob.

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**2,648,970**
**GAS TANK LOCK**
**Emil Price, Los Angeles, Calif.**
**Application May 6, 1952, Serial No. 286,240**
**8 Claims. (Cl. 70—165)**

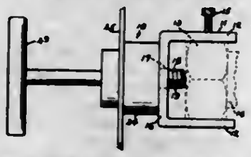


1. In a locking cap of the type described: an inner cap assembly including an inner cap having means operable, upon rotation thereof, to secure the same to a member to be capped; a cylindrical barrel secured to the inner side of said inner cap, coaxial therewith, said barrel having therein, a guide part provided with a bore extending therethrough, said bore being radially spaced from and parallel with the longitudinal axis of the guide part; a lock tumbler cylinder secured to said inner cap, radially inwardly of said guide part, extending into said barrel and having an outer end portion provided with a radial flange overlying the outer end of said bore; an outer cap enclosing the inner cap and having a central portion defining an opening receiving said outer end portion of the tumbler cylinder, said central portion being rotatably mounted between said inner cap and said flange; said caps having respective ports adapted to be registered with each other by

relative rotation between the caps; a lock tumbler core rotatably mounted within said cylinder and having tumbler means coacting with said cylinder for locking the core to the cylinder; a head secured to the inner end of said core and having a radially projecting camming finger; a clutch part axially slidable in said barrel from a position abutting said guide part to a position axially separated therefrom; end abutment means carried by the inner end of said barrel; a spring interposed under load between said end abutment means and said clutch part and urging the latter toward abutment with said guide part; a clutch pin axially slidable in said bore, having an inner end secured to said clutch part and its outer end adapted to extend through said ports when the latter are registered, thereby to clutch said outer cap to said inner cap assembly; and a camming ramp at the inner margin of said clutch part, coacting with said finger to cause said clutch part to move away from said guide part when said tumbler core is rotated, thereby to withdraw said clutch pin from the port of said outer cap and thus free said outer cap for rotation relative to said inner cap.

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**2,648,971**
**LOCKING DEVICE**
**Marshall Jones, New York, N. Y.**
**Application March 1, 1949, Serial No. 78,951**
**3 Claims. (Cl. 70—229)**

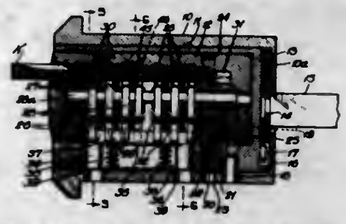


1. A locking device comprising a clamp, and a housing having a centrally disposed opening, a threaded shaft for engagement with said centrally disposed opening and said clamp, a spacing means carried by said threaded shaft, a squared portion on said spacing means, a shaft on said squared portion having a bore, means having bores mounted on the squared portion and held in spaced relation in said housing by said spacing means, a rotatable means mounted in said housing having bores and mounted on the shaft on said squared portion, a recess in one face of said rotatable means for receiving the means on the squared portion of said spacing means, the bores in said rotatable means adapted for alignment with the bores in said means on the squared portion on said spacing means, whereby access may be had to the bores on the means on the squared portion to rotate said shaft.

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**2,648,972**
**TUMBLER LOCK WITH FREELY ROTATING KEY PLUG**
**Richard H. Diesel, Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application September 3, 1947, Serial No. 771,913**
**19 Claims. (Cl. 70—366)**

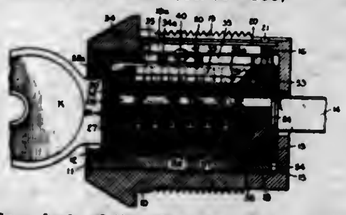
17. In a lock of the class described, a cylinder, a sleeve rotatable in said cylinder, a key plug rotatable in said sleeve, tumblers pivotally mounted in said key plug on an axis parallel to the axis of rotation of said key plug and having each a peripheral portion moving in substantial alignment with the outer periphery of said key plug, said peripheral portions of said tumblers having gatings formed therein, spring means pressing said tumblers toward a predetermined position, said tumblers being movable by a key against the pressure of said spring means to bring said gatings into alignment, a clutch bar mounted for movement relatively to said key plug, sleeve and cylinder, a spring pressing a part of said clutch bar toward said gatings and for entry into said gatings whereby to clutch



said key plug to said sleeve when said gatings are aligned, said key plug being freely rotatable in said sleeve when said tumbler gatings are not aligned, said clutch bar then riding at least partially on the peripheral portions of said tumblers, and a detent portion on said clutch bar for locking said sleeve to said cylinder when said clutch bar is out of the tumbler gatings, the entry of the clutch bar into the tumbler gatings releasing said sleeve for rotation with said key plug relatively to said cylinder.

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**2,648,973**
**LEVER TUMBLER CYLINDER LOCK**
**Roy Clifton Spain, Salem, Va., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application October 21, 1947, Serial No. 783,413**
**18 Claims. (Cl. 70—366)**

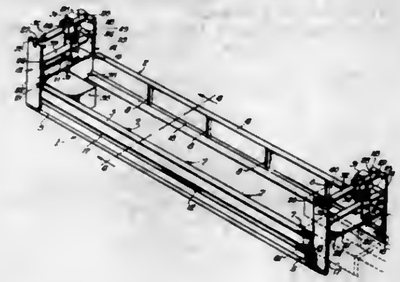


2. In a lock of the class described, a cylinder a sleeve rotatable in said cylinder, a key plug rotatable in said sleeve and movable endwise relatively thereto, key set tumblers mounted for movement in said key plug and having peripheral portions, said peripheral portions of said tumblers having gatings therein, a clutch member for clutching said key plug to said sleeve mounted in an opening on said sleeve and having a fence portion facing said tumblers, the peripheral portions of said tumblers holding said clutch member out of clutching position until said tumblers are key set with their gatings aligned, means on said clutch member locking said sleeve to said cylinder when said clutch member is out of clutching position, the alignment of said gatings by key action effecting the entry of said clutch member in said gatings to clutch said key plug and sleeve for rotation together relatively to said cylinder while releasing said sleeve from said cylinder, spring means for yieldingly holding said sleeve against rotation with said key plug after said sleeve is released from said cylinder, a cam surface on said key plug for ejecting said clutch member from said gatings upon endwise movement of said key plug incidental to the withdrawal of the key from said key plug, the insertion of said key into said key plug moving said key plug endwise in a reverse direction for releasing said clutch member for movement toward said tumblers.



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**2,648,974**
**MEANS TO FACILITATE THE LAYING OF MASONRY UNITS**
**Paul H. Semmers, Montgomery, Ala.**
**Application May 24, 1949, Serial No. 95,126**
**21 Claims. (Cl. 72—129)**



1. A device of the class described comprising a pair of oblong face plates adapted to be brought into parallel vertical planes spaced apart by a distance equal to the thickness of the wall being erected and having their upper longitudinal edges disposed horizontally, upwardly extending arms connected to said plates, a pair of reaches having pivotal connection on horizontal longitudinally extending axes with said arms adjacent the ends of said plates and adjacent the upper edges of said plates, said reaches having shoulders below said pivotal connections constructed and arranged to stop said plates in parallel vertical position, and actuating means comprising collapsible struts connected to said arms above said pivotal connections to said reaches for swinging said plates on said pivotal connections to open and close said plates relative to said stops and to lock the plates against the stops and parallel to each other.

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**2,648,975**
**DEVICE FOR TESTING IMPACT RESISTANCE OF FRANGIBLE ARTICLES**
**Joseph Robert Eves, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application November 30, 1948, Serial No. 62,729**
**7 Claims. (Cl. 72—12)**

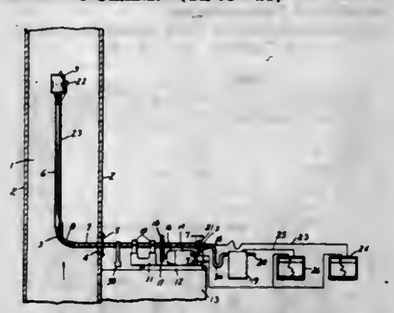
4. A device for testing the resistance of glass articles to impact of a substantially round object dropped thereon comprising a base having supporting means for carrying the article to be tested, an upright on said base, a cap member carried by said upright and disposed above the article supporting means, said cap member having a vertical opening therein through which said object is dropped, the opening being in substantial vertical alignment with the article supporting means, means connected to said cap member adjacent said opening for controlling the release of said object comprising a vertically disposed tubular member having one end attached to the said cap member with the opening in the cap member communicating with the interior of the tubular member to permit passage of the object from the opening into the tubular member, the walls of said tubular member being of



a flexible nature to permit by adjusting the length of said tubular member a simultaneously adjustment of the diameter thereof and means for adjusting said length so as to cause said walls of the tubular member to engage the object with the desired amount of friction as it passes therethrough in dropping onto the article.

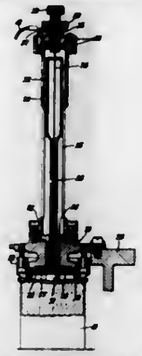
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**2,648,976**
**METHOD AND APPARATUS FOR GAS SAMPLING AND RECORDING ANALYSES AND TEMPERATURES**
**Armand Bar, Cleveland, Ohio, assignor of one-half to John F. Robb, John W. Robb, both of Cleveland Heights, and Frank B. Robb, Cleveland, Ohio, jointly**
**Application April 12, 1946, Serial No. 661,583**
**9 Claims. (Cl. 73—23)**



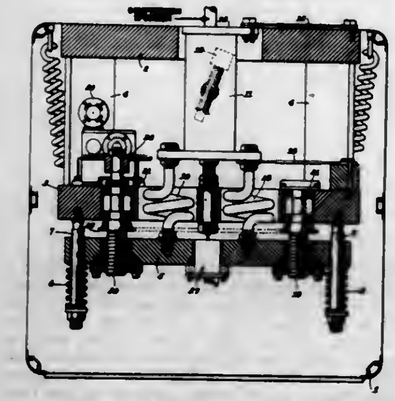
1. The method of taking gas samples from a duct or passage through which gases are passing, which includes moving the sample receiving portion of a sampling tube in different directions over a section of the area of said duct, and recording the analyses of the samples received by the tube in one manner as the tube moves in one direction, and in a different manner as the tube moves in another direction.

2,648,977
**APPARATUS FOR DETERMINING PRESSURE IN CONTAINERS**
John Mills, Drexel Hill, Pa., assignor to Hires, Castner & Harris, Inc., Philadelphia, Pa., a corporation of Delaware
Application August 24, 1948, Serial No. 45,816
6 Claims. (Cl. 73—52)



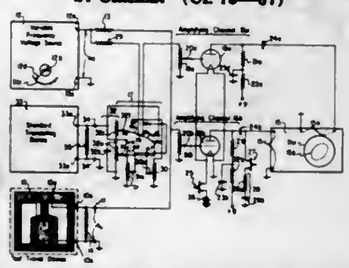
1. A device for determining the internal pressure in a sealed container having a relatively flat top which comprises a liquid reservoir communicating with a column in which the liquid rises upon compression of the reservoir, a diaphragm arranged to compress said reservoir, a projection attached to said diaphragm, said diaphragm being flexible but sufficiently stiff and strong to press said projection against said top with sufficient force to produce inward deflection thereof, and means fixed to said device to bear against the outer portion of said top and thereby space said diaphragm a predetermined minimum distance from said top.

2,648,978
**FATIGUE TESTER WITH MEAN POSITION CONTROLLER**
Theodore R. Breunich, Stamford, Conn., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application June 3, 1950, Serial No. 166,837
6 Claims. (Cl. 73—67)



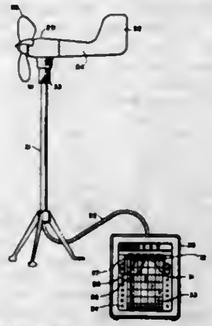
1. The combination comprising means deflectable for statically pre-loading a specimen so that the specimen is initially deflected a predetermined amount, means for subjecting the specimen to a vibrating force superimposed upon the static force so that the specimen deflection is alternately increased above and decreased below said static deflection as a mean, means for sensing variations in the mean deflection of the pre-loading means from a predetermined average value, and means controlled by said sensing means for adjusting the pre-loading means to maintain a predetermined average pre-load force.

2,648,979
**TRANSDUCER TESTING APPARATUS**
Jesse R. Cornett, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware
Application August 9, 1946, Serial No. 689,474
27 Claims. (Cl. 73—67)



1. Apparatus for determining at least one of the physical parameters of an electrical transducer provided with a pick-up or operating winding, comprising an alternating current voltage source, circuit means including a decoupling impedance for impressing the voltage of said source across the terminals of the winding, and means coupled to said source and the winding for measuring the phase relationship between the voltage thereacross.

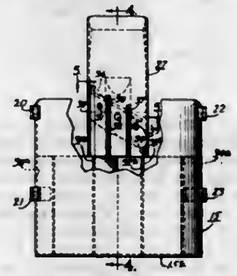
2,648,980
**APPARATUS FOR MEASURING AND RECORDING THE DIRECTION AND VELOCITY OF WIND**
Louvan E. Wood, Glen Arm, and Vernon D. Hauck, Towson, Md., assignors to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application October 27, 1949, Serial No. 123,868
17 Claims. (Cl. 73—189)



7. In combination, a transmitter responding to wind velocity and direction; means carried by said transmitter for generating an impulse of fluid pressure in response to a predetermined quantity of wind flow; four paths carried by said transmitter for directing the flow of said impulse of fluid pressure, said paths corresponding to the cardinal compass directions north, south, west and east; valve means carried by said transmitter responsive to wind direction for directing said impulse of fluid under pressure in at least one of said paths; flexible means coupled to said transmitter for carrying said four paths to a point remote from said transmitter; a recorder stationed at said remote point and including four fluid pressure responsive means, said flexible means being coupled to said recorder for connecting each of said paths to a corresponding fluid pressure responsive means; four pens carried by said recorder, each one of said pens being operatively linked to a corresponding fluid pressure responsive means and adapted to be moved thereby to record wind direction; and a chart cooperating with said pens, said chart moving at a predetermined rate past said pens.



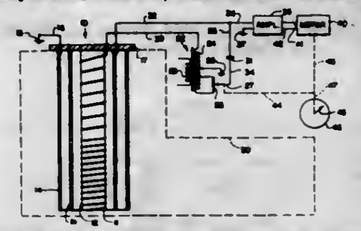
2,648,981
**FLOWMETER**
Willard M. Drake, Jr., Haddonfield, N. J.
Application July 19, 1951, Serial No. 237,495
7 Claims. (Cl. 73—215)



1. Apparatus for determining rate of liquid flow, comprising a container having vertical partitions dividing it into a plurality of liquid-receiving compartments, and a receptacle mounted on the upper part of said container to receive a flowing stream of liquid and having a plurality of vertically-spaced outlet orifices corresponding in number to the number of said compartments and arranged respectively to discharge liquid into the respective compartments, said orifices establishing different levels in said receptacle which are reached by the liquid according to its rate of flow, each orifice representing a liquid flow determined by the volume of said receptacle below that orifice and by the size of any lower orifice, whereby the maximum rate of flow of the liquid in said stream during a given time is indicated at the end of that time by the number of said compartments containing liquid.

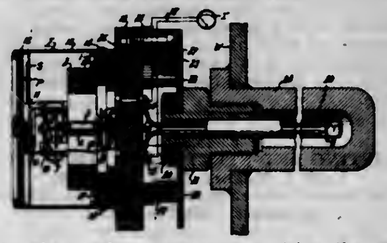
2,648,982
**LIQUID LEVEL INDICATING APPARATUS**
Raymond J. Condon, Osborn, Ohio, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 28, 1950, Serial No. 192,679
7 Claims. (Cl. 73—304)

1. A capacitor for measuring the quantity of a substance in a non-uniform container, comprising: a first longitudinal conductive member adapted to be positioned vertically in the container, said member comprising one plate of the capacitor; and a coiled conductive member positioned along the length of said first member and parallel thereto, said coiled member com-



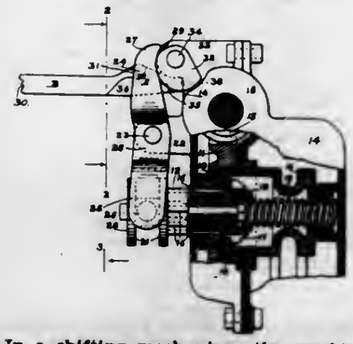
prising the second plate of the capacitor, the spacing between the turns of the coil being determined by the horizontal cross-sectional area of the container such that the capacitance of the capacitor varies uniformly with change in volume of the substance.

2,648,983
**ELECTRICAL THERMOMETER FOR MEASURING HIGH TEMPERATURES**
Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application March 16, 1950, Serial No. 149,842
1 Claim. (Cl. 73—359)



An electrical pyrometer comprising the combination with a thermocouple casing having a threaded head for mounting the casing in a correspondingly threaded opening, a thermocouple within the casing, and a measuring instrument of permanent magnet-moving coil type energized by said thermocouple and having a scale graduated in values of temperature; of means supporting said instrument upon said mounting head and shielding said instrument from high temperatures to which said thermocouple may be exposed; said supporting means including a disk of heat resistant and heat insulating material to which said instrument is secured, a plurality of polished heat reflecting disks extending transversely across substantially the entire path of heat transmission from said mounting head to said instrument, one of said disks being secured to said mounting head and another being secured to the inner face of said disk of heat resistant and heat insulating material, and a plurality of spacers of heat resistant and heat insulating material between and spacing said polished heat reflecting disks from each other, said spacers being positioned between the edge portions of said polished heat reflecting disks and circumferentially spaced from each other to provide passages between said polished heat reflecting disks for convection cooling air currents.

**2,648,984**
**CLUTCH ACTUATING MEANS FOR HAND BRAKES OF RAILWAY CARS**
**Roland J. Olander, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application August 5, 1950, Serial No. 177,868**
**6 Claims. (Cl. 74—96)**



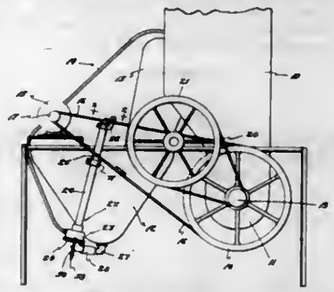
1. In a shifting mechanism, the combination with a lever pivoted between its ends, said lever having one end connected to an element to be shifted; of a second lever pivoted at one end and having a cam head at said pivoted end engageable with one side of the other end of said first named lever for swinging the latter in one direction; and a lug on said second named lever between the ends of the same engageable with the opposite side of said other end of said first named lever for swinging the same in reverse direction.

**2,648,985**
**HOISTING AND STRETCHING APPARATUS**
**Louis V. Mallory, Rock Island, Ill.**
**Application October 22, 1951, Serial No. 252,566**
**11 Claims. (Cl. 74—141.5)**



1. In a hoisting jack of the class described, a supporting bar, a pair of clutch blocks slidably mounted thereon, a manually operable handle pivotally connected to said blocks and arranged to exert pressure thereon in opposite directions simultaneously, an oblique bore formed in each block and a ball mounted in each bore springheld in contact with the bar, plungers slidably mounted in the blocks with their inner ends arranged to contact the balls and move them out of contact with the bar when depressed, coacting strips operable by the handle in either direction slidably mounted on each block and having inturned flanges in position to actuate the plungers, and means whereby intermediate strokes of the handle in the middle portion of its possible travel will advance the blocks in alternation while full length strokes of the handle will cause the blocks to retreat in alternation.

**2,648,986**
**PUMP DRIVE**
**Morris W. Guyer, Spokane, Wash., assignor to Calkins Manufacturing Company, Spokane, Wash., a corporation of Washington**
**Application June 13, 1949, Serial No. 98,834**
**3 Claims. (Cl. 74—221)**



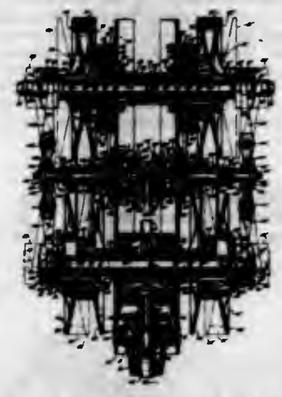
1. Drive mechanism adapted to drive the shaft of a pump from a portion of a V-belt intermediate its supporting pulleys comprising a supporting column for said shaft, a bearing for said shaft in the upper end of said column, a drive wheel fixed on the shaft above the bearing, said drive wheel having a peripheral face for engaging a V-belt, a V-belt supported in tangential engagement with said peripheral face, a bracket on said column, a roller on said bracket having a peripheral face opposite the peripheral face of the drive wheel, the roller having its axis in a common plane with the axis of the drive wheel, the adjacent faces of the roller and the wheel in said plane being at substantially the same angle to each other as are the opposed driving faces of the V-belt to each other to urge the belt against said drive wheel, and a second roller on said bracket bearing on the outer surface of the belt to press it against the faces of the drive wheel and the first named roller.

**2,648,987**
**VARIABLE-SPEED V-BELT TRANSMISSION**
**George W. Curtis, Wauwatosa, Wis.**
**Application January 11, 1949, Serial No. 70,313**
**16 Claims. (Cl. 74—230.17)**

1. In a variable speed V-belt transmission a driving pulley formed with a peripheral groove and having a side member movable axially to vary the width of said driving pulley groove, a driven pulley formed with a peripheral groove and having a side member movable axially to vary the width of said pulley groove; an endless V-belt connecting said first and second pulleys; a pair of coaxial relatively rotatable and axially movable cam members normally in neutral position, a first relatively weak spring normally urging said cam members together; means between said cam members for controlling approaching

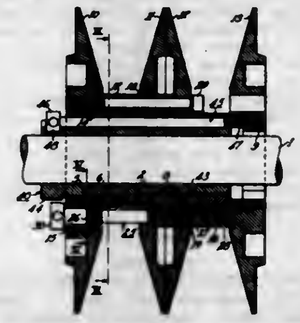


movement thereof upon relative rotation of said cam members in either direction from their neutral position; a first lever means connected to the movable side member of



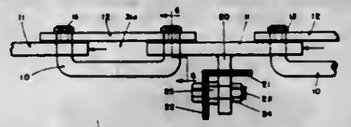
said driven pulley; and a second relatively strong spring acting against the cam member which is connected to said first lever means and acting against the second lever means to urge the movable side members of said pulleys against said belt with equal pressures.

**2,648,988**
**ADJUSTABLE PITCH SHEAVE**
**Thomas C. Knudsen, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.**
**Application March 5, 1952, Serial No. 274,863**
**5 Claims. (Cl. 74—230.17)**



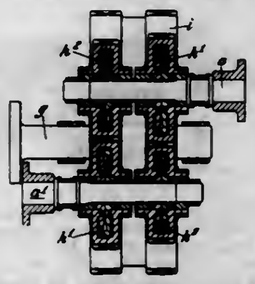
1. A variable pitch sheave construction comprising a support member with a generally cylindrical external surface and a slot defined in said external surface having axially spaced walls perpendicular to the axis of said support member, an actuating screw revolvable about an axis parallel to the axis of said support member having a threaded collar extendable into said slot and an oppositely threaded section axially spaced from said collar, a first annular disk slidably mounted on said support member having a threaded surface for threaded engagement with said collar which extends the entire width of said disk parallel to the axis of said first disk and which appears in section as an arc intersecting the inside circumference of said first disk, a second annular disk slidably mounted on said support member for threaded engagement with said oppositely threaded section on said actuating screw, and means for rotating said actuating screw in either direction whereby axial movement of said disks toward and away from each other may be effected.

**2,648,989**
**DEMOUNTABLE U-LINK CHAIN FOR BARN CLEANERS**
**Nat Cordis, Silver Lake, Wis.**
**Application March 13, 1950, Serial No. 149,319**
**5 Claims. (Cl. 74—245)**



4. A sprocket chain construction including alternate flat plates and demountable links adapted to accommodate the teeth of a sprocket, each such demountable link comprising a member of round stock having an elongated base and parallel upturned pintle-like legs, the said legs being round and the axes of said legs extending at right angles to the axis of the said base, an annular groove encircling each said pintle-like leg and spaced inwardly from the end thereof to provide a head on each leg, a removable flat side bar arranged between legs of the same member below said grooves, side bar stop means on each leg spaced below said grooves a distance which corresponds to the thickness of said flat side bar, and a spring ring in each said groove retaining said side bar and alternate plates on said pintle-like legs.

**2,648,990**
**POWER TRANSMISSION MECHANISM**
**Thomas Hindmarch, Chesham, England**
**Application March 30, 1951, Serial No. 218,396**
**In Great Britain June 18, 1947**
**3 Claims. (Cl. 74—361)**

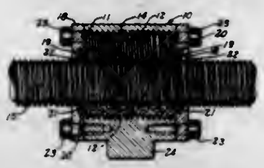


1. A power transmission mechanism comprising at least one pair of units, each unit having a first shaft, a second shaft mounted for rotation parallel thereto, a friction clutch mounted on said first shaft and having an inner friction member drivingly connected to said first shaft, a friction clutch mounted on said second shaft and having an inner friction member drivingly connected to said second shaft, the clutch on the first shaft having an outer friction member drivingly engaging an outer friction member on

the clutch on the second shaft by means of teeth on each said friction member, the pair of shafts of one unit in a pair of units being in extension of the pair of shafts of the other unit in the same pair of units, each unit being driven by way of one of the members of the clutch on the said first shaft, and an output shaft having a gear wheel thereon which is driven alternatively from each shaft in each unit in opposite directions by the engagement and disengagement of the appropriate clutches.

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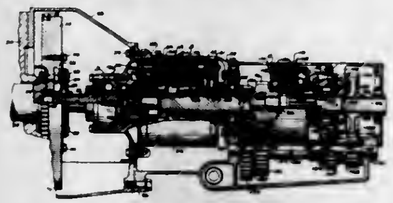
**2,648,991**
**ROLLER BEARING NUT**
**Howard G. Henry, Detroit, Mich.**
**Application August 5, 1952, Serial No. 302,788**
**4 Claims. (Cl. 74—424.8)**



1. In a roller bearing nut, a housing, there being a plurality of equally spaced bores arranged in said housing, said housing being provided with a longitudinally extending passageway for receiving a lead screw, a roller arranged in each of said bores and provided with means for engaging with the threads on said lead screw, a plate arranged on each end of said housing, said plates having their inner surfaces cut away to define a recess, and a pad seated in each of said recesses.

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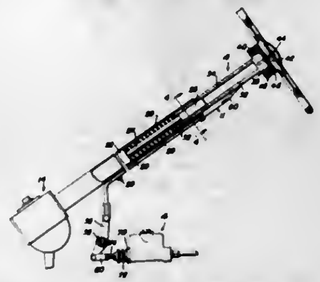
**2,648,992**
**TRANSMISSION**
**Jesse G. Vincent, Grosse Pointe Park, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan**
**Application July 17, 1947, Serial No. 761,475**
**20 Claims. (Cl. 74—472)**



1. In a transmission for an accelerator pedal controlled engine, driving and driven shafts, front and rear pumps driven by the driving and driven shafts respectively, gear means between the driving and driven shafts to provide a plurality of different speed ratio drives, a plurality of successively operable clutches to engage said different speed ratio drives, a master valve mechanism including a cylinder connected with the rear pump and having spaced successively higher speed ratio ports, clutch selector valve means, connecting means between the selector valve means and said clutches, a kickdown valve mechanism comprising a cylinder having passages interconnecting the master cylinder and the rear pump and interconnecting the front pump and the selector valves, a sleeve slidably mounted in the cylinder between normal and kickdown positions and having passages to interconnect the master cylinder and the rear pump when the sleeve is in the normal position and to vent the master cylinder when the sleeve is in the kickdown position, a plunger slidably mounted in the sleeve, accelerator pedal actuated means controlling the plunger, and means to vent the passages interconnecting the front pump and the selector valves when said sleeve is in the normal position and the plunger is in the accelerator released position and to directly interconnect the front pump with said selector valves when the sleeve is in the kickdown position.

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**2,648,993**
**STEERING COLUMN BRAKE**
**Wilfred H. Kemp, Buffalo, N. Y.**
**Application February 19, 1951, Serial No. 211,697**
**4 Claims. (Cl. 74—486)**



1. A steering column brake comprising an extensible steering column means having a lower hollow tubular standard, a steering shaft rotatably disposed in said standard and having a noncircular upper end, a sleeve reciprocably engaged in said standard and reciprocably and nonrotatably receiving the upper end of said shaft, said sleeve having the steering wheel secured thereto for reciprocation thereby, a connecting means rotatably secured for reciprocation with said steering wheel at its upper end and having its lower end connected to a pivot link, a plunger associated with the brake cylinder of a motor vehicle, said pivot link connected to said plunger for reciprocating the same upon reciprocation of said steering wheel.

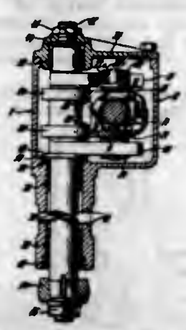
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**2,648,994**
**BALL NUT AND LEVER STEERING GEAR**
**William H. Doerfner and John C. Helvesten, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application October 18, 1951, Serial No. 251,951**
**8 Claims. (Cl. 74—499)**

1. Power transmitting means comprising, a worm, a nut mounted on said worm and adapted for movement from a starting position on the latter to positions on either side of said starting position, rockable means driven by said nut, spaced abutment means on said rockable means and on one side of said nut, said abutment means being out of contact during travel of said nut away from said starting position in either direction, and said nut being adapted to turn slightly about said worm as it approaches said starting



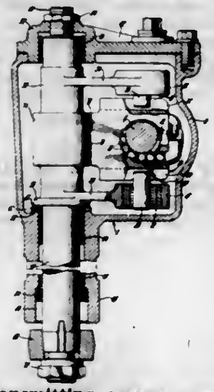
position, thereby bringing one of said abutments on said rockable means and nut into engagement



with each other and causing slight frictional contact therebetween.

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**2,648,995**
**BALL NUT AND LEVER STEERING GEAR**
**William H. Doerfner and John C. Helvesten, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application October 18, 1951, Serial No. 251,952**
**10 Claims. (Cl. 74—499)**

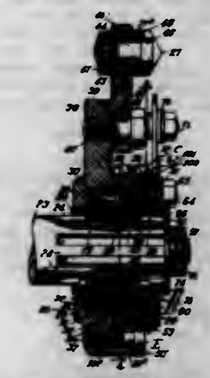


1. Power transmitting means, comprising, a worm, a nut mounted on said worm having a slot provided in at least one side thereof and disposed at an angle to the direction of movement of said nut, a shaft mounted adjacent said worm and at an angle thereto, an arm secured to said shaft, a pin mounted on said arm and extending into said slot whereby movement of said nut causes turning of said shaft, anti-friction bearing means for said pin, and interengaging means on said shaft and nut spaced from said arm for preventing undue turning of said nut about said worm.

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**2,648,996**
**AUTOMATIC SLACK ADJUSTING MECHANISM**
**Kirkland B. MacDougall, Benton, Pa.**
**Application November 8, 1950, Serial No. 194,658**
**6 Claims. (Cl. 74—522)**

1. A fully automatically operating slack adjusting device comprising a two-part hollow casing, an elongated hub carrying a circumferential ratchet gear with teeth on opposite side faces thereof disposed in the casing, the casing having end walls formed with centrally disposed aligned openings through which respective end portions of the hub rotatably fit, the hub being adapted to be positioned about an end portion of a shaft and fixed thereon to turn therewith, the casing having a series of teeth integral with one end wall thereof and arranged in a circular path concentric with the opening therein and which teeth are adapted to mesh with and disengage from the teeth on the confronting side face of the ratchet gear, a ring gear fitting loosely about said hub concentric therewith and disposed within the casing at the opposite side of the ratchet gear from the toothed end wall of the casing, said ring gear having a side face formed with teeth that are adapted to mesh with and be disengaged from the teeth on the confronting side face of



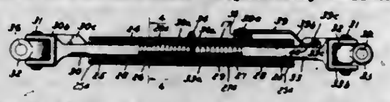
the ratchet gear, spaced segments disposed in said casing and having a yieldable cooperation with the ring gear, one of the segments being rigid with an adjusting place rotatably mounted for turning movement in the casing and about the hub to adjusted positions, said segment having spaced ends and being rotatable about the hub with the adjusting plates to adjusted positions, the other segment being stationarily mounted within the casing and located in the space between ends of the adjustable segment and being of appreciably less length than the space into which it fits, confronting faces at ends of the segments constituting abutments limiting movement of the adjustable segment, the ring gear having an integral projection thereon and which projection is disposed in the space between the abutments, and a member carried by the ring gear and adapted to cooperate with the fixed segment for preventing the adjusting cycle of the brake adjusting mechanism when the hub and the cam shaft are in the braking position.

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**2,648,997**
**ADJUSTABLE LINK**
**Frederick D. Sawyer, Wayne, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware**
**Application April 12, 1950, Serial No. 155,499**
**4 Claims. (Cl. 74—586)**

2. An adjustable link for connecting an implement to a tractor, comprising a square tubular body, a tubular inner spacer inserted in the center of said square tubular body, a pair of square nut members inserted in said square tubular body

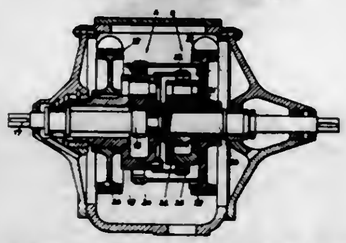
respectively adjacent opposite ends of said spacer, a pair of tubular outer spacers inserted in said square tubular body respectively adjacent the outer faces of said square nut member, a pair of bushings respectively inserted in the opposite ends of said square tubular body and abutting the outer ends of said outer tubular spacers, means for securing said bushings against longitudinal displacement relative to said square tubular body, said bushings having cylindrical bores, a pair of threaded rod members respectively insertable



through said bushings and cooperable with said square nut members, means on the ends of said rod members for pivotally securing such ends respectively to the tractor and the implement, whereby rotation of said square tubular body changes the effective length of said link, and a latch pivotally mounted on the projecting ends of one of said rod members and detachably resiliently engageable with said square tubular body for preventing rotation of said square tubular body.

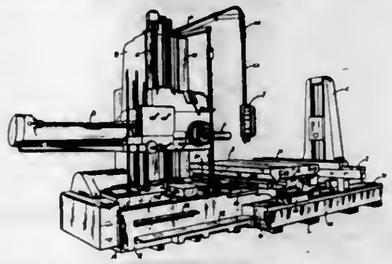
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**2,648,996**
**PLANETARY SPEED-REDUCING AND REVERSING GEAR**
**Wilhelm G. Stoeckicht, Munich-Solln, Germany**
**Application May 1, 1950, Serial No. 159,359**
**In Germany May 6, 1949**
**5 Claims. (Cl. 74—758)**



1. A speed change and reversing epicyclic gear comprising in combination, a casing structure, a driving shaft and a driven shaft mounted coaxially in said casing, first and second epicyclic gear trains within said casing structure and connecting said driving and driven shaft, the first gear train comprising a sun gear mounted on the driving shaft for unitary rotation therewith, a planet carrier and a ring gear mounted to rotate coaxially with the driving shaft, and at least one planet gear rotatably mounted on said carrier and meshing with said sun gear and ring gear, the second gear train comprising a planet carrier mounted on the driven shaft for unitary rotation therewith, at least one planet gear rotatably mounted on said second planet carrier, and a sun gear and a ring gear both mounted to rotate coaxially with the driven shaft, and both meshing with said second planet gear, means connecting the ring gear of the first train for unitary rotation with the sun gear of the second train and comprising a brake drum, means connecting the carrier of the first train for unitary rotation with the ring gear of the second train, and two braking means within said casing for selectively braking the carrier (or the ring gear of the first train), the braking means for braking the said ring gear including said brake drum.

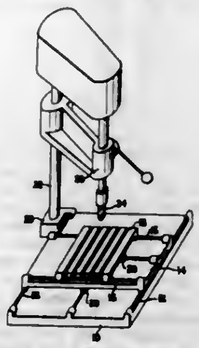
**2,648,999**
**HORIZONTAL BORING, DRILLING, AND MILLING MACHINE**
**Hallis N. Stephan, Cleveland Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut**
**Application January 13, 1949, Serial No. 70,688**
**4 Claims. (Cl. 77—3)**



1. An adjustable way engaging assembly for the saddle of a machine tool, comprising a pair of spaced frame members adapted to be fixed to said saddle and having a shaft extending therethrough and fixed in one of said members, a sleeve extending through the other of said members and rotatably supported therein and on said shaft and having a surface intermediate said members eccentric to the axis of rotation, means operatively associated with said eccentric surface for engaging the way of a machine tool whereby rotation of said sleeve effects a linear movement of said means and adjusts the position thereof relative to said way, and other means for fixing the sleeve in any adjusted position.

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**2,649,000**
**LAYOUT DEVICE FOR MACHINE TOOLS**
**Kenneth L. Bice, Framingham, Mass.**
**Application August 29, 1949, Serial No. 112,962**
**5 Claims. (Cl. 77—64)**

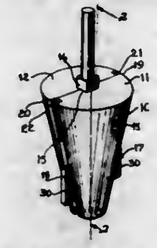


1. The combination of a machine tool with a base, ways thereon, a table on the ways, ways on the table, and a second table on the second-named ways, movable gauges on the first table to position the second table and movable gauges on the base to position the first table, means on each table to engage the respective gauges, clamping means for each table, power-operated means under control of an operator to position the gauges, a keyboard for each table, a switch on each keyboard for each step in each gauge, a stop for for each step of each gauge, and means to move the stops into and out of the paths of the gauges, said last-named means being controlled by the switches.



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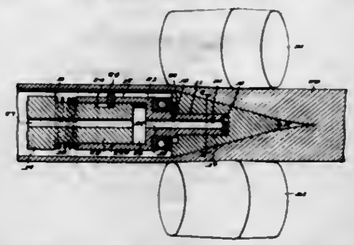
**2,649,001**
**HOLE BURRING TOOL**
**Frank Fennell, Chicago, Ill.**
**Application June 8, 1951, Serial No. 230,659**
**3 Claims. (Cl. 77—73.5)**



1. A tool comprising a conical shaped body having a center bore in said body, a shaft slidably journaled in said bore, said shaft having its inserted end bifurated, burring blades, means to slidably secure said blades to said bifurcated end of said shaft for lateral movement with respect thereto when said shaft is slidably moved in said bore, means for slidably containing said blades on the peripheral edge of said body, said last named means including channels formed in the peripheral edge of said body, said channels provided with a protruding lip extending into said channels and means for slidably containing said blades in said channels to the rear of said lip, and means for limiting the movement of said shaft in said bore.

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**2,649,002**
**SEAMLESS TUBE DRAWING TOOL**
**Donovan P. Gremling, Shelby, Ohio**
**Application August 10, 1950, Serial No. 178,687**
**3 Claims. (Cl. 80—13)**

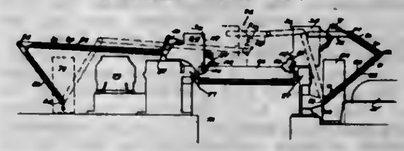


1. In a seamless tube forming tool, the combination which comprises a mandrel having a reduced end portion and a bore therethrough, a shoulder on the outer surface of the mandrel spaced from the end of the reduced end portion and a longitudinally disposed slot extended inwardly from the outer surface of the reduced end portion, a sleeve having an extended tubular shaft at one end thereof slidably mounted on the reduced end portion of the mandrel, resilient means between the end of the sleeve and shoulder of the mandrel, a point for receiving a billet journaled on the tubular shaft of the sleeve, and a ball thrust bearing positioned between the base of the point and shoulder at the end of the sleeve, said sleeve having a set screw extended into the longitudinally disposed slot of the mandrel to limit the longitudinal movement of the sleeve on the reduced end portion.



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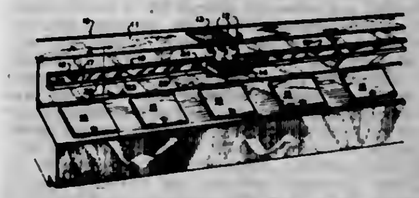
**2,649,003**
**MANIPULATING ON MILL TABLES**
**Edward C. Peterson, Reading, Pa., assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa., a corporation of Pennsylvania**
**Application May 28, 1947, Serial No. 750,995**
**5 Claims. (Cl. 90—49)**



5. In a manipulator for metallic stock, a pair of opposed side guards, means for moving the side guards horizontally toward and away from one another, a pivot on each side guard fixed with respect to that side guard and having a horizontal axis transverse to the direction of motion of the side guards, one of the pivots being relatively upper and the other relatively lower, an arm fixedly pivoted on each of the pivots, manipulator rollers journalled on the arms on axes extending lengthwise of the arms, one of the manipulator rollers having a diagonally upwardly directed surface of revolution and the other manipulator roller cooperating therewith and having a concavity one side of which forms a diagonally downwardly directed surface of revolution and the other side of which concavity forms a surface of revolution disposed at an angle to the first and resilient means resisting relative swinging of the manipulator roller arms and yielding to a position in which the manipulator rollers engage the sides of stock in erected position.

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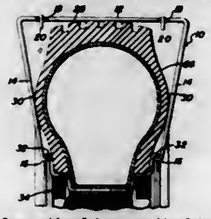
**2,649,004**
**BAR TYPE BOTTLE OPENER WITH CLOSURE RECEPTACLE**
**Howard B. Trimble, Sr. and Coburn D. Berry, Nashville, Tenn.**
**Application October 7, 1949, Serial No. 120,186**
**1 Claim. (Cl. 81—3.1)**



In a bottled drink dispensing bar provided with a drain, the improvement which comprises a combined bottle opener and bottle cap receiver including a longitudinally extending and elongated rigid member formed from sheet material and including a vertically disposed rear portion adapted to be secured to the bar and having integral intermediate and front portions, said intermediate portion extending angularly outwardly and upwardly from said rear portion and providing therewith a horizontally disposed

trough, said front portion extending angularly rearwardly and downwardly and having a free longitudinal edge spaced forwardly of the plane of said rear portion, and a bottle cap receptacle depending from said vertically disposed rear portion, said receptacle including substantially vertically disposed front and rear walls and bottom and end wall structure, at least one of said end walls being hingedly secured to said bottom wall for ready removal of bottle caps from said receptacle, the vertically disposed rear wall of the receptacle being of substantially greater height than the remaining walls and having the upper extremity thereof fixedly mounted upon the elongated rigid member and depending therebeneath, the distance between the front face of said vertically disposed rear wall and the free longitudinally disposed edge of said rigid member being sufficient to receive the top of a bottle therebetween to permit the ready removal of the bottle cap and gravitation thereof into said receptacle, said elongated rigid member being secured to said bar in slightly downwardly inclined angular relationship so that an extremity of the horizontally disposed trough provided between the rear and intermediate portions of said elongated member discharges into the drain of said bar, preventing the dripping of any liquid from the bar into the receptacle.

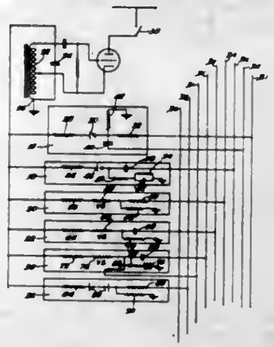
**2,649,005**
**RESILIENT CLAMP FOR INSTALLING TIRE CHAINS**
**Dudley K. Randal, Kennewick, Wash.**
**Application January 23, 1950, Serial No. 140,821**
**1 Claim. (Cl. 81—15.8)**



A device for attaching anti-skid chains to a tire mounted on a flanged rim, said device being formed integrally from a single strap of resilient material and comprising a straight intermediate member, said intermediate member being of greater length than the transverse width of the mounted tire whereby spaces for a user's hands are provided between the side members and the tire adjacent the intermediate member, a pair of straight and mutually convergent side members extending from the respective opposite ends of said intermediate member, the edges of said intermediate member and said side member being coplanar, and a pair of inturned opposing hooks provided at the free ends of said side members, said intermediate member being provided in its opposite side edge portions and at points spaced inwardly from said side members with pairs of registering notches to receive links of a chain.

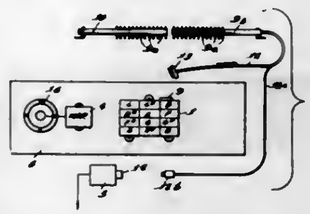
**2,649,006**
**MUSICAL INSTRUMENT**
**Solomon Heytow and Richard H. Petersen, Chicago, Ill.**
**Application November 13, 1950, Serial No. 195,222**
**11 Claims. (Cl. 84—1.20)**

7. In an electronic musical instrument of the type embodying means for amplifying an electrical oscillation and generating a sound wave of corresponding wave shape; electronic equipment for generating an oscillation of predetermined wave form corresponding to predetermined tonal characteristics in the resulting sound wave, comprising, in combination: generating means comprising an oscillator for generating an electrical



oscillation of substantially smooth shape and of the same frequency as the fundamental frequency of the desired sound wave; distorting means including no discharge device and comprising a non-linear voltage-sensitive resistance connected to receive the output of said generating means, whereby the wave form of the oscillation is distorted to increase its complexity; a loud speaker; and connections for energizing said loud speaker according to the distorted oscillation.

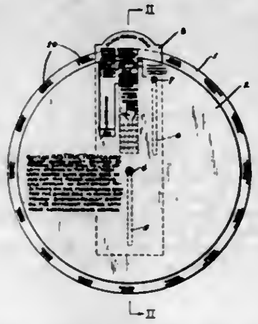
**2,649,007**
**MUSICAL INSTRUMENT**
**Walter J. Anderson, Elgin, Ill., assignor, by mesne assignments, to Central Commercial Industries, Inc., Chicago, Ill., a corporation of Delaware**
**Application March 18, 1950, Serial No. 150,506**
**4 Claims. (Cl. 84—172)**



1. A portable, self-contained, combined musical instrument, comprising, a vertical piano including an enclosing case having a horizontally disposed bed plank supporting the keyboard of said piano and a removably mounted kneeboard which is tiltable from a vertical position of closed adjustment against the case and underneath said kneeboard to a forwardly and downwardly extended angular position of opened adjustment underneath said bed plank and vice versa; a system comprising means for electrically generating audio frequencies of notes of the chromic scale and means for translating said frequencies into audible sounds for musical expression, said system being mounted on the inner face of said kneeboard for concealment thereof within the case when the kneeboard is in the aforementioned position of vertical closed adjustment against the case and to expose said system underneath the bed plank when the kneeboard is tilted forwardly and downwardly as aforementioned, a set of electric switches mounted inside said case, the individual switches of which are connected to said system and correlated to respective keys of the keyboard of said piano for activating said system with resultant production of audible sounds for musical expression, and means embodied in said system for tuning said generators.



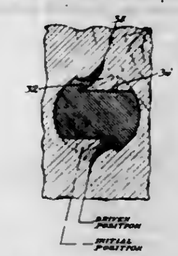
**2,649,008**
**STRING INSTRUMENT INSTRUCTION CHART**
**Fred Bova, Pittsburgh, Pa., and Joseph Bova, New Rochelle, N. Y.**
**Application April 20, 1950, Serial No. 157,024**
**1 Claim. (Cl. 84—474)**



A musical chart for string instruments comprising a bottom disk having a plurality of substantially radially extending chord group symbols wherein the particular chords in each chord group are indicated in columns extending substantially radially, and a plurality of substantially radially extending finger-board charts each in parallel relationship with one of said columns and with fingering designations indicated thereon for playing selected chords, a top disk having window means for associating any given chord group with its corresponding finger-board chart, a pivot for rotatably mounting said top and bottom disks, and a radially slidable rule mounted between said disks and having a slot slidably guided by said pivot, the end portions of said slot serving as limit stops for said radially slidable rule, said rule also having windows movable in registry with said window means for selecting a particular chord in any chord group and for designating on the finger-board chart the fingering necessary for playing that particular chord.

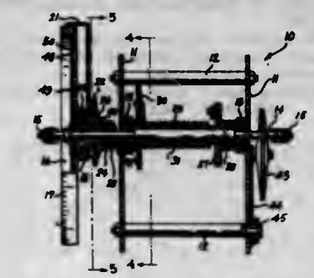
**2,649,009**
**DRIVE SPIKE**
**William R. Selby, Springfield, Ill.**
**Application May 2, 1951, Serial No. 224,150**
**6 Claims. (Cl. 85—21)**

1. In a drive spike, a generally cylindrical shank having a helical groove to rotate the spike a fraction of a turn in a predetermined direction when the spike is driven, and an ear-like projection contained within said groove having a longitudinal edge fixedly attached to that edge of said groove which leads in reference to said



rotation to restrain withdrawing rotation of the spike.

**2,649,010**
**INSTRUMENT FOR MEASURING SPEED OF SHAFTS AND THE LIKE**
**John Nielson Corry, Toronto, Ontario, Canada**
**Application September 14, 1948, Serial No. 49,169**
**2 Claims. (Cl. 88—14)**

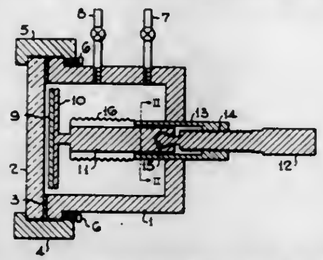


1. A device for measuring the speed of shafts and the like comprising a frame, anti-friction bearings mounted on said frame, a shaft mounted in said anti-friction bearings, said shaft having each of its ends projecting outwardly from said frame, a fly-wheel rigidly mounted upon said shaft exteriorly of said frame, means for rotating said shaft, a hub rigidly secured to said shaft, a sleeve carrying a disc cam freely mounted upon said shaft, a torsion spring substantially concentrically mounted upon said shaft, one end of said spring being secured to said hub, the other end of said spring being secured to said disc cam, an arm mounted upon said frame and adapted to cooperate with said disc cam so as to halt the latter, said arm being normally held out of engagement with said disc cam by means of a trigger release mechanism, said arm being releasable by tripping of said trigger release mechanism so as to engage said disc cam, and indicating means designed to measure the maximum amount of distortion imparted to said spring after tripping of said trigger release mechanism.

**2,649,011**
**ANALYTICAL SAMPLE CELL**
**James F. Black, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application July 29, 1949, Serial No. 107,511**
**2 Claims. (Cl. 88—14)**

1. An optical cell consisting of a fluid housing including a transparent face plate, a threaded

drive rod maintained in threaded relation through said housing extending toward the face plate, a reflecting plate, means coupled to said drive rod



supporting said reflecting plate parallel to said face plate, and a bellows encircling said supporting means and sealed in fluid tight relation to said housing.

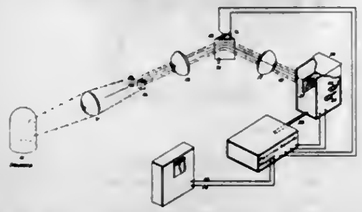
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**2,649,012**

**ELECTRICAL TEMPERATURE COMPENSATION IN RECORDING REFRACTOMETERS**

**Philip D. Schnelle, Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**Application June 5, 1950, Serial No. 166,236**
**5 Claims. (Cl. 88—14)**



1. In a refractometer in which refractive index of a fluid is indicated as an electric signal, the improvement which comprises the combination of means for measuring deviations in temperature of the said fluid as a difference from a reference standard, means for transforming said deviations in temperature into deviations in a second signal, means for impressing algebraically upon the first said signal the second said signal, the algebraic sum of which corresponds to a temperature-corrected value of the refractive index.

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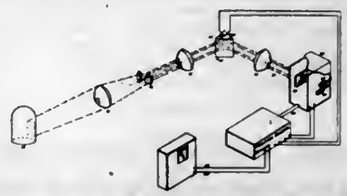
**2,649,013**

**APPARATUS FOR REFRACTOMETRY**

**Philip D. Schnelle, Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**Application June 5, 1950, Serial No. 166,237**
**3 Claims. (Cl. 88—14)**

1. A refractometer for transforming changes in refractive index of a fluid into an electric signal, which comprises in combination, a source of modulated radiation, a hollow prism and means for passing a fluid therethrough, means for directing a collimated beam of radiation from said source through said hollow prism, means for imaging the beam upon two light-receiving units which are in reciprocal and fixed positional relation to each other such that a null balance point exists where the beam of light falls equally upon the two receiving units and such that a deviation of said beam from this point results in a gain of light to one unit and a decrease of light to the other, said receiving units including means for changing the light differences obtained when the beam is subjected to deviation from said point of null balance, due to changes in refrac-



tive index of said fluid, into a fluctuating electric voltage impressed upon a carrier of direct electric voltage, means for removing the said fluctuating electric voltage as an alternating voltage component, and means for applying the alternating voltage component to restore the two receiving units to the position of null balance, the position of which corresponds to a value of refractive index.

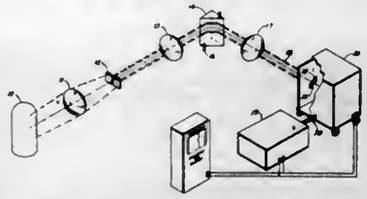
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**2,649,014**

**APPARATUS FOR REFRACTOMETRY UTILIZING PHOTOELEMENTS**

**Sherman E. J. Johnsen, Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**Application December 26, 1947, Serial No. 794,064**
**2 Claims. (Cl. 88—14)**



1. A device for transforming changes in refractive index of a fluid into electrical currents which comprises in combination and in optical alignment, a source of radiation in the form of a narrow luminous ribbon, a hollow prism and means for passing fluid therethrough, means for producing a collimated beam of radiation from said source passing through said hollow prism, means for imaging the source upon two receiving slits in reciprocal relation in which angular deviation of said ribbon results in a gain of light to one slit and a decrease of light to the other of said slits, light-receptive elements associated with each of said slits for changing light into electric currents, differential means for balancing said electric currents, and means for effecting transverse movement of the said light-receiving slits and receptive means, said means for said transverse movement responding to the outputs of the two said light-responsive means which are connected in opposition, the connections from the outputs of the said light-receptive means to the electric driving means being such as to bring back the image of the ribbon of light to substantially the same position with respect to said reciprocal slits.



**2,649,015**

**CAMERA CONTROL SYSTEM FOR THE SEQUENTIAL OPERATION OF CAMERAS**

**Edward Nassour, Los Angeles, Calif.**

**Application January 7, 1950, Serial No. 137,437**
**1 Claim. (Cl. 88—16)**



In a control system for the sequential operation of cameras, a control station, a plurality of electrically operated cameras located at spaced points in predetermined sequential relationship about an area to be photographed, electrically controlled circuits from said control station to said cameras; and a plurality of individually and selectively operable circuit controlling switches in said circuits at said control station, said switches being located in closely spaced sequential relationship in the same positional relationship as said cameras, each of said switches having manually shiftable operating means, and the spacing of said switches being such that pairs of adjacent switches can be simultaneously reversely operated with one hand to break one camera circuit and make the next succeeding circuit.

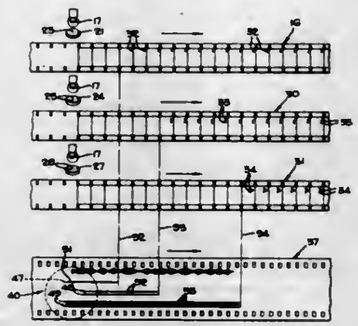
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**2,649,016**

**PICTURE AND SOUND SYNCHRONIZING METHOD AND SYSTEM**

**Jerry B. Fairbanks, Los Angeles, Calif.**

**Application November 7, 1949, Serial No. 125,998**
**6 Claims. (Cl. 88—16.2)**



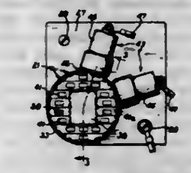
6. The method of identifying each of a plurality of cameras photographing a scene concurrently with the recording of sound accompanying said scene, which includes: recording a different identifying characteristic image on the film in each of said cameras identifying each of the films in said particular cameras; recording characteristic images corresponding to each identifying characteristic image, respectively, on film in a recorder means in synchronism with the recording of said sound; and terminating the said recording of said identifying characteristic images on said camera films substantially at the time of initiating and continuing said recording of said respective corresponding characteristic images on said recorder film.

**2,649,017**

**PHOTOGRAPHIC LIGHT COMPARATOR FOR DETERMINING DIAPHRAGM ADJUSTMENT**

**Harry D. McCarty, Chicago, Ill.**

**Application June 16, 1950, Serial No. 167,458**
**4 Claims. (Cl. 88—23)**



1. In an exposure determining device, an inner tube, an outer tube spaced from and surrounding said inner tube, a wall connecting said tubes at one end to prevent outside light rays from entering the area between said tubes at said end, a screen in said inner tube, means for forming an image on the screen corresponding to the field to be photographed, a transparent standard between said inner and said outer tubes substantially in the plane of said screen, said standard having a plurality of differently colored comparison areas, and means to illuminate said standard to a predetermined brilliance, whereby the component image colors can be compared with the comparison areas.

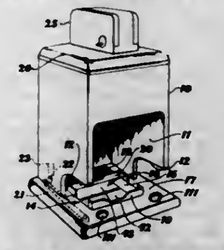
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**2,649,018**

**CONTROL MECHANISM FOR PHOTOGRAPHIC COPYING APPARATUS**

**George W. Schnetzer, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**Application October 17, 1951, Serial No. 251,700**
**9 Claims. (Cl. 88—24)**



1. In a photographic copying apparatus having a photographic field and an exposure station for simultaneously recording on the same light-sensitive material the obverse side of one document and the reverse side of a second document, the combination with a copy holder for supporting documents in said photographic field, said documents being arranged in contiguous stacks for presenting a series of different aspects, and a gate member for supporting said light-sensitive material in said exposure station, of optical means arranged with respect to said light-sensitive material for imaging said different aspects of the documents on successive displaced areas of said light-sensitive material, said areas being displaced laterally by a distance substantially equal to the width of an area and longitudinally by a distance substantially equal to one-half the length of an area so that the images of the obverse and reverse sides of each document are adjacent transversely of said light-sensitive material, shutter means provided with apertures spaced laterally in ac-

cordance with said areas and in the direction of shutter movement for cooperating with said optical means to expose successively each different aspect, a drive means, advancing means for moving an amount of said light-sensitive material substantially equivalent to the length of said area past said exposure station, shutter driving means for moving said shutter means, clutch means operatively connecting said drive means to said advancing means and said shutter driving means for moving said light-sensitive material and said shutter means in synchronism, and an escapement means associated with said clutch means for providing a cycle of operation for each revolution of said clutch means in which said successive areas are exposed and said light-sensitive material is moved.

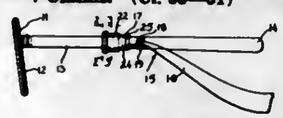
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**2,649,019**
**CONTRACTIBLE HEAD MOUNT FOR BINOCULARS**
**Haldan K. Hartline, Media, Pa., Arthur J. Rawson, Frederick, Md., and Victor A. Legallais, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Air Force**
**Application September 2, 1949, Serial No. 113,866**
**9 Claims. (Cl. 88—36)**



8. In an optical viewing attachment supporting device of the class described, contractible supporting means shaped to fit the head of a wearer, swingable optical viewing attachment supporting means pivotally mounted on the contractible supporting means to swing forwardly and rearwardly thereon between predetermined operative and nonoperative optical viewing attachment supporting positions above the contractible supporting means, and above the head of the wearer when the contractible supporting means is fitted on the wearer's head, contracting means operably connected between the attachment supporting means and the contractible supporting means for contracting the contractible supporting means, operable by swinging movement of the swingable supporting means to contract the contractible supporting means on the wearer's head incident to forward swinging movement of the swingable supporting means to its operative supporting position, and operable by swinging movement of the swingable supporting means from the operative position toward its nonoperative position to relieve the contracting action, and mounting means fixed on the swingable optical viewing attachment supporting means for rigidly mounting an optical viewing attachment thereon in operative viewing position for the wearer when the swingable supporting means is in the operative position, and shiftable with the swingable supporting means to the nonoperative position to support the optical viewing attachment out of the wearer's field of vision.

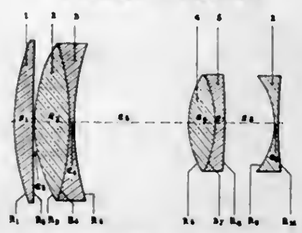
**2,649,020**
**SPECTACLE BAND**
**Ellen R. Wheeler, Fairfield, Conn.**
**Application April 26, 1950, Serial No. 158,116**
**7 Claims. (Cl. 88—51)**



1. The combination in a retaining device for spectacles having temple bars, and including a flexible retaining member adapted to encircle the back of a wearer's head or neck, of separate fastening means at each end of said retaining member separately attachable to and detachable from one of said temple bars at a point between the ends thereof, whereby to leave the ends of said bars unobstructed for free application to and removal from the ears of a wearer, including a socket member of rubber-like elasticity having a tubular section open at both ends to slip over one of said temple bars and connect said retaining member thereto at a selected point longitudinally of said bar, a liner for said tubular section to facilitate movement thereof along said bar, said liner having a projecting end forming a grip for use in moving said tubular section along said bar, and means connecting said tubular section to an end of said retaining member.

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**2,649,021**
**LARGE APERTURE PHOTOGRAPHIC OBJECTIVE**
**Pierre Angénieux, Paris, France**
**Application July 1, 1950, Serial No. 171,683**
**In France December 7, 1949**
**2 Claims. (Cl. 88—57)**



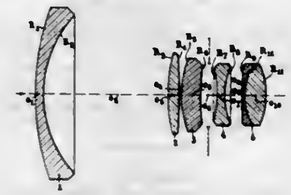
1. An objective having a relative aperture larger than 1/1.5, corrected for spherical aberration, astigmatism, distortion and coma comprising firstly a component consisting of a convergent lens and at the rear thereof and very close thereto a meniscus-shaped doublet with its concave surface directed to the rear, comprising a convergent lens cemented to the front of a divergent lens, said component being arranged according to the so-called Gauss objective type; secondly a convergent doublet comprising a convergent lens cemented to the front of a divergent lens and positioned at a distance from the first doublet, smaller than the focal length of the objective assembly and greater than 40% of the said focal length, the index of refraction of the convergent lens of each doublet being smaller than the index of refraction of the divergent lens of the corresponding doublet, whilst the dispersing power ($\nu$) of said convergent lens is greater than the $\nu$ value of said divergent lens; and thirdly, very close to the focal plane of the objective and in front of it, a divergent lens of relatively strong



power having a focal length the absolute value of which is higher than 30 percent of the objective focal length and shorter than the said focal length, the two opposite faces of said divergent lens being of different curvatures with the face of smaller curvature positioned at the rear.

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**2,649,022**
**WIDE-ANGLE PHOTOGRAPHIC OBJECTIVE LENS ASSEMBLY**
**Pierre Angénieux, Paris, France**
**Application July 29, 1950, Serial No. 176,573**
**In France February 17, 1950**
**8 Claims. (Cl. 88—57)**

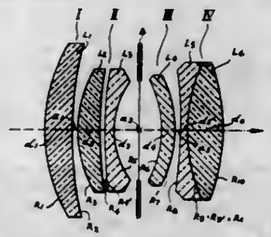


1. A wide-angle objective in which the axial distance from the rear lens to the focal plane thereof is greater than 0.9 times the focal length of the objective assembly and less than 1.3 times the said focal length, consisting of two parts, one collective and the other dispersive, the collective part comprising two members, namely: a front member including a collective lens and a collective meniscus lens having its convex surface directed toward the front and a rear member including a biconcave lens and a collective lens, said rear member having a focal power (the reciprocal of the focal length) which is algebraically comprised between two limits the absolute value of said limits being equal to half the focal power of the front member but having opposite signs; the dispersive part consisting of a dispersive meniscus lens having its convex surface directed toward the front and being positioned in front of the collective part at an axial distance greater than 50% of the focal length of the objective assembly and less than 12 times said focal length, the focal length of said dispersive meniscus lens having an absolute value smaller than four times the focal length of the objective assembly and greater than said focal length, one at least of the lenses constituting the two parts consisting of a plurality of simple component lenses cemented together.

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**2,649,023**
**MODIFIED GAUSS-TYPE FOUR-COMPONENT PHOTOGRAPHIC OBJECTIVE**
**Albrecht Wilhelm Tronnier, Gottingen, Germany, assignor to Voigtländer & Sohn Aktiengesellschaft, Braunschweig, Germany, a corporation of Germany**
**Application November 17, 1950, Serial No. 196,101**
**In Switzerland January 27, 1950**
**4 Claims. (Cl. 88—57)**

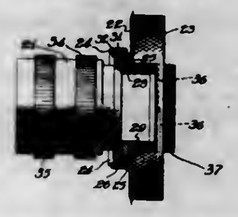
1. Photographic objective of the modified Gauss-type, of high light-transmitting capacity and anastigmatic flatness of the image field, comprising in combination a first lens system and a second lens system in combination with an intermediate diaphragm enclosed by said first and second system, and consisting of the following members consecutively arranged in the direction toward the photographic image: a front member consisting of a meniscus-shaped individual lens, the proper focal length of which is in the range of 0.80 times and 1.80 times the equivalent focal length of the total objective; a composite member consisting of two individual lenses of opposite power, the proper focal length of said composite member being in the range of −1.65 times and −3.30 times the equivalent focal length of the total objective; an individual meniscus-shaped



lens member separated from the preceding lens member by the diaphragm space, the proper focal length of this meniscus-shaped lens member being in the range of −1.65 times and −3.30 times the equivalent focal length of the total objective; and a composite lens member terminating the objective on the image side and consisting of two cemented individual lenses of opposite power, the proper focal length of this composite cemented lens member being in the range of 0.60 times and 1.20 times the equivalent focal length of the total objective.

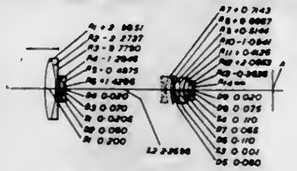
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**2,649,024**
**LENS AND SHUTTER COMBINATION MOUNTING**
**Leo Goldhamer, Munich, Germany**
**Application February 10, 1951, Serial No. 210,365**
**In Germany February 16, 1950**
**2 Claims. (Cl. 88—57)**



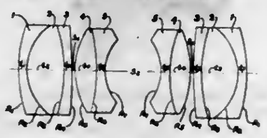
1. A lens and shutter combination for use in a miniature camera which comprises a central shutter casing bearing an insert body at the front and means for securing the shutter casing to the camera, an exchangeable lens mounting attached to said insert body by means of a bayonet fastener, said lens mounting having a cylindrical projection at the back adapted to fit into a corresponding recess at the front of said insert body, to thereby precisely center the lens mounting with respect to the shutter casing, and tabs carried by the back of said lens mounting and pressing against a bearing surface at the front of the insert body by means of a locking ring having locking flanges in cooperative relation with said tabs, whereby the required distance between the lens and the focal plane is precisely maintained.

**2,649,025**
**OPTICAL OBJECTIVE OF VARIABLE FOCAL LENGTH**
**Gordon Henry Cook, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company**
**Application September 6, 1951, Serial No. 245,297**
**In Great Britain September 22, 1950**
**33 Claims. (Cl. 88—57)**



1. An optical objective of variable focal length, corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion throughout the range of variation, and comprising a stationary convergent rear member having an equivalent focal length $f_3$ lying between $F_o$ and $\sqrt{F_oF_m}$, where $F_o$ and $F_m$ are respectively the lower and upper limits of the range of variation of the equivalent focal length of the whole objective, an axially movable divergent second member located in front of the rear member, an axially movable convergent front member located in front of the second member, and means for axially moving the front member and the second member whereby in each operative position the equivalent focal length of the divergent combination of such two members bears to that of the complete objective a ratio between 8 and 13 times the reciprocal of the f/number of the objective and the virtual image of a distant object formed by such divergent combination has a constant axial position relatively to the stationary rear member throughout the range of variation of the equivalent focal length of the objective.

**2,649,026**
**FOUR COMPONENT APOCHROMATIC COPYING OBJECTIVE**
**Fred E. Altman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application March 25, 1952, Serial No. 278,464**
**3 Claims. (Cl. 88—57)**



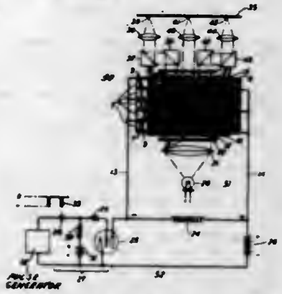
| Lens | N | V | Radii | Thicknesses |
|---|---|---|---|---|
| 1 | 1621 | 615 | $R_1$ = 4.7163 mm | $t_1$ = 2.76 m m |
| 2 | 1630 | 555 | $R_2$ = 1.2237 | $t_2$ = 14.72 |
| 3 | 1640 | 336 | $R_3$ = -7.34 | $t_3$ = 3.21 |
| | | | $R_4$ = .1098 | $S_1$ = 0.15 |
| 4 | 1617 | 550 | $R_5$ = .2825 | $t_4$ = .1035 |
| 5 | 1635 | 436 | $R_6$ = -.3906 | $t_5$ = 2.40 |
| | | | $R_7$ = -.1500 | $S_2$ = 62.33 |
| SYMMETRICAL | | | | |

1. A photographic objective consisting of two positive cemented triplet components and two negative meniscus cemented doublet components axially aligned therebetween, in which the radii of curvature R of the lens surfaces of each half of the objective numbered by subscripts in order from the end of the objective to the center thereof are within the limits set forth in the following table of algebraic inequalities:

$$0.61\ F < +R_1 < 0.75\ F$$
$$0.20\ F < +R_2 < 0.25\ F$$
$$0.65\ F < -R_3 < 0.80\ F$$
$$-0.25 < \frac{F}{R_4} < +0.05$$
$$0.24\ F < +R_5 < +0.28\ F$$
$$0.53\ F < -R_6 < 0.66\ F$$
$$0.18\ F < +R_7 < 0.20\ F$$

where F is the focal length of the objective and where the + and − values of the radii denote surfaces respectively concave and convex toward the center of the objective, and in which objective the refractive indices of all glasses used in the triplet components are between 1.58 and 1.72.

**2,649,027**
**ELECTROOPTICAL SYSTEM**
**Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application February 18, 1947, Serial No. 729,291**
**6 Claims. (Cl. 88—61)**

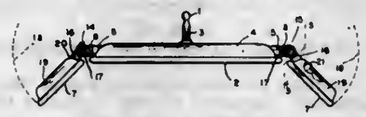


5. An electro-optical system comprising a plurality of birefringent piezoelectric plates, apertured electrodes of opposite polarity secured respectively to the major faces of said plates, said plates with the associated electrodes being arranged in a pile with said major faces substantially parallel and the apertures aligned and said plates being cemented together with a cement having the same index of refraction as said plates which highly damps the natural resonance of the plates, an inductance coil, a conductive element connecting the electrodes of one polarity to one terminal of said coil, and a second conductive element connecting the said electrodes of opposite polarity to the other terminal of said coil, the antiresonant circuit so formed having a resonant frequency well below the natural vibration frequency of the crystals of said pile of piezoelectric plates.

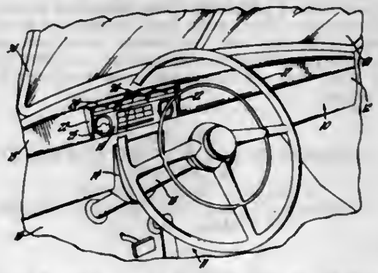
**2,649,028**
**REARVIEW MIRROR**
**Joseph G. Lenta, Duluth, Minn.**
**Application February 2, 1951, Serial No. 209,130**
**2 Claims. (Cl. 88—87)**

1. A rear view mirror for automobiles and the like comprising a central mirror, means for pivotally mounting said central mirror on said automobile, a pair of side mirrors, and means for mounting one of said side mirrors on each side of said central mirror whereby they may be pivoted on their longitudinal axes and in a plane normal to said axes, said last mentioned means comprising a pair of opposed sockets on the rear of said central mirror, one of said sockets being carried adjacent each side of said central mirror, said sockets having axially alined bores, a unitary coupling extending into each of said bores, a shoulder on each of said couplings to limit their extension into their respective bores of said sockets, a portion of said couplings being extended outwardly of said sockets, a stem extending from each of said side mirrors toward said central mirror, a hinge connection joining each of said stems to their adjacent outwardly extending portions of said couplings to pivotally support said side mirrors on said central mirror, said hinge connection permitting the pivotal movement of said side mirrors in a plane normal to their longitudinal axes, said couplings being rotatable in said sockets to permit the pivoting of said side mirrors on substantially their longitudinal axes, and a spring connected between said couplings to hold the latter in their desired position within said sockets and to prevent said side mirrors from pivoting on said longitudinal axes unintentionally.



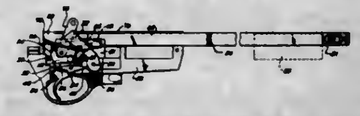


**2,649,029**
**SIGNAL REFLECTOR FOR AUTOMOTIVE VEHICLES AND THE LIKE**
**Elbridge F. Bacon, deceased, late of Flint, Mich., by Ruth J. Bacon, executrix, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application March 17, 1950, Serial No. 150,136**
**5 Claims. (Cl. 88—93)**



2. In a motor vehicle street signal reflecting mechanism the combination of an instrument panel having a top wall portion which includes an opening formed therein, a convex lens having an image reflecting surface and a non-image reflecting surface, said lens being adapted to be mounted on said wall and disposed substantially entirely within said opening so that at least one of said lens surfaces may be substantially flush with the upper surface of said wall, said surfaces being substantially coextensive with said opening, a means mounted on said wall for movably supporting said lens within the opening in said wall, and a detent mechanism adapted to coact with said wall and said lens to lock said lens in any one of a plurality of positions with respect to said wall, said lens being rotatable to a first position within said opening in which said image reflecting surface is substantially coextensive with said opening and is visible to the vehicle operator whereby a street signal not within the operator's normal range of vision is visible therein, said lens being rotatable to a second position within said opening in which the non-image reflecting surface is substantially coextensive with said opening and similarly visible to the operator.

**2,649,030**
**SELECTIVE FIRE CONVERTER FOR SEMI-AUTOMATIC FIREARMS**
**Alonzo F. Gaidos, Redwood City, Calif.**
**Application January 16, 1950, Serial No. 138,766**
**7 Claims. (Cl. 89—140)**



1. In an automatic firearm having a hammer, a sear for retaining the hammer in cocked position, a trigger for disengaging the sear, and an automatically operated reciprocable slide movable from a battery position to a recoil position to cock the hammer following each discharge; a selective fire converter comprising a bracket on one side of the firearm adjacent the trigger and sear, a sear tripper pivoted on said bracket above the trigger engageable with and movable by the trigger from an inoperative position to an operative position, an actuator bar slidable on said bracket reciprocated by said slide, an end piece pivotally connected to said bar to engage and operate said sear tripper, and a selector cam pivoted on said bracket arranged to engage and shift said end piece to an inoperative position displaced from said sear tripper.

**2,649,031**
**FIRE CONTROL MECHANISM**
**Alonzo F. Gaidos, Redwood City, Calif.**
**Application October 16, 1947, Serial No. 780,214**
**13 Claims. (Cl. 89—141)**



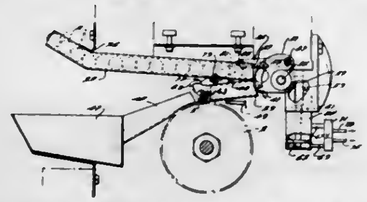
1. In an automatic firearm having a hammer, a sear for retaining the hammer in cocked position, a trigger for disengaging the sear, and an automatically operated reciprocable slide movable from and to a battery position to cock the hammer following each discharge; a selective fire converter comprising a bracket on one side of the firearm adjacent the trigger and sear, a sear tripper pivoted on said bracket and arranged to move the sear for disengaging it from the hammer, said sear tripper being movable from inoperative to operative position by pulling the trigger, and a slidable actuator bar reciprocable along one side of the firearm relative to said bracket by reciprocation of the slide, said actuator bar engaging and moving said sear tripper, when in operative position, during reciprocation to disengage the sear from the hammer.

2,649,032

## DEVICE FOR GRAVITY FEED OF GEARS TO GEAR SHAVING TOOL

Alexander D. F. Moncrieff, Detroit, Mich., assignor to Michigan Tool Company, Detroit, Mich., a corporation of Delaware

Application June 16, 1948, Serial No. 33,369
11 Claims. (Cl. 90—1.6)



1. A feed mechanism for articles to be treated comprising a first downwardly inclined chute having an outlet at the lower end, a second downwardly inclined chute having an inlet adjacent said outlet, a first pivoted arm having means at the periphery thereof for receiving an article from said outlet and releasing it into said inlet, means for pivotally moving said arm, a second pivoted arm located near the outlet of said second chute for positioning an article therein in proper location for treatment, and linkage connecting the first arm to the second arm whereby the second arm is actuated to position when the first arm is actuated to release an article into the second chute and the second arm is actuated to release an article when the first arm is actuated to receive an article from the first chute.

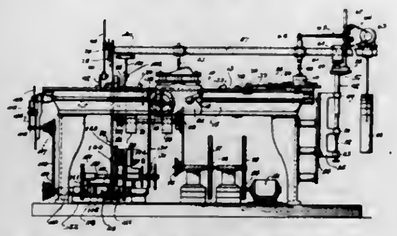
9. In a gear shaving apparatus having a rotary cutter, the combination of gravity feed means having an outlet near the top of the cutter and arranged to deliver gears to the top of the cutter, workholding means for holding a gear to be shaved in a position on top of the cutter with the axis of the gear being shaved offset laterally from a vertical plane through the axis of the cutter whereby the gear being shaved is in inherently unstable position with respect to the force of gravity, and downwardly inclined removal chute means adjacent but below the top of the cutter arranged to receive gears that have been shaved.

2,649,033

## DIE CUTTING MACHINE

Robert W. Jack and Harry E. Montgomery, Rochester, N. Y., assignors to Metal Arts Company, Rochester, N. Y., a corporation of New York

Application August 26, 1950, Serial No. 181,638
6 Claims. (Cl. 90—13.1)



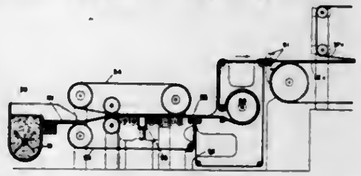
1. In an automatic engraving machine, a model table for supporting a model to be copied and a work table for supporting a body to be carved, ways along which said model and work tables may move, means for moving the model table at a uniform speed along said ways for a distance as great as the length of the model, means for moving the work table at a uniform speed proportionate in speed and distance to the movement of the model table, a ratio bar extending above the model and work tables universally trunnioned at one end, a stylus and a cutting tool carried by said ratio bar, means to impart to said ratio bar lateral harmonic motion across the model and work tables, and means to impart vertical movement to said bar corresponding to the contour of the model to be copied.

2,649,034

## PULP WOOD PRODUCT AND METHOD OF MANUFACTURING

Clarence U. Gramelspacher, Jasper, Ind.

Application September 17, 1949, Serial No. 116,294
3 Claims. (Cl. 92—40)



3. The method for producing a rigid grained artificial wood veneer sheet that consists of, mixing together wood particles and wood pulp fibers in a liquid vehicle, floating the mixture onto a moving carrier in a manner causing rearrangement of the wood pulp fibers in the mixture into substantially parallel arrangement relative to each other to establish a flexible web grained longitudinally of the direction of movement of the web as deposited on the moving carrier, removing the liquid vehicle from the web and drying the same while flexible, applying a bonding agent to the web after drying thereof, moving the web thereafter in a planar condition while applying pressure to the web to compress the same to a predetermined thickness while wet with the bonding agent, and setting the bonding agent with the web in planar condition while pressure is maintained on the web until the bonding agent is set to retain the predetermined thickness.

2,649,035

## APPARATUS FOR MAKING STIFFENED WRAPPERS

William S. Cloud, Wilmette, Ill.

Application April 5, 1951, Serial No. 219,482
15 Claims. (Cl. 93—1)



1. Apparatus for making a stiffened wrapper including means for feeding a slitted tubular wrapper blank, means for plowing open the sides of the wrapper, means for feeding a continuous length of stiffener strip, means for cutting said strip into sections, applying glue to each section, and inserting each section in the opened tubular



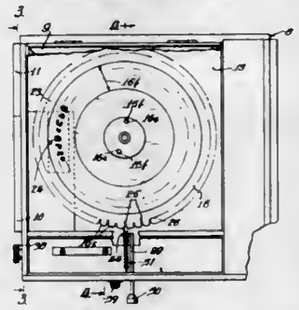
blank, means for closing the tubular blank about the insert and twisting it as it advances to turn it over, means for applying a backing strip to the split side of the tubular blank and means for cutting the tubular blank driven in timed relation to the means for cutting the stiffener strip to cut the tubular blank between the inserts to form stiffened package blanks.

2,649,036

## PHOTOCOMPOSING MECHANISM

Robert W. Wirtz, Peoria, Ill., assignor to Wirtz Company, Peoria, Ill., a copartnership

Application December 1, 1950, Serial No. 198,596
6 Claims. (Cl. 95—4.5)



1. In a photographic composing machine, a box-like cabinet, an exposure station therein, a hinged cover panel comprising a top closure to said cabinet, a flanged turntable bearing vertically pivoted in said cabinet, the turntable portion of said bearing having upstanding locating elements, a disk adapted to be placed horizontally on the turntable portion of said bearing, and having a circular array of character indicia, a central hole and apparatus for receiving said locating elements of said turntable bearing, the peripheral edge of said disk having radially varying abutments each corresponding to one of said character indicia, a feed sprocket mechanism for advancing a photo-sensitive strip past said exposure station, said exposure station being in light projection alignment with said circular array of indicia, a ratchet to drive said feed sprocket mechanism, a pawl to drive said ratchet, a key for actuating said pawl, a link intermediate said key and said advancing mechanism having a portion engageable with said disk abutments whereby to limit the extent of stroke impartable to said pawl, and a member adjustably positionable for determining the initial engagement of said pawl with its said ratchet for further regulating the degree of movement imparted to said strip.

2,649,037

WITHDRAWN

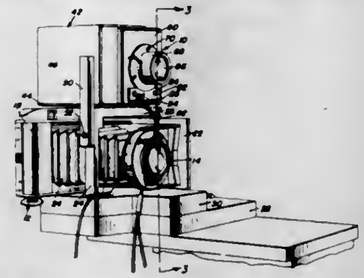
2,649,038

## RANGE FINDER ADAPTER FOR CAMERAS

Wayne Blue, Long Beach, Calif.

Application August 14, 1950, Serial No. 179,293
2 Claims. (Cl. 95—44)

1. A range finder and direct viewer adapter for a camera having a casing and a focusing lens movable relative to said casing, said adapter including a base, a frame carried by said base for receiving a camera, means for removably securing said camera to said frame, a pair of spaced standards carried by said frame, an adapter housing disposed between said standards, one of said standards being adjustably secured to said frame for clampingly engaging said adapter housing, said adapter housing having an apertured movable wall, a lens carried by said movable wall and overlying said aperture therein, means for connecting said lens to a focusing lens of said camera for movement therewith, said camera securing means including a fastener carried by said base engaged in a threaded fitting carried by the camera casing.

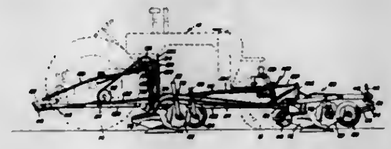


2,649,039

## TRACTOR IMPLEMENT

Mart L. Aust, Clarksdale, Miss.

Application January 17, 1949, Serial No. 71,326
15 Claims. (Cl. 97—46.43)



12. In a tractor having a bar bail thereon, an agricultural implement comprising a pair of side members attached to the tractor, a forward member extending across said side members and mounted for pivotal movement on the side members, means connecting and bracing the forward member to the bar bail, a longitudinal tool supporting beam attached to said forward member, and means mounted on the tractor and connected to the forward member for pivoting the forward member to selectively raise and lower the tool supporting beam.

2,649,040

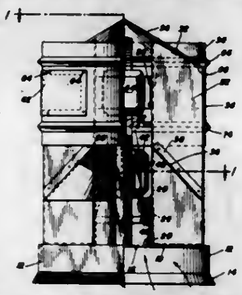
## POWER EXHAUSTER

Harold Knutson and Harold G. Knutson, Chicago, Ill.

Application November 15, 1950, Serial No. 195,836
8 Claims. (Cl. 98—43)

1. In a power exhauster, an inner circular shell and an outer circular shell, a plurality of radial struts between the shells for supporting the shells spaced apart along the struts, an exhaust fan having vertical blades located axially within the inner shell diameter and in the space between the shells for receiving exhaust from the inner shell and expelling it outwardly, and a frusto-conical deflector having its edge of lesser

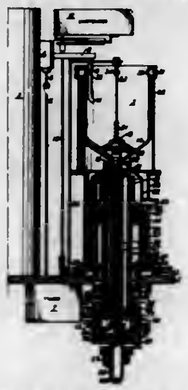
diameter adjacent the top of the fan blades and extending downwardly and outwardly so the ex-



haust from the fan strikes the deflector to discharge the exhaust gases.

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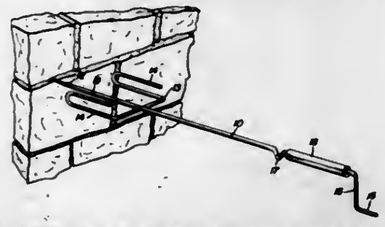
**2,649,041**
**COFFEE MAKER**
**Louis Burgess, Jersey City, N. J.**
**Application March 14, 1952, Serial No. 276,597**
**6 Claims. (Cl. 99—283)**



1. In a coffee maker including a vertically disposed centrifuge of the imperforate overflow type carrying at its upper end an inwardly projecting overflow lip and at its lower end an axial discharge outlet of lesser diameter than said overflow lip, said coffee maker also including a receptacle above said overflow lip, a dispenser surmounting said receptacle, a timer, means controlled by said timer for introducing a predetermined amount of water and means controlled by said timer for discharging a predetermined amount of ground roasted coffee from said dispenser into said receptacle, means for comingling said water with said coffee in said receptacle to form a mixture, a rundown tube extending from said receptacle into said centrifuge and a deflector in said centrifuge adjacent the lower end of said rundown tube, the improved centrifuge construction comprising a solids collecting section at least substantially equal in centrifugal retaining capacity to said predetermined amount of coffee, consisting of a first shell substantially symmetrical with respect to said deflector defining a concentric opening at one end not greater in diameter than said overflow lip and not substantially less in diameter than said discharge outlet and defining a concentric opening at the other end of greater diameter than said overflow lip, a second shell surrounding and concentric with said first shell defining a concentric opening at one end not greater in diameter than said overflow lip and not substantially less in diameter than said discharge outlet and defining a concentric opening at the other end of greater diameter than said overflow lip, said first and second shells being spaced apart to retain therebetween a tubular body of liquid of lesser radial thickness than is retained within said first shell, and said ends of greater and lesser diameter being reversed in relation to the ends of greater and lesser diameter of said first shell to direct overflow from said first shell into the space between said first and second shells, the space between said first and second shells constituting at least part of a clarifying section extending between said solids-collecting section and said overflow lip.

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**2,649,042**
**BARBECUE ROASTER**
**Randolph F. Wickman, Los Angeles, Calif.**
**Application September 14, 1950, Serial No. 184,851**
**1 Claim. (Cl. 99—441)**



A barbecue roasting spit comprising, a rod including a straight forward portion terminating in a point adapted to be embedded in a wall of a barbecue oven for rotatably supporting said rod at its forward end thereon, transversely aligned bars on said forward portion of the rod, substantially U-shaped members on the outer ends of the bars extending forwardly therefrom in spaced parallelism with the rod and providing, in conjunction therewith, a support for a plurality of frankfurters, the bight portions of said members being forwardmost, said straight portion of the rod extending forwardly beyond said members, a crank on the rear end of the rod for rotating same, and a tubular handle journaled on the rod adjacent the crank for rotatably supporting said rod at the rear end thereof.

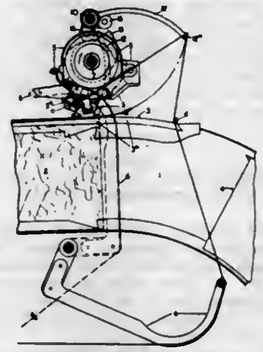
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**2,649,043**
**STRING EXTRACTOR MEANS FOR BALING APPARATUS**
**David Thomas Jones and Glynn Jones, Mold, North Wales**
**Application August 16, 1949, Serial No. 110,484**
**In Great Britain August 19, 1948**
**7 Claims. (Cl. 100—4)**

1. Baling apparatus of the type referred to having knotters, a driving shaft for said knotters, and knotter needles swingable through slots in a bailing chamber, provided with means whereby, in respect of each knotter of said bailing apparatus and after the completion of one bale and before the commencement of the next succeeding bale, a length of string is extracted from a supply of said string, said extracting means comprising a shaft disposed adjacent to the shaft of said knotters, extractor arms keyed to



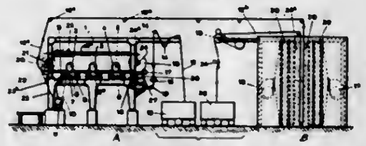
said second-mentioned shaft and having angled portions at their outer ends each adapted to be positioned transversely of an adjacent baling chamber slot in order to engage the string positioned in the path of a bale-in-making, arms secured to said extractor arm shaft, follower rollers carried at the ends of said second-mentioned arms, and cams mounted on said knotter



driving shaft for turning therewith for engaging said followers and pivotally raising said extractor arms away from the baling chamber each time the knotter needles swing through the slots of the bailing chamber to position lengths of string in the path of a new bale, and whereby a length of string approximately equal to the length of a completed bale is held by each arm above the baling chamber.

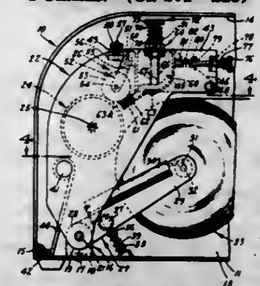
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**2,649,044**
**WEB FEED MEANS FOR ROTARY PRINTING MACHINES**
**Julien Dungler, Basel, Switzerland**
**Application July 29, 1948, Serial No. 41,315**
**In France August 11, 1947**
**4 Claims. (Cl. 101—181)**



1. A machine for continuously printing cloth or other sheet material, comprising in combination a plurality of printing devices, an endless support in the form of a band travelling through said devices, means for guiding said support along its travel to prevent deflection thereof, means on said support fixing said cloth to said support in such a manner that it is substantially prevented in longitudinal as well as in transverse directions of its travel from displacement relative to said support, respective means adapted to tension said endless support in longitudinal and transverse directions thereof and independently of its travel, said means for tensioning said support in transverse direction thereof including gripping means for engaging the lateral edges of said band, chain means connected to said gripping means, and rail means supporting said chain means and arranged for displacement and adjustment along a path extending substantially angular to the direction of the travel of said band.

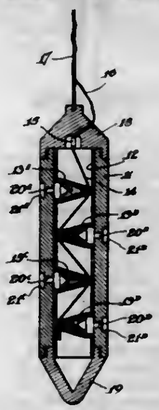
**2,649,045**
**GUMMED TAPE PRINTING DEVICE**
**Tomun Finizie, Bridgeport, Conn., and John J. Connolly, Pelham Manor, N. Y.; said Finizie assignor to Bayus Electric, Incorporated, Bridgeport, Conn., a corporation of Connecticut**
**Application May 9, 1950, Serial No. 160,912**
**4 Claims. (Cl. 101—213)**



1. In a printing device for repeatedly printing the same message on spaced portions of a tape as the same is taken from a roll, a first means for supporting a roll of tape for rotation about its own axis, a printing roller, a second means supporting said printing roller for rotation on an axis spaced from but parallel with the axis of a roll supported by the first mentioned means, means for inking said printing roller, pivot means mounting said first and second means for relative pivotal movement, releasable means restraining pivotal movement of said second means in one direction, and spring means constantly urging said first means in said one direction on said pivot means to maintain a roll supported by said first means in engagement with said printing roller.

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**2,649,046**
**EXPLOSIVE PACKAGE**
**Clyde Oliver Davis, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application May 1, 1947, Serial No. 745,209**
**2 Claims. (Cl. 102—20)**



1. An explosive package comprising a sealed metal container of pressure-resistant construction; an assembly of more than one shaped charge of high density, high velocity detonating

explosive within said container, each of the charges having a lined dished cavity facing the wall of the container; initiating means for the charges; openings through the walls of the container in front of each of the dished cavities and substantially symmetrically centered therewith, said openings being of substantially smaller diameter than said cavities; and destructible sealing means for each of said openings.

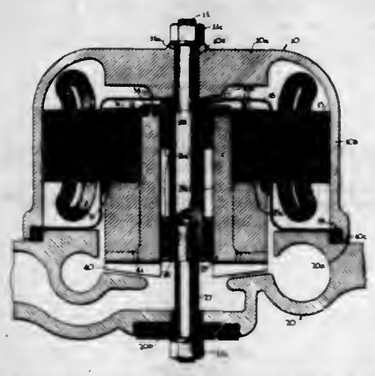
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**2,649,047**
**PRIMER**
**Martin S. Silverstein, Camden, N. J.**
**No Drawing. Application March 13, 1945, Serial No. 582,462**
**1 Claim. (Cl. 102—86.5)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

In a primer, the combination of a primer composition comprising red phosphorus and a solid oxidizing agent for red phosphorus and primer housing components presenting a metallic surface of zinc to said composition where said composition makes direct contact with the said components.

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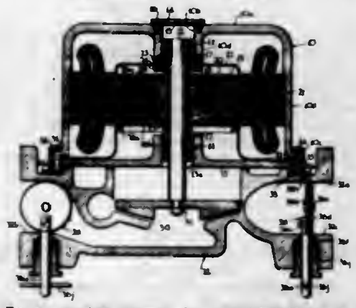
**2,649,048**
**FLUID-SHIELDED DYNAMOELECTRIC DEVICE FOR IMMERSED PUMPS AND THE LIKE**
**Rinaldo F. Pezzillo, Audubon, N. J., and Anthony H. Pezzillo and George C. Tatem, Philadelphia, Pa., assignors to Mono Products Inc., Philadelphia, Pa., a corporation of Pennsylvania**
**Application April 6, 1950, Serial No. 154,286**
**7 Claims. (Cl. 103—87)**



7. A motor-pump assembly, comprising in combination, a cup-shaped stator casing having an outer flanged edge and being provided with a shaft opening and an interior boss in the bottom, a shaft rigidly secured in the bottom opening of the stator casing and having its stub end projecting into the casing, an annular stator field assembly secured in said stator casing, a cup-shaped stator cover shield of thin metal of non-magnetic character having a shaft-receiving opening in its bottom and being secured at its bottom in sealing relationship to said boss by being clamped upon the boss by a shoulder on said shaft, the stator cover shield having an outturned end flange sealed to the outer flanged edge of said casing, a rotor body rotatably mounted on said shaft within said stator cover shield, said rotor body having an annular angular recess at the inner end adjacent the bottom of the casing, an armature assembly mounted in said recess, a cup-shaped armature cover shield of thin non-magnetic metal secured at its bottom in sealing relationship to the inner end of said rotor body and having its upper edge sealed to the rotor body beyond the upper edge of the armature, a pump impeller secured on the outer end of said rotor body, a pump casing around said impeller, a separable shaft extension secured to the end of said shaft, a resilient mounting between the end of said shaft extension and the bottom of said pump casing, said pump casing having a rim securing the upper flanged edge of the stator cover shield to the upper edge of the stator casing, and means on said shaft extension clamping said pump casing against said stator casing.

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**2,649,049**
**FLUID-SHIELDED DYNAMOELECTRIC DEVICE FOR IMMERSED PUMPS AND THE LIKE**
**Rinaldo F. Pezzillo, Audubon, N. J., and Anthony H. Pezzillo and George C. Tatem, Philadelphia, Pa., assignors to Mono Products Inc., Philadelphia, Pa., a corporation of Pennsylvania**
**Application May 4, 1950, Serial No. 160,054**
**6 Claims. (Cl. 103—87)**

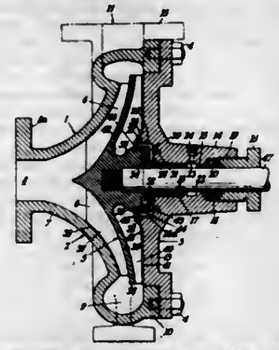


3. In a motor-pump in combination, a cup-shaped liquid-impervious stator casing having an inwardly extending boss on its bottom wall and a hole therethrough, a sealing cap over the outer end of said hole, a shaft bearing in said hole, a shaft rotatably mounted at its inner end in said bearing, an annular stator secured in said casing, a thin cup-shaped outwardly flanged non-magnetic metal shielding cover enclosing said stator interiorly, said shielding cover having a hole in the bottom receiving said shaft and being sealingly clamped at its free edge around the opening in its bottom to said boss and being clamped at its free outwardly flanged edge at its upper end to the outer edge of said stator casing, a rotor mounted on said rotor shaft, said rotor including an armature, a thin non-magnetic metal shielding cover fully enclosing said armature, said armature cover having a cylindrical side wall and end walls with holes in the end walls receiving the shaft, sealing means between said armature cover ends and said shaft, a plate over the open end of said stator casing, said plate having a hole carrying a bearing receiving said shaft, said plate at its outer edge fitting over the outwardly flanged edge of said stator shielding cover, said shaft extending out through said plate, a pump impeller secured on the outer end of said shaft, a pump casing around said impeller, said pump casing having its outer edge overlying the outer edge of said plate, resilient shock-absorbing sealing packing between the outer edges of said stator casing and said shielding cover, and between said plate and said pump casing, an angular clamping ring around the outer edge of said stator casing, resilient shock-absorbing sealing packing within said clamping ring, and means securing said clamping ring upon the edges of the stator casing and pump casing and holding them in clamped and sealed relationship.



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**2,649,050**
**CENTRIFUGAL PUMP**
**Thomas James Rimbault Dibdin, Maghull, Liverpool, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York**
**Application April 9, 1951, Serial No. 220,069**
**In Great Britain February 2, 1950**
**11 Claims. (Cl. 103—103)**

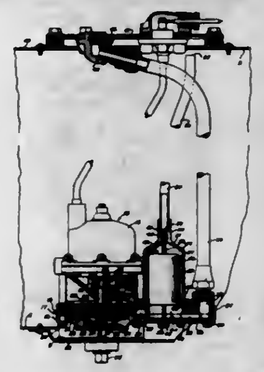


1. A centrifugal pump comprising a casing having an inlet side wall with an inlet centrally thereof, a bearing side wall opposite and spaced from said inlet side wall and a peripheral offtake wall forming an impeller chamber between said side walls, said bearing side wall having a bearing centrally thereof and a recess between said bearing and said impeller chamber, a shaft extending through said bearing and recess into said impeller chamber and an impeller in said impeller chamber comprising a hub mounted on said shaft within said impeller chamber and extending into said recess a plate mounted rigidly at its center on said hub and in spaced relation to said side walls and having blades extending from its opposite faces to a slight clearance to said side walls and radially outwardly from said hub, the bearing side wall being curved towards the impeller plate as it approaches said recess and the adjacent edges of said blades being curved complementarily to direct fluid moving radially inwardly of said bearing side wall to the blades of said impeller.

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**2,649,051**
**FUEL FEED SYSTEM**
**George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware**
**Application November 12, 1946, Serial No. 709,123**
**9 Claims. (Cl. 103—113)**

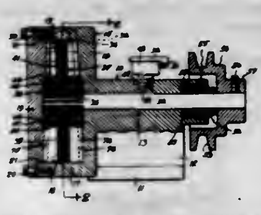
1. In a tank-mounted, submerged type pumping unit for volatile fuels, the combination in a pump of means for separating vapors and gases from the fuel by circulation of the fuel and for venting the vapors and gases separated to maintain pump efficiency and delivery pressures, comprising a body for said pump including an intake, a pump discharge port, an open circulating chamber between said intake and said port for separation of vapors and gases from the pump, and a pump discharge passage leading from the pump intake to and through said chamber to the said port, a closure for said chamber to trap the



vapors and gases separated, a vapor-gas vent in the closure, and means including a vent valve and a fluid actuated means for the valve in the chamber operative by the fluid delivered by the pump to control the vent.

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**2,649,052**
**ROTARY PUMP OR MOTOR**
**Ferdinand M. Weyer, Detroit, Mich., assignor to Marine Products Company, Detroit, Mich., a corporation of Michigan**
**Original application April 17, 1947, Serial No. 742,168. Divided and this application December 26, 1950, Serial No. 202,715**
**4 Claims. (Cl. 103—117)**



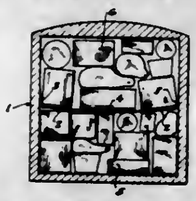
1. A rotary pump or motor comprising a hollow casing having an approximately cylindrical pump chamber with axially-spaced end walls and a cylindrical peripheral wall joining said end walls, said casing having circumferentially-spaced fluid intake and discharge ports, a shaft rotatably mounted in said casing, at least one of said end walls being inclined relatively to the axis of said shaft substantially entirely across said chamber and causing said end walls to converge toward said ports, and a rotor having a hub portion mounted on said shaft and having radially-extending vanes of elastic deformable material, the peripheral edges of said rotor vanes engaging said cylindrical wall and the side edges thereof engaging said inclined end walls and flexing parallel to the axis of the pump in response to the convergence thereof, said vanes at their inner ends being cut away from said hub portion.

**2,649,053**
**ROTARY MACHINE**
**Nils Nilsen Strätveit, Oslo, Norway**
**Application December 30, 1947, Serial No. 794,556**
**In Norway October 14, 1943**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires October 14, 1963**
**7 Claims. (Cl. 103—131)**



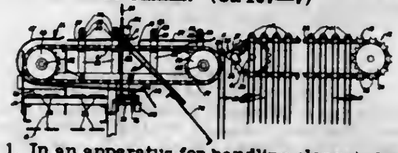
1. A rotary machine comprising a closed casing with inlet and outlet openings, said casing having a working space limited by spaced concentric cylinder walls, partition means between said inlet and outlet openings in said working space separating the outlet side of the working space from the inlet side thereof, a piston adapted to operate in the said casing between the said cylinder walls, said piston being slotted for movement about said partition means, a drive shaft rotatably journalled in said casing, means adapted to transmit the working movements of the said piston, said means connecting said piston to said drive-shaft, controlling means adapted to govern the movements of said piston being connected to the said casing and the said piston, and being positioned outside the said working space, and inside the innermost surface of the working space.

**2,649,054**
**TRUCK LOADING**
**Dean E. Rueckert, Mokena, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois**
**Application October 12, 1949, Serial No. 120,963**
**4 Claims. (Cl. 105—370)**



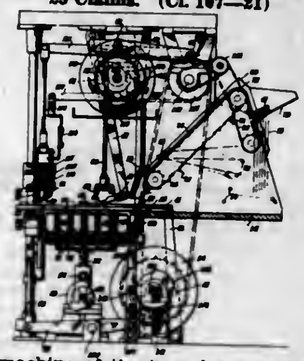
1. Means for distributing a substantial proportion of the vertical weight stress exerted by a superimposed portion of the vehicle load to the vehicle side walls comprising: a plurality of flexible straps spaced at substantial intervals longitudinally of said vehicle body side walls and affixed thereto at points equidistant from the vehicle body floor, said straps extending transversely of said vehicle body so as to form a horizontal platform parallel to said floor; means for positively applying tension solely in a horizontal plane to each of said straps individually; and means for securing such straps in such individually-tensioned condition whereby to assume a part of the vertical weight stress of the superimposed load.

**2,649,055**
**HANDLING APPARATUS FOR SPAGHETTI AND THE LIKE**
**Alfonso Borrelli, Fresno, Calif.**
**Application August 13, 1951, Serial No. 241,586**
**10 Claims. (Cl. 107—7)**



1. In an apparatus for handling elongated substantially U-shaped strands of material looped over supporting rods and having downwardly extended ends, the combination of a substantially horizontal strand receiving member, means for individually carrying material supporting rods in substantially horizontal attitude across the receiving member in elevationally spaced adjacent substantially parallel relation thereto to drag the material supported by the rods across the member and for individually returning the rods across the member in increased proximity to the member, a wall pivotally mounted adjacent to the strand receiving member at the side thereof from which the rods are carried across the receiving member for movement between a substantially horizontal position extended away from the conveyor for the dragging of the strands thereacross and a substantially erect position for abutting the ends of the strands to hold said strands on the receiving member during return movement of the rods whereby the rods are separated from the strands, and a control arm mounted on the wall and upwardly extended therefrom into the elevated path of movement of the rods across the receiving member for engagement therewith to move the wall into substantially erect position and said arm into depressed position below the return path of movement of the rods, the wall in substantially erect position being disposed in the return path of movement of the rods for engagement therewith to move said wall into its substantially horizontal position and to return the arm to its upwardly extended position.

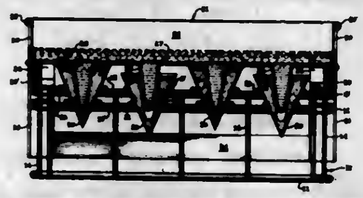
**2,649,056**
**ALIMENTARY FOOD PRODUCT MACHINE**
**Ferdinand Autenrieth, Irvington, N. J., assignor to C. F. Mueller Co., Jersey City, N. J., a corporation of Delaware**
**Application May 7, 1949, Serial No. 91,895**
**25 Claims. (Cl. 107—21)**



1. A machine of the type described including in combination means for conveying bars over which the looped ends of food products are disposed, means causing said products to be displaced with respect to said bars to cause said ends to be spaced therefrom and means for severing the spaced ends of such products at points beyond such bars.

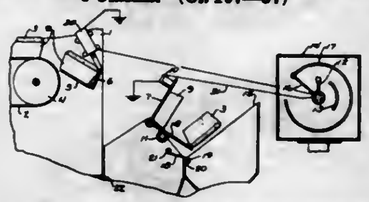


**2,649,057**
**CONFECTION MOLDING**
**Clarence R. Niklason, Arlington County, Va.**
**Application July 31, 1947, Serial No. 765,015**
**3 Claims. (Cl. 107—54)**



1. A process for making a frozen confection comprising the steps of, inserting a plurality of molding elements into masses of fluid confectionary material to define indentations in the material, removing heat from the confectionary material by way of the indentation molding elements to freeze the confectionary material and produce a frost bond therebetween, raising the indentation molding elements to suspend the masses of confectionary material therefrom, and supplying heat to the confectionary material by way of the indentation molding elements to break the frost bond suspending said masses.

**2,649,058**
**APPARATUS FOR UNLOADING CONTINUOUS BAKING OVENS**
**Austin A. Holbeck, Detroit, Mich.**
**Application December 1, 1950, Serial No. 198,660**
**6 Claims. (Cl. 107—57)**



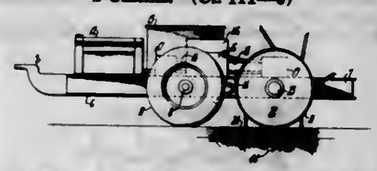
1. In apparatus for unloading and depanning bread baked in an oven having an inclined hearth onto which the loaves of bread are delivered in pans from a conveyor operating in the bake oven, and the pans and the bread are detained on the inclined hearth, the combination of a rotating unloader wheel provided with a pair of shelves, one of which is adapted to receive the bread and pans when the shelf registers with the inclined hearth and the bread in the pans is released from detainment on the inclined hearth, the other shelf being angularly spaced from the first mentioned shelf and receiving the bread in the pans in the crotch between the two shelves, a magnet on one of the shelves for holding the pans and the bread when the unloader wheel rotates to a position where the pans and the bread would be disengaged from the crotch between the two shelves by gravity, a vibrator secured to one of the shelves for vibrating the pans and the bread to jar the bread loose from the pans, and means for catching the pans and pulling them loose from the magnetic force of the magnet when the unloader wheel has rotated to a position where the bread has been discharged and where the pans can be dropped.

**2,649,059**
**HYDROCARBON STORAGE TANK WITH STRENGTHENED ROOF**
**Robert Maurice Mercier, Paris, France, assignor to Societe pour le Renforcement des Domes de Reservoirs a Petrole, Paris, France (societe a responsabilite limite)**
**Application December 17, 1945, Serial No. 635,511**
**In France December 19, 1944**
**4 Claims. (Cl. 105—1)**



1. A reservoir of the type used for storing hydrocarbons comprising a vertical cylindrical metallic wall, a metallic air-tight roof, a cover of reinforced concrete poured upon the external face of said metallic roof and adhering to said roof for reinforcing said roof against internal subpressures and superpressures, a reinforced concrete beam ring molded upon the exterior wall of the upper portion of said cylindrical metallic wall to which said reinforced concrete cover is connected, said ring being designed to absorb radial forces which are transmitted to it by the reinforced concrete cover under the influence of internal superpressures and subpressures and to secure the fixing of the concrete assembly upon the metallic cylindrical wall, solely by adherence of the concrete to the metal and by the surrounding in concrete of the natural ruggedness of the metal and the heads of the rivets, the entire structure being calculated and carried out in such a way that the metallic wall of the roof no longer has to intervene particularly in the resistance of the structure to the effects of internal subpressures and superpressures.

**2,649,060**
**SOIL TREATING MACHINE**
**Charles A. Hawkins and Frank H. Zehrbaugh, Fresno, Calif., assignors to Charles A. Hawkins, Fresno, Calif.; Odelia Combs Hawkins and Matilda B. Anway, coexecutors of said Charles A. Hawkins, deceased**
**Application November 7, 1949, Serial No. 125,948**
**2 Claims. (Cl. 111—6)**



1. A soil treating machine comprising, a frame adapted to be advanced over the ground, a drum journalled on said frame for rolling contact with the ground, a pin projecting from the periphery

of said drum and pivotally mounted thereon for ground penetration and withdrawal during rolling of said drum and for pivotal movement relative to said drum from a first to a second position, means normally urging said pin to said first position but permitting movement to said second position during said ground penetration and withdrawal, conduit means on said drum for conducting a soil additive to a ground penetrating portion of said pin, a valve in said conduit and mounted directly on said drum, valve control means operated by said movement of said pin from said first to said second position to open and then close said valve, said control means including an element movable with said pin along a predetermined path of movement and a movable valve opening member in said path of movement of said element, said valve control means further including mechanism operable by movement of said pin into said second position for moving said element relative to said pin to move therewith along a different path of movement so that return movement of said pin from said second to said first position does not open said valve.

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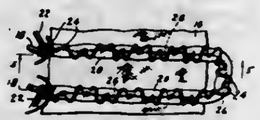
**2,649,061**
**SOIL TREATING DEVICE**
**Charles A. Hawkins, Fresno, and Frank H. Zehrbaugh, Los Angeles, Calif.; said Zehrbaugh assignor to said Hawkins; Odelia Comba Hawkins and Matilda B. Anway, coexecutors of said Charles A. Hawkins, deceased**
**Application November 24, 1947, Serial No. 787,794**
**4 Claims. (Cl. 111—6)**



1. A soil treating apparatus comprising a drum adapted to be advanced on the ground in rolling contact therewith, a tube pivotally mounted on said drum to project outwardly therefrom, said tube penetrating and withdrawing from the ground as said drum rolls thereover and pivoting relative to said drum through a predetermined angle while in the ground, a liquid conduit on said drum connected to said tube, and a valve controlling flow of liquid in said conduit, said valve being opened by said relative pivotal movement of said tube on said drum and held open during an intermediate part only of said angle of pivotal movement.

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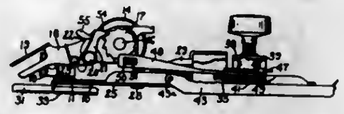
**2,649,062**
**PUCKERED FABRIC**
**Raymond S. Nogler, Pasadena, and Stewart D. Menzies, Manhattan Beach, Calif., assignors to Catalina, Inc., Los Angeles, Calif., a corporation of California**
**Application November 17, 1950, Serial No. 196,196**
**2 Claims. (Cl. 112—1)**



1. A puckered panel for a garment composed of a layer of substantially non-resilient material of a predetermined configuration and a continuous length of resilient cord stitched thereto in parallel lines with U-shaped loops at the edges of the fabric, these stitches being applied to the cord at the U-shaped turns but not to the fabric.

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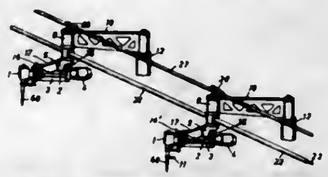
**2,649,063**
**BUTTONHOLE ATTACHMENT FOR SEWING MACHINES**
**Herbert H. Russell, New Haven, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut**
**Application October 27, 1950, Serial No. 192,430**
**5 Claims. (Cl. 112—77)**



5. A buttonhole attachment for sewing machines comprising a supporting frame, a lever pivotally mounted thereon, a feed blade, means connecting said feed blade to the frame for oscillatory and sliding movement relatively thereto, cooperating means for effecting oscillating and sliding movements of the blade, comprising a shaft carried by the lever, a pinion on said shaft, a rack on the feed blade with which said pinion is engaged, a ratchet wheel on said pinion shaft, a second ratchet wheel rotatably mounted on the frame and connected to the lever to actuate the same about its pivot, a pawl member engaged with each of said ratchet wheels, each of said pawl members being actuated by the fork arm, and spring means for holding the associated pawl member out of engagement with said second ratchet wheel.

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**2,649,064**
**TUFTING MACHINE**
**Paul Dürrschmidt, Munich, Germany**
**Application February 27, 1951, Serial No. 212,989**
**In Germany February 27, 1950**
**5 Claims. (Cl. 112—79)**

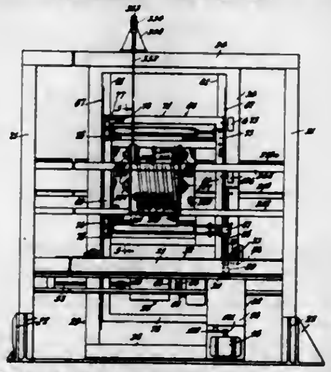


1. A carpet tufting machine assembly comprising in combination a plurality of carpet tufting tool carrier heads in spaced relationship to operate on a number of separate carpets and including tools turnable in said heads about vertical axes, a plurality of vertical pivotal supports as many as there are tool carrier heads, a two-part jib for each of said supports and mounted with a first part thereon, said jib including a pivot pin having a horizontal axis and being hinged to said first jib part so as to be turnable with respect thereto about a vertical axis, said pivot pin carrying said second jib part turnable about said horizontal axis one of said tool carrier heads being mounted on said second jib part so as to be movable up and down relatively to said first jib part, a linkage between all said jibs to maintain parallelism thereof, first transmission means between the tools of all said carrier heads whereby a turn of the tools in the one head causes similar turns of the tools in the other heads, and second transmission means between said carrier heads whereby any up or down movement of one carrier head effects a similar movement of the other heads.



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**2,649,065**
**EMBROIDERY MACHINE AND CODED-TAPE CONTROL MEANS**
**Louis Casper, Richmond Hill, N. Y., assignor to Electrotext Corp., New York, N. Y., a corporation of New York**
**Application December 7, 1948, Serial No. 63,879**
**18 Claims. (Cl. 112—84)**



13. In a textile loom of the type described, a plurality of stitching needles, a fabric carrying frame, a first electrically operated means for moving said frame to place any elementary area of said fabric in stitching position with respect to any one of said needles, a second electrically operated means for operating any one of said needles in a stitching operation, a tape having codes perforated therein to represent according to a predetermined plan a design to be stitched on said fabric, said codes being in pairs with one of each pair representing an operation of said first electrically operated means and the other of the pair an operation of said second electrically operated means, means for sensing said perforations one code at a time and means including said tape for alternately controlling said first and second electrically operated means to stitch the design represented by said tape on said fabric.

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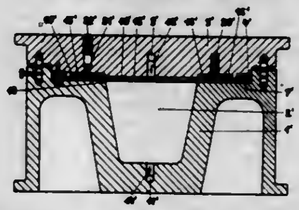
**2,649,066**
**HEM-FOLDING ATTACHMENT**
**Nicholaus Knaus, Cranford, and Agnes G. Millington, Clifton, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**
**Application July 13, 1950, Serial No. 173,536**
**4 Claims. (Cl. 112—141)**



1. A sewing machine hemming attachment comprising, a presser-foot including an elongated sole-plate, and a toe projecting from the forward end of and being inclined relative to said sole-plate, and a work-folding member including a length of wire bent intermediate its two ends into a substantially U-shaped member whose two limbs extend in parallelism with each other and transversely of said sole-plate, the spacing between such two limbs being substantially one quarter of an inch one of said limbs being secured to the presser-foot toe so as to support the entire wire thereby, and the free end portion of the other limb being bent at right angles to the body portion of such limb and extending lengthwise of and terminating beneath the inclined presser-foot toe.

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**2,649,067**
**DEVICE FOR MAKING HOLLOW BODIES OF SHEET METAL UNDER HYDRAULIC PRESSURE**
**Heinrich Ewald Kranenberg, Remscheid-Lennep, Germany**
**Application February 15, 1952, Serial No. 271,659**
**In Germany December 16, 1949**
**4 Claims. (Cl. 113—44)**



1. The device for forming hollow bodies from a working element under hydraulic pressure comprising a pressure die, having an operative pressure face and having means for feeding pressure fluid to the pressure side of the said pressure die, the said feeding means terminating in the said operative pressure face of the said pressure die, and a forming die defining a forming chamber of a shape conforming to that to be formed from the said working element and having a shoulder surrounding the said chamber of the said forming die, the said chamber having fluid under pressure therein, a sealing ring carried by and extending beyond the operative pressure face of the said pressure die, disposed opposite the said shoulder of the said forming die, and engaging the face of the said working element, a distancing ring disposed at the periphery of the said shoulder of the said forming die spacing apart the latter from the said pressure die a distance which is greater than the thickness of the said working element together with that portion of the said sealing ring extending beyond the said operative pressure face of the said pressure die to provide space for a veil-thin layer of hydraulic fluid between the said working element and the said shoulder of the said forming member and to surround the edge portion of the said working element with the pressure fluid of the said forming chamber, the said pressure prevailing in the said pressure die being greater than that prevailing in the said forming die, so that the pressure fluid from the said pressure die will engage the face of the said working element within the limits of the said sealing ring, while the same face of the said working element outside the limits of the said sealing ring and the opposite face of the said working element is engaged by the fluid of the said forming chamber and a veil-thin layer of pressure fluid

from the said forming chamber is disposed between the said opposite face of the said working element and the shoulder of the said forming die.

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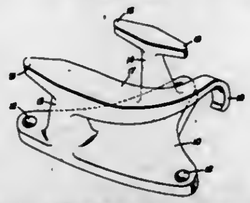
**2,649,063**
**SHIP STABILIZER**
**Hubert P. Lasseter, Havana, Fla., assignor of one-half to George P. Koelliker, Tallahassee, Fla.**
**Original application February 27, 1946, Serial No. 650,399. Divided and this application November 17, 1949, Serial No. 127,885**
**1 Claim. (Cl. 114—126)**



A stabilizing means for a ship having a floating hull structure, a portion of which extends above the water line, a plurality of spaced transverse supports extending outwardly on opposite sides of said hull structure, depending members carried by said supports, horizontally extending vertically disposed plates carried by said depending members and positioned partly below and partly above the water line, a plurality of upwardly and forwardly inclined stabilizer plates carried by said vertical plates disposed between the latter and the hull structure, a skeleton bow frame fixed to said vertical plates and said hull structure, a plurality of vertically disposed vanes in said frame, means pivotally mounting said vanes whereby said vanes may be disposed in closed position or in open wave breaking position.

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**2,649,069**
**BITT CHOCK**
**Charles G. Halpine, Annapolis, Md.**
**Application January 11, 1950, Serial No. 138,042**
**3 Claims. (Cl. 114—218)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

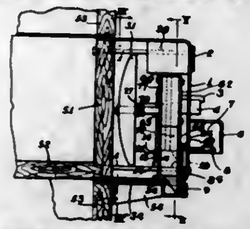


1. A chock comprising an upwardly tapered post; and a second tapered post arranged in spaced relation to said first mentioned post, said posts being provided with extensions projecting laterally at the top of each post for preventing a line looped around them from slipping off said posts, and said extensions each having a lower surface substantially normal to its respective post.

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**2,649,070**
**TILL LOCK WITH ALARM**
**Menachem Rotman, Philadelphia, Pa.**
**Application July 21, 1952, Serial No. 301,905**
**In Germany October 9, 1951**
**8 Claims. (Cl. 116—76)**

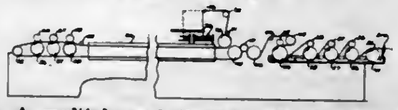
1. In a lock constructed and arranged to be affixed to cash drawers and the like, a movable latch; means normally urging said latch to extended locking position; a lift-key or the like for manually shifting the latch to retracted disengaged position; a movable bolt located within the housing and shiftable into extended position blocking movement of the latch; a spring urging said bolt toward latch-blocking position; means for releasably holding the bolt in retracted position, said last-mentioned means including a manually operable locking-pin constructed and arranged normally to prevent spring-actuated movement of the bolt but being shiftable to bolt-releasing and latch-blocking position; means, separate from the locking-pin and including a removable key or the like, for returning the bolt to retracted position thereby freeing the latch, and means for sounding an audible signal each time the latch is shifted to



retracted position, said last-mentioned means comprising a bell or the like and trip-hammer mechanism including a lever pivoted intermediate its ends and having a bell clapper mounted at one end and a spring urging the lever to bell-striking position, a slidable member connected to, and linearly movable with, the lift-key and carrying a spring-extended retractable engaging latch constructed and arranged normally to underlie the other end of the lever so as to cause tilting of the lever against the pressure of the lever spring during the early portion of the retracting movement of the latch, the end of the lever slipping off the engaging latch and permitting the spring-actuated bell-striking opposite tilting of the lever upon continued retraction of the latch.

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**2,649,071**
**THREAD TREATING MACHINE**
**Russell B. Newton and Ollie L. Williamson, Danville, Va., assignors to Dan River Mills, Inc., Danville, Va., a corporation of Virginia**
**Application April 24, 1948, Serial No. 22,057**
**10 Claims. (Cl. 118—33)**

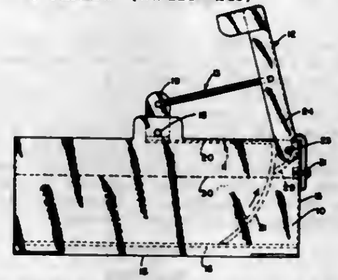


1. A multiple end thread treating machine having a bath of treating liquid, which comprises a plurality of supply spools, common means for simultaneously conducting ends from said supply spools through a bath of treating liquid, means comprising a reverse rotation roll with slip contact on said ends for exerting light individual tension on said ends between the spools and said bath to remove low stretch characteristics, extended means having an initial entrance and a final outlet for drying said treated ends, means for compacting said ends ahead of said drying means, common means for simultaneously conducting said treated ends through said drying means and to impart thereto a predetermined stretch, and means between the entrance and the exit of the drying means for materially compressing said ends while stretched and drying, said last named means comprising at least one pair of rollers arranged outside and independently of said drying means with parallel but spaced axes, one on each side of said ends, to carry said ends out of and back into said drying means during the drying thereof, and means for accurately controlling the space between surfaces of said rolls to exert a compressing force on said ends.



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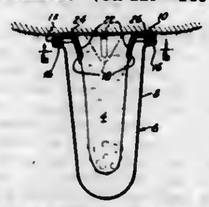
**2,649,072**
**APPLICATOR FOR SEALING PACKAGES**
**Harry G. Holtz, Oak Lawn, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois**
**Application January 27, 1951, Serial No. 208,210**
**5 Claims. (Cl. 118—243)**



1. An applicator including a liquid container, said container having an opening in the top thereof, a dispensing arm pivotally attached to said container, said arm being constructed and arranged to move along a path between a first position within said container to a second position externally of said container, a pressure plate externally of said container, said plate having an opening therethrough, said plate being movable from a first position to a second position at which the location of said opening substantially coincides with the second position of said arm, and actuating means connecting said plate and said dispensing arm to move said arm from said first to said second position in response to movement of said plate from said first to said second position whereby said arm is exposed through the opening in said plate, said actuating means including a pair of levers interconnecting said plate and said arm.

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**2,649,073**
**TEAT PROTECTOR FOR DAIRY CATTLE**
**Reuben E. Smith, Margaretsville, N. Y.**
**Application July 12, 1950, Serial No. 173,560**
**5 Claims. (Cl. 119—146)**



1. In a device of the character described for protecting the teat of a cow, the combination of, a retaining ring of rubber or the like and having an outer rim portion with radial portions which project toward each other and are adapted to be flexed and to exert resilient pressure and an imperforate cup of substantially rigid material removably held at its upper edge by said retaining ring.

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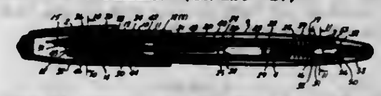
**2,649,074**
**PEN CONSTRUCTION**
**Ray L. Burchett, East Orange, N. J., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey**
**Application June 6, 1947, Serial No. 752,864**
**5 Claims. (Cl. 120—42.03)**



1. A writing implement of the character described, having an elongated barrel open at its lower end, a writing-material holding cartridge having a writing tip member attached to its lower end, said cartridge being enclosed by and held within said barrel and withdrawable endwise through the lower open end of the barrel, said cartridge when in operative position being restrained against angular movement with respect to the barrel, a nose sleeve surrounding said tip member and surrounded by said barrel, said sleeve being movable angularly with respect to both said barrel and cartridge and said sleeve and one of said barrel and cartridge members having relatively inclined parts engaging upon relative angular movement of said sleeve as aforesaid to move said sleeve longitudinally between tip exposing and tip covering positions and said sleeve also being slidable longitudinally from tip covering to tip exposing positions without angular movement thereof during longitudinal movement thereof.

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**2,649,075**
**FOUNTAIN PEN OF THE PUMP TYPE**
**Ernest B. Blockert, New York, and Anthony Marino, Brooklyn, N. Y.**
**Application September 12, 1949, Serial No. 115,284**
**6 Claims. (Cl. 120—47)**

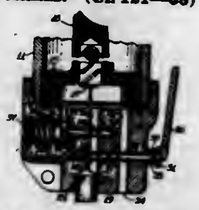


1. In a fountain pen of the class described, in combination, a pump shell with a large opening at one end and having a reduced opening at the other end, a large plug secured in said large opening, said large plug having an enlarged mouth facing away from said open end and a central hole, a valve unit comprising a tube slidable through said central hole in said large

plug, an outer stem and an inner stem at the opposed ends of said tube and an enlargement at the outer end of each of said stems, a small gasket upon said tube adjacent the enlargement of said outer stem, a plunger having a bore and an enlarged end slidable as part of a piston in said pump shell, said plunger normally extending through said reduced opening of said pump shell, a small plug secured to one end of said plunger, an angular groove adjacent said enlarged end of said plunger, a large gasket within said annular groove sliding against the inner walls of said pump shell, said enlarged end of said plunger presenting an annular shoulder encircling said small plug, and a compression helical spring having one end seated in said enlarged mouth of said large plug and its other end abutting said annular shoulder of the enlarged end of said plunger, said compression spring maintaining said plunger and said small plug in its extended position with said enlargement of said outer stem within the open end of said pump shell, outward movement of said plunger by said compression spring maintaining said small gasket adjacent said outer stem in abutment and in sealing contact with said large plug, inward movement manually of said plunger carrying said valve unit inwardly and further inward movement of said plunger causing the end of said bore of said plunger to abut the enlargement of said inner stem opening said valve.

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**2,649,076**
**POWER-OPERATED TOOL WITH AUTOMATIC CONTROL VALVE SYSTEM**
**Henry Peter Dupre, Croton-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York**
**Application June 20, 1950, Serial No. 169,178**
**5 Claims. (Cl. 121—38)**

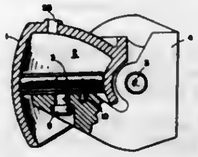


1. A fluid operated tool comprising a cylinder, a piston slidably mounted in the cylinder for moving one part of the tool with respect to another, intake and exhaust ports leading to the cylinder, means to connect said intake port to a source of fluid pressure, a manually operable valve positioned between the cylinder and the source of power and intersecting the intake and exhaust ports movable alternately to open and block the respective ports, means to actuate the valve to admit fluid pressure to the cylinder, and means in the tool for automatically controlling the blocking of fluid to the tool at the end of the power stroke of the piston.

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**2,649,077**
**PISTON ASSEMBLY FOR OSCILLATORY HYDRAULIC ACTUATORS**
**Joseph A. Mehm, Huntington Park, Calif., assignor to North American Aviation, Inc.**
**Application July 30, 1951, Serial No. 239,977**
**2 Claims. (Cl. 121—38)**

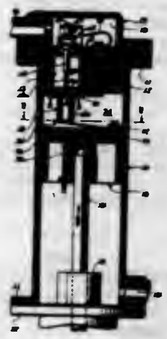
1. In an hydraulic actuator for producing oscillatory motion having a pressure chamber shaped like a portion of a torus, a piston within said chamber having a circumferential O ring groove of rectangular cross-section, an inner flange concentric with said O ring groove, an outer flange eccentric with said O ring groove said flange being tapered from the inner face thereof to the outer face thereof, and a wiper ring groove of rectangular cross-section concentric with said O ring groove, an O ring which cooperates with said O ring groove in said piston to seal said torus-shaped pressure chamber in said



body, a back-up ring fitted with said O ring in said O ring groove to prevent extrusion of said O ring at high pressures, a wiper ring within said wiper ring groove to keep foreign material out of said pressure chamber and to distribute lubricant in said pressure chamber, a screw to attach said arm to said piston, and a dowel to prevent said piston from rotating about said screw to thereby cause said arm to rotate with respect to said body when fluid under pressure is applied to said pressure chamber.

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**2,649,078**
**GAS EXPANSION ENGINE**
**Frederick G. Kelly, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey**
**Application April 4, 1951, Serial No. 219,210**
**6 Claims. (Cl. 121—123)**



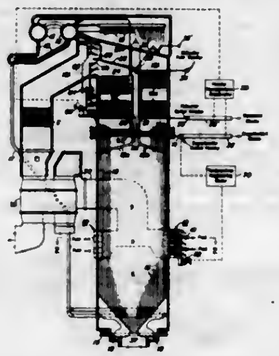
1. A gas expansion engine comprising a cylinder having a head at one end provided with an intake port, a piston movable in said cylinder, a poppet valve for said intake port normally held closed by the gas inlet pressure and having a stem projecting towards said piston, a plunger slidably mounted on said stem and having an inner portion partially closing said intake port and an outer portion extending into said cylinder into the path of said piston, a stop element on said stem engaged by said plunger in the end portion of the return stroke of said piston for positively opening said intake valve, means for yieldably holding said intake valve open, and



means for closing said intake valve during the forward stroke of said piston comprising a second stop element on said stem engaged by said plunger under pressure of the inrushing gas thereagainst as the piston in its forward stroke leaves contact with the plunger.

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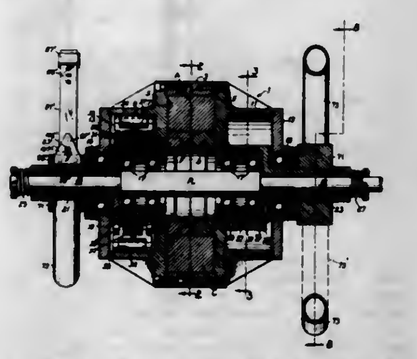
**2,649,079**
**STEAM GENERATOR AND SUPERHEAT-REHEAT CONTROL MEANS THEREFOR**
**John Van Brunt, Flushing, N. Y., assignor to Combustion Engineering, Inc., a corporation of Delaware**
**Application January 28, 1949, Serial No. 73,274**
**3 Claims. (Cl. 122—479)**



1. In a steam generator operating under the reheat cycle, in which a predetermined controlled relationship must be maintained between the superheat and the reheat; a setting providing a combustion chamber and a gas chamber in communication therewith; steam generating tubes lining the walls of said combustion chamber; burners for introducing into said combustion chamber streams of fuel and air which create a mass of burning gas within the chamber's tube lined walls; means in the gas chamber providing at least two parallel gas passes through which the products of combustion flow from the combustion chamber out of the setting; a superheater for superheating the generated steam and disposed in one of said two passes; a steam reheater for reheating steam and disposed in the other of the passes; burner tilting means responsive to variations in the temperature of said reheated steam for directing the said fuel and air streams issuing from said burner means either toward the combustion chamber outlet in response to a decrease in reheat and towards the inlet of each of said two gas passes, or away from the outlet of said combustion chamber in response to an increase in reheat and away from the inlet of each of said two gas passes so as to alter the location within the water walled combustion chamber of said burning gas mass with respect to the water cooled walls and thereby change the temperature of the combustion products flowing through the passes over the superheater and the reheater, said gas temperature change resulting in a disturbance of said predetermined temperature relationship; and damper means cooperating with said superheater pass and with said reheater pass and positionally adjustable in response to variations in the aforesaid predetermined temperature relationship to proportion the combustion gas flow through each of said two passes and thereby re-establish said predetermined temperature relationship between the superheated steam and the reheated steam.

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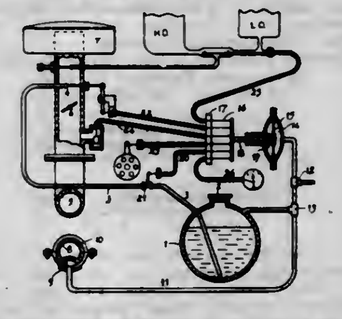
**2,649,080**
**ROTARY EXPANSION ENGINE**
**George E. Mallinckrodt, St. Louis, Mo.**
**Application March 12, 1952, Serial No. 276,084**
**11 Claims. (Cl. 123—11)**



1. A rotary machine comprising at least two cooperating rotary systems, means for effecting collision events between them, wherein alternately one system advances upon the other to effect such an event and the other system may recede, means operative between collision events to prevent the rotary systems from reversing, and a substantially freely vibratory mass resiliently connected with each rotary system.

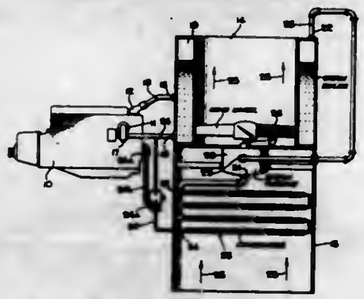
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**2,649,081**
**CHARGE FORMING DEVICE**
**Laurence Ernest Martienssen, Parkview, Johannesburg, Transvaal, Union of South Africa**
**Application August 1, 1949, Serial No. 105,004**
**In the Union of South Africa August 5, 1948**
**17 Claims. (Cl. 123—25)**



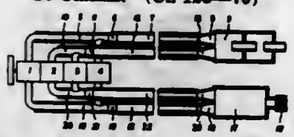

1. An improved method of operating an internal combustion engine, which comprises injecting, in amounts regenerated with the aid of a pressure head of exhaust gas from the engine, low-octane fuel from an air-tight container for said fuel into the carburettor which is connected with a source of fuel of better octane number, the supply of which is shut off in like manner as the low octane fuel is supplied.

**2,649,082**
**ENGINE COOLING SYSTEM UTILIZING WASTE HEAT**
**Lloyd C. Harbert, Los Angeles, and William G. Corey, Altadena, Calif., assignors to Engineering Controls, Inc., Los Angeles, Calif., a corporation of California**
**Application June 3, 1950, Serial No. 165,974**
**12 Claims. (Cl. 123—41.25)**



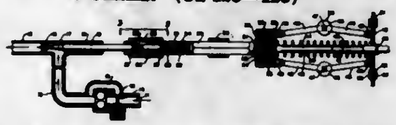
1. In an engine cooling system of the character described, an engine having a cooling jacket included in a liquid cooling circuit of limited heat dissipation whereby the liquid in the engine jacket is heated therein to substantially vaporizing temperatures in normal operation of the engine, said jacket having an inlet and an outlet, said circuit including a vapor separator having an inlet, a vapor outlet and a liquid outlet, said liquid outlet being in communication with said jacket inlet, said separator inlet being in communication with said jacket outlet, a low pressure turbine having its inlet in communication with the vapor outlet of said separator, a condenser having its inlet in communication with the turbine outlet and its condensate outlet in communication with said cooling circuit, and means driven by said turbine cooling said condenser.

**2,649,083**
**SUPERCHARGING FOUR-STROKE INTERNAL-COMBUSTION ENGINE**
**Wilhelm Vogel and Hans Seifert, Augsburg, Germany, assignors to Maschinenfabrik Augsburg-Nurnberg A. G., Augsburg, Germany, a corporation of the German Republic**
**Application February 5, 1951, Serial No. 209,383**
**In Germany February 22, 1950**
**10 Claims. (Cl. 123—75)**



1. A supercharged four-stroke cycle internal combustion engine adapted for producing successively power, exhaust, intake, and compression strokes at a predetermined frequency comprising in combination a cylinder, a piston operable within said cylinder, exhaust and inlet ports in said cylinder, exhaust and inlet valves controlling said ports, means for selectively and independently opening and closing said valves at predetermined positions of said piston within said cylinder including means for maintaining both said exhaust valve and said inlet valve open simultaneously for a substantial interval while said piston is approximately at upper dead center between said exhaust and said intake strokes, an exhaust duct communicating with said exhaust port in tuned resonating relation with pulsations from said exhaust port, the length and correlated cross-sectional area of said exhaust duct effecting negative reflection at the end of said duct of pressure waves produced in said duct upon opening of said exhaust valve in timed relation with said predetermined frequency for returning said negatively reflected waves to said cylinder during said simultaneous opening of said exhaust and inlet valves, and an inlet duct communicating with said inlet port in tuned resonating relation with pulsations from said inlet port, the length and correlated cross-sectional area of said inlet duct effecting negative reflection of said negative pressure waves introduced into said inlet duct from said exhaust duct during said simultaneous opening of said valves for returning said reflected waves to said inlet port prior to the closing thereof.

**2,649,084**
**FUEL SUPPLY SYSTEM**
**John Carroll Balsch, Whittier, Calif., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware**
**Application August 11, 1948, Serial No. 43,732**
**3 Claims. (Cl. 123—123)**



1. In a fuel supply system for an internal combustion engine: a source of fuel at a substantially constant superatmospheric pressure; means connecting said source with the engine; a calibrated metering orifice in said connecting means; a longitudinally movable valve, having a stem, for controlling the effective area of said orifice; a member extending longitudinally of said valve stem and aligned therewith and having a longitudinally extending bore in one end in which the adjacent end of the valve stem is slidably received; a guide for said member, said guide and member being so constructed and arranged that the member will slide longitudinally therein but will be held against rotation in said guide; a longitudinally extending slot in the bored portion of said member; a part on said stem extending laterally into said slot, the side walls of said slot holding said part against rotative movement so that said valve stem will not rotate relative to said member; a sleeve rotatable on said member and having a helical slot therein receiving the free end portion of said part; means holding the sleeve against longitudinal movement on said member; and means for rotating said sleeve whereby the valve stem will be moved longitudinally within the bore of said member for varying the portion of said valve relative to said member.

**2,649,085**
**BROILER DOOR AND RACK**
**Robert B. Hurt, Cleveland, Tenn., assignor to Hardwick Stove Company, Incorporated, Cleveland, Tenn., a corporation of Delaware**
**Application April 6, 1950, Serial No. 154,212**
**2 Claims. (Cl. 126—41)**

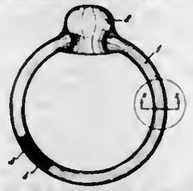
1. In a cooking stove having a broiler compartment positioned below an oven, a broiler drawer having grooved sides, a rod secured to each side of said broiler compartment and extending horizontally in the grooved sides of said drawer to slidably support same, a door for said broiler compartment, cams fastened to said door, said door being pivotally attached to the sides of said drawer near the front thereof by means



of said cams, the weight of said door causing it to rotate to substantially a horizontal position below the level of said drawer when the drawer is pulled out slightly, said cams having laterally extending portions which contact the sides of the drawer when the door is opened to stop the door in a substantially horizontal position.

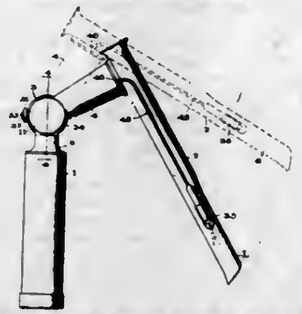


**2,649,086**
**APPARATUS FOR CLOSING OFF THE URETHRA OF WOMEN**
**Henry Sluijter, Rotterdam, Netherlands**
**Application January 16, 1950, Serial No. 138,742**
**In the Netherlands January 17, 1949**
**3 Claims. (Cl. 128—1)**



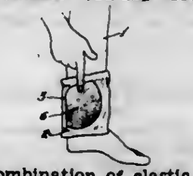
1. An apparatus for closing off the urethra of women, consisting of a ring-shaped elastic tubular member having an outwardly projecting thickened portion, and means in the tubular member to force the latter radially in all directions, whereby the member is deformable only in the plane thereof.

**2,649,087**
**FOLDING LARYNGOSCOPE AND ANGULARLY ADJUSTABLE AND DETACHABLE JOINT THEREFOR**
**William N. Allyn, Auburn, Charles S. Cook, Sennett, Harry A. Browne, Jordan, Frederick McK. Scott, Skaneateles, and John M. Carroll, Elbridge, N. Y., assignors to Welch Allyn, Inc., Auburn, N. Y., a corporation of New York**
**Application February 12, 1951, Serial No. 210,598**
**23 Claims. (Cl. 128—6)**



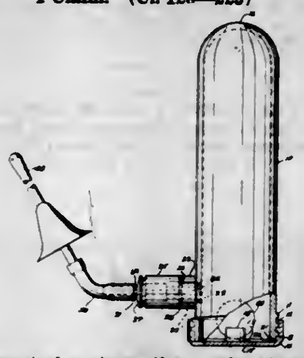
1. A laryngoscope, comprising a handle section, a blade section, and means hingedly interconnecting the sections including complemental relatively rotatable members for enabling said blade section to be angularly adjusted relative to said handle section, shiftable means carried by the first-mentioned means for positively locking said sections in selective adjusted angular positions, and means carried by said shiftable means and engageable with a relatively fixed abutting part of one of said rotatable members for releasably locking said shiftable means in locking relation with said sections to prevent the same from being shifted in one direction.

**2,649,088**
**MEANS FOR THE TREATMENT OF PHLEBITIS**
**Karl Sigg, Binningen, Switzerland, assignor to Medical Fabrics Co., Inc., Paterson, N. J., a corporation of New Jersey**
**Application January 20, 1951, Serial No. 206,945**
**5 Claims. (Cl. 128—156)**



1. In the combination of elastic bandage and a soft rubber component for the treatment of phlebitis, said rubber component being a substantially flat rubber component having a flat base and an opposite face and its edge sloped from the face to the base of the component, said elastic bandage overlying said flat base.

**2,649,089**
**HYGIENIC SYRINGE**
**John E. Fallon, Huntington Park, Calif., assignor, by mesne assignments, to Barclay Pharmaceutical Products Company, Inc., Pasadena, Calif., a corporation of Nevada**
**Application August 8, 1949, Serial No. 109,184**
**1 Claim. (Cl. 128—225)**

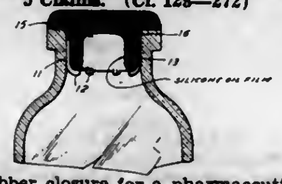


In a surgical syringe, the combination of: a tubular chamber comprising a tube closed at one end and having a wide cylindrical threaded mouth at the opposite end and a tightly fitted screw cap closure on said wide mouth, said chamber having an unobstructed fluid discharge port at its cap end, said port communicating freely and directly with the interior of the cap end of the chamber, so as to directly receive liquid from the lower end of the chamber when the chamber

is held with its cap end downward and gas pressure thereupon begins to build up inside the chamber, spaced lugs formed on the interior side of the cap structurally arranged for ready frictional reception and retention of a tablet containing compounds capable of generating gas when wetted with liquid within the chamber, said spaced lugs positioned to support said tablet above the normal liquid level in the chamber, and a manually operable valve controlling said liquid discharge means, all in such manner that the tablet is fully exposed when the cap is on the chamber but will remain dry while the cap end of the chamber is held upward, but will be immersed in the liquid contents of the chamber to generate gas in the chamber when the chamber is inverted, and also in such manner that said fluid discharge port communicating with the interior of the cap end of the chamber is at the lower end of the chamber in said inverted position, whereby the generated gas is enabled to rise to the top of the chamber and then expand downwardly to drive substantially the entirety of said liquid out of the then bottom-located discharge port.

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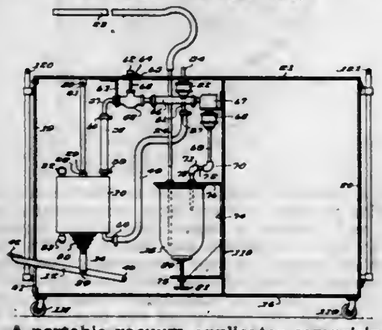
**2,649,090**
**RUBBER CLOSURE FOR PHARMACEUTICAL VIALS**
**Carr Harlan Parsons, Orangeburg, and Walter John Rumpf, Pearl River, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application September 29, 1950, Serial No. 187,538**
**5 Claims. (Cl. 128—272)**



1. A rubber closure for a pharmaceutical vial, consisting essentially of a puncturable rubber plug having ribs on its lower portion, feet extending below the main portion of the plug, and a coating of a moisture-resistant oily non-tacky silicone lubricant whereby the insertion of the closure into a vial is facilitated.

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**2,649,091**
**FOOT ACTUATED VACUUM APPLICATOR**
**Victor Cornelio Valencia, Lima, Peru**
**Application March 8, 1951, Serial No. 214,470**
**2 Claims. (Cl. 128—276)**



1. A portable vacuum applicator comprising a housing mounted on wheels, a vacuum cylinder mounted in said housing and having a piston rod extended therefrom, a foot actuated lever pivotally mounted in the housing and connected to the said piston rod, a precipitator, a bracket in which the precipitator is mounted, means mounting the bracket with the precipitator therein in the housing, a tube connecting the suction side of the cylinder to the outlet of the precipitator, a tube extended from the inlet of the precipitator through the housing, a control valve in the tube extended from the cylinder to the precipitator and check valves in the said tubes.

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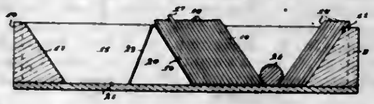
**2,649,092**
**CATHETER**
**Frederick J. Wallace, New York, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York**
**Application October 26, 1949, Serial No. 123,741**
**4 Claims. (Cl. 128—349)**



1. In a catheter, a tubular member closed at its forward end and having a drainage opening at its rearward end, said tubular member having a plurality of circumferentially spaced longitudinal slots formed therein adjacent the forward end, the portions of the tubular member intermediate the extremities of the slots being flexible and distortable and projecting outwardly beyond adjacent portions, means within the tubular member for retracting the forward end thereof with respect to the rearward end to flex said portions further outwardly, said means comprising a flexible member anchored at one end to the forward end of the tubular member, and means carried by the flexible member and adapted to engage the tubular member for releasably retaining the forward end of the tubular member in retracted position.

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**2,649,093**
**SLIDE CONTAINER**
**Joseph W. Rigney, Mesilla Park, N. Mex.**
**Application March 21, 1951, Serial No. 216,755**
**2 Claims. (Cl. 129—16)**



1. A container for projection slides or the like comprising an elongated open top receptacle having end walls provided with downwardly and inwardly inclined inner surfaces and a substantially flat bottom extending between said end walls, a plurality of projection slides contained within the receptacle each disposed transversely thereof, said slides resting on edge on the bottom and being supported in inclined positions against one or both inclined end wall surfaces, and a roller constituting a separator of a length less than the width of the interior of the receptacle disposed therein transversely thereof and resting upon the receptacle bottom, the slides located on opposite sides of said roller being inclined in opposite directions to define an upwardly diverging gap between the slides located adjacent to and in contact with the roller whereby the slides on one side of the roller may be consecutively removed from the receptacle and replaced therein, after being projected, between the roller and the next adjacent slide on the opposite side of the roller for maintaining the slides in sequence, said roller rolling freely along the receptacle bottom as the slides are removed from one side of the roller and applied to the receptacle on the other side thereof.



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**2,649,094**
**SMOKE DIFFUSER FOR MOUTHPIECES**
**Jack L. Barbara, Port Jervis, N. Y.**
**Application December 13, 1951, Serial No. 261,413**
**4 Claims. (Cl. 131—228)**



2. A smoke diffusing attachment for mouth pieces, said attachment comprising a channel member having end plates, said end plates having slots therein, means attached to said end plates for securing the member to a mouth piece, and a conical member extending laterally from the member and having its ends open, and a plurality of baffle forming protuberances on said channel member and projecting from the same side of the channel member as said passageway.

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**2,649,095**
**COMBINATION LIGHTER, CIGARETTE HOLDER, AND ASH TRAY**
**Andrew Stevenson, Los Angeles, Calif.**
**Application October 27, 1947, Serial No. 782,287**
**4 Claims. (Cl. 131—234)**

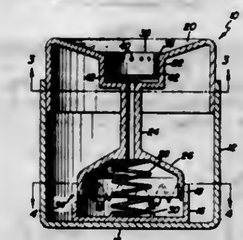


1. In combination, a complete unitary cigarette lighter, and an attachment therefor comprising an ash receptacle adapted to fit upwardly over a portion of the lighter and removable therefrom as a separate unit and a cigarette holder adapted to fit upwardly over said ash receptacle and removable therefrom as a unit.

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**2,649,096**
**CIGARETTE EXTINGUISHING DEVICE**
**James J. Fuller, Rolla, Mo.**
**Application April 3, 1950, Serial No. 153,688**
**1 Claim. (Cl. 131—256)**

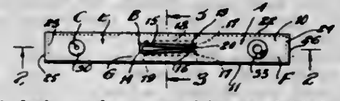
In a cigarette extinguishing device including a container for liquid and pumping means therein, the combination of a cover for said container provided at the center thereof with a central cylindrical well and having an upper surface sloping toward said well, said well having a perimetric side wall and a bottom provided with a central opening communicating with said pumping means, and a cylindrical cigarette extinguishing receptacle positioned in said well and including a perimetric side wall and a bottom wall spaced from the respective side wall and bottom of the well, and an outturned annular flange provided at the upper edge of the side wall of the receptacle and seated on the sloping upper surface of said cover, the side wall of said receptacle being provided with a plurality of



liquid inlet apertures disposed adjacent said flange and with a plurality of orifices disposed adjacent the bottom of the receptacle, said apertures and orifices communicating with the space between the respective side walls of the receptacle and of said well.

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**2,649,097**
**HAIR CURLER**
**Molly Chernack, Brooklyn, N. Y.**
**Application July 12, 1949, Serial No. 104,208**
**12 Claims. (Cl. 132—43)**



1. A hair curler comprising a folded fabric strip and a form-retaining reversely bent elongated U-shaped wire element having the intermediate portion of the sides of the U at the point of bending contacting each other, said element extending longitudinally through and along the central part of said curler to engage a strand of hair to be curled thereon.

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**2,649,098**
**NO-SLIDE SCARF PIN-COMB SET**
**Susie M. Perkins, McPherson, Kans.**
**Application July 5, 1950, Serial No. 172,055**
**1 Claim. (Cl. 132—57)**

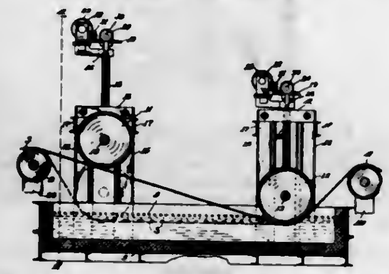


A scarf fastener comprising a comb having a back formed on its edge opposed to the teeth thereof with a centrally disposed longitudinally extending rib, and a relatively flat elongated body of soft penetrable material having its bottom edge formed with a channel for socketing the rib and having a convex top edge, said body being coextensive in length with the back of the comb

and having opposing convex sides of substantially larger radius of curvature than said top edge, said sides protruding outwardly from the sides of the back of the comb.

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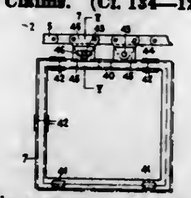
**2,649,089**
**APPARATUS FOR TREATING CONTINUOUS PRODUCTS**
**Ernest L. Huff, Tarentum, Pa.**
**Application February 28, 1947, Serial No. 731,662**
**4 Claims. (Cl. 134—64)**



3. Apparatus including a series of metallurgical units for processing a continuous metal product advancing in lineal course through a metallurgical bath, said apparatus comprising a container for said bath, means for directing the product through a path of immersion in said bath comprising two rolls, two horizontally adjustable gantries for severally supporting said rolls substantially independently of said container and spaced apart a center-to-center distance greater than the length of the path of immersion required between the rolls to give the product advancing at a given speed the essential time of exposure to the metallurgical effect of the bath, bearings for rotatably mounting said rolls in said gantries, the bearings of one roll being vertically positioned in one gantry relatively to the bearings of the roll in the other gantry, to incline the line of advance of the product between the rolls, and means for vertically adjusting the bearings of one roll relatively to the bearings of the other roll to modify the inclination of the product advancing between the rolls, whereby for said given speed of advance the length of said path of immersion is modified and the time of exposure of the product to the effect of said bath is correspondingly regulated.

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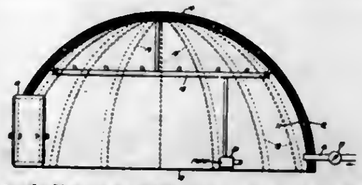
**2,649,100**
**DISHWASHING MACHINE**
**Walter Emil Frech, Lucerne, Switzerland**
**Application April 28, 1949, Serial No. 90,073**
**In Sweden December 2, 1948**
**2 Claims. (Cl. 134—125)**



1. In a dish-washing machine comprising a spraying device, a horizontal feed chain loop having a portion thereof adjacent said spraying device, polygonal carriages connected to the chain loop, and polygonal dish baskets, the combination therewith of means connecting each basket to a carriage, said means comprising clips on only two adjacent sides of the carriage for yieldingly embracing only two adjacent sides of the basket.

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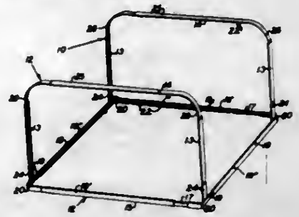
**2,649,101**
**DOUBLE-WALL PORTABLE SHELTER**
**Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application April 9, 1952, Serial No. 281,409**
**8 Claims. (Cl. 135—1)**



1. A shelter comprising a double-wall structure of non-rigid, foldable, gas-tight material, a blanket of insulating material between the two walls of said structure, means for inflating said structure, and means for evacuating the space between the two walls whereby atmospheric pressure against said walls compresses the blanket of insulating material thereby imparting rigidity to said structure.

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**2,649,102**
**BABY HUT**
**Ferdinal R. McDonough, Mansfield, Ohio**
**Application October 24, 1952, Serial No. 316,655**
**10 Claims. (Cl. 135—1)**



3. A portable, light-weight, knock-down, screened enclosure comprising a frame including a base frame formed of slidably telescoped frame sections, vertically extending corner posts removably attached to said base frame and screen supporting upper bow members removably connected to said corner posts, the base frame, corner posts and bow members being formed of light-weight channel members which are C-shaped in cross section and comprise male and female members slidable relative to each other.

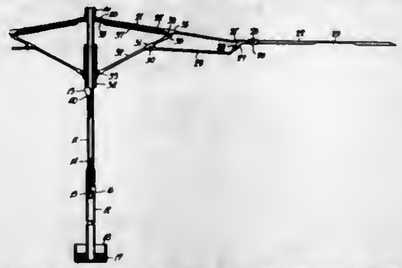
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**2,649,103**
**FOLDING UMBRELLA**
**Vincent Militano, Levittown, N. Y., assignor to The Finkel Umbrella Frame Company, Inc., New York, N. Y., a corporation of New York**
**Application February 6, 1951, Serial No. 209,586**
**4 Claims. (Cl. 135—25)**

1. A folding umbrella comprising, in combination; a rod; a crown member on one end of said rod; a runner slidably mounted on said rod; and



radiating folding rib structures, each of said rib structures comprising an inner rib having one end pivotally secured to said crown member, an outer rib having the other end of said inner rib pivotally secured thereto, said outer rib having a depending portion extending beyond and below the pivot between said inner and outer ribs when



the ribs are in alignment, a sleeve slidably mounted on said inner rib, a stretcher having one end pivoted to said runner and the other end pivoted to said slidable sleeve, a link connecting said stretcher with the said depending portion of said outer rib, and tension means tending to move said sleeve toward said crown member.

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**2,649,104**
**TILTABLE UMBRELLA**
**Vincent Militano, Levittown, N. Y., assignor to The Finkel Umbrella Frame Company, Inc., New York, N. Y., a corporation of New York**
**Application March 22, 1951, Serial No. 216,900**
**7 Claims. (Cl. 135—46)**



1. In a tiltable umbrella, in combination, a lower pole having a hollow upper portion provided with an opening, an upper pole having a tilt lever pivotally mounted in said hollow upper portion and arranged to be moved from a position in which the two poles are in vertical alignment to a position in which the upper pole is tilted relatively to the lower pole, said tilt lever moving in said opening to permit such tilting movement, a collar slidably mounted for movement longitudinally relative to said poles on said hollow upper portion and on the lower portion of said upper pole and arranged when in its lower position to cover said opening to maintain said poles in vertical alignment and also arranged to be moved longitudinally into position above said hollow upper portion to uncover said opening permitting tilting movement of said upper pole relative to said lower pole, and means on said collar arranged to engage the upper edge portion of the hollow upper portion of the lower pole when the upper pole is tilted relative to the lower pole to lock the two poles in tilted position.

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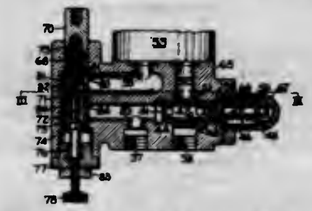
**2,649,105**
**SELF-DRAINING PIPE JOINT**
**William H. Stout and Emil S. Pearson, Portland, Oreg., assignors, by direct and mesne assignments, to Farmland Irrigation Company, Inc., a corporation of California**
**Application July 6, 1948, Serial No. 37,185**
**4 Claims. (Cl. 137—107)**



1. A pipe joint comprising a first pipe secured to a second pipe with an end of each in overlapped contactual relation, at least one channel cut in one of the interjacent surfaces of said pipes and at the lower side of the pipe said channel being open at its outer end to the atmosphere and open at its inner end to the internal space of the pipes, and a pressure responsive gasket carried eccentrically of the end of the inner pipe in contactual engagement with the upper portion of the adjacent surface of the other pipe and in progressively increased spaced relation with respect to said adjacent surface toward the lower portion thereof, said gasket being operative to close off the inner end of said channel from the internal space of said pipes under the action of a predetermined fluid pressure within the pipes.

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**2,649,106**
**HYDRAULIC CONTROL MEANS**
**Cecil E. Adams and Ellis H. Born, Columbus, Ohio, assignors to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio**
**Original application August 13, 1946, Serial No. 690,184, now Patent No. 2,546,579, dated March 27, 1951. Divided and this application November 2, 1949, Serial No. 125,142**
**12 Claims. (Cl. 137—115)**

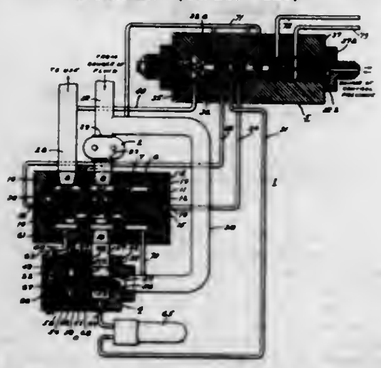


1. A flow control device comprising a body provided with a pair of passages extending therethrough and a third passage establishing communication between the passages of said pair; orifice-forming means in one of said passages; a valve element in said third passage, said valve element being yieldably biased toward a position to prevent communication between the passages of said pair and movable in opposite directions from such position to establish and

control such communication; and passage means for applying the pressures at opposite sides of said orifice to opposed portions of said valve element to effect its movement.

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**2,649,107**
**HYDRAULIC VALVE SYSTEM**
**Howard W. Avery, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application December 31, 1949, Serial No. 136,338**
**3 Claims. (Cl. 137—115)**

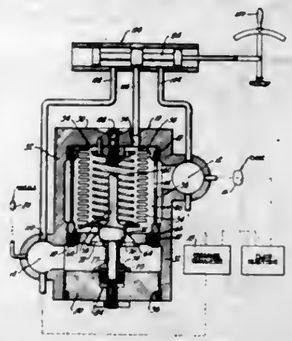


1. In a valve control system for fluid delivery apparatus for providing a volume of fluid delivery variable in accordance with a variable control pressure, a pilot valve connected to measure the fluid delivery pressure as an indication of fluid flow and connected to measure said variable control pressure and positionable in accordance with a predetermined desired function of said pressures, a throttle valve connected to said pilot valve for positioning thereby, said throttle valve having a fluid flow control orifice variable in accordance with the position thereof, a by-pass valve connected between the input and discharge fluid connections of said throttle valve and operable in response to the pressure drop thereacross, said bypass valve including a connection for bypassing a portion of the fluid at the input side of said throttle valve to maintain a constant pressure drop and a constant fluid flow through said throttle valve for any given position thereof regardless of variations in input and discharge fluid pressures.

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**2,649,108**
**PRESSURE ACTUATED THROTTLE VALVE**
**Stanley G. Best, Manchester, and David R. Pearl, West Hartford, Conn., assignors to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware**
**Application January 10, 1951, Serial No. 205,404**
**4 Claims. (Cl. 137—117)**

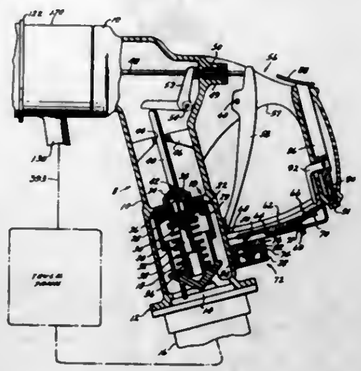
4. In a fluid throttling mechanism, a source of fluid under pressure, a valve having an intake side receiving fluid from said source and a discharge side communicating with a fluid consuming device, regulator means for maintaining the pressure on each side of said valve at a predetermined differential, means for varying the flow of fluid from one side of said valve to the other, comprising a movable valve element having a bellows operatively connected thereto, a valve member cooperating with said element forming a variable opening, fixed stops engageable with said movable valve element for limiting the range of said opening, means urging said element in one direction consisting of a spring, the force of said fluid under pressure acting externally of said bellows urging said element in the opposite direc-



tion, and control means for controlling the opening of said valve throughout said range consisting of a pilot valve for selectively exposing the inside of said bellows to the pressures on the inlet and outlet side of said first mentioned valve.

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**2,649,109**
**NOZZLE FOR FUEL SERVICING SYSTEM FOR AIRCRAFT**
**David Samiran, Fort Wayne, Ind.**
**Original application June 2, 1948, Serial No. 30,713. Divided and this application July 21, 1950, Serial No. 175,279**
**5 Claims. (Cl. 137—235)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

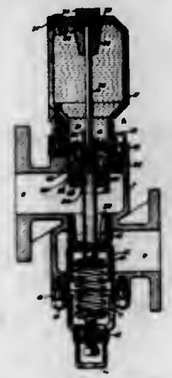


1. A refueling nozzle structure which comprises a body having an inlet end and a discharge end, its inlet end adapted for connection to a pressurized fuel supply tank and its discharge end adapted for quick connection or disconnection to or from a fuel intake fitting, a valve near the inlet end, a second valve at the extreme discharge end, a hand-grip trigger pivoted on said body, linkage connecting said trigger to said valves for opening both valves simultaneously, a latch for retaining said trigger in the valve-open position, manually operable means for releasing said latch, and pressure actuated automatic latch releasing means operative by an increase in pressure in said nozzle upstream of said second valve.



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**2,649,110**
**ART OF SEALING THE SEATING SURFACES OF VALVES AND SIMILAR DEVICES**
**Theodore W. Bergquist, Willow Grove, Pa.**
**Application December 17, 1948, Serial No. 65,756**
**13 Claims. (Cl. 137—246)**

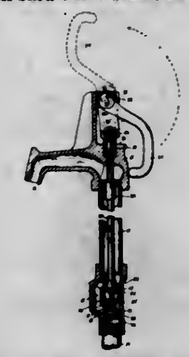


3. In valve mechanism for handling gases and vapors under pressure, a valve body having a valve seat, a main relief valve loaded against said pressure and having a metal-to-metal contact with said seat, a container for a liquid sealing medium associated with said body, an upstanding tubular member within said body normally in communication at its upper end with said container and having an opening at its lower end adjacent to the line of seating of said valve on the pressure side of the valve, said valve seat surrounding the lower end of the tubular member and cooperating with the main valve when closed to form an upstanding cup-like structure adapted to contain liquid sealing medium flowing from said container and the lower end of said tubular member terminating short of the upper face of the main valve, whereby the gas or vapor may enter into said container and sealing liquid may flow therefrom by gravity to form a sealing bath for the seat and cover said opening, and a check valve biased by loading means to maintain communication between the container and the tubular member and responsive to pressure in said container for shutting off flow from the container to the tubular member when the main valve is open and responsive to the loading imposed for re-establishing said communication between the container and the tubular member when the main valve is closed.

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**2,649,111**
**YARD HYDRANT**
**Noel M. Andersen, Des Moines, Iowa**
**Application July 16, 1949, Serial No. 105,180**
**5 Claims. (Cl. 137—304)**

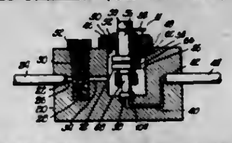
1. In combination with a nozzle head on a hydrant having a head chamber, a pair of spaced apart ears extending from said nozzle head above and spaced from said head chamber, and a valve stem slidably disposed in said chamber, an actuating means for said valve stem, comprising, a lever handle having one end pivotally eccentrically arranged between said ears in vertical alignment with said valve stem, and a rigid strap



member connecting said lever at its point of attachment to said ears to said valve stem.

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**2,649,112**
**AUTOMATIC RESET RESTRICTION VALVE**
**Harry Barnett, Glencoe, and Erwin Sabalius, Chicago, Ill., assignors to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois**
**Application April 2, 1945, Serial No. 586,124**
**13 Claims. (Cl. 137—555)**



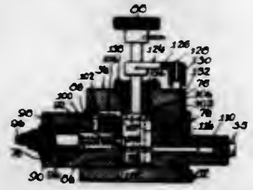
6. In a valve assembly, the combination of a housing having inlet means and outlet means, a valve body disposed in said housing, said valve body including a seat member and a movable head member having end abutting relation, an operating stem for said head member, selected lengths of capillary passages associated with said seat member, one of said capillary passages communicating with one of said first named means, said passages being disposed in series from said passage communicating with said one of said first named means, each of said lengths having an opening in the abutting end of said seat member, and means provided in the abutting end of said head member cooperating with any selected opening for establishing communication between one or more of said serially connected capillary passages and the other of said first named means whereby fluid from the inlet passes through a selected variable number of lengths of said capillary passages to said outlet.

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**2,649,113**
**PRESSURE SELECTOR VALVE**
**Frank G. Cisek, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**
**Application January 2, 1948, Serial No. 224**
**10 Claims. (Cl. 137—601)**

1. In a selector valve, a body with an internal cylindrical bore, a cylindrical stem slidably fitted within said bore in substantially fluid-tight engagement therewith and rotatable therewithin, an annular passage in said body around said bore

and connected thereto, said stem having a portion of reduced cross-section in the portion of said bore connected to said passage, a fluid passage extending axially through said stem and connected to said portion of said bore and to the portion thereof at the inner end of said stem, a plurality of spaced discharge ports in said body connected to said annular passage and to said bore, an inlet port in said body connected



to said annular passage, and valve means in each of said discharge ports for adjustably resisting flow of fluid from said bore, an annular groove in the periphery of said stem communicating with said inlet port, and another groove communicating with the first-mentioned groove and adapted to be selectively registered with the first-mentioned ports, one at a time, as said stem is rotated within said bore, and means for rotating said stem.

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**2,649,114**
**MAGNETIC PILOT VALVE**
**Robert A. Wittmann, Chicago, Ill.**
**Application October 8, 1949, Serial No. 120,387**
**12 Claims. (Cl. 137—638)**

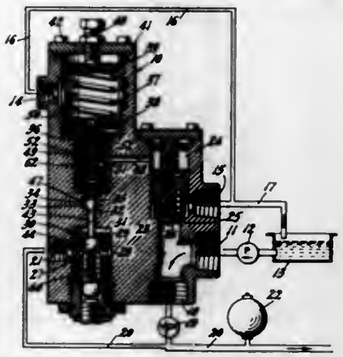


12. Means for controlling the flow of gas through a line, comprising, a permeable closure element in the line movable to upper and lower positions and in one position operable for closing the line, a magnet above said closure element and movable to upper and lower positions, an armature above said magnet, said armature being alternately permeable and non-permeable responsive to temperature changes, a second magnet above said armature, means to normally retain said second magnet spaced from said armature, and a thrust connection between said magnets to lower the first one as a resultant of lowering the second one against the bias of said means.

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**2,649,115**
**PRESSURE-RESPONSIVE MECHANISM**
**Clinton E. Dearderff, San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware**
**Application January 26, 1948, Serial No. 4,427**
**6 Claims. (Cl. 137—656)**

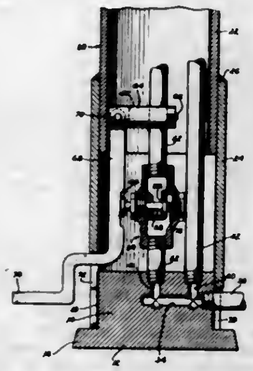
1. A pressure-actuated device comprising: means defining first and second pressure chambers interconnected by a passage; a first valve seat at the orifice of said passage in said first chamber and a second smaller valve seat at the orifice of said passage in said second chamber; poppet valve means comprising interconnected first and second poppets, said first poppet being in said first chamber and adapted to be urged against said first seat by pressure in said first chamber and said second poppet being in said second chamber and adapted to be urged away from said second seat by pressure in said first chamber, said poppet valve means being longer than the distance between said seats whereby only one of said poppets can seat at a time; a pressure-actuated slide member slidable between



two positions and having a pressure face exposed to pressure in said second chamber whereby fluid pressure in said second chamber urges the member in one direction; the area of said pressure face being intermediate the areas of said first and second seats; spring means urging said member in the other direction; said slide member and said poppet valve means being mechanically interrelated for unseating said first poppet and seating said second poppet in response to movement of said slide member in said other direction.

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**2,649,116**
**VALVE WITH FOOT ACTUATED CONTROL**
**Henry Anderson, Spencer, Iowa**
**Application August 20, 1949, Serial No. 111,470**
**1 Claim. (Cl. 137—751)**

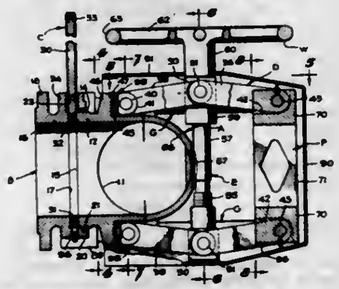


A foot actuated control for use with a valve interposed in a fluid conduit, said fluid conduit being disposed in a vertical position, which valve includes a housing interposed between the ends of a pair of segments of said conduit, a closure element normally biased to a closed position and a stem secured to said element and extending outside the valve housing; said foot actuated control comprising a mounting element secured to one segment of said conduit, a lever arm pivoted at one end on said mounting element, said lever arm engaging the extended end of said valve stem at a point intermediate the ends of said lever arm, a treadle extending from the other end of said lever arm in a direction transverse to the lever arm, and means for varying the point of securement of said mounting element along the length of said segment, whereby the height of the treadle is varied and whereby the mechanical advantage of the lever operated foot control may be varied.



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**2,649,117**
**PIPE LINE FITTING**
**Leland S. Hamer, Long Beach, Calif., assignor of one-fourth to Paul A. Dewhirst, Los Angeles, Calif.**
**Application August 30, 1946, Serial No. 694,020**
**22 Claims. (Cl. 138—94.3)**

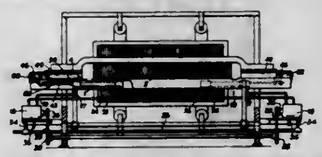


21. A flow handling fitting of the character described including; two relatively movable tubular flow handling sections, one a body section with an end portion with a clamp face and the other a clamp section with a head and with a part having a clamp face, said part slidably receiving said end portion of the body section, a flow controlling plate arranged between and adapted to be clamped by the clamp faces of said sections; and a toggle mechanism including links pivotally connected together, one of said links being pivotally connected to the body section and the other of said links being pivotally connected to the head of the clamp section, and a screw adapted to operate said links to move the sections relative to each other to clamp the plate between the said clamp faces.

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**2,649,118**
**LOOM PICKING MOTION**
**Barrie Heath, Barming, near Maidstone, England, assignor to Hobourn Aero Components Limited, Strood, Rochester, England, a British company**
**Application November 14, 1949, Serial No. 126,950**
**In Great Britain August 15, 1949**
**8 Claims. (Cl. 139—144)**

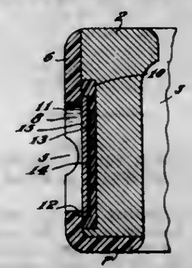
7. In a loom having a shaft continuously rotating synchronously with the swinging movements of the loom slay, the employment of a pneumatically-operated loom picking motion comprising two shuttle-driving units mounted one at each end of the loom race, each unit comprising a closed air cylinder, a piston slidable in said cylinder and a picker on that end of the rod of the piston which is outside said cylinder, said piston and cylinder co-operating to provide an air cushion for checking movement imparted to said picker by the incoming shuttle to bring it to rest in contact substantially with said picker when said piston is at the end of its shuttle-checking stroke and said cylinder having ports for the admission of air under pressure to move said piston therein in the shuttle-propelling direction, for the admission of air under pressure to return said piston toward the end of its



shuttle-propelling stroke and for providing a cushion of air to buffer the piston at the end of said shuttle-propelling stroke, valve means associated with said cylinder for controlling the admission thereto at appropriate times of air under pressure and for regulating the rate of flow of air to said cylinder for returning the piston to the outstroke position after its shuttle-propelling movement, in combination with rotary distributor valve means, one for each unit, both of said rotary distributor valves being connected to said continuously rotating shaft so that the shuttle driving strokes are effected in alternating sequence.

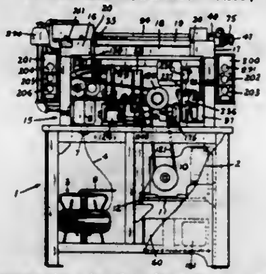
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**2,649,119**
**WEAVING SHUTTLE WITH THREAD-CUTTING ANVIL**
**Wilfrid J. Gosselin, Methuen, Mass., assignor to U S Bobbin & Shuttle Company, Lawrence, Mass., a corporation of Rhode Island**
**Application August 9, 1952, Serial No. 303,592**
**3 Claims. (Cl. 139—196)**



2. A weaving shuttle having a wooden body comprising spaced side walls defining a bobbin receiving chamber between them, one at least of said side walls having a facing ply of hard, dense, non-absorbent material, said ply having a longitudinally extending thread groove in its outer surface and having a horizontal elongate depression interrupting said groove and extending through the thickness of said facing ply, a second ply, also of hard, dense material, arranged to form a bottom wall for said depression, an anvil plate within the depression, and a permanently resilient ply of adhesive interposed between the plate and the bottom wall of the depression.

**2,649,120**
**MACHINE FOR BINDING BOOKS**
**Milton H. November, East Orange, N. J., assignor to Spiral Binding Company, Inc., New York, N. Y., a corporation of New York**
**Application July 2, 1948, Serial No. 36,693**
**27 Claims. (Cl. 140—92.7)**

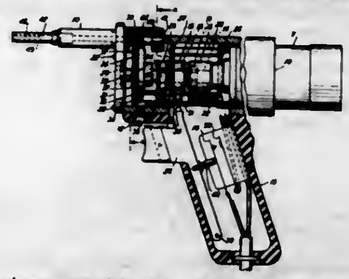


1. In apparatus for binding books with helical binders comprising a table arranged to receive a book provided with a row of apertures along the edge thereof to be bound, means for rearranging the pages of the book on the table so that the apertures thereof substantially conform in curvature to the coils of the helical binder and including a shaft, a plurality of book aligning fingers mounted on said shaft, means supporting said shaft for rotatable movement about its own axis, means to rotate said shaft, means for supporting said shaft for pivotal movement about an axis in advance of the central axis of said shaft means to cause said shaft to have a pivoting motion, means for clamping the thus arranged book to the table, means for feeding a helically shaped binder through the apertures of the clamped book, means for cutting to proper length the binder fed through the apertures of the book and for securing such cut binder in position on the book, and operating and control means to actuate said shaft, clamping means, binder feeding means, and binder cutting and securing means in timed relationship to one another, the combination with said rearranging means of means to progressively shift said shaft and aligning fingers in a longitudinal direction during the advancing and retracting pivoting movement of said shaft and during the advancement and retraction of said aligning fingers with relation to the book.

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**2,649,121**
**TOOL FOR EFFECTING SOLDERLESS CONNECTIONS BETWEEN A WIRE AND A TERMINAL**
**Frank Reck, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application March 19, 1948, Serial No. 15,834**
**2 Claims. (Cl. 140—122)**

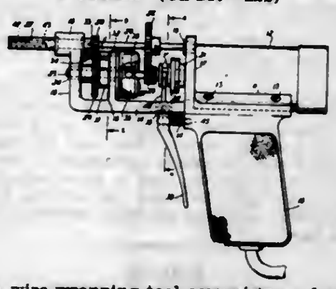
2. A wiring tool for effecting a wrapped electrical connection between a wire and a terminal, said tool comprising a motor, a cylindrically-shaped casing for said motor, a handle secured to said casing, a trigger member mounted for movement in said handle, a cover element secured to said casing at one end thereof, said element having a hub portion, a clutch member keyed on the armature shaft of said motor, a shaft disposed in coaxial relation to the armature shaft of said motor having its ends supported by said clutch member and said cover element, a clutch member slidably mounted on one end of said shaft in engageable relation with the first-mentioned clutch member, a gear keyed on the opposite end of said shaft and having a recess in the surface thereof towards said motor, a spindle mounted for rotation in said hub portion having, adjacent one end, a pinion meshing with said gear and at the other end terminal and wire engaging orifices, a support mounted in said casing, a rod mounted for sliding movement on said support, means carried by said rod engaging means mounted on said shaft for moving the second-mentioned clutch member in engaged relation with the first-mentioned clutch member by the operation of



said trigger member for rotating said spindle to wrap a wire on a terminal upon the operation of said motor, a roller carried by said rod resting in said recess, when said clutch members are disengaged, for holding the spindle in a starting position, and rolling on the surface of said gear when said clutch members are engaged, and a normally open contact in said handle operable by the operation of said trigger member following the engagement of said clutch members for controlling the operation of said motor.

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**2,649,122**
**MOTOR-DRIVEN HAND TOOL FOR MAKING WRAPPED WIRE CONNECTIONS**
**Rudolph F. Mallina, Hastings on Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application March 19, 1948, Serial No. 15,838**
**5 Claims. (Cl. 140—122)**



5. A wire wrapping tool comprising a frame, a motor, and energy storage means, a gear train interconnecting the motor and the storage means through a normally engaged clutch for biasing the storage means to an energy storing condition, pin and stop means mounted respectively on an element of the gear train and on the frame, for limiting the energy stored in the storage means, a wire wrapping spindle including a wire receiving slot adjacent to its outer extremity, the spindle being connected to the energy storage means through a portion of the gear train including the element on which the pin is mounted, said pin and stop thereby determining the location of the wire receiving slot with respect to the frame, and means for optionally disengaging the clutch to allow the energy storage means to supply power to the spindle for a wire wrapping operation.

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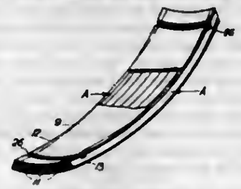
**2,649,123**
**REMOVABLE CLAMP SHOE WITH TILTABLE WORK ENGAGING ELEMENT**
**Donald A. Gulland, Detroit, Mich.**
**Application January 20, 1948, Serial No. 3,320**
**3 Claims. (Cl. 144—304)**



1. As a separate article of manufacture, a universal pressure shoe adapted to be detachably connected to devices including pressure screws, said shoe including a pressure screw engaging member comprising a body having a cylindrical recess threaded to engage a pressure screw and a flat bottom adapted to be contacted by the end of the pressure screw to receive and transmit pressure forces, nut flats provided on said body, and a part-sphere provided on the end of said body adjacent the bottom of said recess; and a work-engaging member comprising a cup-shaped body having a depressed conical bottom adapted to be engaged by said part-sphere and connected to said pressure screw engaging member.

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**2,649,124**
**MANUFACTURE OF BARRELS AND THE LIKE**
**Arthur Cyril Merron, Twickenham, England**
**Application August 25, 1949, Serial No. 112,301**
**In Great Britain August 30, 1948**
**5 Claims. (Cl. 144—309)**

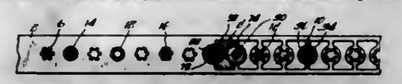


1. A method of producing bodies of compound curvature which comprises assembling a plurality of substantially straight wooden strips laterally coated with adhesive in lateral juxtaposition, and curving the assembly both longitudinally and transversely by pressure applied normal to its plane whilst applying pressure laterally to the strips at the line or lines where the assembly has the greatest tendency to spread under the resistance of the strips to lateral bending thereby pressing the strips into lateral contact over their whole lengths, and maintaining these pressures until the adhesive has set.

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**2,649,125**
**WASHER STRIP AND METHOD AND APPARATUS FOR PRODUCING SAME**
**Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois**
**Application December 11, 1948, Serial No. 64,876**
**15 Claims. (Cl. 151—35)**

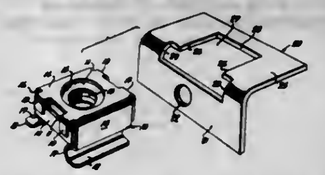
1. A method of making washers comprising feeding a strip of washer stock longitudinally, removing from predeterminedly spaced areas of the strip pieces of material to form the washer openings, thereafter holding the washer portions against deformation and removing from said strip between said openings other discrete pieces of material of a width less than the width of the strip stock and shaped to form substantially half



the external outlines of adjacent washers formed by said openings and the opposite sides of connecting areas of limited size joining each washer to a common band of strip stock left by the removal of said discrete pieces of less width than the stock, and scoring the completed outlines of the washers across the tabs.

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**2,649,126**
**CAGED NUT AND RETAINING BRACKET THEREFOR**
**George A. Tinnerman, Cleveland, Ohio, assignor to Tinnerman Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application October 14, 1949, Serial No. 121,429**
**1 Claim. (Cl. 151—41.76)**



A fastening device comprising a bracket having a pair of flanges in angular relation comprising an attaching flange and a nut carrying flange, said flanges being provided with a cutout defining a recess having an open end adjacent the junction of said flanges and a pair of spaced shoulders on said nut carrying flange, a nut, and a holder for said nut, said nut holder comprising a sheet metal body bent to define a base overlying the nut, means on the sides of said base engaging the sides of the nut, arms extending from the ends of said base in the same general direction and engaging the ends of said nut such that inward flexing of said arms is prevented, said arms being bent inwardly under the nut and then outwardly to provide a pair of groove elements receiving said spaced shoulders on said nut carrying flange, said groove elements terminating in outwardly extending hooks underlying said spaced shoulders and preventing disconnection of said groove elements from said spaced shoulders in a direction axially of said nut, said attaching flange extending from adjacent said open end of said recess in the nut carrying flange and being adapted for attachment to a wall in a manner whereby said wall extends across and closes said open end of said recess to retain said nut holder in assembled relation in said recess in the attached position of the fastening device.

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**2,649,127**
**TOOL FOR MAKING JOINTS IN LEAD PIPE**
**James Lake, Jr., Brooklyn, N. Y.**
**Application September 11, 1951, Serial No. 246,944**
**2 Claims. (Cl. 153—24)**

1. A tool for drawing out a flange around an opening in a lead pipe, comprising a base ring

concaved to fit the curvature of the pipe, said base ring having a flange drawing lip about the open center portion of the same and an outstanding support arched over the open center portion, a pull screw having a thrust bearing against said arched support and a flange draw-



ing cone having screw connection with said pull screw, said pull screw having a bore therethrough and a wire caught to said cone and extending therefrom up through said bore and accessible at the outer end of the screw for pulling the cone into engaged relation over the inner end of the screw.

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**2,649,128**
**MEANS AND METHOD OF COLD BENDING SHEET METAL**
**Alvin L. Schoellerman, Los Angeles, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California**
**Application February 24, 1948, Serial No. 10,445**
**2 Claims. (Cl. 153—48)**



1. In a power brake for cold bending a metal sheet of 75 Stal, and other materials having substantially the same bending, tearing, and rupturing characteristics as 75 Stal, into a curve of the maximum order of 90° and having a true radius of the order of 2.5 to 4 times the thickness of the sheet, the combination comprising: a punch having an end area initially engageable with a sheet to be bent and side areas extending laterally from said end area and subsequently engageable with the sheet, said side areas being curved about a common center to a true radius equal to the desired true radius of the bend to be effected and said end area having a radius ranging from 1⅛ times said true radius to infinity and a chordal width of

$$\frac{106}{125}$$

times said true radius plus or minus 1.5%; a pair of sheet supports providing parallel fulcrums spaced a greater distance apart than the major width of said punch between said side areas plus twice the thickness of the sheet; and means for forcing said punch against a sheet bridged across said supports to bend the sheet around said side areas by contact of the sheet solely with said fulcrums and said punch.

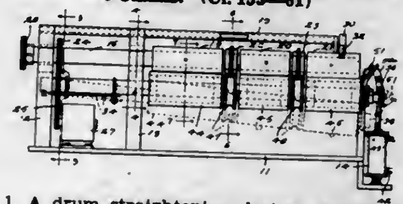
2. The method of cold bending a metal sheet of 75 Stal, and other materials having substantially the same bending, tearing, and rupturing characteristics as 75 Stal, into a curve of the maximum order of 90° and having a true radius of the order of 2.5 to 4 times the thickness of the sheet, the step comprising: supporting the sheet on parallel fulcrums spaced apart a distance greater than twice the desired true radius of the bend to be effected plus twice the thickness of the sheet and forcing a punch against the sheet between said fulcrums to bend the sheet by contact solely with said fulcrums and said punch, said punch having an end area initially engageable with the sheet and side areas extending laterally from said end area and subsequently engageable with the sheet, said side areas being curved about a common center to said true radius and said end area having a radius ranging from 1⅛ times said true radius to infinity and a chordal width of

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times said true radius plus or minus 1.5%.

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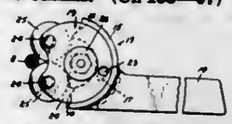
**2,649,129**
**MACHINE FOR STRAIGHTENING METAL DRUMS**
**Eugene A. Schlank, Cincinnati, Ohio**
**Application August 27, 1951, Serial No. 243,798**
**3 Claims. (Cl. 153—61)**



1. A drum straightening device comprising a base, a pair of upright frame members carried by said base adjacent the rear thereof, a pair of shafts rotatably carried by said frame members and disposed in parallel relation with respect to said base, rollers fixed on said shafts, a second pair of shafts disposed below said first pair of shafts, means rockably supporting one end of said second pair of shafts from said frame members, rollers rotatably carried by said second pair of shafts, a chime engaging roller rockably carried by said base between said second pair of shafts, means engaging the forward ends of said second pair of shafts for moving said second pair of shafts toward or away from said first pair of shafts, and means connected with said last-mentioned means for rocking said chime roller to operative position with rocking of said second pair of shafts to operative position.

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**2,649,130**
**COIL SPRING WINDER**
**Lester A. Border, Pendleton, Oreg.**
**Application March 9, 1951, Serial No. 214,760**
**2 Claims. (Cl. 153—67)**



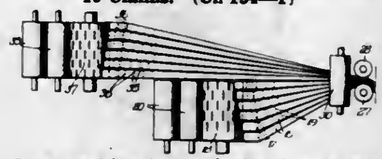
1. A coil winding machine including in combination a rotary winding mandrel, a tool holder mounted to travel in a path parallel with the mandrel, and a mandrel engaging and wire guiding device carried by the tool holder and embodying a shank engaging the tool holder and provided with an arcuate saddle facing the mandrel and having a central flange, a head formed of side plates arranged on opposite sides of the flange and a hub arranged in advance of the flange, means pivotally connecting the side plates with the flange to permit the head to have limited



tilting movement in a vertical plane, rollers carried by the head to engage and rotate against and slide along the mandrel in a coil winding operation, a wire guide and tensioning member arranged alongside the head, and means connecting said member with the plates and hub and pivoting said member to the head.

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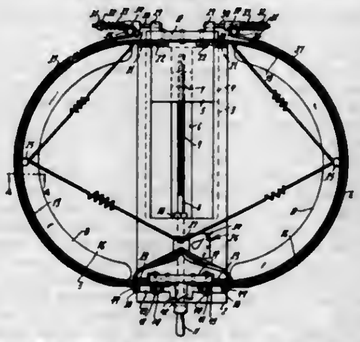
**2,649,131**
**MACHINE AND METHOD FOR PRODUCING CONTINUOUS HONEYCOMB STRUCTURES**
**John D. Lincoln, Marion, Va.**
**Application March 27, 1948, Serial No. 17,534**
**19 Claims. (Cl. 154—1)**



1. In a machine for producing from a web of thin flexible material a relatively thick honeycomb structure in continuous ribbon-like form, means for continuously feeding the web of material along a predetermined path, means for separating the web into a plurality of relatively narrow individual strips extending lengthwise of the web, means for applying transverse lines of adhesive in longitudinally staggered relation on corresponding faces of adjacent strips, means for individually tensioning the respective strips and automatically adjusting the length of the path of movement of the same, means for turning the strips into edgewise relation, means to bring the strips together into face-to-face contact to thereby form a relatively thick compacted formation, means for maintaining the strips in compacted relation while the adhesive is set to connect the adjacent strips, and means for gradually expanding the connected strips to form a honeycomb structure which is adapted to be thereafter provided with a rigidifying material while it is maintained in expanded condition, all of said means being arranged along said path of movement of the material and being connected for operation in timed relation to the movement of the material.

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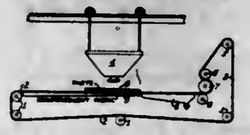
**2,649,132**
**BRAKE SHOE BONDING MACHINE**
**Harry B. Barrett, St. Louis, Mo.**
**Application August 28, 1950, Serial No. 181,785**
**9 Claims. (Cl. 154—1)**



1. A brake shoe relining machine comprising a base, oppositely curved pairs of flexible arcuate members adjustably mounted upon the base, means operatively engaged with said pairs of arcuate members for simultaneously flexing said members into various different arcs within predetermined limits, and flexible heating elements disposed snugly against the concave faces of each of the arcuate members.

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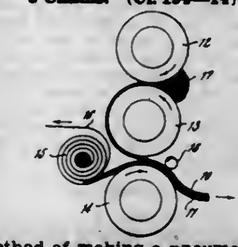
**2,649,133**
**METHOD AND DEVICE FOR PRODUCING HIGH-PRESSURE TUBES OF HARDENING MATERIALS AS CEMENT**
**Konrad Just, Salzburg, Austria, assignor to Himanit Aktiengesellschaft, Vaduz, Liechtenstein, a firm**
**Application February 28, 1948, Serial No. 11,928**
**In Germany August 5, 1940**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires August 5, 1960**
**7 Claims. (Cl. 154—1.3)**



1. A method of producing high-pressure tubes from hardening materials, which comprises pouring the material to form a layer of adequate thickness in amorphous plastic state to a conveyor belt, winding the material around a core by means of the belt exerting a pressure on the material, feeding of a piece of fabric to the conveyor belt, winding the piece of fabric around the tube produced by winding the material around the core, the piece of fabric having a length to encircle the tube at least once, and tightly rolling the tube along with the piece of fabric.

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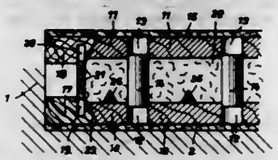
**2,649,134**
**METHOD OF MAKING PNEUMATIC TIRES**
**William A. Steinle, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**Application January 23, 1951, Serial No. 207,300**
**5 Claims. (Cl. 154—14)**



5. A method of making a pneumatic tire comprising the steps of forming a thin layer of ozone-resistant and weather-resistant vulcanizable stock, forming a thin layer of vulcanizable under-sidewall stock, firmly bonding the said layer of vulcanizable ozone-resistant and weather-resistant stock directly to the surface of the said layer of vulcanizable under-sidewall stock by simultaneous application of heat and pressure to the said vulcanizable layers, the surface of the said ozone-resistant and weather-resistant layer being in direct, intimate contact with the surface of the under-sidewall layer, providing a raw tire carcass, subsequently applying the thus-assembled vulcanizable ozone-resistant and weather-resist-

ant layer and under-sidewall layer to the raw tire carcass with the under-surface of the said under-sidewall layer in contact with the sidewall area of the said raw tire carcass and the said ozone-resistant and weather-resistant layer forming the outer surface of the tire sidewall to provide a protective veneer thereon, and subsequently vulcanizing the entire assembly in tire shape.

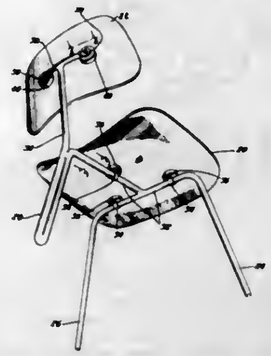
**2,649,135**
**PROCESS FOR THE PRODUCTION OF INSULATING PANELS, DOOR PANELS, FURNITURE BOARD OR THE LIKE**
**Werner Prase, Stuttgart, Germany**
**Application October 28, 1950, Serial No. 192,656**
**In Germany October 29, 1949**
**7 Claims. (Cl. 154—28)**



1. A process for the manufacture of a panel member having filler material sandwiched between the panel faces and bounded by the panel edges, said process comprising the steps of spreading adhesive onto the inner surface of a panel facing member and adjacent the edges thereof, then placing panel edge strips along said edges and against said adhesive-covered surface, each of said panel edge strips having an inclined face facing toward the interior of the panel member and also having a groove extending lengthwise of said edge strip substantially perpendicular to said inner surface having adhesive thereon, then placing a key strip at the mouth of each of said grooves, each key strip and associated panel edge strip together providing a wall along the edge of the panel facing member with which they are associated, then placing compressible filler material in the space bounded by said walls, spreading adhesive adjacent the edges of a second panel facing member, then placing the surface of said second panel facing member having the adhesive thereon against each key strip, and then pressing said second panel facing member toward the first-mentioned panel facing member to compress the filler material therebetween and simultaneously force each key strip into the groove of the panel edge strip with which said key strip is associated, the inclined faces on said panel edge strips urging the filler material toward the interior of the panel member.

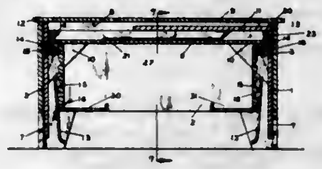
**2,649,136**
**FURNITURE SHOCK MOUNT CONSTRUCTION**
**Charles Eames, West Los Angeles, Calif., assignor, by mesne assignments, to Herman Miller Furniture Company, Zeeland, Mich., a corporation of Michigan**
**Application March 1, 1947, Serial No. 731,817**
**10 Claims. (Cl. 155—54)**

1. In a chair-like construction of the character described, a relatively thin plywood panel of curved sectional contour shaped to present surfaces approximating body contours of a seated person, yieldable, mounting means secured to a portion of the surface of one side of said panel and including a rubber-like block, a veneer having one surface bonded to said block and its opposite surface bonded to the panel, said veneer having expansion characteristics of the same order as said panel and being bonded to one side of the rubber-like block by cement requiring heat application and to said panel by cement requiring no heat application, a metal element capable of withstanding high localized stresses bonded



to the opposite side of said rubber-like block, and a metal holding means integral with said metal element, the areas of and the strengths of the bonds between said panel, veneer, rubber-like block and element being sufficient at least to equal the strength of the panel in resisting bending beyond its elastic limit.

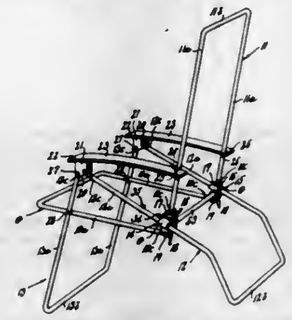
**2,649,137**
**COMBINATION IRONING BOARD AND BENCH**
**John F. Roberts, Portland, Oreg., assignor of one-half to F. K. Schneider, Newport, Oreg.**
**Application July 21, 1951, Serial No. 237,961**
**1 Claim. (Cl. 155—88)**



A bench, comprising a hollow base open at the front, vertically disposed, spaced-apart cross-members extending from the front wall to the rear wall of the base, the cross-members being spaced from the end walls of the base, and having a series of teeth on their outer surfaces, a telescopic upper portion including a top and depending leg panels which fit in the hollow base between the end walls thereof and the cross-members, wire frames pivotally mounted on the inside of the depending leg panels of the upper portion, the upper ends of the frames having bent portions to form handles, the handles extending through openings formed in the depending leg panels of the upper portion, the lower ends of the wire frames engaging the teeth on the cross-members to adjustably support the upper portion, and springs between the wire frames and the depending leg panels of the upper portion to normally swing the lower ends of the wire frames in direction of the teeth.

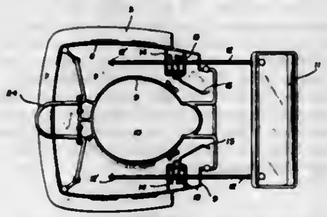


**2,649,138**
**FOLDING CHAIR**
**Morton D. Rechler, New York, N. Y., assignor to Rexart Metal Industries, Inc., New York, N. Y., a corporation of New York**
**Application November 2, 1948, Serial No. 57,881**
**1 Claim. (Cl. 155—117)**



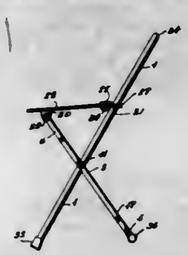
A two position folding chair comprising arm rests, a front leg frame and a rear leg frame pivoted at their upper ends to the front portions of said armrests, said rear leg frame including side rails, links slidably mounted on said side rails, a seat frame provided with rearwardly extending ends pivoted to said links, a back frame pivoted at its lower ends to said links, pivotal connections between said seat frame and said front leg frame, pivotal connections between said back frame and the rear portions of said armrests, a spring pressed element carried by one of said side rails and constituting an abutment against the associated link when the back frame is in one of its positions of use, said element being depressible to allow the link to slide thereover and into engagement with a second abutment carried by the rail, said seat frame, back frame, front leg frame, rear leg frame and armrests moving in unison to their new positions when said links slide on the side rails toward their different positions, said chair being brought to folded condition by moving said links rearwardly along said rails away from the abutments.

**2,649,139**
**CHILD'S AUXILIARY SEAT ATTACHMENT**
**Arthur E. Singleton, Fort Wayne, Ind., assignor to The Toidey Company, Gertrude A. Muller, Inc., a corporation of Indiana**
**Application October 16, 1947, Serial No. 780,171**
**7 Claims. (Cl. 155—131)**



1. An infant's toilet seat comprising a substantially flat base having spaced lateral sides, a pair of spaced guide flanges supported by said base on each of said sides and having aligned openings therethrough, two parallel extending rods carried by said base, a foot-rest carried on the common ends of said rods, each rod reciprocably received by the openings of a respective pair of said flanges, two locking levers supported between each pair of spaced flanges and having openings through which the respective rod is received, a spring surrounding each rod between the respective levers tending to urge the levers apart, a fulcrum provided on one of each pair of flanges and engageable by one of each pair of levers whereby each spring will urge each said one lever into locking engagement with the respective rod, and two operating portions of the other levers extending inwardly from said base sides and conjointly operable to engage and pivot said one of each pair of levers about the respective fulcrums to compress said springs and unlock said rods for movement with respect to said base.

**2,649,140**
**FOLDING SEAT**
**William E. Housel, Fort Lauderdale, Fla., assignor to Aluminum Products, Inc., Fort Lauderdale, Fla., a corporation of Florida**
**Application April 19, 1950, Serial No. 156,799**
**2 Claims. (Cl. 155—143)**



1. A folding seat comprising a central leg member, a ring slidably encircling said central leg member, a seat pivotally mounted to said ring, a bracket secured beneath the forward section of said seat, a pair of parallel projections extending from each end of said bracket, a pair of leg members, means pivotally mounting each of said pair of leg members between different pairs of said parallel projections, said pivotally mounted leg members having inwardly turned sections diametrically opposed said central leg member and substantially adjacent thereto, means pivotally mounting all of the aforementioned leg members in substantially adjacent relationship, a spacer bolt, shoulders on said spacer bolt, apertures in said pivotally mounted pair of leg members to receive said spacer bolt permitting the ends thereof to pass through said leg members and the shoulders to abut against said leg members, said shoulders and said leg members being so constructed and arranged to provide substantially full abutting faces, and nuts threadedly engaging the ends of said spacer bolt to rigidly secure said leg members in spaced relationship.

**2,649,141**
**COLLAPSIBLE FURNITURE**
**Oren B. Marshall and Branard F. Adams, Kansas City, Mo.**
**Application March 19, 1951, Serial No. 216,376**
**2 Claims. (Cl. 155—143)**

1. A collapsible article of furniture comprising a normally horizontal panel; a number of elongated, parallel strips depending from said panel, each having a longitudinally extending slot

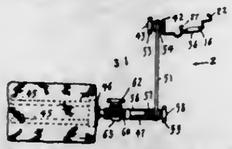
formed therein; two pairs of crossed legs, the legs of each pair being pivotally joined at the point of crossing thereof; a first cross-bar pivotally securing one leg of each pair thereof to



said strips; and a second cross-bar joining the other leg of each pair thereof and slidable in said slots, said cross-bars being parallel, said slots each converging with said panel as one end of the slots is approached.

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**2,649,142**
**HEADREST APPLIANCE**
**Leo New, Muncie, Ind.**
**Application October 22, 1951, Serial No. 252,458**
**4 Claims. (Cl. 155—177)**

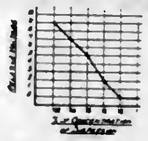


1. An appliance applicable to the drain molding and lintel portion of an automobile door casement, comprising a thin flat body plate having, at a predetermined distance from the inboard end thereof, an upright bend, thence a horizontal bend, thence an upward and inturned bend to engage said drain molding, a thin flat shank plate positioned beneath the inboard portion of said body plate and embodying an upturned lug at its inboard end to engage the inner edge of said lintel, means loosely interconnecting said body plate and said shank plate to permit moving one upon the other, said means being manually operable to fasten them in united relation when they are adjusted to tightened engagement with said molding and lintel, a supporter arm directed inwardly from said lintel, and means to fasten it to the underside of the shank plate.

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**2,649,143**
**ASTATIC MATERIAL**
**Simon A. Simon, Longmeadow, and Arthur H. Drelich, Springfield, Mass., assignors, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass., a corporation of Massachusetts**
**Application June 4, 1949, Serial No. 97,301**
**In Canada June 4, 1948**
**4 Claims. (Cl. 155—182)**

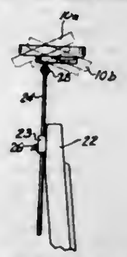
1. In a seat, the combination of means for supporting a person and a cover of a non-cellulosic synthetic long-chain polymer for the supporting means, the cover being treated and covered with an antistatic agent selected from the class consisting of long chain fatty acid partial esters and poly-oxy-alkylene ethers of long chain fatty acid partial esters of a compound selected from the group consisting of aliphatic poly-hydroxy alcohols having from two to six carbon atoms and from two to six hydroxyl groups, monomeric cyclic ethers of aliphatic poly-hydroxy alcohols having from two to six carbon atoms and from two to six hydroxyl groups, and polymeric ethers



having at least two hydroxyl groups which are condensation products of aliphatic poly-hydroxy alcohols having from two to six carbon atoms and from two to six hydroxyl groups; whereby it is substantially incapable of generating, inducing, and accumulating objectionable electrostatic charges; the antistatic agent being resistant to separation from the cover by scrubbing in water.

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**2,649,144**
**BEAUTICIAN'S UTILITY TRAY**
**Nettie M. Stephens, Lima, Mont.**
**Application August 22, 1949, Serial No. 111,747**
**2 Claims. (Cl. 155—188)**



1. A utility tray comprising a tray proper having two relatively extensive article-supporting areas; a constricted neck portion joining said article-supporting areas to each other, said neck portion having oppositely configurated, spaced, front and rear arcuate boundaries, thereby defining respective front and rear exterior bays symmetrically disposed on both sides of the longitudinal center line of said tray, said front and rear bays, further, extending from one of said areas to the other, along said constricted neck portion; an arcuate guide following the configuration of said front arcuate boundary intermediate said front and rear bays, the center of the arc of said arcuate guide lying in a radial line joining the centers of the said front and rear arcuate boundaries to each other; a fixed arcuate slide engaged by said arcuate guide; and means secured to said slide adapted to secure the tray to the back of a chair, said arcuate guide being fixed on the bottom of said tray proper and being instrumental in centering a person's head in said front arcuate boundary and, at the same time, in centering the working position of an operator in said rear arcuate boundary.

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**2,649,145**
**SAFETY HARNESS FOR AUTOMOBILES**
**Laurence O. McCarthy, Lakewood, Colo.**
**Application August 14, 1952, Serial No. 304,322**
**5 Claims. (Cl. 155—189)**

1. A passenger shock-absorbing device for automotive vehicles comprising: a fixed cylinder tube; a plunger tube slidably mounted in and projecting from said cylinder tube; spring means urging said plunger tube from said cylinder tube; a closed outer end in said plunger tube; an air port in the outer end of said cylinder tube; a hollow, semispherical extremity on said fixed tube in which said port is positioned; a



freely floating ball in said extremity positioned to move against and close said port in consequence of the movement of air toward said port; a strap affixed at its one extremity to said fixed cylinder tube and passing about the closed outer end of said plunger tube to urge the latter into said fixed tube; and means for attaching said strap to a passenger.

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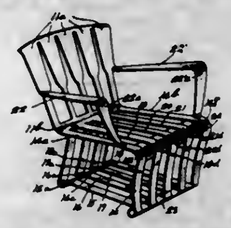
**2,649,146**
**BARREL CHAIR**
**Roy S. Sanford, Woodbury, and Paul F. Simpson, Washington, Conn.**
**Application November 28, 1947, Serial No. 788,352**
**10 Claims. (Cl. 155—191)**



7. A chair having side and back portions integrally formed from a single piece of sheet material of substantially U-shaped configuration about a substantially vertical axis and having continuous upper and lower edge portions, leg members struck out from a central area of said sheet material and extending downwardly in a substantially vertical direction from said lower edge portion, a plurality of spaced strips also struck out from a central area of said sheet material forming a plurality of spaced apertures in said side and back portions terminating adjacent said continuous upper and lower edge portions, said strips being integral with said sheet adjacent said lower edge portion and extending inwardly therefrom toward each other, said strips being secured together at their free inner ends to form a seat for said chair.



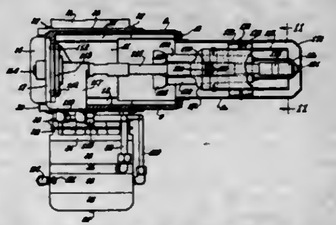
**2,649,147**
**METAL CHAIR**
**Roy S. Sanford, Woodbury, Conn., assignor to Sanford Products, Inc., Woodbury, Conn., a corporation of Delaware**
**Application November 28, 1947, Serial No. 788,353**
**21 Claims. (Cl. 155—194)**



14. A chair formed from a single piece of sheet material comprising a back portion, a seat and front leg portion constituting an integral extension of the lower edge of said back portion, a rear leg and bottom reinforcing portion struck out from said seat and front leg portion also constituting an extension of the lower edge of said back portion, side arm portions struck upwardly from the marginal edges of said seat portion and secured to said back portion at their rearward ends, and rear leg reinforcing means struck out from the seat and front leg portion and bent downwardly and secured to said rear leg and bottom reinforcing portion.

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**2,649,148**
**AIR-ATOMIZING OIL BURNER**
**Harry F. Tapp, Longmeadow, and Richard M. Cochrane, West Springfield, Mass., assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts**
**Application September 2, 1950, Serial No. 182,952**
**3 Claims. (Cl. 158—76)**

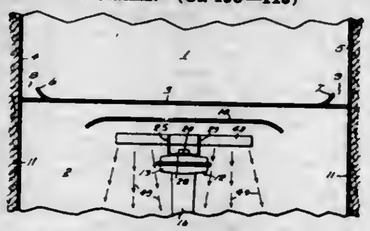


1. In an oil burner, a fan housing, an open-ended tube having its inlet end connected to the housing and providing a passage for combustion-supporting air, said housing having a chamber continuous with said passage and in alignment therewith, a first fuel conduit extending longitudinally in said chamber and passage, a fuel nozzle on one end of said conduit and located in said passage near the outlet end thereof, a support to position the outlet end of the conduit in said tube, said chamber having a relatively large opening in its end wall of sufficient size to enable axial withdrawal of said conduit and nozzle and a relatively small slot in its end wall extending from said opening outwardly through said end wall and having in a side wall a continuation of said slot extending inwardly from said end wall, a closure for said opening fixed to the other end of said conduit, said closure having a lateral extension entering into and filling said slot and the

continuation thereof, said extension having a fuel passage connected to said conduit and extending to the outer face of said extension, and a second fuel conduit connected to the outer end of said fuel passage and including a union, whereby on severance of the second fuel conduit at said union, the said closure and its extension may be respectively removed from said opening, slot and the continuation thereof, and the first fuel conduit and nozzle may be withdrawn from the air passage and chamber.

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**2,649,149**
**GAS-FUELED BROILER BURNER FOR COOKING RANGES**
**Charles M. Mayer, Mansfield, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio**
**Application December 11, 1950, Serial No. 200,202**
**4 Claims. (Cl. 158—113)**



1. In a device of the character described which is adapted to be removably secured to a gaseous fuel burner, the combination of a front support, a rear support spaced from said front support, each of said supports including a pair of spaced parallel upwardly extending side members, a pair of opposed notches in each of said supports, one of said notches extending downwardly from the upper edge of one of said side members and the other of said notches extending downwardly from the upper edge of the other of said side members, a pair of spaced parallel clamping strips extending between said supports and rigidly secured to the side members of said supports, a pair of spaced parallel transversely extending end strips, one of said end strips being seated in the opposed notches in the side members of said front support and the other of said end strips being seated in the opposed notches in the side members of said rear support, a second pair of clamping strips, one of said second pair of clamping strips being rigidly secured to the opposing ends of said end strips on one side of and in spaced parallel relation to said first pair of clamping strips, the other of said second pair of clamping strips being rigidly secured to the opposing ends of said end strips on the other side of and in spaced parallel relation to said first pair of clamping strips, and a pair of wire mesh screens carried by said clamping strips one on each side of said supports.

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**2,649,150**
**FOLDING DOOR CONSTRUCTION**
**Frank J. Hoke and Ralph W. Reynolds, Indianapolis, Ind., assignors to Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Ind., a corporation**
**Application November 27, 1950, Serial No. 197,776**
**4 Claims. (Cl. 160—35)**

1. In a flexible closure adapted to be extended and contracted, a lazy tong comprising a series of tong bars hingedly connected to each other at their adjacent ends and a series of depending fabric supporting tong plates hingedly connected to each other at their adjacent ends, said plates being spaced below said bars to prevent interference with the movement of said bars by the fabric supported by said plates, a hanger pin pivotally supporting said plates from said bars midway between their respective ends, a series of hingedly connected lower plates corresponding to and spaced below said tong plates paired therewith to lie in the same vertical planes respec-



tively, a common hinge rod extending from the hinge connection of each adjacent tong plate to the hinge connection of each adjacent paired and spaced lower plate, each of said rods being rigidly secured to one tong plate and its paired lower plate to maintain their planetary relation as said closure is extended and contracted, and a fabric covering removably secured over opposite sides of said plates to extend over the space between the tong plates and their paired lower plates.

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**2,649,151**
**VENETIAN BLIND**
**Brooks Walker, Piedmont, Calif.**
**Application April 26, 1948, Serial No. 23,153**
**7 Claims. (Cl. 160—178)**

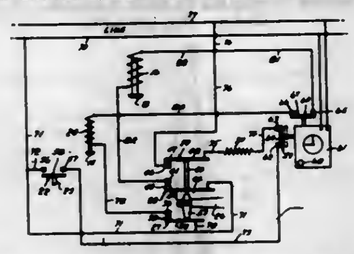


1. In a Venetian blind, a top tilt rail, a bottom rail, ladder tapes disposed between and connected to said rails, and slats supported on the cross rungs of said ladder tapes; the improvement wherein one of said rails comprises a pair of arched slat members having their concave faces disposed toward and spaced from each other and with their corresponding edges in engagement, a reenforcing member disposed between the slat members intermediate said edges and extending longitudinally within the rail, and a clip member extending across the outer face of at least one of said slat members and engaged about said edges for holding same in engagement and with the central body portions of the slat members firmly engaged with said reenforcing member.

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**2,649,152**
**AUTOMATIC IGNITION AND CONTROL MECHANISM FOR GAS BURNERS**
**Charles M. Mayer and Samuel T. Craig, Mansfield, Ohio, assignors to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio**
**Application June 29, 1950, Serial No. 171,190**
**13 Claims. (Cl. 161—9)**

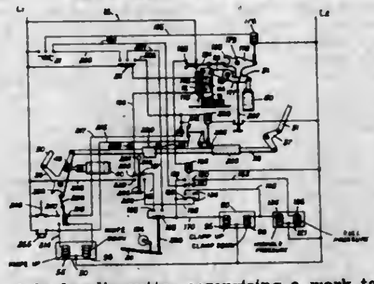
11. A control unit for a cooking range oven burner using gaseous fuel comprising a base, a thermostatic element mounted on said base, an electric ignition element mounted on said base in position to heat said thermostatic element, a pilot burner mounted in position to be ignited by said electric ignition element and to project a flame against said thermostatic element and further heat said thermostatic element, a normally open first switch mounted on said base, a second normally open switch mounted on said base, said thermostatic element being operative when heated by said electric ignition element to



close said first normally open switch and when further heated by said pilot burner to close said second normally open switch.

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**2,649,153**
**HYDRAULIC CUTTING MACHINE**
**Leo D. Barley, Dayton, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware**
**Application September 4, 1948, Serial No. 47,833**
**18 Claims. (Cl. 164—54)**

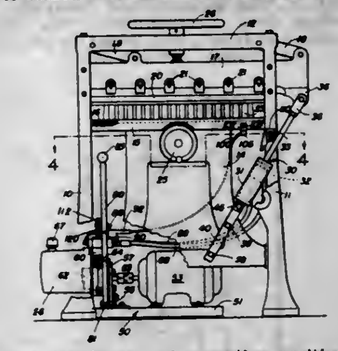


1. A hydraulic cutter comprising a work table adapted to receive the material to be cut, a knife mounted for reciprocation with respect to said table, means for latching said knife in raised position, a clamp movable toward and away from said table to clamp the material in working position thereon, means to latch said clamp in raised position above said table, hydraulic means for actuating both said clamp and said knife, controls for operating said hydraulic means initially in the direction to raise both said knife and said clamp, and means for releasing said clamp latch and said knife latch while said clamp and knife are raised.

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**2,649,154**
**HYDRAULICALLY OPERATED PAPER CUTTER**
**Joseph Adrian, Cleveland, Ohio, assignor to Super Speed Printing Machinery, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application August 26, 1950, Serial No. 181,631**
**8 Claims. (Cl. 164—56)**

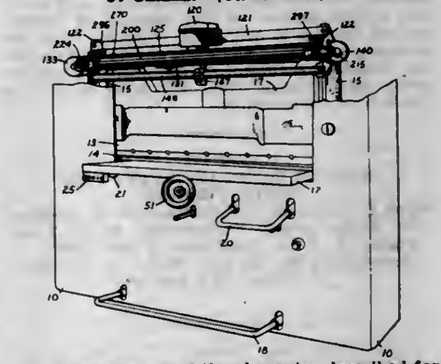
1. In a paper cutter including a knife that is supported substantially horizontally for up-and-down movement, hydraulic equipment for raising and lowering the knife, a member movable from a neutral position to a first operative position for causing said equipment to lower the knife and to a second operative position for causing the equipment to raise the knife, means tending to retain said member in neutral position, a movable latch element for cooperation with said member and that is biased in a direction to engage and hold



said member in second operative position, and means rendered effective when the knife reaches the top of its stroke to actuate the latch element and release said member.

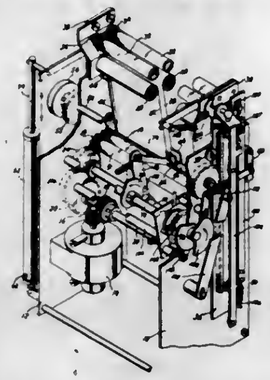
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**2,649,155**
**SHEET HANDLING MECHANISM FOR CUTTING MACHINES**
**William R. Spiller, Dayton, Ohio, assignor to Harris-Seybold Company, Dayton, Ohio, a corporation of Delaware**
**Application February 24, 1947, Serial No. 730,273**
**37 Claims. (Cl. 164—59)**



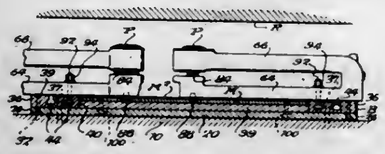
1. A mechanism of the character described for a machine having a work table and a work position thereon comprising a back gage, hydraulic motor means for moving said back gage over said work table on continuous forward and return strokes, a control bar, a plurality of stops on said bar of different characteristics, means for adjustably securing said stops in different positions on said bar corresponding to the locations where it is desired to stop the work, sensing means movable relative to said control bar in relation to the movement of said back gage including means controlled by certain of said stops for stopping said hydraulic motor with said back gage in predetermined positions relative to said work position, and additional means controlled by others of said stops for stopping the travel of said gage at any point in one direction and reversing said hydraulic motor to cause said back gage to reverse and travel in the opposite direction.

**2,649,156**
**SNAP-OUT FORM SEPARATING DEVICE**
**Bernard A. Stafford, West Hartford, Conn., assignor to Niles-Bement-Pond Company, New Hartford, Conn., a corporation of New Jersey**
**Application June 8, 1951, Serial No. 230,525**
**12 Claims. (Cl. 164—84.5)**



1. A device for separating form sheets from a snap-out assembly comprising a pad of interleaved form and carbon sheets, said device comprising a body member having a pair of rotating rolls, clamping means extending parallelly to the rolls and spaced from said rolls a distance determined by the length of pad, abutment means to position the assembly for clamping, and movable guiding means for said assembly to present an end thereof to said rolls, whereby when the assembly is clamped along one end by said clamping means, engagement of the opposite end between said rotating rolls will sever said form sheets from the assembly.

**2,649,157**
**MASTER TEMPLATE SETUP FOR PUNCH PRESSES**
**Ralph L. Weisbeck, Cheektowaga, N. Y., assignor to Wales-Strippit Corporation, North Tonawanda, N. Y., a corporation of New York**
**Application May 31, 1951, Serial No. 229,089**
**12 Claims. (Cl. 164—94)**



1. Apparatus for forming a predetermined pattern of holes in a workpiece with a plurality of perforating devices, said apparatus comprising a master template having a plurality of locating means positioned thereon in accordance with said pattern, and a secondary template, having a plurality of locating means positioned thereon, adapted to register with certain only of the locating means of said master template, each of said perforating devices having means thereon which must be registered and engaged with both a locating means on said master template and a locating means on said secondary template in order to secure it in perforating position.

**2,649,158**
**INVERTED WELL PACKER**
**Frank A. Reed, Butler, Pa.**
**Application September 19, 1949, Serial No. 116,536**
**1 Claim. (Cl. 166—12)**



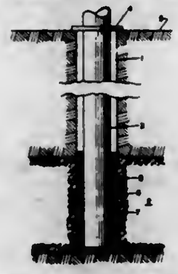
In an inverted well packer, the combination which comprises a vertically disposed connecting tube threaded at its upper end, a head threaded on the lower end of said connecting tube, a body sleeve positioned around and spaced from said connecting tube, a slip sleeve having an L-shaped slot therein positioned around said body sleeve, a body pin carried by said body sleeve and extended into said L-shaped slot of the slip sleeve, an extensible sleeve extended around said body sleeve and positioned with the lower end resting upon said head, a collar having a frustro-conical shaped upper end extended around the body sleeve and positioned on the upper end of the extensible sleeve, slips carried by said slip sleeve and positioned to be expanded by said collar, vertically spaced sets of outwardly bowed springs secured at one of the ends thereof to the surface of the slip sleeve, and a collar carried by the upper end of the slip sleeve and slidably mounted on the connecting tube, said collar having serrations in the outer surface of the upper end.

**2,649,159**
**METHOD OF SEALING POROUS FORMATIONS**
**Jackson S. Boyer, Darby, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**
**No Drawing. Application February 24, 1951, Serial No. 212,691**
**10 Claims. (Cl. 166—22)**

1. The method of sealing a porous formation traversed by a well borehole which comprises: introducing into said borehole a fluid sealing agent comprising a gross suspension of particles of solid material in liquid material, said solid material being selected from the group consisting of melamine, urea, thiourea, resorcinol, pyrogallol, and catechol, and said liquid material comprising an aldehyde condensible with said solid material to form a thermosetting resin, and said solid material being filterable from said suspension when said suspension is forced into a bed of 10 mesh sand; applying pressure on said sealing agent against the porous formation to force liquid material from the sealing agent into said formation, thereby filtering out a compact sheath, comprising the solid material wetted with the liquid material, on the borehole wall adjacent the formation; and permitting the sheath to condense under the influence of well temperature and pressure to form a hard resin layer substantially impervious to drilling fluid.



**2,649,160**
**METHOD OF CEMENTING CASINGS IN OIL WELLS**
**William K. Williams, Irving, and Milton E. Krogh, Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania**
**Application March 15, 1952, Serial No. 276,812**
**8 Claims. (Cl. 166—22)**

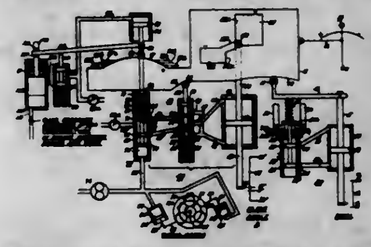


1. The method of forming a bond between the wall of a formation penetrated by a bore hole and the exterior of a well casing positioned in said bore hole which comprises drilling through said formation using a drilling fluid containing a first reagent whereby there is deposited on the wall of said formation a filter cake containing said first reagent, positioning said casing in said bore hole in a manner to form an annular space between said filter cake and said casing, introducing into said annular space and in contact with said filter cake a solution of a second reagent, subjecting said solution to sufficient pressure to cause a portion thereof to penetrate said filter cake, removing the excess of said solution, and introducing into said annular space cement capable of bonding to the exterior of said casing, said first and second reagents being chemical compounds capable of reacting to convert said filter cake into a cementitious material thereby providing a fluid impervious bond with the wall of said formation and with said cement in said annular space.

2. The method according to claim 1 in which said first and second reagents are chemical compounds which react to form a Sorel cement.

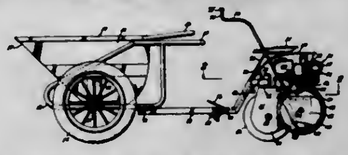
**2,649,161**
**ENGINE CONTROLLER**
**Howard Carson and Clifford L. Mussey, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application November 19, 1945, Serial No. 629,578**
**11 Claims. (Cl. 170—135.74)**

1. Control apparatus for an engine-propeller combination, the propeller having blades rotatable about their longitudinal axes to vary the pitch position thereof comprising, manually controlled means for varying the load on the engine including a fluid pressure operated device for varying the pitch position of said blades, a manually operable member for modifying the operation of said device, and means controlled by the engine torque transmitted to said propeller and by said member including a source of fluid pressure and a valve for controlling flow from said source to said device, to control the pitch position of said blades; a speed responsive fuel governor for controlling the supply of fuel to the engine to maintain a desired speed; and means including an abutment operable by said manual means and responsive



to engine temperature for modifying the effect of said member upon the control means for said pitch varying device independently of the setting of said member in order to reduce the pitch position of said blades so that overheating of the engine will be prevented.

**2,649,162**
**MONOWHEEL TRACTOR**
**Marion J. Wooldridge, Burbank, and George P. Carver, Northridge, Calif., assignors to Garlinghouse Brothers, Los Angeles, Calif., a copartnership**
**Application October 20, 1947, Serial No. 780,970**
**10 Claims. (Cl. 180—13)**

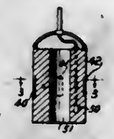


8. A monowheel drive for a wheeled vehicle comprising an implement frame, a drawbar extending from the frame, a traction frame, vertical pivot means pivotally connecting said traction frame to said drawbar whereby one of said frames is adapted to rotate in a horizontal plane relative to said other frame, a traction wheel on the traction frame, a motor base, a movable attaching means between the motor base and the frame, a motor mounted on the motor base and a reversible drive means between the motor and the traction wheel, said drive having forward, reverse and neutral adjustments corresponding to respective different positions of the motor base relative to the frame, a driver seat fixed to the drawbar, and means connected to the motor and adapted for movement therewith having a plurality of adjustments respectively for steering and for controlling the forward, reverse and neutral adjustments of said drive.

**2,649,163**
**METHOD OF MEASURING THE CROSS SECTIONAL AREA OF BOREHOLES**
**Earle R. Atkins, Jr., La Habra, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California**
**Application June 23, 1949, Serial No. 100,907**
**2 Claims. (Cl. 181—0.5)**

1. A method for determining the cross-sectional dimensions of an elongated bore-hole containing a bore-hole liquid, said bore-hole traversing sub-

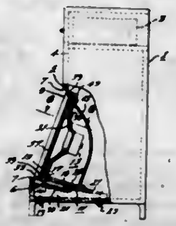
stantial cross-sectional irregularities, which comprises axially sweeping a vertical sector of said bore-hole with a plurality of transducers positioned in radially symmetric fashion around the axis of said bore-hole and facing the walls of said bore-hole, said transducers being electrically actuated at a plurality of levels within said sector to produce low-frequency sonic vibrations, said sonic vibrations being radiated from said transducers



into said liquid and dissipated therein, separately measuring the electrical power requirements for actuating each of said transducers at each of said levels, and correlating said electrical power requirements by direct proportionation to indicate (1) differences in cross-sectional area of said bore-hole between each of said levels, and (2) the approximate cross-sectional shape of said bore-hole at each of said levels.

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**2,649,164**
**CABINET FOR SOUND TRANSLATING APPARATUS**
**Harry F. Olson, Princeton, and John Preston, Metedeconk, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application December 29, 1949, Serial No. 135,664**
**8 Claims. (Cl. 181—31)**

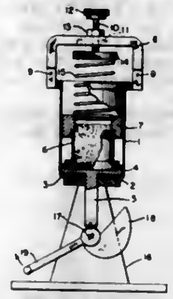


7. In a cabinet for radio apparatus or the like, said cabinet having a front wall provided with an opening, a baffle board having an opening therein, a loudspeaker having a diaphragm, said diaphragm being mounted in registry with said baffle board opening and having the plane of the periphery thereof disposed substantially flush with the front face of said baffle board, said baffle board being mounted for movement into and out of said front wall opening, and means operatively connected with said baffle board for moving said baffle board to a position in which it forms a continuous surface with at least a portion of said front wall.

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**2,649,165**
**GREASE COMPACTER**
**Albert Stabler, Hammond, Ind., assignor to Sinclair Research Laboratories, Inc., Harvey, Ill., a corporation of Delaware**
**Application March 20, 1952, Serial No. 277,573**
**2 Claims. (Cl. 183—2.5)**

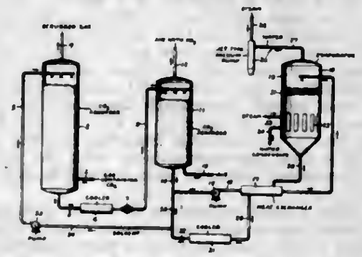
1. A grease compacter useful in preparing uniform samples of grease for penetration testing which comprises a vertically positioned slide mount having a stop at its lower end, a plunger slidably mounted within said slide mount, a cam having a slow-rise, quick-drop profile operatively engaging said plunger, a cup retainer slidably mounted within said slide mount above said plunger, said plunger being adapted to receive a grease containing cup on its upper surface and said cup retainer being adapted to engage the upper end of said grease containing cup, a spring



retainer fixed to said slide mount above said cup retainer, and a compression spring between said spring retainer and cup retainer, said spring being placed under compression against said cup retainer by said spring retainer when said grease containing cup is mounted upon said plunger and engaged with said cup retainer.

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**2,649,166**
**ABSORPTION OF CARBON DIOXIDE FROM GASES CONTAINING THE SAME**
**Frank Porter and John C. Eck, Morris Township, Morris County, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York**
**Application May 2, 1950, Serial No. 159,529**
**3 Claims. (Cl. 183—115)**

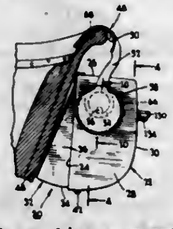


1. A process for the removal of carbon dioxide from gases containing the same which comprises passing a gas containing carbon dioxide in intimate contact with a normally liquid polyglycol ether selected from the group consisting of dimethoxytetraethylene glycol, diethoxytriethylene glycol, dibutoxytriethylene glycol, dibutoxydiethylene glycol, dipropoxytetraethylene glycol, dipropoxytriethylene glycol and dipropoxydiethylene glycol thereby absorbing the carbon dioxide in the polyglycol ether solvent, passing a stream of air through the polyglycol ether containing dissolved carbon dioxide to effect removal of the carbon dioxide from the solvent, subjecting a minor portion of the degassed solvent to evaporation for removal of water therefrom, commingling the dewatered solvent with degassed solvent not subjected to evaporation for removal of water, returning the mixture of dewatered and degassed solvent for further contact with the gas containing carbon dioxide, and regulating the relative proportion of degassed solvent and dewatered solvent in the mixture so that the solvent mixture will contain less than 5% by volume of water.



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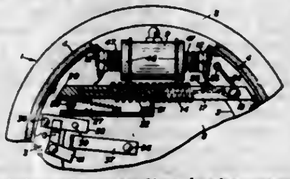
**2,649,167**
**ROCKER FOR INFANT-CARRYING DEVICES**
**Gordon H. Strom, Charles Lichter, and Paul Rusinsky, New York, N. Y., assignors to Automatic Rock-A-Bye, Inc., New York, N. Y., a corporation of New York**
**Application August 1, 1950, Serial No. 176,955**
**5 Claims. (Cl. 185—37)**



4. A device for rocking a perambulator or the like comprising a weight, means to mount said weight for rotation about a horizontal axis eccentrically disposed with respect to the center of gravity of the weight, means to rotate said weight, means to counterbalance the dead weight torque of said weight, said means comprising a spring and a linkage to transmit force from said spring to said weight, and means to attach said mounting means to a perambulator or the like.

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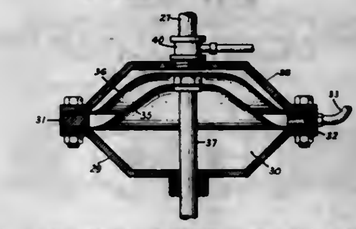
**2,649,168**
**AUTOMATIC WEAR TAKE-UP MECHANISM FOR INTERNAL EXPANDING HYDRAULIC BRAKES**
**John A. Shipes, Charlotte, N. C.**
**Application September 11, 1950, Serial No. 184,268**
**5 Claims. (Cl. 188—79.5)**



1. An internal expanding brake comprising a pair of pivoted brakeshoes movable into brake engaging and disengaging positions, respectively, a pair of relatively long and short ratchet toothed bars each pivoted adjacent one end on an associated brakeshoe for swinging movement thereon with the ratchet teeth of said bars facing, spring means pressing the longer bar against the shorter bar to normally swing said shorter bar parallel with the longer bar for interlocking of the teeth of said bars when said shoes are disengaged to limit disengaging movement of said shoes and establish the degree of brake clearance, said bars being longitudinally adjustable oppositely by engaging movement of said shoes and with a tooth of the longer bar frictionally engaging one tooth of the shorter bar at one side of its pivot to swing said shorter bar in one direction, such swinging of said shorter bar compensating for longitudinal adjustment of said bars with said one tooth interlocked with teeth of the longer bar, means limiting such swinging of said shorter bar to cause the longer bar to ratchet over said one tooth and automatically vary the position of said bars longitudinally whereby to take up wear on the shoes when said shoes are disengaged, and means to swing said longer bar clear of said shorter bar into tooth disengaging position for manual setting to engage said teeth in different longitudinal positions of said bars for predetermining the brake clearance.

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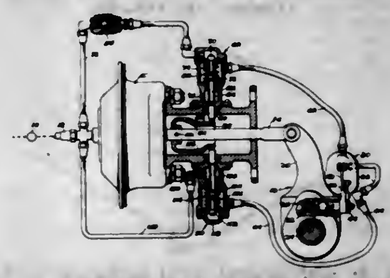
**2,649,169**
**COMBINED POWER-ASSISTED AND MECHANICAL BRAKING SYSTEMS FOR VEHICLES**
**Frank H. Holman, Jr., Swarthmore, Pa., assignor to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware**
**Application November 7, 1947, Serial No. 784,726**
**8 Claims. (Cl. 188—152)**



3. A vehicle brake system comprising a brake actuating motor having first and second flexible diaphragms therein, said diaphragms dividing said cylinder into a plurality of sealed compartments, a brake actuating rod connected to said first diaphragm and movable relatively to said motor as said first diaphragm flexes, a source of fluid pressure, means connecting said source to one of said compartments between said diaphragms, a foot-actuated valve for controlling the supply of fluid pressure to said one of said compartments, another source of fluid pressure, means connecting said another source to another of said compartments on the opposite side of said second diaphragm from said one compartment, and a hand-actuated valve for controlling the supply of fluid pressure to said another compartment.

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**2,649,170**
**AUTOMATIC SLACK ADJUSTER**
**John F. Shumaker, Elyria, Ohio, assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware**
**Application July 12, 1950, Serial No. 173,337**
**12 Claims. (Cl. 188—196)**

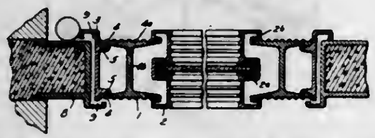


1. An automatic slack adjuster for vehicle brakes, comprising a brake operating shaft for

applying the brakes, a fluid pressure actuator, a slack adjuster operatively connecting the shaft and actuator for rotating the shaft when the actuator is energized, said slack adjuster including a body member, a worm wheel carried thereby and connected with said shaft, and a worm engaged with said worm wheel and rotatably mounted in said body member for adjusting the position of the worm wheel to take up the slack in the brakes, fluid pressure operated means for rotating said worm, means including a conduit for charging said actuator, a second conduit connecting the actuator and fluid pressure operated means, a normally closed valve in the second conduit, and means dependent upon a predetermined extent of movement of the actuator for opening said valve.

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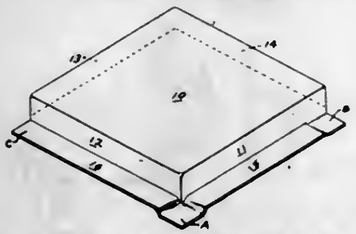
**2,649,171**
**METAL DOOR**
**Eric Sigfrid Persson, Malmoe, Sweden**
**Application November 28, 1949, Serial No. 129,815**
**In Sweden December 1, 1948**
**1 Claim. (Cl. 189—46)**



A door comprising an inverted U-shaped metal frame providing a head rail and stiles, and formed of a metal member of I-shaped cross section having two spaced flanges parallel to the plane of the door and a web connecting the intermediate portions of the flanges and extending perpendicularly to the plane of the door, a glass pane, a molding surrounding the edge of said pane and having peripheral portions cooperating with the flanges of said U-shaped frame for mounting said pane within the U-shaped frame, means mounted in the lower portion of the U-shaped frame and extending between the sides thereof for retaining said pane and molding in the upper portion of the U-shaped frame, and an inverted U-shaped metal edge surfacing and fitting strip surrounding the U-shaped frame and provided with inwardly extending flanges cooperating with the flanges of said U-shaped metal frame.

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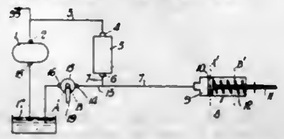
**2,649,172**
**ARCHITECTURAL PANEL**
**Francis E. Allen, Oakland, Calif., assignor to Architectural Porcelain Constructors, Oakland, Calif., a corporation of California**
**Application June 2, 1947, Serial No. 751,772**
**3 Claims. (Cl. 189—86)**



1. An architectural panel comprising a plane rectangular surface flanged rearwardly on four sides, and flanges extending outwardly from the rearward flanges on two adjacent sides, said outward flanges being joined to form a full flange surface at the corner of their junction whereby a group of panels may be arranged with each panel overlapping the outward flange on a vertical and horizontal edge of an adjacent panel to form a water shed, and depressed areas of different depths at two adjacent corners of the outward flanges the depressed area at said corner of junction being the deeper to admit portions of other flanges in overlapping relationship while maintaining the plane surfaces of all panels in the group in the same plane.

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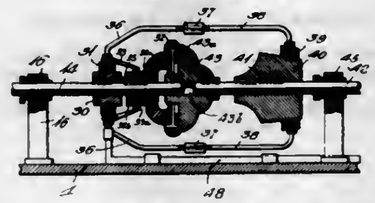
**2,649,173**
**HYDRAULIC REMOTE-CONTROL SYSTEM**
**Walter Augustus Stewart, Weymouth, England**
**Application May 23, 1951, Serial No. 227,810**
**In Great Britain April 27, 1950**
**7 Claims. (Cl. 192—.098)**



1. A hydraulic remote control system for controlling the throttle of an engine which latter is arranged to drive an output shaft in a forward direction through an ahead clutch and in a reverse direction through a reverse clutch, the throttle being displaceable from an engine idling position to positions where the engine speed is increased, said system comprising a hydraulic resistance having an inlet and an outlet, a connection from said inlet to a source of hydraulic liquid under pressure, an assembly having a first principal part consisting of a cylinder and a second principal part consisting of a piston which latter is relatively axially movable in the cylinder in accordance with the pressure of the hydraulic liquid on said piston, a connection between one of the two parts of said assembly and the throttle of the engine, the connection holding the throttle in the idling position when the hydraulic pressure on the piston is below a predetermined value, means holding the other part of said assembly stationary, a first conduit for delivering hydraulic liquid from the outlet of the hydraulic resistance to said cylinder, a leak-off conduit communicating with said first conduit, a control valve for varying the rate of flow of hydraulic liquid along said leak-off conduit, the control valve having an unrestricted outlet, and the control valve having an initial position in which the throttle is maintained in a position corresponding to an idling speed of the engine, and having driving positions in which for increased displacement of the control valve from its initial position, the valve progressively reduces the rate of flow of hydraulic liquid along said leak-off pipe, whereby the throttle is moved to increase the engine speed, a selector having three operative positions, connections between the selector and the clutches ensuring that in the first position of the selector the ahead clutch is engaged, in the second position of the selector neither clutch is engaged and in the third position of the selector the reverse clutch is engaged, and a single control means for operating the control valve and the selector, the control valve being in its initial position when the selector is in its second position and being moved to driving postions when the selector is in its first and third positions.



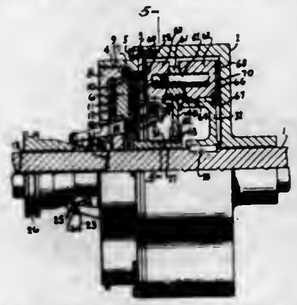
**2,649,174**
**CLUTCH AND BRAKE DEVICE**
**Earle Prichette Cox, Columbus, Miss.; Lucile McCreight Cox, administratrix of said Earle Prichette Cox, deceased**
**Application May 13, 1949, Serial No. 93,097**
**3 Claims. (Cl. 192—18)**



1. Control mechanism comprising in combination a driving shaft and a driven shaft, means journalling said shafts for rotation on the same horizontal coincidental axis, a brake drum carried by said driven shaft and having a tapered cylindrical surface thereon, a clutch member carried by said driven shaft and having a central socket recess therein aligned with said driving shaft and into which the end of said driving shaft projects, a cylindrical guide boss carried by said driving shaft, a non-rotatable slip ring longitudinally slidable along said guide boss, a clutch member rotatably connected with said slip ring and aligned with the clutch member carried by said driven shaft, a brake band engageable with respect to the tapered cylindrical surface of said brake drum, means interconnecting said brake band with said slip ring, and means connected with said non-rotatable slip ring for axially displacing said second mentioned clutch member into engagement with said first mentioned clutch member while simultaneously releasing said brake band with respect to said brake drum for effecting a driving connection and transmitting rotative power from said driving shaft to said driven shaft.

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**2,649,175**
**FRICTION CLUTCH**
**Leslie D. Stripling, Bay City, Tex.**
**Application January 19, 1951, Serial No. 206,869**
**6 Claims. (Cl. 192—35)**



1. In a clutch, the combination of, a shaft, a housing assembly including an inner annular surface driving plate, a pressure plate within said housing and around said shaft and adapted to slide axially with relation to said shaft and housing, actuating plate means around said shaft and including a hub having pinion teeth thereon, a shoe carrier member keyed to said shaft, pin means in said carrier and extending parallel to the axis of said shaft, arm means comprising rack segment means to mesh with said pinion teeth and including cam means through which said pin means passes, substantially circular shoe means mounted on said carrier and adapted to move radially of said shaft axis, and an actuator means adapted to move said pressure plate axially of said shaft and into frictional contact with said actuating plate means to force said actuating plate means against said driving plate so that said carrier may rotate with relation to said actuating plate means whereby said rack segment rotates in engagement with said pinion and said cam forces said shoe means outwardly from said cam to frictionally engage said inner housing surface to rotate said housing with said shaft.

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**2,649,176**
**SELECTIVE ONE-WAY DRIVE**
**Stover C. Winger, Los Angeles, Calif., assignor of fifteen per cent to John Flam, Beverly Hills, Calif.**
**Application June 29, 1949, Serial No. 100,239**
**5 Claims. (Cl. 192—43)**



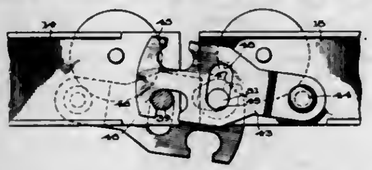
1. In a clutch mechanism: a shaft having angularly spaced flat surfaces; means providing a recess into which the shaft extends, said recess forming an internal cylindrical friction surface coaxial with the axis of the shaft; a plurality of segments having cooperating friction surfaces and having plane surfaces cooperating respectively with the flat surfaces of the shaft, the clearance between the plane and flat surfaces being such that relative angular rotation in either direction between the shaft and the segments produces a wedging of the friction surfaces against the cylindrical surface; and means slidable along the shaft and non-rotary with respect thereto, for selectively restraining relative angular movement between the shank and each of the segments in either of the two directions of relative movement, including a pair of sets of abutments, each set providing a simultaneous restraint for each segment.

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**2,649,177**
**UNIVERSAL COUPLING FOR CONVEYERS**
**Martin J. Anderson, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania**
**Application March 12, 1951, Serial No. 215,123**
**12 Claims. (Cl. 193—35)**

1. In a conveyer section having spaced side rails, a universal section coupling comprising a

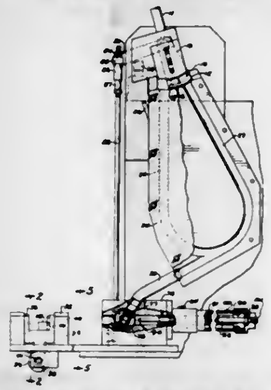
member pivoted to one side of one rail, and upwardly and downwardly extending hooks on said member beyond the end of said one rail for



respectively engaging beneath or above a coupling stud on a corresponding side rail of an adjoining section.

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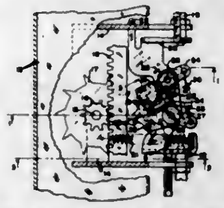
**2,649,178**
**MACHINE FOR FEEDING FITTINGS**
**Arthur W. Payne, Detroit, Mich., assignor to Bundy Tubing Company, Detroit, Mich., a corporation of Michigan**
**Application November 1, 1948, Serial No. 57,802**
**1 Claim. (Cl. 198—39)**



In an apparatus for applying two hollow fittings, each having a head at one end and a screw thread at the other end, onto a length of tubing, comprising a conduit adapted to hold fittings in a column with the fittings all having the same position relative to each other, passage means of conduit form and of U-shape having a closed conduit bight portion positioned lowermost and having two conduit arm portions extending upwardly therefrom, the ends of the two arm portions being spaced from each other, the outlet end of said conduit being positioned adjacent to and above the said ends of the conduit arms of the passage means, a shuttle device positioned between the outlet end of the conduit and the upper ends of the two conduit arms and having apertures therein for receiving fittings from the conduit, means for shifting the shuttle device back and forth to thereby discharge alternate fittings respectively into the two conduit arms of the U-shaped passage, an outlet passage connecting into the conduit bight portion tangentially and disposed at an angle to the horizontal, whereby one fitting discharged into one conduit arm gravitates therethrough and directly into the tangential outlet passage, and the next fitting which is discharged into the other conduit arm gravitates therethrough and traverses the intersection between the outlet passage and the conduit bight portion and then reverses its direction of movement and gravitates through the outlet passage in reversed position, and mechanism at the end of the outlet passage for receiving two reversely positioned fittings.

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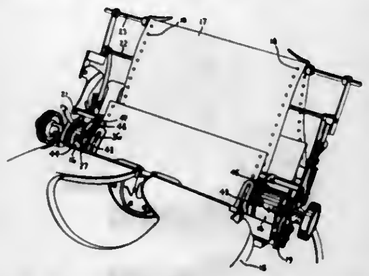
**2,649,179**
**CARRIAGE FEEDING ESCAPEMENT MECHANISM**
**Joseph P. Barkdoll, Groton, N. Y., assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York**
**Application April 29, 1950, Serial No. 158,985**
**6 Claims. (Cl. 197—88)**



4. In a carriage feeding escapement mechanism, the combination of a dog rocker, spring restored stepping and holding dogs pivotally mounted on the dog rocker for collision of the stepping dog with the holding dog while the latter is in restored position to thereby limit stepping movement of the stepping dog from restored position, and means on the dog rocker to arrest restoring movement of said dogs at their respective restored positions, each of said dogs having a nose at one side of its pivot for toothed engagement of a carriage feed rack therewith, which dog noses are substantially in register while the stepping dog is in collisive engagement with the restored holding dog.

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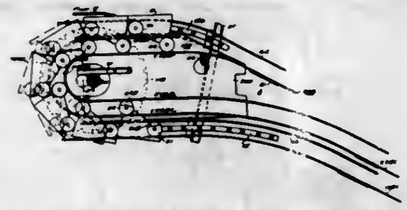
**2,649,180**
**STRIP FEEDING APPARATUS**
**Albert W. Metzner, Dayton, Ohio, assignor to The Standard Register Company, Dayton, Ohio, a corporation of Ohio**
**Application October 20, 1950, Serial No. 191,289**
**13 Claims. (Cl. 197—133)**



1. In a typewriter or like device utilizing a rubber or rubber-like platen, a pin feed mechanism including spaced apart bands frictionally engaging the platen, feed pins carried by said bands, and a spring clip surrounding each band and formed with prongs to be pressed through openings in the band and into the platen to anchor the band to the platen.



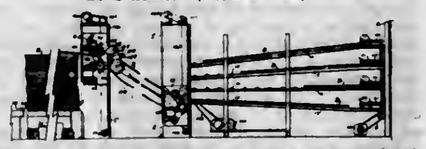
**2,649,181**
**MOVING STAIRWAY**
**Hans E. Hansen, New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh Pa., a corporation of Pennsylvania**
**Application June 1, 1948, Serial No. 30,237**
**29 Claims. (Cl. 198—16)**



26. In a moving stairway, an upper stairway assembly including a first supporting structure, a first wheel, first bearing means mounting the first wheel on the supporting structure for rotation about a first axis, first guide means mounted on said supporting structure, said supporting structure and guide means having clearance permitting adjustment of the bearing means and first wheel in a direction transverse to the axis for a predetermined distance, a lower stairway assembly including a second supporting structure, a second wheel, second bearing means mounting the second wheel on the supporting structure for rotation about a second axis spaced from, and parallel to, the first axis, second guide means mounted on the supporting structure, said second supporting structure and second guide means having clearance permitting adjustment of the second bearing means and second wheel in a direction transverse to the second axis for a predetermined distance, an endless flexible unit for engaging the wheels and extending therearound in a circuitous path, a plurality of stairway step units distributed around the flexible unit and engaging the flexible unit for movement therewith about the circuitous path, said first guide means being positioned to engage and guide a portion of each of the step units spaced from the flexible unit as the engaged step unit moves about the first wheel, said second guide means being positioned to engage and guide a portion of each of the step units spaced from the flexible unit as the engaged step unit moves about the second wheel, the sum of the predetermined distances being sufficient to permit a change in length of the flexible unit corresponding to the width of one of the steps, and means for securing the bearing means in adjusted positions to the supporting structures.

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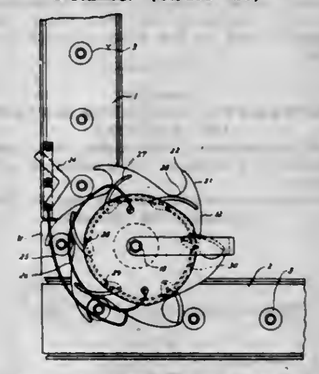
**2,649,182**
**APPARATUS FOR HANDLING VENEER**
**Clarence E. Parker, Painesville, Ohio, assignor to The Coe Manufacturing Company, Painesville, Ohio, a corporation of Ohio**
**Application August 4, 1948, Serial No. 42,373**
**17 Claims. (Cl. 198—21)**



17. In equipment for loading material in sheet form into a multiple deck power driven conveyor type machine, the combination of vertically movable feed means having an entering end and a discharge end, said feed means including a pair of pinch rolls, means for driving said pinch rolls, power actuated means for vertically moving said entering end of said feed means, power actuated means for producing relative movement of said pinch rolls toward and from each other, and automatically controlled power actuated means for moving said discharge end of said feed means vertically in timed relation to the relative movement of said pinch rolls relative to each other.

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**2,649,183**
**BOTTLE CONVEYING AND TRANSFER MECHANISM**
**Arch L. Steck, Oil City, Pa., assignor, by mesne assignments, of one-half to Knox Glass Bottle Company, Knox, Pa., a corporation of Pennsylvania**
**Application December 8, 1948, Serial No. 64,129**
**3 Claims. (Cl. 198—22)**



1. In a bottle conveying and transfer mechanism, a plurality of conveyor belts moving in a plane with a dead plate or stationary support, a star wheel journaled for rotation on said plate and overlapping the conveyor belts, said star wheel having arms with curved faces in the shape of an involute curve terminating in a semicircular recess for engaging the bottles and moving them from one conveyor to the other, arcuate guides in alignment with said star wheel in the path of travel of said bottles, curved fingers pivotally mounted on said star wheel for removing the bottles from said transfer mechanism, the curvature of the fingers being opposite to the curved faces of the star wheel, and cam mechanism for actuating said fingers to eject the bottles from said arm to transfer them in a row on the conveyor belt in predetermined spaced relation.

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**2,649,184**
**AUTOMATIC CAN DISTRIBUTOR**
**Thomas C. Dodge, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application October 5, 1951, Serial No. 249,876**
**14 Claims. (Cl. 198—22)**

1. In a can distributing means for distributing cans having countersinks in the bottoms thereof, the combination of a conveyor having provision for moving the cans along uprightly, a peripherally pocketed rotor rotatably mounted at one side of the conveyor in position for having the conveyed cans engage in the pockets thereof, said

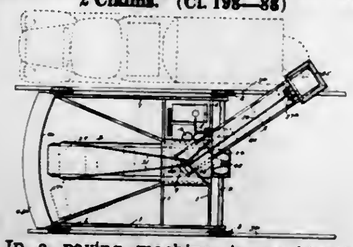
conveyor including means for supporting the cans as they are being conveyed and presenting a clearance downwardly through which at least portions of the can countersinks are exposed downwardly as the cans are engaging in the rotor pockets, means movable at times for engaging in



the downwardly exposed countersinks of cans while they are engaged in rotor pockets for retaining the engaged cans in the rotor pockets temporarily so as to remove them from said conveyor, and a discharge way into which the cans temporarily held in the rotor pockets are discharged.

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**2,649,185**
**CONVEYER TYPE CONCRETE DISTRIBUTING MACHINE**
**Erich H. Lichtenberg, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation**
**Application October 28, 1946, Serial No. 706,121**
**2 Claims. (Cl. 198—86)**

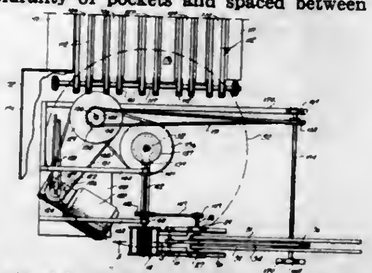


1. In a paving machine, in combination, a traveling base and chassis, adapted to move longitudinally of a road sub-grade, a receiving conveyor carried by the chassis and extending from one end of the same, a distributing conveyor having its receiving end arranged to receive materials from the delivery end of the receiving conveyor, and automatic reversing means for moving the delivery end of the distributing conveyor back-and-forth transversely of a road sub-grade comprising an axle shaft and wheels for supporting the chassis, a motor drivingly connected to the shaft to propel the machine and a member on the shaft for causing the said movement of the delivery end of the conveyor.

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**2,649,186**
**EGG FEEDING MECHANISM**
**Charles K. Powell, Washington, D. C., assignor to Chestnut Farms-Chevy Chase Dairy Company, Washington, D. C., a corporation of Delaware**
**Original application March 24, 1949, Serial No. 83,279. Divided and this application July 7, 1950, Serial No. 172,427**
**5 Claims. (Cl. 198—103)**

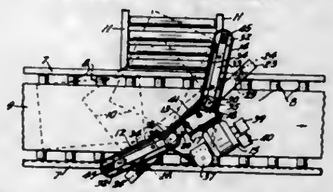
1. In a machine for classifying eggs by weight which includes a feed section, a weighing section, and a delivery section, a feed section comprising a first channel member, a pair of parallel belts movable forwardly in said channel member for advancing a plurality of eggs in seriatim, a rotatable loading wheel for delivering said eggs to the weighing section, said loading wheel comprising a pair of spaced disks and a plurality of transverse resilient members defining a plurality of pockets and spaced between the



disks to pick up and carry the eggs individually, a second channel member extending from the forward end of the first channel member substantially to the periphery of the loading wheel to convey eggs, in seriatim, to the loading wheel, and a belt movable rearwardly in the second channel member to position eggs in said channel member with their longest axes transverse to the channel member.

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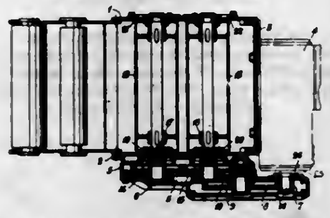
**2,649,187**
**POWER-DRIVEN DIVERTER ATTACHMENT FOR CONVEYERS**
**Ira Smith Eggleston, St. Paul, Minn., assignor to Standard Conveyor Company, North St. Paul, Minn., a corporation of Minnesota**
**Application June 20, 1949, Serial No. 100,180**
**6 Claims. (Cl. 198—185)**



4. For a conveyor adapted to carry load units along a determined path and having side rails and load supporting members carried by said rails and defining a load supporting surface, a frame adapted to be supported on said rails and to extend across and above said surface, means for detachably connecting said frame to said rails, an electric motor carried by said frame, an endless diverter unit operatively connected to said motor and having a load engaging reach adapted to extend obliquely across said path for engagement with load units carried by said conveyor, a substantially horizontally extending arm pivotally connected at one end to said frame and carrying a guide for a second diverter unit, a second endless diverter unit trained on said guide and having a reach for engagement with the load units extending at an angle to said reach of the first mentioned diverter unit and means for securing said arm in selected angular positions to adjust the angle of said reach of the second diverter unit relative to said reach of the first mentioned diverter unit.



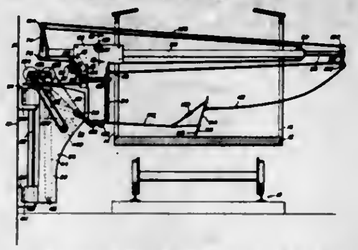
**2,649,188**
**BELT CONVEYER DRIVING UNIT**
**Angus Wellesley Duncan, Worcester, England, assignor of one-half to The Mining Engineering Company Limited, Worcester, England**
**Application October 21, 1949, Serial No. 122,828**
**In Great Britain October 26, 1948**
**2 Claims. (Cl. 198—203)**



1. A conveyor comprising side frames between which a belt is disposed longitudinally, at least one belt drive drum mounted transversely between said side frames, a shaft supporting said drum and fixed therewith, a motor mounted substantially between said side frames and having a shaft parallel with said drum shaft, a relatively flat housing removably mounted on one of said side frames, reduction gear mechanism journalled in said housing and carried thereby, and axially slidable coupling means between said gear mechanism and said drum and motor shafts, whereby said gear mechanism may be uncoupled from said shafts and unitarily removed with said housing from said conveyor, said coupling means between the reduction gear mechanism and the motor shaft comprising the first and second pinions of the reduction gear mechanism and being intermeshed and disengaged by relative axial movement, said first pinion being fixed on the motor shaft, said housing having an opening in its inner side for the passage of said first pinion, and a cap surrounding the motor shaft and removably covering said opening.

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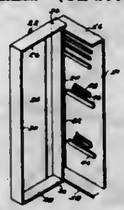
**2,649,189**
**BOXCAR GRAIN UNLOADER**
**George F. Schmidt, Decatur, Ill., assignor of fifty per cent to George H. Schmidt, Decatur, Ill.**
**Application August 23, 1948, Serial No. 45,612**
**8 Claims. (Cl. 198—222)**



1. In a car unloader, a support, a frame pivoted to said support for horizontal swinging movement, a carriage pivoted to said frame for movement towards and away from said frame about a horizontal pivot, a body rotatably mounted on said carriage for movement about a vertical axis, a horizontally extending boom on said body and a scoop depending from and movable longitudinally of said boom, said boom including telescoping outer and inner members, manually operable means for effecting longitudinal movement of said members, said manually operable means including a cable secured at its opposite ends to said inner member and a pulley for moving said cable, truss means supporting the outer ends of said inner and outer members which automatically adjusts itself to relative longitudinal movement of said members.

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**2,649,190**
**TIE CASE**
**Frank G. Husted, Lubbock, Tex.**
**Application September 26, 1950, Serial No. 186,802**
**1 Claim. (Cl. 206—7)**



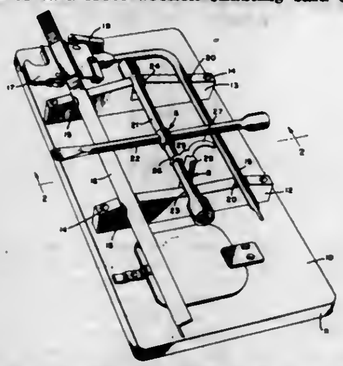
In a tie case, a back section and a front section, said back section comprising a vertical back wall having forwardly projecting end walls on its end edges, said end walls extending the full length of the end edges of said back wall, a single side wall extending forwardly from one side edge of said back plate and joined at its ends to the adjacent ends of said end walls, the opposite side edge of said back plate being devoid of a side wall, and an abbreviated wall narrower than said end walls, said abbreviated wall having a side edge joined to and extending along the forward edge of said single side wall and end edges joined to the forward edges of said end walls, the remaining portions of the forward edges of said end walls being unencumbered, said front section comprising a vertical front plate of substantially the same shape and length but narrower than the back plate of the back section, end walls projecting rearwardly from the end edges of said front plate, said end walls being of substantially the same length as the end walls of the back section and extending beyond one side edge of the front plate to define arms engaging the outer surfaces of the end walls of the back section, said front section having a single side wall projecting rearwardly from the remaining side edge of the front plate with its ends joined to the adjacent ends of the front section end walls opposite said arms, and means hinging said arms on the back section end walls in line with said abbreviated wall whereby when the front section is closed onto the back section the abbreviated wall closes the space between the said one edge of the front plate and the outer ends of said arms, necktie supporting arms projecting from the side wall of said back section, and means on the forward surface of said back wall and located only in the space between the said opposite side edge of the back plate and the adjacent edge of said abbreviated wall for retaining the neckties in place against the back wall of the front section when the sections are closed.

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**2,649,191**
**AUTOMOBILE TOOL KIT**
**Frank M. McLaughlin, deceased, late of Hinckley, Minn., by Frank H. McLaughlin, administrator, Moorhead, Minn.**
**Application March 19, 1951, Serial No. 216,296**
**3 Claims. (Cl. 206—16)**

3. In an automobile tool kit, a base, a lifting jack including a post and a separable handle, and

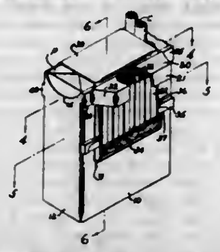
a cross-wrench having a first shank and a second shank intersecting each other intermediately thereof in right angular relationship, said base comprising a base-panel, a pair of seats on the base-panel for opposite end portions of said jack-post, another pair of seats on said base-panel for opposite end portions of said jack-handle, said pairs of seats being relatively arranged to locate the seated jack-post and jack-handle in substantially parallel relationship spaced apart a distance less than the length of said second shank of said cross-wrench enabling said cross-



wrench to be positioned with its said first shank between the jack-post and jack-handle of said lifting jack and with the opposite end portions of said second shank of said cross-wrench resting, respectively, upon intermediate portions of said jack-post and jack-handle, and clamp means on the base-panel releasably engaging said first shank of said cross-wrench holding it relative to the base-panel and clamping it against said jack-post and jack-handle, in turn clamping said jack-post and jack-handle against their respective seats.

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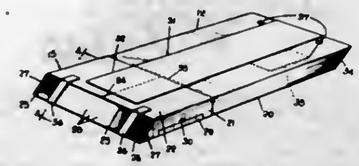
**2,649,192**
**CIGARETTE PACKAGE AND MATCHBOOK CONTAINER**
**Dale D. Hayes, Greensboro, N. C., assignor of one-half to Paul L. Shadburn, Greensboro, N. C.**
**Application January 22, 1951, Serial No. 207,177**
**2 Claims. (Cl. 206—38)**



1. A cigarette package and match book container comprising an open ended rectangular casing having front, rear and bottom walls, said front wall being provided with a retaining bar thereon spaced from the open end of the casing, a match head cover secured to said front wall adjacent the open end of the casing and having a slot therein adjacent said front wall, whereby a match book having a cover may be positioned with its cover between the retaining member and the front wall of the casing and extending through the slot in the match head cover and over the open top of the casing and said casing having a pressure bar on the rear wall thereof having a pressure block thereon adapted to frictionally engage the match book cover to hold the same in position.

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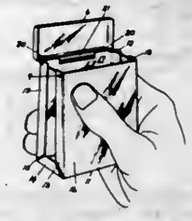
**2,649,193**
**SALES TICKET CARTRIDGE**
**John C. Condon, Oak Park, Ill., assignor of one-half to Whitney K. Munson, Red Bank, N. J.**
**Application June 28, 1949, Serial No. 101,875**
**2 Claims. (Cl. 206—39)**



1. A ticket cartridge of the character described comprising a mounting, a plurality of tickets adapted to be held in said mounting, said mounting comprising a bottom wall substantially common to the size of the tickets, one end portion only of the mounting having side and top wall portions which, in combination with the bottom wall, envelope one end portion of the tickets, means holding said walls in assembled relationship on said plurality of tickets, said means including means for normally holding tickets against displacement from one end of the cartridge, means attached to top and bottom walls of the mounting and to part only of end edges of the tickets arranged therein for holding said ticket against accidental displacement when said other ticket holding means is removed, and said last named means comprising a narrow gummed tape engaging corners only of edge portions of all of said tickets.

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**2,649,194**
**CASE FOR A PACKAGE OF CIGARETTES**
**John F. Babbitt, Louisville, Ky., assignor to Rogers Imports Inc., New York, N. Y., a corporation of New York**
**Application October 15, 1948, Serial No. 54,891**
**2 Claims. (Cl. 206—41)**



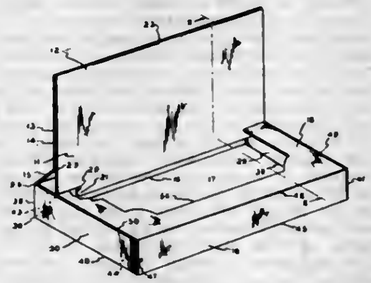
1. A container for a package of cigarettes comprising a body of resilient material having a bottom from which spaced front and back walls extend upwardly, said front wall having side flanges extending rearwardly from the side edges thereof, a unitary cover arranged in a horizontal plane across the top of said body and having a peripheral flange extending downwardly and em-



bracing the upper edge portions of said front wall and said side flanges, means pivotally connecting the rear edge portion of said cover to the upper edge portion of said back wall on a horizontal pivotal axis located below said peripheral flange, a pair of headed pins carried by said side flanges respectively and extending inwardly therefrom on a common horisontal axis near the upper ends of said side flanges, a U-shaped wire element having eyes formed at the ends thereof and encircling the shanks of said pins, and means pivotally connecting the bridge portion of said wire element to the rear portion of said peripheral flange on a horizontal axis located above the pivotal axis of said cover whereby, upon pressing the upper end of said front wall towards said rear wall, said cover is rotated by said wire element from a horizontal or closed position to a vertical or open position.

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**2,649,195**
**SINGLE BLANK CARTON WITH DISPLAY CARD COVER**
**Harry J. Rossi, New York, N. Y., and Arthur J. Weiss, West Englewood, N. J., assignors to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware**
**Application April 6, 1950, Serial No. 154,284**
**2 Claims. (Cl. 206—45.29)**



1. A carton formed from a single piece of paperboard comprising a tray having a bottom, rear and front walls, and two end walls, a top wall integrally hinged to the top edge of the front wall, a cover integrally hinged to the top edge of the rear wall, the top wall being provided with foldable tabs on its unhinged sides for insertion into the tray and for spacing the top wall on the bottom wall, said top wall also being provided with a display aperture which extends over a substantial portion of said top wall, said cover being adapted to be raised into a vertical position to uncover the aperture in the top wall for exposure of the contents of the tray, said cover being separated by fold lines into first, second, and third panels, said first panel being the portion of the cover that is hinged to the rear wall of the tray and to the second panel, the third panel being in turn folded into juxtaposition to the second panel, so that, when the cover is used for display purposes, the second and third panels extend vertically and the first panel extends rearwardly and downwardly at an angle to them and acts as a bracing means, said third panel being somewhat longer than said second panel and having its free end slotted at its opposed edges to form tabs for embracing the edges of the aperture, and securing means holding said second and third panels in face-to-face contact.

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**2,649,196**
**PACKAGED FERTILIZER ELEMENTS**
**Louis Wayne Arny, Wayne, and Henry W. Stevens, Phoenixville, Pa.**
**No Drawing. Application July 18, 1949, Serial No. 105,450**
**1 Claim. (Cl. 206—46)**

A package comprising: the charge of a mixture of soil replenishing elements, said elements comprising soluble compounds of one or more of copper, boron, zinc, manganese and iron, and a container for said charge, said container comprising an inner imperforate moisture-pervious ply and an outer perforated moisture-resistant ply, said package being formed with a broad major surface and being relatively thin in the direction normal to said surface.

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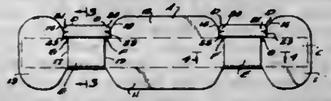
**2,649,197**
**CONTAINER PACKAGE STRUCTURE**
**William Jameson, Miami, Fla.**
**Application June 22, 1951, Serial No. 233,130**
**3 Claims. (Cl. 206—47)**



3. A container package structure, comprising a plurality of containers in nested relation, certain of the containers having a body of material in the bottom thereof and at least one of said containers having a peripheral bead at its top abutting the wall of a container nested therein, and a seal material between said bead and said wall of the nested container forming a frangible seal between said containers.

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**2,649,198**
**RIBBON HOLDING DEVICE AND THE LIKE**
**Charles Gross, Englewood, N. J.**
**Application March 15, 1951, Serial No. 215,683**
**1 Claim. (Cl. 206—51)**



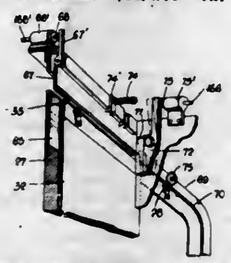
A wrapper for ribbon hanks comprising an elongated base having a rectangular enlarged central base portion and laterally and outwardly extending enlarged end wing portions with intermediate narrow bridges connecting said wing portions to the sides of the base portion and upwardly extending elongated locking tongues, the inside and lower ends of which are integral with the bridges, extending transversely away from said bridge portions and having end slitted locking projections to wrap around the hank and engage the side edges of said base portion and said wing portions and to lock the ends of the tongues in wrapped-around position and to hold the hank in position.

**2,649,199**
**HYGIENIC PACKING FOR DRESSINGS AND THE LIKE**
Jacques Werman, Antwerp, Belgium
Application August 14, 1950, Serial No. 179,315
In Belgium September 10, 1949
3 Claims. (Cl. 206—63.2)



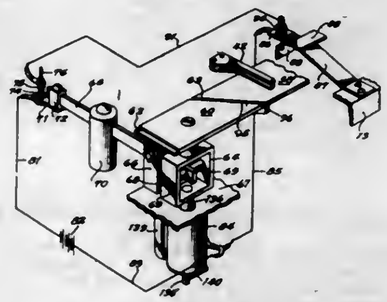
1. A hygienic packing for a dressing and the like, said packing comprising, in combination, a continuous sheath having substantially the same length and width as the dressing, and a plurality of flaps having longitudinal edges attached to a surface of said sheath and extending at equal distances to each other and transversely to said sheath, the width of each flap being substantially greater than the thickness of the packing, whereby each flap may be turned down to close an edge of the packing located adjacent the flap.

**2,649,200**
**MACHINE FOR RACKING CHANNELLIKE DEVICES**
Louis H. Morin, Bronx, N. Y.
Application October 7, 1948, Serial No. 53,255
18 Claims. (Cl. 209—72)



1. In a machine for delivering objects having different surface characteristics on their front and back faces in a uniform manner to a discharge point where each article is delivered in a uniform position, the combination which includes a hopper containing a supply of said articles, a reciprocable blade mounted in the hopper, said blade being reciprocable between a position in said hopper where the blade engages with and picks up articles in the hopper at random and an upper position, a stripper positioned adjacent one side of said blade at said upper position, means for moving said stripper into engagement with the surfaces of articles facing in one direction on said blade, the stripper lifting the articles facing in said one direction from the blade upon movement of the blade downward from its upper position, a delivery chute, said chute having one end thereof adjoining one end of said blade at a point intermediate the upper and lower positions of the blade for receiving articles facing in a second direction from the blade, a discharge gate located between the end of the blade and the delivery chute, and means for opening said discharge gate upon downward movement of the blade.

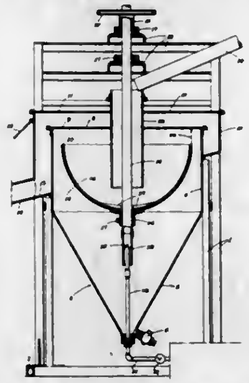
**2,649,201**
**MEANS OF SORTING OBJECTS BY THEIR WEIGHT**
Albert Horner, Kapaa, Territory of Hawaii, assignor to Hawaiian Canneries Company, Limited, Kapaa, Kauai County, Territory of Hawaii, a corporation of Hawaii
Application September 6, 1947, Serial No. 772,545
3 Claims. (Cl. 209—121)



1. A machine for classifying articles by weight, comprising a trackway along which articles are advanced in a predetermined direction of travel, a scale unit including a normally elevated depressible platform constituting a co-planar section of said trackway, a conveyor for propelling articles along said trackway and over said platform, means for driving said conveyor, the edge of said trackway at the far side of said platform being inclined relative to the direction of travel of the articles along said trackway whereby a depression of said platform causes an article being propelled thereover to engage said inclined edge for lateral diversion from the trackway, power means actuated by an initial slight depression of said platform by the weight of an article advanced thereon by said conveyor to accelerate further depression of the platform and to hold said platform in a depressed position to insure the diversion of said article from said trackway, and means actuated by said conveyor driving means after the lateral diversion of the article from said platform for releasing said power means to permit return of said platform to elevated position.

**2,649,202**
**CONCENTRATOR**
Allan E. Jones, Sacramento, Calif.
Application June 5, 1951, Serial No. 229,980
8 Claims. (Cl. 209—159)

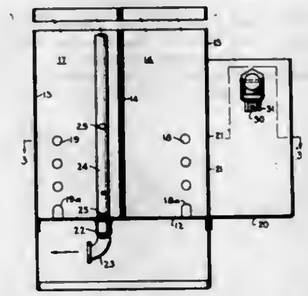
1. A concentrator comprising a frame-supported tank circular in plan at the upper portion, a vertical-axis centrifugal bowl, means mounting the bowl concentrically and for rotation in the tank, the bowl at its upper edge being circular, of less diameter than said upper portion of the tank, and said edge running in a plane below the corresponding edge of said tank; a top plate on the tank having a central circular opening therein, means to feed ore pulp into the bowl from above, a launder surrounding the upper portion of the tank in position to receive overflow from said opening; the bowl mounting means including means to adjust said bowl vertically whereby to alter the spacing between the upper edge of the bowl and the top plate on the tank, the opening in the top plate being of less diameter than the bowl at its upper edge, and



means to feed water into the tank with an upflow from below the bowl.



**2,649,203**
**METHOD AND APPARATUS FOR DISSOLVING SOLUTES IN LIQUIDS**
Lester S. Hannibal, Concord, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 22, 1949, Serial No. 111,646
11 Claims. (Cl. 210—30)



7. A liquid dosing device for continuously dissolving a solid solute material in a stream of liquid comprising a vessel vented to the atmosphere and having a bottom and side walls forming a dosing chamber adapted to contain solid solute material throughout a substantial height above the bottom thereof; an inlet for admitting said stream of liquid into the dosing chamber; an outlet means including one or more restricted passageways situated at levels to pass liquid at different levels above said bottom of the dosing chamber and beneath the top of said solute material, at least one of said passageways being situated substantially at the bottom of said chamber, whereby progressively higher parts of said outlet means become cumulatively effective to discharge liquid as the said liquid level in the chamber rises, to maintain in said chamber a liquid level above said bottom that rises with the rate of flow of said stream, whereby solid solute material in said chamber will be wetted to an increased height as the rate of flow of said stream increases.

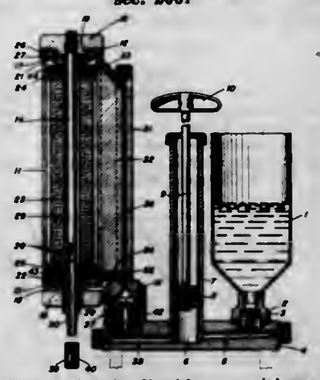


**2,649,204**
**COMBINATION SEDIMENT CUP AND DRAIN PLUG FOR INTERNAL-COMBUSTION ENGINES**
James M. Brier, Jr., Topeka, Kans.
Application November 27, 1950, Serial No. 197,821
4 Claims. (Cl. 210—57)



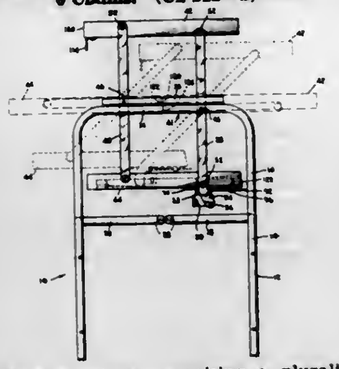
1. A combination sediment cup and oil drain plug for an internal combustion engine comprising a hollow, cup-shaped body provided with a flat top wall and a bottom wall, each having a hole therein; an elongated, straight, vertical tube separable from the body, extending through said holes and having a number of perforations placing the same into communication with the interior of the body, one end of the tube extending above said top wall and having external screw threads adapting the same for attachment to said engine; and an out-turned flange secured to the tube at the opposite end thereof exteriorly of the body for holding the latter against displacement in one direction relative to the body, said flange being provided with wrench-receiving flats.

**2,649,205**
**SPEED FILTER**
David H. Quinn, Brookline, Mass., assignor to Quinn Products, Inc., Boston, Mass., a corporation of Massachusetts
Application April 13, 1945, Serial No. 20,819
5 Claims. (Cl. 210—114)
(Granted under Title 35, U. S. Code (1952), sec. 266)



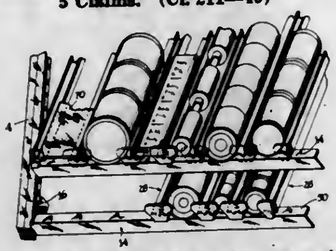
1. A filter casing for liquids comprising a tubular casing, a tubular filter inside said casing and displaced therefrom to form a receiving chamber for unfiltered liquid, an inlet to said chamber, seals for the ends of said filter, a first casing cap at one end of said casing, a tie rod extending through said cap and casing having a radial, impervious seal support inside the casing end opposite from the first cap, a second casing cap external to said rod seal support and penetrated by said tie rod, said tie rod being hollowed at the second cap end to form a conduit between the filter interior and the casing exterior, end nuts on said tie rod for binding the caps to the casing and the seals to the filter, and a cap for closing the tube end to said tie rod, whereby on assembly the filter may be first sterilized and then inserted in the casing without contamination.

**2,649,206**
**TABLE HAVING ADJUSTABLE TOP SECTIONS**
**Fredric Arnold, Roslyn Heights, N. Y.**
**Application November 28, 1950, Serial No. 198,009**
**6 Claims. (Cl. 211—2)**



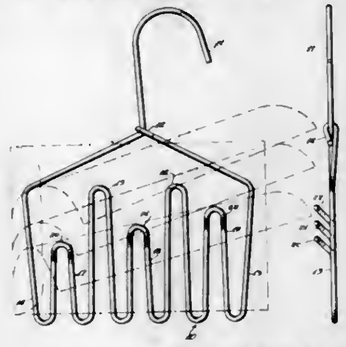
1. Table structure comprising a plurality of table top sections, uprights for the table structure, a pair of arms pivotally mounted on the uprights at each end of the table structure and pivotally connected with the sections so that the arms are substantially parallel, a member pivotally mounted on one of the sections, means on an arm and the member for interengagement to lock the section in a position to which the sections have been adjusted, and means for releasing the retaining means, the releasing means including means for holding the sections against separation when the sections are positioned immediately adjacent each other.

**2,649,207**
**DISPLAY AND DELIVERY DEVICE**
**Lansing P. Shield, New York, N. Y., assignor to The Grand Union Company, East Paterson, N. J., a corporation of Delaware**
**Application May 7, 1949, Serial No. 92,015**
**5 Claims. (Cl. 211—49)**



1. A display and delivery stand comprising a framework, a horizontally extending shelf support secured to said framework adjacent the front of said stand, another horizontally extending shelf support secured to said framework adjacent the rear of the stand at a higher elevation than the front shelf support, a shelf mounted on said supports embodying a plurality of track members each provided with a central divider in the form of a vertically projecting fin provided along its lower edges with oppositely and upwardly extending spacing portions extending longitudinally on opposite sides of said central divider, and means adjacent the front ends of said tracks for retaining articles in place thereon.

**2,649,208**
**PAPER FORM HOLDER**
**Glenn C. Wilson, Oak Park, Ill.**
**Application March 28, 1950, Serial No. 152,285**
**3 Claims. (Cl. 211—119)**



1. A paper forms holder comprising a plurality of vertically disposed, laterally spaced relatively high fingers forming a back wall, a plurality of vertically disposed laterally spaced generally shorter fingers lying in the same plane as the back wall fingers and individually interfitting between adjacent back wall fingers and forming a front wall, the bottoms of all of said fingers being on a horizontal level, and said front wall fingers being of gradually increasing height from one side of the forms holder to the other.

**2,649,209**
**MOVABLE SKYLINE TERMINAL**
**John Shaw Wilson, Vancouver, British Columbia, Canada**
**Application March 27, 1950, Serial No. 152,073**
**9 Claims. (Cl. 212—92)**



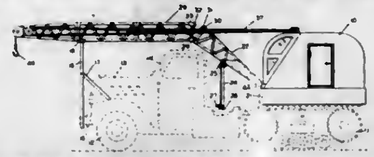
1. A movable skyline terminal for removably holding in a desired position a skyline carriage through which a load line from a winch mechanism extends, comprising a frame, means on the frame for clamping the terminal on a skyline, a locking arm movably mounted on the frame, means connected to the arm for operating the clamping means upon movement of said arm, and means on said arm engageable by a load line from a carriage on the skyline for moving the arm, whereby the load line may be used to move the arm to operate the clamping means.

**2,649,210**
**FOLDING BOOM CRANE COMBINATION**
**Anthony Marchese, Milwaukee, Wis.**
**Application August 9, 1949, Serial No. 109,399**
**1 Claim. (Cl. 212—144)**

A derrick construction of the character described to be hingedly attached at its lower end to an actuating means mounted on a conveyance,



said derrick comprising, a sectional boom having an upper and a lower portion hingedly attached to one another, a vertical support extending upward from said conveyance for suspending the upper portion of the boom in a horizontal position when said boom is inoperative, said lower portion of said boom hingedly supported at its lower end to said conveyance, a support member



hingedly attached to the lower portion of said boom, an engaging member mounted on said conveyance for supporting the lower depending end of said hingedly attached support member, and retaining means on said upper and lower portions of said boom at their point of engagement, for retaining both of said portions in longitudinal alignment with one another when said boom is in an operating position.

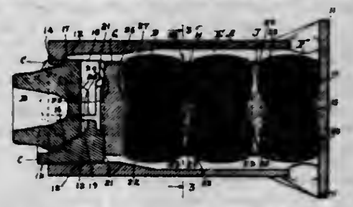
**2,649,211**
**HORIZONTAL BOOM SWIVEL DEVICE FOR LOCOMOTIVE CRANES**
**Claude L. Fero, Stoneham, Mass.**
**Application August 23, 1951, Serial No. 243,277**
**5 Claims. (Cl. 212—144)**



1. Apparatus for transporting a crane on a carrier composed of two separate mobile chassis articulatably connected in tandem in which the body of the crane is positioned on one of said mobile chassis and the outer end of the crane boom is positioned on the other of said mobile chassis, said apparatus comprising a crane housing on one mobile chassis, a boom, means for pivotally connecting the inner end of said boom to the said crane housing for swinging about a vertical axis, a support mounted on the other mobile chassis, a plate pivotally mounted on said support for see-saw action about a horizontal axis, said plate supporting the outer end of said boom whereby during transportation of said crane along a curved path, said boom pivots on said vertical axis and slides on said support plate to thereby prevent said boom from fouling adjacent paths of transportation.

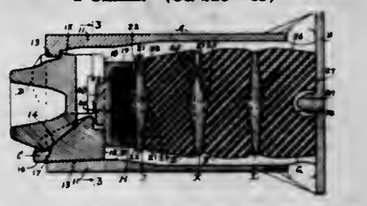
**2,649,212**
**FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS**
**William E. Withall, Hinsdale, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application April 27, 1949, Serial No. 89,966**
**1 Claim. (Cl. 213—45)**

A shock absorbing unit comprising a plurality of solid rubber blocks arranged in series and a plurality of rigid spacing members alternated with said blocks, said blocks having central, tapered depressions in the front and rear sides thereof surrounded by flat surface portions, and said spacing members having outwardly tapered, central projections seated in the depressions of said blocks and flat surface portions surrounding said projections, said last named flat surface



portions bearing on said first named flat surface portions.

**2,649,213**
**FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY DRAFT RIGGINGS**
**William E. Withall, Hinsdale, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware**
**Application April 30, 1949, Serial No. 90,652**
**1 Claim. (Cl. 213—45)**

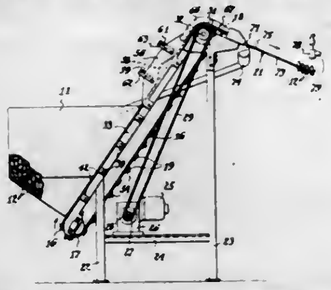


In a shock absorbing mechanism, the combination with a casing open at its front end; of a pressure transmitting member slidingly telescoped within said open end of the casing; yielding means within the casing opposing inward movement of said member, said yielding means including a plurality of rubber blocks arranged in series, and spacing plates alternated with said blocks; and a cup-shaped cap in which the first named block of said series is seated, said cap having an annular side wall completely surrounding said first named block, and a centering projection engaged with said member, the opening defined by said annular side wall of said cap being of such size that said annular wall limits lateral expansion of said first named block.

**2,649,214**
**AUTOMATIC GLASS BULB FEED**
**Joseph J. Kirby, North Arlington, and Michael E. McGowan, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application April 3, 1952, Serial No. 280,334**
**10 Claims. (Cl. 214—8)**

1. An automatic conveyor for orienting the axes of and feeding open flared-neck lamp bulbs, in which the maximum bulb diameter is greater than the maximum neck diameter, to a gravity track on which they stand upright, comprising a sheet metal hopper, an inclined side wall of which is formed with a slit, frame members with rigidifying slotted flanges depending on opposite sides of said slit, a pair of sprocket wheels, continuous sprocket chains passing over said wheels and with parts of their upper sections underlying said slit, a channel member closing said slit and supporting said upper chain sections, rails secured to the upper surface of the web of said channel member for guiding said chains, the flanges of

said channel member depending between said slotted flanges, studs extending outwardly from said channel member flanges and received in said slots, nuts on said studs holding said channel member in adjusted position with respect to said wall, lugs carried by said chains and extending through said slit for engaging bulbs in said hopper, the lugs on one chain being spaced from those on the other a distance greater than the bulb neck diameter but less than the maximum bulb diameter, so that they serve to carry said bulbs therewith, certain of said lugs being extended to a greater height than others so as to agitate the bulbs in said hopper, means for removing bulbs which lie crossways of said chains comprising ramps, one on either side of said chains, to engage the ends of such bulbs and raise them from said lugs, swingable gates disposed above and transverse of said chains so as to sweep bulbs therefrom which lie other than flat thereon, gravity-feed rails, spaced to allow the bulb necks

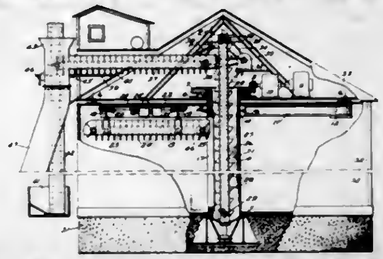


to drop therebetween and catch said bulbs adjacent their portions of maximum diameter, positioned to receive bulbs discharged from the upper ends of said chains and deliver them closed ends up to a position where they may be picked up and transported to a sealing machine, one of said rails having an interruption intermediate its ends so that when the lower rail portions are filled with bulbs, another bulb when stopped will drop through said interruption, the higher rail section of said interrupted rail being inclined less than the corresponding portion of the other rail so as to assist a bulb in motion to jump across the interruption to the lower section of the interrupted rail, the upper end portion of said section for the same purpose being curved downward, a chute beneath said curved upper end portion for directing such overflow bulbs by gravity back to the hopper, and power means for driving said wheels to cause the chains to carry bulbs out of the hopper and deliver them to said gravity-feed rails.

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**2,649,215**
**SILO CHARGING AND EMPTYING MACHINE**
**John Dickson, Portland, Oreg., assignor of one-half to William J. Prendergast, Jr., Portland, Oreg.**
**Application June 26, 1950, Serial No. 170,303**
**12 Claims. (Cl. 214—17)**

1. Filling and emptying means for cylindrical tank silo structures, comprising a tubular metal well rotatively mounted axially within said tank, said well formed with a continuous delivery slot longitudinally in one side thereof from top to bottom of the working length thereof, a non-revolving conveyor truss mounted coaxially within said tube, a double reach conveyor belt on said truss, a movable conveyor boom slidably attached to said tubular metal well, being mounted to traverse said delivery slot longitudinally and to revolve with said well, an independent conveyor mounted on said boom, radially with respect to



said tank, motor means for selectively driving said last named conveyor when discharging silage from the tank to move tank contents through said slot to deliver the same to said first named conveyor.

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**2,649,216**
**MATERIAL COLLECTING VEHICLE**
**Cyril B. Gollnick, Oshkosh, Wis., assignor to Leach Company, Oshkosh, Wis., a corporation of Wisconsin**
**Application April 7, 1949, Serial No. 85,991**
**18 Claims. (Cl. 214—83.3)**



1. In a material collecting vehicle, a storage body, a loading hopper at the rear end of the body having a forwardly and upwardly inclined bottom in communication with the body, a carrier bracket pivotally mounted above the hopper, a packer plate pivotally suspended from the free end of the bracket, power means connected with the plate below its point of suspension for moving the plate forwardly and rearwardly, said power means also serving to lower the plate and the free end of the bracket to bring the plate into proximity to the bottom of the hopper at the beginning of the forward movement of the plate, whereby to cause the plate upon being moved forwardly in said lowered position to move material in the bottom of the hopper into the body, means for raising the plate and the free end of the bracket in general conformity with the inclination of the bottom of the hopper during the latter part of the forward movement of the plate, and means acting on the bracket to maintain the plate and the free end of the bracket in their raised positions during the rearward movement of the plate, whereby to cause the plate in moving rearwardly to pass over any material in the hopper.

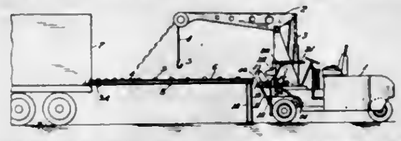
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**2,649,217**
**LOADING APPARATUS**
**Edward J. Mertes, Chicago, Ill., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 15, 1949, Serial No. 127,415**
**4 Claims. (Cl. 214—350)**

1. Apparatus for loading material comprising in combination a conveyor table provided with supporting means at one end thereof, a tractor provided with an elevated forwardly projecting



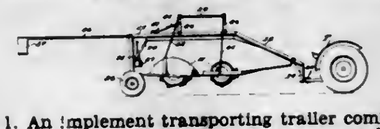
boom, a hoist cable adapted to operate over this boom and terminating in first means for engaging the conveyor table at a point intermediate its ends, a forwardly and upwardly projecting arm provided at its upper end with second means for engaging the conveyor table at its supported end and pivoted at its lower end to the front of



the tractor for movement in a vertical plane whereby the conveyor table is lifted, and means for yieldably positioning the forwardly projecting arm on the tractor adapted to bring about self-adjusting engagement of the second means for engaging the conveyor table with the conveyor table when the tractor and conveyor table are brought together.

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**2,649,218**
**HYDRAULIC ELEVATING AND TRANSPORT TRAILER**
**Alfred A. Timlin, De Land, Fla.**
**Application December 19, 1951, Serial No. 262,463**
**3 Claims. (Cl. 214—394)**

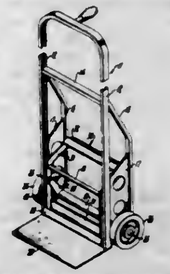


1. An implement transporting trailer comprising an elongated frame including an upper horizontal tubular member, a pair of legs having their upper ends rigidly connected to said tubular member adjacent one end thereof, said legs diverging downwardly from said tubular member, a pair of supporting wheels carried by the lower ends of said legs, said frame further including a downwardly inclined portion extending from the other end of said tubular member and a relatively short vertical portion rigid with and depending from the lower end of said downwardly inclined portion, a hitch plate carried by said vertical portion, implement elevating means comprising a pair of parallel arms having corresponding ends thereof pivotally connected to said tubular member at longitudinally spaced points intermediate the ends thereof, the opposite ends of the arms being pivotally connected by a bar disposed parallel with said tubular member, automatic power means supported by said tubular member and operatively engaged with one of said arms for moving both arms jointly in a vertical plane toward and away from said tubular member, implement engaging chains carried by said opposite ends of the arms, and balancing means comprising an elongated cylindrical bar telescopically adjustable within said tubular member and projecting from said one end thereof and a relatively large counterbalance weight on the outer end of said bar.

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**2,649,219**
**HAND TRUCK**
**Adolph Nielsen, Oakland, Calif.**
**Application December 18, 1950, Serial No. 201,433**
**3 Claims. (Cl. 214—511)**

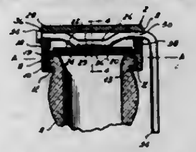
1. A hand truck comprising, a frame having wheels supported at one end of the frame by an axle, a platform for the frame, means for pushing a load off the platform including a lever comprising transversely spaced side members joined at one end by a transversely extending foot bar and at the other set of ends by a pushoff bar, means supporting the lever including pivots hav-



ing rollers thereon received in vertical guides on the frame and arms swingable about the axle, said arms being pivoted to the side members of the lever intermediate the ends of the lever, and resilient means for urging the lever in one direction.

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**2,649,220**
**CONTAINER CLOSURE**
**Frederick A. Vastano, Glen Rock, N. J., and Karl Erickson, Millbury, and Robert R. St. Jean, Auburn, Mass., assignors, by direct and mesne assignments, of one-half to Alfred W. Vibber, Ridgewood, N. J., and one-half to said Vastano**
**Application May 24, 1949, Serial No. 95,088**
**6 Claims. (Cl. 215—40)**

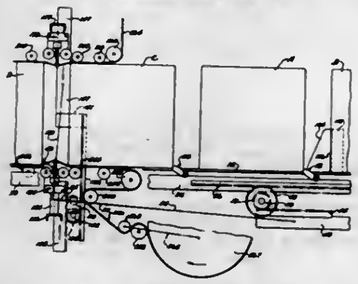


1. A cap for a bottle having a neck, an opening at the top of the neck, and a bead encircling the neck, comprising a main body in the form of an inverted cup having a portion adapted to overlie the upper end of the bottle neck, a depending skirt on the main body extending throughout at least slightly more than 160° around the neck, the skirt having an inwardly directed bead engaging flange thereon, the termini of the skirt being spaced sufficiently to allow the cap to be slid onto the bottle neck, said main body having a substantially flat inner upper surface lying normal to the vertical axis of the main body, a plunger in the form of a rigid disc mounted within the main body coaxially thereof for reciprocation toward and away from the opening in the bottle, sealing means in the form of a resilient disc spanning the hollow in the main body and the opening in the bottle and lying parallel to and generally in contact with the lower surface of the rigid disc, the edge of the resilient disc having frictional contact with the sidewall portion of the main body, a pair of diametrically opposed radial openings in the sidewalls of the main body immediately adjacent and substantially tangential to the margins of the inner upper surface of the main body, a wire member extending through said openings, said wire member having an offset portion lying in a plane and forming a cam cooperating with the rigid disc member generally

centrally thereof, the portions of the wire member on each side of the offset portion being straight and lying in contact with the upper inner surface of the main body, one end of the wire member outwardly of the sidewall of the main body being bent to lie in the plane of the offset and generally at a right angle to the main extent of the wire member within the main body, the outer surface of the offset portion of the wire member being flat and lying at a right angle to the plane containing the offset, the rigid disc being free of connection to either the cap main body or the cam and being loosely retained between the cam and the resilient disc.

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**2,649,221**
**TAPING MACHINE**
**Adolph A. Wagner, Arnold J. Werner, and John Tumpak, Milwaukee, Wis.; said Tumpak assignor to said Wagner and said Werner**
**Application August 30, 1951, Serial No. 244,444**
**5 Claims. (Cl. 216—22)**

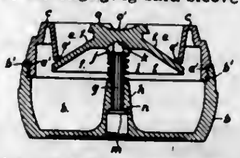


1. In a taping machine: an elongated fixed horizontal support adapted to have a plurality of spaced cartons slidably positioned thereon; a plurality of spaced carton advancing pawls longitudinally reciprocatably mounted adjacent said support in positions to advancingly engage said cartons; means for applying a longitudinal extent of tape to the tops of said cartons as they are moved along said support; a cutter head vertically reciprocatably mounted above said support, said cutter head being movable downwardly to sever the tape extending between the tops of a pair of adjacent cartons on said support and to apply the severed ends thereof to the adjacent end walls of said cartons; a source of power; mechanism drivingly connecting said source of power to said reciprocating carton advancing pawls to cause alternate advancing and retracting movement of said pawls; and mechanism drivingly connecting said source of power to said vertically reciprocating cutter head in a manner to move said cutter head downwardly into tape severing and applying position between a pair of adjacent cartons during retractile movement of said carton advancing pawls.

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**2,649,222**
**SMOKER'S ASH RECEPTACLE**
**Douglas Stuart Harwood, Hillside, Birkdale, England**
**Application December 20, 1950, Serial No. 201,725**
**In Great Britain February 9, 1950**
**4 Claims. (Cl. 220—20.5)**

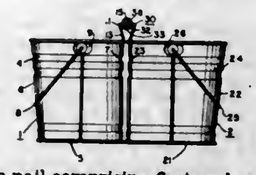
1. A smoker's ash receptacle comprising a container having detachable upper and lower sections being connected together by interengaging screw threaded portions, said upper section having an opening provided in the top thereof, a conical member positioned within said container for closing said opening, a sleeve formed integrally through the base of said container lower section and having a shoulder provided in the bore thereof, a rod slidably mounted through said sleeve and having a threaded upper end portion, said rod having a flange provided at the lower end thereof for engaging said sleeve shoulder for



limiting the upward movement of said rod, a hemi-spherical head having a threaded recess in threaded engagement with said rod threaded end portion, a helical spring positioned around said rod and between said head and said sleeve, said closure member having a recess provided in the underside thereof for slidably receiving said head therein whereby said closure is downwardly displaceable by hand against the influence of said spring and tiltable in any direction on said rod.

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**2,649,223**
**TWIN PAIL**
**George W. Todd, Bronxville, N. Y., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 8, 1952, Serial No. 275,631**
**3 Claims. (Cl. 220—23.4)**

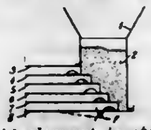


1. A twin pail comprising first and second pails each capable of independent use and each provided with an upstanding handle on the side thereof projecting above the rim thereof and including a horizontal member adapted to be grasped by the hand of the user, the horizontal member of the first pail handle being hollow, substantially cylindrical in shape and provided with an elongated opening in its lower surface, and the horizontal member of the second pail handle having a curved upper surface engaging and enclosing a lower surface portion of the first pail handle and provided with an upstanding projection fitting into the elongated opening of the first handle member and extending into the hollow interior of that handle member.

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**2,649,224**
**VIBRATORY DEVICE FOR CONTROLLING DISCHARGE FROM A HOPPER CONTAINING A POWDERED OR A SMALL-SIZE GRANULAR HOMOGENEOUS SUBSTANCE**
**Gérard Bardet, Paris, France**
**Application April 15, 1948, Serial No. 21,278**
**In France October 20, 1947**
**8 Claims. (Cl. 222—197)**

1. In a device for dispensing comminuted material, a downwardly opening discharge spout having a longer rear wall, shorter front wall and connecting side walls, a movable element for controlling the discharge of material from said spout, comprising a plurality of spaced, superposed parallel plates disposed approximately horizontally at the lower end of said spout and side walls connecting the plates, said plates being arranged in staircase-like fashion with the rear edges of a plate stepped forwardly from the rear edge of the plate below it, the rear edge portion of the lowermost plate extending rearwardly beyond the rear wall of said spout so as to close said

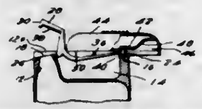


spout when said element is stationary and the rear edge of the uppermost plate extending under the front wall of the spout and into said spout but terminating short of the rear wall thereof, and means for vibrating said movable element with a rapid reciprocating movement in a direction forwardly-and-upwardly and rearwardly-and-downwardly relative to said plates to cause the material to be sliced off and to flow forwardly on said plates and be discharged from the forward edges thereof.

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**2,649,225**
**CONTAINER AND CAP THEREFOR**
**Frederic H. Jobson, Atlanta, Ga.**
**Application December 28, 1950, Serial No. 203,049**
**8 Claims. (Cl. 222—505)**



1. In a container having a discharge opening communicating with the interior thereof, a closure cap carried by the container for movement in a curved path into and out of sealing relation with said discharge opening, a slide member mounted on the container for movement in a path which intersects the curved path, an actuating arm carried by the closure cap, a fulcrum lug carried by the actuating arm for engagement with the container, an actuating lug carried by the arm and projecting into the path of movement of the slide member, and means on the slide member for engaging the actuating lug and moving the arm to move the sealing cap out of sealing relation with the discharge opening as the slide member moves out of the curved path.

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**2,649,226**
**SPOUT CAP**
**John L. Lay, Ogden, Pa., assignor to A. H. Wirz, Inc., Chester, Pa., a corporation of Pennsylvania**
**Application April 7, 1949, Serial No. 85,972**
**1 Claim. (Cl. 222—539)**



A spout closure comprising a cap having an end wall provided with a central opening and having an annular skirt provided with projections adapted to interlock with the threaded neck of a container, and a spout of polyethylene having a tubular spout body provided with an interior bore, said body having an integral disc at one end thereof making sealing engagement with the end wall of the cap in a position in which the spout extends inside the cap and also in a position in which the spout extends through the central opening outside the cap and having a resilient sealing flange extending radially outwardly from the disc around the circumference and making sealing engagement with the interior of the skirt of the cap.

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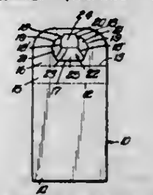
**2,649,227**
**CONTAINER FOR LIQUIDS AND SEMILIQUIDS**
**Harold Gar Vaughn, Warren, Ohio, assignor to The Ohio Corrugating Company, Warren, Ohio, a corporation of Ohio**
**Application March 23, 1951, Serial No. 217,160**
**8 Claims. (Cl. 222—539)**



1. A container having a discharge opening and a pouring spout therefor provided at one end with a flange, a closure for said discharge opening consisting of a collar mounted at its inner end therein and provided with screw threaded side walls, the outer end of said collar being provided with an outwardly extending circumferential wall the marginal portion of which provides a support for the flange of said spout, said wall downwardly of its marginal portion being embossed downwardly throughout its circumference to form an annular recess, a removable disk the marginal portion of which is embossed inwardly throughout its circumference to provide an annular wall having a pressed-in engagement with the inner walls of said recess to sealingly close said discharge opening, and an external closure device having an annular top wall and a side wall, said side wall being embossed to provide screw threads thereon removably threaded on the side wall of said collar and said top wall being arranged to removably engage said disk, said disk when engaged by said device serving to secure the flange of said spout on said support.

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**2,649,228**
**SHIRT PACKAGING DEVICE**
**William W. McFall, River Forest, Ill.**
**Application April 19, 1951, Serial No. 221,930**
**4 Claims. (Cl. 223—71)**



1. A two-part shirt packaging device comprising a paperboard rectangular sheet including an upper collar protecting panel having means to support the same in covering relation to the collar of a shirt, said panel being cut and creased

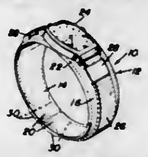
to provide an opening and a pair of laterally spaced tabs bendably connected thereto in adjoining relation to said opening and adapted to be deflected into the latter, and a forward bracing flap hingedly connected thereto in a zone adjacent the forward throat portion of the collar and between said tabs, said flap being subdivided into a strut portion immediately adjoining the hinge thereof and an extension hinged to said strut portion, said flap being swingable about its panel hinge to position said strut portion in said opening at a right angle to the panel, said extension engaging the shirt within said collar at a right angle to said strut portion to restrain the latter from displacement, and a locking element separate and distinct from said first named sheet and engageable with said collar to hold the same in place, said locking element extending over said bracing flap in operative position and having outwardly extending arms engaging beneath said panel when in operative position, said arms flexing outwardly against said tabs.

**2,649,229**
**GARMENT HANGER**
**Gladys Sutter, Culver City, Calif.**
**Application January 2, 1951, Serial No. 204,011**
**12 Claims. (Cl. 223—98)**



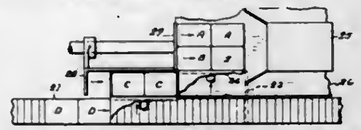
1. A one-piece, wrap-around cover for use with a conventional coat hanger, formed from a C-shaped blank of flexible sheet material the ends of which have been rotated 180° so that the center of the back of the C forms the center of the back of a collar support, the two ends of the C are connected behind said center, the top and the bottom of the C form wings flexed to form shoulder pieces, and the portions of the blank joining the shoulder pieces to the collar support are crossed to form the front of the collar support.

**2,649,230**
**ARM WATCH PROTECTOR**
**Joe V. Thompson, Baird, Tex.**
**Application May 28, 1951, Serial No. 228,641**
**1 Claim. (Cl. 224—4)**



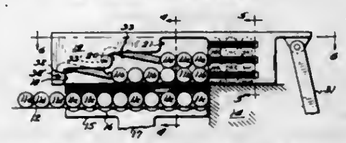
A wrist protector for a wrist watch including an annular band, said protector comprising an annular member of flexible material having abutting ends and including a relatively wide intermediate portion constituting a watch receiving platform, said member consisting of superposed inner and outer straps secured together at the edges thereof, the outer strap being provided at the opposite sides of and immediately adjacent to said platform with pairs of closely spaced parallel and transversely extending slits whereby portions of the outer strap between the slits in each pair define loops adapted to have a watch band threaded therethrough, the remaining portions of said outer strap being free of slits, pairs of transversely spaced and circumferentially extending tubular sockets provided on side edge portions of the outer strap at the abutting ends of said member, the sockets in each pair affording therebetween a watch band receiving groove, and a reinforcing rod positioned in each of said sockets, said sockets constituting sole means for sustaining a watch band against movement laterally of the abutting ends of said member.

**2,649,231**
**AUTOMATIC CASE LOADING METHOD AND APPARATUS**
**John L. Ferguson and Richard C. Talbot, Joliet, Ill., assignors to J. L. Ferguson Company, Joliet, Ill., a corporation of Illinois**
**Application December 22, 1948, Serial No. 66,604**
**25 Claims. (Cl. 226—14)**



1. In an automatic case loader a conveyor system for advancing in file articles to be packaged, first plunger means for removing a first group of consecutive articles of predetermined number from such file to a position adjacent thereto, second plunger means having a plunger face for moving said first group of articles parallel to such file to a loading zone, said conveyor system being effective to move a second group of consecutive articles, equal in number to said first group, to such loading zone adjacent such first group, means for restraining such second group from movement beyond such zone, and third plunger means for moving such first and second groups of articles as a unit laterally of such file, said second plunger means having another plunger face for advancing such first and second groups of articles longitudinally of such file into a container.

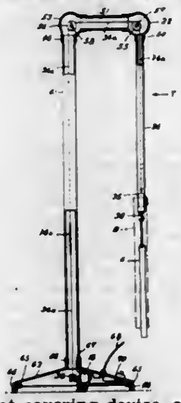
**2,649,232**
**METHOD AND APPARATUS FOR HANDLING ARTICLES**
**John L. Ferguson and Richard C. Talbot, Joliet, Ill., assignors to J. L. Ferguson Company, Joliet, Ill., a corporation of Illinois**
**Application January 21, 1950, Serial No. 139,921**
**10 Claims. (Cl. 226—14)**



1. Apparatus for arranging a predetermined number of uniformly shaped articles in a predetermined number of files and rows comprising; first conveyor means adapted to engage a portion of the surface of such articles for moving such articles into a horizontal line at an operating station; second conveyor means vertically movable past said first conveyor means to engage another portion of the surface of said articles and to move successive groups of articles of predetermined number upwardly from said operating station to a definite elevated position; and a loading plunger having a vertical forward wall and a stepped rearward wall for receiving and confining, in conjunction with said second conveyor means, such complete group of articles and a fractional portion of at least one preceding group displaced upwardly of said definite elevated position by movement of such complete group to said position by said second conveyor means, said loading plunger successively moving all of the articles so confined forwardly as a unit in a horizontal direction parallel to said line to displace an equal integral number of articles of said complete group and such fractional preceding group longitudinally beyond one extremity of said definite elevated position, said integral number being evenly divisible into said predetermined number of articles in said complete group.



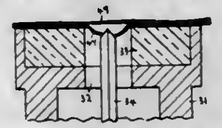
**2,649,233**
**GARMENT COVERING DEVICE WITH MOTOR-DRIVEN BAG CARRIER**
**Robert P. Ingraham, San Antonio, Tex.**
**Application June 17, 1947, Serial No. 755,270**
**1 Claim. (Cl. 226—18)**



In a garment covering device, a movable base, a hollow post rising from said base, a housing projecting laterally from the upper end of said post, a tubular guide member depending from the free end of said housing, said guide member having a slot disposed longitudinally thereof, a motor in said base and a reel operatively connected thereto, guide pulleys within said post and said housing, a flexible cable secured at one end to said reel and passing through said post over said guide pulleys and into said tubular guide, a carrier slidable within said tubular guide member and connected to said cable, a suspension member secured to the lower end of said tubular guide, and a clasp secured to said carrier and projecting laterally therefrom through said slot.

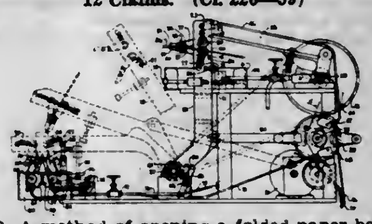
**2,649,234**
**AIRTIGHT PACKAGE**
**Gerald Taunton, Wells, Somerset, England, assignor to Wilts United Dairies Limited, Wiltshire, England, a British company**
**Application July 11, 1950, Serial No. 173,071**
**In Great Britain August 18, 1949**
**19 Claims. (Cl. 226—56)**

1. Apparatus for reducing the oxygen content of a flexible airtight sealed package comprising a suction member having an orifice therein against which the packaging material of the sealed package may be located, resilient fingers adapted to press on said packaging material to hold it in position, means for applying suction to said orifice, a piercing tool reciprocatable within said orifice to pierce an exhausting slit in said packaging material, sealing means for providing an airtight seal in said packaging material be-



tween said exhausting slit and the interior of the package, and an actuating lever which upon movement in one direction lifts said fingers to permit insertion of the packaging material and upon movement in the opposite direction allows said fingers to return to grip the packaging material and actuates in turn the suction means, the piercing tool and the sealing means.

**2,649,235**
**BAG OPENING PROCESS AND MACHINE, INCLUDING MOVABLE BAG OPENING ARMS**
**Harvey A. Edmonds, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois**
**Application November 1, 1949, Serial No. 124,807**
**12 Claims. (Cl. 226—59)**

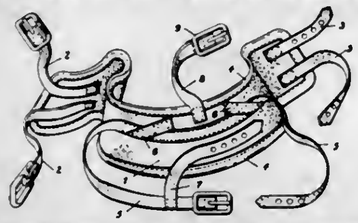


2. A method of opening a folded paper bag, or the like, said method including the steps of applying pressure to each side of the bag substantially across the width thereof a fraction of the length of the bag below the mouth thereof, said pressures each being toward the other to provide a seal across the bag, directing a jet of air at the mouth of the bag to spread the lips of the bag, inserting a pair of arms within the spread lips and moving the arms outwardly to further open the mouth of the bag, releasing said pressure, and continuing to move said arms outwardly to complete the opening of the bag.

**2,649,236**
**SAFETY BELT FOR CHILDREN**
**Archie J. Vaccari and Natalina M. Vaccari, Clairton, Pa.**
**Application April 21, 1950, Serial No. 157,266**
**1 Claim. (Cl. 227—49)**

A safety belt for children, comprising a band having a width not substantially less than the vertical dimension of an infant's abdomen, means adjacent to the upper and lower edges of the band, for adjustably connecting the ends of the band to form a band of required diameter, a holding strap of narrow width relative to the band, and secured to the rear side of the band at approximately the horizontal mid line of the band, for connection around a chair back, a suspending strap connected at one end to an upper rear

portion of the band in position to be laid over the upper edge of a chair back, a second suspending strap connected at its lower end to a rear portion of the narrow holding strap and connected at its upper end to the other end of the first-named suspending strap, and bracing strips secured at



their upper ends, to an upper portion of the said band, at points substantial distances from the second-named suspending strap, the bracing strips extending in downwardly-diverging directions relative to each other and secured at their lower ends to the said narrow holding strap.

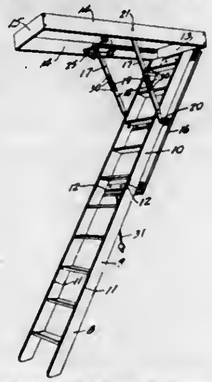
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**2,649,237**

## COUNTERBALANCE AND SUPPORT MEANS FOR CEILING-MOUNTED FOLDING STAIRWAYS

**Warren Bjorklund, South St. Paul, and Henry Kartarik, St. Paul, Minn., assignors to Minnesota Wood Specialties, Inc., St. Paul Park, Minn., a corporation of Minnesota**

**Application November 1, 1950, Serial No. 193,422**
**3 Claims. (Cl. 228—50)**



1. For a stairway having a hinge connection with a ceiling frame, said frame defining a ceiling opening into which the stairway may be retracted, improved actuating mechanism for the stairway comprising, a folding hanger adapted to oscillate in a substantially vertical plane and to be operatively connected to the stairway, means adapted to pivotally connect said hanger to said frame and defining a horizontal pivot axis, a lever member rigidly connected to and projecting laterally from said hanger near its pivot axis, said lever member extending crossways of said axis, a rigid link pivotally connected to said lever member and movable angularly relative to said lever member a stop projecting from said lever member and disposed to so limit angular movement of said link relative to said lever member as to cause said link to project as a rigid extension of said lever member during a portion of the angular movement of the stairway to and from retracted position and a helical spring operatively connected to said link to urge the stairway toward retracted position, the force exerted by said spring being reduced by angular movement of said link relative to said lever member when the stairway is in predetermined positions.

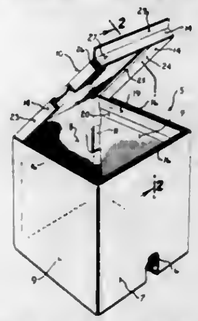
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**2,649,238**

## CONSUMER TYPE CONTAINER

**Lewis C. Brooks, Milwaukee, Wis., assignor of one-third to Ira Milton Jones, Milwaukee, Wis.**

**Application February 17, 1950, Serial No. 144,685**
**2 Claims. (Cl. 229—23)**



1. A consumer type container, comprising: front, back, side, bottom and top walls, the top and bottom walls being hinged to the back wall by folds and with the back wall constituting one integral blank; the front and side walls being hingedly connected by folds and together constituting another integral blank; means securing said blanks together along the side edges of the back and side walls; means securing the unhinged edges of the bottom wall to the adjacent edges of the front and side walls; and means for securing the unhinged edges of the top wall to the adjacent edges of the front and side walls, said means comprising downwardly directed flanges on the top wall providing tongues, and a plurality of parallel adjacent strips integral with the front and side walls and coextensive with the perimeter thereof, one of said strips being folded down from the top edges of the front and side walls to overlie the same, a second strip being folded up from the bottom edge of said first strip and overlying said first strip to provide grooves into which said tongues fit, and a third strip being folded down from the top of the second strip and overlying and adhered to the same and extending beyond the adjacent portion of the front and side walls and being adhered thereto.

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**2,649,239**

## SEALED CONTAINER

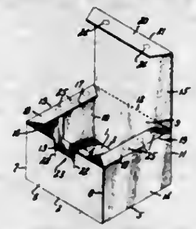
**Ransom C. Ellsworth, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio**

**Application May 8, 1950, Serial No. 160,714**
**1 Claim. (Cl. 229—33)**

In a paperboard container, a bottom, side wall and end wall members upstanding from said bottom, and a cover member hinged to the upper edge of one of said side wall members and carrying at its free edge opposite the hinge a continuous, unbroken, downwardly projecting tuck-in flap, the other side wall member being provided with spaced slits extending downwardly from its



upper edge a distance at least equal to the projection of the tuck-in flap and furnishing between them a tongue portion, said cover member being maintained in closed condition by sealing attachment of its tuck-in flap to said other



side wall member with a portion of said flap extended inwardly of and in face to face relation to said other side wall member and a portion engaged in said slits and overlying the outer face of said tongue portion.

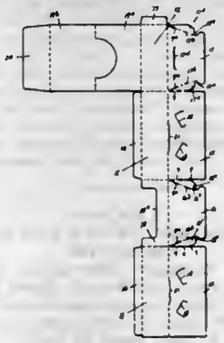
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**2,649,240**

## BLANK FOR BOX PRODUCTION

**Clyde L. Gilbert, Elkhart, Ind.**

**Application October 13, 1947, Serial No. 779,535**
**2 Claims. (Cl. 229—39)**



1. A blank for forming a collapsible box of paper stock, including an elongated series of alternate side and end wall sections joined at score lines, a glue flap extending outwardly from one of said sections as a continuation of the elongated series of alternate side and end wall sections to receive an application of glue for adhering it to the free end of the far section when said blank is formed into a collapsible tube for box erection, a second and adjoining elongated series of alternate bottom forming side and end flaps hingedly connected at a score line with said sections respectively, said bottom forming side flaps each having spaced tongue receiving slits, said tongue receiving slits being angularly related transversely of the direction of movement of said tongues in entering said slits, and terminating at each end thereof in inwardly directed slits extending at right angles thereto, the near end slits being of less length than the far end slits whereby the stock embraced by said slits will flex along a line extending at an angle to the tongue receiving slits, and opposed locking tongues notched from the free edges of said bottom forming end flaps respectively for registry and interlocking engagement with said slits when erected, said side and end flaps being severed throughout the greater portion of their adjoining edges, and wherein a creased score line extends at an angle to the partially severed line between said side and end flaps and within said end flaps from each inner corner thereof outwardly to the inner portion of each notched out locking tongue, forming a triangular web portion between adjacent side and end flaps, adapted to be bent on said angularly disposed score line upon said flaps being forced into interlocking position.

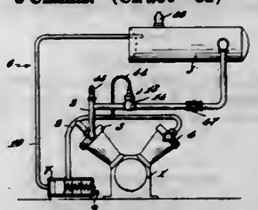
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**2,649,241**

## CONTROL VALVE FOR AIR COMPRESSOR SYSTEMS

**Malcolm J. Cady, Stoughton, Mass.**

**Application May 16, 1951, Serial No. 226,662**
**3 Claims. (Cl. 230—31)**



1. An air compressor system comprising a compressed air discharge conduit leading from a compressor to a receiver, a valve device operative to prevent the return flow of compressed air through said conduit from the receiver, said valve device comprising a valve seat in the conduit, a valve head movable to seated and unseated positions to close and open the conduit respectively, and normally held in unseated position by the pressure of compressed air delivered through the conduit from the compressor, and an air pressure chamber having a pressure responsive control means operatively connected to the valve head, means for admitting atmospheric pressure to said chamber while the compressor is delivering air to the receiver and for supplying compressed air from the receiver when the compressor ceases to deliver air, said control means being inactive so long as subjected to atmospheric pressure and being operative in response to the pressure of the compressed air from the receiver to seat the valve head, thereby to close the conduit.

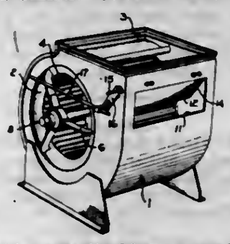
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**2,649,242**

## VARIABLE CAPACITY BLOWER

**El Roy L. Payne, Beverly Hills, Calif., assignor to Payne Beverly Manufacturing Co., Beverly Hills, Calif., a corporation of California**

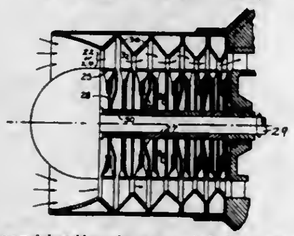
**Application June 30, 1951, Serial No. 234,551**
**2 Claims. (Cl. 230—114)**



1. A variable capacity blower construction for air heating and conditioning systems, compris-

ing: an air intake compartment, a duct separated from the air intake compartment, and a blower mounted in said air intake compartment and discharging into said duct, said blower comprising: a cylindrical cage-type rotor; a scroll shell enveloping said rotor and defining an axially directed intake communicating between said intake compartment and the interior of said rotor, and an outlet substantially tangent to said rotor isolated from said intake compartment and communicating with said duct; said shell having a bypass opening adjacent said outlet communicating with said intake compartment to permit recirculation of air from said inlet to said bypass opening and back to said intake compartment; and a gate hinged to a margin of said bypass opening and directed into the air stream issuing from said rotor to deflect a portion of the air stream into said intake compartment.

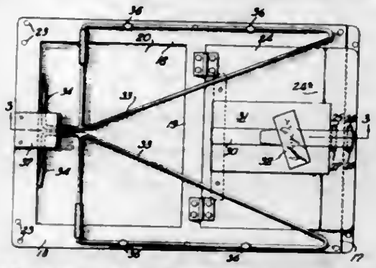
**2,649,243**
**AXIAL FLOW COMPRESSOR CONSTRUCTION**
**Edward A. Stalker, Bay City, Mich.**
**Application August 5, 1948, Serial No. 42,565**
**9 Claims. (Cl. 230—122)**



1. In combination in an axial flow elastic fluid compressor rotor of light weight for operation in an enclosing casing, a rotor disk of sheet metal, a plurality of peripherally spaced sheet metal blades having rounded leading edges and sharp trailing edges adapting said blades to operate at high tip speed to accelerate and diffuse efficiently fluid flowing between said blades in the general axial direction, each said blade having a sheet metal element extending radially inward to said disk and being fixed to a side surface thereof, a hub ring fixed to said disk at a locality substantially inward from the root ends of said blades, shaft means to apply torque to said hub ring to rotate said blades at a sufficiently high tip speed to increase substantially the pressure and density of said fluid flowing between said leading and trailing edges, sheet metal rim means having a generally cylindrical wall extending peripherally between blades and from leading to trailing edges of said blades at the root ends thereof to sustain the increase in said fluid pressure and density between said blades, said blades being fixed to said rim wall, and said rim means being permanently fixed to said hub ring to cooperate with said disk in transmitting said torque to said blades.

**2,649,244**
**COLLAPSIBLE BALLOT RECEPTACLE**
**Russel R. Miller, Silver Spring, Md.**
**Application September 1, 1950, Serial No. 182,698**
**3 Claims. (Cl. 232—2)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A collapsible ballot receptacle comprising an open mouthed flexible pouch having a stiff, flat, horizontally extending flange about its mouth; a slide having an opening for the passage of the pouch therethrough and having a marginal recess about said opening for removably receiving and supporting said flange; a slide receiving frame having grooves for slidably receiving said slide, said frame preventing removal of said pouch from said slide when in place therein, said frame having a ballot slot therethrough overlying the opening in the slide and the open mouth of the pouch when in place therein and having a cover plate hinged to said frame and in one position



overlying and closing said ballot slot; said cover plate and slide being provided with interengaging means for holding said slide in said frame in the closed position of said cover, said frame further having slidably mounted thereon supporting hook means in one position extending beyond the frame to engage over a drawer edge or the like, and in another position thereof lying flat on said frame and holding said hinged cover in closed position, and said frame comprising means for holding said slidable hook means in said last named position thereby holding said cover closed and said slide and pouch in the closed frame.

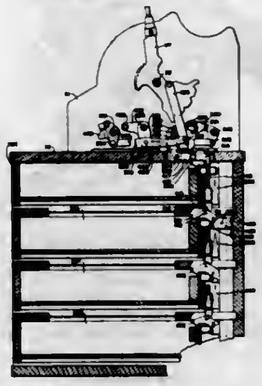
**2,649,245**
**CONCENTRATING VESSEL AND STOPPER THEREFOR**
**Karl Oskar Lennart Silverstolpe, Stockholm, Sweden, assignor to Rudolph Grave Aktiebolag, Stockholm, Sweden, a corporation of Sweden**
**Application April 22, 1948, Serial No. 22,676**
**In Italy April 24, 1947**
**1 Claim. (Cl. 233—26)**



A centrifuge tube or the like assembly comprising an elongated vessel having aligned upper and lower end openings and having a lower substantially cylindrical neck portion of reduced diameter, of the order of that of a drop of fluid, terminating in said lower end opening, an upper end opening stopper comprising a substantially cylindrical elongated resilient inner portion projecting through the upper end opening of said vessel and an outer portion of larger diameter than said inner portion, said outer portion forming a ledge surface for tightening against the edge of said vessel which forms the upper end opening thereof and preventing the stopper from being both inserted to more than a certain limit during the introduction and pressed further into the vessel during a centrifuging prodess, and a lower end opening stopper having a substantially cylindrical elongated resilient rubber-like inner portion projecting through the lower end opening into the lower necked portion of the vessel for a distance at least as great as is the diameter of said neck portion and in sliding engagement with a substantially peripheral inner surface of said neck portion, said cylindrical neck portion of reduced diameter having a substantially greater length than the length of the inner portion of said lower end opening stopper, and an outer portion of larger diameter than said inner portion, said outer portion forming a ledge surface for tightening against the edge of said vessel which forms said lower end opening thereof and having above its outer terminus an upwardly directed collar forming a catch basin around said inner portion, and said inner portion having an inner terminal face surface providing a concave recess within said portion, said concave recess forming in association with said neck portion a sample collecting, shaping and protecting pocket adapted to facilitate at occasional underpressure in the vessel air intake action while preventing dislodgement and dilution of a mass of sample disposed therein when said lower end opening stopper is withdrawn from said lower neck of the vessel.

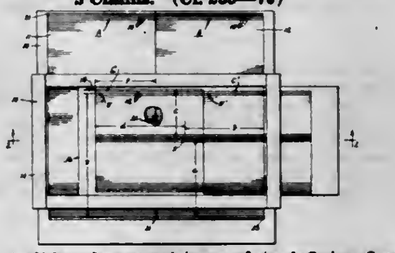


**2,649,246**
**CASH DRAWER MECHANISM**
**Edward R. Werner, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Original application August 25, 1948, Serial No. 45,184. Divided and this application December 22, 1950, Serial No. 134,553**
**4 Claims. (Cl. 235—22)**



3. In a machine of the class described, the combination of a plurality of cash drawers; a latch normally latching each cash drawer in inaccessible position; a plurality of latch-operating means, one of said latch-operating means connected to each latch, each operating means including a pivoted lever, said levers extending different lengths from their pivoted points; a differentially positionable operating member; a manually operable device connected to the operating member and movable to position the operating member adjacent a selected one of said levers; a power-operated means to move the operating member into contact with and thereafter operate the selected one of the levers whereby a selected drawer latch is actuated to release the selected drawer to render the drawer accessible; a manually-operable member adjacent all the levers; and cam means on the member to actuate all the levers upon manual operation of the member to actuate all said latches to simultaneously open all the cash drawers while the power-operated means is at rest.

**2,649,247**
**SLIDE RULE**
**George R. Stibitz, Burlington, Vt., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois**
**Application August 22, 1951, Serial No. 243,027**
**3 Claims. (Cl. 235—70)**

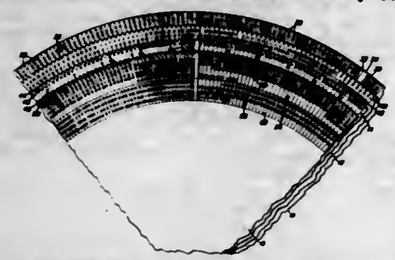


2. A slide rule comprising a plate defining first and second rectangular surfaces arranged in edge to edge relation, a frame overlying said surfaces and movable edgewise along a path paralleling the adjacent edges thereof, a slide mounted on said frame for endwise movement along a perpendicular path, an elongated product scale carried by said first surface, having numbers spaced therealong and from a predetermined reference point in accordance with the values of the logarithms of the numbers, said scale being divided into a plurality of parallel parts paralleling said second path, an elongated multiplier scale having numbers spaced therealong from said reference point distances corresponding to the logarithms of the numbers, said second scale being carried by said second surface and divided into a plurality of parallel parts paralleling said second path, each of said multiplier numbers being disposed on said plate within and on one side of a light area on said second surface, and a multiplicand scale on said slide having numbers spaced therealong from an index mark on said slide successive distances corresponding to the logarithms of such numbers, said third scale being divided into a plurality of parts paralleling said multiplier parts, each of said multiplicand numbers being disposed within and on a different side of a transparent window on said slide of a shape similar to said light area, whereby, when the window of a selected multiplicand is, by shifting of said frame and slide, superimposed upon the light area of a selected multiplier, the product will be disposed on said first surface opposite the index mark on said slide.

**2,649,248**
**CALCULATING CALENDAR**
**Otis Frank Bryant, Bismarck, N. Dak.**
**Application June 6, 1950, Serial No. 166,386**
**2 Claims. (Cl. 235—88)**

1. A time calculator comprising a plurality of superposed disks of progressively varying diam-

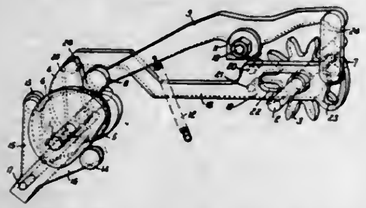
eter, a common fastener pivotally securing said disks in assembled and relatively rotatable relation, the margin of said disks being divided into equal angular intervals the periphery of the largest disc being smooth and the peripheries of the other discs being serrated to provide teeth, the intervals of one disk being registrable with selected portions of the intervals of every other



disk, the intervals upon the margin of the largest disk designating the days of the week throughout the year and the intervals upon the margin of the adjacent disk designating the months and days of a year, the indicia upon the margin of a disk interposed between the smallest disk and the disk adjacent to the largest disk designating the days and weeks of an elapsed time interval.

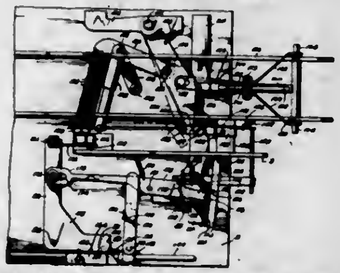
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**2,649,249**
**COUNTING MECHANISM**
**John Handley, Purley, England, assignor to The Union Totalisator Company, Limited, Glasgow, Scotland, a corporation of Great Britain**
**Application October 11, 1952, Serial No. 314,291**
**In Great Britain July 12, 1951**
**2 Claims. (Cl. 235—134)**



1. A mechanism for transferring stepwise impulses from a digital denominational shaft of lower order to one of higher order, comprising first cam means connected to rotate with said shaft of lower order, a toothed wheel capable of rotating said shaft of higher order, a spring-urged lever actuated by said first cam means, a pin engageable with said toothed wheel and linked to said lever, a reciprocatory guide link controlling said pin, second cam means rotated by said shaft of lower order, a Y-shaped cam-follower embracing and co-operating with said second cam means and connected to said guide link for reciprocating said guide link rapidly in opposite directions when said spring-urged lever is at predetermined positions near the beginning and the end of its operative travel, the conjoint effect of the spring-urged lever and the reciprocatory guide link being to impart a stepwise rotation to said toothed wheel to rotate the shaft of higher order when the shaft of lower order has been partially rotated through a predetermined angle.

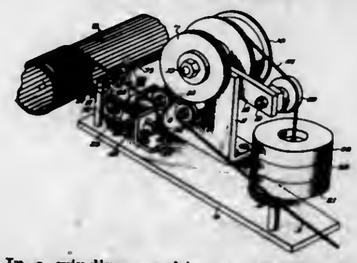
**2,649,250**
**CALCULATING MECHANISM**
**Charles A. Parker, Knoxville, Tenn., assignor to Rainey Accounting Machine Company, Inc., Knoxville, Tenn., a corporation of Tennessee**
**Application September 15, 1949, Serial No. 115,926**
**24 Claims. (Cl. 235—138)**



1. In a calculating machine, a spring operated tens transfer reset mechanism for returning to normal position all racks and rack rests moved therefrom in effecting transfers, an operating member for the machine, said reset mechanism being adapted for normal operation under control of the operating member, a control element movable to an actuated position to condition the machine for taking a total, means for latching said control element in actuated position, and means controlled by the latching means to effect operation of the reset mechanism independently of the operating member.

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**2,649,251**
**WINDING MACHINE**
**Carl H. Nordell, Palm Springs, Calif.**
**Application February 26, 1947, Serial No. 730,932**
**3 Claims. (Cl. 242—7)**



1. In a winding machine for winding a cord around a rotating spindle, a crowder shoe positioned adjacent said spindle, a rod projecting rearwardly from said crowder shoe, a bracket supporting the rear end of said rod, and a spring coiled around said rod between said bracket and said crowder shoe.

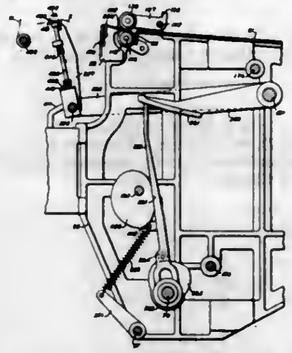
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**2,649,252**
**PAPER MEASURING AND DELIVERY MECHANISM FOR COIL WINDING MACHINES**
**Frederick P. Bohne, Salem Depot, N. H., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application May 31, 1950, Serial No. 165,342**
**3 Claims. (Cl. 242—10)**

1. In a machine for winding electrical coils having means to rotate a mandrel on which layers of convolutions of a conductor are wound and



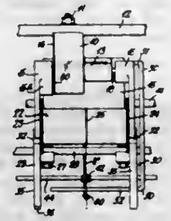
lengths of insulating material are to be cut by an intermittently operable cutting unit from a strip of the material advanced given distances at successive intervals relative to the cutting unit, a delivery shelf supported for movement from a receiving position, closely adjacent the cutting unit to a feeding position adjacent the mandrel, a clamping element extending transversely of the strip to engage the strip for the full width thereof, resilient means normally urging the clamping element toward the delivery shelf to cause the element to firmly hold the leading end of the strip against displacement on the delivery shelf, a mechanism operable to move the clamp-



ing element away from the shelf when in its receiving position and hold the element in this position until the leading end of the strip is fed to the delivery shelf, after which the said mechanism is operated to free the resilient means to close the clamping element on the strip, means operable to move the delivery shelf a known distance from the cutting unit to pull a given length of the strip beyond the cutting unit prior to the operation of the cutting unit, means to continue movement of the delivery shelf to the feeding position to feed the length of material to the mandrel, and a cam to cause movement of the clamping element free of the length of material as the delivery shelf approaches the feeding position.

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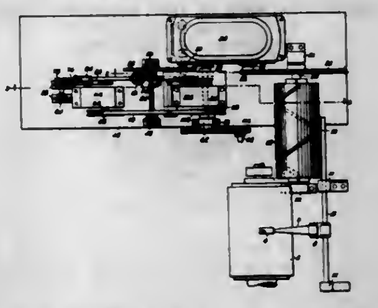
**2,649,253**
**BOBBIN HANGER**
**Dimitri G. Soussloff, Warwick, Arnold C. White, Greenwood, and Richard G. Hilbert, Smithfield, R. I., assignors to Universal Winding Company, Cranston, R. I., a corporation of Massachusetts**
**Application May 3, 1951, Serial No. 224,368**
**15 Claims. (Cl. 242—37)**



1. A bobbin hanger installation for winding machines, twisters, and the like, comprising a pivoted bracket adapted to rotatably carry a bobbin and adapted to be swung from an initial running position to a second or release position, driving means for rotating said bobbin in said initial position to cause yarn to be wound thereon, means for moving said bracket to said second position, a movable member operatively associated with said moving means for actuating said moving means and normally held against actuating movement by the yarn strand approaching the bobbin whereby upon breakage or exhaustion of said strand the bracket is moved to said second position, means effecting the release of the bobbin from the bracket upon arrival at said second position, guiding means along which said bobbin may roll from said second position to an exposed third position where it and its burden of yarn are readily accessible for examination, adjustment, and repair.

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**2,649,254**
**METHOD OF AND APPARATUS FOR WINDING YARN**
**Edward S. Balthrop, Jr., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application February 8, 1947, Serial No. 727,345**
**3 Claims. (Cl. 242—43)**



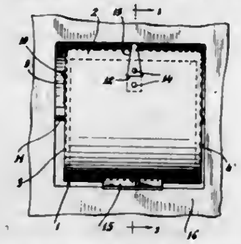
1. In a yarn-winding machine having a plurality of winding units, a ribbon breaker and a wind breaker with a common drive and a common oscillating traverse, the combination comprising means for imparting a short period of high intensity change in the oscillating action of said ribbon breaker; a second means for producing a change in the action of said wind breaker of approximately the same intensity as said ribbon breaker but of longer duration; and means to transmit the geometric addition of the change of said first means and the change of said second means to said traverse.

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**2,649,255**
**TOILET TISSUE COVER**
**Philip Smallen, Brooklyn, N. Y., assignor of one-half to Abraham Friedman, New York, N. Y.**
**Application April 12, 1949, Serial No. 86,899**
**4 Claims. (Cl. 242—55.2)**

4. A cover for a wall recess mounted toilet tissue roll having a center rod comprising a substantially semi-cylindrical shell having end walls axially aligned slots formed in said end walls adapted to rotatably receive said center rod, whereby said shell may be pivotally mounted thereon, a resilient element carried by said shell adjacent one edge thereof projecting from the surface of said shell and adapted to lock said roll against pivotal movement in one direction, a projection carried by said shell adjacent the other edge thereof and adapted to lock said roll

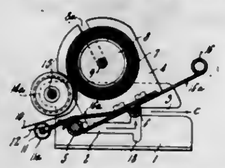
against pivotal movement in the opposite direction, said resilient element upon being actuated



adapted to permit the pivotal movement of said shell into the wall recess.

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**2,649,256**
**SUPPLY STAND FOR ADHESIVE STRIP MATERIAL**
**Johannes Skrebba, Lahr (Schwarzwald), Germany, assignor to Charles L. Tager, New York, N. Y.**
**Application April 15, 1952, Serial No. 282,315**
**In Germany April 16, 1951**
**3 Claims. (Cl. 242—55.2)**

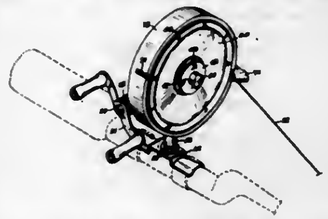


1. A device for holding a supply roll of reinforcing paper and like strip for use in connection with perforators comprising a carrier for receiving said supply roll, a handle plate for supporting said carrier and provided with spaced apart guide pins, a stand for receiving said carrier with said supply roll and provided with pairs of horizontal parallel slots and with a pair of vertical slots interconnecting said pairs of horizontal slots, said pins being insertable in said horizontal and vertical slots successively to thereby secure said carrier in position on said stand, and roll means, respectively, arranged on said handle plate and on one end of said stand and engageable with each other upon securing said carrier in said position on said stand whereby said strip from said supply roll may be fed through said roll means to said perforator.

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**2,649,257**
**FISHING REEL**
**Clyde Duffield Shelburne, Shelburn, Ind.**
**Application April 2, 1948, Serial No. 18,649**
**4 Claims. (Cl. 242—84.1)**

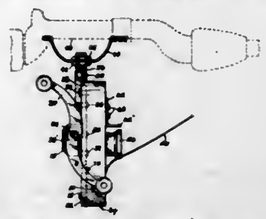
1. A spinner reel comprising a base, an axle journal mounted on said base, a spool mounted on said axle for rotation therewith, an annular member carried by said base, axially overlying the periphery of said spool, and radially spaced from said spool, a line wound on said spool and leading through the radial space between said member and the periphery of said spool, and a catch pin carried on said member and shiftable substantially radially of said spool into and out of a position bridging said radial space; and in which said base is in the form of a circular disc, said axle is concentric therewith, and said annular member has a friction-press fit upon the



periphery of said base for independent peripheral and axial adjustment relative to said base.

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**2,649,258**
**FISHING REEL**
**Clyde D. Shelburne, Shelburn, Ind.**
**Application May 11, 1949, Serial No. 92,610**
**6 Claims. (Cl. 242—84.1)**



1. In a device of the class described, a stationary drum adapted to retain a coil of line laid on a peripheral surface thereof, a guard element surrounding said drum and spaced radially from the periphery thereof to permit line to be stripped axially from said drum through the space between said drum and said guard element, a disc mounted within the axial extent of said guard element for rotation about the common axis of said drum and said guard element, having a radius somewhat less than that of said guard element, and being positioned beyond that end of said drum from which line may be so stripped, said disc being formed with a radial slot, a catch element, a finger piece, means projecting through said slot, guided therein for radial movement and connecting said catch element and finger piece with said catch element located on that side of said disc adjacent said drum and said finger piece located on that side of said disc remote from said drum, said catch element being shiftable radially into and out of bridging relation to the radial space between said disc and said guard element by radial movement of said finger piece.

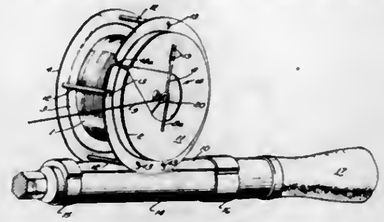
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**2,649,259**
**SPINNING AND FLY REEL**
**Martin T. Ulrich, Centerville, Calif.**
**Application June 15, 1949, Serial No. 99,161**
**1 Claim. (Cl. 242—84.6)**

A combined spinning and fly reel providing conventional fly reel action to the fishing line in recovery and similar action or spinning action in casting as desired, comprising a spool including a pair of spaced disks and an intermediate hub for carrying a fishing line, a shell having a pair of spaced, vertically extending walls, at least one of



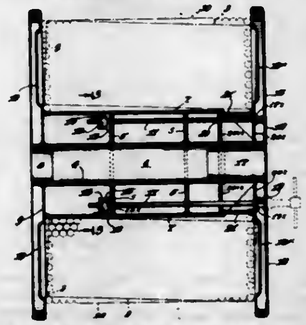
said walls being of a larger diameter than one of said disks and being disposed substantially immediately adjacent thereto and axially aligned therewith, and also a horizontally disposed wall joining the lower portions of said vertical walls and adapted to be removably mounted upon a fishing rod, said one of said walls being provided with a radial slot extending from a point opposite the axis of said hub through the margin of said wall, said slot being of decreasing width from said point opposite the hub axis to said wall margin, and a line guide supported by said latter wall



adjacent said slot and spaced from the disk of said spool opposite from said wall for guiding the successive loops of said fishing line off said spool and forwardly along the said rod in casting and to permit said line to return to normal tangential relation for rewinding upon said spool, said line guide including a substantially vertical portion secured at one end thereof to said one wall and spaced from the latter at the other end thereof, and an open looped portion intermediate the ends thereof through which said line may be selectively passed through and disengaged from.

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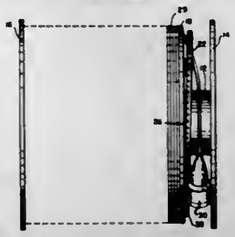
**2,649,260**
**FIELD REEL FOR CABLE COIL**
**Charles J. Beneke, Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware**
**Application May 26, 1950, Serial No. 164,391**
**2 Claims. (Cl. 242—115)**



1. A reel for aligning deranged cable coil thereon comprising a first header, an inner sleeve secured to said first header, a plurality of spaced-apart discs disposed about said sleeve and having a plurality of in-line apertures therein for passage of tie-rods therethrough, an outer cylindrical drum secured to the peripheries of said discs and to the said first header, a movable header, a cylindrical hub secured to said movable header and adapted to be adjustably moved into and out of said drum, said hub having a pair of spaced-apart discs integrally secured thereto and having a plurality of in-line apertures therein adapted to receive a plurality of tie-rods, and a plurality of tie-rods having threaded ends fitted through said discs of said first and said movable headers and means workably associated with said tie-rods to move said hub into said drum.

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**2,649,261**
**DEVICE FOR RETAINING REEL CONNECTORS**
**Cornelius E. Badik, Long Branch, and John J. Reilly, Jr., Irvington, N. J., assignors to the United States of America as represented by the Secretary of the Army**
**Application August 2, 1951, Serial No. 240,022**
**2 Claims. (Cl. 242—117)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A reel for supporting cable comprising two end plates, a core to which said end plates are secured, a first annular plate rigidly secured to said core and intermediate said end plates, said first annular plate having a slot extending from its periphery substantially to said core, a second annular plate about and spaced from said core and yieldingly secured to said first annular plate, said second annular plate having a slot which is in register with the slot of said first annular plate, said slots defining a passageway for said cable, said second annular plate being between said first annular plate and one of said end plates whereby the ends of said cable may be frictionally held between the said latter end plate and said second annular plate.

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**2,649,262**
**APPARATUS FOR REMOTE CONTROL BOMBING**
**Delmer S. Fahrney, United States Navy**
**Application October 24, 1945, Serial No. 624,279**
**1 Claim. (Cl. 244—3)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

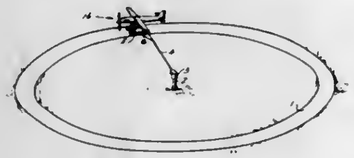


In a towed glider adapted to be controlled directly when towed and to be controlled remotely when in free gliding flight, the combination comprising adjustable control surfaces for controlling the attitude of the glider, means coupled to each of said surfaces for adjusting the position thereof, a towing cable for towing said glider, feeler means coupling said cable to the glider, means responsive to the attitude of said feeler means for actuating said adjusting means to maintain the glider in a predetermined position with respect to said cable when in towed flight, and radio remote control means for actuating

said adjusting means independently of said feeler responsive means, said remote control means including means responsive to a predetermined signal from a remote location for simultaneously releasing said tow cable, disabling said feeler responsive means and rendering said remote control means operable to actuate said adjusting means in response to other predetermined signals from said remote location.

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**2,649,263**
**ROTARY LAUNCHING SYSTEM AND APPARATUS FOR TARGET AIRCRAFT**
**Bernard Bayuk, Dayton, Ohio**
**Application March 13, 1951, Serial No. 215,369**
**4 Claims. (Cl. 244—63)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

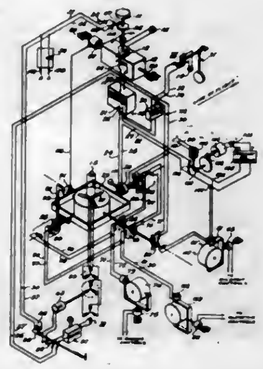


1. A rotary launching apparatus for a radio controlled target airplane having a power plant for its propulsion comprising; an annular circular flat track; a four wheeled carriage disposed on the track and arranged for circular movement about the center of the track, said carriage having a pair of cradle members thereon for supporting the target airplane in a neutral flight attitude above the surface of the circular track at points fore and aft of the airplane's center of gravity; a pylon at the center of the circular track, a tethering cable secured at one end to the pylon and a branch cable connected at one end to the tethering cable at its other end to the carriage; a releasable connection carried by the outer end of the tethering cable releasably connectible to the end of the target airplane wing nearest to the pylon with slack out of the tethering cable when the target airplane is mounted in said cradle; and remote controlled release means connected to said releasable connection, for actuating the said releasable connection to release the airplane wing from the tethering cable during movement of the carriage on the annular track about the pylon.

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**2,649,264**
**FLIGHT CONTROL SYSTEM**
**John M. Slater, Garden City, N. Y., and Walter Wrigley, Wollaston, Mass., assignors to The Sperry Corporation, a corporation of Delaware**
**Application March 15, 1947, Serial No. 734,922**
**34 Claims. (Cl. 244—77)**

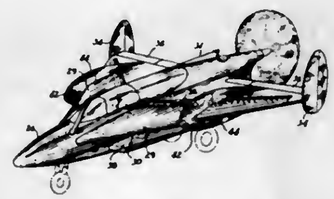
1. An automatic flight control apparatus for dirigible craft having signal responsive devices for supplying control moments thereto, said apparatus comprising means for producing control signals dependent upon craft deviation from a predetermined attitude, inertial angular-movement-responsive means for producing control signals dependent on angular movement about the primary craft axes, means for modifying said produced control signals to effect predetermined craft angle of elevation, means for further modifying said produced control signals in accordance with measures of craft rate of turn and craft bank angle, said last mentioned means including a computing mechanism for determining one of



said measures from a predetermined value of the other of said measures.

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**2,649,265**
**AIRPLANE WITH STABILIZING FINS**
**Charles H. Grant, New Rochelle, N. Y.**
**Application July 30, 1948, Serial No. 41,602**
**2 Claims. (Cl. 244—91)**



1. In aircraft which has wings comprising cambered lifting surfaces with swept-back leading edges and a chord that decreases from the roots to the tips of the winga, each wing having horizontal control surfaces forming at least a part of the trailing edge of the wing, and a fuselage between the wings, the improvement which comprises a keel attached to and extending downwardly from said fuselage below the wings for a substantial distance to blanket one wing and to reduce its lift while increasing the lift of the other wing when the aircraft moves with a sideways component as when skidding or slipping, and other vertically extending elements connected with the aircraft and adding to the total lateral area, at least a major portion of the total lateral area of said elements being rearward of the center of gravity of the aircraft, whereby the center of area of the lateral area of the aircraft is rearward of the center of gravity of said aircraft, said keel having a lateral area substantially greater than that of any other structure projecting below either wing at regions spaced spanwise from the fuselage.



**2,649,266**
**FAIRING FOR HIGH-SPEED DEVICES**
**Georges Darrieus, Maunoury, Houilles, France, assignor to Compagnie Electro-Mecanique, Paris, France, a body corporate of France**
**Application July 18, 1947, Serial No. 761,777**
**In France March 24, 1945**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires March 24, 1965**
**8 Claims. (Cl. 244—130)**



1. A device adapted to travel at supersonic speeds without radiating pressure waves into space, said device consisting of an elongated body of revolution having a sharply pointed forward end of concave profile which flares rearwardly with reversed profile to merge smoothly into the maximum cross-section portion of the body, a cylindrical shield coaxial with said body and spaced radially therefrom, the inner and outer surfaces of said shield being surfaces of revolution having as their generatrix lines parallel to the axis of said elongated body and the forward inner surface of the shield being a surface of revolution meeting the outer cylindrical surface of the shield at a sharp edge, and faired arms securing said shield to said body, said arms constituting the sole objects affecting flow of a fluid medium through the interspace between said elongated body and said cylindrical shield, and the forward portion of said shield being constructed and arranged to reflect towards the rearward portion of said flaring section of said body pressure waves originating at said sharply pointed forward end and the adjacent flaring section as a result of high speed displacement in a fluid medium.

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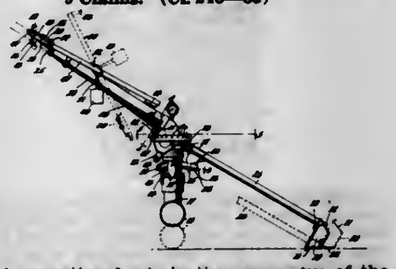
**2,649,267**
**ELECTRICAL CONNECTOR FOR RESILIENT STRUCTURES**
**Marvin B. Luke, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**Application March 1, 1950, Serial No. 147,032**
**13 Claims. (Cl. 244—134)**



1. A sectional protective covering relatively thin as compared to the width thereof and comprising separable sections of elastic material for mounting along and in conformance with the leading edge of an airfoil with margins of said sections adjoining one another and comprising elastic material, and electrical heating means in said sections including separable connecting means at said margins comprising a socket at the margin of one section and a plug element at the margin of the other section, said socket comprising a substantially flat plate secured to said elastic material of the covering section, a contactor slidable on said plate, and an element providing with said plate and said contactor a recess between them for reception of said plug element in engagement with said contactor, said contactor being connected with said elastic material of the covering section to resist resiliently and solely by the elastic action of said material movement of said contactor under pressure of said plug element and maintain the contacting engagement.

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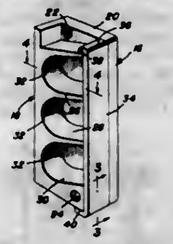
**2,649,268**
**TRIPOD MOUNTING**
**John Gilbert Stein, Chattanooga, Tenn.**
**Application March 4, 1949, Serial No. 79,709**
**9 Claims. (Cl. 248—83)**



1. A mounting for irrigation apparatus of the type having a nozzle rotatable on a substantially vertical axis and disposed to project a stream of water laterally from such axis, comprising a barrel in which the nozzle is mounted rotatably, a set of legs having portions engageable with the respective sides of the barrel at variable angular inclinations therewith and having feet on their outer ends mounted eccentrically for rotation about the longitudinal axes of the respective legs, each of said feet having a pair of ground engaging surfaces of relatively different eccentricities for engagement with the ground, and means on the barrel and cooperative with the inner ends of the legs for fixing the legs at the variable angular inclinations which they assume relatively to the barrel while the latter is in upright position and the ground engaging surfaces of one or the other eccentricity on the feet on the outer ends of the legs rest on the ground.

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**2,649,269**
**CURTAIN ROD HOLDER**
**Cecil A. Hart, Hackensack, N. J.**
**Application April 23, 1952, Serial No. 283,853**
**3 Claims. (Cl. 248—262)**

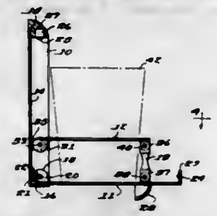


1. A curtain pole hanger comprising a bracket including a block-like body portion provided with a plurality of vertically spaced notches forming keeper seats, said keeper seats being closed at their inward ends and open at their outward ends and all of said keeper seats being inclined, and plate means removably bridging the open

ends of said seats and serving as a closure for the seats, at least one end of said body having a detent and one end of said plate being laterally bent and having recess means into which said detent is releasably snapped.

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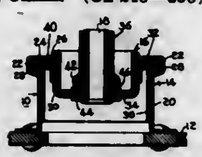
**2,649,270**
**FOLDING RECEPTACLE HOLDER**
**Alton L. Franks, West Palm Beach, Fla.**
**Application July 25, 1950, Serial No. 175,830**
**1 Claim. (Cl. 248—311)**



A folding container holder comprising an inverted U-shaped frame having a continuous recess in the inner edge, a panel mounted in the said recess of the frame providing a back, said panel having a flange on the lower edge extended into the frame, a tray having an arcuate lower edge, a pair of apertured ears on the tray hinging the tray in the lower end of the frame, and positioning the tray to extend outwardly to a horizontal position and also to fold to a closed position providing a front wall of the frame, a retaining ring, a pair of apertured ears on the ring hinging the ring in the frame and positioning the ring to extend outwardly to a horizontal position and also to fold to a closed position in the frame, a post pivotally attached to a depending apertured ear on the outer part of the retaining ring and an upstanding apertured ear on inner surface of the tray for supporting the retaining ring in spaced relation to the tray with the tray in the extended position, means in the frame engaging the arcuate lower edge of the tray for limiting outward movement of the tray thereby supporting the tray in a horizontal position a knob on the bottom of the tray diametrically opposite to the post for extending the tray outwardly of the frame, and a fastener on the outer end of the tray for retaining the tray in the closed position in the frame.

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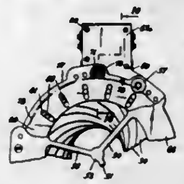
**2,649,271**
**MOUNTING DEVICE**
**Raymond A. Gosselin, Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts**
**Application July 8, 1950, Serial No. 172,768**
**1 Claim. (Cl. 248—358)**



A mounting device comprising a supporting base having an opening therein; a rubber diaphragm assembled in the opening, said rubber diaphragm having an integral upstanding rubber tubular member disposed centrally thereon; a rigid load-bearing shaft assembled inside the tubular portion having a flange member disposed thereon above the diaphragm inside the tubular member whereby the surrounding portion of the tubular member is expanded; a constricting washer assembled around the tubular member between the diaphragm and the flange member, the internal diameter of said washer being less than the diameter of said flange, whereby the tubular member is constricted under the flange member; and a retaining washer disposed on the shaft below the diaphragm, whereby the medial portion of the diaphragm is gripped between the constricting washer and the retaining flange, and the constricting washer is retained in position against the diaphragm by the flange member disposed on the shaft.

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**2,649,272**
**IRIS TYPE VALVE CONSTRUCTION**
**Robert C. Barbato, New York, N. Y.**
**Application March 31, 1950, Serial No. 153,155**
**7 Claims. (Cl. 251—18)**



1. In a valve of the class described for controlling the flow of fluid through a duct or similar tubular member wherein a pair of annular discs are mutually interconnected to form a space therebetween, and in which space an iris shutter composed of a plurality of pivotally mounted vanes is housed, and in which pins are provided on said vanes, a ring member having radially arranged slotted openings therein receiving said pins therein, whereby upon axial rotation of said ring, said vanes will be adjustably moved to open or close said valve, the improvement which comprises providing at least one of said annular discs with an integral, rigid spider portion, said spider portion comprising a plurality of legs meeting at the center of said disc to serve as a backing plate to prevent bellowing of said vanes when the valve is in closed position, said spider legs being tapered from the center thereof to the outside diameter to provide a compensating space for the stacking of the vanes when required.

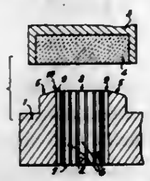
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**2,649,273**
**DEVICE FOR CONTROLLING THE PASSAGE OF A FLUID**
**Pierre P. Honegger, Geneva, Switzerland**
**Application June 2, 1947, Serial No. 752,077**
**In Switzerland June 13, 1946**
**14 Claims. (Cl. 251—27)**

1. A valve structure, comprising, in combination, a tubular valve body formed with an elongated passage extending axially therethrough, said valve body having a valve seat located about said passage at an extreme outer end thereof, said valve seat being in a plane which is substantially perpendicular to the longitudinal axis of said passage, and the wall of said passage being formed with a plurality of grooves which are parallel to each other and extend substantially along the length of said passage, the said grooves each terminating at one end in said valve seat,



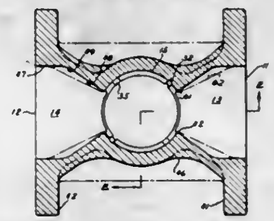
and said valve body having at said outer end thereof an annular conical end face having an inner periphery located at said one end of each groove and an outer periphery located between the extreme ends of said valve body; and a valve



member adapted to be moved toward and away from a closing position where it abuts against said valve seat, said grooves decreasing any noise due to the flow of fluid through the valve structure.

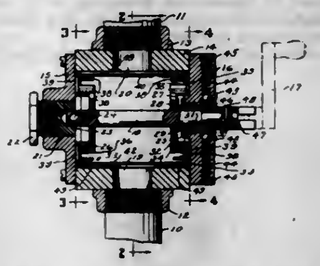
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**2,649,274**
**PLUG VALVE BODY**
**Charles B. Johnson, Pittsburgh, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 20, 1948, Serial No. 45,239**
**1 Claim. (Cl. 251—93)**



In a plug valve; a body having an opening; an outwardly projecting flange surrounding said opening; a plug seat extending into said body substantially perpendicular to said opening; a tapered plug rotatably mounted in said plug seat; said plug having an aperture therethrough of substantially less width than said opening; a wall integral with said body closing one end of said plug seat to form a lubricant chamber, the surface of said wall facing said plug seat being an upwardly concave surface of revolution whose center of curvature is substantially on the axis of said plug seat and plug and below the center of the aperture in said plug, said wall being of greater thickness in the center than at the edges; a passage between said opening and said plug seat, the side walls of said passage adjacent said opening having portions substantially parallel adjacent said opening and extending inwardly therefrom a distance greater than the thickness of said flange, said parallel portions being connected by smoothly curved sections to substantially straight portions converging toward said plug seat to substantially the width of said aperture in said plug, the walls of said passage being thinnest adjacent said curved sections, the outer surface of said walls being smoothly curved substantially parallel to the edges of said aperture and having a radius of curvature substantially greater than the thickness of said walls, the top and bottom walls of said passage being substantially straight and diverging uniformly toward said plug seat.

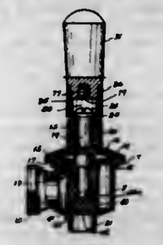
**2,649,275**
**SHUTOFF OR SELECTOR VALVE HAVING A RESILIENT SHEET METAL ROTOR**
**Howard Noyes, Dayton, Ohio**
**Application June 3, 1949, Serial No. 97,068**
**7 Claims. (Cl. 251—96)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In a shut off or selector valve, a body having a substantially cylindrical interior surface, end covers on said body, said body having inlet and outlet openings, a substantially cylindrical resilient split rotor arranged concentrically therein in sealing contact with said interior surface and having means providing an outlet therefrom adapted to be aligned with the body inlet and outlet openings, sealing means interposed between said rotor and said body to offer frictional resistance to rotation of said rotor, means arranged to rotate said rotor and connected thereto whereby on rotation said rotor will contract and on release thereof will re-assume a substantially liquid tight sealing contact with the interior surface of said body.

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**2,649,276**
**LIQUID DISPENSING DEVICE**
**Thomas L. Titus, Cheyenne, Wyo., assignor to Wyott Manufacturing Co., Inc., a corporation of Wyoming**
**Application March 7, 1947, Serial No. 733,972**
**9 Claims. (Cl. 251—122)**

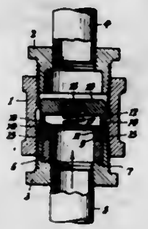


1. The combination with a plunger valve having a slidably operable plunger, a single diaphragm associated therewith, rockably operable handle means for actuating the plunger into and out of closed valve position, said handle having an accessible hollow portion, and tension means associated with the plunger for normally holding the plunger and diaphragm in closed valve position, of adjustable valve flow control means positioned within the hollow portion of the handle and hidden from view and being associated with the plunger for controlling the flow possible through the valve by limiting the extent of plunger operation possible, and said flow control means

also comprising closed valve locking means in a certain adjustment of the control means for entirely preventing any flow through the valve by preventing any plunger operation.

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**2,649,277**
**CHECK VALVE**
**Raymond H. Blackford, Flushing, N. Y., assignor to Durabla Manufacturing Co., New York, N. Y., a corporation of New York**
**Application November 25, 1949, Serial No. 129,329**
**1 Claim. (Cl. 251—144)**

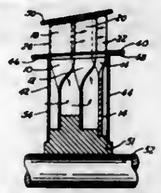


In a check valve for a pipe the combination comprising a cylindrical body of larger diameter than said pipe, bushings connecting said cylindrical body to said pipe, one of said bushings having a cylindrical recess therein, a tubular port and seat unit secured to said bushing within said recess and extending axially into said cylindrical body, said port and seat unit having a flat annular end face comprising a valve seat and also having around its outer surface a circumferential groove that is parallel to and spaced from said valve seat, said groove being in a plane generally perpendicular to the axis of said tubular port and seat unit, a valve guard having a flat head in the form of a flat sided polygon extending in a plane substantially perpendicular to the axis of said tubular port and seat unit with a plurality of spaced-apart straight legs extending from the corners of said head substantially parallel to the axis of said tubular port and seat unit, the spaces between said legs being much greater than the widths of said legs to provide a substantial area for fluid flow between said legs, inwardly directed foot members fixed on the ends of said legs and disposed within said circumferential groove to lock the guard in position with the polygonal head spaced from said valve seat, and a valve disc reciprocable between said head and seat, the corners of said polygonal head member and the corners of said leg ends being immediately adjacent to the bore of said cylindrical body, whereby the ends of the legs are restrained against disengagement from said circumferential groove without impeding the substantial area provided for fluid flow between the flat sided polygonal head and the bore of said cylindrical body.

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**2,649,278**
**ROTOR CONSTRUCTION FOR FLUID MACHINES**
**Edward A. Stalker, Bay City, Mich.**
**Application July 15, 1948, Serial No. 38,984**
**9 Claims. (Cl. 253—39.15)**

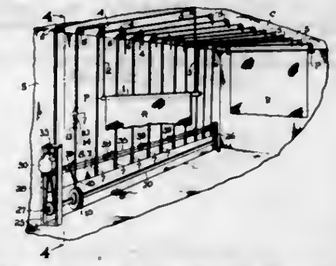
1. In combination, in a bladed axial flow rotor, a plurality of blade plates, each having a plurality of blade parts spaced peripherally thereabout, each said blade part having a radially extending trough opening rearward, said plates being positioned in axial relation to nest some said blade parts each in the trough of another said blade



part, and means fixing said blade parts in blade relation.

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**2,649,279**
**RUG HANDLING MECHANISM**
**Kenneth C. Jones, Brecksville, and Lewis L. Collins, Cleveland, Ohio, assignors to Cleveland Rug Cleaning Machinery Co., Cleveland, Ohio, a corporation of Ohio**
**Application September 29, 1948, Serial No. 51,718**
**10 Claims. (Cl. 254—144)**

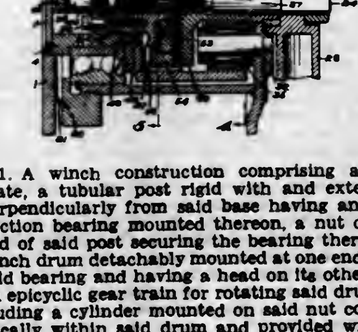


1. Selective hoisting mechanism having a plurality of hoisting systems with parallel spaced vertically disposed independently operable cables, comprising terminals secured to each cable, a plurality of anchors disposed in vertical alignment with said cables and releasably engageable with said terminals, a horizontally extending driving shaft disposed below said anchors, means for driving said shaft rotatably, a control shaft extending coextensively of and adjacent said anchors and connected with said means through which the latter may be caused to rotate said shaft, a plurality of operating levers on said control shaft spaced throughout the length thereof, a reel longitudinally slidably and non-rotatably mounted on said driving shaft and a cable attached on said reel and having a free end removably attachable to any one of said terminals.

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**2,649,280**
**CHAIN HOIST MECHANISM**
**Larence E. Rausenberger and Delmond L. Getz, Springfield, Ohio, assignors to The Steel Products Engineering Company, Springfield, Ohio, a corporation of Ohio**
**Application May 31, 1950, Serial No. 165,124**
**4 Claims. (Cl. 254—168)**

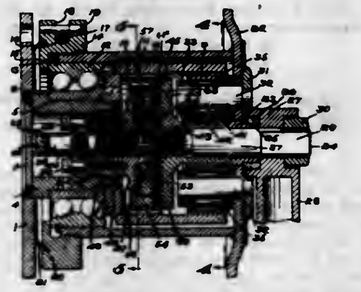
1. A hoisting device adapted for use with a chain comprising a housing, means forming inlet and outlet openings in said housing adapted to receive said chain therethrough for driving movement through said housing, a driving sprocket for said chain within said housing and adjacent said outlet opening, an idler sprocket for said chain within said housing and adjacent said inlet opening, guides cooperating with said idler sprocket to receive said chain through said inlet opening and to guide the same around said idler sprocket, stripper means on one of said guides adapted to straddle a portion of said idler sprocket for stripping said chain therefrom to prevent winding of said chain on said sprocket, guides cooperating with said driving sprocket



to receive said chain from said first named guides and to guide the same into driven engagement with said driving sprocket and through said outlet opening, and stripper means on one of said second named guides adapted to straddle said driving sprocket for stripping said chain therefrom to cause said chain to pass through said outlet opening.

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**2,649,281**
**WINCH**
**Russell Hastings, Jr., Wellesley, Mass., assignor to Lewis-Shepard Company, Watertown, Mass., a corporation of Massachusetts**
**Application January 7, 1948, Serial No. 915**
**23 Claims. (Cl. 254—187)**



1. A winch construction comprising a base plate, a tubular post rigid with and extending perpendicularly from said base having an antifriction bearing mounted thereon, a nut on the end of said post securing the bearing thereon, a winch drum detachably mounted at one end upon said bearing and having a head on its other end, an epicyclic gear train for rotating said drum including a cylinder mounted on said nut concentrically within said drum and provided with an internal gear and with an internal ratchet, planetary gears mounted on said drum head cooperating with said internal gear, a crank actuated shaft journaled in said tubular post and drum head, a sun gear rotatably mounted on said shaft engaging said planetary gears, braking means centered upon said shaft having a spring actuated pawl engaging said ratchet operable by rotation of said crank actuated shaft in one direction to cause engagement of said braking means with the sun gear and acting through said epicyclic train to wind the cable on the drum and to cause said pawl to ride over the teeth of said ratchet and operable upon cessation of said rotation to cause engagement of the pawl with the ratchet to prevent reverse rotation of the drum, said braking mechanism having means operable by reverse rotation of said crank shaft to control unwinding of the cable from the drum.

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**2,649,282**
**SNATCH BLOCK**
**Jessee E. Fate, Jr., Tulsa, Okla.**
**Application April 2, 1949, Serial No. 85,069**
**1 Claim. (Cl. 254—193)**



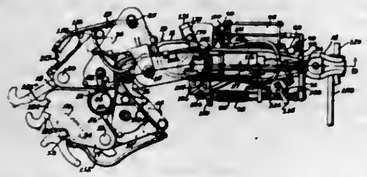
A snatch block comprising a shaft, a pair of side plates journaled on the shaft, a pulley journaled on the shaft between the side plates, a bolt interconnecting the side plates in spaced relation to the shaft, a pair of spaced flanges provided on the bolt between the side plates, a becket carried by the bolt between the flanges, a hook swivelly connected to the becket, one of said side plates having a slot to receive the bolt and provide swinging movement of said side plate on the shaft relative to the bolt, a substantially annular outwardly depending flange on the slotted plate adjacent the slot and between the slot and the shaft, a locking member threaded on the bolt having a recess to receive said flange and maintain the slotted plate in a fixed position on the bolt, and means on the bolt to prevent complete retrograde movement of the locking member.

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**2,649,283**
**SPINNING AND MAKE-UP TONG**
**Chester A. Lundeen, Los Angeles, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware**
**Application December 30, 1947, Serial No. 794,744**
**22 Claims. (Cl. 255—35)**

1. A tong comprising a lever and a series of pivotally interconnected jaws, the end jaws of the series being pivotally connected to the lever at spaced pivot points whereby swinging of the lever in one direction constricts the jaws about a pipe; pipe gripping means on the pipe engaging faces of certain of the jaws; a cylinder and piston assembly mounted on one of the jaws; a roller support connected to the assembly and movably mounted on the jaw; a roller rotatably mounted on the roller support and adapted to

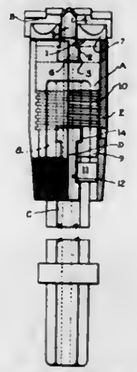
engage the pipe; a conduit supplying incompressible liquid under pressure to said cylinder; a control valve in said conduit for selectively applying pressure to move the roller into pipe en-



gaging position; and a check valve in the conduit upstream from the control valve adapted to prevent return flow of liquid from said cylinder whereby the roller is locked in pipe engaging position.

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**2,649,284**
**INSERTED TOOTH ROCK DRILL**
**Orlando Arthur Letts, Montreal, Quebec, Canada**
**Application February 12, 1949, Serial No. 75,983**
**3 Claims. (Cl. 255—64)**



1. A rock drill comprising, in combination with a drill rod having an external ring near one end with a circumferentially break therein, a drill head having cutting teeth in one end and an exteriorly threaded axial rod-receiving socket in the other end, and said socket end having a lateral T-shaped pocket registering with the break in the ring on said drill rod; an I-shaped coupling member disposed in the break in the ring on said rod and the pocket in the socket end of said head; and a threaded sleeve on the socket end of said head overlying and preventing the lateral displacement of said coupling member.

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**2,649,285**
**AIR COOLER**
**John W. Brown, Jr., Lakewood, Ohio, assignor to Brown Fintube Company, Elyria, Ohio, a corporation of Ohio**
**Application November 20, 1948, Serial No. 61,164**
**1 Claim. (Cl. 257—248)**

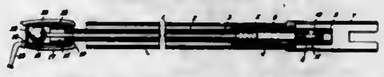
In combination with two spaced aligned sections of a substantially horizontal air line, an air cooler and moisture separator comprising a shell tube having the inlet end thereof open and adapted to be connected directly to the end of one section of said line, fitting means for connecting said end to said section with the axis of said shell tube sloping downwardly from the point of connection with said section whereby the discharge end of said shell tube is disposed adjacent but at a lower level than the end of the other section of said line, a condensate sump connected with the lower portion of the wall of said shell tube adjacent the discharge end thereof, a discharge conduit extending laterally from the upper portion of the wall of said shell tube adjacent the discharge end thereof and adapted to be connected to said other section, a tube having longitudinally extending external fins disposed within and extending longitudinally of said shell tube, said finned tube extending from the discharge end of said shell tube to a point near the inlet end of said shell tube, the end of said



finned tube adjacent the inlet end of said shell tube being closed, means detachably connected to said shell tube for closing the space between said finned tube and said shell tube at the discharge end of said shell tube, an open ended tube extending into said finned tube from the discharge end of said shell tube to a point near the closed end of said finned tube, connections for supplying a coolant to said open ended tube, and a housing for receiving coolant discharged from the open end of said finned tube, said open ended tube being removable from said finned tube and said finned tube being removable from said shell tube without disturbing the connections between said shell tube and said sections of said air line.

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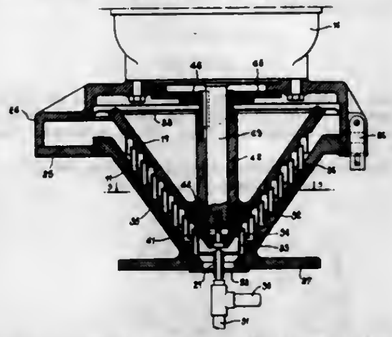
**2,649,286**
**VIBRATOR**
**Karl Axel Sam Karlström, Gavle, Sweden**
**Application June 18, 1951, Serial No. 232,107**
**In Sweden June 22, 1950**
**4 Claims. (Cl. 259—1)**



1. A vibrator comprising a resilient tubular arm, a hollow cylindrical impulse member secured to the forward end of said arm, a vibrating tool, a resilient arcuately curved clamp extending longitudinally of said impulse member and having abutments engaging the ends of the impulse member to retain the tool in place on the impulse member by the resiliency of the clamp, a spindle extending through the resilient tubular arm and having a forward end portion projecting into the hollow impulse member, a rotating body secured to the forward end of the spindle and adapted to roll on the inner surface of the hollow impulse member as the spindle rotates to impart vibratory movement to the impulse member in a direction substantially perpendicular to said arm, means for connecting the spindle to a motor, and a handle comprising a protecting tube surrounding the resilient tubular arm substantially throughout the length of said arm, the rear end of said arm being secured to said tube and the forward portion of said arm being smaller than the inside of said tube whereby the forward portion of the arm is free to vibrate within the tube.



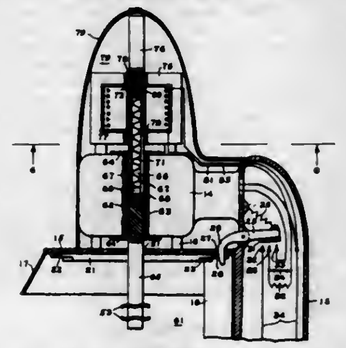
**2,649,287**
**APPARATUS FOR CONTINUOUS FROTHING OF RUBBER LATEX**
**Cuyler S. McChesney, Kenmore, N. Y., assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York**
**Application October 11, 1951, Serial No. 250,849**
**10 Claims. (Cl. 259—8)**



1. A frothing machine comprising a funnel shaped bowl having an inlet at its lower end and supply pipes to said inlet for a gaseous fluid and a liquid to be frothed therewith, a rotor of inverted conical surface in said bowl and spaced from the inner surface of said bowl to form an inverted conical passage therein, said bowl having cylindrical walls concentric with the axis of said rotor and extending into said inverted conical passage to form concentric annular troughs, the upper ends of said walls being spaced from said rotor, concentric cylindrical walls depending from said rotor into said troughs, said walls being spaced from the cylindrical walls of said bowl and from the bowl to form with said troughs a radially zigzag passage from the inlet to the upper edge of the bowl.

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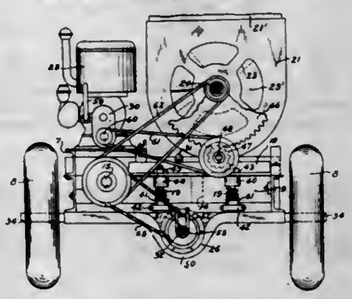
**2,649,288**
**MAGNETIC MIXER**
**John Hays Hammond, Jr., Gloucester, Mass.**
**Application November 19, 1949, Serial No. 128,237**
**1 Claim. (Cl. 259—108)**



A mixing device comprising a container, a support to hold said container in position for stirring, a motor mounted on said support and having a hollow vertical shaft, a stirring rod mounted in said shaft to be driven thereby and sliding axially between retracted and stirring positions, spring means normally holding said rod in retracted position, a solenoid having a core attached to said rod and positioned to advance said rod downwardly when energized and circuit means including a container actuated switch to energize said solenoid.

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**2,649,289**
**CONCRETE GUN**
**Samuel H. Gilberson, Kansas City, Mo., assignor to Richard Roosevelt Colburn, Kansas City, Mo.**
**Application January 17, 1952, Serial No. 266,900**
**5 Claims. (Cl. 259—151)**



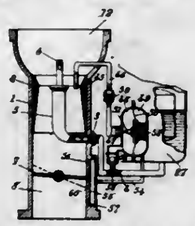
1. In a unit for converting bulk granular material ingredients into a continuous homogeneous compact stream of mixed material, a hopper having therein a batch ingredient mixer and a cooperating mixed material conveyor separable from the mixer by a flow control gate, said mixer and conveyor being exposed to the ambient atmosphere and the latter having an outlet remote from said gate, a screw conveyor disposed closely adjacent to said hopper and having a sealed casing provided with an inlet disposed out of alinement with said hopper outlet, a pair of oppositely reciprocable plungers each having a pocket alternately communicable with said outlet and with said inlet and of less width in the direction of travel of said plungers than the distance between the adjacent edges of the outlet and inlet, means for confining said plungers to provide an air-lock between said hopper and said casing, means for injecting compressed air through said pockets while in communication with said inlet, and means for delivering compressed air through the delivery end of said screw conveyor to forcibly discharge a constant stream of the mixed material from said casing.

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**2,649,290**
**CARBURETOR**
**Gaston Griffon, Neuilly-sur-Seine, France, assignor to Societe Solex, a society of France**
**Continuation of abandoned application Serial No. 728,737, February 15, 1947. This application February 14, 1951, Serial No. 210,824. In France February 15, 1946**
**4 Claims. (Cl. 261—34)**

1. For use in connection with an internal combustion engine, the combination of a carburetor including an induction pipe and a throttle in said pipe, an automatic pick-up pump operative in response to variations of the suction in said pipe on both sides of said throttle, this pump including a part movable in response to variations of this suction from one position corresponding to the minimum value of this suction to another position corresponding to the maximum value of

said suction, and a fuel discharge conduit leading from said pump to said pipe, and a metering valve operatively connected with said movable part and located in said fuel discharge conduit, said valve



being so shaped and connected with said movable part as to increase gradually the flow section through said conduit in response to displacement of said movable part from said first mentioned position thereof to said second one.

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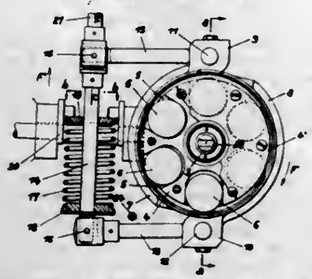
**2,649,291**
**DETACHABLE VANE ASSEMBLY FOR CONTACT COLUMN**
**Ben Bartolucci, Chicago, Ill.**
**Application October 17, 1951, Serial No. 251,798**
**8 Claims. (Cl. 261—79)**



6. A fractionating device comprising a cylindrical casing having vertically spaced apart annular collars secured to the inner wall of said casing, detachable vane assemblies or units suspended from said collars, each of said vane assemblies including a plurality of dihedral vane members radially disposed from the center of the casing and having outer ends spaced from the inner cylindrical wall of said casing, and means for suspending each of said vane assemblies below and from its adjacent collar.

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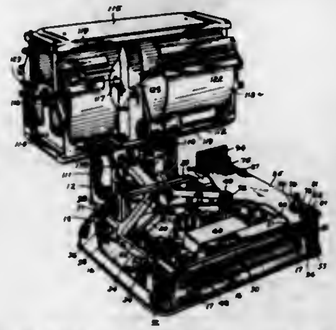
**2,649,292**
**CENTRIFUGALLY OPERATED REGULATING DEVICE**
**Léo Dessert, Epinay, Marcel Abel, La Courneuve, and Georges Rua, Saint-Ouen, France**
**Application November 13, 1950, Serial No. 195,352**
**In France December 1, 1949**
**4 Claims. (Cl. 264—3)**



1. A centrifugally operated regulating device comprising a driving shaft, a rotor fixedly mounted on said driving shaft, a series of housings provided in the periphery of said rotor, a plurality of rollers each rotatably and slidably mounted in one of said rotor housings, means forming a deformable rolling path for said rollers surrounding the periphery of said rotor, means for retaining said rolling path against rotation with said rollers and said rotor, and regulating means connected to said rolling path for being operated thereby.

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**2,649,293**
**SCALE**
**David A. Meeker, Troy, and Kenneth C. Allen, Dayton, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio**
**Application June 7, 1946, Serial No. 675,142**
**13 Claims. (Cl. 265—27)**



1. In a scale of the character described, the combination of a base, weighing mechanism supported in said base, weight indicating mechanism at one side of and projecting upwardly above said base, a casing enclosing the sides of said base and including a top plate overlying said weighing mechanism to prevent access of foreign matter thereto, platter supporting posts extending upwardly from said weighing mechanism, said plate having apertures therethrough for receiving said posts, a collar on each said post of a size fitting closely within the associated said aperture to maintain a sealed condition within said casing, said collars being correlated in vertical extent with the relative spacing of said weighing mechanism and said plate to extend at least partially through said apertures in the uppermost position of said weighing mechanism for preventing access of dust and dirt to the interior of said casing, means for adjustably positioning said collars in proper lateral relation to their respective said posts to fit said apertures, and a platter removably supported on said posts for ready removal and replacement, said platter covering the entire portion of said base and said casing at the side of said indicating mechanism and having a down-turned marginal flange downwardly overlapping the upper plane of said casing in the zero position of said weighing mechanism to prevent passage of foreign matter onto said top plate.

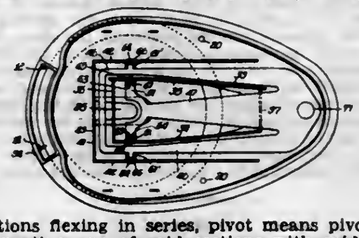
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**2,649,294**
**HOUSEHOLD SCALE**
**Charles T. Walter, Harvey, Ill.**
**Application July 11, 1947, Serial No. 760,286**
**17 Claims. (Cl. 265—63)**

1. In a weighing scale, the combination of a stationary support, a movable weighing support,



a plurality of leaf springs in superposed relation for operatively connecting said movable weighing support with said stationary support, each of said leaf springs being of multiple cantilever construction comprising a plurality of spring



sections flexing in series, pivot means pivotally connecting one of said sections with said stationary support, and pivot means pivotally connecting the other of said sections with said movable weighing support..

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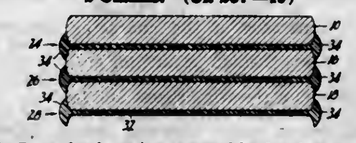
**2,649,295**
**TRUCK DOCK BUMPER**
**Fred B. Schuyler, near Seattle, Wash., assignor to Durable Mat Company, Seattle, Wash., a corporation of Washington**
**Application November 17, 1950, Serial No. 196,244**
**2 Claims. (Cl. 267—1)**



1. A bumper for truck loading docks or the like comprising a plurality of resilient rubber-like strips arranged face-to-face in stacked relationship, a pair of structural angle brackets having flanges constituting bearing plates abutting the outer strip faces at opposite ends of the stack, respectively, and having their other flanges disposed substantially coplanar with one side of said stack and projecting oppositely endwise therefrom, said stack of strips having apertures therethrough disposed between the side of said strip stack substantially coplanar with such other angle flanges and the central plane of said stack parallel thereto and offset a substantial distance from such plane, and through rod means extending through said bearing plate flanges and said stacked strips' apertures, interconnecting said brackets to retain said strips clamped between the strip-engaging faces of the bearing plate flanges of such brackets, such other flanges of such brackets constituting mounting plates for mounting the bumper by its ends.

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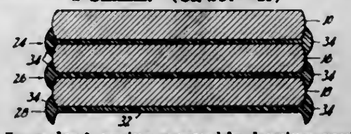
**2,649,296**
**LEAF SPRING ASSEMBLY**
**Harold T. Dow, Elma, N. Y.**
**Application May 25, 1950, Serial No. 164,230**
**2 Claims. (Cl. 267—49)**



1. In a leaf spring assembly having multiple leaves with curved longitudinal edge portions, a liner inserted between adjacent leaves thereof comprising a strip of synthetic plastic pliable material selected from the class consisting of solid polyethylene and linear condensation polyamid possessing lubricantless friction-reducing properties having a sheet-like central web portion with flange portions formed integrally therewith at its opposite edges, the flange portions being sectionally shaped to snugly fit and complement the curved edge portions of the leaves throughout the entire lateral and longitudinal extents of the flange portions to dirt seal the curved edge portions of the springs.

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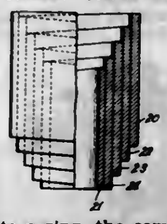
**2,649,297**
**LEAF SPRING ASSEMBLY**
**Harold T. Dow, Elma, N. Y.**
**Application June 29, 1950, Serial No. 171,157**
**2 Claims. (Cl. 267—49)**



1. In a leaf spring assembly having multiple leaves with curved longitudinal edge portions, a liner inserted between adjacent leaves thereof comprising a strip of synthetic plastic pliable material selected from the class consisting of solid polyethylene and linear condensation polyamid possessing lubricantless friction-reducing properties having a sheet-like central web portion with flange portions formed integrally therewith at its opposite edges, said flange portions being sectionally shaped to approximately complement the edge shapes of an adjacent spring leaf and bearing against the edges of the leaf only at the outer edges of the flange portions to provide a dirt seal therebetween.

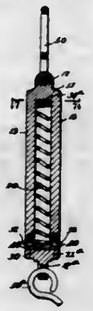
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**2,649,298**
**VOLUTE SPRING**
**Cal W. Wulff and Frank G. Newman, Chicago, Ill., assignors to Holland Company, a corporation of Illinois**
**Application May 12, 1950, Serial No. 161,766**
**13 Claims. (Cl. 267—62)**



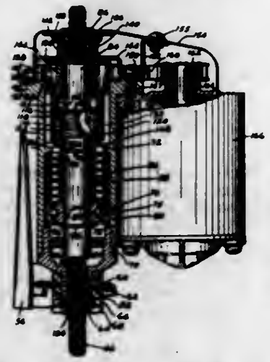
1. In a volute spring, the combination of inactive outer and inner coils and at least three active intermediate coils, all tightly wound, the outer active coil being low-stressed, the middle active coil highly stressed and the inner active coil still more highly stressed, whereby the outer active coil acts as a resilient casing to yieldably oppose unwrapping of the middle and inner active coils, said middle and inner active coils maintaining firm frictional contact with each other even after substantial wear due to the high stressing of said middle and inner active coils, and said spring being hot-wound with an increasing helix angle from outer active coil to inner active coil, and then cold set, whereby secondary stresses due to coning are attenuated.

**2,649,299**
**SPRING SCALE**
**William P. Murphy, Jr., Brookline, Mass., assignor to Fenwal Laboratories, Inc., Ashland, Mass., a corporation of Massachusetts**
**Application March 14, 1951, Serial No. 215,449**
**4 Claims. (Cl. 265—63)**



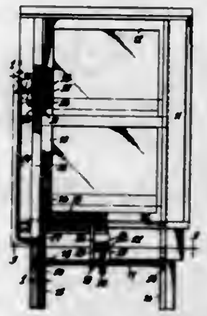
1. A weighing device comprising, in combination, a sectioned, elongated casing formed by duplicate, opposed, lengthwise slidably interfitted bars having each a shoulder portion and normally depending arms and aligned and guided for relative axial movement by mating longitudinal bearing surfaces on said arms, said bars mutually shaped and arranged to define a longitudinal chamber centrally of the casing; duplicate bearing plates capping the opposite open ends and underlying the shoulders of said interfitted bars to define end walls for said chamber; spring means compressively interposed in said chamber between said plates; oppositely extending coupler means on said bars for engaging respectively and alternatively a support and the load to be weighed; and scale indicia on said casing.

**2,649,300**
**WINDOW LIFTING MECHANISM**
**James Mark Launder, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio**
**Application December 26, 1947, Serial No. 794,672**
**13 Claims. (Cl. 268—124)**



1. A window actuating mechanism comprising a reversible electric motor, a threaded sleeve, a coupling between the sleeve and the electric motor including friction means for clutching a surface carried by said sleeve and control means therefor functioning in response to the direction of rotation of the motor for establishing its drive in either direction, a non-rotatable screw shaft threaded in said sleeve for causing the shaft to move longitudinally with respect thereto in response to rotation of said sleeve for moving a window between selected positions, the sleeve being axially displaceable with respect to the electric motor to provide a longitudinally sliding movement between said friction means and said control means when the resistance to the longitudinal movement of the screw shaft for moving the window exceeds a predetermined value to uncouple the sleeve from the electric motor to thereby interrupt the movement of said window.

**2,649,301**
**WINDOW SASH OPERATING MECHANISM**
**James W. Signore, Ellicottville, N. Y.**
**Application July 15, 1950, Serial No. 174,057**
**4 Claims. (Cl. 268—132)**

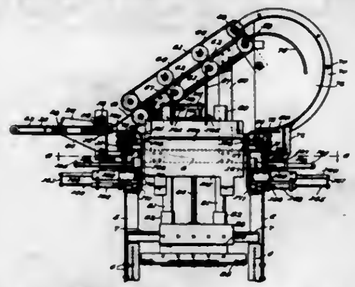


1. An operating mechanism comprising the combination of a window frame having upper and lower sash guided therein, of a rack bar secured to the lower sash, an operating shaft supported in the window frame and having a pinion thereon meshing with said rack bar, a latching bolt for the upper sash including a spring for normally urging it to its unlatched position, and means releasably connecting said rack bar with said bolt for projecting the latter to its latching position in response to the movement of the lower sash to its closed position, said means being releasable from said bolt when such lower sash is raised to cause the bolt to be spring-urged to its unlatched position.

**2,649,302**
**METAL SHEET STACKER**
**Scott R. Johnson, River Forest, and Charles Taylor Walter, Markham, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York**
**Application October 31, 1949, Serial No. 124,632**
**23 Claims. (Cl. 271—65)**

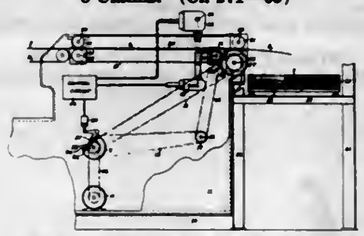
1. In apparatus of the character described, means for supporting a skid in position for receiving sheets thereon, means for guiding falling sheets to arrange them in a stack on a supported skid, means for receiving sheets and feeding them at a predetermined level to the guiding and supporting means, sheet inverting means disposed and constructed to deliver sheets directed therethrough in inverted condition at said level, means controlled by the accumulation of sheets on said skid for automatically lowering the supporting means so as to maintain the top of the stack always approximately the same distance below said level and means placeable to bring about passage





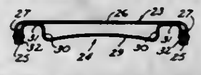
of sheets directly to the guiding and supporting means or indirectly through the inverting means.

**2,649,303**
**SHEET-FEEDING AND TURNING APPARATUS**
**Richard N. Fuller, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application October 17, 1951, Serial No. 251,697**
**8 Claims. (Cl. 271—65)**



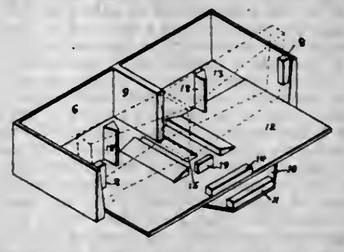
1. In a sheet-feeding and stacking mechanism the combination with means for conveying individual flexible sheets separately and in a flatwise condition along a given path to a discharge point, of a sheet pick-up roll mounted at said discharge point and having a sheet-engaging portion adapted to receive and confine the leading edge of a sheet moving along said path, means for rotatably mounting said pick-up roll to rotate in the direction of feed of the sheets from a normal inoperative position, wherein its sheet-engaging portion is removed from the path of said sheets and through an operative position wherein the sheet-engaging portion is in the path of said sheets to receive and confine the leading edge of the sheet approaching said discharge point after which rotation of said roll carries said leading edge away from the path of said conveying means at a slower rate than that at which the conveying means advances the trailing edge of said sheet and while the conveying means continues to move the trailing edge of the sheet along said path to continually force the leading edge of the sheet into confining relation with said sheet-engaging portion, means for selectively driving said pick-up roll one revolution at a time at said specified rate from its normal position, through said operative position, and back to said normal position, means responsive to the leading edge of a given sheet approaching said discharge point for instigating the drive for said pick-up roll, and means for engaging the leading edge of said sheet to disengage it from said sheet-engaging portion of said pick-up roll when the leading edge is displaced sufficiently from said path to cause the sheet to be turned over as the result of the continued feeding of the trailing edge along said path.

**2,649,304**
**ALUMINUM SPRINGBOARD**
**Jack M. Ulanovsky, Los Angeles, Calif., assignor to Paddock Pool Equipment Co., Los Angeles, Calif., a corporation of California**
**Application February 10, 1951, Serial No. 210,351**
**8 Claims. (Cl. 272—66)**



1. A flexible resilient metal diving board, comprising the combination of: a sheet metal top plate of downwardly facing channel cross-section, including a longitudinally extending web and downturned flanges along the longitudinal edges thereof, said web edges defining the entire width of the upper surface of said diving board, and a sheet metal bottom plate of upwardly facing channel cross-section, including a longitudinally extending web positioned in spaced relation below said web of said top plate, and flange formations along the longitudinal edges thereof secured to said downturned flanges of said top plate, all so constructed and arranged as to form a hollow rectangular-like box section stiffened by said spaced webs against longitudinal buckling, and stiffened by the lower web against tortional stress.

**2,649,305**
**PLAYING CARD SHUFFLER**
**Walter E. Scheuitz, Fort Wayne, Ind.**
**Application March 17, 1950, Serial No. 150,195**
**7 Claims. (Cl. 273—149)**

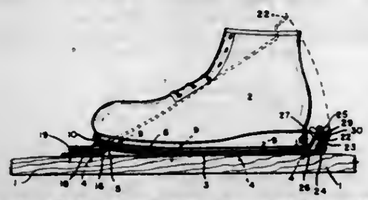


2. A card shuffler consisting of a case having an open top and front and provided with back and end walls, a stationary vertical partition located in the midportion of the case, inwardly extending stops on the end walls adjacent the open front of the case, and a movable slide in said case provided with two upstanding push-posts arranged on the rear portion thereof so as to be positionable on opposite sides of said partition, and an upstanding stop on said slide alined with said partition, ridges on said slide located respectively between said partition and the corresponding push-posts, the parts being arranged so that when card packs are placed in opposite positions in vertical divergent planes on said slide between the end walls and said partition, and the slide is moved outwardly, the packs are moved accordingly by action of said push-posts so the individual cards in said packs

are flipped from contact with said partition into overlapping relation with each other, the stops on the end walls and the slide being adapted to prevent scattering of the cards.

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**2,649,206**
**SKI HARNESS**
**Anderson C. Hilding, Duluth, Minn.**
**Application July 13, 1951, Serial No. 236,641**
**1 Claim. (Cl. 280—11.35)**

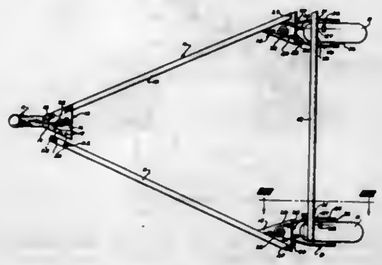


As a new article of manufacture, a harness for mounting a ski-boot on a ski consisting of a metallic plate fixed to said ski substantially centrally of the length of the ski, said plate being bent upwardly intermediate its ends providing a raised portion on said plate slightly rearwardly of the longitudinal center of balance of said ski, a first portion of a hinge connection carried on said raised portion, said hinge portion including an elongated eye extending transversely of said ski, a metallic sole plate fixed to the sole of said ski-boot and extending from the toe thereof beyond the heel thereof, a second portion of a hinge connection on the forward end of said sole plate, said second portion including spaced alined eyes adapted to coincide with the eye of said first portion, a pintle extending through the eyes of said first and second portions to provide a pivotal connection between said plates, means to secure said pintle in its desired position in said eyes, first said plate having a rear end portion extending beyond the heel of said boot, a pair of spaced alined eyes formed of said rear end portion, said sole plate having a rear end portion bent upwardly then outwardly at the rear end of said boot to provide a substantially horizontally disposed clamp member in vertically spaced relation to and over last said eyes, said clamp member being bifurcated from its outer end inwardly, a bolt, a pin pivotally carrying said bolt between last said eyes whereby said bolt will be received in said bifurcation when in vertical position, and a nut on the end of said bolt above said clamp member to clamp first said plate and said sole plate into fixed relation to each other whereby said ski-boot is securely held against said ski, and whereby said nut may be loosened to release said ski-boot to permit its pivotal movement on said hinge connection relative to said ski.

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**2,649,307**
**KNOCKDOWN TYPE TWO-WHEEL TRAILER**
**Kenneth J. Hersey and Arthur J. Hersey, Minneapolis, Minn.**
**Application July 30, 1951, Serial No. 239,282**
**4 Claims. (Cl. 280—33.4)**

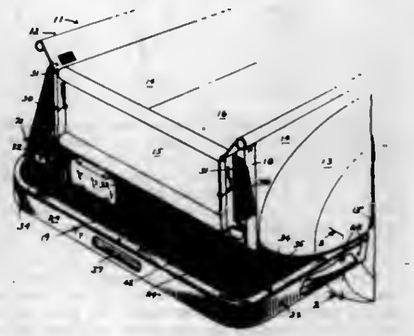
4. A trailer frame of the character described adapted to be taken apart for storage, comprising in combination, rearwardly diverging side members and a front tie unit detachably connecting the forward ends of said members, a trailer hitch on said front tie unit, a rear cross member extending across the divergent rear ends of the side members and forming therewith a triangular frame, a rear tie unit at each rear corner of the frame and permanently secured to the rear ends of the side members, a wheel suspension unit secured to each of the rear tie units for supporting the frame, and means for detachably fastening the cross member to said



rear tie units whereby this cross member may be conveniently removed and the side members then disconnected from each other at their forward ends and rolled away on the wheel suspension units when the trailer is diassembled for storage, each of said tie units comprising upper and lower triangular plates welded to said side members.

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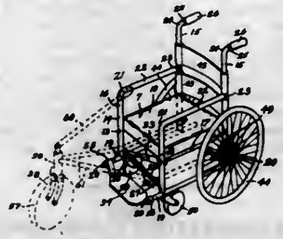
**2,649,308**
**BUMPER AND STEP AND TRAILER-HITCH UNIT**
**William E. Bice, Jr., Lockeford, Calif.**
**Application February 26, 1951, Serial No. 212,802**
**9 Claims. (Cl. 280—33.44)**



1. In a rear bumper unit for a truck having a frame-supported body fixedly disposed between rear fenders, a continuous U-shaped rear bumper bar of channel section having its flanges directed inwardly in common planes, the upper flange of the bar sides adjacent their rear ends being formed for their complementary engagement with the exteriors of the opposed fenders while the bottom edges of the fenders rest upon the bottom flange of the bar, means directly fixing the web portions of the positioned rear bar ends to the fenders, and support brackets extending forwardly and upwardly from the rear portion of the bumper bar having forward ends thereof directly fixed to the body frame for a disposal of the lower flange of the bumper bar at the level of said bottom edge of the fender.



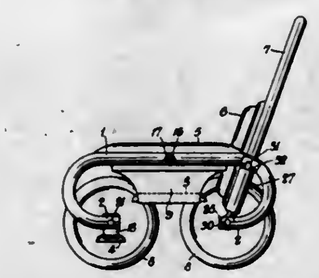
**2,649,309**
**FOLDABLE WHEEL CHAIR AND STEERABLE WHEEL ATTACHMENT THEREFOR**
**Douglas D. Deissner, Spokane, Wash.**
**Application June 8, 1951, Serial No. 230,657**
**2 Claims. (Cl. 280—42)**



2. An invalid's convertible wheel chair comprising spaced side frames adapted to carry an individual in the seated position, axially aligned axles carried by said frames and having supporting wheels journaled thereon, means for securing said axles to said frame and including rings adapted to receive side bars of a steerable street wheel, and means disposed forwardly of said rings and associated with said side frames adapting the frames to releasably secure said side bars, whereby said chair is convertible from an indoor wheel chair to a street vehicle.

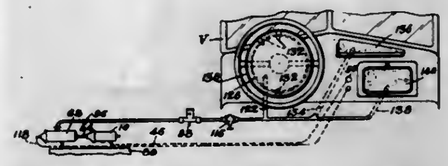
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**2,649,310**
**PUSH CHAIR**
**David Sebel, London, England**
**Application April 24, 1951, Serial No. 222,550**
**In Great Britain February 26, 1951**
**3 Claims. (Cl. 280—47.40)**



1. A demountable pushchair comprising a pair of side frames each supported upon a front wheel and a rear wheel, releasable means securing each wheel individually to its frame, a rigid seat extending between the frames, releasable attachment means securing the side edge portions of said seat to the respective frames, a rigid back rest spanning between the legs of a U shaped push handle and having the side edge portions thereof secured to the respective legs of said handle, the free ends of the legs being secured to the respective frames by said rear wheel securing means, and projections on said legs intermediate the length thereof adapted to engage in apertures in the respective frames to fixedly locate the handle with respect to the frames.

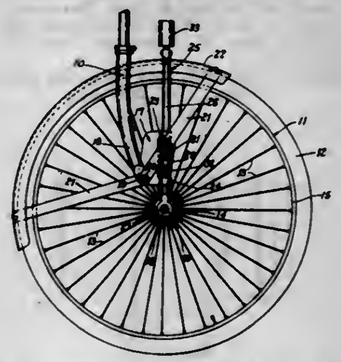
**2,649,311**
**SAFETY CUSHION ASSEMBLY FOR AUTOMOTIVE VEHICLES**
**John W. Hetrick, Newport, Pa.**
**Application August 5, 1952, Serial No. 302,839**
**5 Claims. (Cl. 280—150)**



2. A safety cushion assembly for automotive vehicles comprising: a cylinder adapted to be mounted upon a vehicle; a weight within the cylinder and shiftable longitudinally thereof responsive to deceleration of said vehicle; a normally closed valve connected to said weight to move to open position on shifting of said weight; an air accumulator; at least one inflatable cushion adapted for mounting within said vehicle; and a conduit extending between said accumulator and cushion and normally closed by the valve, for passage of air from the accumulator to the cushion for inflating the same responsive to opening of the valve.

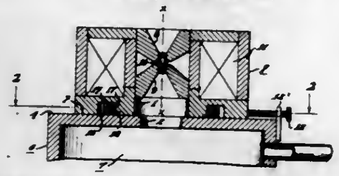
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**2,649,312**
**FORK ATTACHMENT FOR SPRINGING BICYCLE WHEELS**
**Benjamin J. Miller, Alliance, Ohio**
**Application January 18, 1951, Serial No. 206,586**
**4 Claims. (Cl. 280—277)**



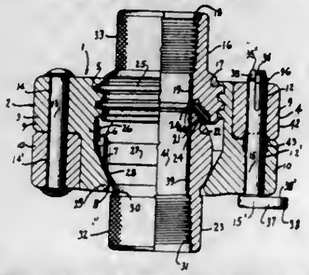
4. In combination with a bicycle fork, a guide bearing bracket attached to each furcation of said fork, a yoke having a depending leg slidably mounted through each guide bearing bracket, a bicycle wheel, an axle for said wheel, means connecting the ends of the axle to the ends of said depending legs of the yoke, spring means interposed between each depending leg of the yoke and the corresponding guide bearing bracket, a guide member attached to the upper end of the yoke, a rod slidable in said guide member, and support means for said rod rigidly attached to the fork.

**2,649,313**
**GASKET SEAL FOR LATERALLY ADJUSTABLE JOINTS**
**Gustav F. Burger, Camden, and John H. Reisner, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application November 1, 1947, Serial No. 783,496**
**1 Claim. (Cl. 285—1)**



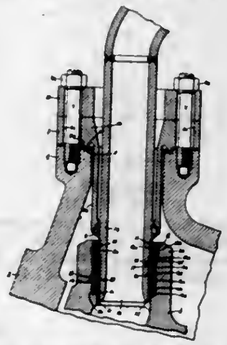
A vacuum plumbing system comprising a conduit having a groove in an end face thereof, a second conduit having an end face presented in abutting relation to said grooved end face, means for relatively moving said conduits into and out of axial alignment, a yieldable gasket within said groove, said gasket being subject to lateral distorting forces in response to said relative movement of said conduits, and a shoulder within said groove for limiting the application of said lateral distorting forces to a portion of said yieldable gasket remote from the abutting faces of said conduits, said groove and said gasket being of annular configuration, the normal maximum external diameter of said yieldable annular gasket being substantially less than the external diameter of said annular groove whereby said annular groove is capable of accommodating said yieldable gasket material when said gasket is subjected to said lateral distorting forces.

**2,649,314**
**QUICK DETACHABLE SWIVEL PIPE UNION**
**Vernon C. H. Richardson, Bellaire, Tex., assignor of one-fourth to Cecil K. Farr, Beaumont, Tex., and one-fourth to Floyd W. Etchison and one-fourth to John H. Stevenson, both of Port Arthur, Tex.**
**Application August 7, 1951, Serial No. 240,637**
**1 Claim. (Cl. 285—91)**



In a union having a pair of pipe joint elements for connection in end to end relation, a retaining ring embracing said elements to hold them in assembled relation, said ring comprising a pair of semi-circular sections hinged together and having lugs at their free ends to be overlapped and joined, each lug providing an aperture therein and said apertures being brought into end to end alignment when said ring embraces said elements in assembled relation, a slidable connector pin carried in the aperture of one of said lugs for sliding projection and retraction in said aperture and through the aperture in the other lug, a bead of slightly larger diameter than said pin being provided adjacent one end thereof and said pin being tapered inwardly from said bead to said end and said end being axially split to enable its contraction for reducing the diameter of said bead to the diameter of said apertures for passage therethrough, a head extending radially outwardly from the other end of said pin to provide a surface to be struck to move said pin in an axial direction, said pin being of a length so that with the pin in projected position the inner side of said bead and the inner side of said head are outwardly of the outer faces of said lugs, there being a recess provided in the inner face of the lug nearest said head of a depth greater than the distance from the inner side of said head to the split end of said pin.

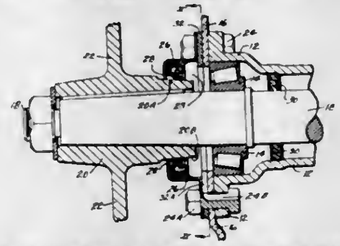
**2,649,315**
**HIGH-TEMPERATURE EXPANSION JOINT**
**Peter G. Ipsen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application March 10, 1951, Serial No. 214,938**
**1 Claim. (Cl. 285—162)**



In a high-temperature expansion joint for connecting a thin-walled conduit to a comparatively massive casing having a wall defining an opening for receiving the conduit end portion and defining therewith a cylindrical recess, the combination of a first solid integral sealing ring disposed in said recess and exposed to the fluid in said casing and having an inner circumferential surface sealingly engaging the outer surface of the conduit and an outer circumferential surface defining a first radial clearance space with the wall of the recess, a second solid integral sealing ring disposed in said recess adjacent the first ring and exposed to fluid in the casing by way of said first clearance space and having an internal circumferential surface forming a radial clearance space with the outer surface of the conduit and an outer circumferential surface in sealing engagement with the wall of the recess, a third composite sealing ring including an annular housing ring comprising a first portion of L-shaped cross section and a second cover ring portion adapted to cooperate with the L-shaped ring to define an internal circumferential groove and a split packing ring disposed in said groove and having an internal circumferential surface sealingly engaging the outer wall of the conduit, the axial width of the split ring being slightly less than the axial width of the groove whereby the split ring is free to expand and contract resiliently while the pressure drop across the seal ring holds the split ring in sealing engagement with one side wall of the housing ring, a fourth sealing ring disposed in the recess adjacent the third ring and comprising an integral housing ring having an external circumferential groove with a second split ring disposed therein, said second split ring having an outer circumferential surface in sealing engagement with the wall of the recess, the housing ring portions of said third and fourth sealing ring assemblies forming radial clearance spaces with both the outer surface of the conduit and the inner surface of the recess, and retaining means for limiting axial movement of said sealing rings under the influence of fluid pressure within the conduit, whereby the pressure of the fluid maintains the respective abutting side surfaces of sealing rings in fluid-tight relation while compressive forces are transmitted from one composite sealing ring to the next through said housing rings and the split rings are free to expand and contract resiliently, the pressure drop holding the split rings in sealing engagement with one side wall of the housing ring grooves.



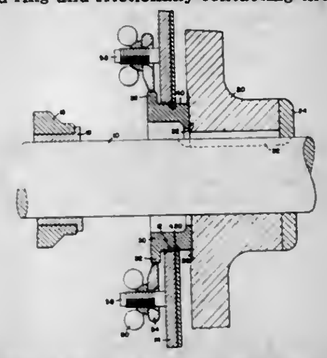
**2,649,316**
**GREASE SEAL SPACER**
**Reginald R. Beezley, Memphis, Tenn.**
**Application June 16, 1948, Serial No. 33,257**
**1 Claim. (Cl. 286—5)**



In a seal between an annular housing member and a rotating, substantially cylindrical, hub member concentric therewith, which seal includes an annular seal housing, an annular flexible wiper carried by said seal housing, and bolts, including a hub underlying bolt, removably securing said seal housing against an end of said housing member and concentrically around said hub member, with said wiper in sealing contact around, and under use grooving said hub member; an annular spacer having apertures receiving said bolts, and disposed between said housing member end and said seal housing displacing said wiper along said hub member and positioning said wiper on an unworn portion of said member, said spacer interiorly being downwardly notched into the hole for said hub underlying bolt, and said hub underlying bolt being grooved longitudinally from said spacer to one end thereof.

**2,649,317**
**REMOVABLE SEAL FOR FOOD PROCESSING EQUIPMENT**
**William H. Leuse, Cincinnati, Ohio, assignor to Triumph Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio**
**Application July 18, 1949, Serial No. 105,307**
**1 Claim. (Cl. 286—11.14)**

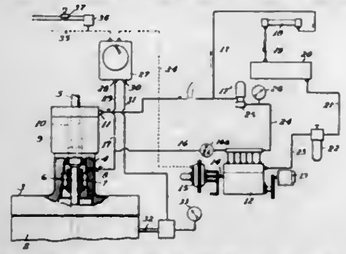
In a sanitary food processing apparatus, a housing having a wall formed with a large opening, a shaft rotatably mounted and passing through said opening concentric therewith, said shaft being of a diameter disposing the annular surface of the shaft well away from marginal walls of the opening, a member mounted about said shaft within said housing and having a hub portion keyed to the shaft to turn therewith, said member having a flat outer side bearing surface presented towards the opening and spaced from the inner surface of the wall through which the opening is formed, a sealing plate about said shaft engaging the inner end of the hub portion, a stiff cup-shaped ring disposed about said shaft and passed inwardly through said opening and projecting from the inner and outer surfaces of the wall and at its inner end having an internal annular flange spaced radially from said shaft, the inner end of said ring and its internal flange being flush with each other and disposed in flat face-to-face contact with the confronting, flat outer side bearing surface of the hub of said member, a sealing ring about said cup-shaped ring seated in a groove formed about the cup-shaped ring and frictionally contacting the marginal wall of said opening and compressed thereby and forming a sealed joint about the said cup-shaped ring, the outer end of the cup-shaped ring being formed with a pair of radially extending diametrically aligned recesses, a pressure plate circumscribing, spaced from and loosely fitting about the outer end of said cup-shaped ring and provided with a pair of radially extending diametrically aligned inwardly projecting fingers removably engaged in said recesses, a pair of diametrically aligned radial arms projecting outwardly from said pressure plate and formed with openings, said radial arms disposed on an axis at substantial right angles with the diametric axis through said fingers, threaded studs projecting outwardly from said wall and passing through the openings in said arms, and nuts screwed upon said studs and applying pressure against said arms and yieldably forcing the cup-shaped ring inwardly through the opening in the wall and against the confronting bearing surface of said member, for providing limited relative movement between said pressure plate and cup-shaped ring, between said pressure plate and said wall, and between said ring and said wall.



**2,649,318**
**PRESSURE LUBRICATING SYSTEM**
**Paul Skillman, New Kensington, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa., a corporation of Delaware**
**Application May 18, 1950, Serial No. 162,668**
**3 Claims. (Cl. 286—19)**

1. The combination with a pressure vessel having a motion-transmitting rod passing from the

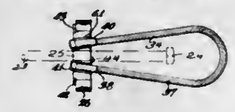
interior to the exterior thereof, spaced inner and outer stuffing boxes on the vessel around the rod, there being a fluid receiving space between the inner and outer packings, means including a closed fluid circulating system and variable output pump for supplying fluid to said space, and



means responsive to the pressure in the vessel and the pressure in the system connected with the pump and connected with said closed circuit for maintaining a controlled difference of pressure between the fluid in said vessel and the fluid in said space.

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**2,649,319**
**INSULATOR CLEVIS ATTACHMENT**
**John H. Giedhill, Philadelphia, Pa.**
**Application November 22, 1949, Serial No. 128,895**
**1 Claim. (Cl. 287—80)**

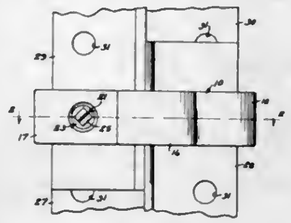


In a clevis insulator attachment, a clevis comprising a flexible cable and enlarged heads on the ends of the cable, a bail having five laterally interconnecting slots extending from one side to the other, there being at each opposite end a pair of laterally interconnected transverse slots and a middle slot between the two pairs which together make up said five slots, the innermost of the slots of each pair being larger than the clevis heads and converging toward the side of the bail away from that on which the clevis heads are inserted, the outermost transverse slot of each pair being larger than the clevis and smaller than the clevis head and the clevis head being in said outermost transverse slots in assembled relation, walls forming a socket on the bail in line with the smaller slot of each pair which receives and retains the clevis head and a fastener extending through the middle slot and having a head which extends over and blocks the larger slots of each pair when the fastener head is against the bail.

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**2,649,320**
**ANGLE POST SPLICING COLLAR**
**Takeo Sato, Honolulu, Territory of Hawaii**
**Application April 29, 1949, Serial No. 90,379**
**1 Claim. (Cl. 287—104)**

In a splicing collar, the combination which comprises a block of material having L-shaped slots with right angularly positioned legs extended therethrough, said slots being perpendicular to spaced faces of the block, one of the walls of each of said slots being positioned in one of two right angularly positioned and crossed planes and each of said walls meeting at a common point, the other wall of each of said slots being spaced from and parallel to the walls in the crossed planes, said block having sections extended around the extended ends of each of said



slots, and set screws threaded in each of the extended sections of the block and positioned whereby the ends thereof are adapted to extend through parts of structural elements extended through said slots.

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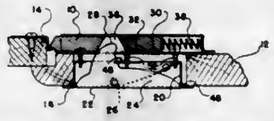
**2,649,321**
**VEHICLE DOOR LOCK**
**Glen A. Smith, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application December 8, 1945, Serial No. 633,671**
**17 Claims. (Cl. 292—5)**



10. In a door latch mechanism, a spring actuated and pivoted latch member adapted resiliently to engage a keeper, trigger means adapted to engage said latch member and to hold said latch member from disengagement with said keeper, a spring actuated plate member movable to different positions and having a part extending upon one end of said trigger and adapted to engage said trigger for moving said trigger in one direction, said plate member having one position wherein said part engages said trigger, a first operating means for moving said plate member in one direction and into one of said different positions relative to said latch member, said first mentioned part of said plate member during movement of said plate by said operating means in said one direction being adapted to engage said trigger and to move said trigger from a position engaging to a position disengaging said latch member, a second operating means being adapted to move said plate to a second position in which said first operating means is operatively disconnected from said plate, a cam surface on said trigger, a second part projecting from said plate member and adapted to engage said cam surface when said plate is moved to the second position, a third operating means being adapted to move said trigger independently of said first operating means, said cam surface during the movement of the trigger by said third operating means being adapted to slidingly engage said second plate part and to thereby return said plate to said first position.



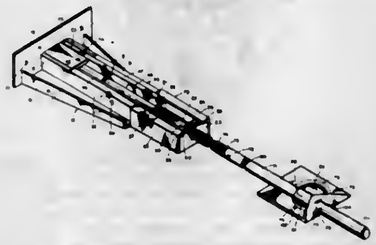
**2,649,322**
**FLUSH DOOR LATCHING MECHANISM**
**Grant Mack, Berkley, Mich.**
**Application May 20, 1946, Serial No. 670,880**
**6 Claims. (Cl. 292—173)**



1. A door latch comprising an outer plate for seating against the outer face of a door, the central portion of said plate being indented to occupy an opening of the door, an inner plate adapted to engage the inner face of the door in spaced relation to said indented portion, a bolt slidable on the inner plate, an actuator proportioned to substantially fit within said indented portion in a flush relation to the outer plate, means pivoting said actuator upon said indented portion to turn about an axis unequally distant from opposite ends of the actuator, and a tongue fixed on the actuator and extending through said indented portion for a camming reaction with the bolt to retract the bolt.

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**2,649,323**
**BOLT ASSEMBLY**
**Burnie J. Craig, Los Angeles County, Calif.**
**Original application May 3, 1944, Serial No. 533,958, now Patent No. 2,450,372, dated September 28, 1948. Divided and this application June 25, 1948, Serial No. 35,171**
**9 Claims. (Cl. 292—181)**

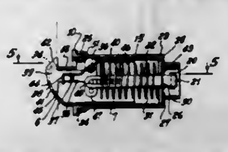


1. A latch assembly including a supporting base, a bolt member slidable on the base, the bolt member including a bolt head and a push member for the bolt head, the push member being mounted for rotation and including a portion remote from the bolt head which is adapted to engage and be pushed by a door frame to cause the bolt head to advance, resilient means normally urging the bolt head to retracted position, a catch release arm pivotally mounted on the bolt head, and means whereby rotation of the push member shifts the catch release arm.

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**2,649,324**
**DOOR LATCH**
**Theodore Kaneli, Los Angeles, Calif., assignor, by mesne assignments, to Alexandria Kompanies, Los Angeles, Calif.**
**Application January 23, 1950, Serial No. 140,080**
**5 Claims. (Cl. 292—191)**

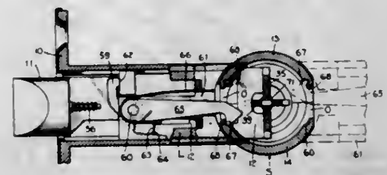
1. In a retractable door latch structure: a longitudinally movable hollow latch body; means forming a guide for the movement of said body; a detent pivotally mounted in the body on an axis transverse to the longitudinal movement of the body; said detent having a retractable operative portion extending through a slot in the body; resilient means for urging the detent to operating position; said detent having a surface adapted upon retraction of the detent to engage the latch body for limiting angular motion of the detent with respect to the latch body; and



means movable longitudinally of said body for applying a retracting force thereto, said means being attached to said detent at a place such that said movable means upon movement in a retracting direction overcomes said resilient means and moves said detent surface into engagement with said latch body to effect a connection between said movable means and said latch body.

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**2,649,325**
**REVERSIBLE TUBULAR LOCK MECHANISM**
**Frederic K. Heyer, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut**
**Application May 13, 1949, Serial No. 92,983**
**14 Claims. (Cl. 292—245)**



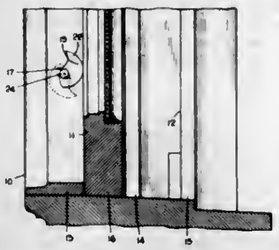
4. In a lock of the class described, a spindle housing, a spindle rotatably mounted in said spindle housing, a latchbolt housing, a latchbolt in said latchbolt housing, a latchbolt retractor in said latchbolt housing, means whereby movement of said latchbolt retractor inwardly of said latchbolt housing retracts said latchbolt, said spindle housing having opposed openings whereby said latchbolt retractor enters said spindle housing selectively at each of diametrically opposed positions to reverse the operation of the lock, and means on said spindle rotating and thereby moving said retractor inwardly of said latchbolt housing and outwardly of said spindle housing in each of said opposed positions.

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**2,649,326**
**ANTIRATTLING DEVICE FOR WINDOWS**
**Albert E. Giguere, Elizabeth, N. J.**
**Application May 4, 1949, Serial No. 91,258**
**1 Claim. (Cl. 292—342)**

A device for automatically retaining windows against rattling or movement, said device comprising a highly yieldable disc body, said body being defined by a convex surface, a concaved surface meeting the convex surface at one end of said body in a prong-like end, said body at the other end portion of said convex surface having an enlargement extending to the con-

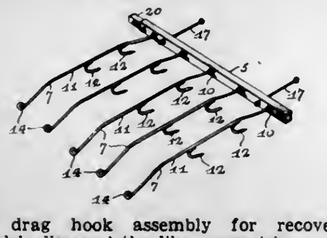
caved side of said body, and said enlargement having a mounting aperture positioned eccentrically with respect to said convex surface,



whereby the pronged end of the device will flex, permitting a window to descend upon sufficient pressure being applied thereto in a downward direction.

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**2,649,327**
**DRAG HOOK**
**Hermas Fortin, Hemmingford, and Antoine J. Gosselin, Ste. Blaise, Quebec, Canada**
**Application September 28, 1950, Serial No. 187,274**
**4 Claims. (Cl. 294—66)**



1. A drag hook assembly for recovering drowned bodies and the like, comprising a towing medium, a rigid frame secured to said towing medium, and a plurality of spaced parallel rigid hook-carrying bars having one end secured to said frame to extend from one side thereof, each of said bars being curved in its longitudinal direction to provide a bow-shaped section intermediate the ends of said bar, said bow-shaped section being disposed to overlie a plane extending between the opposite ends of said bar, and a plurality of pronged hooks spaced along the under side of said bow-shaped section and rigidly secured thereto with their prongs directed toward said frame so as to lie substantially within the said plane extending between the opposite end of said bar.

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**2,649,328**
**DEVICE FOR INSTALLING OR REMOVING STANDING VALVES**
**Edward E. Stevenson, Whittier, Calif., assignor to United States Steel Corporation, a corporation of New Jersey**
**Application March 23, 1951, Serial No. 217,223**
**6 Claims. (Cl. 294—88)**

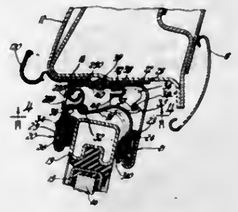
1. A gripper of the class described formed of a cylindrical body which contains a longitudinal passage of oblong cross-section, the two side walls of the body which form the elongated sides of said passage containing cut-outs which define upwardly facing shoulders to support a T-head, means for guiding the head between said passage and said shoulders, and circumferentially flexible integral leaf springs overhanging



said shoulders for interlocking the head therewith.

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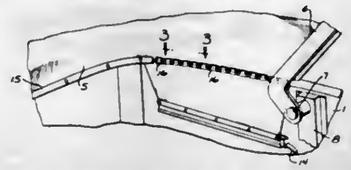
**2,649,329**
**HINGED FINISH MOLDING**
**David H. Bratton, Detroit, and James H. Wernig, Bloomfield Village, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application May 21, 1952, Serial No. 289,088**
**10 Claims. (Cl. 296—44.5)**



1. A hinged finish molding for weather sealing the joint between the door header and the vertically opening door window of swinging automobile doors comprising a fixed angular anchorage strip having one leg thereof securable horizontally along the door header and the other leg thereof depending therefrom, a swingable finish molding strip, hinge means connecting said swingable strip to said anchorage strip in spaced relationship to the depending leg thereof, actuating mechanism constantly urging said swingable finish molding strip horizontally outward composed of an arcuately movable off-set link element having spaced base portions and an off-set portion therebetween pivotally connected at its base portions to the horizontally disposed leg of said anchorage strip, said off-set link element being of spring wire having an extended end torsionally anchored to the said horizontally disposed leg resiliently pivoting its off-set portion about its base portions toward said swingable finish molding strip, an actuating lever engageable by a fixed door member when said door is closed pivotally connected to said swingable finish molding strip outwardly of the hinge thereof and to said off-set portion of said off-set link element, said off-set link element being spring loaded to pivot the off-set portion thereof toward said swingable finish molding strip whereby to constantly urge said swingable finish molding strip toward its horizontally outward position.



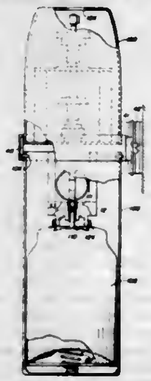
**2,649,330**
**AUTOMATIC REAR QUARTER WEATHER SEAL FOR AUTOMOBILE BODIES WITH CONVERTIBLE TOPS**
**Clyde H. Schamel, Royal Oak, and Harry A. Mackie, Bloomfield Hills, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application June 29, 1951, Serial No. 234,206**
**6 Claims. (Cl. 296—107)**



2. An automobile body with a convertible top having in combination an underbody or tonneau with a rear quarter structure including an outside rear quarter panel forming at the top a metal belt rail, a folding top having the top material at the rear quarter fastened to the inside of the tonneau a considerable distance below the top, and magnetic sealing means for weathersealing the joint between the flexible top material and the belt rail, said magnetic sealing means comprising a line of permanent magnets fastened to the top closely adjacent each other and arranged with like poles adjacent so that the magnets oppose each other and form a continuous line of magnetic attraction between the metal rail and the magnets, said line of magnets being positioned on said flexible top so that when said top is raised, the magnets are located adjacent the metal belt rail and are attracted to said metal rail forming a continuous seal between the flexible top material and said rail.

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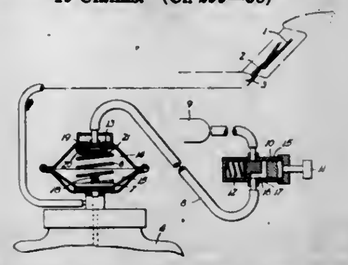
**2,649,331**
**DEVICE FOR INTERMITTENTLY DISCHARGING FLUID UNDER PRESSURE**
**Gordon M. Peltz, Flushing, and Henry Bovin, New York, N. Y., assignors to Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut**
**Application August 9, 1950, Serial No. 178,396**
**2 Claims. (Cl. 299—25)**



1. A device for intermittently discharging fluid from a supply of fluid under pressure, said device including, in combination, a fluid chamber having a reciprocative wall, said chamber having a fluid discharge outlet and a fluid inlet for connection with said source and which provides more resistance to fluid flow than does said outlet, a valve controlling said outlet, a spring applying closing force to said valve, a second spring continuously biasing said wall to contract and receiving and storing the wall's expansion, a third spring having one portion moving with said wall and a second portion and a third portion therebetween which receives and stores said wall's expansion force when this second portion is held against moving with said wall, a latch for holding said second portion against so moving, a release for said latch and which is operated by a predetermined amount of expansion motion of said wall, means transmitting the released force from said third spring to said valve to force it open against the closing force of the first-named spring, said third spring being stronger than said first spring, a second latch for holding said valve open as said second spring contracts said wall, and a release for said second latch and which is operated by a predetermined amount of contracting motion of said wall.

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**2,649,332**
**WINDSHIELD CLEARING SYSTEM**
**Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.**
**Application April 28, 1948, Serial No. 23,778**
**19 Claims. (Cl. 299—58)**



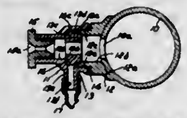
8. A windshield washer mechanism for displacing liquid from a reservoir and discharging it onto a windshield surface, comprising a pump having a fluid displacing member with an intake stroke and a delivery stroke, energy storing means acting constantly upon said member for effecting one stroke, power means operable to effect the other stroke of said displacing member in counteraction of said first means, and means operable by the displacing member at the end of its other stroke for freeing said displacing member from said power means to enable the first means becoming operative, said power means comprising a pneumatically operated piston connected to the displacing member and being of relatively larger cross sectional area, said pump having an inlet and a relatively smaller outlet.

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**2,649,333**
**METHOD AND APPARATUS FOR FLUID MIXING AND SPRAYING**
**Raymond J. Miller, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware**
**Application February 21, 1950, Serial No. 145,528**
**14 Claims. (Cl. 299—64)**

1. A spraying and mixing nozzle comprising a hollow body having a bore extending therethrough, a porous mass of sintered particles

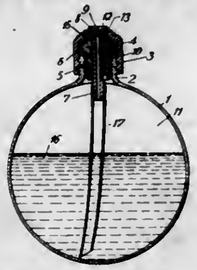
mounted in said bore and cooperating with a portion of said bore to define a fluid chamber separated from the remainder of said bore, means for connecting one end of said bore to a source of pressured primary fluid, and means for con-



necting said fluid chamber to a source of secondary fluid pressured to a higher value than said primary fluid, the pressure differential between said primary and secondary fluids being proportioned to the porosity of said porous mass, whereby a desired proportional mixture of said fluids is discharged from the other end of said bore.

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**2,649,334**
**ATOMIZER**
**Hans Schneider, La Chaux-de-Fonds, Switzerland, assignor of one-half to Jules Schneider, La Chaux-de-Fonds, Switzerland**
**Application August 21, 1950, Serial No. 180,642**
**In Switzerland August 24, 1949**
**4 Claims. (Cl. 299—89)**



1. An atomizer having a resiliently compressible receptacle provided with an opening therein, a spray nozzle mounted in said opening, said nozzle having an axially extending central bore open towards the interior of the receptacle and closed at the top of the nozzle, and having a radially directed spray hole near the top of the nozzle, a metal tube inserted into said nozzle bore, said tube having its outer wall provided with a longitudinal groove to form a passage-way between the tube and the wall of the nozzle bore establishing communication between the interior of the receptacle and said spray hole in the nozzle top, a rising tube connected to the inner end of said metal tube and reaching towards the bottom of the receptacle, said metal tube having its outer end abutting against the closed top of the nozzle and having a radially directed hole provided in proximity to its closed outer end, said hole opening into said passage-way between the tube and the wall of the bore in the nozzle and being in alignment with said spray hole in the top of the nozzle.

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**2,649,335**
**PORTABLE SPRAY PUMP**
**Fred W. Funke, Oakland, Calif.**
**Application February 14, 1950, Serial No. 144,118**
**6 Claims. (Cl. 299—97)**

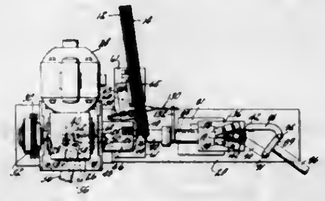
1. A portable spray pump of the character described comprising; an outer elongated tubular body and an inner elongated tubular body, an inlet at one end of said outer body and a check valve for preventing egress of fluid from said outer body, said inner body being reciprocably slidable into said outer body through the opposite end of said outer body, a check valve carried by said inner body at the end adjacent said inlet



and opening into said inner body upon movement of said inner body toward said inlet, an annular sealing ring between the end of said inner body adjacent said inlet and the inner surface of said outer body, and a discharge nozzle on the end of said inner body remote from said inlet and sealing ring, a non-tight lubricating wiper ring between said opposite end of said outer body and said inner body.

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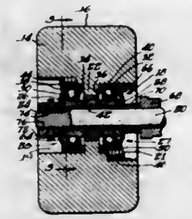
**2,649,336**
**BRUSHMAKING MACHINE**
**Alfred F. Anderson, East Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut**
**Application October 25, 1950, Serial No. 192,091**
**23 Claims. (Cl. 300—2)**



1. In a brush winding machine, the combination of a driving member rotatable about a longitudinal axis and having an exposed end portion, means for rotating the said member to a predetermined limited extent, an arbor supported independently of the driving member and rotatable coaxially therewith, the said arbor having an exposed end portion facing the said end portion of the driving member and the said arbor being longitudinally movable into and out of an engaged position wherein it is connected with the driving member for rotation in unison therewith, guiding means for a brush strip having a channel member which guiding means frictionally resists movement of the channel member of the strip, means for connecting the leading end portion of the brush strip channel member with the arbor to cause the said strip to be drawn through the said guiding means and to be wound on the said arbor to form a brush upon rotation of the arbor in unison with the driving member, and mechanism for moving the arbor longitudinally into its said engaged position prior to winding and for moving it longitudinally out of its said engaged position after winding to permit the wound brush to be removed from the arbor at the said exposed end thereof.



**2,649,337**
**ROLLER STRUCTURE**
**Walter Ware, Chicago, Ill., assignor to Chicago Roller Skate Company, Chicago, Ill., a corporation of Arizona**
**Application June 8, 1949, Serial No. 97,858**
**5 Claims. (Cl. 301—5.7)**



1. A roller skate wheel comprising a body having a central aperture therein and a tread surface, a pair of bushings positioned within said aperture, the outwardly disposed sides of said bushings being spaced inwardly from the adjacent side of the body, a groove formed on the circumference of each of said bushings, and only one set screw positioned in the groove of each bushing and engaging the body to hold said bushings in position within said body, said grooves and the associated set screws being diagonally disposed and symmetrically arranged with respect to said aperture whereby to provide a balanced roller skate wheel.

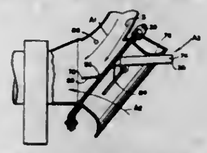
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**2,649,338**
**AUXILIARY SPACER FOR DUAL TIRE WHEEL ASSEMBLIES**
**Harry H. Duncan, Milan, Tenn., and J W Volner, Chandler, Ariz.**
**Application October 8, 1951, Serial No. 250,376**
**12 Claims. (Cl. 301—13)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. In a dual wheel spider having a hub and a plurality of radiating spokes, the combination with an outwardly projecting rib on each spoke end providing inboard and outboard shoulders seating inboard and outboard spacer rings for the rims of inboard and outboard tires; of auxiliary spacer means for said spacer rings, means mounting said auxiliary spacer means atop said ribs, said auxiliary spacer means having portions projecting outwardly of said ribs and bearing against said spacer rings to supplement the action of said shoulders in preventing axial movement of said spacer rings toward each other.

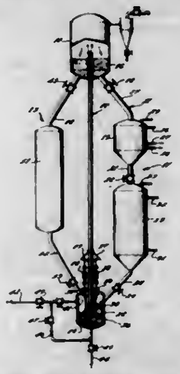
**2,649,339**
**AUTOMATICALLY RESETTING DIVERTER FOR PNEUMATIC CONVEYERS**
**Donald E. Schaetzel, Minneapolis, Minn., and Randall J. Childress, Norwalk, Calif., assignors to General Mills, Inc., a corporation of Delaware**
**Application June 28, 1950, Serial No. 170,892**
**16 Claims. (Cl. 302—17)**



1. A combination material supply diverter and air inlet valve for a pneumatic conveyer having a supply hopper through which air and stock are fed, and a suction leg intake located below and laterally offset from the hopper, which comprises an enclosed material supply chute connecting the hopper and intake and having a lower wall inclined downwardly from the hopper to the intake, said wall having an air inlet opening defined by upper and lower edges, and a diverter plate mounted in the opening for rotation on a horizontal axis extending transversely of the opening between a first or operating position in which the plate is inclined with a first end of the plate extending upwardly and outwardly of the chute from said axis and a second end extending downwardly and inwardly of the chute from the axis and a second or dumping position in which the plate is oppositely inclined, with said first end extending downwardly and outwardly from the axis and said second end projecting upwardly and inwardly from the axis, said first end of the plate being heavier than said second end to urge the plate from first to second position at all times.

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**2,649,340**
**OPERATION PROCEDURE FOR GAS LIFTS**
**William W. Weinrich, Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware**
**Application June 14, 1950, Serial No. 168,026**
**2 Claims. (Cl. 302—66)**

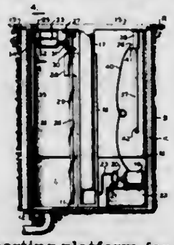


1. In the operation of a gas lift forming the upflow path of a pressure balanced system through which granular material is continuously circulated, which system includes a down-flow path

wherein said material gravitates as a compact non-turbulent mass enveloping, at the lower end thereof, the lower end of the lift path, the elevation of said material being effected by introducing the major portion of the lift gas into said mass in a confined stream discharging immediately adjacent the lift path inlet and the minor portion thereof into said mass at a point remote from said lift path inlet but in such proximity thereto as to provide the principal flow rate control for said material, the method of shutting down said lift which comprises the sequential steps of: cutting off the flow of said minor portion of the lift gas, thereby reducing said flow rate to a relatively low value, cutting off the gravitational flow of said granular material at a point along said down-flow path, withdrawing from the upper end of said up-flow path at least a portion of the total granular material contained within said lift path and within the portion of said down-flow path below said point, and cutting off the flow of said major portion of the lift gas so as to interrupt the circulation of said granular material, whereby upon said interruption, a minimum of said granular material remains within said lift path to settle and form an accumulation at the lower end of said lift path.

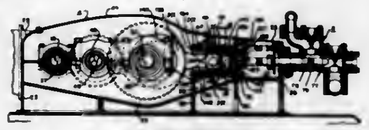
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**2,649,341**
**ADJUSTABLE PLATFORM FOR TRAFFIC DIRECTION**
**Charles W. Stepler, Chambersburg, Pa.**
**Application November 2, 1949, Serial No. 125,135**
**6 Claims. (Cl. 304—29)**



6. In a supporting platform for traffic direction mounted for vertical movement within a shaft disposed below the surface of a roadway, a vertically disposed sleeve lining said shaft, a platform normally seated upon the upper end of said sleeve with the upper surface of said platform substantially flush with the surface of the roadway, a centrally located and vertically disposed cylinder within the sleeve, a piston depending from said platform and slidably disposed within said cylinder, means operatively connected to the piston for raising and lowering said piston and platform, a guard rail for said platform normally disposed in a position substantially flush with the upper surface of said platform, supporting bars depending from said guard rail and through said platform, a rack on one of said supporting bars, a pinion engaging said rack, driving means for said pinion comprising a vertically disposed shaft depending from said platform, a lug on the cylinder slidably engaging said shaft, a spiral spline on said shaft, a complementary spiral spline in said lug engaging said first mentioned spline, and gearing for transmitting rotative movement from said shaft to the pinion engaging the rack on the supporting bar whereby said guard rail will be raised and lowered from a normally retracted position to a position above the platform simultaneously with the raising and lowering of said platform.

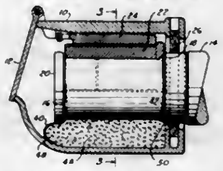
**2,649,342**
**CROSS-HEAD CONNECTION**
**Albert A. Ashton, Houston, Tex., assignor to Emsco Manufacturing Company, Los Angeles, Calif., a corporation of California**
**Original application March 6, 1948, Serial No. 13,459. Divided and this application October 29, 1949, Serial No. 124,454**
**5 Claims. (Cl. 308—3)**



1. In a cross-head connection for transmitting thrust between a driving member and a driven member, a cross-head for connection to one of said members, said cross-head having spaced bearing walls, a pin positioned between said bearing walls for securing an end of the other of said members to the cross-head, a locking member retaining said pin against axial removal, cross-head guides respectively engaged by the bearing walls, one of said guides and its associated bearing wall having openings brought into registration at a predetermined position of the cross-head for access to and removal of the locking member to release said pin.

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**2,649,343**
**WASTE GRAB PREVENTER AND LUBRICATING DEVICE**
**Elum L. Yelverton, Laurel, Miss.**
**Application January 24, 1952, Serial No. 268,070**
**7 Claims. (Cl. 308—89)**



1. In combination with a journal box, a journal, a bearing, and a wedge positioned between the bearing and the upper portion of the journal box, a waste grab preventer and lubricating device which comprises a frame positioned between the wedge and the bearing with the side portions thereof extending downwardly on each side of the journal, foraminous material fastened to the bottom edges of the frame side portions and forming a loop below the journal and with the ends of the foraminous material extending beyond the ends of the frame side portions, lubricating packing material positioned between the foraminous material and the bottom of the journal box thus forcing the foraminous looped portion in folds against the lower part of the journal, and the extended ends of the foraminous material holding said lubricating packing material in a compacted and confined area.

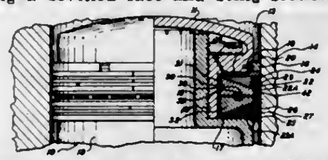
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**2,649,344**
**PISTON RING**
**Walter Lee Unger, San Gabriel, Calif.**
**Application July 24, 1948, Serial No. 40,458**
**20 Claims. (Cl. 309—27)**

1. A ring assembly for pistons comprising a first and second annular ring disposed around



the piston and each having at least one groove in the periphery thereof, a split inlay ring in each of the peripheral grooves, the annular rings each having a bevelled face and being sectioned for



expansion thereof, and a spring loaded balance ring disposed between the first and second annular rings and having opposite bevelled faces bearing against the bevelled faces of the first and second annular rings.

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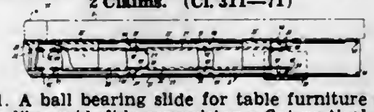
**2,649,345**
**HEIGHT-ADJUSTABLE TABLE**
**Albert L. Hubbard, Compton, Calif.**
**Application September 6, 1952, Serial No. 308,185**
**6 Claims. (Cl. 311—39)**



1. A height-adjustable table having a hollow pedestal and a telescopically fitted column provided with a table top, counter-balancing means for said column and table top comprising a support standard in the interior of the pedestal and affixed thereto, a pair of coplanar grooved pulleys rotationally carried by the upper portion of said standard, a member disposed substantially between said pulleys and affixed to the lower portion of the column, a cable connected to said member and trained over each pulley to extend downward from the opposite edges of said pair of pulleys, and a weight on the end of each downwardly extending part of the cables, the weights being equal and the weight of both weights being greater than the weight of the column and its table top.

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**2,649,346**
**BALL BEARING SLIDE STRUCTURE FOR TABLE FURNITURE**
**Benjamin A. Woina, Salem, and Archer W. Richards, Chagrin Falls, Ohio, assignors to American Fixture and Manufacturing Co., St. Louis, Mo., a corporation of Missouri**
**Application March 10, 1950, Serial No. 148,871**
**2 Claims. (Cl. 311—71)**



1. A ball bearing slide for table furniture and the like, said slide comprising a flat vertical web integrally provided along its upper and lower margins with oppositely curved arcuate flanges terminating in spaced parallel margins in the formation of a section having a somewhat C-shaped cross-sectional contour, two relatively short slides telescopically mounted in endwise aligned relation within each channel, said slides each comprising a flat web approximately as wide as the space between margins of the channel for fitting closurewise thereacross, the webs of said slides each being integrally provided along its upper and lower margins with inwardly extending arcuate flanges, the upper such flange being curved oppositely to and complementary with the upper flange of the channel to form an upper raceway and, similarly, the lower flange of the slides each being curved oppositely to and complementary with the lower flange of the channel to form a lower raceway, and ball bearings operatively mounted in said raceways, said ball bearings being slightly larger in diametral size than the normal height of said raceways for placing the webs of the channel and slides under stress when the ball bearings are operatively installed in said raceways.

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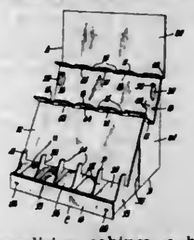
**2,649,347**
**CABINET MODEL CAN OPENER**
**Walter E. Moore, Bel Nor, Mo., assignor to Swing-A-Way Manufacturing Company, St. Louis, Mo., a corporation of Missouri**
**Application August 24, 1950, Serial No. 181,121**
**8 Claims. (Cl. 312—22)**



1. A cabinet mounting for enclosing a can opening mechanism having means for demountable attachment to a wall and including a hinged door, means for retaining the door in its closed position, means for retaining the door in its opened position, said retaining means comprising detent mechanism for locking the door in a position substantially normal to the wall for a can cutting operation and means on said cabinet for releasing the door from the locked position, said door including a deformed plate-like element constituting the supporting frame of a can opening mechanism which is in integral relation with said door element.

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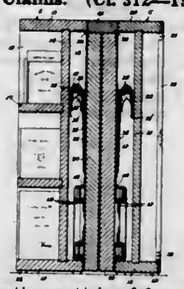
**2,649,348**
**COUNTER DISPLAY FOR FLASHLIGHTS AND BATTERIES**
**James C. Calhoun, New Haven, and Wilbur L. Davidson, Canterbury, Conn., and Karl J. Hansen, Forest Hills, N. Y., assignors to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware**
**Application November 18, 1948, Serial No. 60,762**
**1 Claim. (Cl. 312—45)**



In a merchandising cabinet, a body comprising side walls, back wall and front wall, said back wall having a charge opening, said front wall having a dispensing opening, a bottom wall sloping forwardly and downwardly from the lower edge of said charge opening and meeting with a forwardly and upwardly sloping easer wall con-

nected to the lower edge of said dispensing opening, reinforcing members, each comprising a central panel connected to said bottom wall, said panels having upstanding side panels forming partitions and dividing the space over said bottom wall into chutes, the upper edge of said dispensing opening being displaced rearwardly of its lower edge, said partitions being secured to the upper edges of said dispensing and charge openings, the forward edges of said partitions and the portion of said front wall above said dispensing opening being inclined upwardly and backwardly.

**2,649,349**
**COMBINATION ARTICLE OF FURNITURE**
**Nathan Goodrich, Brooklyn, N. Y.**
**Application February 8, 1951, Serial No. 209,959**
**4 Claims. (Cl. 312—199)**



1. A combination article of furniture comprising a pair of complementary sections, each having a top, a bottom and sides, with open front and back, and a transverse vertical partition therein between said front and back, a table top hinged at the back of each section and normally folded flat against said back each section having a space behind said partition adjacent its back then closed by said table top, said sections being normally arranged in back to back relation, link means swingably connecting said sections together at one side permitting said sections to be swung to front to front relation to facilitate the raising of the table tops, folding legs carried by said table tops for supporting the same in raised position when said sections are opened and disposed in said spaces when said tops are folded against said sections, and releasable latch means for securing said sections in closed back to back relation.

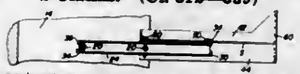
**2,649,350**
**FOLDABLE CABINET**
**Edward Dickerson Backus and Jack Siegel, Bennettsville, S. C.**
**Application July 27, 1948, Serial No. 40,964**
**1 Claim. (Cl. 312—258)**

A cabinet adapted to be prefinished and shipped in collapsed form, and forming in assembled set-up condition a rigid cabinet comprising a front wall, side walls, a back panel, a bottom wall, and vertical reinforcing bars secured to said front wall, and of slightly lesser length than the height thereof, adjacent the sides thereof, vertical grooves in said front wall outwardly of said bars, tongues on the edges of said side walls engageable in said grooves and flat L-shaped hinge members each having one leg pivotally secured to one end of one of said reinforcing bars and the other leg fixedly secured to an adjacent edge of one of said side walls; the pivotally secured legs of the hinges secured to opposite ends of one of said reinforcing bars being longer than those secured to the other of said reinforcing bars and the pivotally secured longer leg having its pivot spaced a greater distance from the adjacent side



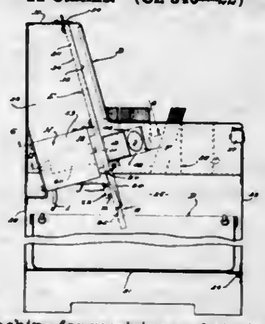
wall and the outer vertical edge of its associated reinforcing member than the pivot point of the other pivotally secured leg is spaced from its adjacent side wall and the outer edge of its associated reinforcing member whereby said side walls will fold in overlapping relation.

**2,649,351**
**REFRIGERATOR TRACK AND DRAWER CONSTRUCTION**
**Morris Rothchild, Brooklyn, N. Y.**
**Application June 15, 1950, Serial No. 168,291**
**2 Claims. (Cl. 312—339)**



1. A cabinet structure comprising a pair of side walls, a plurality of guide rollers carried by each side wall, a pair of channel shaped guides slidably mounted on said rollers, said guides each including a forward end and a rear end, an ear rising from the forward end of each guide, means at the rear end of each guide preventing removal of the guides from the guide rollers and adapted to engage certain of said rollers to limit sliding movement of said guides on said rollers, a drawer having a reduced lower portion received between said guides and side ledges above said lower portion overlying said guides, rollers carried by said ledges and projecting through the ledges to rest upon the guides, said ledges having slots therein slidably receiving said ears, and means carried by the lower portion of said drawer and extendable beneath the guides to lock the drawer on the guides and thereby prevent lifting of the drawer from the guides.

**2,649,352**
**MACHINE FOR RECORDING TIME ON AND STORING COIN CARRIERS**
**Chester A. Frick, Glendale, Calif., assignor to Leo M. Harvey, Los Angeles, Calif.**
**Application April 23, 1948, Serial No. 22,893**
**11 Claims. (Cl. 346—22)**



1. A machine for receiving and storing an article and recording the time of reception including, a closed housing adapted to receive and store the

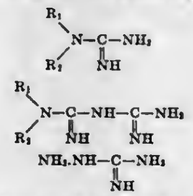


article, a substantially straight chute with a continuous passage therethrough conducting the article in the housing and depositing it therein, releasable stop means acting to momentarily stop movement of the article in the passage of the chute, an electrically driven clock controlled time printer in the housing, electromagnetic means operating the printer, and a control for the last mentioned means including a control switch having an operating arm at the chute above the stop means adapted to be actuated by the article while stopped by the stop means.

# CHEMICAL

**2,649,353**
**DYEING OF NYLON AND ACETATE SILK IN SITU WITH ICE COLORS**
**Clemens Streck, Loudonville, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application February 23, 1950, Serial No. 145,715**
**8 Claims. (Cl. 8—46)**

1. In the process of dyeing nylon on the fiber by impregnating the fibers with an amine base and a Naphthol AS coupling component simultaneously and subsequently diazotizing the base and coupling the diazo with the coupling component, the improvement which comprises effecting the impregnation of the fibers with said coupling component in the present of an amount of a guanidine compound at least molecularly equivalent to the Naphthol AS but within the limits of 1% to 5% by weight of the fibers to be dyed, said guanidine compound selected from the class consisting of those of the following formulae:



wherein $R_1$ and $R_2$ are selected from the class consisting of hydrogen, alkyl, aryl, aralkyl and cycloalkyl, and the salts of such compounds.

2. The process as defined in claim 1 wherein the fibers are impregnated in the presence of the guanidine compound with an aqueous solution of the amine base and the coupling component.

**2,649,354**
**PROCESS FOR IMPROVING FASTNESS PROPERTIES OF DIRECT DYESTUFFS**
**Hans Martin Hemmi, Basel, Switzerland, and Paul Trefzer, Milan, Italy, assignors to Sandoz Limited, Basel, Switzerland, a Swiss firm**
**No Drawing. Original application December 1, 1947, Serial No. 789,134. Divided and this application February 8, 1950, Serial No. 143,162. In Switzerland December 3, 1946**
**11 Claims. (Cl. 8—74)**

1. A process for improving the fastness properties of dyeings and printings produced with direct dyestuffs which comprises treating such dyeings and printings with a member selected from the group consisting of a water-soluble polymeric organic nitrogen compound, obtained by heating, as sole reactants, one mol of an amine of the formula

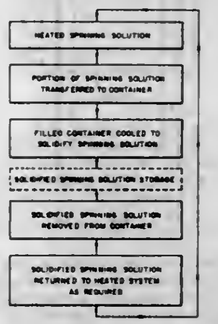
$$H_2N(C_2H_4NH)_mC_2H_4NH_2$$

wherein $m$ is a positive integer, with two equivalents of a compound selected from the group consisting of monomeric and dimeric cyanamide until ammonia is evolved and then raising the temperature to between about 125° and about 180° C. and maintaining it between these limits for several hours, and the water-soluble salts and complex copper compounds thereof.

**2,649,355**
**MANUFACTURE OF LEATHER**
**Theodore White and Jeremy Ralph Barnes Hastings, London, England, assignors to The Forestal Land, Timber and Railways Company Limited, London, England, a British company**
**No Drawing. Application October 10, 1950, Serial No. 189,481. In Great Britain October 14, 1949**
**13 Claims. (Cl. 8—94.33)**

1. A process for the manufacture of leather which comprises impregnating hides with a condensation product of at least one aldehyde of the formula RCHO, wherein R is selected from the group consisting of hydrogen and saturated and unsaturated alkyl groups having from one to four carbon atoms, with at least one ketone of the formula R'R''CO, wherein each of the substituents R' and R'' is an alkyl group, wherein R' plus R'' is not more than four carbon atoms, and treating the impregnated hides with an inorganic alkaline solution having a pH between 7 and about 12.

**2,649,356**
**METHOD OF HANDLING POLYMERIC COMPOSITIONS**
**Herman A. Bruson, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware**
**Application October 13, 1950, Serial No. 190,058**
**4 Claims. (Cl. 18—54)**




1. A process for handling and reclaiming an ethylene carbonate spinning solution of an acrylonitrile polymer which is being extruded from a heated system through a spinneret while in a fluid state, the steps comprising collecting said material in a container; cooling said material in said container to a temperature below about 20° C.; removing the resulting cooled and solidified

material from said container; returning said solidified material to said heated system; reusing said container for the collection of additional quantities of said spinning solution, without performing any polymer cleaning operation on said emptied container between said emptying and refilling operations; said solution comprising ethylene carbonate and an acrylonitrile polymer dissolved therein having in the polymer molecule at least about 80% by weight acrylonitrile; said spinning solution containing between about 15 and 25% by weight of polymeric material; the walls of said container sloping inwardly toward the bottom thereof.

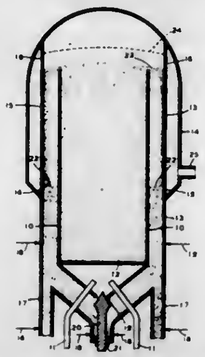
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**2,649,357**
**PRODUCTION OF ARTIFICIAL PROTEIN THREADS, FIBERS, FILAMENTS, AND THE LIKE**
**Frank Happey, Bingley, and Robert L. Wormell, Coventry, England, assignors to Conrtauids Limited, London, England, a British company**
**No Drawing. Application September 18, 1951, Serial No. 247,194. In Great Britain October 12, 1950**
**9 Claims. (Cl. 18—54)**

1. A process for the oxidative pretreatment of keratin preparatory to its solution in an aqueous alkaline solvent, which comprises subjecting the keratin to the action of hydrogen peroxide in the presence of ferrous sulphate and an acid chosen from the group consisting of sulphuric acid, phosphoric acid and acetic acid.

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**2,649,358**
**CONTACTING GASES AND SOLIDS**
**George H. Palmer, Fanwood, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware**
**Application January 7, 1947, Serial No. 720,659**
**17 Claims. (Cl. 23—1)**



4. A method for separating a gas from finely divided solids suspended therein which comprises passing a stream of gas containing suspended solids to a porous membrane which is arranged substantially vertical and which is substantially impervious to said solids, said porous membrane permitting the gas to pass therethrough and at least some of the suspended solids to remain adhering to the surface thereof, and passing a portion of finely divided solids in addition to the amount of solids which are present as a suspension in the aforesaid gas stream downwardly over the surface of the porous membrane on the same side at which the solids are adhering thereto in order to scour the same therefrom.

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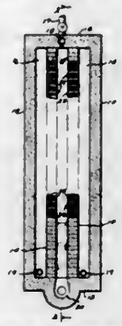
**2,649,359**
**DEVICE FOR DOSING UREA IN BLOOD AND IN URINE**
**Francesco Paolo Masellis, Rome, Italy, assignor to "Aesculapius" S. r. l., Milan, Italy, a firm**
**Application May 7, 1951, Serial No. 224,970**
**In Italy September 30, 1950**
**4 Claims. (Cl. 23—254)**



1. Volumetric gas analytical device comprising a horizontally mounted reaction chamber, a vertically mounted fluid supply chamber communicating with one end of said reaction chamber, said fluid supply chamber having a stop cock mounted at its lower end for control of fluid passage to said reaction chamber, a graduated volumetric burette mounted invertedly vertically upon said apparatus with an open end extending downwardly therefrom and the opposite end communicating with the upper horizontal portion of said reaction chamber, and additional valve means for venting said reaction chamber and burette to the atmosphere.

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**2,649,360**
**CARBON BLACK FURNACES**
**Ernest B. Miller, Houston, Tex., assignor to Jefferson Lake Sulphur Company, New Orleans, La., a corporation of New Jersey**
**Application January 24, 1949, Serial No. 72,425**
**3 Claims. (Cl. 23—259.5)**



1. In a carbon black furnace of the down-draft type having generally rectangular vertical side and end walls; a pair of spaced refractory walls within the furnace parallel with the side walls extending from top to bottom and defining a narrow reaction chamber not more than about six inches wide and an air chamber on each side between them and said side walls; a gas manifold in the upper end of said reaction chamber; air inlet conduits in the lower ends of said air chambers; said refractory walls of the reaction chamber having a multiplicity of small transverse slots extending therethrough and uniformly distributed throughout the working area of the reaction chamber to permit the introduction of air from the air chambers to the reaction chamber on opposite sides of the stream of gas passing therethrough; said slots being arranged in substantially horizontal rows with the slots in each row staggered with respect to the slots in the adjacent rows and each slot having a very small air inlet orifice leading from the air chamber and being horizontally flared toward the reaction chamber to permit the air to flow in relatively wide streams into said reaction chamber and thereby cause flames to wipe the entire inside surface of each refractory wall throughout the working height of the reaction chamber; and the total cross sectional area of the small ends of said slots in both walls being between about one-fourth and one-tenth of the horizontal cross sectional area of the reaction chamber.



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**2,649,361**
**METHOD OF DISSOLVING METALS AND COMPOSITION THEREFOR**
**Richard Springer, Leipzig, Germany, and Walter R. Meyer, Hamden, Conn., assignors to Enthone, Incorporated, New Haven, Conn., a corporation of Connecticut**
**No Drawing. Application December 24, 1949, Serial No. 135,037. In Germany May 13, 1949**
**14 Claims. (Cl. 41—42)**

1. A metal-dissolving composition for dissolving metals by chemical action containing at least one water-soluble alkali cyanide that is ionizable in water to the extent to yield at least 2.5 grams of cyanide radical per liter of aqueous solution, and at least one nitro-substituted aromatic compound capable of producing an electrical potential of minus 0.9 volt or higher between a sheet nickel electrode and a saturated potassium chloride calomel electrode, the nitro benzo grouping of the nitro-compound being, by weight, equal to more than one-tenth of one percent of the cyanide radical, and the composition being alkaline in reaction and being substantially free from nickel, copper, cadmium, silver, zinc and gold.

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**2,649,362**
**ABRASIVE COMPOSITION**
**Chester C. Fowler, Evanston, Ill., assignor, by mesne assignments, to Marino, Inc., Chicago, Ill., a corporation of Illinois**
**No Drawing. Application February 28, 1950, Serial No. 146,919**
**5 Claims. (Cl. 51—309)**

1. A composition for improving the cutting efficiency of cutting implements having closely engaging cutting surfaces which comprises essentially a mixture of water soluble poly alkyl compositions selected from the group consisting of polyoxyethylene glycol, polyoxyethylene carboxylates, and polyoxyethylene stearate having therein between about 16 and 63% of a said poly alkyl composition with a molecular weight of at least 1000 and between about 20 and 33% of a said poly alkyl composition with a molecular weight less than 1000 as a base material, and a finely divided abrasive material selected from the group consisting of alumina, silica, rouge, carborundum and graphite distributed throughout the said base material, whereby an abrasive composition is formed which is readily removed from the cutting surfaces.

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**2,649,363**
**REGULATION OF THE GROWTH OF UNDESIRED VEGETATION**
**Arthur W. Sweeey, Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
**No Drawing. Application July 13, 1949, Serial No. 104,587**
**10 Claims. (Cl. 71—2.7)**

1. A method for the control of undesired plant growth which comprises contacting the leaf surfaces of the plants with a haloacetic acid compound of the group consisting of (1) monohaloacetic acids of the formula:

$$X-CH_2-\overset{O}{\overset{\|}{C}}-OH$$

wherein X represents one of the halogens chlorine, bromine and iodine, and (2) their water-soluble salts, such compound being employed at a dosage exerting a phytotoxic action against the plant growth concerned.

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**2,649,364**
**MATURING OF CROPS**
**Richard N. Raynor, Danville, and Doane Stewart, Sacramento, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
**No Drawing. Application July 28, 1949, Serial No. 107,393**
**12 Claims. (Cl. 71—2.7)**

1. A method for promoting the maturing of crops and facilitating of harvest which includes the step of applying to the crops near the end of their normal growing season a water-soluble compound of the group having the formula

$$(X-CH_2-\overset{O}{\overset{\|}{C}}-O-)_n W$$

wherein X represents a halogen of the group consisting of chlorine, bromine and iodine, W represents one of the group consisting of hydrogen and a salt-forming ion, and $n$ represents an integer equal to the equivalency of W, such compound being employed at a dosage sufficient substantially to accelerate the maturing of the crops.

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**2,649,365**
**MATURING OF CROPS**
**Richard N. Raynor, Danville, and Doane Stewart, Garden Grove, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
**No Drawing. Application November 29, 1951, Serial No. 258,994**
**4 Claims. (Cl. 71—2.7)**

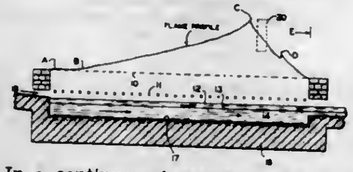
1. A method for promoting the maturing of crops and facilitating of harvest which includes the step of applying to the crops near the end of their normal growing season a water-soluble compound of the group having the formula

$$(X-R-\overset{O}{\overset{\|}{C}}-O-)_n W$$

wherein X—R— is a monohaloethyl radical, X represents a halogen of the group consisting of chlorine, bromine and iodine, W represents one

of the group consisting of hydrogen and a salt-forming ion, and $n$ represents an integer equal to the equivalency of W, such compound being employed at a dosage sufficient substantially to accelerate the maturing of the crops.

**2,649,366**
**PROFILE METHOD OF MAKING STEEL**
**James Fernando Jordan, Huntington Park, Calif.**
**Application November 2, 1951, Serial No. 254,513**
**7 Claims. (Cl. 75—60)**



1. In a continuous bessemer process wherein flame appears above and along a trough within which a stream of high-carbon iron is decarburized with the aid of a series of air jets, the method of controlling said decarburizing process, which comprises: introducing oxygen into the stream of molten metal within said trough so that the profile of the flame above the concluding portion of said decarburizing process declines as the carbon content of said metal stream declines, the angle of said decline being within the range between 10° and 65° from the surface of said stream of molten metal; and selectively increasing or decreasing the input of oxygen into said decarburizing process so that a discernible feature of said flame profile within said decline is maintained at a substantially-fixed position along the stream of molten metal within said trough.

**2,649,367**
**CADMIUM-FREE LOW FUSING POINT ALLOY**
**Albert A. Smith, Jr., Metuchen, and John L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application October 7, 1950, Serial No. 189,044**
**1 Claim. (Cl. 75—134)**

Low melting point alloys composed of 32–34% Bi, 42–44% In, 7–8% Pb and 15–18% Sn.

**2,649,368**
**INDIUM-BISMUTH-TIN ALLOY**
**Albert A. Smith, Jr., Metuchen, and John L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application October 7, 1950, Serial No. 189,045**
**1 Claim. (Cl. 75—134)**

Low melting point alloys composed of 31–33% Bi, 50–52% In and 16–18% Sn.

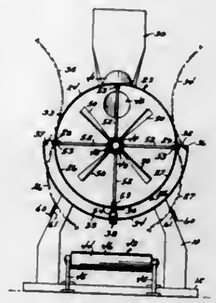
**2,649,369**
**INDIUM-BISMUTH-LEAD ALLOY**
**Albert A. Smith, Jr., Metuchen, and John L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application October 7, 1950, Serial No. 189,046**
**1 Claim. (Cl. 75—134)**

Low melting point alloys composed of 34–36% Bi, 54–56% In and 9–11% Pb.

**2,649,370**
**INDIUM-BISMUTH-LEAD ALLOY**
**Albert A. Smith, Jr., Metuchen, and John L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application October 7, 1950, Serial No. 189,047**
**1 Claim. (Cl. 75—134)**

Low melting point alloys composed of 51–53% Bi, 21–23% In and 25–27% Pb.

**2,649,371**
**APPARATUS FOR DEINKING AND DEFIBERING WASTEPAPER**
**Charles S. Reid, Los Angeles, Calif.**
**Application May 3, 1949, Serial No. 91,105**
**4 Claims. (Cl. 92—1.5)**



1. A machine for deinking and decoloring imprinted paper stock to produce pulp comprising a pair of vertically disposed spaced parallel standards, a horizontally disposed shaft rotatably supported by one of said standards and adapted to be driven by a power mechanism, a hollow shaft rotatably supported by the other standard and adapted to be connected to a source of liquid, a pipe provided with a plurality of spaced openings for the egress therethrough of liquid extending between said shafts and connected thereto, a drum supported by said pair of standards and adapted to receive therein paper stock to be deinked, a hopper connected to said drum for filling the latter, said drum including an upper semi-cylindrical portion and a reticulated bottom portion, said bottom portion comprising a pair of arcuate sections hingedly connected to said top portion whereby the pulp can be emptied from said drum after the ink has been removed therefrom, an arcuate vat extending longitudinally below said drum and supported by said standards for receiving waste liquids discharged through the reticulated bottom of said drum, said vat including a pair of arcuate sections adapted to be opened and closed to selectively discharge the deinked pulp therethrough, a channelway connected to said vat for the conveyance therealong of waste liquid, a manually operable valve for controlling the flow of liquid from said vat, a plurality of spaced parallel radially extending rods each having their inner ends secured to said pipe, rollers connected to the outer ends of said rods for dislodging any pulp adhering to the inner surface of said drum, and a plurality of paddles carried by said pipe for agitating the contents of the drum.



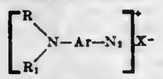
**2,649,372**
**METHOD OF MAKING SHEET MATERIAL**
**Leander H. Hills, Canandaigua, N. Y., assignor to The Garlock Packing Company, Palmyra, N. Y., a corporation of New York**
**Application January 6, 1950, Serial No. 137,187**
**6 Claims. (Cl. 92—21)**



1. A process of making sheet material which comprises converting into web form a wet batch of paper pulp comprising pulp material and dissolved dichromate, and impregnating the web with animal glue.

**2,649,373**
**PAPER PRINTING FOILS FOR LITHOGRAPHIC PURPOSES AND A PROCESS OF PREPARING THEM**
**Wilhelm Neugebauer, Wiesbaden-Biebrich, Jakob Barthenheier, Eddersheim (Main), and August Rebenstock, Wiesbaden-Biebrich, Germany, assignors to S. D. Warren Company, Westbrook, Maine**
**No Drawing. Application October 18, 1948, Serial No. 55,228**
**10 Claims. (Cl. 95—6)**

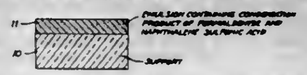
1. A photosensitive coated paper product suitable for the photolithographic manufacture of greasy ink receptive planographic printing plates which product comprises a paper base, selected from the group consisting of parchmented papers and papers coated with a coating composition comprising mineral filler and adhesive, which paper base has a uniform surface having planographic printing properties, and a top coating thereon free from coupling components and free from colloidal substances tannable by diazo compounds under the action of actinic light, said coating comprising a diazo compound which on exposure to actinic light yields an oleophilic decomposition product and is selected from the group consisting of sulfonates obtained by reaction of a sulfite upon compounds selected from the group consisting of (1) the diazonium salts corresponding to the formula



wherein X stands for an equivalent of an anion of an acid, Ar stands for an aromatic residue selected from the group consisting of phenylene and phenylene substituted by a member of the group consisting of alkyl, alkoxy, aroxy, arylsulfamido and halogen, R stands for a member of the group consisting of aryl, and its alkyl, alkoxy, halogen and carboxyl substitution products, and $R_1$ stands for a member of the group consisting of H and alkyl, and (2) the condensates of (1) with aldehydes.

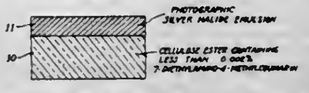
**2,649,374**
**ANTISTATIC PHOTOGRAPHIC FILM**
**Winfield S. Richardson, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application June 10, 1949, Serial No. 98,382**
**4 Claims. (Cl. 95—9)**

1. An anti-static photographic film comprising a cellulose ester support having thereon a silver halide emulsion layer and in one of the layers of said film an alkali metal salt of the condensation




product of formaldehyde and naphthalene sulfonic acid.

**2,649,375**
**LIGHT-SENSITIVE PHOTOGRAPHIC ELEMENT**
**Harry I. Davis, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application October 26, 1950, Serial No. 192,285**
**10 Claims. (Cl. 95—9)**




1. A photographic element comprising at least one photographic silver halide emulsion layer and a colorless cellulose ester layer containing from 0.0001 to 0.002 per cent by weight, based on the cellulose ester, of 7-diethylamino-4-methylcoumarin, said cellulose ester being an ester of a saturated carboxylic acid containing from 2 to 4 carbon atoms.

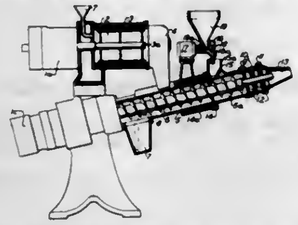
**2,649,376**
**SINGLE POWDER DEVELOPERS CONTAINING STABILIZED ALKALI HYDROXIDES**
**Arthur A. Rasch, Richard W. Henn, and John I. Crabtree, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application June 26, 1952, Serial No. 295,895**
**6 Claims. (Cl. 95—88)**

1. A stable single powder photographic developer composition containing an organic silver halide developer, a stabilizing agent selected from the group consisting of boric anhydride, tetraboric acid, metaboric acid, partially hydrated forms of boric anhydride, intermediate between boric anhydride and metaboric acid, alkali bisulfite, and alkali metalbisulfite, a preservative selected from the group consisting of alkali sulfite and alkali bisulfite, a buffer compound selected from the group consisting of the alkali salts of boric acid, carbonic acid, and phosphoric acid, and an alkali selected from the group consisting of sodium and potassium hydroxides, which have been coated with 2 to 20% by weight of phthalic anhydride.

**2,649,377**
**CONTINUOUS BUTTERMAKING PROCESS AND APPARATUS**
**Wilhelm Wilsmann, Oelde, Westphalia, Germany, assignor to Westfalia Separator, A. G., Oelde, Germany, a German corporation**
**Application October 14, 1950, Serial No. 190,126**
**In Germany November 21, 1949**
**9 Claims. (Cl. 99—119)**

1. Method for the addition of butter-treating additives to butter being produced in a continuous butter-making machine of the type in which a mixture of butter milk and butter corn is passed through a press-off cylinder provided with worms for the separation of the butter corn from the butter milk and having means at the end of the press-off cylinder for pressing

and kneading the corn to a fine-textured butter product which is continuously delivered from the end of the press-off cylinder, which comprises establishing at least one passage into the press-off cylinder at the place along the press-off cylinder where a major portion of the butter milk



has been separated from the butter corn passing through the press-off cylinder prior to the kneading means at the end of the press-off cylinder and substantially continuously adding a butter-treating additive to the butter corn through said passage.

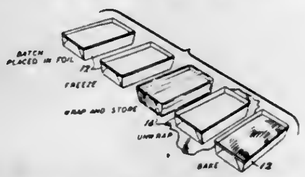
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**2,649,378**
**METHOD FOR PRESERVING PIMENTO**
**Edwin Traisman, Des Plaines, Ill., and Claude R. Price, Garland, Tex., assignors to Kraft Foods Company, Chicago, Ill., a corporation of Delaware**
**No Drawing. Application January 18, 1952, Serial No. 267,201**
**5 Claims. (Cl. 99—156)**

1. The method of producing preserved pimentos which have a firm body, a bright red clear color, and full flavor which comprises lowering the pH of the pimentos below 4.6 by the addition of over about 15 per cent by weight of sodium chloride to clean pimentos, heating the pimento-salt mixture to a pasteurizing temperature, but below about 180° F., until the product is pasteurized, and packaging the pimento-salt mixture.

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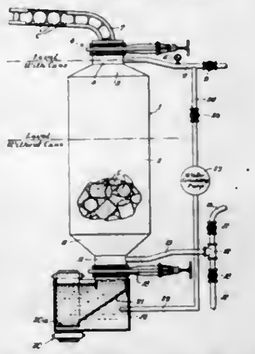
**2,649,379**
**CAKE BAKING AND TENDERIZING PROCESS**
**Robert M. Woods, Skokie, Ill.**
**Application October 27, 1951, Serial No. 253,497**
**6 Claims. (Cl. 99—192)**




1. In a cake-forming process of the character set forth, the steps of introducing a sugar-containing grease-cake batch into a wrapper pan formed of flexible thin aluminum foil having bottom and side walls, baking the batch to brown the top and sides thereof and to form a sealing syrupy substance between the contiguous portions of the cake and the pan to effect a seal therebetween, said baking producing a vapor within the cake saturated with the flavoring and aroma of a freshly-baked cake, then quickly freezing the cake while warm to condense said vapors upon the walls of said foil, and later heating said cake while still sealed within said wrapper pan to vaporize said condensed moisture and distribute said moisture throughout the cake body.

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**2,649,380**
**METHOD OF BATCH PROCESSING DISCRETE ARTICLES**
**George M. Flynn, Oak Park, Ill.**
**Application December 27, 1951, Serial No. 263,551**
**2 Claims. (Cl. 99—214)**



1. The method of batch processing canned products, which comprises delivering the filled and closed cans into a body of water within a retort, draining the water from the retort and thereafter steam processing the cans in the retort, cooling the cans by refilling the retort with water, and discharging the cans downward from the retort by gravity through a continuous column of water by opening the bottom of the retort to a connecting underlying body of water subject to atmospheric pressure while maintaining the retort otherwise closed to the atmosphere.

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**2,649,381**
**STABILIZED STENCIL INK**
**Herbert W. Hempel, Belleville, Ill., and Flavian P. Calabrese, St. Louis, Mo., assignors to Marsh Stencil Machine Company, Belleville, Ill., a corporation of Illinois**
**No Drawing. Application August 6, 1949, Serial No. 109,064**
**3 Claims. (Cl. 106—30)**

3. A stencil ink comprising the following products in the indicated ratios: about 5 to 10 gallons of gloss oil, carbon black pigment and soybean lecithin in the ratio of about 5% of the weight of carbon black, and a carrier in an amount at least great enough to provide a paste, said carrier being a petroleum distillate having a distillation range of about 363 to 613° F. and a flash point of 166° F.

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**2,649,382**
**PIGMENTED ORGANIC PLASTICS AND METHOD FOR PREPARING THE SAME**
**Vincent C. Vesce, Bergen County, N. J., assignor, by mesne assignments, to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application August 3, 1949, Serial No. 108,423**
**11 Claims. (Cl. 106—193)**

1. A process of manufacturing a dispersion of pigment in solid organic plastic which comprises milling the pigment and plastic for a substantial



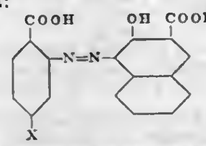
period of time in a liquid grinding medium consisting essentially of water and a liquid organic water-miscible solvent in which the plastic is at least partially soluble, the water and the solvent being present throughout the milling operation in such proportions that the liquid grinding medium does not dissolve a substantial amount of the plastic and does not cause substantial agglomeration of the plastic, the liquid grinding medium being present at all times in such amounts as to give a fluidity to the mixture which permits effective milling action, continuing the milling operation until a dispersion of pigment in plastic is obtained, and thereafter separating the solid portion from the liquid portion of the milled mixture.

2. A composition of matter produced by the process of claim 1 which consists essentially of pigment dispersed in solid organic plastic in the form of dry, free-flowing particles possessing a chromaticity substantially not less than the pigment portion thereof.

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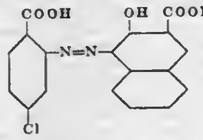
**2,649,383**
**AZO PIGMENT AND COATING COMPOSITIONS CONTAINING THE SAME**
**Donald B. Killian, Nutley, N. J., and Albert D. Reidinger, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application May 3, 1950, Serial No. 159,876**
**7 Claims. (Cl. 106—193)**

1. As a new insoluble azo maroon pigment, the manganese salt of the azo dyestuff having the formula:




in which X is a substituent selected from the group consisting of halogen and nitro.

4. A durable synthetic alkyd resin coating composition containing as pigmenting ingredients a minor proportion of powdered aluminum and a major proportion of the manganese salt of the insoluble azo maroon dyestuff having the formula:




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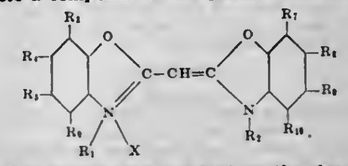
**2,649,384**
**ASPHALT COMPOSITION AND PROCESS OF PREPARING THE SAME**
**Alvin P. Anderson, Woodcliff Lake, N. J., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application May 15, 1950, Serial No. 162,151**
**9 Claims. (Cl. 106—270)**

9. An asphalt blowing flux consisting essentially of an asphaltic residue having a ring and ball softening point between 70 and 120° F., and 5–20% by weight of said flux of a "soft wax" fraction, said fraction comprising 13–40% by weight of bright stock lubricating oil having a viscosity of at least 100 seconds Saybolt Universal at 210° F. obtainable from a waxy petroleum short residue and 60–87% by weight of microcrystalline wax, said wax being comprised predominately of microcrystalline wax-type hydrocarbons individually melting between —18° and 40° C.

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**2,649,385**
**OPTICALLY BLEACHED FIBROUS MATERIAL**
**John David Kendall and Douglas James Fry, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company**
**No Drawing. Application October 25, 1951, Serial No. 253,194. In Great Britain January 14, 1949**
**13 Claims. (Cl. 117—33.5)**

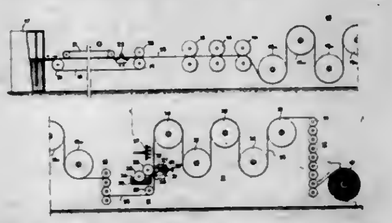
1. Fibrous materials comprising fibres of organic derivatives of cellulose having adsorbed thereto a compound of the general formula:



where $R_1$ and $R_2$ are selected from the class consisting of alkyl and oxyalkyl groups and $R_3$ to $R_{10}$ inclusive are selected from the class consisting of hydrogen atoms, halogen atoms and alkyl, alkoxy, amino and substituted amino groups, and X is an acid radicle, which compound is colourless in ethyl alcoholic solution.

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**2,649,386**
**COATED PAPER AND METHOD FOR MAKING SAME**
**Paul A. Snowman, Jr., Glen Ridge, N. J., assignor to North American Paper Process Company, Inc., New York, N. Y., a corporation of Delaware**
**Application February 21, 1948, Serial No. 10,078**
**5 Claims. (Cl. 117—38)**



1. The method for coating paper with a discontinuous coating of a substantially uniform pattern which consists in: subjecting a travelling web of paper to pressure between a backing and a coating roll, the latter having a plurality of minute depressions formed in the surface thereof in a uniform pattern, said coating roll having a coating mix continuously applied thereto, the coating mix being removed from the undepressed areas of the coating roll but being retained in the minute depressions until deposited on the web in separate minute mounds; thereafter dehydrating the separate minute mounds so applied to the paper to solidify same thereby to maintain the individuality of said mounds whereby coalescence thereof is prevented; and then subjecting the web of paper to pressure between calender

rolls for substantially levelling the upper surfaces of the mounds.

2. A coated fibrous sheet product comprising a sheet of paper-like substance having a mineral coating material disposed on at least one side thereof, such sheet normally being of varying thickness and thus having an undulating surface with some areas thereof positioned higher than others relative to a central plane of the sheet, the coating being characterized by a plurality of minute fine areas which are coated by mineral coating material in the shape of fine mounds, such coated areas and mounds being separated by minute areas which are uncoated, the coating being in a discontinuous form according to a uniform predetermined pattern, the fine mounds being impacted into the paper, the coating material upon the relatively higher portions of the fibrous sheet being impacted therein to a greater extent than the coating material on the relatively lower areas of the sheet, the upper areas of the coating material being thus pressed to a substantially common level.

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**2,649,387**
**METHOD OF FORMING NONREFLECTING COATING ON GLASS**
**William F. Parsons and Juanita N. Little, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**Application October 27, 1950, Serial No. 192,467**
**3 Claims. (Cl. 117—65)**



1. The method of forming on lead glass a black opaque coating which is non-reflecting at the interface between the coating and the glass, which comprises placing a silver coating on the lead glass, diffusing the silver into the lead glass by heating the silvered glass in an atmosphere of oxygen at a temperature within the range of 850° F. to 1000° F. for at least 15 hours, and reducing the diffused silvered lead glass surface in an atmosphere of hydrogen at a temperature of from 750° F. to 900° F. for 1 to 2 hours, the heating temperatures of the silver diffusing and the reducing steps also being below the softening point of the particular lead glass being coated.

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**2,649,388**
**MANUFACTURE OF SILICA FILLED MATERIALS**
**John Haines Wills, Chester, and James Frederic Hasel, Havertown, Pa., assignors to Philadelphia Quartz Company, Philadelphia, Pa., a corporation of Pennsylvania**
**No Drawing. Application August 24, 1948, Serial No. 45,974**
**22 Claims. (Cl. 117—103)**

1. In the manufacture of non-segregating, silica-impregnated and coated materials, the process which comprises forming a liquid dispersion of a finely-divided inert material to be impregnated in a liquid aqueous silica sol which is subject to irreversible freezing, subjecting the said dispersion to freezing temperatures under conditions producing complete freezing within less than one hour and before any substantial gel formation takes place, thawing the frozen mass and recovering the resulting silica-impregnated material therefrom.

**2,649,389**
**ANTIVESICANT COMPOUNDS AND CLOTHING IMPREGNATED THEREWITH**
**Jonathan W. Williams, Hyattsville, Md**
**No Drawing. Application January 16, 1943, Serial No. 472,651**
**9 Claims. (Cl. 117—121)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

6. As a new compound, a 1,3,4,6-tetrachloro-7,8-dialkylglycoluril.

8. A porous article of clothing impregnated with an anti-vesicant amount of a 1,3,4,6-tetrachloro-7,8-dialkylglycoluril.

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**2,649,390**
**PROCESS OF TREATING SUGAR SOLUTIONS WITH ION-EXCHANGE RESINS**
**James C. Winters, Glenside, Pa., and Robert Kunin, Trenton, N. J., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware**
**No Drawing. Original application April 13, 1948, Serial No. 20,847. Divided and this application November 13, 1950, Serial No. 195,466**
**4 Claims. (Cl. 127—46)**

1. The method of purifying a dilute sucrose solution containing dissolved salts which comprises the three essential steps of directing the solution first through a bed of cation-exchange resin in which the principal polar groups are carboxylic acid groups, next through a bed of anion-exchange resin in which the principal polar groups are quaternary ammonium hydroxyl groups, and then through a bed of cation-exchange resin in which the principal polar groups are carboxylic acid groups.

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**2,649,391**
**SPONGE RUBBER PRODUCT**
**Sterling W. Alderfer, Akron, Ohio, assignor of three-tenths to Edward D. Andrews, Akron, Ohio**
**Application April 15, 1950, Serial No. 156,201**
**3 Claims. (Cl. 154—46)**



1. As a new article of manufacture, a product comprising a vulcanized layer of foamed and gelled rubber latex having a multitude of minute air cells distributed throughout the layer and communicating with each other, and a textile fabric attached to one surface of the said layer by penetration of the latex into the fabric, the interstices of the fabric being in communication with the cells in the said layer, the foamed layer having a porous outer surface which is smooth and planished to the extent of reflecting highlights, and said outer surface being further characterized in that all of the pores therein are microscopic pores of substantially uniform size, substantially uniformly distributed over the entire outer surface.

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**2,649,392**
**METHOD OF FORMING SEAL IN SYNTHETIC PLASTIC PACKAGES**
**John M. Marshall, Reading, Pa., assignor to Kraft Foods Company, Chicago, Ill., a corporation of Delaware**
**Application March 30, 1950, Serial No. 152,958**
**3 Claims. (Cl. 154—83)**

1. The method of forming a seal in a package of synthetic thermoplastic materials, said package comprising component parts, one of said parts consisting of chlorinated rubber, the other of said parts consisting of vinyl chloride acetate, said component parts being immiscible under heat sealing conditions, which method comprises compressing said component parts together under heat and pressure to form a low strength hermetic seal, wherein the sealed component parts are composed, respectively, only of chlorinated rubber and vinyl chloride acetate, whereby a seal is formed between said component parts which is easily ruptured.





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**2,649,393**
**METHOD OF MAKING VENETIAN BLIND SLATS**
**George T. Cumming, Kansas City, Mo., assignor to William Volker and Company of Missouri, Inc., Kansas City, Mo., a corporation**
**Application August 2, 1948, Serial No. 41,936**
**10 Claims. (Cl. 154—93)**



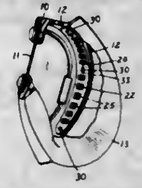
1. The method of producing Venetian blind slats which comprises continuously feeding a flat flexible tape along a predetermined path of travel; simultaneously feeding a pair of wires along one face of the tape; folding portions of the tape over the wires; and joining said portions of the tape to said one face thereof as the wires and the tape progress together.

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**2,649,394**
**AIR-LAYING FIBER FELTS**
**Allen M. Crewson, Cloquet, Minn., assignor to Wood Conversion Company, St. Paul, Minn., a corporation of Delaware**
**No Drawing. Application June 29, 1951, Serial No. 234,440**
**4 Claims. (Cl. 154—101)**

1. The method which comprises projecting into a depositing chamber a continuous stream of dry substantially individualized vegetable fibers for deposition by gravity in the bottom of said chamber from suspension in air in said chamber, continuously injecting aqueous mist particles of liquid into said chamber for applying mist particles to fibers falling therein for deposition, said mist incidentally wetting the defining walls of the chamber and thereby causing fibers to collect on said walls and grow as festoons, there being mist particles containing a starch sol as bonding agent for integrating a felt formed by the deposited fibers and mist particles containing triethanolamine oleate in an amount to introduce into said chamber from 0.04 part to 0.4 part by weight of triethanolamine oleate to 100 parts of fiber, said triethanolamine oleate being effective to decrease the rate of formation and the size of festoons.

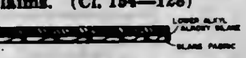
**2,649,395**
**FILTER MANUFACTURE**
**Frank W. Maurer, Newton Highlands, and Jack B. Hirschmann, Fairhaven, Mass., assignors, by mesne assignments, to Jack B. Hirschmann**
**Original application December 30, 1946, Serial No. 719,326, now Patent No. 2,573,722, dated November 6, 1951. Divided and this application October 24, 1950, Serial No. 191,760**
**3 Claims. (Cl. 154—125)**



1. In a method of producing a filter of the character described including a layer of filter material and a perforate flexible supporting member for said filter material, the steps of forming in a sheet of organic plastic material a plurality of apertures, superimposing a filter cloth on one surface of said apertured plastic sheet, and saturating said cloth with a volatile solvent for said plastic while said cloth and said plastic sheet are in intimate contact to soften the surface of said plastic sheet adjacent said cloth with resultant intimate bonding between the adjacent surfaces of said sheet and said cloth while maintaining the areas of said cloth overlying said apertures free of said plastic for proper transmission of gas therethrough.

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**2,649,396**
**METHOD OF PRODUCING A BONDED STRUCTURE**
**Ralph K. Witt, William G. Carson, and Betty Lou Raskin, Baltimore, Md.**
**Application March 17, 1949, Serial No. 82,008**
**3 Claims. (Cl. 154—128)**



1. The method of producing a bonded structure composed substantially of glass fibers and a thermosetting resin selected from the group consisting of melamine, phenolic, silicone and polyester resins which comprises applying to the glass fibers free of sizing an unsaturated lower alkyl alkoxy silane selected from the group consisting of vinyl alkoxy silanes and allyl alkoxy silanes; removing excess silane from said glass fibers; applying to the glass fibers thus treated a thermosetting resin selected from the group consisting of melamine, phenolic, silicone and polyester resins; applying the resin coated glass fibers to a surface to be bonded thereto; and curing the resin whereby the bonded structure is produced.

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**2,649,397**
**FUNGICIDAL COMPOSITIONS AND METHOD OF FUNGUS CONTROL COMPRISING HYDROCARBYL-SUBSTITUTED PYRIMIDINES**
**Seaver A. Ballard, Orinda, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware**
**No Drawing. Application May 31, 1950, Serial No. 165,375**
**20 Claims. (Cl. 167—33)**

1. A fungicidal concentrate composition containing a substituted tetrahydropyrimidine hav-

ing only hydrocarbyl substituents and having a hydrocarbon group of from 10 to 23 carbon atoms attached directly to the 2-position of the tetrahydropyrimidine ring, said composition also containing a surface active agent suitable for dispersing said composition in water.

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**2,649,398**
**DOUCHE COMPOSITION**
**John H. Wright, Clearwater, Fla., and Albert W. Lewing, Monson, Mass., assignors to Tampax, Incorporated, New York, N. Y., a corporation of Delaware**
**No Drawing. Application April 1, 1949, Serial No. 85,025**
**5 Claims. (Cl. 167—58)**

1. A composition adapted to be dissolved in water and used as a douche, said composition being a dry, finely divided solid capable of being dissolved in water to form a clear solution and comprising a non-toxic zinc salt as an astringent, a wetting agent which is sodium loroisulfoacetate, and a quantity of an acidic substance sufficient to give said douche a pH of about 4.0 to 5.0.

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**2,649,399**
**CONJUGATED OESTROGENIC QUATERNARY AMMONIUM SALTS AND THEIR PREPARATION**
**Desmond Beall and Gordon Allison Grant, Montreal, Quebec, Canada, assignors to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada, a corporation of Canada**
**No Drawing. Application February 1, 1951, Serial No. 208,976**
**2 Claims. (Cl. 167—74.5)**

1. As a new composition of matter a mixture of the p-diisobutyl-phenoxy-ethoxy-ethyl dimethyl benzyl ammonium salts of substantially all of the estrogenic conjugates of unhydrolyzed equine urine, precipitated from an aqueous medium containing said conjugated estrogens in the presence of non-estrogenic urinary materials substantially free of inert non-urinary materials.

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**2,649,400**
**STEROIDS**
**Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**
**No Drawing. Application August 28, 1952, Serial No. 306,929**
**30 Claims. (Cl. 195—51)**

29. A process for the production of an oxygenated steriod comprising the steps of aerobically growing a culture of an oxygenating strain of an organism of the Penicillium genus, and exposing a steroid to the oxygenating activity of enzymes produced by the said culture.

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**2,649,401**
**STEROID OXIDATION**
**William J. Haines and Donald R. Colingsworth, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**
**Application September 16, 1950, Serial No. 185,246**
**20 Claims. (Cl. 195—51)**

19. A process for the production of an oxygenated steroid comprising the steps of aerobically growing a culture of an oxygenating strain of an organism of the Streptomyces genus, and exposing a steroid to the oxygenating activity of enzymes produced by the said culture.

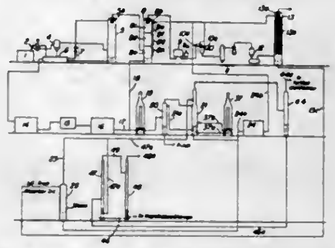
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**2,649,402**
**STEROIDS**
**Herbert C. Murray, Hickory Corners, and Durey H. Peterson, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan**
**No Drawing. Application August 23, 1952, Serial No. 306,066**
**31 Claims. (Cl. 195—51)**

30. A process for the production of an oxygenated steroid comprising the steps of aerobically growing a culture of an oxygenating strain of an organism of the Aspergillus genus, and exposing a steroid to the oxygenating activity of enzymes produced by the said culture.

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**2,649,403**
**METHOD OF COKE-OVEN BY-PRODUCT RECOVERY**
**Gerald L. Eaton, Lansdowne, Pa., assignor to United Engineers & Constructors Inc., Philadelphia, Pa., a corporation of Delaware**
**Application May 11, 1950, Serial No. 161,325**
**11 Claims. (Cl. 196—8)**



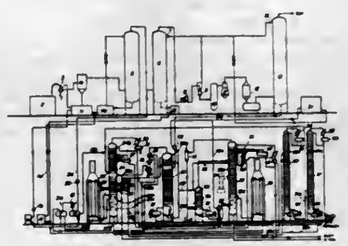
11. In a process for the recovery of by-products from hot coke oven gases, the steps of contacting said gases with an aqueous liquor to remove tar therefrom, contacting the gases with a substantially naphthalene-free creosote absorber oil having an initial point above about 225° C. and an end point not higher than about 335° C. to remove naphthalene therefrom with consequent enrichment of said absorber oil, contacting the gases with a substantially naphthalene and light oil free absorber oil having an initial point above about 225° C. and an end point not higher than about 335° C. to remove light oils therefrom, and continuously distilling at least a portion of the tar in admixture with at least a portion of the naphthalene rich absorber oil separated from the gases, said distillation comprising a first stage wherein pitch is continuously removed from the mixture and a second stage wherein the pitch-free mixture is continuously separated into a creosote oil having an end point below about 335° C. and a lower boiling portion, said creosote oil being continuously recycled for use as the absorber oil in removing naphthalene and light oils from fresh coke oven gas.

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**2,649,404**
**METHOD OF COKE-OVEN BY-PRODUCT RECOVERY**
**Thomas G. Reynolds, Media, Pa., assignor to United Engineers & Constructors Inc., Philadelphia, Pa., a corporation of Delaware**
**Application September 26, 1950, Serial No. 186,886**
**12 Claims. (Cl. 196—8)**

1. A process for the recovery of by-products from hot coke oven gases comprising in combination the steps of contacting said gases with a substantially naphthalene-free absorber oil having an initial point above about 225° C. and an end point not higher than about 400° C. for removal of naphthalene therefrom with consequent enrichment of said absorber oil, and fractionating at least a portion of said napthalene-rich absorber oil in the presence of a heavy carrier having an end point above the end point of the absorber oil at least a portion of which carrier

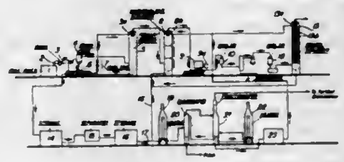




will remain liquid when the absorber oil is vaporized, in two stages, at least a portion of the naphthalene and the constituents boiling below naphthalene in temperature being fractionated from each other, and from constituents boiling above naphthalene taken as a whole, in a first stage and constituents boiling above naphthalene in temperature being fractionated into suitable components in a second stage whereby resin polymerization and corresponding clogging of apparatus is substantially reduced.

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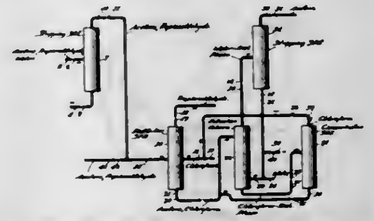
**2,649,405**
**METHOD FOR COKE-OVEN BY-PRODUCT RECOVERY**
**Gerald L. Eaton, Lansdowne, Pa., assignor to United Engineers & Constructors Inc., Philadelphia, Pa., a corporation of Delaware**
**Application September 19, 1950, Serial No. 185,665**
**6 Claims. (Cl. 196—8)**



1. In a process for the recovery of by-products from hot coke oven gases, a combination of steps which comprises removing tar from the gases, subsequently compressing the gases, contacting the gases at a pressure of above about 30 p. s. i. g. with a substantially naphthalene and light oil free absorber oil having an initial point above about 225° C. and an end point not higher than about 400° C. to remove light oils therefrom with consequent enrichment of said absorber oil and distilling at least a portion of the light oil rich absorber oil to separate light oils therefrom, said distillation being conducted solely by indirectly heating said light oil rich absorber oil.

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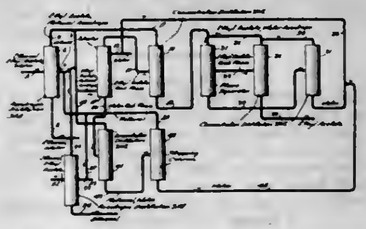
**2,649,406**
**SEPARATION OF ACETONE AND PROPIONALDEHYDE BY AZEOTROPIC DISTILLATION WITH CHLOROFORM**
**James M. Harrison, Oakmont, and Allen E. Somers, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware**
**Application March 14, 1952, Serial No. 276,614**
**4 Claims. (Cl. 202—42)**



1. A process which comprises adding chloroform to a mixture of acetone and propionaldehyde, distilling the resulting mixture of acetone, propionaldehyde and chloroform, removing propionaldehyde overhead as product, and removing as bottoms a mixture containing azeotropic amounts of acetone and chloroform.

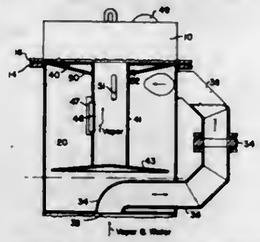
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**2,649,407**
**SEPARATION OF ETHYL ACETATE AND ETHANOL BY AZEOTROPIC DISTILLATION WITH METHANOL**
**James M. Harrison, Oakmont, and Allen E. Somers, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware**
**Application March 14, 1952, Serial No. 276,615**
**5 Claims. (Cl. 202—42)**



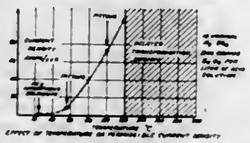
1. A process which comprises introducing methanol and a mixture of ethanol, ethyl acetate and water into an azeotropic distillation zone, removing an azeotropic mixture of ethyl acetate and methanol as overhead from the azeotropic distillation zone, introducing the azeotropic mixture of ethyl acetate and methanol to a water extraction zone, removing an ethyl acetate-rich and a water-rich mixture of ethyl acetate, methanol, and water from said water extraction zone, introducing said ethyl acetate-rich mixture to a concentration distillation zone, removing an azeotropic mixture of ethyl acetate and methanol as overhead and a mixture of ethyl acetate and water as bottoms from said concentration distillation zone, introducing said bottoms mixture of ethyl acetate and water to a phase separation zone, removing an ethyl acetate-rich and a water-rich mixture from said phase separation zone, and removing ethyl acetate as bottoms from said ethyl acetate-rich mixture of ethyl acetate and water in a distillation zone.

**2,649,408**
**EVAPORATOR**
**William R. Williamson and John P. Tyskewicz, Hartford, Conn., assignors to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut**
**Application April 29, 1949, Serial No. 90,528**
**12 Claims. (Cl. 202—197)**



8. An evaporator comprising a cylindrical shell, transverse partitions across the interior of the shell dividing it into a lower boiler chamber, a middle separator chamber, and an upper vapor dome, a constant level device for admitting water into the separator chamber, a vapor outlet from the vapor dome, a connection between the lower portions of the boiler and separator chambers, the partition between the vapor dome and the separator chamber being formed of a perforated metal plate and an inverted cone below it, a pipe extending downwardly through said plates, secured to them, and passing along the axis of the shell into the separator chamber, said pipe being substantially closed at its bottom and having a side opening into the separator chamber, a drain pipe between the interior of the inverted cone and an underwater portion of the separator chamber, and a throttled vapor conduit leading from the top of the boiler through the separator chamber below the water level therein, passing externally of the shell, and re-entering the shell tangentially at the upper portion of the separator chamber.

**2,649,409**
**ELECTRODEPOSITION OF SELENIUM**
**Arthur von Hippel, Weston, and Mortimer C. Bloom, Newton Highlands, Mass., assignors, by mesne assignments, to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware**
**Application July 30, 1943, Serial No. 496,760**
**1 Claim. (Cl. 204—38)**

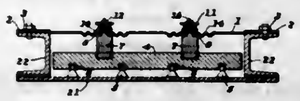


The process for electrodepositing gray crystalline metallic selenium upon a surface of an article having a metallic surface from the group consisting of nickel, silver, antimony and steel, that comprises producing an initial coating of a selenide of said surface metal thereon, and then making the article the cathode in an electrolyte consisting of an aqueous solution of sulphuric acid having a concentration of about 18 normal, and having between 150 grams of selenium dioxide per litre and sufficient selenium dioxide to form a saturated solution dissolved therein, maintaining the temperature of said electrolyte between 55° C. and 120° C., and maintaining the current density between 8 amperes per square foot and 230 amperes per square foot.

**2,649,410**
**ELECTRODEPOSITION OF SELENIUM**
**Mortimer C. Bloom and Joshua P. Levy, Boston, Mass., assignors to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application June 10, 1948, Serial No. 32,275**
**7 Claims. (Cl. 204—56)**

1. A process of regenerating acidic aqueous selenium dioxide electrolytic bath contaminated with organic matter which comprises adding thereto elemental selenium in the form of particles in a quantity greater than the normal metallic selenium content of said bath, which particles present a substantial total surface to contact with said bath and leaving the added selenium in the bath at approximately 100° C. for a period of twelve houra to six days until it adsorbs said organic matter on the surfaces of said particles.

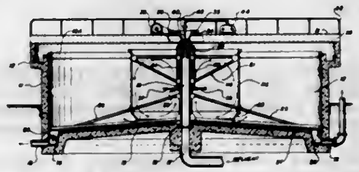
**2,649,411**
**MERCURY CATHODE ELECTROLYTIC CELL**
**Harry Shaw, Albert Thompson, and Thomas I. J. Toler, Runcorn, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**
**Application January 24, 1950, Serial No. 140,228**
**In Great Britain February 7, 1949**
**5 Claims. (Cl. 204—219)**



1. A flowing mercury cathode electrolytic cell having continuous and automatic adjustment of the height of the anode, comprising in combination a substantially horizontal cell base plate for supporting a flowing mercury cathode, side walls, an anode having an undersurface substantially parallel to said base plate, an array of small supporting bodies resting on the cell base plate supporting the major part of the weight of the anode above said cell base plate, said bodies making edge surface contact only with the said anode, an integral vertically flexible cover on the cell, said cover being substantially uniformly flexible throughout and the edge of said vertically flexible cover being rigidly fixed to the said side walls of the cell, anode supporting rods extending from the upper surface of the anode through holes in said flexible cover and means fixedly sealing said rods to said cover whereby the cover is caused to move with said anode as anode wear takes place.

**2,649,412**
**CLARIFICATION**
**Arthur M. Kivari, Los Angeles, and Earl M. Kelly, Burlingame, Calif., assignors to Process Engineers Incorporated, San Francisco, Calif., a corporation of California**
**Application April 13, 1951, Serial No. 220,776**
**11 Claims. (Cl. 210—3)**

1. In apparatus for separating solids from sewage by settlement and including a tank having an inner compartment and an outer sedimentation compartment disposed around it, the two compartments communicating with each other just above the tank bottom but separated from each other at higher levels by an annular imperforate baffle, means for introducing the sewage into the inner compartment, and means for withdrawing clarified sewage from an upper portion of the outer compartment, the combination which comprises a sludge pocket located below the bottom of the tank and at a level lower than that of the bottom of the baffle within the region which begins underneath the baffle and



which extends to the periphery of the tank bottom, means disposed in the inner compartment for aerating the contents thereof to cause an up-and-down circulation of liquid and solids in the sewage between an intermediate and an upper portion of the compartment to bring about flocculation of finely divided solids in the sewage, raking means extending along the bottom substantially to the pocket for raking settled solids along the tank bottom into the pocket from the tank bottom underlying both compartments, and means for withdrawing solids from the pocket.

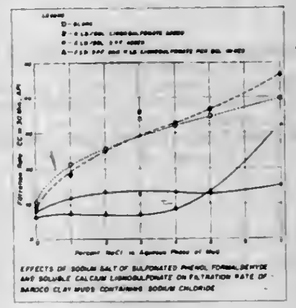
**2,649,413**
**DISPOSAL OF SLUDGE FROM ELECTROLYTIC PREPARATION OF SODIUM**
**Benjamin E. Hodge, Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware**
**Application July 19, 1950, Serial No. 174,655**
**6 Claims. (Cl. 252—1)**

1. A process for readily disposing of a sludge of sodium and calcium formed as a by-product from the electrolytic preparation of sodium, which process comprises heating the sludge with air and siliceous material containing unreacted silica, the siliceous materials containing at least one mole of unreacted silica per mole of sodium in said sludge, thereby causing the metals, unreacted silica and air to react and produce a readily disposable solids product mixture consisting essentially of sodium silicate, calcium oxide and silica.

**2,649,414**
**DRILLING MUD**
**Richard A. Salathiel, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware**
**Application April 19, 1952, Serial No. 283,159**
**10 Claims. (Cl. 252—8.5)**

1. A drilling mud comprising a water soluble salt of lignin sulfonic acid in an amount in the range between 0.5 and 20.0 pounds per 42 gallon barrel of said mud, a water soluble salt of a sulfonated phenol formaldehyde condensation product in an amount in the range between 0.5 and 10 pounds per 42 gallon barrel of said mud, at least 5% by weight of finely divided solid material, and water containing no more than 4.5% by weight of alkali metal chloride and no more than 2% by weight of an alkaline earth metal chloride, the total salinity of said water being in the range from 0.5% to 4.5%.





**2,649,415**
**CORROSION INHIBITOR COMPOSITION**
**Robert L. Sundberg, Phillipsburg, N. J., Charles P. Albus, Easton, Pa., and James M. Cross, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
**No Drawing. Application December 30, 1949, Serial No. 136,172**
**13 Claims. (Cl. 252—8.55)**

1. A corrosion inhibiting composition for use in the treatment of metals with acid baths, which consists essentially of a substantially water-insoluble primary amine of the class consisting of aliphatic and alicyclic monoamines of 12 to 20 carbon atoms, and a non-ionic dispersing agent of the class consisting of the polyalkoxylated derivatives of aliphatic and alicyclic monocarboxy acids, of aliphatic and alicyclic monohydric alcohols and of alkylphenols, said acids, alcohols and alkylphenols having 12 to 24 carbon atoms, said derivatives thereof containing at least 4 oxyalkylene radicals and said oxyalkylene radicals each containing 2 to 3 carbon atoms, the weight ratio of said amine to said dispersing agent being substantially within the range of 1:1 to 1:9.

**2,649,416**
**LUBRICATING OIL CONTAINING A MONOESTER OF A THIODIACETIC ACID**
**Frederick P. Richter and Everett W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**
**No Drawing. Application March 3, 1949, Serial No. 79,516**
**4 Claims. (Cl. 252—48.6)**

1. A lubricating oil containing a small amount, sufficient to prevent rusting of ferrous metal surfaces, of a monoester of a thiodiacetic acid having the formula

$$\begin{array}{l} CH_2COOH \\ | \\ S \\ | \\ CH_2COOR \end{array}$$

wherein R is an aliphatic hydrocarbon radical

which has a normal chain length of between about ten carbon atoms and about eighteen carbon atoms.

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**2,649,417**
**PLODDED HIGH MOISTURE SOAP AND METHOD OF MAKING SAME**
**Russell Edward Compa, Bogota, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware**
**Application August 5, 1946, Serial No. 688,573**
**17 Claims. (Cl. 252—109)**



2. The process of making cakes of dense soap of high moisture content which comprises cooling a molten soap mixture containing about 20% to 40% moisture to a temperature within the range of about 70° to 120° F. and thereby converting it to solid form while retaining substantially said moisture content, introducing particles of said solid soap into a plodder through a space maintained under a vacuum of at least about 20 inches of mercury, plodding said particles at a temperature within said range whereby they are compacted into a continuous bar, and cutting said bar into cakes.

10. A cake of dense high moisture plodded soap produced in accordance with the process of claim 2.

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**2,649,418**
**PROCESS FOR THE REMOVAL OF TAR FROM CUPROUS CHLORIDE CATALYST SOLUTIONS**
**Carlyle J. Stehman, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**
**No Drawing. Application June 23, 1951, Serial No. 233,253**
**9 Claims. (Cl. 252—414)**

1. A process for the removal of tar from cuprous chloride catalyst solutions employed in the reaction of acetylene and hydrogen cyanide in said catalytic solution to produce acrylonitrile, which comprises adding to said catalyst solution a liquid, organic compound containing a polar group selected from the class consisting of nitro, nitrile, phenolic and keto groups, said liquid having a boiling point above 80° C., whereby the tar present in the catalyst solution is modified and consolidated into a separate substantially homogeneous liquid phase and thereafter separating a liquid phase of tar from the said catalytic solution.

**2,649,419**
**MOLYBDENUM DISULFIDE CONTAINING HYDROGENATION CATALYST**
**Herbert L. Johnson and Archibald P. Stuart, Media, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**
**No Drawing. Application November 16, 1950, Serial No. 196,092**
**2 Claims. (Cl. 252—439)**

1. An improved hydrogenation catalyst containing from 10% to 25% by weight molybdenum disulfide, from 9% to 30% by weight iron (calculated as ferric oxide), from 4% to 9% by weight silica, from 1% to 4% by weight of titania, and from 40% to 75% by weight of alumina.

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**2,649,420**
**PREPARATION OF BARIUM-CHROMIUM-COPPER-SILICA-CONTAINING CATALYST**
**Alexander F. MacLean, Robstown, Tex., assignor to Celanese Corporation of America, a corporation of Delaware**
**No Drawing. Original application December 8, 1948, Serial No. 64,230. Divided and this application December 10, 1949, Serial No. 132,417**
**3 Claims. (Cl. 252—457)**

1. Process for the production of an improved dehydrogenation catalyst, which comprises adding about 200 parts by weight of finely-divided silica gel to a solution of 20 parts by weight of barium hydroxide in 300 parts by weight of water, neutralizing the solution with acetic acid, adding about 20 parts by weight of chromium acetate and 40 parts by weight of cupric acetate to the solution, mixing thoroughly, filtering the impregnated silica gel particles therefrom and heating the particles to a temperature of 400 to 800° F. for 1 to 2 hours, whereby finely-divided discrete particles of the hydrogenation catalyst are produced.

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**2,649,421**
**SYNTHETIC SUBSTANCES OF THE POLYSACCHARIDE TYPE**
**Maurice Stacey and William George Overend, Birmingham, England, assignors, by mesne assignments, to Dextran Limited, Aycliffe, Darlington, England, a British company**
**No Drawing. Application November 1, 1950, Serial No. 193,526. In Great Britain November 22, 1949**
**13 Claims. (Cl. 260—9)**

9. A hard glassy polymer having a polysaccharide structure consisting of 2-desoxy-glycofuranose units linked together through head and tail carbon atoms.

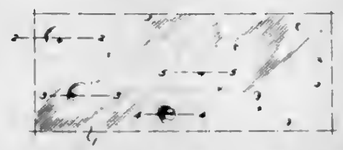
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**2,649,422**
**PHENOLIC ESTER RESINS**
**David Aelony, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware**
**No Drawing. Application February 6, 1950, Serial No. 142,709**
**10 Claims. (Cl. 260—19)**

1. A liquid, low acid number ester of an oil-insoluble phenol formaldehyde resin substantially free from methylol groups, said resin containing an average of from about 4 to about 10 phenolic groups per molecule and being derived from the acid catalyzed condensation of from 2 to 2½ moles of formaldehyde per 4 moles of phenol and being substantially free from phenol and bisphenols, the hydroxyl groups of the resin being esterified at least about 60% by means of an unsaturated higher fatty acid having at least semi-drying characteristics, said ester being substantially free from acetyl groups.



**2,649,423**
**SHORT OIL MODIFIED ALKYD RESIN SURFACE COATING MATERIALS COMPRISING A POLYMER OF ALIPHATIC ESTERS OF ALPHA,BETA UNSATURATED CARBOXYLIC ACIDS**
**Frank R. Spencer, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
**Application January 21, 1950, Serial No. 139,804**
**6 Claims. (Cl. 260—21)**



1. A coating composition, capable of yielding on baking a non-cratering film, comprising a compatible blend of an alkyd resin modified with up to 25% of a material selected from the group consisting of semi-drying and non-drying glyceride oils and their acids, a butylated melamine-formaldehyde resin, and from 0.05% to 10% by weight of a polymeric alkyl ester of an alpha, beta unsaturated carboxylic acid, wherein said percentage by weight is based on the total weight of the resin solids.

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**2,649,424**
**PROTECTIVE COATING MATERIAL**
**Benson G. Brand, Columbus, Ohio, assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware**
**No Drawing. Application. October 11, 1950, Serial No. 189,665**
**4 Claims. (Cl. 260—23)**

1. The method of making a protective coating material which comprises heating from 65% to 40% of a China-wood oil and from 35% to 60% of polyterpene resin to a temperature between 230° C. and 245° C. to form a varnish; thinning said varnish with a suitable solvent; and thereafter mixing from 35% to 85% of said thinned varnish, based on the non-volatile weight, with a material comprising from 20% to 90% mica and the balance titanium dioxide.

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**2,649,425**
**ADHESIVE CONTAINING A BUTADIENE STYRENE COPOLYMER**
**George E. Hulse, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application November 24, 1948, Serial No. 61,932**
**16 Claims. (Cl. 260—27)**

1. A pressure-sensitive adhesive comprising a solvent-soluble butadiene-styrene copolymer having proportions between about 30% butadiene to about 70% styrene and about 95% butadiene to about 5% styrene and having a Mooney viscosity above 145, blended with a tackifying agent said copolymer having been prepared at a polymerization temperature of between about —30° C. and about 20° C. using an α,α-dialkylarylmethyl hydroperoxide catalyst and an inorganic reducing agent activator.

**2,649,426**
**SOLUTIONS OF VINYLIDENE CYANIDE INTERPOLYMERS IN AN ORGANIC NITRILE**
**Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application May 17, 1952, Serial No. 288,561**
**11 Claims. (Cl. 260—32.4)**

1. A composition comprising an interpolymer of vinylidene cyanide with at least one other monoolefinic monomer, said interpolymer containing from about 45 to 55 mole per cent of vinylidene cyanide units, and, as a solvent therefor, a compound of the structure RCN, wherein R is a member of the class consisting of hydrocarbon radicals and chloride substituted hydrocarbon radicals, each containing from 1 to 7 carbon atoms and in which any unsaturation is present in a benzene ring.

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**2,649,427**
**COMPOSITIONS CONTAINING A POLYMER OF ACRYLONITRILE AND N,N-DIMETHYLACETAMIDE**
**Carl S. Marvel, Urbana, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application August 9, 1949, Serial No. 109,405**
**11 Claims. (Cl. 260—32.6)**

1. A new composition of matter comprising a homogeneous liquid comprising a polymer of acrylonitrile, containing in the polymer molecule at least 85% by weight of acrylonitrile, and N,N-dimethylacetamide, said liquid containing at least about 10% by weight of said polymer, based on the weight of said liquid.

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**2,649,428**
**MASTIC TILE**
**Donald W. Moore, Lancaster, and Alonzo H. Searl, Lancaster Township, Lancaster County, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**
**No Drawing. Application March 23, 1950, Serial No. 151,522**
**2 Claims. (Cl. 260—33.6)**

1. A mastic tile composition comprising about 60% to 80% by weight of a filler and about 40% to 20% by weight of a binder containing coumarone-indene resin, said resin being plasticized with a plasticizer containing mineral oil, said composition containing about .02% to about 2% by weight thereof of at least one primary aliphatic amino compound containing at least 6 carbon atoms selected from the group consisting of amines and salts thereof.

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**2,649,429**
**VULCANIZATION**
**Julian R. Little, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application January 30, 1951, Serial No. 208,658**
**18 Claims. (Cl. 260—41.5)**

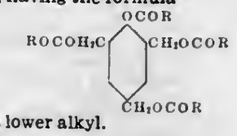
1. The method of vulcanizing synthetic rubber selected from the group consisting of homo polymers of an aliphatic conjugated diolefin and copolymers of an aliphatic conjugated diolefin and another monomer, which copolymers contain copolymerized therein at least 25% of an aliphatic conjugated diolefin, which comprises heating a mixture of said rubber, carbon black in an amount equal to at least 15 parts per 100 parts of said

rubber, and a vulcanizing agent comprising a compound derived from phenol by substituting at least two of the three positions ortho and para to the phenolic hydroxyl group with a $-CH_2A$ group where A is a di-substituted amino radical.

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**2,649,430**
**VULCANIZATION**
**Julian R. Little, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application January 30, 1951, Serial No. 208,659**
**18 Claims. (Cl. 260—41.5)**

1. The method of vulcanizing synthetic rubber selected from the group consisting of homopolymers of an aliphatic conjugated diolefin and copolymers of an aliphatic conjugated diolefin and another monomer, which copolymers contain copolymerized therein at least 25% of an aliphatic conjugated diolefin, which comprises heating a mixture of said rubber, carbon black in an amount equal to at least 15 parts per 100 parts of said rubber, and a vulcanizing agent composed of a compound having the formula

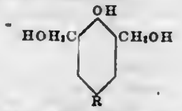


where R is lower alkyl.

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**2,649,431**
**VULCANIZATION OF SYNTHETIC RUBBER WITH ALKYL DIMETHYLOL PHENOL AND FORMALDEHYDE**
**Julian R. Little, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application March 5, 1951, Serial No. 214,009**
**9 Claims. (Cl. 260—41.5)**

1. The method of vulcanizing synthetic rubber selected from the group consisting of polymers of aliphatic conjugated diolefins and copolymers of an aliphatic conjugated diolefin and another monomer, which copolymers contain copolymerized therein at least 25% of an aliphatic conjugated diolefin, which comprises heating a mixture of said rubber, carbon black in an amount equal to at least 15 parts per 100 parts of said rubber, a vulcanizing agent composed of a compound having the formula

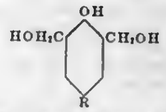


where R is alkyl, and formaldehyde as a vulcanization accelerator.

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**2,649,432**
**VULCANIZATION WITH ALKYL DIMETHYLOLPHENOL AND ALKANOLAMINE**
**Julian R. Little, Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application March 5, 1951, Serial No. 214,010**
**18 Claims. (Cl. 260—41.5)**

1. The method of vulcanizing synthetic rubber selected from the group consisting of polymers of aliphatic conjugated diolefins and copolymers of an aliphatic conjugated diolefin and another monomer, which copolymers contain at least 25% of an aliphatic conjugated diolefin, which comprises heating a mixture of said rubber, carbon black in an amount equal to at least 15 parts per 100 parts of said rubber, a compound having the formula



where R is alkyl in amount equal to from 0.25 to 8 parts per 100 parts of said rubber as the sole vulcanizing agent, and an alkanolamine in amount equal to from 0.5 to 10 parts per 100 parts of said rubber as a vulcanization accelerator.

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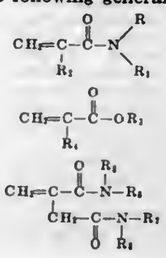
**2,649,433**
**RESOL-ALKYD RESIN PRODUCT**
**Herbert Hönel, Hamburg-Wandsbek, Germany, and Heinrich Manzano, Vienna, Austria**
**No Drawing. Application July 22, 1947, Serial No. 762,789. In Germany November 1, 1941**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires November 1, 1961**
**7 Claims. (Cl. 260—44)**

1. In a process of producing a hardenable resin, the improvement which comprises combining (1) a hardenable low molecular resol obtained from phenol and formaldehyde and free from alkaline catalyst, with (2) a substantially neutral plasticizing alkyd resin containing long aliphatic chains and having an excess of free alcoholic OH groups over the carboxylic groups of the ester forming components, said excess amounting to at least one-gram OH group per 250 g. of the resin, by protracted heating beyond the point of removal of the water contained in the condensation product in a slightly acid medium at a temperature and for a period insufficient for carrying out the hardening reaction but sufficient for effecting etherification, and interrupting the heating before gelation takes place.

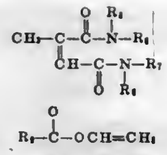
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**2,649,434**
**POLYMERIZATION OF ACRYLONITRILE IN THE PRESENCE OF PREFORMED POLYMERS**
**Harry W. Coover, Jr., Kingsport, Tenn., and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application May 27, 1950, Serial No. 164,854**
**18 Claims. (Cl. 260—45.5)**

1. A process for preparing resinous compositions comprising heating in the presence of a polymerization catalyst a dispersion containing as the sole polymerizable monomer a monomer selected from the group consisting of those represented by the following general formulas:







wherein R and $R_1$ each represents a member selected from the group consisting of a hydrogen atom and an alkyl group containing from 1 to 4 carbon atoms, $R_2$ represents a member selected from the group consisting of a hydrogen atom and a methyl group, $R_3$ represents an alkyl group containing from 1 to 4 carbon atoms, $R_4$ represents a member selected from the group consisting of a hydrogen atom, a methyl group, an acylamino group wherein the acyl group is the acyl group of a saturated aliphatic carboxylic acid containing from 2 to 4 carbon atoms, and a carbalkoxylamino group wherein the alkoxyl group contains from 1 to 4 carbon atoms, $R_5$, $R_6$, $R_7$ and $R_8$ each represents a member selected from the group consisting of a hydrogen atom, a methyl group, and an ethyl group, and $R_9$ represents a member selected from the group consisting of a hydrogen atom and an alkyl group containing from 1 to 3 carbon atoms, until the monomer has substantially completely homopolymerized, adding from 60 to 95 per cent by weight of acrylonitrile, based on combined weights of the other monomer and acrylonitrile, to the reaction mixture containing the resulting, unseparated homopolymer, and heating the reaction mixture until the acrylonitrile has substantially completely polymerized.

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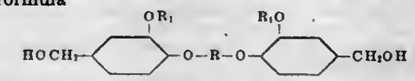
**2,649,435**
**POLYMERIZATION OF ACRYLONITRILE IN PRESENCE OF FORMYLATED POLYVINYL ALCOHOL**
**Theodore E. Stanin and Joseph B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
**No Drawing. Application December 5, 1951, Serial No. 260,103**
**12 Claims. (Cl. 260—45.5)**

1. A process for preparing a composite polymer of acrylonitrile and a polyvinyl resin comprising heating in the presence of a peroxide polymerization catalyst a mixture comprising from 60 to 90 per cent by weight of acrylonitrile and from 40 to 10 per cent by weight of formylated polyvinyl alcohol, said formylated polyvinyl alcohol containing from 10 to 40.27 per cent by weight of formyl.

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**2,649,436**
**PHENOL ETHER RESINS**
**Louis H. Bock and Lewis J. Carlson, Shelton, Wash., assignors to Rayonier Incorporated, Shelton, Wash., a corporation of Delaware**
**No Drawing. Application April 24, 1951, Serial No. 222,734**
**6 Claims. (Cl. 260—47)**

1. The resinous condensation products obtained by heating dihydric alcohols having the formula



wherein R represents one of the divalent aliphatic groups consisting of $-CH_2CH_2-$, $-CH_2-CH_2-CH_2-$, $-CH_2-CH_2-CH_2-CH_2-$ and $-CH_2-CH_2-O-CH_2-CH_2-$, and $R_1$ represents a radical of the group consisting of methyl and ethyl.

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**2,649,437**
**SOLUBLE, FUSIBLE, CONVERTIBLE, UNSATURATED INTERPOLYMERS OF SELECTED DI-2-ALKENYL CITRACONATES OR MESACONATES AND SELECTED 2-ALKENYL ALCOHOLS OR CHLORIDES**
**Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**No Drawing. Application November 15, 1949, Serial No. 127,525**
**2 Claims. (Cl. 260—78.5)**

1. The process which comprises heating a mixture of monomers consisting of monomeric diallyl citraconate and monomeric allyl alcohol in relative proportions of from 0.2 to 20 moles of said allyl alcohol per mole of said diallyl citraconate in the presence of an organic peroxide which is a free radical polymerization initiator for a time sufficient to form an acetone-soluble, fusible, unsaturated interpolymer of said monomers, and interrupting the polymerization at a point prior to the onset of gelation.

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**2,649,438**
**COPOLYMERS OF ACRYLONITRILE AND BASIC ACRYLAMIDES**
**Herman A. Bruson, Shaker Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware**
**No Drawing. Application October 28, 1950, Serial No. 192,829**
**2 Claims. (Cl. 260—85.5)**

1. As a new composition of matter, a copolymer derived by the polymerization of a mixture comprising acrylonitrile and a water-soluble sulfuric acid salt of N-morpholinoethyl acrylamide; said copolymer containing in the polymer molecule at least about 85% by weight of acrylonitrile and between about 2% and 10% by weight of said acrylamide compound.

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**2,649,439**
**PREPARATION OF PLASTIC CONDENSABLE ALKYL ACRYLATE POLYMERS AND SUBSEQUENT ELASTO-CONDENSATION THEREOF**
**Harold P. Brown, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**
**No Drawing. Application November 24, 1950, Serial No. 197,496**
**11 Claims. (Cl. 260—89.5)**

1. The method which comprises preparing a mixture of (1) a plastic polymer derived from a monomeric mixture comprising a major proportion of an alkyl ester of acrylic acid containing from 1 to 12 carbon atoms in the alkyl group reacted first with an alkaline hydrolyzing agent and then with a strong acid so as to introduce into said polymeric acrylic ester from 0.01 to 0.30 chemical equivalent by weight of combined (—COOH) per 100 parts by weight of polymer, and (2) an amount of a polyvalent metal oxide at least equivalent chemically to one-half said polymeric combined (—COOH), and heating the resultant plastic composition at a temperature of from 125 to 400° F. until said plastic composition has been converted to an essentially elastic polymeric metallo-carboxylate.

**2,649,440**

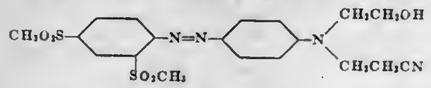
**2,4-BIS(METHYLSULFONYL)-BENZENEAZO-N-HYDROXYALKYL-N-β-CYANOETHYLANILINE COMPOUNDS**

**Joseph B. Dickey and George J. Taylor, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application June 30, 1951, Serial No. 234,682**

**6 Claims. (Cl. 260—207.5)**

2. The azo compound having the formula:



**2,649,441**

**CONTINUOUS CELLULOSE NITRATION**

**William C. Ramsey, Glendale, Mo., assignor to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware**

**Application April 14, 1950, Serial No. 155,879**

**6 Claims. (Cl. 260—220)**



1. In the art of nitrating cellulose, the process comprising suspending a strip of cellulose at points substantially spaced horizontally so that the strip sags downwardly between the points of suspension and the freely suspended reaches of strip have substantial horizontal extent, and moving the freely suspended reaches through a bath of nitrating acid, said bath being confined about the strip so that the top level of the bath of nitrating acid immediately above the valley of the strip is substantially below the top level of the bath where the strip enters and leaves it.

**2,649,442**

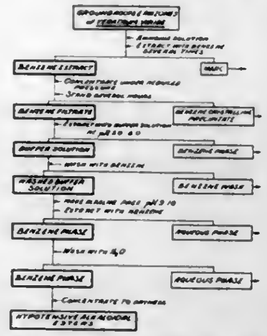
**PREPARATION OF A HYPOTENSIVE AGENT FROM VERATRUM VIRIDE**

**William Lawrence Glen, Baie d'Urfe, Gordon S. Myers, Ville St. Laurent, and Gilles Papineau-Couture, Montreal, Quebec, Canada, assignors to Ayerst, McKenna & Harrison, Limited, Quebec, Quebec, Canada, a corporation of Canada**

**Application February 13, 1951, Serial No. 210,712**

**5 Claims. (Cl. 260—236)**

1. In a process for obtaining the hypotensive alkaloidal esters from *Veratrum viride*, comprising the steps of repeatedly extracting roots and rhizomes of *Veratrum viride* with benzene in the presence of ammonium hydroxide, concentrating the combined benzene extracts and discarding any crystalline precipitate formed, extracting the benzene filtrate with a buffer solution having a pH within the range of from about 5.0 to about 8.0 thereby transferring a major portion of the desired hypotensive alkaloidal esters into the buffer solution, washing said buffer solution with benzene, adjusting the pH of the washed buffer solution to within the range of from about 9 to about 10 and extracting said solution with benzene, washing the benzene phase with water and concentrating the washed benzene phase to dryness under reduced pressure to obtain a residue of the hypotensive active alkaloidal esters substantially free from the undesired alkaloids jervine, veratramine, rubijervine and isorubijervine.



**2,649,443**

**PENICILLIN SALTS OF N-METHYL-(1,2-DI-p-METHOXYPHENYL-2-HYDROXYETHYL) AMINE**

**Vernon V. Young, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland**

**No Drawing. Application July 30, 1952, Serial No. 301,792**

**6 Claims. (Cl. 260—239.1)**

1. The penicillin salts of N-methyl-N-(1,2-bis-p-methoxyphenyl-2-hydroxyethyl) amine.

**2,649,444**

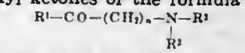
**PROCESS FOR THE PREPARATION OF AMINO KETONES**

**Paul Anthony Barrett, London, England, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York**

**No Drawing. Application October 15, 1949, Serial No. 121,651. In Great Britain October 19, 1948**

**1 Claim. (Cl. 260—247.1)**

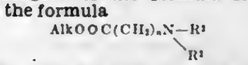
The process of preparing omega-(tertiary amino) alkyl ketones of the formula



wherein $R^1$ is a radical selected from the class consisting of thienyl, benzyl and homocyclic aryl radicals having not over 7 carbon atoms, $n$ is an integer of 4 to 10, $R^2$ is a radical selected from a class consisting of alkenyl, cycloalkyl and aralkyl radicals containing not over 7 carbon atoms, $R^3$ is selected from a class consisting of the alkyl, alkenyl and cycloalkyl radicals containing not over 7 carbon atoms and $R^2$ and $R^3$ in combination containing not over 12 carbon atoms and



can be a heterocyclic radical of the class consisting of N-piperidino, N-pyrrolidino, N-morpholino and N'-alkyl-N-piperazino radicals, which process comprises reacting together a Grignard reagent of the formula $R^1MgX$ with an ester of the formula



wherein $R^1$, $R^2$, $R^3$ and $n$ have the above-mentioned values, hydrolyzing the reaction complex, and recovering the omega-(tertiary amino) alkyl ketone in substantial yield.



**2,649,445**

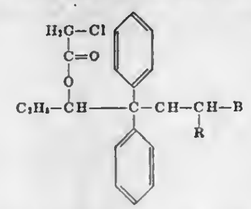
**CHLORACETIC ACID ESTER OF DIPHENYL ETHANOLS**

**Merrill E. Speeter, Syracuse, N. Y., assignor to Bristol Laboratories, Syracuse, N. Y., a corporation of New York**

**No Drawing. Application February 28, 1948, Serial No. 12,141**

**4 Claims. (Cl. 260—247.2)**

1. A member selected from the group consisting of (*a*) compounds having the formula



wherein R is a member selected from the group consisting of methyl and hydrogen and B is a member selected from the group consisting of dimethylamino and morpholino and (*b*) acid addition salts thereof.

**2,649,446**

**PROCESS FOR PRODUCING MELAMINE**

**Raymond A. Vingee, Stamford, Conn., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York**

**No Drawing. Original application May 9, 1947, Serial No. 747,137. Divided and this application June 14, 1950, Serial No. 168,145**

**4 Claims. (Cl. 260—249.7)**

1. A process of producing melamine which comprises heating in a pressure resistant vessel urea and ammonium sulfate in amounts up to and including about 10 mol percent of ammonium sulfate based on the urea taken and maintaining the thus heated materials at temperatures between about 300° C. and about 400° C. and under high pressure until substantial quantities of melamine are present in the reaction mixture, and recovering from said reaction mixture melamine thus produced.

**2,649,447**

**PREPARATION OF 2-THIOCYANO-4,6-DIAMINO-S-TRIAZINE**

**Donald W. Kaiser, Old Greenwich, and John J. Roemer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application July 2, 1952, Serial No. 296,932**

**6 Claims. (Cl. 260—249.8)**

1. The method of preparing 2-thiocyano-4,6-diamino-s-triazine that comprises subjecting dicyanoguanidine to the action of thiocyanic acid in an inert menstruum at a temperature in the range of —10° to 110° C.

**2,649,448**

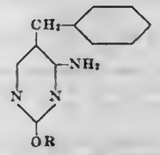
**4-AMINO-5-BENZYLPYRIMIDINE COMPOUNDS**

**Aaron S. Goldberg, New York, N. Y., assignor to Nepera Chemical Co., Inc., Yonkers, N. Y., a corporation of New York**

**No Drawing. Application April 3, 1952, Serial No. 280,394**

**3 Claims. (Cl. 260—256.4)**

1. The pyrimidine compounds of the following formula:



wherein R is a member of the group consisting of hydrogen and alkyl groups containing from 1 to 6 carbon atoms.

**2,649,449**

**2-CYCLOHEXYLAMINO-4-AMINO-5-BENZYLPYRIMIDINE**

**Aaron S. Goldberg, New York, N. Y., assignor to Nepera Chemical Co., Inc., Yonkers, N. Y., a corporation of New York**

**No Drawing. Application April 4, 1952, Serial No. 280,651**

**2 Claims. (Cl. 260—256.4)**

1. The novel pyrimidine compound, 2-cyclohexylamino-4-amino-5-benzylpyrimidine.

2. Process for the production of 2-cyclohexylamino-4-amino-5-benzylpyrimidine which comprises reacting 2-chloro-4-amino-5-benzylpyrimidine with cyclohexylamine.

**2,649,450**

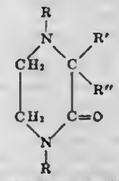
**PREPARATION OF 1,4-DIALKYL-2-KETOPIPERAZINES**

**James S. Strong and W E Craig, Philadelphia, and Vincent T. Elkind, Roslyn, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware**

**No Drawing. Application February 8, 1952, Serial No. 270,762**

**5 Claims. (Cl. 260—268)**

1. A process for preparing a ketopiperazine of the formula



which comprises reacting a diamine of the formula $RNHCH_2CH_2NHR$, a compound of the formula R'R''CO, and hydrogen cyanide in the presence of water and heating the mixture thereof to at least 90° C., in the above formulae R being an alkyl group of not over four carbon atoms, R' being a member of the class consisting of hydrogen, phenyl groups, the furfuryl group, and alkyl groups of not over eight carbon atoms, and R'' being a member of the class consisting of hydrogen and the methyl group, when R' and R'' are individual groups, and when R' and R'' are taken together, they form an alkylene chain of four to five carbon atoms which with the carbon atom to which this chain is attached forms a carbocycle.

**2,649,451**

## COPPER 7-BENZYL-8-QUINOLINATE

**William B. Wheatley, Syracuse, N. Y., assignor to Bristol Laboratories Inc., Syracuse, N. Y., a corporation of New York**

**No Drawing. Application May 24, 1952, Serial No. 289,869**

**2 Claims. (Cl. 260—270)**

1. Copper 7-benzyl-8-quinolinate.

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**2,649,452**

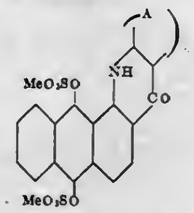
## SOLUBLE VAT DYES OF THE ACRIDONE SERIES

**William B. Hardy and Elizabeth M. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application January 17, 1951, Serial No. 206,516**

**8 Claims. (Cl. 260—276)**

1. A leuco anthraquinone acridone disulfuric half-ester of the formula




where A represents an isocyclic aromatic residue containing no more than three rings, and Me is a monovalent cation.

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**2,649,453**

## PREPARATION OF SOLUBLE VAT DYES OF THE ACRIDONE SERIES

**Elizabeth M. Hardy and William B. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application January 17, 1951, Serial No. 206,517**

**7 Claims. (Cl. 260—276)**

1. A process of converting a 1-arylamino-2-carboxyanthraquinone to the disulfuric ester of the leuco form of the corresponding acridone vat dyestuff, which comprises subjecting the carboxyanthraquinone in aqueous alkaline solution to reduction to its leuco form and reacting the product formed in aqueous alkaline solution with the sulfur trioxide compound of a tertiary amine having a dissociation constant of at least $1\times10^{-7}$ at 25° C., the reduction and esterification effected in the foregoing steps resulting a concomitant cyclization of the arylamino carboxyanthraquinone to the corresponding acridone.

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**2,649,454**

## METHOD FOR PREPARING DIHYDROMORPHINONE, DIHYDROCODEINONE, AND DIHYDROPSEUDOCODEINONE

**Henry Rapoport, Berkeley, Calif., assignor to The Regents of the University of California, Berkeley, Calif.**

**No Drawing. Application August 20, 1951, Serial No. 242,800**

**3 Claims. (Cl. 260—285)**

1. The method of preparing a ketone from an alcohol selected from the group consisting of dihydromorphine, dihydrocodeine and dihydroallopseudocodeine comprising: preparing a solution of potassium tertiary-butoxide in a vessel and then reacting one of said alcohols with benzophenone in said vessel in the presence of said tertiary-butoxide.

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**2,649,455**

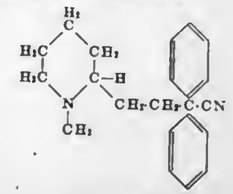
## α,α-DIPHENYL-γ-(1-METHYL-2-PIPERIDYL)-BUTYRONITRILE

**Lewis A. Walter, Madison, Richard H. Barry, Bloomfield, and John R. Clark, Nutley, N. J., assignors to Maltbie Laboratories, Inc., Newark, N. J., a corporation of New Jersey**

**No Drawing. Application March 22, 1951, Serial No. 217,056**

**1 Claim. (Cl. 260—293)**

α,α-Diphenyl-γ-(1-methyl-2 - piperidyl) - butyronitrile having the formula:




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**2,649,456**

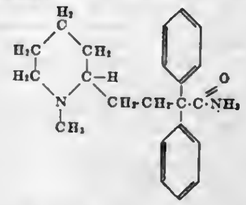
## α,α-DIPHENYL-γ-(N-METHYL-2-PIPERIDYL)-BUTYRAMIDES AND ACID ADDITION AND QUATERNARY AMMONIUM DERIVATIVES THEREOF

**Lewis A. Walter, Madison, Richard H. Barry, Bloomfield, and John R. Clark, Nutley, N. J., assignors to Maltbie Laboratories, Inc., Newark, N. J., a corporation of New Jersey**

**No Drawing. Application July 5, 1952, Serial No. 297,406**

**4 Claims. (Cl. 260—294)**

1 A compound of the class consisting of α,α-diphenyl-γ-(N-methyl-2-piperidyl)-butyramides of the formula:




and the acid solution and quaternary ammonium salts thereof, said compounds having valuable pharmaceutical properties as antispasmodics.

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**2,649,457**

## PREPARATION OF ARYLENETHIAZOLE VULCANIZATION ACCELERATORS

**David J. Beaver, Richmond Heights, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Original application November 24, 1948, Serial No. 61,897. Divided and this application May 14, 1951, Serial No. 226,295**

**3 Claims. (Cl. 260—306.5)**

1. Method of making an accelerator composition which comprises heating with elimination of hydrogen halide in the absence of a solvent above the melting point of the thiazole substantially two molecular proportions of a free mercaptoarylenethiazole and substantially one molecular proportion of a sulfur mono halide and recovering a composite reaction product.



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**2,649,458**

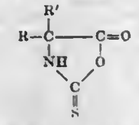
## 2-THIONO-5-OXAZOLIDONES

**George E. Bennett and John B. Ott, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application April 30, 1951, Serial No. 223,834**

**6 Claims. (Cl. 260—307)**

1. As a new chemical compound, the amino acid derivative having the structural formula:




wherein R is a radical of the group consisting of hydrogen, lower alkyl and benzyl and R' is a radical of the group consisting of hydrogen and methyl.

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**2,649,459**

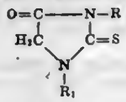
## 2-THIOHYDANTOINS CONTAINING A CARBOXYARYL GROUP AND METHOD OF PREPARATION

**Leslie G. S. Brooker and Frank L. White, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application September 8, 1950, Serial No. 183,906**

**6 Claims. (Cl. 260—309.5)**

1. A compound selected from those represented by the following general formula:




wherein R represents a member selected from the group consisting of an alkyl group of the formula $C_nH_{2n+1}$ wherein $n$ represents a positive integer of from 1 to 4, a monocyclic aryl radical and a naphthyl group and $R_1$ represents a carboxy-aryl group containing from 7 to 11 carbon atoms.

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**2,649,460**

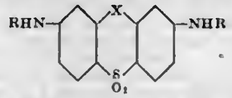
## DERIVATIVES OF 2,7-DIAMINOTHIOXANTHONE DIOXIDE

**Edward Delbert Amstutz, Bethlehem, Pa., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio, a corporation of Delaware**

**No Drawing. Original application July 23, 1946, Serial No. 685,787. Divided and this application December 6, 1950, Serial No. 199,586**

**4 Claims. (Cl. 260—328)**

1. A compound represented by the following formula:




where X is selected from the group consisting of carbonyl and hydroxymethylene, and R is selected from the group consisting of aldehyde sulfoxylate and aldehyde bisulfite radicals, wherein the aldehyde portion of the radicals is selected from the group consisting of formaldehyde and cinnamaldehyde and wherein R is attached to the respective amino groups through its reactive aldehyde carbon atom.

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**2,649,461**

## 5-NITRO-2-THIOPHENECARBOXALDEHYDE OXIME

**Edward C. Hermann, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application June 13, 1951, Serial No. 231,431**

**1 Claim. (Cl. 260—329)**

5-nitro-2-thiophenecarboxaldehyde oxime.

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**2,649,462**

## METHOD FOR STABILIZING AND PURIFYING PHENYLACETALDEHYDE

**David C. Young, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application April 11, 1952, Serial No. 281,917**

**6 Claims. (Cl. 260—340)**

1. The method which comprises subjecting phenylacetaldehyde to the catalytic action of an agent selected from the class consisting of hydrogen fluoride, boron trifluoride, hydrofluoroboric acid and hydrofluorosilicic acid, and recovering 2,4,6-tribenzyl-s-trioxane from the reaction mixture.

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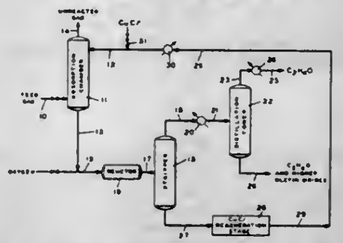
**2,649,463**

## PREPARATION OF OLEFIN OXIDES

**Joseph F. Skelly, New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware**

**Application September 30, 1949, Serial No. 118,844**

**20 Claims. (Cl. 260—348.5)**



1. A process for the production of olefin oxides which comprises contacting an olefin-containing gas in a first reaction zone with a reagent comprising a metal halide selected from the group consisting of copper, platinum, palladium, iridium, aluminum, zinc, silver, mercury and antimony at a temperature between about 30° F. and about 150° F. to form an olefin coordination compound, separating said olefin coordination compound from said gas, oxidizing said olefin coordination compound in a second reaction zone at a temperature between about 400° F. and about 1000° F. to convert said olefin coordination compound to its corresponding olefin oxide and to form an oxygen-containing compound of the metal halide, and separating the olefin oxide thus produced from said oxygen-containing compound of the metal halide.

2,649,464

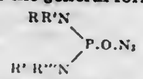
## PHOSPHORUS-CONTAINING ORGANIC COMPOUNDS

**Gilbert Spencer Hartley, Fulbourn, and Denis William Pound, Harston, England, assignors to Pest Control Limited, Bourn, England, a British company**

**No Drawing. Application August 21, 1951, Serial No. 242,995. In Great Britain September 7, 1950**

**6 Claims. (Cl. 260—348)**

1. New phosphorus-containing organic compounds containing less than eleven carbon atoms in the molecule of the general formula:



where R is selected from the group consisting of alkyl groups containing less than five carbon atoms and hydrogen, R' is an alkyl group containing less than five carbon atoms, R'' is selected from the group consisting of alkyl groups containing less than five carbon atoms and hydrogen and R''' is an alkyl group containing less than five carbon atoms.

2,649,465

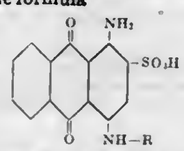
## SULFONATED HYDROARYLAMINO ANTHRAQUINONES

**Samuel von Allmen and Hans Eggenberger, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm**

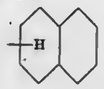
**No Drawing. Application April 16, 1951, Serial No. 221,326. In Switzerland July 5, 1946**

**5 Claims. (Cl. 260—374)**

1. An acid anthraquinone dyestuff which corresponds to the formula



wherein R stands for a radical selected from the group consisting of



and



2,649,466

## REFINING WOOL FAT

**Herbert J. Passino, Englewood, N. J., and James M. Meyers, Rochester, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware**

**Application October 25, 1947, Serial No. 782,174**

**12 Claims. (Cl. 260—426)**

1. A process for refining wool fat which comprises contacting said wool fat with an alkaline neutralizing agent to convert free fatty acids to soaps, contacting the resulting mixture of soaps and neutralized wool fat with a relatively low-boiling liquefied solvent whose critical temperature is not substantially higher than 450° F. at a temperature above the temperature of maximum solubility of the wool fat in the solvent and not lower than 100° F. below the critical temperature of the solvent and under pressure effective to maintain liquid phase conditions, to extract a portion of the wool fat and reject another portion of the wool fat and said soaps, and recovering a refined wool fat from the extract.

2,649,467

## METHOD OF SEPARATING ORGANIC COMPOUNDS OF HIGH HYDROGEN CONTENT FROM THOSE OF LOW HYDROGEN CONTENT

**Ben Brase, Stockholm, Sweden, assignor to Aktiebolaget Seperator-Nobel, Stockholm, Sweden, a corporation of Sweden**

**No Drawing. Application March 30, 1950, Serial No. 152,996. In Sweden April 5, 1949**

**2 Claims. (Cl. 260—428.5)**

1. A process for extracting components relatively rich in hydrogen from mineral oils and fatty oils, which comprises contacting the oil with a perfluorinated hydrocarbon having at least three carbon atoms in the molecule, as a solvent, to produce a raffinate phase containing mainly the components relatively poor in hydrogen and an extract phase containing mainly the components relatively rich in hydrogen, at a temperature at which the oil and solvent are only partly miscible, the solvent extraction being effected in the presence of a second solvent which, at the extraction temperature, is miscible with said oil but is only partially miscible with said first solvent, and separating the two phases.

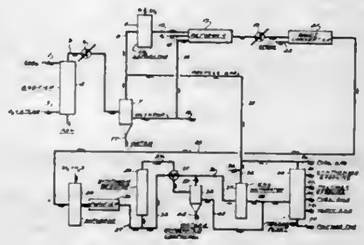
2,649,468

## HYDROCARBON SYNTHESIS PROCESS AND THE PRODUCTION OF SYNTHESIS GAS

**Manson Benedict, Westfield, Albert C. Faatz, Jr., Maplewood, and Herman N. Woebcke, North Bergen, N. J., assignors to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey**

**Application November 12, 1947, Serial No. 785,552**

**4 Claims. (Cl. 260—449.6)**



2. In a process for the synthesis of normally liquid hydrocarbons and the like from carbon monoxide and hydrogen wherein coal is subjected to reaction with oxygen and steam to produce a gas stream rich in carbon monoxide and hydrogen and containing carbon dioxide and hydrocarbons, and carbon monoxide and hydrogen are subjected to a hydrocarbon synthesis reaction producing a synthesis effluent comprising normally liquid hydrocarbons and a gaseous residue including normally gaseous hydrocarbons admixed with hydrogen, carbon monoxide and carbon dioxide; the improvement which comprises separating carbon dioxide from said gas stream and from a portion of said gaseous residue, and thereafter converting the hydrocarbons in said gas stream and in said portion of said gaseous residue to additional carbon monoxide and hydrogen by reacting said hydrocarbons in admixture with said carbon monoxide and hydrogen with substantially pure oxygen in an amount sufficient only for reaction with said hydrocarbons at a temperature within the range of from about 2,000 to about 2,500° F. and at a pressure above about 20 atmospheres in an unpacked reaction zone and in the absence of a catalyst to produce a mixture comprising carbon monoxide and hydrogen substantially free from hydrocarbons and carbon dioxide.



2,649,469

## PROCESS FOR THE PREPARATION OF ORGANIC SULFATES

**Roscoe F. Neighbors, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**

**No Drawing. Application March 29, 1951, Serial No. 218,263**

**4 Claims. (Cl. 260—459)**

1. In a process of producing ammonium oleyl sulfate of improved color and odor by the reaction of oleyl alcohol with sulfamic acid, the characterizing feature which comprises carrying out said reaction in the presence of morpholine as a catalyst.

2,649,470

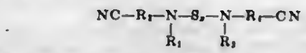
## CYANOALKYL SUBSTITUTED AMINE SULFIDES

**Marion W. Harman, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**No Drawing. Application October 10, 1951, Serial No. 250,787**

**17 Claims. (Cl. 260—464)**

1. As a new composition of matter a compound of the structure



where $R_3$ and $R_4$ are alkylene radicals containing less than five carbon atoms and $R_1$ and $R_2$ are organic radicals containing less than sixteen carbon atoms selected from the group consisting of hydrocarbon radicals mono chloro alkyl radicals, mono cyano alkyl radicals, mono alkoxy alkyl radicals and mono amino alkyl radicals and $x$ is an integer at least one but less than five.

2,649,471

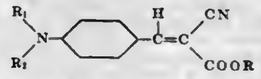
## PROCESS FOR PREPARING METHINE DYES

**William W. Williams, Easton, Pa., and Albert F. Strobel, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

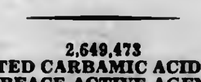
**No Drawing. Application November 6, 1950, Serial No. 194,382**

**5 Claims. (Cl. 260—465)**

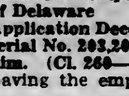
1. A process for producing a compound of the formula:



by heating a composition comprising substantially equimolar amounts of a compound of the formula:



and a compound of the formula:



together with a small amount of an alkaline catalyst, in the absence of an inert solvent, at a temperature sufficient to maintain the starting products and reaction product in a liquid condition until the condensation is completed, R, $R_1$ and $R_2$ in the above formulae being selected from the group consisting of lower alkyl radicals.

2,649,472

## PROCESS FOR PRODUCING ACRYLONITRILE

**Gordon H. Lovett, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware**

**Application August 28, 1950, Serial No. 181,745**

**6 Claims. (Cl. 260—465.3)**

1. The process which comprises partially condensing a gaseous mixture of acrylonitrile containing chlorobutadiene, monovinyl acetylene, divinyl acetylene, and water to obtain a liquid condensate composed of an organic phase and a water phase, adding water to said organic phase to dissolve acrylonitrile, separating undissolved chlorobutadiene, monovinyl acetylene, and divinyl acetylene from the combined water solution of acrylonitrile, combining the said water solution of acrylonitrile with the uncondensed portion of the aforementioned gas mixture, contacting the combined solution with gaseous acetylene, whereby residual chlorobutadiene, monovinyl acetylene, and divinyl acetylene present in said solution are transferred to the gas phase, and a water solution of acrylonitrile substantially free of chlorobutadiene, monovinyl acetylene, and divinyl acetylene is obtained.

2,649,473

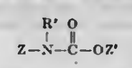
## SUBSTITUTED CARBAMIC ACID ESTERS AS SURFACE ACTIVE AGENTS

**Joseph A. Chenicek, Bensenville, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**

**No Drawing. Application December 28, 1950, Serial No. 203,207**

**1 Claim. (Cl. 260—482)**

A compound having the empirical structural formula:



wherein Z is selected from the group consisting of $-(OR)_xOH$ and R'' and Z' is selected from the other member of said group, R is an alkylene group containing from 2 to 5 carbon atoms per group, R' is selected from the group consisting of hydrogen and alkyl containing from 1 to about 5 carbon atoms per alkyl, R'' is an aliphatic alkyl group containing from 8 to about 25 carbon atoms per group, and $x$ is a whole number having a value of from 2 to about 25.

2,649,474
**METHOD FOR THE PRODUCTION OF DIETHYL ISONITROSOMALONATE**
**John C. Vander Weele, Edgar C. Britton, and Halbert C. White, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
No Drawing. Application September 8, 1951, Serial No. 245,772
3 Claims. (Cl. 260—485)

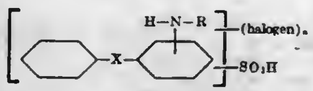
1. A method which comprises dissolving diethyl malonate in from one-third to 3 times its volume of a water-immiscible inert solvent which is separable by distillation from the final product; suspending in said solution at least as many mols of sodium nitrate as the number of mols of diethyl malonate present, and from 1 to 10 per cent by weight of water, based on the weight of sodium nitrate; and adding glacial acetic acid gradually to the suspension while the latter is maintained at a temperature between 30° and 70° C. until the nitrosation of the ester is complete.

2,649,475
**PROCESS FOR THE MANUFACTURE OF METHYL ACRYLATE**
**Frederick James Bellringer, Wimbledon, London, Thomas Bewley, Epsom, Ronald Charles Snell, Hull, and Karl Heinrich Walter Turck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company**
Application June 12, 1951, Serial No. 231,134
In Great Britain June 14, 1950
23 Claims. (Cl. 260—486)

1. Process for the manufacture of methyl acrylate which comprises feeding beta-methoxypropionic acid into a heated reaction medium comprising an acidic catalyst and a substantial proportion of methyl-beta-methoxypropionate and methanol, withdrawing by distillation from the heated medium methyl acrylate substantially at the rate at which it is formed, together with methanol, water and methyl-methoxypropionate by using methyl acrylate and methyl methoxypropionate as entrainers for the water and separating the methyl acrylate from the distillate.

2,649,476
**TRIFLUOROMETHYLATED DIPHENYL ETHER SULFONIC ACIDS**
**Henry Martin, Schaffhausen, Switzerland, assignor to Variapat A. G., Basel, Switzerland**
No Drawing. Application April 24, 1951, Serial No. 222,738. In Switzerland April 29, 1950
6 Claims. (Cl. 260—506)

1. Trifluoromethyl substituted halogenated amino-sulfonic acid compounds of the general formula




where $n$ is a number from 1 to 4 and X is a member of the group consisting of oxygen and sulfur, and R is a monocyclic aromatic mono acyl radical, there being at least one —$CF_3$ group in a nucleus in the compound.

2,649,477
**PROCESS FOR THE MANUFACTURE OF MALEIC ACID**
**David Ian Hutchinson Jacobs, Carshalton, David James Hadley, Epsom Downs, and Robert Heap, Sutton, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company**
No Drawing. Application December 4, 1950, Serial No. 199,146. In Great Britain December 9, 1949
9 Claims. (Cl. 260—533)

1. A process for the manufacture of maleic acid, which comprises oxidising an unsaturated aliphatic compound of 4 to 8 carbon atoms in the vapour phase by means of a molecular oxygen-containing gas in the presence of a catalyst comprising the oxides of phosphorus and molybdenum, said catalyst being substantially free from vanadium and its compounds.

2,649,478
**LONG-CHAIN ALKYLBENZENESULFONAMIDE-ETHYLENE OXIDE CONDENSATION PRODUCTS**
**Joseph J. Carnes, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
Application June 22, 1949, Serial No. 100,658
6 Claims. (Cl. 260—556)

6. The product formed by condensing under alkaline conditions at an elevated temperature at least six mols of ethylene oxide with one mol of a primary long chain-alkylbenzenesulfonamide.

2,649,479
**PROCESS FOR THE MANUFACTURE OF NITRO - AMINO - HYDROXYBENZENE-SULFONIC ACID AMIDES**
**Christian Zickendraht, Binningen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm**
No Drawing. Application February 4, 1952, Serial No. 269,904. In Switzerland February 22, 1951
5 Claims. (Cl. 260—556)

1. A process for the manufacture of a nitro-amino-hydroxybenzene-sulfonic acid amide which comprises heating one mol of a member selected from the group consisting of 2:4-dinitro-1-chlorobenzene-6-sulfonic acid amide, 2:4-dinitro-1-chlorobenzene-6-sulfonic acid methyl-amide and 2:4-dinitro-1-chlorobenzene-6-sulfonic acid phenyl-amide with at least two mols of an alkaline earth metal hydroxide, and reducing the nitro group bound in the 2-position of the resulting product to an amino group by means of a reducing agent selected from the group consisting of alkali and alkaline earth metal hydrosulfides.

2,649,480
**RECOVERY OF OXYTETRACYCLINE**
**Peter P. Regna, Woodcliff, N. J., and Rudolph A. Carboni, Jackson Heights, and Albert E. Timreck, New York, N. Y., assignors to Chas. Pfizer & Co., Inc., a corporation of Delaware**
No Drawing. Application April 3, 1950, Serial No. 153,760
6 Claims. (Cl. 260—559)

1. In the recovery of oxytetracycline from a dilute aqueous solution thereof derived from a microorganism fermentation broth, the step of adding to such a solution maintained at a pH of from about 1.5 to about 3.5 an aryl azo sulfonic acid dye.



2,649,481
**RECOVERY OF DIALKYL AMIDES FROM POLYACRYLONITRILE SPINNING BATHS**
**John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey**
No Drawing. Application May 12, 1951, Serial No. 226,101
4 Claims. (Cl. 260—561)

1. A process of recovering a lower dialkyl amide of a lower fatty acid from an aqueous spinning bath into which a solution of polyacrylonitrile in the dialkyl amide has been spun, which comprises extracting the dialkyl amide with an aliphatic monohydric alcohol selected from the group consisting of the butyl alcohols and the amyl alcohols, and distilling off the alcohol.

2,649,482
**METHOD FOR THE PREPARATION OF 4-CHLORO-2,5-DIALKOXYANILINES**
**Albert Bloom, Summit, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**
No Drawing. Application December 15, 1950, Serial No. 201,057
9 Claims. (Cl. 260—562)

1. The process of producing 4-chloro-2,5-dilower alkoxyanilines which comprises acylating a 2,5-di-lower alkoxy-aniline with an organic acid anhydride, chlorinating the acylated product with hydrochloric acid in the presence of a peroxide at a low temperature, and hydrolyzing the resulting 2,5-dialkoxy-4-chloro-acylanide.

2,649,483
**MIXED LOWER TRIALKANOLAMINES**
**Myron E. Huscher, Merton W. Long, Jr., and John C. Moore, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**
No Drawing. Application January 26, 1948, Serial No. 4,466
3 Claims. (Cl. 260—584)

1. A trialkanolamine corresponding to the general formula

$$(HOCH_2CH_2—)_nN(CH_2—CHOHCH_3)_{3-n}$$

wherein $n$ is a positive integer less than 3.

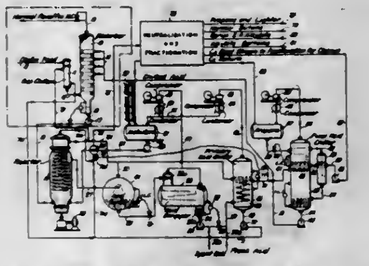
2,649,484
**TRIALKYL HYDROXYLAMINE-SULFUR TRIOXIDE COMPOUNDS**
**William B. Hardy, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine**
No Drawing. Application January 17, 1951, Serial No. 206,515
4 Claims. (Cl. 260—584)

1. The sulfur trioxide addition product of an O,N,N-tri(lower alkyl)-hydroxylamine.

2,649,485
**PRODUCTION OF METHYL ACETYLENE**
**Arthur William Charles Taylor, David Gwyn Jones, and Morag Lauchlan Allan, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**
No Drawing. Application January 3, 1950, Serial No. 136,654. In Great Britain January 18, 1949
7 Claims. (Cl. 260—678)

1. A process for the production of methyl acetylene which comprises the step of subjecting at least one monohalogenated propylene in the vapor phase to decomposition at a temperature of 850° C. to 1050° C. for a time of from .01 to .1 second, calculated at standard temperature and pressure.

2,649,486
**PROCESS FOR PREPARING OLEFINIC HYDROCARBONS AND RECYCLE ACID CATALYST FOR ABSORPTION PRIOR TO ALKYLATION**
**David H. Putney, Kansas City, Mo., assignor to Stratford Engineering Corporation, Kansas City, Mo., a corporation of Delaware**
Application November 17, 1950, Serial No. 196,252
4 Claims. (Cl. 260—683.4)



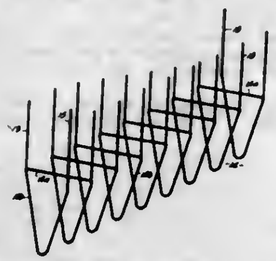
1. A process of alkylating isoparaffinic hydrocarbons and olefins with a catalyst of the sulfuric acid type comprising the steps of contacting the isoparaffins and olefins in the presence of said catalyst in a reaction step, separating the reaction mixture in a separating step maintained at pressures sufficient to keep the hydrocarbons in liquid phase into a liquid catalyst phase and a hydrocarbon phase, simultaneously cooling the acid catalyst and vaporizing hydrocarbons from the catalyst phase in a stripping step operated at pressures below those of the separating step, further cooling the stripped catalyst and passing said catalyst to an absorption step and there contacting it with an olefin-bearing feed stock, and recycling the acid catalyst with the absorbed olefins to the reaction step.

## ELECTRICAL

2,649,487
**IMMERSION HEATER FOR BUSHING FOR FIBER GLASS MANUFACTURE**
**Marion W. Phillips, Kansas City, Kans., assignor to Gustin-Bacon Manufacturing Company, a corporation of Missouri**
Application July 27, 1949, Serial No. 107,095
14 Claims. (Cl. 13—6)

14. An immersion heating element for melting and maintaining molten a batch of glass contained in an insulated vessel, comprising a rod-like resistance element formed with three dimensional convolutions, said element being supported in the glass containing portion of the vessel and the convolutions being in a longitudinally recurring pattern, the corresponding sections of adjoining convolutions being spaced equidistant from one another and also equidistant from the walls and above the bottom of the vessel to evenly distribute the element and heat

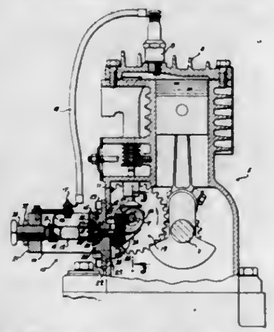
therefrom throughout the batch of glass, and



electrical connections attached to opposite ends of the element.

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**2,649,488**
**ELECTRIC IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES**
**Joseph R. Harkness, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware**
**Application July 31, 1952, Serial No. 301,830**
**27 Claims. (Cl. 123—148)**



1. In an internal combustion engine of the reciprocating type wherein the reciprocation of a piston turns a crank shaft, said engine having a spark plug, means for firing the plug, comprising: a polycrystalline piezoelectric element; circuit means connecting the polycrystalline piezoelectric element and the spark gap of the spark plug in series circuit; and means driven from the crank shaft of the engine for momentarily mechanically stressing the polycrystalline piezoelectric element in timed relation with the reciprocation of the piston.

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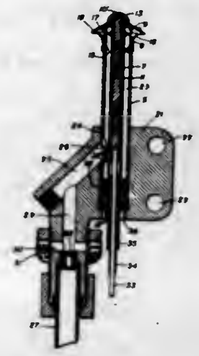
**2,649,489**
**THERMOCOUPLE**
**Robert D. Turkington, Lower Windsor, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**
**Application April 26, 1950, Serial No. 158,291**
**2 Claims. (Cl. 136—4)**



1. A self-contained and replaceable high-sensitivity thermocouple unit comprising a hollow tube of heat-conductive metal, a metal casing spaced radially from and surrounding a portion of the tube, a metal-to-glass seal solely joining said tube and casing, a thermocouple junction disposed at the outer end of said tube and replaceably joined thereto by a mass of conductive metal which seals the outer end of said tube, a lead from said junction extending through said tube and out of the open inner end thereof, and attaching means provided on said casing for replaceably connecting said unit to a supporting structure.

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**2,649,490**
**PILOT BURNER WITH BUILT-IN THERMOCOUPLE**
**George P. Greenamyer, Monrovia, Calif.**
**Application January 23, 1951, Serial No. 207,389**
**17 Claims. (Cl. 136—4)**

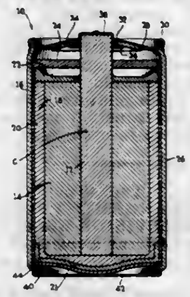


1. In a combination pilot burner and thermocouple, an inner vertical metallic solid rod thermocouple member, and an outer vertical metallic tubular thermocouple member in radially spaced coaxial relation to and surrounding said inner member and having a ported upper end portion on which a radially inwardly projecting portion is provided which is joined to the adjacent end of said inner member to close the upper end of the burner closely above the ported portion and form a hot thermojunction arranged to be heated by the flame from said ports, said outer member having an inlet on its lower end portion for delivery to said ports of a gas and air mixture.

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**2,649,491**
**DRY CELL**
**Maurice Lang, Long Beach, N. Y., assignor to Henry Hyman, New York, N. Y.**
**Application March 2, 1950, Serial No. 147,195**
**10 Claims. (Cl. 136—95)**

1. In combination in a dry cell, a negative container electrode, a positive electrode within and spaced from said container electrode, a paste electrolyte between said electrodes, and a protective covering for said container electrode, said covering including a jacket of electrically nonconductive material wherein the container electrode is disposed and an electrically conductive terminal supported by the jacket and attached thereto by a leak resistant joint, and in contact with the external surface of the container electrode, said terminal being composed of a metal which is electropositive with respect to the second named electrode when upon at least partial consumption of the container electrode effluent electrolyte contacts said terminal and when the



latter becomes an active electrode in the electrochemical reaction of the cell.

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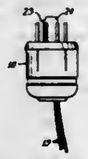
**2,649,492**
**VOLTAIC CELL**
**Alfred Linton and Richard W. Lewis, Dundee, Scotland, assignors to Burndept Limited, London, England, a British company**
**Application August 29, 1951, Serial No. 244,132**
**In Great Britain December 11, 1950**
**6 Claims. (Cl. 136—111)**



1. A connector and cell container for electric dry batteries of the layer type, comprising a cup to receive the electrodes and electrolyte, at least a part of the area of the bottom of said cup consisting of a conductive and impervious agglomeration of finely divided carbon in a matrix of polythene, and the remainder of the cup of polythene alone integrally united with the conductive agglomeration.

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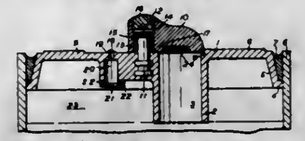
**2,649,493**
**BATTERY CONNECTION**
**Lemuel M. Temple, North Haven, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware**
**Application July 26, 1949, Serial No. 106,788**
**8 Claims. (Cl. 136—135)**



1. A battery construction capable of delivering one of a number of voltages, said battery comprising a plurality of cell units, each having a positive terminal and a negative terminal, a socket member for the battery having a socket individually connected to each said terminal, and a series of plugs to be used alternately and separately with said battery to provide the desired voltage, each plug carrying pins to be received in the sockets, two of the pins being connected to leads, and connections between the remaining pins to connect the cell units to each other.



**2,649,494**
**VENT AND FILLING DEVICE FOR STORAGE BATTERIES**
**John Ronald Martin, Denton, near Manchester, England, assignor to Oldham & Son Limited, Denton, near Manchester, England, a British company**
**Application July 24, 1950, Serial No. 175,508**
**In Great Britain August 17, 1949**
**4 Claims. (Cl. 136—178)**



1. For an electric accumulator, a cover having a filler opening in a filling tube integral therewith to extend into an accumulator to a point approximating to or slightly below the desired acid level, in combination with a stopper seating formed by a recess disposed about the outer end of said filler opening to be somewhat lower than the upper level of said cover, a spindle secured to and extending outwards from the top of the cover, a rigid stopper movable angularly about and axially of the spindle, a stepped portion on the undersurface of said stopper adapted in one angular position of the stopper to fit within the said recess, an abutment extending laterally from the spindle to restrain the stopper against detachment from the spindle, and resilient means acting between said abutment and the stopper to urge the under surface of said stopper against the upper surface of said cover and, upon angular movement of said stopper about said spindle to or from said one angular position, respectively effect sealing engagement between said recess and said stepped portion on said stopper, or disengagement of said recess and said stepped portion.

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**2,649,495**
**BATTERY CAP**
**Henry A. Kennedy, Philadelphia, Pa., assignor to Gould-National Batteries, Inc., St. Paul, Minn.**
**Application May 12, 1951, Serial No. 226,084**
**8 Claims. (Cl. 136—178)**



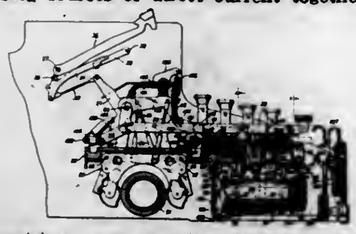
2. A storage battery filler opening cap device for a storage battery, said cap device comprising an annular mounting device, the external surface of which is serrated in the direction of the annular axis and adapted to be pressed and rotated for deformation of the serrations into threaded connection with a screw-threaded opening in a storage battery cell cover, and a cap having a hinge connection with said mounting device.

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**2,649,496**
**TELETYPEWRITER CIRCUIT**
**Edwin O. Blodgett, Rochester, N. Y.**
**Application May 29, 1952, Serial No. 290,808**
**10 Claims. (Cl. 178—2)**

1. A teletypewriter circuit for interconnecting a plurality of electrically operated typewriters with a minimum number of connections wherein

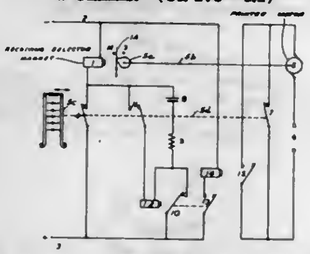
each typewriter has a plurality of electromagnets for controlling specific operations of the typewriter, a plurality of selector switches, and a source of direct current; said circuit comprising means for connecting in parallel corresponding electromagnets of each typewriter selected to receive a message; said means including a common interlocking connection connecting one side of said sources of direct current together and



comprising one connection between the typewriters, and means connected to said selector switches comprising a common connection for the electromagnets of each typewriter and being another connection between the typewriters, so that there is a total of one connection for each of the electromagnets in addition to one interlocking connection and one connection for each typewriter in the system.

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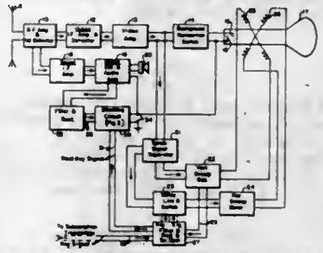
**2,649,497**
**CONTROL OF DRIVING MOTORS OF TELEPRINTERS**
**Leslie Stampe Munck, Croydon, England, assignor to Creed and Company Limited, Croydon, England, a British company**
**Application December 31, 1949, Serial No. 136,322**
**In Great Britain January 4, 1949**
**2 Claims. (Cl. 178—4.1)**



1. A circuit for remotely controlling a teleprinter motor over a signal current path comprising a receiving magnet having an armature associated therewith, means coupled to said motor for mechanically assisting said armature, a function member actuable under control of said armature upon receipt by said magnet of a characteristic code signal combination over said path, said signal combination preceding a change in current condition on said path, a plurality of contacts coupled to said function member, a first of said contacts adapted to normally connect said motor to a source of power, a second of said contacts adapted to normally connect said receiving magnet to said receiving path, counter-potential means in shunt with said second contact, a first relay serially connected between a third of said contacts and said counter-potential means, said first relay adapted to operate upon removal of current from said path after said function member has been actuated and said second contact has been opened and said third contact is closed, a second relay serially connected between said line and an additional contact associated with said first relay, a further contact associated with said second relay adapted to re-connect said motor to a source of power to restart said motor when said second relay is energized by signalling currents received over said path after said function member has been actuated, said armature adapted to control the return of said function member to its unactuated position to re-cycle said circuit.

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**2,649,498**
**BLANKING ARRANGEMENT FOR SUBSCRIPTION TELEVISION RECEIVERS**
**Alexander Ellett, River Forest, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois**
**Application March 3, 1949, Serial No. 79,425**
**3 Claims. (Cl. 178—5.1)**

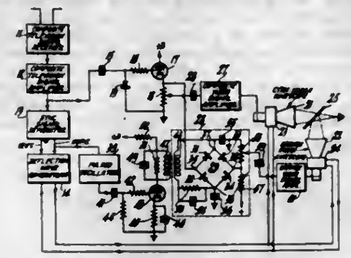


3. In a wave-signal receiver including a tuning device for tuning said receiver to utilize a coded modulated electrical signal, said receiver concurrently utilizing a key signal to decode the coded signal: an intelligence-reproducing device; circuit means for demodulating said electrical signal and for utilizing the demodulated signal to actuate said reproducing device; decoding apparatus coupled to said circuit means and responsive to said key signal for decoding said coded signal; a switching device mechanically coupled to said tuning device; a network coupled to said reproducing device and controlled by said switching device for disabling said reproducing device when said receiver is tuned to receive said coded signal; and a control circuit coupled between said circuit means and said network and responsive to said key signal for disabling said network.

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**2,649,499**
**SIMPLIFIED COLOR TELEVISION RECEIVER**
**Allen A. Barco, Warren H. Bliss, and Marshall M. Carpenter, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware**
**Application August 22, 1951, Serial No. 243,042**
**6 Claims. (Cl. 178—5.4)**

1. In a color television system of the type in which a composite television signal includes predetermined phases of a carrier wave which are modulated by video signals respectively representing a plurality of primary colors of a subject, apparatus for reproducing an image of said subject in a smaller number of colors than are represented by said video signals comprising, means for extracting from said video signal-modulated carrier wave video signals representative of a first one of the colors in which said image is to be reproduced, first means energizable to reproduce said first image color, means impressing said extracted video signals upon and energizing said first image-reproducing means, second means energizable to reproduce a second image color, and means impressing said composite television signal



upon and energizing said second image-reproducing means.

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**2,649,500**
**INSPECTING APPARATUS**
**William J. Fedorchak, Granite City, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio**
**Application December 16, 1949, Serial No. 133,415**
**5 Claims. (Cl. 178—6.8)**

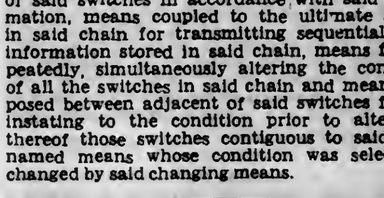


1. Apparatus for testing the inner surface of an open-mouth container for surface defects, said apparatus comprising a support for the container, a source of radiation comprising a lamp having an annular bulb providing a passageway for reflecting radiation, means for supporting said bulb adjacent to and substantially concentric with the open mouth of a container supported in upright position on said support and thereby flooding the interior surface of the container with said radiation, a mosaic screen, a photographic lens, means for supporting said lens and screen in register with said lamp bulb and in position to cause radiation reflected from said surface to be projected through the said passageway and produce an image of said surface on the screen, a cathode ray tube, scanning means for causing the cathode ray supplied by said tube to scan said image, and means for amplifying an impulse produced in the circuit of said cathode ray when the image of a defect in said surface is brought into the path of said ray.

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**2,649,501**
**TELEVISION TRANSMITTING APPARATUS**
**John E. Cope, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company**
**Application November 23, 1949, Serial No. 129,009**
**In Great Britain November 24, 1948**
**5 Claims. (Cl. 178—7.2)**

1. Television transmitting apparatus comprising a pick-up tube having its output electrode connected to a load resistor, means for feeding the voltage variations across said resistor to an amplifier, and means for applying the amplifier output to the output electrode of the pick-up tube as a negative feed-back voltage, said feedback amplifier comprising a multi-stage amplifier of



which the time constants of all the stages, except one, are large so that no phase shift takes place before about 20 cycles per second, the said excepted stage having a time constant which produces linear decay with falling frequency.

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**2,649,502**
**ELECTRICAL CIRCUITS EMPLOYING GASEOUS DISCHARGE TUBES**
**Alexander Douglas Odell, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application March 3, 1950, Serial No. 147,378**
**In Great Britain March 4, 1949**
**9 Claims. (Cl. 178—17)**



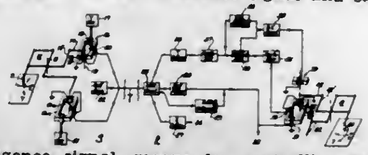
1. An electric circuit for the storage and transmission of information comprising a plurality of interconnected static switches arranged in a chain, one switch for each element of information adapted to be stored and transmitted, means for selectively changing the condition of selected of said switches in accordance with said information, means coupled to the ultimate switch in said chain for transmitting sequentially the information stored in said chain, means for repeatedly, simultaneously altering the condition of all the switches in said chain and means disposed between adjacent of said switches for reinstating to the condition prior to alteration thereof those switches contiguous to said last-named means whose condition was selectively changed by said changing means.

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**2,649,503**
**METHOD AND APPARATUS FOR SIGNAL COMMUNICATION**
**Robert Adler, Chicago, Ill., assignor to Consolidated Electric Company, Chicago, Ill., a corporation of Illinois**
**Application November 2, 1949, Serial No. 125,015**
**6 Claims. (Cl. 178—18)**

1. In the receiving station of a follow-up system wherein a transmitted intelligence signal is continuously compared with a locally generated signal determined at each instant by the position

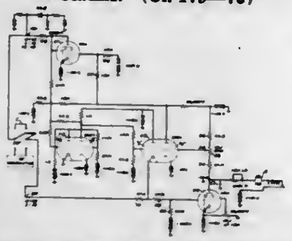
of a following element, said system including means for producing a reference signal of substantially constant magnitude, and means for imposing upon said reference signal adverse variations in magnitude proportional to those imposed upon said intelligence signal, means for substantially eliminating the effects of adverse variations in the magnitude of an electric intelligence signal of variable magnitude comprising, an amplifier for said reference signal and said



intelligence signal, means for controlling said amplifier to maintain said reference signal as amplified at a substantially constant predetermined magnitude, means for utilizing said reference signal as amplified to excite such local generator, and means for continuously producing a second intelligence signal the magnitude of which is a function of the difference in magnitude between said first intelligence signal as amplified and such local signal.

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**2,649,504**
**ELECTRONIC SUBSCRIBER'S LOOP TELEGRAPH REPEATER**
**James R. Davey, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application July 12, 1950, Serial No. 173,442**
**10 Claims. (Cl. 178—73)**

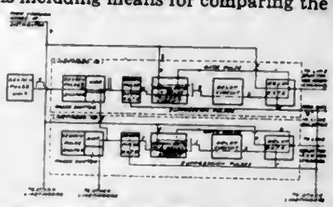


1. An electronic subscriber loop direct-current telegraph hub repeater and control circuit comprising a loop transmission conductor, a first space discharge device which transmits toward the loop, an output circuit for said device, a second space discharge device which transmits direct-current signals toward the hub, and an input circuit for said second device, said conductor connected directly to a junction between said input and said output circuits.

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**2,649,505**
**PULSE TIME POSITION SWITCHING SYSTEM**
**David Hiram Ransom, William Leslie Roberts, and Ronald Harold Taplin, London, England, assignors to International Standard Electric Corporation, New York, N. Y.**
**Application December 30, 1947, Serial No. 794,724**
**In Great Britain October 4, 1946**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires October 4, 1966**
**11 Claims. (Cl. 179—15)**

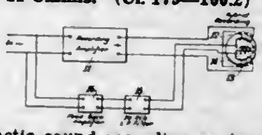
1. A switching system comprising a plurality of input circuits, means for allotting to such input circuits individual time positions in a recurring cycle of time positions, means for producing a pulse in response to a signal applied to an input circuit, said pulse being characteristic of said signal and being produced at the time position allotted to such input circuit, means for generating search pulses at a frequency different from the recurrence frequency of said cycle, a plurality of segregating means connected to said input circuits, and means for applying the search pulses to said segregating means, each segregating means including means for comparing the timing



pulses produced as aforesaid with the said search pulse and, on the coincidence in the segregating means of a pulse produced as aforesaid with a search pulse, to segregate further pulses at the same time position as the coincident pulse from pulses at other time positions and from said search pulses, and means for ensuring that such a coincidence cannot be effective in any two or more of the segregating means simultaneously in respect of the same pulse.

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**2,649,506**
**NEGATIVE FEEDBACK APPLIED TO MAGNETIC RECORDING**
**Michael Lawrence Gayford and William Donald Cragg, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application January 14, 1949, Serial No. 70,832**
**In Great Britain January 16, 1948**
**11 Claims. (Cl. 179—100.2)**



1. Magnetic sound recording equipment comprising a recording head to which intelligence carrying signals are fed, a magnetic pickup unit positioned in close proximity to said head and including a core and a pick-up coil associated therewith, means, including said pick-up for generating negative feed-back signals having substantially the wave shape of the said intelligence signals as distorted by the recording medium and means for feeding the said negative feedback signals together with said intelligence signals to the recording head whereby inherent distortion due to non-linearity in the magnetisation of the said medium is substantially reduced or eliminated.

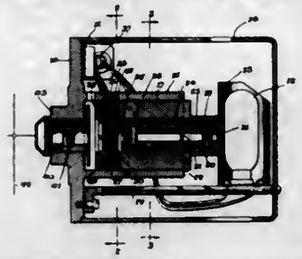
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**2,649,507**
**CRYSTAL LIGHT VALVE FOR SOUND-ON-FILM RECORDING**
**Robert Dressler, Elmont, N. Y., and Albert A. Chesnes, Elmhurst, N. Y., assignors, by mesne assignments, to Paramount Pictures Corporation, New York, N. Y., a corporation of New York**
**Application August 28, 1951, Serial No. 244,076**
**10 Claims. (Cl. 179—100.3)**

1. A light modulator for sound-film recorder comprising in combination a light source, a plate



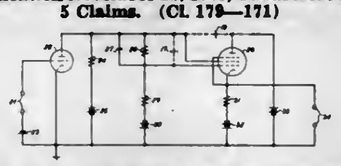
having a slit therein, means for focusing light from said source on said slit, a piezoelectric crystal, means for collimating a beam of light from said slit through said crystal, a polarizer in the path of light between said collimating means and said crystal, means for focusing a beam of light



from said crystal upon a film, an analyzer interposed in the path of light between said crystal and said focusing means, and means for applying a sound modulator voltage to said crystal to rotate the plane of polarization to thereby vary the light transmitted to the film.

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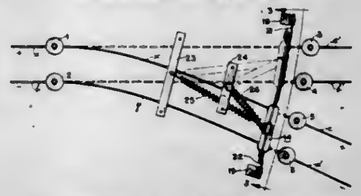
**2,649,508**
**INTERSTAGE COUPLING CIRCUIT FOR WIDE BAND AMPLIFIERS**
**Charles W. Harrison, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 12, 1948, Serial No. 59,701**
**5 Claims. (Cl. 179—171)**



1. A wide band amplifier which comprises an amplifying device having at least an anode, a cathode, a control grid, and a screen grid, a signal input path for said device connected between one of said grids and said cathode, said signal input path including in serial relation a source of input signals and a signal utilization circuit with said signal utilization circuit adjacent said cathode, a space current path for said device connected between said anode and said cathode, said space current path including in serial relation a source of space current and said signal utilization circuit with said signal utilization circuit adjacent said cathode, said signal utilization circuit being common to both said signal input path and said space current path, whereby said device operates as a cathode follower, impedance means opaque to direct current connected between said control and screen grids to maintain them at substantially the same potential with respect to signal frequency current, and means to bias said control and screen grids to different potentials relative to said cathode, said last-mentioned means including a source of direct potential connected between said screen grid and the side of said signal utilization circuit away from said cathode, a first resistance direct-current path connected between said control grid and said screen grid, and a second resistive direct-current path connected between said control grid and said side of said signal utilization circuit away from said cathode.



**2,649,509**
**DOUBLE TROLLEY TURNOUT**
**Warren J. Lewis, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey**
**Application August 9, 1950, Serial No. 176,474**
**7 Claims. (Cl. 191—38)**



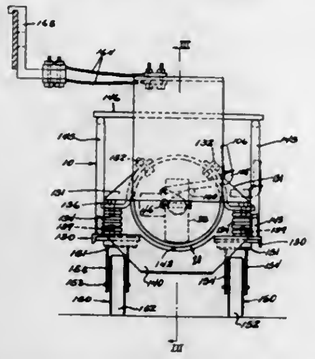
1. In combination, a pair of main trolley wires of opposite polarity having a fixed portion and a laterally movable portion and a pair of fixed branch wires of opposite polarity, the branch wires spaced from the fixed portion of the main wires, the movable portion of the main wires being bendable at a point remote from their free ends until the free ends are in alignment with the free ends of either the free ends of the fixed portion of the main wires or the free ends of the fixed branch wires, all wires being normally in a common plane, insulating supports at the free ends of the branch wires and of the said fixed portion and at the said remote point of the main wires to support the said movable portion at the remote point, an insulating slide attached to the free ends of the switch wires whereby the free ends are held in spaced relation, a yoke shaped track with secured ends to support the said slide and upon which the slide may be moved to either of its two positions to bring the free ends of the switch wires into longitudinal alignment with the free ends of the branch and of the fixed main wires, the end portions of the track being straight and aligned with each other to support the slide in its aligned positions, the portion of the track intermediate the end portions of the track being depressed to permit the slide to dip down whereby the ends of the switch wires secured thereto will pass laterally below the free ends of the said fixed wires and branch wires in passing from one position to the other, and spring means to yieldingly hold the slide in either of its extreme positions, the said spring means comprising a compression spring, and a tension spring acting counter to the compression spring both as to its holding resultant and its pressure of the slide against the yoke-shaped track.

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**2,649,510**
**PORTABLE JACK UNIT FOR ELECTRIC CIRCUITS**
**John L. Michaelis, New Martinsville, W. Va., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware**
**Application July 12, 1950, Serial No. 173,376**
**6 Claims. (Cl. 200—2)**

1. An electric control device comprising a portable carriage, a horizontally disposed tubular switch body having conductors connected thereto and engageable interchangeably in shunting relation with electric connections in any of a plurality of electrochemical cells connected in series in an electric circuit, means for supporting the tubular body on the carriage, mercury in the lower portion of the tubular

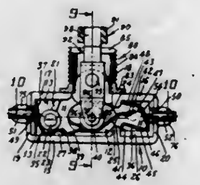
body, a circuit making and breaking rotor movable into and out of contact with said mercury, said rotor and tubular body having complemental surfaces in close proximity in the position of circuit making and defining a film of mercury between said surfaces to complete an



electric circuit through said rotor and tubular body the complemental surfaces defining said film covering an area extending at least a major portion of the axial length of the tubular body, and means for moving the rotor out of contact with the mercury.

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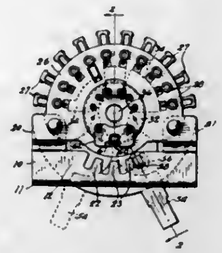
**2,649,511**
**SWITCH**
**Edwin G. Gaynor, Fairfield, Conn.**
**Application October 18, 1949, Serial No. 121,990**
**6 Claims. (Cl. 200—6)**



4. In a switch, an elongated hollow body of insulating material having a pair of parallel side-by-side longitudinally extending recesses, a pair of contacts in each of said recesses each comprising a stationary contact and a movable contact, each said movable contact including an anchoring portion and a spring arm, said stationary contacts being mounted in the opposite ends of the respective recesses, said anchoring portions of said movable contacts being mounted in the opposite ends of the respective recesses from said stationary contacts, and said spring arms extending longitudinally in said respective recesses into vertically opposite overlapping relation with the stationary contacts therein, a manual pivoted on said body including a horizontal part disposed transversely above said respective spring arms of said movable contacts, said manual having a medial normal position and being pivotally movable in opposite directions from said normal position, the movable contact of one pair of contacts being upwardly movable into contacting relation with its stationary contact, and the movable contact of the other pair of contacts being downwardly movable into contacting relation with its stationary contact, the spring arm of said one pair of contacts including an intermediate portion, vertically opposed to said horizontal part of said manual in the normal position of the latter wherein said movable contact is in contact with its stationary contact, and a rising recessed portion at the side of said intermediate portion toward said stationary contact engageable by said horizontal part of said manual upon pivotal movement of said manual in one direction to move said movable contact into open position and to yieldably retain said manual in said moved position, and said other movable contact including a recessed portion vertically opposed to said horizontal part of said manual in the normal position of said manual to yieldably retain said manual in its normal position and to position said movable contact in open position relative to its stationary contact, and a rising biasing portion at the side of said recessed portion toward said stationary contact engageable by said horizontal part of said manual upon pivotal movement of said manual in the opposite direction from its first mentioned direction of movement to move said movable contact into contacting relation with its stationary contact and adapted upon release of said manual to bias said manual to return to its normal position under the spring action of said movable contact.

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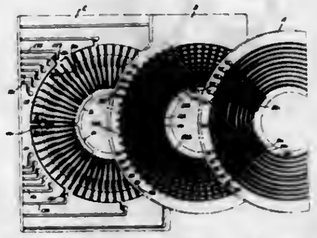
**2,649,512**
**ELECTRIC SWITCH**
**Wilhelm A. Streuer, Mount Prospect, and Edward J. Mastney, Berwyn, Ill., assignors to Oak Mfg. Co., a corporation of Illinois**
**Application June 3, 1952, Serial No. 291,398**
**3 Claims. (Cl. 200—6)**



1. A rotary switch comprising a generally U-shaped base plate member, the bottom of the U being flat for panel mounting, one U arm having two spaced parts and the other U arm having an apertured end, a rotary switch having a stator and rotor, means for supporting the stator on the two spaced parts of said one U arm, a pin carried by said apertured end of the other U arm and normal thereto, said pin passing through said rotor, an actuating lever carried by said pin and having a handle portion extending through a slot in the flat panel mounting portion, a ball retainer carried by said lever, a ball in said retainer freely movable normal to the lever body plane, a spring arm carried by said pin and extending between the other U arm and lever body, said arm cooperating with said ball in all lever positions to press said ball toward the one U arm, index teeth formed in said one U arm so that said ball provides and index action, and means to couple said lever and rotor.



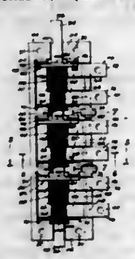
**2,649,513**
**DISTRIBUTOR AND METHOD FOR MAKING THE SAME**
**Hans P. Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York**
**Application March 8, 1949, Serial No. 80,266**
**12 Claims. (Cl. 200—11)**



1. A distributor composed of a plurality of plate-like non-conducting components having circuit paths deposited on opposite faces thereof comprising, a connector plate component having input, output, and distributing paths on the inner face thereof, and impulse distributing paths on the outer face thereof, means extending through said component connecting certain of said distributing paths with paired output paths, a bus component having current paths on the opposite faces thereof, a circuit pattern component interposed between said connector component and said bus component, circuit paths on the opposite faces of said circuit pattern component common respectively to the paths on the confronting faces of the bus component and the connector component, the circuit paths on the opposite faces of said bus and pattern components being so arranged respectively that a transverse projection of any circuit path on one face thereof intersects all of the circuit paths on the opposite face thereof, means connecting the input leads of the connector component with the paths on the inner face of said bus component, and connections, including selective paths through said circuit pattern component, for conducting impulses to predetermined ones of the distributing paths on the outer face of said connector component.

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**2,649,514**
**ELECTRIC SWITCH**
**Richard P. Ballou, Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J., a corporation**
**Application August 17, 1949, Serial No. 110,732**
**22 Claims. (Cl. 200—16)**



1. A housing for a switch having companion fixed and movable contact elements, said housing comprising a base member and a cover member, said members being interchangeable and each having a bottom wall and opposed lateral walls upstanding therefrom, said bottom wall being provided with recessed portions for insertably receiving the ends of the fixed contact elements and with a guideway forming portion for guiding said movable contact element, said guideway portion being intermediate said lateral walls and parallel thereto, one of said lateral walls being provided with spaced portions for receiving the terminal ends of said fixed contact elements, and means releasably retaining the corresponding walls of both of said members in abutment.

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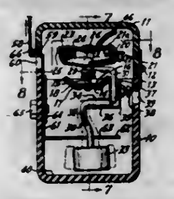
**2,649,515**
**CONTACT BREAKER OF IGNITION SYSTEMS FOR INTERNAL-COMBUSTION ENGINES**
**Lucien Delorme, Paris, France, assignor to Societe Anonyme dite: Etablissements Ducellier, Paris, France**
**Application July 9, 1951, Serial No. 235,861**
**In France July 8, 1950**
**3 Claims. (Cl. 200—30)**



1. A contact-breaker for ignition system comprising a supporting member, a rubber cushion carried by said supporting member, a fixed contact, an arm carrying said fixed contact, said arm passing through said rubber cushion without touching said supporting member, and a movable contact coöperating with said fixed contact.

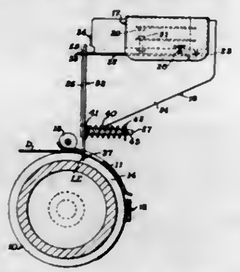
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**2,649,516**
**ALARM-INITIATING DEVICE FOR AUTOMOBILES**
**Walter A. Wojcik and Metro Yetako, Detroit, Mich.**
**Application May 11, 1950, Serial No. 161,362**
**2 Claims. (Cl. 200—52)**



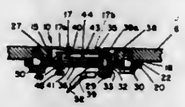
2. An electric mercury switch including a casing, a horizontal platform therein, coil springs supporting said platform, a pendulum including a crank-shaped stem and a weight at the lower end thereof, the stem being suspended from said platform, an arcuate tube mounted on the stem above the level of its suspension from the platform, the mid-portion of the tube being at a lower level than its end portions, electric terminals projecting through the end portions of the tube into the interior thereof, a quantity of mercury within the tube normally in contact with one terminal, and a clamping plate to anchor the pendulum against its swinging movement, the clamping plate being adapted to be operated by manual means.

2,649,517
**DOCUMENT-ACTUATED DEVICE FOR EFFECTIVELY DELAYING A SWITCHING INTERVAL**
John F. Egan, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 1, 1951, Serial No. 259,391
6 Claims. (Cl. 200—52)



1. A document-actuated device for effectively delaying the switching interval of a switch means comprising an actuating finger, means for moving spaced documents past said finger, resilient means for maintaining said finger in the path of the documents, said finger being mounted for movement by the leading edge of a document to a position in which said finger engages the surface of the document, and contacts controlled by said finger and adapted to be switched thereby upon movement of said finger over the surface of the document, the delay interval being measured by the time during which the finger travels with the document plus the time during which the finger is moved over the surface of said document by said resilient means and in an opposite direction with respect to the document to switch said contacts.

2,649,518
**DIAPHRAGM ACTUATED ELECTRICAL SWITCH**
Karl T. Fuehring, Hollydale, Calif., assignor of one-half to Charles E. Moose, Los Angeles, Calif.
Application January 10, 1950, Serial No. 137,790
1 Claim. (Cl. 200—58)



In an electrical switch, a casing having a diaphragmatic top wall, a continuous side wall having a surrounding flange and a closure plate secured to said flange in sealing relationship thereto, a post carried by said closure plate and disposed in said casing, a first switch arm supported by said post and extending transversely of the casing adjacent said top wall, said switch arm having an opening therethrough, a second resilient switch arm supported by said post and disposed beneath said first switch arm, said arms having electrical contact elements engageable with each other, and a pin carried by the second switch arm and projecting through said hole into position engageable by said top wall whereby flexure of said top wall actuates said second switch arm.

2,649,519
**ELECTRICAL LOW PRESSURE FLAT TIRE INDICATOR**
Boyd B. Brown, San Francisco, Calif.
Application December 18, 1951, Serial No. 262,260
1 Claim. (Cl. 200—58)



In combination with a wheel having a metal rim, a tire mounted thereon and an inner tube in said tire, a switch comprising a plunger slidable through the rim for engagement with the inner side of the tube, an L-shaped metallic casing having the outer end of the vertical leg thereof secured in the rim and enclosing said plunger, a coil spring surrounding the plunger and coacting with the plunger and vertical leg for normally forcing the plunger in an outward direction into engagement with the tube, an elongated switch contact insulatingly mounted in the horizontal leg of the L-shaped casing and projecting outwardly of the open end thereof, means for anchoring said contact in fixed position, a leaf spring switch contact at the inner end of the vertical leg of the L-shaped casing on the wall thereof opposite the horizontal leg of the casing in line with the elongated switch contact and normally held in spaced relation from the inner end of said elongated switch contact by said plunger and a source of electrical energy in communication with the outer end of the elongated switch contact and including a stationarily mounted contact member adapted to engage the outer end of the elongated contact during rotation of said wheel.

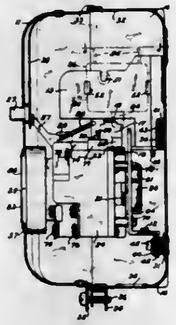
2,649,520
**ELECTRICAL SWITCH**
Raymond J. Hartz, Cuyahoga Falls, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 24, 1951, Serial No. 228,081
5 Claims. (Cl. 200—67)



1. In an electrical snap action switch, a base carrying spaced upper and lower contact points, a contact arm carrying contacts at one end on its both sides to alternately engage said contact points, said contact arm being of springy material and longitudinally channeled and having its other end rigidly secured with its convex face against said base, a pivoted operating lever having at its free end a single member normally spring urged to engage the lower convex side of said channeled arm to flex said arm to bring a contact into engagement with said upper contact point, a limit stop bridge carried by said base arranged above said contact arm closely adjacent said operating lever member and between the same and said contacts to limit the upper movement of said contact arm, said operating lever, upon pivotal operation against its biasing spring, being adapted to force said contact arm against said bridge and flatten said channeled contact arm at the point of engagement of the operating lever member with said arm to suddenly snap said arm the other direction about said point as a pivot to disengage said contact with said upper contact point and engage said other contact with said lower contact point.

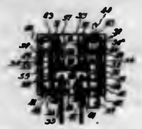


2,649,521
**MAGNETIC SWITCH**
Harold E. Cobb, Aurora, and William C. Furnas, Batavia, Ill., assignors to Furnas Electric Company, Batavia, Ill., a corporation of Illinois
Application April 13, 1950, Serial No. 155,651
6 Claims. (Cl. 200—104)



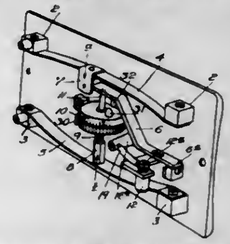
2. In a magnetic switch, a frame, an electromagnet mounted upon said frame and having a reciprocable armature, a terminal board mounted upon said frame and having fixed contacts disposed in the path of movement of said armature but spaced therefrom, a contact carrier bar movable toward said board by said armature, movable contacts mounted upon said carrier bar and cooperating with said fixed contacts, a thermal overload relay carried by said frame on each side of said magnet, a reset button for said relays, and a yoke pivotally mounted upon said frame and having spaced eccentric portions and a central arm movable by said button to cause said eccentric portions to contact said bar and open said contacts and to subsequently reset said relays.

2,649,522
**FUSED ELECTRIC CONNECTOR**
Max J. Marcus, New York, N. Y.
Application January 14, 1952, Serial No. 266,277
15 Claims. (Cl. 200—115.5)



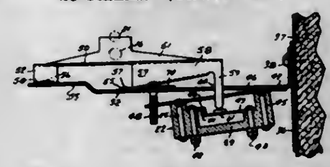
1. A fused electric receptacle comprising a hollow body having end walls, an integral rib extended between said end walls dividing off spaced channels for mounting cartridge fuses, a pair of clips within each of said channels at the ends thereof, and engaged with said fuses, there being openings in one of said end walls aligned with said channels through which fuses can be pushed into said channels into electrical contact with said clips, said rib having recesses extended laterally inward from said clips, and conductor members extended from said clips into said recesses, said hollow body having opposed halves of semi-elliptical shape so that said body is elliptical in transverse cross-section, and finger grip portions formed on the outer faces of said halves.

2,649,523
**THERMOSTAT**
Harry A. Mulvany and Richard B. Mulvany, Berkeley, Calif.
Application February 26, 1951, Serial No. 212,764
11 Claims. (Cl. 200—137)



1. In a thermostat for controlling and maintaining a substantially constant room temperature, a wall plate adapted to form a cover for an electric outlet box, said wall plate being made of a material having a high coefficient of expansion and presenting an area so large as to be exceptionally sensitive and responsive to temperature variations, a pair of spaced apart flexible members extending lengthwise of the wall plate and anchored at their opposite ends thereto said members being bowed in opposition to each other and being made of a material having a low coefficient of expansion, an electric circuit making and breaking mechanism, and means actuated by the wall plate and the bowed members for operating the electric circuit making and breaking mechanism.

2,649,524
**THERMALLY RESPONSIVE OVEN BURNER CONTROL UNIT**
Richard L. Perl, Galion, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a corporation of Ohio
Application May 23, 1951, Serial No. 227,836
23 Claims. (Cl. 200—137)



8. A thermally responsive control unit for a gaseous fuel oven burner comprising a base adapted to be mounted in a cooking range oven subject to the ambient temperature therein, a

downwardly inclined resilient plate having the upper end thereof rigidly secured to the under side of said base, an electric switch having an open and a closed position carried by said plate, a thermostatic element having two spaced downwardly extending legs the lower ends of which are rigidly secured to the upper side of said base, interengagable means between said switch and said thermostatic element, said thermostatic element when heated by a pilot burner flame impinging thereon flexing sufficiently to shift said switch through said interengageable means from one position to the other, a screw rotatably mounted in an aperture in said base and extending downwardly through a threaded aperture in said plate and having a head on the upper end thereof, said screw being operative to raise and lower the free end of said plate to adjust the position of said switch relative to said thermostatic element, said base being distortable by the ambient temperature in said oven in a direction to counteract the flexing action of said thermostatic element, and thermally responsive means incorporated in said control unit and operative to counteract the distorting movement of said base.

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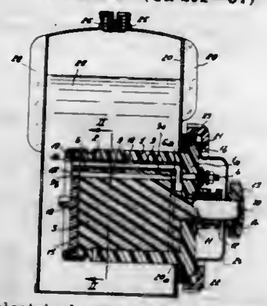
**2,649,525**
**CONTACT**
**Cecil L. Harvey, Ridgeway, Pa., assignor to Gibson Electric Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 16, 1951, Serial No. 226,693**
**5 Claims. (Cl. 200—166)**



1. A strip of silver impregnated electrical contacts; adjacent contacts being connected by silver fillets.

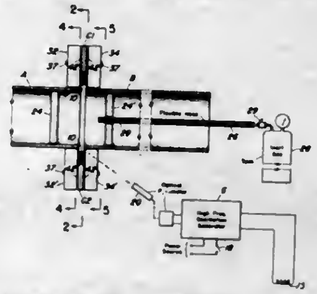
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**2,649,526**
**LIQUID RESISTANCE ELECTRICAL APPARATUS**
**Norbert R. Benchemoul, Paris, France**
**Application August 5, 1952, Serial No. 302,789**
**In France August 7, 1951**
**12 Claims. (Cl. 201—57)**



1. An electrical apparatus comprising at least one small volume compartment, a larger volume receptacle adapted to contain an electrically conducting liquid, connecting means between said compartment and said receptacle including at least two passages located at different levels and adapted to offer resistance to the flow of the liquid, and at least one pair of opposed electrodes in said compartment, so located as to make contact with liquid in such compartment.

**2,649,527**
**BUTT WELDING TUBE ENDS BY INDUCTION HEATING**
**Edward Corbin Chapman and Roy E. Lorentz, Jr., Chattanooga, Tenn., assignors to Combustion Engineering, Inc., a corporation of Delaware**
**Application January 18, 1951, Serial No. 206,554**
**7 Claims. (Cl. 219—4)**



1. In apparatus for butt welding the ends of metal tubes, the combination of means for holding said tube ends in aligned relation with an initial axial separating gap therebetween; an induction-heating conductor of relatively narrow axial width encircling the extreme edge portions of said aligned tube ends and adapted to create when energized a narrow field of high frequency alternating magnetic flux that imparts inductive heating to substantially only said edge portions; plug-like baffles inserted into the tube interior to block substantial escape of gas therethrough, one of said baffles being provided with an opening; a conduit communicating with said baffle opening and extending therefrom interiorly through the aforesaid metal tube which carries the baffle to and out of the remote end of that tube; a source of non-oxidizing gas external to said remote tube end; means connecting said conduit with said source whereby there is supplied through the conduit and said baffle opening a non-oxidizing gas which fills into the tube-end space between said baffles and flows radially out past the tube end edges through the aforesaid axial separating gap initially therebetween, said outflowing gas serving to bathe the tube end metal in a way preventing air contamination thereof while that metal is being heated to welding temperature by the aforesaid alternating magnetic flux from said induction-heating conductor; and means for pressing said thus heated tube-end edges together to effect contact and welding thereof.

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**2,649,528**
**WELDING ENDS OF COPPER COILS**
**Edward H. Koenig, New Haven, and John Chesnavich, Seymour, Conn., assignors to The New Haven Copper Company, Seymour, Conn., a corporation of Connecticut**
**Application September 27, 1950, Serial No. 186,967**

1. The method of welding the ends of electrolytic copper sheets which comprises disposing the edges in juxtaposition over a groove in a carbon bar, placing end pieces at the ends of the crevice formed by the juxtaposed edges, holding the sheets in proper relationship, placing a copper filler wire on top of the juxtaposed edges over said crevice, disposing a tungsten electrode over the filler wire, applying a direct current welding voltage across the gap between the tungsten electrode and the filler wire, with the positive pole applied to the tungsten electrode, starting the weld at one end piece, propelling the



tungsten electrode along the filler wire to form a continuous weld along the length of the crevice, and terminating the weld at the other end piece, while enveloping the arc in helium.

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**2,649,529**
**MEANS FOR AND PROCESS OF HEAT-TREATING MATERIAL TO BE WELDED TOGETHER**
**Harry B. Smith, Westfield, and George A. Dolan, East Orange, N. J.**
**Application January 5, 1951, Serial No. 204,638**
**8 Claims. (Cl. 219—10)**

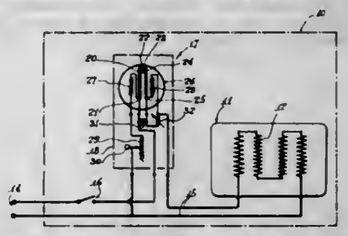


6. The process of butt-welding metallic members together which consists in applying unitary coil windings in relatively close relationship around the adjacent joint parts of said members, passing alternating current through said windings to establish strong alternating electro-magnetic fields uniformly around said parts to induce therein relatively quick preheating, then moving the coil windings quickly a distance apart to permit operating on the joint, then arc-welding the joint between the members and when the welding is completed, then quickly moving the coils to a position to properly normalize the weld with a controlled current.

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**2,649,530**
**RADIANT HEATING SYSTEM**
**John J. Dietz, New Milford, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey**
**Application September 8, 1950, Serial No. 183,380**
**2 Claims. (Cl. 219—20)**

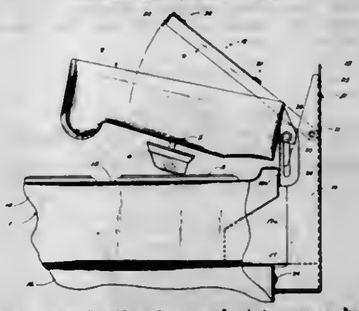
2. In an intermittently-operated heating system for a room including a source of electrical energy: the combination of an electrically-energizable radiant-type heater in said room for heating objects therein by thermal irradiation; an energizing circuit for connecting said heater to said source; a normally-closed make-break type thermal switch in said room out of proximity with said radiant heater and exposed to convection heat from said objects under irradiation by said heater, said thermal switch being responsive to said convection heat and being substantially unresponsive to thermal irradiation; means



serially connecting said thermal switch in said energizing circuit; a localized electrically-energizable heating element in close thermal association with said thermal switch; and means permanently connecting said localized heating element in cricuit with said radiant heater for energization simultaneously therewith at all times when and only when said heat source is energized whereby a localized heat supplementing said convection heat during energization of said radiant heater is produced to cause intermittent opening of said thermal switch.

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**2,649,531**
**FOLDABLE BACKGUARD FOR ELECTRIC RANGES**
**Joseph Joy Woodburn, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware**
**Application May 12, 1950, Serial No. 161,671**
**4 Claims. (Cl. 219—35)**



1. In combination in an electric range having a frame structure above which is disposed a top panel, a foldable backguard positioned above the rear edge of said top panel, a plurality of expansion hinges joined to the top panel and said backguard whereby said backguard may be moved linearly and arcuately into a folded horizontal position above the top panel, a plurality of supports having hinged upper and lower portions, said lower portions being joined at their lower ends to the frame and the top panel, said upper portions extending vertically above the surface of the top panel for a distance substantially equal to the height of said backguard, means for re-

leasably joining the upper and lower portions of said supports to render them rigid, and means for releasably securing said backguard to the upper portions of said supports when the upper portions of said supports are joined rigidly to said lower portions.

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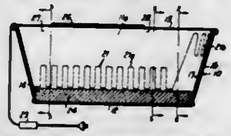
**2,649,532**
**WATER HEATER APPARATUS**
**Kenneth L. Woodman, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application February 8, 1952, Serial No. 270,540**
**4 Claims. (Cl. 219—38)**



3. In combination, a water heater comprising a tank having a tubular wall and end walls, an anode disposed in said tank, said anode being fastened at one end to said end wall, said tubular wall having an opening, an immersion heating unit passing through said opening and having a mounting plate for closing said opening, said heating unit having a tubular sheath, a heating element disposed within said sheath and electrically insulated therefrom, and an electrically insulating coating on said sheath, said coating covering that portion of said sheath disposed within said tank and serving to electrically insulate the sheath from water within the tank, whereby protective current flowing from the anode to the tank wall will not be diverted through said sheath.

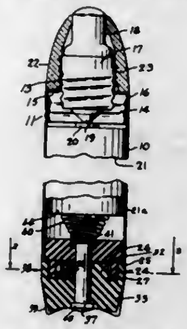
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**2,649,533**
**BASSINET LINER**
**Jesse Lynch Meredith, Jr., and Barbara B Meredith, Alameda, Calif.**
**Application March 6, 1950, Serial No. 147,928**
**2 Claims. (Cl. 219—46)**



1. A bassinet liner comprising a pair of walls of flexible blanket material having a heating element therebetween, said element being only along the lower edge of the side walls and only along the upper edge of one end of the liner, said end forming a juncture between said walls, and a cover adapted to extend from the upper edge of one side wall to the upper edge of the other side wall and providing a pair of openings of unequal size in the top of a bassinet, the larger opening being adjacent that end of the liner in which the heating element is along the upper edge.

**2,649,534**
**HAND FLASHLIGHT HAVING IMPROVED MEANS FOR MOUNTING THE LIGHT BULB**
**Arthur H. Moore, Fairfield, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut**
**Original application March 9, 1946, Serial No. 653,339. Divided and this application February 24, 1950, Serial No. 145,984**
**4 Claims. (Cl. 240—10.68**



1. A flash light comprising a tubular body adapted to enclose a battery and provided with a screw thread at one end, a bulb holder comprising a thin metal sleeve of substantially uniform thickness throughout and formed of two threated portions of different diameters connected by an intermediate annular wall, said threaded portions extending in opposite directions from said wall, the larger portion being screwed to said threaded end of the body, the threads of the smaller portion being formed on both the inner and outer sides thereof, a lamp bulb including a threaded shell contact screwed into the inner threads of said smaller portion and provided with a central contact for engaging the central contact of a battery in the body, a hollow lens enclosing the lamp bulb and provided with internal screw threads threaded onto the outer threads of said smaller portion with the inner end of said lens seated against the annular wall, and means for controlling the circuit through the bulb.

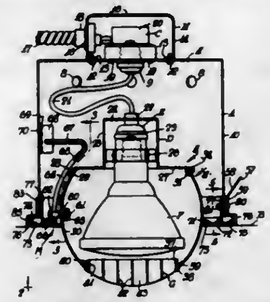
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**2,649,535**
**RECESSED LIGHTING FIXTURE WITH ADJUSTABLE SPOTLIGHT**
**Abraham H. Feder, New York, N. Y.**
**Application July 5, 1947, Serial No. 759,148**
**9 Claims. (Cl. 240—78)**

1. A lighting fixture adapted to be mounted in a ceiling comprising an external cylindrical casing, substantially completely recessed into the ceiling, said casing being provided with a lower peripheral supporting structure, a ball-shaped casing carried by said lower peripheral supporting structure and mounted for rotation in a horizontal plane thereon, said ball-shaped casing being also capable of rocking movement in a vertical plane in the external casing, the ball-shaped casing having a lower open portion, said peripheral supporting structure being substantially flush with the ceiling face, said ball-shaped casing having at the upper side thereof a mounting screw socket for a reflector bulb positioned in said mounting socket so as to direct light outwardly through said lower open portion, said peripheral



supporting structure including an inwardly directed annular ring, the inside diameter of the ring being less than the outer diameter of the ball-shaped casing, said annular ring serving as a rotating bearing for the ball-shaped casing, and cooperating stop means on the external casing and the ball-shaped casing for limiting the rotation of the ball-shaped casing in a horizontal plane, said stop means including a guide member projecting outwardly from the side of the ball-shaped casing, an upwardly extending vertically slotted and horizontally rotatable bracket, said guide member extending through the slot in the bracket, and an inwardly projecting stop element on the interior of the external casing adapted for engagement with a part of said bracket to limit the rotation thereof.



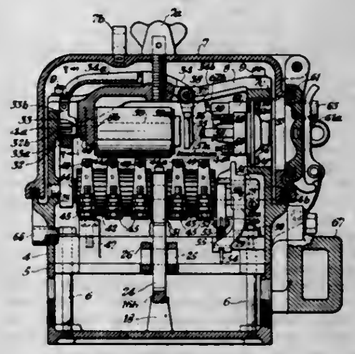
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**2,649,536**
**SWITCH AND SIGNAL CONTROL SYSTEM**
**Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.**
**Application December 12, 1947, Serial No. 791,371**
**17 Claims. (Cl. 246—134)**



1. A switch and signal control system for a track layout having switches and signals providing a plurality of routes extending between the signals comprising in combination, a miniature diagram of the track layout having distinctive multiple digit signal identifying characters disposed thereon at points comparable to the location of associated signals in the track layout, a keyboard having a set of keys for designation of entrance point characters and another set of keys for designation of exit point characters, each of said sets of keys having a plurality of manually operable keys respectively relating to the different characters of the respective digits of said distinctive multiple digit signal identification characters, route selecting means responsive to the manual actuation of said keys corresponding to the respective digits of the multiple digit characters of the respective entrance and exit points of each route for selecting the positions of the track switches required to set up the route extending between those entrance and exit points, and route establishing means responsive to said route selecting means for positioning the respective track switches for each route that is selected and for clearing the signal governing entrance to that route.

**2,649,537**
**LOCKING DEVICE FOR TRACK SWITCHES OR THE LIKE**
**Harry R. Smith, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania**
**Application April 16, 1948, Serial No. 21,443**
**8 Claims. (Cl. 246—159)**



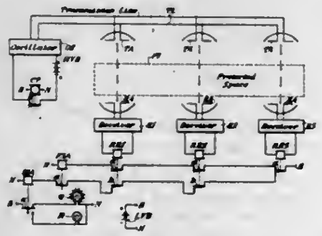
1. An electric lock for railway track switches comprising a latch movable between a range of latching and unlatching positions, biasing means for moving said latch to its extreme latching position, a movable member for moving said latch to its unlatching position against said biasing means, a locking member movable with said movable member through a range of locking and unlocking positions, a locking dog cooperating with said locking member to prevent movement of said locking member and said movable member when said members are in their respective locking and latching positions, electromagnetic means including an armature connected to said locking dog and effective when energized to move said dog out of locking engagement with said locking member to permit movement of said movable member and said locking member, an electrical circuit controller including a set of contacts; a lost motion connection between said locking member and said contacts, a toggle connection between said locking member and said contacts, said connections permitting operation of the movable member a predetermined degree before operation of said set of contacts; and means for locking said movable member in an intermediate position against the bias of said biasing means, the controller contacts being inoperative when said movable member is in its intermediate locked position.

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**2,649,538**
**SPACE INTRUSION DETECTION SYSTEM**
**Elbert W. Marlowe, Pittsburgh, and Paul M. Brannen, Duquesne, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania**
**Application October 13, 1949, Serial No. 121,282**
**1 Claim. (Cl. 250—2)**

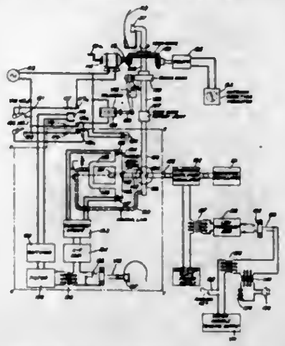
In a space intrusion detection system, in combination, a plurality of transmitting directional microwave antennas disposed along one side of an area to be protected, a plurality of receiving directional microwave antennas disposed along a side of said protected area opposite said transmitting antennas, each of said receiving antennas being disposed to receive microwave energy transmitted from a corresponding one of said

transmitting antennas, a microwave generator, a transmission line for supplying energy from said microwave generator to each of said transmitting antennas, a high voltage source of direct current energy for said microwave generator, a coding device having contacts which are recurrently operated at a predetermined rate, circuit means including a contact of said coding device for recurrently supplying impulses of energy to said microwave generator from said high voltage source, whereby pulses of microwave energy are recurrently and simultaneously radiated across said protected area from said transmitting antennas to said receiving antennas, a plurality of microwave receivers, one connected to each of said receiving antennas, a plurality of receiving relays, one associated with each of said microwave receivers, said microwave receivers and said receiving relays being constructed and arranged so that the contacts of said receiving relays are picked up when microwave energy is supplied from the associated receiving antennas to the associated microwave receivers, and the contacts of said receiving relays are released when no microwave energy is supplied from the associated receiving antennas to the associated microwave receivers, whereby the contacts of each of said receiving relays are recurrently picked up and released in synchronism with the contacts of the other receiving relays as long as said protected



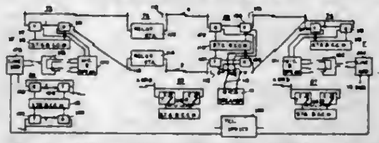
area is unoccupied, and the contacts of one or more of said receiving relays are released and remain released when a portion or all of said protected area is occupied, and means for detecting the recurrent and synchronous operation of the contacts of all of said receiving relays, comprising a first slow release code detecting relay, a low-voltage source of direct current energy, a first circuit for supplying energy to the winding of said first slow release relay from said low-voltage source, said first circuit comprising a series arrangement of the contacts of each of said receiving relays closed when all of the receiving relays are picked up, whereby energy is supplied to the winding of said first slow release relay when and only when the contacts of all of the receiving relays are picked up, a second slow release code detecting relay, a second circuit for supplying energy to the winding of said second slow release relay from said low-voltage source, said second circuit comprising a series arrangement of contacts of each of said receiving relays closed when all of the receiving relays are released, and a contact of said first slow release code detecting relay closed when said first code detecting relay is picked up, said first and said second slow release code detecting relays being constructed and arranged so that the relays will retain their contacts picked up during the short intervals in which no energy is supplied to their windings; and an indicating circuit controlled by the contacts of said second slow release relay.

**2,649,539**
**MICROWAVE CARRIER TELEPHONE SYSTEM**
**Sloan D. Robertson, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application February 21, 1948, Serial No. 10,023**
**17 Claims. (Cl. 250—6)**



1. A radiant energy system comprising in combination a main station, a plurality of satellite stations, means at said main station for generating a frequency modulated carrier wave, means in energy transfer relation with said generating means for radiating said carrier wave in a directional beam, driving means coupled to said radiating means for causing said beam to repeatedly scan an area which includes said satellite stations, means connected to said driving means for controlling said driving means to fix the orientation of said beam in the direction of a selected satellite station, and means at said selected satellite station and at said central station for utilizing said frequency modulated carrier beam for the two-way transmission of intelligence, said means including an energy reflecting and absorbing circuit tuned to frequencies within the frequency band of said carrier wave and responsive to impressed modulating signals to vary the reflection of carrier wave energy therefrom.

**2,649,540**
**MULTIPLEX RADIOPHONE COMMUNICATION SYSTEM**
**John H. Homrighous, Oak Park, Ill.**
**Application July 8, 1946, Serial No. 681,857**
**17 Claims. (Cl. 250—6)**

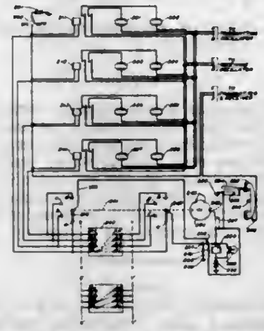


1. In a radio communication system, a radio relay station, a main radio station, means at said main station to produce a first carrier wave, means at said main station to select recurring periods of time for the transmission of said carrier wave, said carrier wave transmitted during each selected recurring period modulated with signals for a different message, means at said relay station to produce a second carrier wave, and means at said relay station including an amplifier and a rectifier responsive to said first carrier wave received thereat to cause said second carrier wave



to be transmitted periodically during the said selected recurring periods, said second carrier wave and said first carrier wave transmitted during the same recurring periods modulated with signals for the same message.

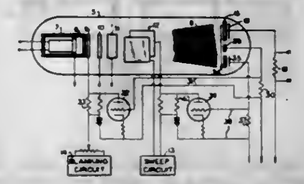
**2,649,541**
**RADIANT ENERGY SIGNALING STATION**
**Marcellus B. McDavitt, Hartsdale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application February 28, 1951, Serial No. 213,239**
**7 Claims. (Cl. 250—13)**



5. A radiant energy signaling station for signaling over any one of a plurality of allotted radiant energy signaling channels, said station comprising in combination signaling equipment, channel-selecting means for selectively tuning said equipment for operation with any one of said channels, said channel-selecting means including a selector switch having a plurality of channel-selecting positions, said selector switch being manually movable to any one of its channel-selecting positions for effecting the changing of the tuning of said equipment from one of said channels to another of said channels, said switch remaining in the channel-selecting position to which it has been moved until it is manually removed therefrom to another channel-selecting position, a telephone instrument coupled to said signaling equipment, a holder for removably holding said telephone instrument during idle periods of said equipment, said instrument being manually removed from said holder when said equipment is to be used for communication purposes, control means for superseding said selector switch and for effecting the tuning of said equipment for operation with only an assigned one of said channels, and auxiliary control means actuated by the holding of said telephone instrument by said holder for enabling said control means and for disabling said selector switch, said auxiliary control means being alternatively actuated by the removal of said telephone instrument from said holder for disabling said control means and for enabling said selector switch.

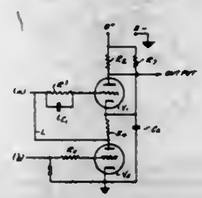
**2,649,542**
**FUNCTION GENERATOR**
**Paul Glass, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois**
**Application February 11, 1949, Serial No. 75,769**
**7 Claims. (Cl. 250—27)**

1. A cathode ray tube function generator comprising: a cathode ray tube having means for producing and directing a thin plane cathode ray, a ray density control circuit, a sweep-producing deflecting system arranged to sweep such ray repeatedly in a direction extending perpendicular to its plane, means for receiving energy of a portion of the ray of predetermined maximum width and for translating energy so received into an electrical output of magnitude proportional to magnitude of energy so received, and means for varying during sweep the width of the portion of the ray from which energy is so received; a ray density stabilizing arrangement comprising second means arranged for



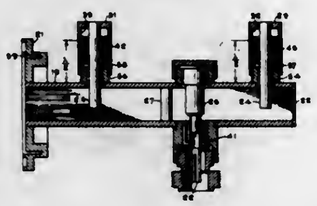
receiving energy from a second portion of the ray of constant width during sweep, and a negative feedback circuit having an input arranged to be controlled by the energy received by said second receiving means and an output arranged to stabilize said ray density control circuit; and a sweep stabilizing arrangement comprising third means aranged for receiving energy from a third portion of the ray of linearly increasing width during the sweep, and a second negative feedback circuit having an input arranged to be controlled by the energy received by said third receiving means and an output arranged to stabilize said deflecting system.

**2,649,543**
**PULSE SELECTION**
**Robert Trachtenberg, Camden, N. J., assignor to the United States of America as represented by the Secretary of the Air Force**
**Application September 28, 1951, Serial No. 248,846**
**3 Claims. (Cl. 250—27)**



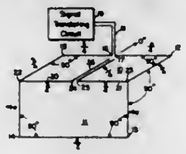
1. A pulse selection circuit for selection of a desired pulse from a series of such pulses with the aid of gating pulses, comprising a first vacuum tube having a cathode, control grid and anode; a second vacuum tube having a cathode, control grid and anode, a first resistor connected between the cathode of said first vacuum tube and the plate of said second vacuum tube, a second resistor connected between the anode and cathode of said first vacuum tube, means for applying said series of pulses to the control grid of said first vacuum tube, means for applying said gating pulses to the control grid of said second vacuum tube, an output circuit associated with said first vacuum tube for deriving a selected output pulse during the coincidence of said series of pulses and said gating pulses.

**2,649,544**
**MICROWAVE DETECTOR**
**John F. Zaleski, Queens Village, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York**
**Application April 19, 1949, Serial No. 88,269**
**9 Claims. (Cl. 250—31)**



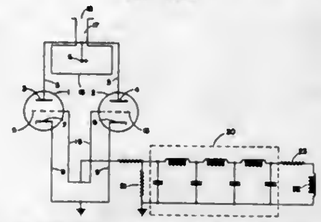
1. A microwave detector comprising, a wave guide section having an open end and a closed end, a crystal rectifier in said wave guide section intermediate said open and closed ends, a first adjustable capacitive reactance means for tuning positioned intermediate said crystal rectifier and said closed end, a second adjustable capacitive reactance means for tuning positioned intermediate said crystal rectifier and said open end and a short-circuiting rod rigidly and conductively fatened to opposite walls of said wave guide section and positioned with its axis more closely adjacent one of the side walls of said wave guide section than the other.

**2,649,545**
**LOOP ANTENNA**
**Joseph C. Spindler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois**
**Application February 28, 1951, Serial No. 213,082**
**9 Claims. (Cl. 250—33.67)**



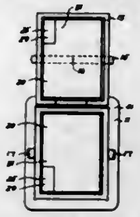
1. A loop antenna operable over a high and a low band of frequencies spaced from one another in the frequency spectrum comprising: a first radiating conductor defining a loop having an effective electrical length substantially equal to two wavelengths at the center frequency of said high band and bent to provide two loop sections in angularly disposed, intersecting planes for operation in said high band, said conductor presenting terminal ends for connection to a feeder; a second radiating conductor connecting opposed portions of said first conductor and extending along the intersection of said planes to define with said first conductor another loop including said terminal ends for operation in said low band; and a stub line connected to said second conductor and of such electrical length as to constitute therewith at operating frequencies within said high band a high impedance compared with the portion of said first conductor shunted thereby.

**2,649,546**
**SELF-PULSING OSCILLATOR**
**Arthur A. Varela, Washington, D. C.**
**Application October 10, 1945, Serial No. 621,634**
**5 Claims. (Cl. 250—36)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



5. In a vacuum tube oscillator supplying recurrent discrete wave trains, series capacity means connected to the tube and receiving current therefrom only during wave train generation, and inductance means connected across the capacity means, said inductance-capacity circuit having a natural frequency harmonically related to the wave train recurrence frequency.

**2,649,547**
**RADIOGRAPH MARKING APPARATUS**
**Gordon L. Lott, Vancouver, British Columbia, Canada**
**Application August 11, 1949, Serial No. 109,695**
**6 Claims. (Cl. 250—67)**



1. In radiograph apparatus, a cassette, two fluorescent screens within the cassette between which a radiograph film may be placed, a block impervious to actinic rays formed in each screen, said blocks being in line with each other, and identifying indicia on the outside of the cassette formed of material opaque to X-rays, said indicia being located over the impervious blocks of the screens.

**2,649,548**
**RADIOGRAPHIC CLINOMETER**
**Irving Melbourne Greenberg, New York, N. Y.**
**Application November 20, 1951, Serial No. 257,342**
**7 Claims. (Cl. 250—67)**



1. In a clinometer for the radiographic recording of the indication of the magnitude of an angle upon a plane photographic medium; radio-opaque indicia; a radio-opaque index, the indicia and the index being movable with respect to each other to produce a radiographic shadow from which the angle may be determined; and radio-transparent supporting means for the indicia and the index, the supporting means maintaining at least the particular portion of the indicia from which the angle is to be read in a plane substantially parallel to the plane of the photographic medium, the last-named portion of the indicia being disposed in close proximity to the index.

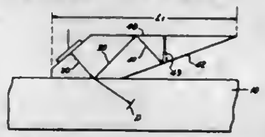


**2,649,549**
**BEAM THERAPY UNIT**
**Donald Thomas Green, Ottawa, Ontario, Canada, assignor to Eldorado Mining and Refining (1944) Limited, Ottawa, Ontario, Canada, a corporation of Canada**
**Application March 8, 1951, Serial No. 214,488**
**9 Claims. (Cl. 250—106)**



8. In a beam therapy unit including a continuing source of radiation and a container having a low transmissibility to radiation enclosing said source and having an outlet port for the emission of a beam, apparatus for controlling the beam comprising gravity operated means for supplying a liquid material of low transmissibility to radiation to close off said outlet port, means for removing said liquid material from the outlet port to open said outlet port comprising displacement of said liquid material from the outlet port to a higher level than said outlet port by compressed gas, means comprising said compressed gas for maintaining said liquid material exteriorly of said outlet port, means for releasing the compressed gas from the outlet port to allow the liquid material to pass into the outlet port to close off the beam and means having a high transmissibility to radiation to prevent said liquid material from escaping through the open end of said outlet port.

**2,649,550**
**REFLECTION ABSORBING ULTRASONIC WEDGE**
**Fred H. Hardie, Danbury, Robert C. Goodman, Bridgeport, and Howard E. Van Valkenburg, Danbury, Conn., assignors to Sperry Products, Inc., Danbury, Conn., a corporation of New York**
**Application October 26, 1950, Serial No. 192,262**
**8 Claims. (Cl. 310—8.2)**



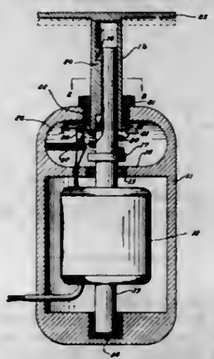
1. In an ultrasonic inspection device in which ultrasonic pulses are transmitted into an object and reflections of the pulse are received from reflecting surfaces within the object, comprising a piezo-electric crystal, a wedge having one surface in engagement with a surface of the object, the crystal engaging another surface of the wedge at an angle to the first surface, some of the pulse energy generated by the crystal being reflected within the wedge from the interface between wedge and object, said wedge having a third surface adapted to intercept the internally reflected pulse energy at an angle to direct the reflection away from the crystal.

**2,649,551**
**OSCILLATORY MOTOR**
**Joseph S. Yarrow, Litchfield County, Conn.**
**Application February 14, 1950, Serial No. 144,155**
**3 Claims. (Cl. 310—32)**



1. In an oscillatory motor, an armature mounted for oscillation about a substantially fixed axis and having a projection extending parallel to said axis constrained to move in a cylindrical arc about said axis; an electromagnet fixed with respect to said axis; and a contact spring leaf having one end fixed with respect to the magnet and axis and the other end portion free for resilient movement, the leaf projecting parallel to the axis into the path of said projection and, in normal position, having one longitudinal edge of the free end portion slightly outer of said arc and the other edge slightly inner of the arc, and a resilient element vibratory about an axis close to the first mentioned axis and loosely connected to said armature to transmit motion of the armature to the said element, and motion of the element to the armature.

**2,649,552**
**PRESSURE-STARTING MOTOR CONTROL DEVICE**
**Kenneth D. Burrell and Richard C. Latson, Zephyrhills, Fla.**
**Application July 11, 1950, Serial No. 173,026**
**1 Claim. (Cl. 310—68)**

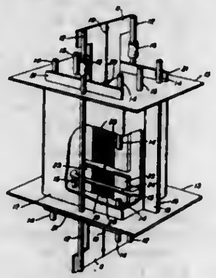


An electrical tool of the character described comprising a housing, an electric motor mounted inside said housing, a tool member, a sleeve element carried by said tool member and being slidably and non-rotatably engaged on the motor shaft and extending outside the housing, spring means biasing said tool member outwardly relative to the housing, a stationary switch contact

mounted in said housing and extending substantially parallel to said shaft, a flexible switch contact mounted in said housing inwardly adjacent to said stationary contact and being bendable into engagement with said stationary switch contact, said flexible switch contact being normally parallel to and disengaged from said stationary switch contact, an annular flange on said sleeve element having a radius greater than the distance of said flexible contact from the axis of the shaft and having a rounded outer rim which is normally spaced axially outwardly from said flexible contact and is engageable with said flexible switch contact to move the flexible contact radially outwardly into engagement with the stationary contact responsive to inward axial movement of the tool member relative to the housing, and a normally open energizing circuit connected to said motor and including said contacts in series therewith and being arranged to be closed responsive to the closure of said contacts.

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**2,649,553**
**FILAMENTARY CATHODE SUPPORT STRUCTURE**
**Luther E. Cisne, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application September 2, 1950, Serial No. 183,005**
**14 Claims. (Cl. 313—37)**

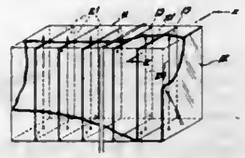


1. In an electron discharge device, a springless tensioned electrode comprising a strand of fine diameter wire under an initial tension, means rigidly securing each end of said wire under said tension at a single point, and heat sink means in heat transfer relatinship with at least one end of said wire between said one end and the remainder of said wire, said heat sink means being adjacent said wire for a substantial length thereof to maintain said length at its initial temperature, whereby said wire is maintained taut during the operation of said device, said wire being free to move axially adjacent said heat sink means to tension said wire.

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**2,649,554**
**RADIATION INDICATOR**
**Nicholas Anton, Brooklyn, N. Y.**
**Application July 29, 1949, Serial No. 107,475**
**4 Claims. (Cl. 313—93)**

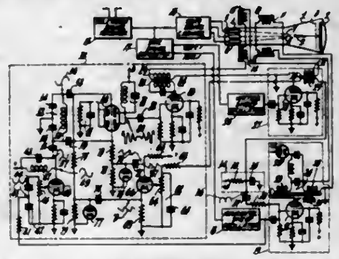
1. Apparatus for detecting the energy spectrum of beta radiation in terms of amount of beta radiation in each of a plurality of predetermined energy incremental intervals, comprising a casing having beta-radiation-impermeable walls except for a beta-radiation-permeable wall portion, a plurality of electrically conductive partitions within said casing each directly electrically connected to the conductive walls of said casing to form separate chambers within said casing, and arranged substantially parallel to said beta-permeable wall portion, whereby beta radiation passing through said permeable wall portion may also pass through certain of said partitions in dependence upon the energy level of said entering radiation, each of said partitions being per-



meable to beta radiation but absorptive of a predetermined increment of such radiation respectively correlated to incremental energy levels to be detected, an anode within each of the chambers formed by said partitions and casing walls, and a gas ionizable by beta radiation contained within each of said chambers.

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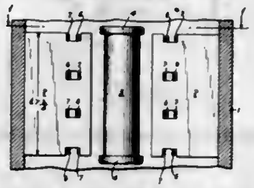
**2,649,555**
**TELEVISION RASTER SHAPE CONTROL SYSTEM**
**Robert K. Lockhart, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware**
**Application September 4, 1951, Serial No. 244,877**
**11 Claims. (Cl. 315—24)**



1. A system for energizing deflection apparatus of a cathode ray tube to deflect an electron beam suitably to scan a roster of predetermined shape at a target electrode of said tube comprising, horizontal and vertical sawtooth deflection wave generators coupled respectively to horizontal and vertical beam-deflecting field-producing components of said deflection apparatus, means including a wave-shaping network coupling the output of said vertical deflection wave generator and the input of said horizontal deflection wave generator to modulate said horizontal sawtooth wave energy as a function of said vertical deflection frequency, correcting wave-developing apparatus having two input circuits and an output circuit, means coupling said input circuits respectively to said horizontal and vertical deflection wave generators, said correcting wave-developing apparatus operating to develop in said output circuit a correcting wave at horizontal deflection frequency varying in amplitude at vertical deflection frequency from a maximum to a minimum in a first interval and from a minimum to a maximum in a succeeding second interval, said correcting wave having opposite phases in said two intervals, and means coupling said output circuit to said vertical beam-deflecting field-producing component.



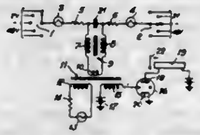
**2,649,556**
**MAGNETRON STRAPPING ARRANGEMENT**
**Charles V. Litton, Redwood City, Calif.**
**Application May 13, 1950, Serial No. 161,880**
**11 Claims. (Cl. 315—40)**



1. An electrode structure for a multiple resonator magnetron having electrode sections connected to an enclosing wall structure to define a plurality of cavity resonators, said electrode sections being more than a quarter wave length long between the end surfaces thereof at the operating frequency, a first plurality of conductor means, spaced from each other along the length of said sections a distance less than a sixth of a wave length at said operating frequency, interconnecting only the odd numbered electrode sections, and a second plurality of conductor means spaced from each other similarly to said first plurality of conductor means interconnecting only the even numbered electrode sections.

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**2,649,557**
**ELECTRIC POTENTIAL COMPARING CIRCUIT**
**David H. Ransom, Pines Lake, South Paterson, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application January 28, 1950, Serial No. 141,051**
**11 Claims. (Cl. 315—355)**

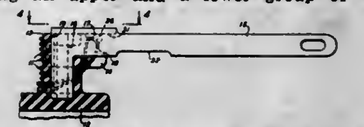


2. A circuit arrangement for comparing direct current potentials comprising a first variable source of direct current reference potential, means for setting said first source at a certain value of potential, a second source of direct current potential to be compared with said reference potential, said sources having a common return connection, a saturable core reactor having first, second and third windings, electrical connections from said first and second potential sources to the respective ends of said first winding, a source of alternating current connected to said second winding and a detecting device connected to said third winding.

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**2,649,558**
**MOUNTING HEAD FOR COIL TERMINALS**
**Erwin E. Franz, Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**
**Application June 9, 1949, Serial No. 97,973**
**3 Claims. (Cl. 317—220)**

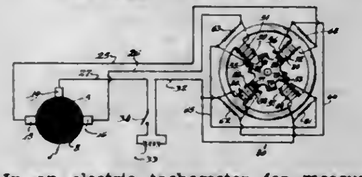
1. A head member for use with a longitudinal core on which a coil of wire is to be wound, the member having a shape which conforms to the cross section of the core and being adapted to be mounted at one end thereof, said head member containing terminal members for attaching leads from the coil at an intermediate level, a plurality of slots generally perpendicular to the outer periphery of the head member to allow passage of the leads from the coil to the terminal members, at least one of the side surfaces defining each slot having an upper and a lower group of "V"



shaped serrations, each serration having one surface generally parallel to the said outer periphery, the parallel surfaces of the upper group facing the outer periphery and those of the lower group facing in the opposite direction, thereby enabling the leads to maintain the level at which they leave the coil by being supported in serrations at substantially that level and to be brought to the terminal members at the intermediate level.

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**2,649,559**
**ELECTRIC TACHOMETER**
**Peter Wargo, Maywood, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia**
**Application December 1, 1949, Serial No. 130,566**
**15 Claims. (Cl. 318—27)**



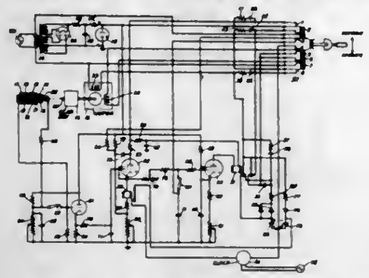
1 In an electric tachometer for measuring the speed of a moving part, the combination of a switch having an operating member adapted to be connected with the part, a source of electric power, four field poles remotely located from the part, an individual field coil for each field pole, a pole extension forming a part and extending one side of each field pole, a plurality of conductors connecting the field coils into two groups, two circuits connecting the groups with the switch and the source, the switch being so constructed that when operated by the part it sequentially connects the groups with the source for intervals of energization in such fashion that successive intervals overlap, and a magnetically permeable armature mounted for rotation adjacent the field poles and having six armature poles, whereby the armature is rotated at a speed proportional to the speed of the moving part.

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**2,649,580**
**MOTOR SYSTEM FOR CONTROLLING PRESSURE**
**Royer R. Blair, Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application May 17, 1951, Serial No. 226,895**
**5 Claims. (Cl. 318—212)**

1. In combination, a semiconductor element, a conductive element, driving means for bringing said elements into contact and for increasing the contact pressure, means responsive to the making of said contact for setting up a voltage the mag-

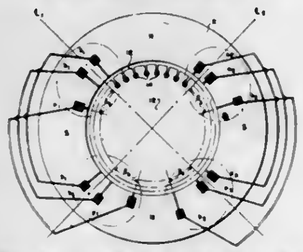
nitude of which increases to a predetermined magnitude over a predetermined time period starting at the time of making said contact, and



means responsive to said voltage of predetermined magnitude for stopping said driving means when said elements have been in contact for said predetermined period.

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**2,649,561**
**ELECTRIC MOTOR**
**Charles C. Hutchins, Ridgway, Pa., assignor to Hutchins Electric Company, Inc., Ridgway, Pa., a corporation of Pennsylvania**
**Application December 2, 1948, Serial No. 63,116**
**8 Claims. (Cl. 318—220)**

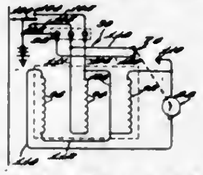


1. A self-starting single phase alternating current electric motor inciuding a plurality of pairs of poles, a main running winding distributed over each of said pairs of poles and distributed over only a portion of each of the poles of at least one of said pairs of poles, and a starting winding having high leakage reactance with respect to said running winding, said starting winding being distributed over the portions of the poles not covered by said main running winding, said starting winding being in series connection and in mutually inductive relation with the portion of the running winding distributed over the same polar areas therewith, and being in parallel connection with a portion of the running winding distributed over other of said pairs of poles.

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**2,649,562**
**CONTROL SYSTEM FOR WINDSHIELD WIPERS**
**Louis Zaiger, Swampscott, and Robert I. Lappin, Marblehead, Mass.**
**Application November 1, 1950, Serial No. 193,374**
**3 Claims. (Cl. 318—466)**

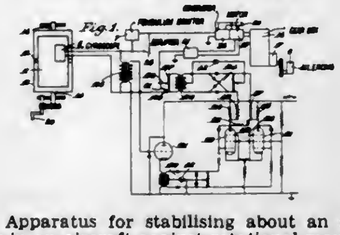
1. In a windshield wiper, an electric motor, a mechanism including a constantly rotating shaft for effecting oscillation of the wipers, a circuit including switches operatble to initiate and stop oscillation of the wiper blades at one extremity of their oscillation, and means manipulatably operable to condition the circuit prior to installa-



tion alternatively for a right or left-hand installation.

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**2,649,563**
**STABILIZING APPARATUS IN AIRCRAFT**
**Frederick William Meredith, London, England, assignor to S. Smith & Sons (England) Limited, London, England, a British company**
**Application June 1, 1948, Serial No. 30,262**
**In Great Britain May 15, 1947**
**11 Claims. (Cl. 318—489)**



9. Apparatus for stabilising about an axis a body in an aircraft against rotational movement about said axis comprising a rate of turn device situated on the body and generating an electric signal in accordance with the rate of turn about said axis, means for integrating said signal to produce a first electric monitoring signal, a gravity responsive device generating a second electric monitoring signal in accordance with the deviation of the body about said axis from a predetermined attitude in space and means for controlling the body about said axis in accordance with the said rate of turn signal and one of said first electric monitoring signal and said second electric monitoring signal according as to whether said gravity responsive device is or is not affected by accelerations other than gravity and means for connecting said controlling means with one of said integrating means and said gravity responsive means.

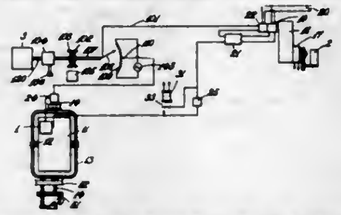
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**2,649,564**
**AUTOMATIC CONTROL SYSTEM**
**Frederick William Meredith, London, England, assignor to S. Smith & Sons (England) Limited, London, England, a British company**
**Application August 9, 1948, Serial No. 43,336**
**In Great Britain August 5, 1947**
**16 Claims. (Cl. 318—489)**

1. An automatic control system for maintaining a condition at a predetermined value comprising a detector giving a mechanical indication of the deviation of the condition from the predetermined value, a signal generator mechanically coupled to said detector through a clutch and giving a signal in accordance with said deviation, a servo system controlling the condition and controlled by said signal, means for effecting engagement and disengagement of the clutch, means for ensuring that the signal from the generator does not vary upon disengagement of



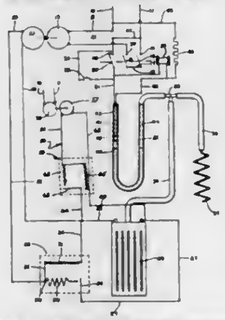
said clutch and during such time as the clutch is disengaged and means for causing relative movement of the engaging members of said clutch when disengaged, whereby, if any zero error exists in the system so that the condition



is stabilised at a value other than the predetermined value, the generator may be declutched from the detector and reclutched with the condition at the predetermined value and the generator emitting a signal compensating for said zero error.

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**2,649,565**
**BATTERY CHARGING CONTROL RESPONSIVE TO GAS PRESSURE**
**Donald G. Ihrig, Evanston, Ill.**
**Application January 11, 1947, Serial No. 721,541**
**6 Claims. (Cl. 320—31)**

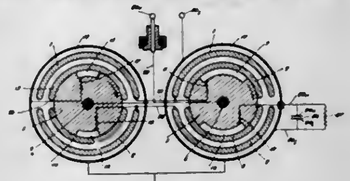


2. A battery charging system including a battery, a charging circuit including means for supplying charging voltage to said battery, circuit interrupting means in said circuit, a T connection in communication with said battery, an elongated vent tube of restricted size connected to said T connection for conducting gases formed within the battery to the atmosphere and frictionally resisting gas flow therethrough, a pressure sensitive device for measuring variations in pressure in said vent connected to said T connection, and means actuated by said pressure sensitive means for controlling said voltage supplying means.

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**2,649,566**
**POLARITY REVERSAL DEVICE FOR ELECTROSTATIC MACHINES**
**Roger Morel, Grenoble, France, assignor to Societe Anonyme des Machines Electrostatiques, Grenoble, France, and Centre National de la Recherche Scientifique, Paris, France, each a corporation of France**
**Application January 31, 1951, Serial No. 208,790**
**In France February 7, 1950**
**19 Claims. (Cl. 322—2)**

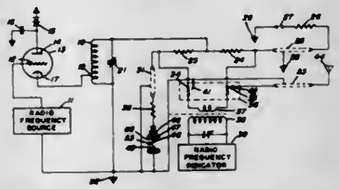
1. Electrostatic apparatus comprising an electrostatic generator having a conductive inductor member and a conductive conveyor member, said members being supported for movement one relative to the other into and out of inductive relation to each other, a terminal of said electrostatic generator, means cooperating with said members and connected to said terminal for conducting to said terminal an electrostatic charge induced upon said conveyor member by said inductor member in said relative movement of said conductive members, an exciter adapted to produce an exciting electrostatic charge and connected to said inductor member to deliver said exciting electrostatic charge thereto initially to determine a given polarity of the charge delivered to said terminal, a condenser having a capacity which is greater than the maximum capacity which may



exist between said inductor member and said conveyor member of said electrostatic generator, and means effective concomitantly with said movement of said inductor and conveyor members relative to each other for connecting said condenser in a circuit of said electrostatic apparatus which without said condenser therein connects said conveyor member to a member normally of predetermined polarity and which normally carries charges in a given direction with respect to said conveyor member when said inductor is charged to determine said given polarity, whereby said condenser is effective to exchange charges with said conveyor so as to reverse the polarity of said generator relative to said predetermined polarity.

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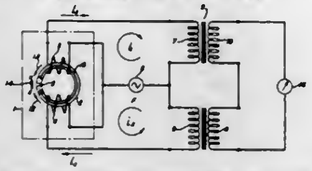
**2,649,567**
**RADIO FREQUENCY IGNITION SYSTEM ANALYZER AND INTERFERENCE LOCATOR**
**Robert A. Gaetani, Norfolk, Va., and Edwin C. Vestal, Jr., United States Navy**
**Application February 27, 1951, Serial No. 213,036**
**4 Claims. (Cl. 324—15)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. Apparatus for testing engine ignition systems, said apparatus comprising a source of radio frequency energy, a first load circuit and a spark gap under test coupled to said source for applying a portion of said energy across said spark gap, an auxiliary spark gap, a second load circuit coupled between said source and said auxiliary spark gap for simultaneously applying a portion of said energy across said auxiliary spark gap, indicating means, switch means for selectively coupling said indicating means dif-

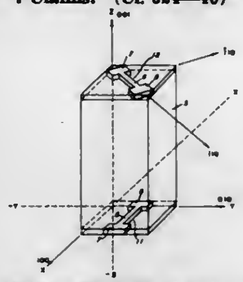
ferentially across said load circuits so that a minimum response is obtained when said gaps are equal, and a probe antenna responsive to radio frequency energy, said switch means including means for selectively coupling said indicating means to said probe antenna and disconnecting said first and second load circuits from said indicating means.

2,649,568
**MAGNETOMETER**
**Edwin P. Felch, Jr., and Francis G. Merrill, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application July 12, 1949, Serial No. 104,361**
**9 Claims. (Cl. 324—34)**



1. A magnetometer comprising in combination a core structure including a sensing gap, a single tapped winding surrounding said core, means for applying a driving frequency through said winding to saturate said core, said winding being so disposed around said core that the magnetomotive force appearing across said sensing gap and produced in said core structure by said driving frequency through one portion of said winding is of equal magnitude and opposite phase to that produced by said frequency through the other portion, and output means coupled to said winding responsive to currents induced therein by a magnetic field present in or around said sensing gap.

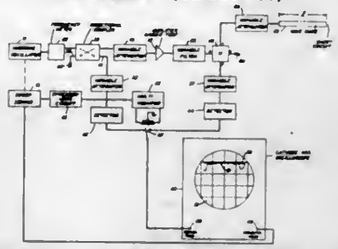
2,649,569
**SEMICONDUCTOR MAGNETORESISTIVE DEVICE**
**Gerald L. Pearson, Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application September 28, 1950, Serial No. 187,317**
**7 Claims. (Cl. 324—46)**



1. In a device comprising a magnetoresistive element insertable into a magnetice field, the combination wherein the magnetoresistive element is a single crystal body of semiconductive material and which comprises a pair of connections to said body at points spaced along a crystal axis of said body.

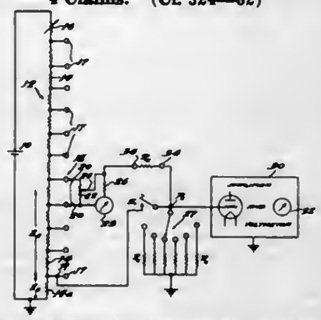
7. The method of measuring the strength of a magnetic field which comprises inserting a single crystal body of semi-conductive material in the field with a crystal axis of the body parallel to the field, passing a constant current through the body in the direction parallel to said axis, and measuring the voltage drop between two points on said body spaced along said axis.

2,649,570
**TEST EQUIPMENT AND METHOD FOR MEASURING REFLECTION COEFFICIENT**
**Frederick E. Radcliffe, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application June 29, 1950, Serial No. 171,057**
**24 Claims. (Cl. 324—57)**



1. High frequency test apparatus for measuring the energy reflected from a high frequency device when connected in circuit with a source of high frequency energy, said test apparatus comprising a source of oscillatory energy, means to periodically sweep the frequency of said energy through a range including the operating frequency range of said device, means to apply at least a portion of said energy to said device, means for varying the phase of said reflected energy relative to the phase of the non-reflected energy as the said frequency of said energy is swept comprising an electrically long section of transmission line connected to said device and terminated at its end remote from said device in a known impedance mismatch whereby energy applied to said transmission line is reflected therefrom back to said device, means connected to the output of said device to combine the non-reflected energy with the reflected energy, and means to detect the wave form of the combined energy.

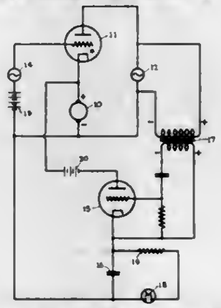
2,649,571
**BRIDGE FOR RESISTANCE MEASUREMENT**
**Robert J. Smith, Elmhurst, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission**
**Application April 18, 1947, Serial No. 742,251**
**4 Claims. (Cl. 324—62)**



1. A bridge for the measurement of resistances comprising, in combination, a fixed standard source of voltage, a second source of voltage variable in value from zero to a value at least ten times the value of said standard source, said second source of voltage being connected in series with said standard source, a plurality of standard resistances having ohmic values corresponding approximately to integral powers of ten, switching means for selectively connecting one of said standard resistances in series with the voltage sources and with a resistance under measurement, shorting switch means for connecting and disconnecting the junction point between the standard resistance and the resistance under measurement with the junction point between said voltage sources, and means for measuring the voltage across the standard resistance.



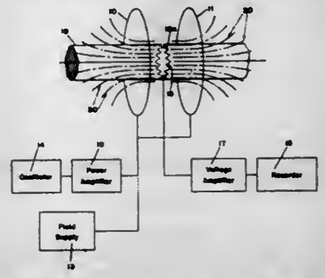
2,649,572
**COUNTERELECTROMOTIVE FORCE DERIVATION CIRCUIT**
**Oscar E. Carlson, Paterson, N. J.**
**Application April 10, 1953, Serial No. 348,081**
**10 Claims. (Cl. 324—70)**



1. In combination with a running speed motor control system, of the type in which a direct current motor is connected to an alternating current source through a half wave rectifier, a circuit arrangement for deriving a voltage directly proportional to the back E. M. F. of the motor comprising: an electronic valve having an anode, cathode and grid; means connecting the anode and cathode of said valve to opposite sides of the armature of said motor, the anode being connected to the positive side of the armature; a smoothing filter circuit connected in series between said valve and said armature; means connected in the grid circuit of said valve for biasing said valve to cut off during periods when current is being supplied to the armature of said motor from said alternating current source and for initiating current conduction in said valve during that portion of the cycle of the alternating current source when current is not being supplied to said motor; and means for connecting said system and circuit arrangement to a source of alternating current; whereby a voltage is maintained across said smoothing filter circuit which is directly proportional to the back E. M. F. of said motor.

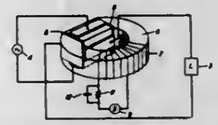
2,649,573
**AREA MEASURING DEVICE**
**Harold D. Goldberg and Milton I. Goldberg, Bronx, N. Y.**
**Application December 21, 1948, Serial No. 66,523**
**18 Claims. (Cl. 324—71)**

1. In a device of the class described for performing a cross-sectional area measurement on a member, a pick-up conductor, magnetic field means comprising at least one field coil, an oscillating current source electrically connected to said field means, said field means being positioned in the region of said conductor and proportioned for producing a substantially uniform alternating magnetic field in intercepting relation to said conductor, whereby a voltage will be



induced in said conductor, and voltage-responsive means electrically connected to the pick-up conductor, the said conductor being adjustable for enabling it to operatively conform substantially to the configuration of said member being measured.

2,649,574
**HALL-EFFECT WAVE TRANSLATING DEVICE**
**Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application April 5, 1951, Serial No. 219,342**
**15 Claims. (Cl. 332—51)**



1. In combination, a Hall-effect unit comprising a body of semiconductive material provided with two sets of electrodes, input circuit means to supply unmodulated carrier waves of a frequency of at least $10^4$ cycles per second to one of said sets of electrodes, output circuit means to receive said waves from the other of said sets of electrodes, and control circuit means to produce in said body a magnetic flux variable in strength in conformity with variations in a control current, whereby said received waves vary in conformity with said control current.

2,649,575
**MICROWAVE HOLLOW GUIDE POWER DIVIDER**
**John F. Zaleski, Valhalla, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York**
**Application October 20, 1951, Serial No. 252,356**
**8 Claims. (Cl. 333—9)**

7. A microwave power divider comprising a rectangular hollow microwave guide input arm, a pair of rectangular hollow microwave guide output arms meeting said input arm in an H-plane junction, the broad face on the same side of each of said input and output arms being in a common plane, matching means in said arms for preventing reflection from said junction into said input arm, a quarter-wave short-circuited microwave stub adjustably attached to said junction

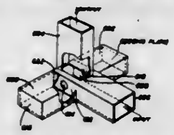
with its longitudinal axis normal to said common plane to be placed across either output arm and



forming at the operating frequency a high resonant impedance.

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**2,649,576**
**PSEUDOHYBRID MICROWAVE DEVICE**
**Willard D. Lewis, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application October 7, 1949, Serial No. 120,142**
**21 Claims. (Cl. 333—11)**



4. A microwave, electromagnetic wave, waveguide structure comprising first, second and third straight sections of high frequency, electromagnetic wave wave guide, said second and third straight sections of wave guide being perpendicular to each other and to said first straight section, said second and third straight sections of wave guide having their longitudinal axes located in a common plane and being coupled to said first section at their respective planes of juncture with said first section by irises providing relatively weak electrical couplings to said first section, the center points of said irises lying in said common plane each said iris having a coefficient of coupling less than one-tenth.

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**2,649,577**
**TRANSMISSION LINE TUNING DEVICE FOR ELECTRONIC SYSTEMS**
**David T. Armstrong, Weehawken, N. J., assignor of one-half to John W. Wolfe, Palisades Park, N. J.**
**Application April 13, 1949, Serial No. 87,147**
**1 Claim. (Cl. 333—82)**



In a tuning device of the character described, the combination of a pair of constant length electrical conductors spaced in parallel relation; said conductors being a single wire bent in half and formed as a pair of helical coils; the free ends of said wire constituting the terminals for connecting said device in a circuit and a double-lead screw of electrically conductive material and having a pitch corresponding with said coils, movable within said coils in threaded engagement therewith whereby all of the parts of all turns of said coils which are about the body of the screw are in electrical contact with said screw; said screw being positioned within said coils at their connected end, whereby said coils remain connected upon removal of the screw therefrom.

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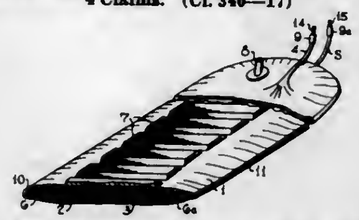
**2,649,578**
**WAVE-GUIDE ELBOW**
**Walter J. Albersheim, Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application December 2, 1949, Serial No. 130,670**
**13 Claims. (Cl. 333—98)**



1. A smoothly curved high frequency, electromagnetic wave, hollow pipe, wave-guide bend for $TE_{01}$ waves, said bend including a longitudinal ridge across the interior of the guide, said longitudinal ridge extending completely across the interior of said guide, the ends of said ridge being at right angles to the plane of the bend, said ridge twisting uniformly 180 degrees substantially throughout the entire length of the bend.

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**2,649,579**
**DETECTOR FOR SEISMIC EXPLORATION**
**Warren A. Alexander, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware**
**Application February 1, 1950, Serial No. 141,660**
**4 Claims. (Cl. 340—17)**

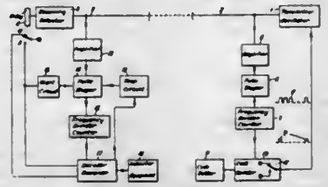


1. Improved portable seismometer of the capacitor type comprising an elongated essentially flat flexible tube, an elongate thin flat flexible conductor carried by the bottom wall of said flexible tube, a second elongate thin flat flexible conductor carried by the top wall of said flexible tube out of electrical contact with said first conductor, an elastic non-conducting non-liquid medium disposed between said conductors, and a plurality of flat mass-providing plates carried by the top wall of said flexible tube.

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**2,649,580**
**ELECTRIC SIGNALING SYSTEM**
**Roland Harris Dunn, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware**
**Application September 19, 1950, Serial No. 185,655**
**In Great Britain September 27, 1949**
**17 Claims. (Cl. 340—163)**

1. An electric signalling system comprising a communication channel, means for producing a carrier wave, means for applying the said carrier wave to the communication channel at a transmitting point thereon and means for receiving the carrier wave from the communication channel at a receiving point thereon, means at the transmitting point for modulating the said carrier wave with information signals, means at the receiving point for demodulating the said carrier wave thereby separating the said information signals from the said carrier wave, means at the receiving point for distributing individual signal elements to individual utilisation outlets,

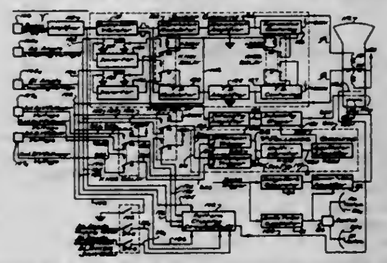


means for deriving transmitting synchronising signals at the transmitting point from the said carrier wave, means for controlling the said modulating means therewith, means at the receiving point for deriving receiving synchronising signals from the said carrier wave substantially isochronous with the said transmitting synchronising signals, means for controlling the said distributing means by the said receiving synchronising signal and means for procuring a predetermined phase relationship between the receiving synchronising signals and the transmitting synchronising signals.

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**2,649,581**
**SINGLE SCOPE TWO-COORDINATE RADAR SYSTEM**
**Homer G. Tasker, Van Nuys, Alvin L. Hiebert, Beverly Hills, Alwyn L. Kelsey, North Hollywood, and William E. Osborne, Los Angeles, Calif., assignors to Gilfillan Bros., Inc., Los Angeles, Calif., a corporation of California**
**Application September 29, 1947, Serial No. 776,702**
**32 Claims. (Cl. 343—11)**

1. In a multiple display system of the electronic type, the combination of, a cathode ray tube having two ray deflector elements for determining, in response to voltage applications thereto, the respective positions of the cathode ray in two coordinates in the plane of the tube screen, circuit means for developing a periodic series of voltage pulses, first sweep circuit means for deriving from said voltage pulses a periodic series of sweep pulses and for supplying the derived sweep pulses to one ray deflector element to move the ray periodically from a normal position in the direction of the corresponding coordinate and thereby to describe a sweep path on the screen, second sweep circuit means for supplying to the other ray deflector element voltages which are modulated in accordance with a sweep modulating voltage to displace successive sweep paths progressively in the direction of the other coordinate, scansion circuit means for de-



veloping first and second control voltages which vary periodically in a definite mutual time relationship with respective periods which are long compared to the period of said voltage pulses, switchable circuit means shiftable between two alternative conditions in which a voltage derived selectively from either one or other of the two control voltages is utilized as the sweep modulating voltage in the said second sweep circuit means, and control means for periodically shifting the switchable circuit means between its two alternative conditions in definite time relation to the periodic variations of the control voltages, the first and second control voltages varying with the same period, and the period of operation of the control means being such that one of the two last mentioned periods is an integral multiple of the other.

# ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 30 cents a sheet.

730,098. **PRESSURE AND TEMPERATURE SENSING DEVICE.** Edward J. Guske and Walter Brewer, Jr., Buffalo, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware. Filed Feb. 21, 1947. Published Aug. 18, 1953. Class 73—345. 1 sheet of drawings. 7 pages of specification.



In order to avoid the interference, turbulence and inaccuracies caused by separate instrumentalities in aerodynamic and thermodynamic testing, a Pitot-static pressure tube and a temperature sensing thermocouple are effectively combined into a single device by making the component tubes of the Pitot-head of dissimilar materials which cooperate to form the thermocouple. The combined Pitot-tube device 40 for sensing both fluid pressure differentials and temperatures within a fluid stream comprises a pair of coaxially disposed elongated tubular members 44 and 46 formed of electrically conductive dissimilar metals. The inner tubular member 44 has an open end 44*a* axially aligned with the direction of fluid flow for conducting dynamic pressure through the tube 44*b* to a pressure sensitive means. The outer tubular member 46 has a plurality of openings 46*c* normal to the direction of fluid flow arranged to conduct static pressure through the tube 46*b*, also to the pressure sensitive means. The tubular members 44 and 46 are joined together at their adjacent forward extremities at 44*a* and 46*a*, respectively, with a bluntly rounded leading edge for the formation of the thermocouple. The tubes 44 and 46 are otherwise insulated from each other such as by the insulating rubber grommet seal 45 and are provided with conductors 42*c* and 43*c*, respectively, to a temperature sensitive means. The outer tube 46 is streamlined to reduce turbulence by the provision of a relatively pointed trailing edge 41 and the device may be supported from the adjacent structure by either one or both of the transverse tubes 44*b* and 46*b*.

772,859. **APPARATUS FOR DECONTAMINATING RADIOACTIVE SHIPS.** Jack De Ment, Portland, Oreg. Filed Sept. 8, 1947. Published Aug. 18, 1953. Class 204—224. 2 sheets of drawings. 32 pages of specification.



The application discloses apparatus for cleaning the hull of a ship or any other structure for the removal particularly of radioactive contamination or marine growth. Cleansing is done by the passage of an electric current between the surface to be cleaned and an electrode moved over the surface. In the case of cleaning the hull of a ship sea water serves as the electrolyte between the two electrode surfaces. Preferably the ship surface is made anodic and the movable electrode is the cathode.

The structure used for cleaning the hull of a ship is shown in Figure 1. The ship 1 has tracks 2 secured thereon and a movable electrode structure in the form of a brush is adapted to travel on the tracks. The brush structure is formed of an insulating body 4 and has a member 3 extending therethrough, the member 3 having serrated wheels 222 at each end for movement on the tracks.

The brush member has a bottom plate 66 provided with metallic bristles 5. Current is led to the metallic bristles 5 and the ship structure from leads 6 which are connected to a source of electric current. One of the leads 66 is connected with a conduit member 3 which conducts the current to the ship surface 1. The other lead 666 connects with the plate 66 which leads to the bristles.

Appropriate cables and a power winch serve to move the brush member over the surface. In one embodiment the tracks are arranged for vertical movement of the brush while in another embodiment the tracks are arranged for horizontal movement. There is a suggestion that the brush may be moved by an electric motor secured to the brush. As illustrative of the current density the current density may be less than 10 amp./sq. ft. or as much as 200 amp./sq. ft. The brush velocities may be from several ft./min. to 50 ft./min.

784,821. **METHOD OF AND APPARATUS FOR DRAWING STRAIGHT FINE WIRE.** Clarence F. Larkin, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, a corporation of New York. Filed Nov. 8, 1947. Published Aug. 18, 1953. Class 205—29. 1 sheet of drawings. 6 pages of specification.

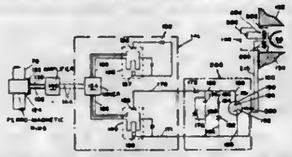


A method of producing straight fine wire of the order of a mil in diameter by a drawing operation wherein tandem dies, supported in respective die casements 16 and 17, are oriented by rotation about the drawing axis so that their imperfections at the drawing surface are so related to each other that they induce counterbalancing longitudinal surface strains in the drawn wire to produce a transverse balance of such strains around the periphery of the wire.



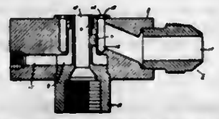


60,991. **INDUCTION ACCELERATOR FOR SYNCHROTRON.** John P. Blewett, East Patchogue, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Filed Nov. 19, 1948. Published Aug. 18, 1953. Class 250—27. 2 sheets of drawings. 14 pages of specification.



The disclosure relates to an accelerating unit for use with high energy particle accelerators and comprises (*a*) a ring 124 of high permeability ferrite material enclosing a straight portion 116 of the evacuated chamber of the particle accelerator, (*b*) an electrically conductive winding 122 linking the ring 124, (*c*) a power amplifier 140 connected to the winding 122, (*d*) an oscillator unit 142 having constant frequency oscillator 146, frequency modulated oscillator 149 and mixer unit 154 for energizing the power amplifier, (*e*) a voltage wave forming unit 200 which applies a voltage to Klystron plate 165 and (*f*) a trigger unit 146 which applies a voltage bias to the grid of thyratron 190 in response to flux density between the magnet poles 192, 194; the ferromagnetic ring 124 providing a relatively high input impedance for the power amplifier at the low end of the frequency range and a relatively high Q value at the high end of the frequency range whereby a varying flux density is established in the ferromagnetic ring to induce an electric field within its hollow core, thereby accelerating charged particles passing therethrough.

132,034. **FUEL INJECTION HEAD.** John S. Griffith, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Dec. 9, 1949. Published Aug. 18, 1953. Class 299—140.1. 2 sheets of drawings. 8 pages of specification.



A driving fluid injection head for a jet propulsion engine comprising a fuel conduit 12, an annular outlet 16 for an inert gas surrounding the fuel outlet conduit, and an annular oxidizer outlet 14 surrounding the inert gas outlet, all three outlets being substantially coplanar.

153,704. **EXTRUSION COATING OF SHEET MATERIALS.** Charles Marion Fields, Zanesville, Ohio, assignor to E. I. du Pont de Nemours & Co., Wilmington, Del., a corporation of Delaware. Filed Apr. 3, 1950. Published Aug. 18, 1953. Class 154—102. 1 sheet of drawings. 19 pages of specification.

This disclosure relates to the extrusion coating of sheet materials such as paper with a film of a synthetic linear polymer of sharp melting point, auch as the solid ethylene polymers, chlorinated solid ethylene polymers, and polyamides.

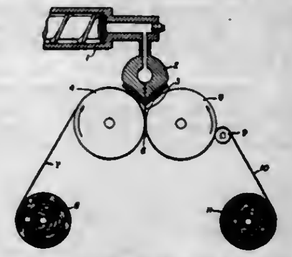
As illustrated in the drawing, the polymer is extruded by extrusion machine 1 through the die 2 provided with a narrow slit orifice, to form the molten film 3. A pair of adjacent parallel rolls 4 and 5, rotating in opposite directions, are positioned below the die 2 so that the molten film 3 travels a short distance substantially vertically to reach the nip 6 of the rolls.

The sheet 7, to which the film 3 is to be applied, is run off the supply roll 8 over and partially around the roll 4 and into the nip 6 of the rolls. The sheet 7 and film 3 contact each other substantially right at the nip 6 of the rolls so that they contact each other, are pressed together by the rolls 4 and 5, and the exposed surface of the film 3 (the other surface being covered by the sheet 7) is chilled by the roll 5, all substantially simultaneously.

An essential condition of the invention is that the film 3 be molten when it contacts the sheet 7 and reaches the nip 6. To do this conveniently the die 2 is arranged so that the distance between it and the nip 6 is extremely short and also so that the film 3 does not contact the chilling roll 5 before it reaches the nip 6.

The sheet 7 and film 3 substantially as they contact, pass through the nip 6 with positive pressure being applied by the rolls 4 and 5 and thereafter continue around the roll 5 to the roll 9, pass over the roll 9, and the united sheet and film 10 are then wound up on the storage roll 11.

The roll 4 may be equipped with steam coils so that it can be heated while roll 5 is equipped for cold water circulation so that it may be cooled. The roll 5 should be maintained at a temperature below the solidification point of the film 3. Although not essential, the roll 4 may be heated for the purpose of preheating sheet 7. If the roll 4 is not to be heated, there is no need to pass the sheet 7 over and partially around it as the sheet can be fed directly into the nip 6 without previous contact with the roll 4.



The pressure conventionally exerted by calender rolls is not required in the instant process wherein lies a substantial advantage, but the rolls 4 and 5 should exert some positive pressure on the sheet 7 and film 3 passing through the nip 6. This may be conveniently effected by mounting one of the rolls on an eccentric bearing and using a friction drive. At least one of the rolls should be positively driven and both may be positively driven, in which latter case they need not necessarily be driven at the same peripheral speeds. The best results are obtained and therefore it is preferred to operate when roll 5 is positively driven. One reason for this is that if the paper begins to tear or breaks during the process, the continuous extrusion of film 3 is not interrupted while the paper is being refed or the feed is being adjusted. Also, when roll 5 is positively driven, it is preferred that roll 4 be frictionally driven, or in other words, roll 4 is the idling roll whereby the sheet 7 is propelled by contact with the film 3, which in turn is propelled by positively driven roll 5.

The roll 5 should have an incompressible surface, normally a metal roll is used, and the surface may be smooth or embossed. The roll 4 may

also be a metal roll or otherwise have an incompressible surface but it is preferred to provide it with a compressible surface. A rubber roll is quite suitable.

The following example wherein all parts are by weight unless otherwise noted, illustrates the instant process.

EXAMPLE I

Ethylene polymer having an average molecular weight of 18,000–20,000 as determined by the method described in Fawcett U. S. Patent 2,153,553, and containing 0.2% of N,N'-diphenyl-p-phenylenediamine as an antioxidant, was fed into a Royle No. 1 plastics extruder. The slit-like die opening on the extruder was 0.005 inch wide and the temperature of the die was kept between 250° C.–300° C. during the extrusion. The extruded molten film was led through an air gap of 3 to 3.5 inches to the nip of two rotating rolls as shown in Fig. 1. Roll **5** was a positively driven cored polished steel roll 3.5 inches in diameter, the surface of which was kept chilled to a temperature of approximately 50° C. by internally circulating cold water. Roll **4** was a rubber roll of 35–40 Shore Durometer hardness and was 2¾ inches in diameter. This roll was at room temperature and was friction driven on an eccentric bearing to allow variation of the pressure. The molten film came in contact with a sheet of paper 0.005 inch thick at the nip of the two rolls. The take-off speed of the united paper and film was varied up to 60 feet per minute and the pressure between the rolls was also varied to give ethylene polymer coatings as thin as 0.0007 inch. An adherent, smooth, even coating of ethylene polymer (0.0007 inch thick) was obtained on the paper at 60 feet per minute take-off speed.

When the surface of roll **5** was allowed to warm up to 90° C. by stopping the circulation of cold water, the polymer film showed some tendency to stick to this roll.

**158,440. PNEUMATIC TIRE CONSTRUCTION.** Burgess Darrow, Akron, Ohio. Filed Apr. 17, 1950. Published Aug. 18, 1953. Class 152—356. 1 sheet of drawings. 14 pages of specification.



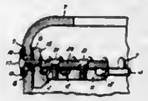
The application relates to the construction of pneumatic tires wherein cords of cotton, rayon, nylon or wire are twisted in a manner to secure more equal distribution of stresses to the tire cords so that longer tire life will be obtained.

This is accomplished by utilizing cords of opposite twist in adjacent plies that cross each other. Thus, in a two-ply tire if the cords in the first ply are left twist, those in the second ply will be right twist, and vice versa. Also, in a four-ply or larger tire where alternate plies cross each other, if the cords in the first ply are left twist, the cords in all odd numbered plies will be left twist, while the cords in all even numbered plies will be right twist, and vice versa. Similarly, in tires with groups or sets of plies crossing each other, each group or set will employ cords of opposite twist, either left or right, depending upon the direction of twist of the first group or set.

When twisted in the manner provided herein, the crevices in the spirals of the final twist of all the cords in the tire, when viewed from outside the tire, will appear as lines which lie in approximately parallel planes, which planes will either be all approximately tangential to the tire beads, or all approximately intersecting the tire beads radially.

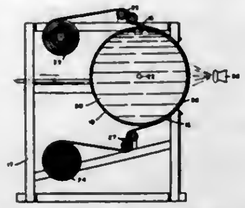
The drawing shows cords **11***a* and **12***a*, one cord from each of two outer plies, crossing each other with the crevices **11***b* and **12***b* in the spirals of the final twist appearing as lines lying in planes approximately tangential to the tire bead which will conform generally with the curvature of the arrow shown. It is apparent that if the respective cords are twisted in the opposite direction from that shown the crevices of the spirals of the cords will lie in planes approximately intersecting the tire bead radially.

**174,776. GUARD MEANS FOR THE SPIN BASKETS OF WASHING MACHINES OR THE LIKE.** Winston L. Shelton, Trenton, N. J., assignor to General Electric Company, a corporation of New York. Filed July 19, 1950. Published Aug. 18, 1953. Class 210—76. 1 sheet of drawings. 10 pages of specification.



This application relates to a clothes washing machine having a spin basket **9** with a row of circumferentially spaced liquid overflow ports **7** adjacent its upper edge. An annular clothes barrier to retain articles of clothing within the spin basket against the action of overflow liquid and centrifugal force comprises a plurality of relatively narrow brackets, each having a foot portion **15** adapted to be secured to the basket and a support arm portion **11** projecting radially inwardly from the basket wall. Means **17** extend through certain of the overflow ports for securing the brackets to the basket wall in substantially equiangular spaced relation. The support arm of each bracket has a plurality of upwardly open grooves **12** concentric with respect to the basket axis. A plurality of guard rings of relatively small cross-sectional area are receivable within grooves **12**, with the largest of the rings having a diameter closely approaching the inside diameter of basket **8** and the radial distance between adjacent rings increasing progressively from the largest ring inwardly. Plate **20** and screws **21** provide means for securing the rings within the grooves.

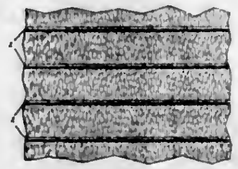
**180,473. METALLIZED PRODUCT.** John D. Akerman and Martin J. Stesin, Minneapolis, Minn., and Alvin Geltman, Cleveland, Ohio; said Stesin assignor to said Akerman and said Geltman. Filed Aug. 19, 1950. Published Aug. 18, 1953. Class 117—105. 3 sheets of drawings. 12 pages of specification.



In making metallized fabric the cloth or fabric base **15** is passed around a rotatable drum **19** of heat conductive material, within which is circulated a cooling medium, finely atomized molten metal is directed against the surface of the fabric from spray gun **28**. The metal spreads over the surface of the fabric to provide a substantially continuous metallic surface intimately impregnated into the plies of the cloth. This product may be passed through a fireproofing bath and dried to render the product fireproof and it may be further treated to smooth the surface by passing between pressure rollers, which may be operated at a differential speed.



**204,554. HIGH-STRENGTH POROUS PAPER.** Leo Mulligan, West Stockbridge, Mass., assignor to General Electric Company, a corporation of New York. Filed Jan. 5, 1951. Published Aug. 18, 1953. Class 92—40. 1 sheet of drawings. 6 pages of specification.



The application relates to porous paper consisting of fibers physically and chemically bonded together to form a thin sheet and a plurality of continuous threads embedded in the body of the sheet laterally spaced apart from each other and extending substantially parallel to each other throughout the entire length of the sheet. The sheet is made by laying the thread between the plies of paper pulp on a cylinder type paper making machine. By increasing the hydration of the pulp sufficiently, the flow of fiber is made large enough that the identity of the plies disappears and the resulting sheet is essentially homogeneous. A paper pulp comprising 70% kraft fiber and 30% manila fiber is disclosed. The threads may be either natural or synthetic fibers, such as cotton, silk, nylon or rayon. The paper may be creped. The paper may be used as a substitute for the cotton cloth tape used as a sacrifice tape in the manufacture of electrical equipment or it may be used in the manufacture of resin bonded and resin impregnated laminated materials, such as bonded paper cylinders used as insulators in transformers.

**247,741. RUBBER COMPOUNDS OF IMPROVED RESISTANCE TO SUN-CHECKING.** Fred W. Staten, Denver, Colo., assignor to the United States of America as represented by the Secretary of the Interior. Filed Sept. 21, 1951. Published Aug. 18, 1953. Class 260—28.5. No drawing. 15 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

This application is concerned with the prevention of "sun-checking" which is the name given to cracks and fissures which occur in rubber stock due to the effect of sunlight. The desired result is accomplished by adding to the rubber compounding mixture a small amount, e. g. from 0.25 to 5% based on the weight of the rubber, of a hydrocarbon wax which contains at least 10% olefinic unsaturates and has a reasonably high melting point, preferably from 100° to 200° F. Examples of such waxes are unsaturated shale oil waxes, and dehydrogenated paraffin waxes from which the oily, low-molecular weight materials have been removed. The rubber may be natural rubber or a synthetic rubber such as butadiene-styrene or butadiene-acrylonitrile copolymers.



Unsaturated shale oil wax, which is the preferred wax, is prepared by destructively distilling oil shale which contains an organic material called "kerogen." The latter breaks down yielding a mixture of hydrocarbons including shale oil. The shale oil crude is distilled to yield a wax fraction boiling between 675° and 950° F. and preferably between 750° and 925° F. at 760 mm. Hg. The aliphatic hydrocarbon wax is separated from this fraction by such methods as sweating or solvent extraction with compounds such as methyl-ethyl ketone or a mixture of ethylene dichloride and acetone. Although the crude wax produced in this manner is often satisfactory as is, the percentage of unsaturates may be increased by such methods as selective adsorption. Silica gel which adsorbs olefinic constituents more readily than paraffinic constituents may be used for this purpose. Waxes containing up to 100% of unsaturates may be obtained in this manner.

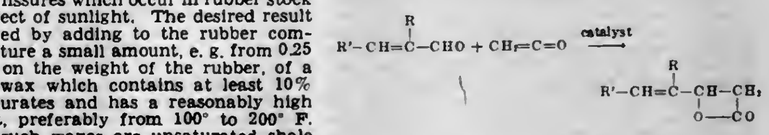
In a specific example, a wax containing 16.7% olefins, 83.3% of paraffins and napthenes and no aromatics is produced from a Colorado oil shale. About 1.8% by weight of this wax is added to a rubber compounding mixture and the properties of this composition were composed with three similar compositions, one of which contains no wax, another of which contains 1.8% of paraffin wax instead of the shale oil wax and the third of which contains 1.8% of Heliozone, which is a microcrystalline petroleum wax, instead of the shale oil wax. The composition containing the shale oil showed resistance to checking under various conditions which was superior to that of the other three compositions. This was accomplished without sacrifice of other properties such as tensile strength or elongation.

**252,194. PRODUCTION OF UNSATURATED ACIDS.** John R. Caldwell, Kingsport, Tenn. Filed Oct. 19, 1951. Published Aug. 18, 1953. Class 260—526. No drawing. 8 pages of specification.

This specification relates to the production of unsaturated carboxylic acids and more particularly to the production of carboxylic acids containing two olefinic linkages by a process involving the reaction of ketene with unsaturated aldehydes in the presence of a neutral condensing agent or catalyst to give unsaturated β-lactones which are pyrolyzed or hydrolyzed to form the related unsaturated acids.

A feature of the present process is the use of neutral bivalent metal salts as catalysts which are completely inert toward unsaturated aldehydes at the temperature of the reaction. Therefore the catalyst can be mixed with the unsaturated aldehyde and gaseous ketene passed into the mixture with stirring.

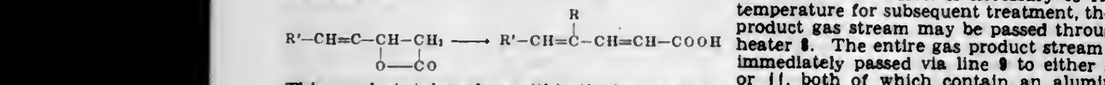
Under the conditions of the reaction, ketene reacts with the unsaturated aldehyde to give a β-lactone having the desired structure as shown in the following general equation:




The reaction may be conducted in the temperature range of −10° C. to 40° C. and preferably in the range of 0° C. to 25° C. Inert diluents may be employed.

This β-lactone is converted to the related di-

olefinic acid in accordance with the following general equation:



This pyrolysis takes place within the temperature range of 100–200° C.

In the above formulas, R is a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, including methyl, ethyl, propyl, butyl, secondary and tertiary butyl, or an aryl group of the benzene series having 6 to 10 carbon atoms such as phenyl, ortho, meta- and paratolyl, and R′ is a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, or an aryl group of 6 to 10 carbon atoms as just described.

Unsaturated aldehydes which may be advantageously employed are acrolein, α-methacrolein, crotonaldehyde, α-phenyl acrolein, α-phenyl crotonaldehyde, cinnamaldehyde, α-ethyl acrolein, and 2-ethyl hexenal. The process is of particular value for preparing sorbic acid from crotonaldehyde.

The catalysts include nickel, zinc and cobalt salts of aliphatic carboxylic acids containing 4 to 18 carbon atoms. The acid catalysts may be straight or branched chain compounds such as butyric, 2-ethyl butyric, hexanoic, 2-methyl hexanoic, decanoic, oleic and stearic. The preferred catalysts are the zinc and cobalt salts of butyric, 2-ethyl butyric and hexanoic acids. From 0.01 to 1.0% catalyst based on the weight of the aldehyde is employed.

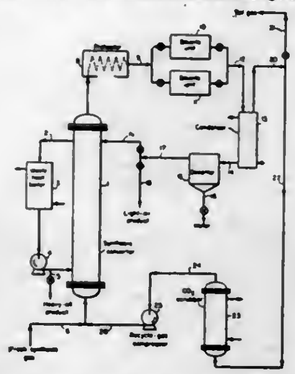
The following is a typical example:

*Example 1*

1 mol of ketene (42 g.) is passed into 3 mols (210 g.) crotonaldehyde, containing 1 g. of zinc 2-ethyl butyrate, at 25–30° C. The catalyst is precipitated by stirring the solution with 5 cc. of a saturated solution of sodium carbonate in water. Unreacted crotonaldehyde is distilled from the solution at reduced pressure. A residue of 90–100 g. crude lactone is obtained. 15 cc. of water and 2 g. toluene sulfonic acid are mixed with the crude lactone and the lactone is heated at 150–170° C. in a vacuum of 10 mm. A yield of 80–85 per cent crude sorbic acid is obtained that titrates to give an equivalent weight of 118–120 (theoret. 112). Recrystallization from the alcohol-water solution gives a product that shows an equivalent weight of 112 by titration.

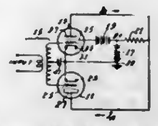
272,626. **PROCESS FOR THE PRODUCTION OF PREDOMINANTLY LIQUID HYDROCARBONS BY THE FISCHER-TROPSCH SYNTHESIS.** Homer E. Benson and Martin D. Schlesinger, Pittsburgh, and Leonard Alberts, Library, Pa., assignors to the United States of America as presented by the Secretary of the Interior. Filed Feb. 20, 1952. Published Aug. 18, 1953. Class 260—450. 1 sheet of drawings. 22 pages of specification.

This application discloses a method of treating products comprising normally liquid olefinic and paraffinic hydrocarbons, oxygenated organic compounds, and water obtained by the hydrogenation of carbon monoxide. Fresh synthesis gas consisting of a purified mixture of hydrogen and carbon monoxide enters the system via line **6** and passes into synthesis converter **1**, which contains an iron-type catalyst immersed in a liquid coolant comprised essentially of the higher molecular weight products of the synthesis. A product gas steam, containing normally liquid olefinic and paraffinic hydrocarbons, oxygenated organic compounds, water, and noncondensible gases, is withdrawn from the synthesis converter by line **7** at substantially synthesis pressure and temperature conditions. If it is necessary to raise the temperature for subsequent treatment, the entire product gas stream may be passed through preheater **8**. The entire gas product stream is then immediately passed via line **9** to either zone **10** or **11**, both of which contain an alumina-base catalyst. In these zones the deoxygenation of the oxygenated organic compounds and the isomerization of the alpha-unsaturated olefins contained in the gas product stream takes place. The effluent from these zones is conducted by line **12** to a condenser **13** where condensible products including normally liquid hydrocarbons and water are separated from the noncondensible gases. The



total liquid product is then conducted by line **14** to a decanter **15** where an aqueous and a nonaqueous layer separate out. The aqueous layer is withdrawn from the bottom of the decanter by line **16**. The nonaqueous layer comprising the liquid hydrocarbon products is withdrawn from the decanter by line **17**. A higher molecular weight fraction of the liquid hydrocarbon products is recycled to the synthesis converter by line **19**. A lower molecular weight fraction is withdrawn from the liquid hydrocarbon products by line **18**. The gases which do not undergo condensation in condenser **13** are withdrawn by line **20**. A portion of this gas is vented from the system through line **21**, while a portion is recycled to the synthesis zone through line **22**.

283,847. **AMPLIFIER CIRCUIT.** Lawrence Joseph Giacoletto, West Windsor Township, N. J., assignor to Radio Corporation of America, a corporation of Delaware. Filed Apr. 23, 1952. Published Aug. 18, 1953. Class 179—171. 1 sheet of drawings. 15 pages of specification.



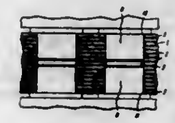
This application relates to an amplifier system which achieves the advantages of balanced (push-pull) operation with a load device which is unsymmetrical (single-sided) with respect to ground. The circuit arrangement uses a conventional type electron discharge device **11** which may be a triode, tetrode or pentode vacuum tube and a secondary emission tube **13** having a cathode **31**, control grid **33**, a dynode **37** and a collector electrode **35**. The cathodes **23** and **31** of



the two discharge devices **11** and **13** are electrically connected together and to a point of potential reference such as ground **39**. The grid **25** of the conventional electrical discharge device **11** and the grid **33** of the secondary emission device **13** are coupled in push-pull relation. The anode **27** of the conventional electron discharge device **11** is connected to the dynode electrode **37** of the secondary emission discharge device **13** and also to one end of a load device **21**. Operating voltage for both electron discharge devices **11** and **13** is supplied between the common cathode connection and the other end of the load device **21** by the source of unidirectional operating potential **17**. From the positive side of the source of unidirectional potential **17**, an auxiliary source of operating potential **19** is connected in series to the collector electrode **35** of the secondary emission discharge device **13**. The output signal appears across the load device **21** but there is no resultant direct current therethrough.

299,080. **DYNAMOELECTRIC MACHINE CORE MEMBER.** James A. McKim, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York. Filed July 16, 1952. Published Aug. 18, 1953. Class 310—254. 1 sheet of drawings. 7 pages of specification.

Discloses a dynamoelectric machine core member **1** having a winding slot **3** formed therein, the junctions of the wall of the slot with the outer surfaces of the core being rounded as at **10**, **11**



thereby to prevent cutting of insulation in the slot.

320,828. **MELAMINE SYNTHESIS.** Nat H. Marsh, Noroton Heights, Conn. Filed Nov. 15, 1952. Published Aug. 18, 1953. Class 260—249.7. No drawing. 7 pages of specification.

This application discloses that melamine can be synthesized from the customary melamine forming materials, for example, urea, dicyandiamide, and the like, with or without additional ammonia at superatmospheric pressure, in a pressure vessel lined with an alloy consisting of about 64% of titanium and 36% aluminum, the liner serving to prevent corrosion of the vessel.

# DESIGNS

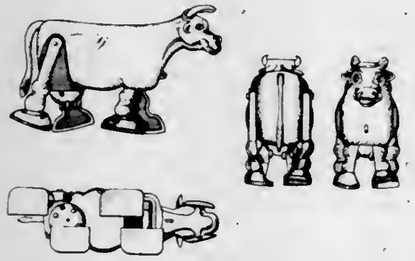
AUGUST 18, 1953

**170,181**
**TABLE LAMP**
**Anna Arch, New York, N. Y.**
**Application February 9, 1953, Serial No. 23,523**
**Term of patent 14 years**
**(Cl. D48—20)**



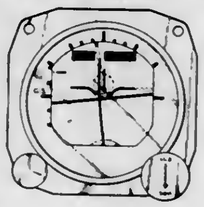
The ornamental design for a table lamp, as shown.

**170,182**
**TOY COW**
**Laurie J. Campbell, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York**
**Application December 30, 1952, Serial No. 22,929**
**Term of patent 7 years**
**(Cl. D34—15)**



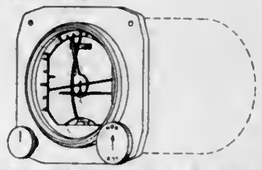
The ornamental design for a toy cow, substantially as shown.

**170,183**
**APPROACH HORIZON**
**Arthur A. Collins and Rolf W. Wollan, Cedar Rapids, Iowa**
**Application August 4, 1951, Serial No. 16,164**
**Term of patent 14 years**
**(Cl. D52—1)**



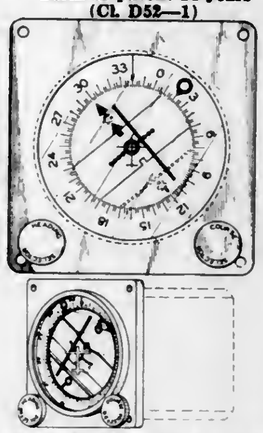


**170,183—Continued**



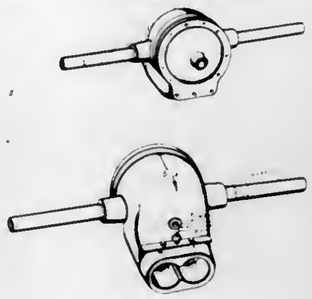
The ornamental design for an approach horizon, as shown and described.

**170,184**
**COURSE INDICATOR**
**Arthur A. Collins and Horst M. Schweighofer, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa**
**Application August 8, 1951, Serial No. 16,210**
**Term of patent 14 years**
**(Cl. D52—1)**



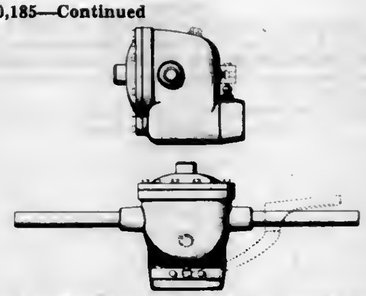
The ornamental design for a course indicator, as shown and described.

**170,185**
**DRILL UNIT**
**Andrew B. Crichton, Jr., Johnstown, Pa.**
**Application April 4, 1952, Serial No. 19,195**
**Term of patent 14 years**
**(Cl. D54—14)**



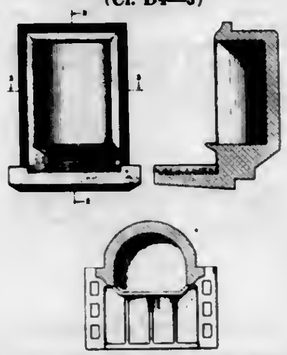


**170,185—Continued**



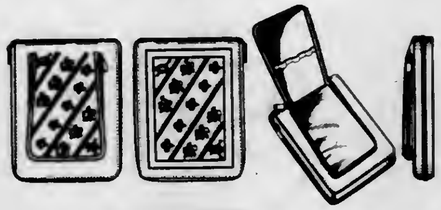
The ornamental design for a drill unit, as shown and described.

**170,186**
**COMBINED SOAP DISH, TUMBLER, AND TOOTHBRUSH HOLDER**
**John Di Sopra, Greenhill Farms, Pa.**
**Application March 6, 1953, Serial No. 23,935**
**Term of patent 14 years**
**(Cl. D4—3)**



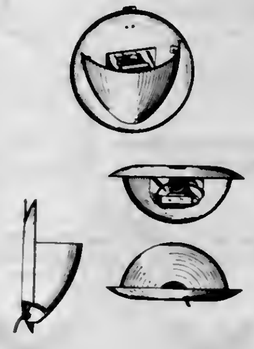
The ornamental design for a combined soap dish, tumbler, and toothbrush holder as shown.

**170,187**
**COMBINED WALLET AND HOLDER FOR MANICURING AND SEWING ACCESSORIES**
**Norman Eichel, New York, N. Y.**
**Application March 5, 1953, Serial No. 23,921**
**Term of patent 7 years**
**(Cl. D87—3)**



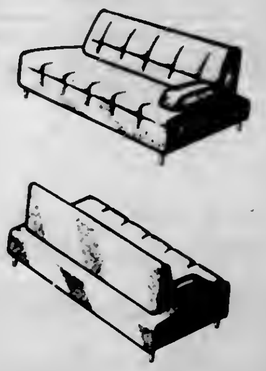
The ornamental design for a combined wallet and holder for manicuring and sewing accessories, substantially as shown.

**170,188**
**WALL FIXTURE FOR DEODORIZING LAMPS**
**Charles W. Flood, Jr., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 9, 1952, Serial No. 19,647**
**Term of patent 14 years**
**(Cl. D48—4)**



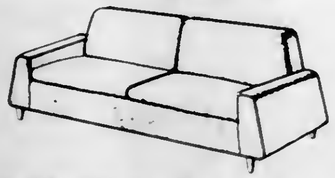
The ornamental design for a wall fixture for deodorizing lamps, as shown.

**170,189**
**SECTIONAL SOFA**
**Henry P. Glass, Chicago, Ill., assignor to The William Brenner Furniture Corp., Cincinnati, Ohio, a corporation of Ohio**
**Application April 24, 1953, Serial No. 24,660**
**Term of patent 3½ years**
**(Cl. D15—11)**



The ornamental design for a sectional sofa, as shown.

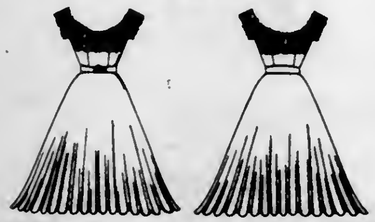
**170,190**
**LIVING ROOM SOFA**
**Henry P. Glass, Chicago, Ill., assignor to The William Brenner Furniture Corp., Cincinnati, Ohio, a corporation of Ohio**
**Application April 24, 1953, Serial No. 24,662**
**Term of patent 3½ years**
**(Cl. D15—11)**



The ornamental design for a living room sofa as shown.

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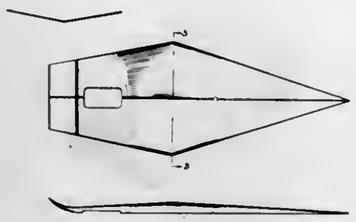
**170,191**
**DRESS**
**David E. Gothé, New York, N. Y.**
**Application March 4, 1953, Serial No. 23,888**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

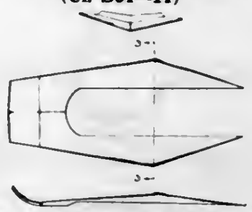
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**170,192**
**AIRCRAFT SKI OR SIMILAR ARTICLE**
**Howard S. Green, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware**
**Application November 5, 1952, Serial No. 22,135**
**Term of patent 14 years**
**(Cl. D34—14)**



The ornamental design for an aircraft ski or similar article, substantially as shown.

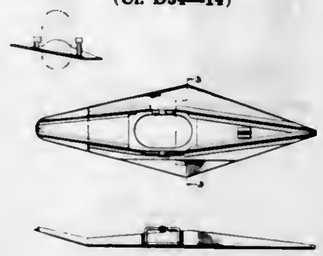
**170,193**
**AIRCRAFT SKI OR SIMILAR ARTICLE**
**Howard S. Green, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware**
**Application November 5, 1952, Serial No. 22,136**
**Term of patent 14 years**
**(Cl. D34—14)**



The ornamental design for an aircraft ski or similar article, substantially as shown.

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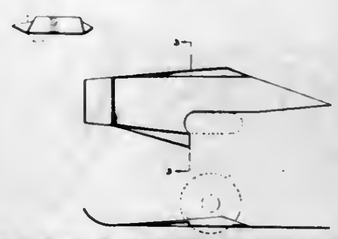
**170,194**
**AIRCRAFT SKI OR SIMILAR ARTICLE**
**Howard S. Green, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware**
**Application November 5, 1952, Serial No. 22,137**
**Term of patent 14 years**
**(Cl. D34—14)**



The ornamental design for an aircraft ski or similar article, as shown and described.

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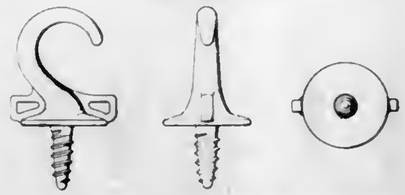
**170,195**
**AIRCRAFT SKI OR SIMILAR ARTICLE**
**Howard S. Green, Wilmington, Del., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del., a corporation of Delaware**
**Application November 5, 1952, Serial No. 22,138**
**Term of patent 14 years**
**(Cl. D34—14)**



The ornamental design for an aircraft ski or similar article, as shown and described.



**170,196**
**CUP HOOK**
**Otto Gries, New Rochelle, N. Y.**
**Application March 16, 1953, Serial No. 24,045**
**Term of patent 14 years**
**(Cl. D54—2)**



The ornamental design for a cup hook, as shown.

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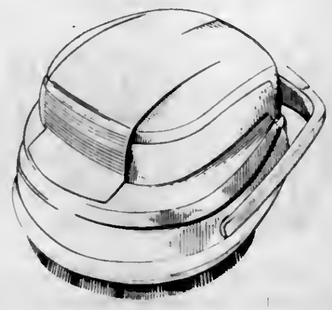
**170,197**
**DRESS**
**Joseph Stanley Gross, New York, N. Y.**
**Application February 26, 1953, Serial No. 23,803**
**Term of patent 3½ years**
**(Cl. D3—26)**



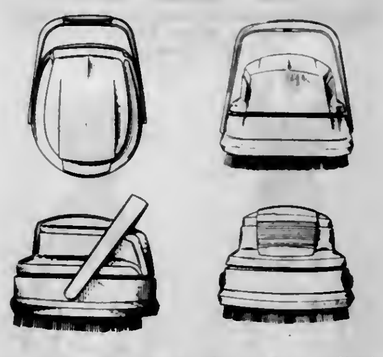
The ornamental design for a dress, substantially as shown.

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**170,198**
**FLOOR POLISHING UNIT**
**William C. Harris, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.**
**Application March 11, 1953, Serial No. 23,992**
**Term of patent 14 years**
**(Cl. D9—2)**



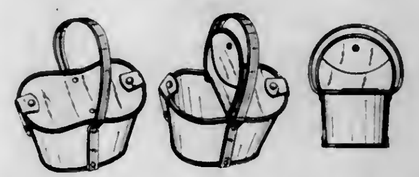
**170,198—Continued**



The ornamental design for a floor polishing unit, as shown and described.

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**170,199**
**HANDBAG**
**Sidney Hyman, New York, N. Y.**
**Application February 27, 1953, Serial No. 23,824**
**Term of patent 3½ years**
**(Cl. D87—3)**



The ornamental design for a handbag, as shown.

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**170,200**
**DRESS**
**Beatrice Kalish, New York, N. Y.**
**Application April 20, 1953, Serial No. 24,575**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

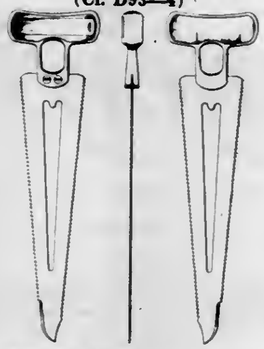
**170,201**
**DRESS**
**Beatrice Kalish, New York, N. Y.**
**Application April 20, 1953, Serial No. 24,576**
**Term of patent 3½ years**
**(Cl. D3—26)**



The ornamental design for a dress, substantially as shown.

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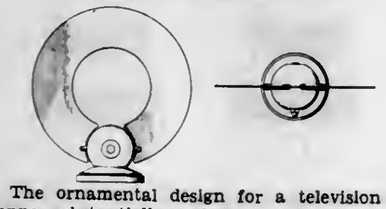
**170,202**
**SAW**
**Russell D. Knapp, Elko, Nev.**
**Application March 12, 1953, Serial No. 24,002**
**Term of patent 14 years**
**(Cl. D93—4)**



The ornamental design for a saw, as shown.

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**170,203**
**TELEVISION ANTENNA**
**Ralph N. Leonard, Crystal Lake, Ill.**
**Application May 1, 1953, Serial No. 24,794**
**Term of patent 7 years**
**(Cl. D26—14)**



The ornamental design for a television antenna, substantially as shown.

**170,204**
**DISPLAY CABINET**
**Charles W. Long, Philadelphia, Pa.**
**Application January 23, 1953, Serial No. 23,276**
**Term of patent 14 years**
**(Cl. D80—11)**



The ornamental design for a display cabinet, as shown and described.

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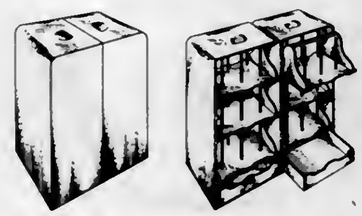
**170,205**
**RELIGIOUS PLAQUE**
**Louis F. Mancini, Bradshaw, and Doris Marie Bauernfeind, Middle River, Md.**
**Application April 18, 1952, Serial No. 19,396**
**Term of patent 14 years**
**(Cl. D29—23)**



The ornamental design for a religious plaque, as shown and described.

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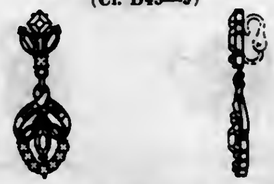
**170,206**
**COMBINED PLAYING CARD AND POKER CHIP CASE OR SIMILAR ARTICLE**
**Walter Wilford Morgenweck, Fanwood, N. J.**
**Application December 18, 1952, Serial No. 22,757**
**Term of patent 3½ years**
**(Cl. D34—13)**



The ornamental design for a combined playing card and poker chip case or similar article, substantially as shown.



**170,207**
**EARRING OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application April 27, 1953, Serial No. 24,683**
**Term of patent 7 years**
**(Cl. D45—9)**



The ornamental design for an earring or the like, substantially as shown.

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**170,208**
**BROOCH OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application April 27, 1953, Serial No. 24,685**
**Term of patent 7 years**
**(Cl. D45—19)**



The ornamental design for a brooch or the like, substantially as shown.

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**170,209**
**BROOCH OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application April 27, 1953, Serial No. 24,686**
**Term of patent 7 years**
**(Cl. D45—19)**



The ornamental design for a brooch or the like, substantially as shown.

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**170,210**
**LINK CHAIN FOR A BRACELET OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application April 27, 1953, Serial No. 24,687**
**Term of patent 7 years**
**(Cl. D45—4)**



The ornamental design for a link chain for a bracelet or the like, substantially as shown.

**170,211**
**NECKLACE OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application April 27, 1953, Serial No. 24,688**
**Term of patent 7 years**
**(Cl. D45—16)**



The ornamental design for a necklace or the like, substantially as shown and described.

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**170,212**
**EARRING OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application May 1, 1953, Serial No. 24,805**
**Term of patent 7 years**
**(Cl. D45—9)**



The ornamental design for an earring or the like, substantially as shown.

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**170,213**
**BROOCH OR THE LIKE**
**Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.**
**Application May 1, 1953, Serial No. 24,807**
**Term of patent 7 years**
**(Cl. D45—19)**



The ornamental design for a brooch or the like, substantially as shown.

170,214
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,808
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,215
**NECKLACE OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 1, 1953, Serial No. 24,812
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

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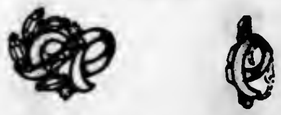
170,216
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,876
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,217
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,877
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,218
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,878
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,219
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,879
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,220
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,880
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.



170,221
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,882
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,222
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,883
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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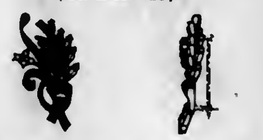
170,223
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,884
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,224
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 6, 1953, Serial No. 24,885
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,225
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,055
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,226
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,056
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,227
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,057
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,228
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,058
Term of patent 7 years
(Cl. D45—19)



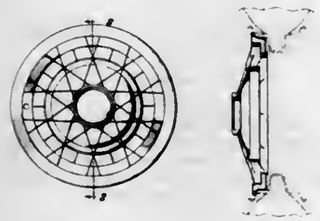
The ornamental design for a brooch or the like, substantially as shown.

170,229
**LINK CHAIN FOR A NECKLACE OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application May 18, 1953, Serial No. 25,072
Term of patent 7 years
(Cl. D45—16)



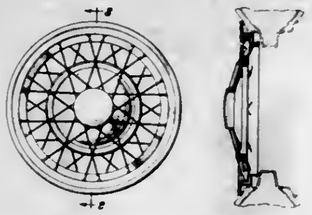
The ornamental design for a link chain for a necklace or the like, substantially as shown.

170,230
**WHEEL COVER**
Bernard Plotkin, Los Angeles, Calif., assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif., a corporation of California
Application September 15, 1952, Serial No. 21,474
Term of patent 14 years
(Cl. D14—30)



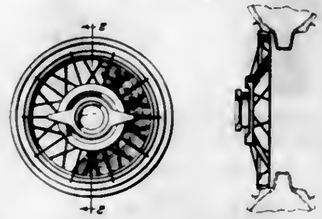
The ornamental design for a wheel cover, substantially as shown and described.

170,231
**WHEEL COVER**
Bernard Plotkin, Los Angeles, Calif., assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif., a corporation of California
Application October 28, 1952, Serial No. 22,026
Term of patent 14 years
(Cl. D14—30)



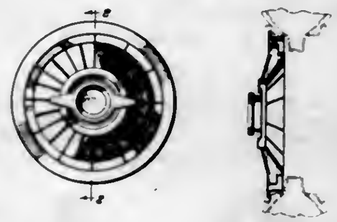
The ornamental design for a wheel cover, substantially as shown and described.

170,232
**WHEEL COVER**
Bernard Plotkin, Los Angeles, Calif., assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif., a corporation of California
Application December 23, 1952, Serial No. 22,846
Term of patent 14 years
(Cl. D14—30)



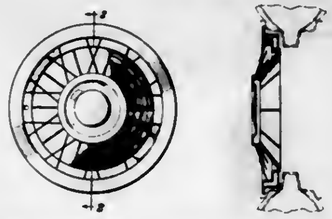
The ornamental design for a wheel cover, substantially as shown and described.

170,233
**WHEEL COVER**
Bernard Plotkin, Los Angeles, Calif., assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif., a corporation of California
Application December 23, 1952, Serial No. 22,851
Term of patent 14 years
(Cl. D14—30)



The ornamental design for a wheel cover, substantially as shown and described.

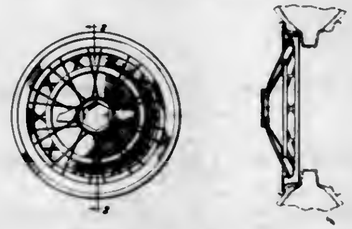
170,234
**WHEEL COVER**
Bernard Plotkin, Los Angeles, Calif., assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif., a corporation of California
Application December 23, 1952, Serial No. 22,853
Term of patent 14 years
(Cl. D14—30)



The ornamental design for a wheel cover, substantially as shown and described.

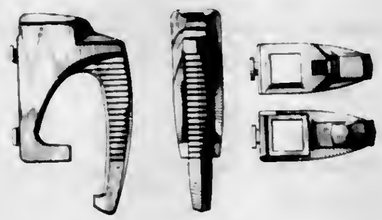


170,235
**WHEEL COVER**
Bernard Plotkin, Los Angeles, Calif., assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif., a corporation of California
Application December 23, 1952, Serial No. 22,855
Term of patent 14 years
(Cl. D14—30)



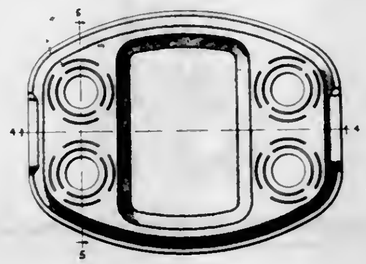
The ornamental design for a wheel cover, substantially as shown and described.

170,236
**HANDLE FOR PORTABLE PICTURE SCREENS OR THE LIKE**
Frank J. Prokop, Chicago, Ill., assignor to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois
Application February 27, 1953, Serial No. 23,816
Term of patent 3½ years
(Cl. D61—1)

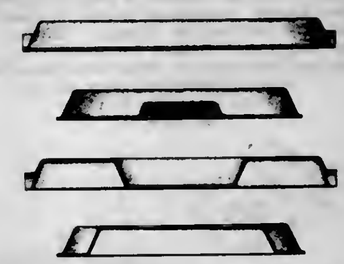


The ornamental design for a handle for portable picture screens or the like, as shown.

170,237
**SERVING TRAY**
Walter H. Randall, Waterville, Maine, assignor to Keyes Fibre Company, Portland, Maine, a corporation of Maine
Application November 29, 1952, Serial No. 22,496
Term of patent 14 years
(Cl. D44—10)

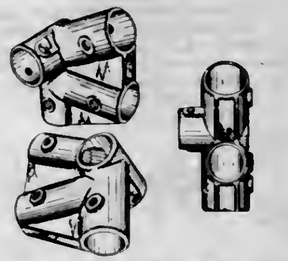


170,237—Continued



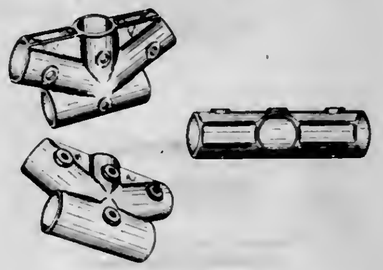
The ornamental design for a serving tray, as shown.

170,238
**FITTING FOR TUBULAR STRUCTURES**
Walter Raylor, Englefield Green, England, assignor of one-half to Alumasc Limited, London, England, a British company
Application March 11, 1952, Serial No. 18,850
In Great Britain September 12, 1951
Term of patent 14 years
(Cl. D54—2)



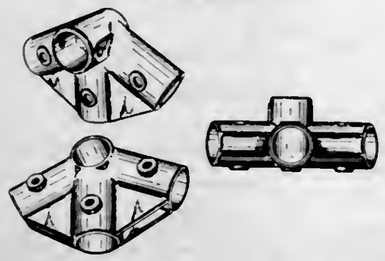
The ornamental design for a fitting for tubular structures, as shown.

170,239
**FITTING FOR TUBULAR STRUCTURES**
Walter Raylor, Englefield Green, England, assignor of one-half to Alumasc Limited, London, England, a British company
Application March 11, 1952, Serial No. 18,851
In Great Britain September 12, 1951
Term of patent 14 years
(Cl. D54—2)



The ornamental design for a fitting for tubular structures, as shown.

170,240
**FITTING FOR TUBULAR STRUCTURES**
Walter Raylor, Englefield Green, England, assignor of one-half to Alumasc Limited, London, England, a British company
Application March 11, 1952, Serial No. 18,852
In Great Britain September 12, 1951
Term of patent 14 years
(Cl. D54—2)



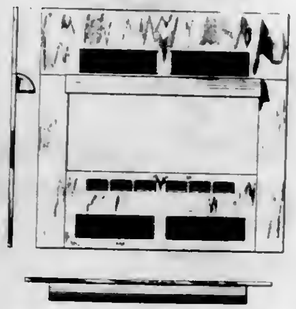
The ornamental design for a fitting for tubular structures, as shown.

170,241
**COMBINED FINGER RING AND HANDKERCHIEF HOLDER**
Bernice L. Robbins, Chicago, Ill.
Application November 4, 1952, Serial No. 22,118
Term of patent 3½ years
(Cl. D45—10)



The ornamental design for a combined finger ring and handkerchief holder, substantially as shown.

170,242
**FRONT PLATE FOR A CIRCULATING FIREPLACE HEATER**
Albert P. Robinson, Seattle, Wash.
Application May 16, 1952, Serial No. 19,752
Term of patent 14 years
(Cl. D81—7)



The ornamental design for a front plate for a circulating fireplace heater, as shown.

170,243
**STOOL**
Lloyd D. Royal, Wichita Falls, Tex.
Application April 20, 1953, Serial No. 24,570
Term of patent 14 years
(Cl. D15—8)



The ornamental design for a stool, as shown.

170,244
**LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE**
John V. Saccone, Lodi, N. J.
Application August 28, 1952, Serial No. 21,215
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or similar article, substantially as shown and described.

170,245
**LINK CHAIN FOR A BRACELET OR SIMILAR ARTICLE**
John V. Saccone, Lodi, N. J.
Application August 28, 1952, Serial No. 21,216
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a link chain for a bracelet or similar article, substantially as shown and described.

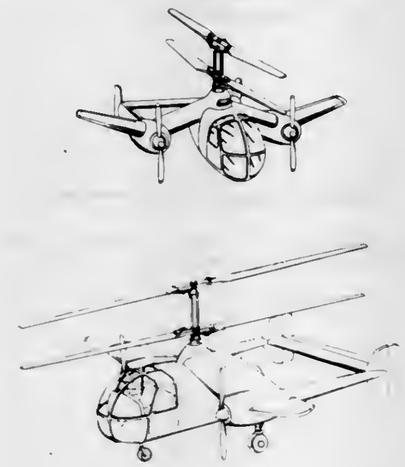
170,246
**PREFORMED NECKTIE**
Philip F. Spaniol, Baltimore, Md.
Application October 19, 1951, Serial No. 17,027
Term of patent 7 years
(Cl. D3—16)



The ornamental design for a preformed necktie, as shown and described.

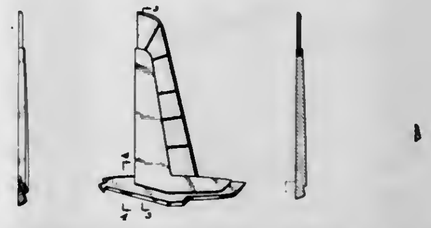


170,247
**ROTARY WING AIRCRAFT**
Edward W. Strong, Stony Brook, N. Y., assignor to Gyrodyne Company of America, Inc., Flowerfield, N. Y., a corporation of New York
Application April 29, 1952, Serial No. 19,513
Term of patent 14 years
(Cl. D71—1)



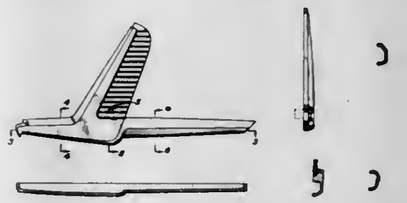
The ornamental design for a rotary wing aircraft, as shown.

170,248
**WHEEL ORNAMENT FOR MOTOR VEHICLES**
Carl W. Sundberg, Birmingham, Mich., assignor to Sundberg & Ferar, Royal Oak, Mich., a copartnership
Application January 7, 1953, Serial No. 23,048
Term of patent 3½ years
(Cl. D14—30)



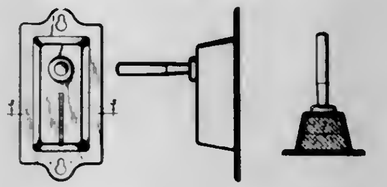
The ornamental design for a wheel ornament for motor vehicles, as shown.

170,249
**WHEEL ORNAMENT FOR MOTOR VEHICLES**
Carl W. Sundberg, Birmingham, Mich., assignor to Sundberg & Ferar, Royal Oak, Mich., a copartnership
Application January 7, 1953, Serial No. 23,049
Term of patent 3½ years
(Cl. D14—30)



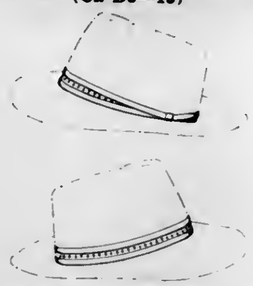
The ornamental design for a wheel ornament for motor vehicles, as shown.

170,250
**LIGHTER**
Kenneth M. Van Norman, East Moline, Ill.
Application February 18, 1953, Serial No. 23,671
Term of patent 14 years
(Cl. D48—27)



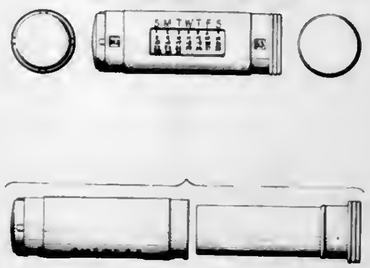
The ornamental design for a lighter, as shown.

**170,251**
**HAT**
**Samuel Weinstein, New York, N. Y.**
**Application July 17, 1952, Serial No. 20,652**
**Term of patent 3½ years**
**(Cl. D3—13)**



The ornamental design for a hat, substantially as shown and described.

**170,252**
**CALENDAR-TYPE LIPSTICK HOLDER**
**Julius A. Welebny, Rockville Centre, N. Y.**
**Application March 6, 1953, Serial No. 23,925**
**Term of patent 7 years**
**(Cl. D86—10)**



The ornamental design for a calendar-type lipstick holder, substantially as shown.

# LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Acrolite International: *See*—
Posnak, Murray P.

Aircraft-Marine Products Inc., Harrisburg, Pa. Insulated electrical connectors. Serial No. 613,860, Aug. 18. Class 21.

Alarcon, Angel C., Moron de la Frontera (Sevilla), Spain. Olive oil. Serial No. 610,946, Aug. 18. Class 46.

Allen Carpet Cleaning and Rug Weaving Company, Buffalo, N. Y. Cleaning and repairing of rugs, carpets, etc. Serial No. 619,780, Aug. 18. Class 103.

Allito Mfg. Co.: *See*—
Shelton, Rubye B.

American Hide and Leather Company, Flemington, N. J., and Boston, Mass. Calf leather. Serial No. 641,485, Aug. 18. Class 1.

American Hygienic Co., Washington, D. C. Prophylactic articles. Serial No. 629,645, Aug. 18. Class 44.

Amea Company, Inc., Elkhart, Ind. Pharmaceutical preparation. Serial No. 643,265, Aug. 18. Class 18.

Angrist, Harry, Elizabeth, N. J. Wood and sheet metal screws. Serial No. 643,629, Aug. 18. Class 13.

Anthracite Equipment Corporation, Wilkes-Barre, Pa. Carbonaceous powder used to assist in filtering. Serial No. 638,564, Aug. 18. Class 31.

Ardalt Inc., New York, N. Y. Porcelain vases; chinaware. Serial Nos. 624,583–7, Aug. 18. Class 30.

Arkell Safety Bag Company, New York, N. Y. Bags; and linings for bags, barrels, boxes, and drums. Serial No. 614,392, Aug. 18. Class 2.

Arkwright, Incorporated, New York, N. Y. Sewing machine needles, hand operated meat grinders, fruit juice mixers, and can openers; etc. Serial No. 632,109, Aug. 18. Class 23.

Asphalt Maintenance Company: *See*—
Moore, Clark.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Abrasive resistant coating composition. Serial No. 584,570, Aug. 18. Class 16.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Synthetic resin composition for coating and impregnating concrete, etc. Serial No. 615,748, Aug. 18. Class 12.

BJ Service, Inc., Long Beach, Calif. Cement additive and extender. Serial No. 635,215, Aug. 18. Class 12.

Babee-Tenda License Corporation, Metropolis, Ill., and Cleveland, Ohio. Repairing children's furniture. Serial No. 633,246, Aug. 18. Class 103.

Baker, George, Beverly Hills, Calif. Magazine. Serial No. 630,256, Aug. 18. Class 38.

Barzen Company, Minneapolis, Minn. Lawn and field seed. Serial No. 636,056, Aug. 18. Class 1.

Berkowitz, Harold, assignee: *See*—
Weld, Maria F.

Bloomer Bros. Company, Newark, N. Y. Egg cartons. Serial No. 637,298, Aug. 18. Class 2.

Boles, Edwin L., Pacific Palisades, Calif. Multiple deck, rolling ball puzzle. Serial No. 647,986, Aug. 18. Class 22.

Bradley, Milton, Company, Springfield, Mass. Board game. Serial No. 647,591, Aug. 18. Class 22.

British Columbia Forest Products Limited, Vancouver, British Columbia, Canada. Shingles. Serial No. 641,009, Aug. 18. Class 12.

Brookville Glove Company, Brookville, Pa. Household and garden gloves. Serial No. 640,034, Aug. 18. Class 39.

Burns & Russell Company, The, Baltimore, Md. Molded masonry building blocks and bricks. Serial No. 639,552, Aug. 18. Class 12.

Butereg Company, Inc., The, Pampa, Tex., and Kansas City, Mo. Bread. Serial No. 598,571, Aug. 18. Class 46.

Capital Drug Company, doing business as Pope Laboratories, Augusta, Maine. Preparation for the external treatment of muscular aches and pains, etc. Serial No. 635,120, Aug. 18. Class 18.

Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Static removing acrylic plastic cleaners or solutions, de-icer boot removing solutions, etc. Serial No. 617,336, Aug. 18. Class 6.

Central Chemical Company, Kansas City, Mo. Surgical soap. Serial No. 632,826, Aug. 18. Class 52.

Cherry-Burrell Corporation, Chicago, Ill. Processing apparatus for dairy products and the like. Serial No. 627,494, Aug. 18. Class 23.

Chevette, Inc., New York, N. Y. Ladies' and misses' underwear. Serial No. 642,803, Aug. 18. Class 39.

Childs Company, Long Island City, N. Y. Restaurant, luncheonette and bar services. Serial No. 636,689, Aug. 18. Class 100.

Ciba Limited, Basel, Switzerland. Coal tar colors. Serial No. 642,013, Aug. 18. Class 6.

Cicoli, Anthony J., doing business as Yankee Homecrafts, Medford, Mass. Art needlework device. Serial No. 627,996, Aug. 18. Class 40.

Clairol Incorporated, Stamford, Conn. Hair lightening preparations. Serial No. 620,803, Aug. 18. Class 51.

Clementon Hosiery Mill: *See*—
Lihn, Manuel M.

Coats & Clark Inc., New York, N. Y. Thread. Serial Nos. 643,652–4, Aug. 18. Class 43.

Coldin Cabinet Company, Inc., New York, N. Y. Frozen food cabinets, refrigerating dairy wall cases, refrigerating full vision display cases, etc. Serial Nos. 625,460–1, Aug. 18. Class 31.

Coloramic Tile Co. Inc., Chicago, Ill. Plastic wall tile. Serial No. 642,621, Aug. 18. Class 12.

Commercial Solvents Corporation, New York, N. Y. Bacitracin for intramuscular injection. Serial No. 630,122, Aug. 18. Class 18.

Companhia Industrial de Conservas Alimenticias "Cica," Sao Paulo, Brazil. Candies, prepared edible chocolate, cocoa, alimentary pastes, etc. Serial No. 596,899, Aug. 18. Class 46.

Con-Cor Paint Company, Kansas City, Mo. Cement-base, waterproof coating compound. Serial No. 611,942, Aug. 18. Class 16.

Courtaulds Limited, London, England. Artificial staple fibres. Serial No. 638,068, Aug. 18. Class 1.

Creative Workshop, The: *See*—
Weld, Maria F.

D. Swarovski Glasfabrik und Tyrolit-Schleifmittel-Werke, Wattens, Tirol, Austria. Light reflectors. Serial No. 598,934, Aug. 18. Class 34.

Darby, E. H., trading as E. H. Darby & Company, Sheffield, Ala. Aluminum windows. Serial No. 641,177, Aug. 18. Class 12.

Darby, E. H., & Company: *See*—
Darby, E. H.

Dell, Kathleen, School, Inc., Brookline, Mass. Conducting specialized educational courses in airline secretarial instruction and training. Serial No. 592,260, Aug. 18. Class 107.

Denni Hiasatel Printing & Publishing Co., Inc., Chicago, Ill. Series of books. Serial No. 642,203, Aug. 18. Class 38.

De Witt Carpets, Inc., New York, N. Y. Wool and wool and rayon twist velvet carpet. Serial No. 643,583, Aug. 18. Class 42.

Dilbeck Company, The: *See*—
Dilbeck, Thomas C.

Dilbeck, Thomas C., doing business as The Dilbeck Company, Los Angeles, Calif. Medicament. Serial No. 642,953, Aug. 18. Class 18.

Donnelley, R. R., & Sons Company, Chicago, Ill. Printing, photoengraving, lithographing, type-setting, and rotogravure work. Serial No. 627,562, Aug. 18. Class 101.

Doran, H. C. Co.: *See*—
Doran, Henry C.

Doran, Henry C., doing business as H. C. Doran Co., Battle Creek, Mich. Special deck of cards. Serial No. 626,785, Aug. 18. Class 22.

Dove, Helen, Martha's Vineyard, Mass. Appetizer hors d'oeuvre. Serial No. 637,043, Aug. 18. Class 46.

Drake, Buddie P., South Bend, Ind. Automobile road maps. Serial No. 639,875, Aug. 18. Class 38.

Drambuie Liqueur Co. Ltd., The, Edinburgh, Scotland. Distilled alcoholic liqueur. Serial No. 640,110, Aug. 18. Class 49.

Eddy Bakeries, Inc., Helena, Mont. Bread. Serial No. 561,736, Aug. 18. Class 46.

Elasti-Seal Marine Products, Inc., Oak Park, Ill. Row boats and outboard motor boats. Serial No. 590,737, Aug. 18. Class 19.

Electric Sprayit Company, The, Sheboygan, Wis. Pressure tanks. Serial No. 629,994, Aug. 18. Class 2.

Ellis (L. S.) Equipment Company: *See*—
Holmboe, Lawrence S.

Ergol Photochemical Research Limited, London, England. Chemical preparations. Serial No. 641,284, Aug. 18. Class 6.

Escudier, Anton F., Chicago, Ill. Telescopes and binoculars in the nature of toys. Serial No. 645,400–1, Aug. 18. Class 22.

Estey Piano Corp., Bluffton, Ind. Pianos. Serial No. 627,258, Aug. 18. Class 36.

Eutectic Welding Alloys Corporation, New York, N. Y. Resin containing composition for coating metal surfaces. Serial No. 630,486, Aug. 18. Class 16.

Eutectic Welding Alloys Corporation, New York, and Flushing, N. Y. Copper base alloy. Serial No. 643,146, Aug. 18. Class 14.

Evans, John R., & Company, Camden, N. J. Leather. Serial No. 631,657, Aug. 18. Class 1.

Faber-Castell, A. W., Pencil Co., Inc., Newark, N. J. Carbon paper, writing and drawing ink, typewriter ribbons, etc. Serial No. 639,027, Aug. 18. Class 11.

Fair, D. L., Lumber Company, Louisville, Miss. Finished lumber. Serial No. 640,394, Aug. 18. Class 12.

Fairchild Publications, Inc., New York, N. Y. Newspaper column or columns. Serial No. 644,106, Aug. 18. Class 38.

Fairfield Engineering Company, The, Marion, Ohio. Mixing machinery, hammermills, portable belt and drag conveyors and car unloaders, etc. Serial No. 639,816, Aug. 18. Class 23.

Family Flour Institute, Inc., Nashville, Tenn. Self-rising corn meal and self-rising corn meal mix. Serial No. 640,556, Aug. 18. Class 46.

Farmaceutici Italia S. A., Milan, Italy. Pharmacentical product. Serial No. 632,361, Aug. 18. Class 18.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Analgeaic and gastric sedative. Serial No. 615,634, Aug. 18. Class 18.

Foster, Benjamin, Company, Philadelphia, Pa. Lagging cloth and lagging tape. Serial No. 642,346, Aug. 18. Class 12.

Fox Head Brewing Co., Waukesha, Wis. Beer. Serial No. 643,213, Aug. 18. Class 48.

Frozen Food Age Publishing Co., Inc., New York, N. Y. Monthly publications. Serial No. 630,593, Aug. 18. Class 38.

Fry Brothers Co., The, Cincinnati, Ohio. Chemical compounds for dry cleaning. Serial No. 607,948, Aug. 18. Class 52.

Fuller, D. B., & Co. Inc., New York, N. Y. Textile fabrics. Serial Nos. 643,544–5, Aug. 18. Class 42.

Glanzstoff-Courtaulds G. m. b. H., Koln-Merheim, Germany. Yarns. Serial No. 635,962, Aug. 18. Class 43.

Graham, Von B., doing business as The Texas Ledge Stone Co., Clarksville, Ark. Building stone. Serial No. 639,698, Aug. 18. Class 12.

Griess-Pfleger Tanning Co., The, Waukegan, Ill. Leather. Serial No. 641,203, Aug. 18. Class 1.

Gustin-Bacon Manufacturing Company, Kansas City, Mo. Aconstical insulation. Serial No. 644,031, Aug. 18. Class 12.

Hamilton Watch Company, Lancaster, Pa. Watches. Serial No. 620,210, Aug. 18. Class 27.

Haskell, Charles C., & Co., Inc., Richmond, Va. Medicinal preparation. Serial No. 642,032, Aug. 18. Class 18.

Hempel's, J. C., Skibsfarvefabrik, A/S, Copenhagen, Denmark. Paints and varnishes. Serial No. 631,735, Aug. 18. Class 16.

Herbert George Co., Chicago, Ill. Cameras and parts thereof. Serial No. 627,125, Aug. 18. Class 26.

Herman, Charles, assignee: *See*—
National Cleanser Products Co., Inc.

Hewitt Soap Company, Inc., The, Dayton, Ohio. Sudsing cleaner, cleanser, and detergent. Serial No. 624,647, Aug. 18. Class 52.

Hill and Range Songs, Inc., Beverly Hills, Calif. Published musical compositions. Serial No. 643,229, Aug. 18. Class 38.

Holmboe, Lawrence S., doing business as Ells (L. S.) Equipment Company, Oklahoma City, Okla. Shores (for concrete forms); shore clamps, shore-heads; scaffolding clamps; etc. Serial No. 609,976, Aug. 18. Class 12.

Houbigant: *See*—
Houbigant, Inc.

Houbigant, Inc., doing business as Houbigant, New York, N. Y. Perfume, toilet water, lipstick, rouge, etc. Serial No. 638,419, Aug. 18. Class 51.

Howard Manufacturing Corporation, Council Bluffs, Iowa. Waterproof and airproof bags. Serial No. 641,725, Aug. 18. Class 2.

Hughes and Hatcher, Inc., Detroit, Mich. Men's assorted coats and pants. Serial No. 621,266, Aug. 18. Class 39.

Hunneman, John R., Jr., doing business under the name of Whattnspout Mfg. Co., Woburn, Mass. Combined toothbrush and water-deflecting recessed handle. Serial No. 610,691, Aug. 18. Class 29.

Incoro, Inc., Kingston, N. Y. Electric coffee roasters. Serial No. 643,763, Aug. 18. Class 21.

Industrial Wiping Cloth Co., Inc., Long Island City, N. Y. Industrial wiping cloths. Serial No. 637,776, Aug. 18. Class 29.

International Harvester Company, Chicago, Ill. Flux and solder. Serial No. 613,171, Aug. 18. Class 14.

International Paper Company, New York, N. Y. Paper bags. Serial No. 628,631, Aug. 18. Class 2.

Irwin, Neisler & Company, Decatur, Ill. Preparation to be administered intravenously for the relief of eclampsia, etc. Serial No. 643,038, Aug. 18. Class 18.

Ives-Cameron Company, Inc., New York, N. Y. Polyvitamins. Serial No. 641,842, Aug. 18. Class 18.

"J" Chemical Works, assignee: *See*—
National Cleanser Products Co., Inc.

Jasco Aluminum Products Corporation, New Hyde Park, N. Y. Aluminum storm windows and window screens and doors. Serial No. 642,476, Aug. 18. Class 12.

Justin, H. J., and Sons, Inc., Fort Worth, Tex. Collapsible cardboard insert for packing boots in boxes. Serial No. 635,266, Aug. 18. Class 2.

Kay Electric Company, Pine Brook, N. J. Instrument that is a narrow band sweeping oscillator. Serial No. 627,947, Aug. 18. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument that functions as a source of microwave signals. Serial No. 627,948, Aug. 18. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument for producing pulse widths. Serial No. 627,940, Aug. 18. Class 26.

Kay Electric Company, Pine Brook, N. J. Instrument that is a narrow-band sweeping oscillator. Serial No. 627,951, Aug. 18. Class 26.

Keasbey & Mattison Company, Ambler, Pa. Asbestos-cement sheets. Serial No. 643,595, Aug. 18. Class 12.

Kelley Manufacturing Company, Houston, Tex. Load transfer units. Serial No. 610,040, Aug. 18. Class 12.

Kentile, Inc., Brooklyn, N. Y. Floor tile. Serial No. 642,974, Aug. 18. Class 12.

Keuffel & Esser Company, Hoboken, N. J. Drafting ruling pens. Serial No. 616,323, Aug. 18. Class 26.

Knight, John P., doing business under the name and style of National Stellar Company, Detroit, Mich. Typewriter and adding machine ribbons, carbon paper, ink conducting wicks and holders therefor, etc. Serial No. 619,300, Aug. 18. Class 11.

Kochs Adlernaehmaschinen Werke, A. G., Bielefeld, Federal Republic of Western Germany. Domestic and industrial sewing machines and sewing machine attachments and parts thereof. Serial Nos. 615,261–2, Aug. 18. Class 23.

Koh-I-Noor, Spojene Kovoprumysalove Zavody, Narodni Podnik, also named Koh-I-Noor, United Metalware Factories, National Corporation, Prague, Czechoslovakia. Closures and fasteners for wearing apparel, shoe rings, etc. Serial No. 610,564, Aug. 18. Class 40.

Koh-I-Noor, United Metalware Factories, National Corporation: *See*—
Koh-I-Noor, Spojene Kovoprumysalove Zavody, Narodni Podnik.

Kromex Corporation, Cleveland, Ohio. Canister sets, bread boxes, chef sets, etc. Serial No. 622,599, Aug. 18. Class 2.

Kurashiki Rayon Company Limited, Kurashiki, Japan. Synthetic yarns and filaments. Serial No. 632,652, Aug. 18. Class 43.

Laboratoires Laroche Navarron, Levallois-Perret, Seine, France. Pharmaceutical products. Serial No. 615,982, Aug. 18. Class 18.

Lacey Plywood Company, Inc., Lacey, Wash. Plywood and plywood blocks. Serial No. 637,053, Aug. 18. Class 12.

Lally Column Co., Cambridge, Mass. Building columns. Serial No. 640,862, Aug. 18. Class 12.

Lambert Company, The, St. Louis, Mo. Medicated mouthwash. Serial No. 643,232, Aug. 18. Class 18.

Leonards, Fort Worth, Tex. Refrigerators and freezers. Serial No. 633,775, Aug. 18. Class 31.

Libn, Manuel M., doing business as Clementon Hosiery Mill, Clementon, N. J. Ladies' nylon hosiery. Serial No. 616,915, Aug. 18. Class 39.

Lincoln Laboratories, Inc., Decatur, Ill. Composition for treatment of burns, etc. Serial No. 642,668, Aug. 18. Class 18.

Lind, Farris C., Boise, Idaho. Gasoline filling station services. Serial No. 630,422, Aug. 18. Class 103.

Logan Seed Company, Inc., The, Gilliam, La. Seed corn and cotton seed. Serial No. 629,804, Aug. 18. Class 1.

Luber-Finer Incorporated, Los Angeles, Calif. Replaceable filter elements. Serial No. 622,834, Aug. 18. Class 31.

Lucky Tiger Manufacturing Co., Kansas City, Mo. Hair dressing and conditioner. Serial No. 642,073, Aug. 18. Class 51.

Lumin Sales Corporation, New York, N. Y. Cleaner and a wash in liquid form for cleaning metal, lacquered and painted surfaces. Serial No. 636,989, Aug. 18. Class 52.

Luriline Products Company, Woodmere, N. Y. Hypodermic syringes. Serial No. 630,602, Aug. 18. Class 44.

Lyon Metal Products, Incorporated, Aurora, Ill. Storage lockers; parts of and accessories for storage lockers, etc. Serial No. 570,974 Aug. 18. Class 32.

Lyons-Magnus, Inc., San Francisco, Calif. Root beer syrup for making carbonated beverages, etc. Serial No. 607,086, Aug. 18. Class 45.

Mallard Pencil Co. Inc., Georgetown, Ky. Wood cased lead pencils. Serial No. 626,807, Aug. 18. Class 37.

Mangels, Arthur C., Industries, Philadelphia, Pa. Paint enamels. Serial No. 601,330, Aug. 18. Class 16.

Marcalus Manufacturing Co. Inc., East Paterson, N. J. Paper tissue handkerchiefs. Serial No. 621,475, Aug. 18. Class 37.

Maryland Baking Company, The, Baltimore, Md. Ice cream cones. Serial No. 635,483, Aug. 18. Class 46.

McCabe, Walter A., doing business as Walter A. McCabe Company, East Haddam, Conn. Transparent plastic covers. Serial No. 625,429, Aug. 18. Class 37.

McCabe, Walter A., Company: *See*—
McCabe, Walter A.

Mead Johnson & Company, Evansville, Ind. Pharmaceutical preparations. Serial No. 634,985, Aug. 18. Class 18.

Meredith Publishing Company, Des Moines, Iowa. Magazine section. Serial No. 640,349, Aug. 18. Class 38.

Michaels & Co., Inc., Brooklyn, N. Y. Horological instruments. Serial No. 636,990, Aug. 18. Class 27.

Mikulas, M. M., doing business under the name of Mylans, San Francisco, Calif. Hair oil, an all purpose skin cream, toilet water, etc. Serial No. 638,008, Aug. 18. Class 51.



Milliway Knitting Mills, Inc., Milliway, Pa. Ladies' hosiery. Serial No. 641,318, Aug. 18. Class 39.

Moore, Benjamin, & Co., New York, N. Y. Stains and enamels. Serial No. 631,362, Aug. 18. Class 16.

Moore, Clark, doing business as Asphalt Maintenance Company, New York, N. Y. Road maintenance equipment. Serial No. 639,766, Aug. 18. Class 23.

Morganton Furniture Company, Morganton, N. C. Dining room furniture, and bedroom furniture. Serial No. 631,627, Aug. 18. Class 32.

Mylans: *See*—
Mikulas, M. M.

National Cine Equipment, Inc., New York, N. Y. Combined television and motion picture camera dolly and hydraulic lift. Serial No. 617,671, Aug. 18. Class 26.

National Cleanser Products Co., Inc., assignor to C. Herman, doing business as "J" Chemical Works, New York, N. Y. Alkali cleanser. Serial Nos. 638,151–2, Aug. 18. Class 52.

National Silver Company, New York, N. Y. China dinnerware. Serial No. 635,231, Aug. 18. Class 30.

National Stellar Company: *See*—
Knight, John P.

National Superior Fur Dressing & Dyeing Co., Chicago, Ill. Cleaning furs, fur garments and the linings thereof. Serial No. 634,702, Aug. 18. Class 103.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. Serial No. 642,157, Aug. 18. Class 42.

Nips, Inc., New York, N. Y. Solutions of smelling salts. Serial No. 607,759, Aug. 18. Class 18.

Nuclear Development Associates, Inc., White Plains, N. Y. Technical research, development, design and consultant services. Serial No. 607,295, Aug. 18. Class 100.

Nuodex Products Co. Inc., Elizabeth, N. J. Driers for ready mixed paints, enamels, varnishes, etc. Serial No. 636,860, Aug. 18. Class 16.

Overseas Finance & Trading Company Inc., San Francisco, Calif. Cameras, microscopes, lenses, etc. Serial No. 619,400, Aug. 18. Class 26.

Palmeter's Limited, Kentville, Nova Scotia, Canada. China tableware. Serial No. 642,366, Aug. 18. Class 30.

Paragon Oil Company, Inc., Brooklyn, N. Y. Lubricating oil. Serial No. 643,059, Aug. 18. Class 15.

Pedigreed Seed Co., New York, N. Y. Lawn grass seed. Serial No. 607,349, Aug. 18. Class 1.

Penick, S. B., & Company, New York, N. Y. Bulk feed supplement. Serial No. 634,706, Aug. 18. Class 18.

Peridome, Ltd., New York, N. Y. Optical instrument. Serial No. 641,963, Aug. 18. Class 26.

Pfeiffer, S., Manufacturing Co., St. Louis, Mo. Medicinal tonic. Serial No. 640,049, Aug. 18. Class 18.

Pfister & Vogel Tanning Co., Milwaukee, Wis. Shoe side upper leather. Serial No. 629,910, Aug. 18. Class 1.

Pioneer Steel Ball, Incorporated, Unionville, Conn. Finished metal bearing balls. Serial No. 623,984, Aug. 18. Class 23.

Playnurse, Inc., Baltimore, Md. Children's suits and dresses. Serial No. 630,910, Aug. 18. Class 39.

Pope Laboratories: *See*—
Capital Drug Company.

Poznak, Murray P., doing business as Acrolite International, Elizabeth, N. J. Acrylic plastic. Serial No. 634,911, Aug. 18. Class 16.

Prairie Farmer Publishing Company, The, Chicago, Ill. Department or section of a periodical publication. Serial No. 633,376, Aug. 18. Class 38.

Products Exchange Company, Inc., New York, N. Y. Horological instruments. Serial No. 637,302, Aug. 18. Class 27.

Progressive Products Company, Hollywood, Calif. Game. Serial No. 647,720, Aug. 18. Class 22.

Radiant Manufacturing Corporation, Chicago, Ill. Glass beaded fabrics used in cut sizes as motion picture projection screens. Serial No. 632,100, Aug. 18. Class 26.

Ranco Incorporated, Columbus, Ohio. Temperature responsive mechanism for controlling automatic refrigerators, temperature responsive mechanism for controlling heaters, etc. Serial No. 622,557, Aug. 18. Class 26.

Realistic Company, The, Cincinnati, Ohio. Preparation for use in hair waving. Serial No. 628,125, Aug. 18. Class 51.

Redwood Sales Company, San Francisco, Calif. Lumber. Serial Nn. 617,554, Aug. 18. Class 12.

Rheem Manufacturing Company, Richmond, Calif. Gas water heaters. Serial No. 642,993, Aug. 18. Class 34.

Rider, John F., Publisher, Inc., New York, N. Y. Technical manuals and replacement and insert parts therefor. Serial No. 627,900, Aug. 18. Class 38.

Robinson Clay Products Co., The, Akron, Ohio. Refractory bricks and blocks. Serial No. 642,243, Aug. 18. Class 12.

Roma Wine Company: *See*—
Schenley Industries, Inc.

Schadler, Hans, Ellendorf, Germany. Sewing machines and parts therefor. Serial No. 641,252, Aug. 18. Class 23.

Schenley Import Corporation, New York, N. Y. Wines. Serial No. 628,224, Aug. 18. Class 47.

Schenley Industries, Inc., also doing business as Roma Wine Company, doing business as Triangle Vineyards, New York, N. Y. Wines. Serial No. 641,695, Aug. 18. Class 47.

Scholastic Corporation, New York, N. Y. Weekly scholastic periodical. Serial No. 641,093, Aug. 18. Class 38.

Schwartz, Morris, & Sons, Inc., New York, N. Y. Woven textile fabrics. Serial No. 613,426, Aug. 18. Class 42.

Scott, O. M., & Sons Company, Marysville, Ohio. Field, garden, lawn, and grass seeds. Serial No. 641,577, Aug. 18. Class 1.

Scott, O. M., & Sons Company, Marysville, Ohio. Field, garden, lawn, and grass seeds. Serial No. 641,805, Aug. 18. Class 1.

Sears, Roebuck and Co., Chicago, Ill. Vitamin capsules. Serial No. 639,837, Aug. 18. Class 18.

Sears, Roebuck and Co., Chicago, Ill. Arbors, pergolas, trellises, etc. Serial No. 640,587, Aug. 18. Class 12.

Seliatrom Manufacturing Company, Chicago, Ill. Industrial and sporting goggles, spectacles, welders' helmets, etc. Serial No. 618,254, Aug. 18. Class 26.

Serta Associates, Inc., Wilmington, Del., and Chicago, Ill. Mattresses. Serial Nos. 633,634–5, Aug. 18. Class 32.

Sheller Manufacturing Corporation, Chicago, Ill. Friction tape. Serial No. 634,122, Aug. 18. Class 5.

Shelton, Rubye B., doing business under the name of Alilto Mfg. Co., Houston, Tex. Cocomnt oil detergent shampoo. Serial No. 628,130, Aug. 18. Class 52.

Shore Line Industries, Inc., Clinton, Conn. Refrigerator bags and bag ties. Serial No. 627,978, Aug. 18. Class 2.

Simpson Laboratories, Inc., New York, N. Y. Therapentic drug. Serial No. 630,967, Aug. 18. Class 18.

Smith-Dorsey Company, The, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill. Enzyme inhibitor for rectal application. Serial No. 608,478, Aug. 18. Class 18.

Smith, Lawrence H., Washington, D. C. Newsletter. Serial No. 643,257, Aug. 18. Class 38.

Smyth, H. M., and Company Limited, Belfast, Northern Ireland. Textile piece goods. Serial No. 643,618, Aug. 18. Class 42.

South-Western Publishing Co., Cincinnati, Ohio. Workbooks. Serial No. 632,801, Aug. 18. Class 37.

Spencer, Richard L., East Mansfield, Ohio. Internal medical preparation. Serial No. 640,815, Aug. 18. Class 18.

Sprayo-Flake Company, Chicago, Ill. Fibrous materials for use in thermal and acoustical insulation, and adhesives and binders. Serial No. 614,854, Aug. 18. Class 12.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Starting fuel. Serial No. 642,174, Aug. 18. Class 15.

Standard Packaging Corporation, Chicago, Ill. Liquid tight paper cans and paper cartons. Serial No. 642,782, Aug. 18. Class 2.

Standard Pressed Steel Co., Jenkintown, Pa. Cabinet work benches, shaft connlings, shaft bearings (riamp box), etc. Serial No. 635,938, Aug. 18. Class 23.

Star Time Production Corporation, New York, N. Y. Advertising the goods and services of others. Serial No. 642,053 Aug. 18. Class 101.

Steel City Manufacturing Company, The, Youngstown, Ohio. Newspaper rural delivery route tubes and newspaper sales honor boxes. Serial No. 636,257, Aug. 18. Class 2.

Stern Brothers, New York, N. Y. Umbrellas, parasols, and canes. Serial No. 639,505, Aug. 18. Class 41.

Stern Brothers, New York, N. Y. Bath towels, bath mats, dish towels, etc. Serial No. 639,506, Aug. 18. Class 42.

Tanasig, Rena R., Chicago, Ill. Envelope type merchandise cases. Serial No. 635,499, Aug. 18. Class 2.

Temp Resisto Corporation, New York, N. Y. Insulating textile fabric. Serial No. 631,227, Aug. 18. Class 42.

Texas Ledge Stone Co., The: *See*—
Graham, Von B.

Timber Engineering Company, Washington, D. C. Metal timber connectors. Serial No. 644,199, Aug. 18. Class 12.

Transcograph, Incorporated, Minneapolis, Minn. Jaw recorder and duplicator. Serial No. 630,241, Aug. 18. Class 44.

Travenol Laboratories, Inc., Morton Grove, Ill. Containers for containment and dispensation of parenteral fluids, and tubes equipped with needles and needle adapters, etc. Serial No. 632,637, Aug. 18. Class 44.

Tremmel, August, & Son: *See*—
Tremmel, Louis A.

Tremmel, Louis A., doing business as August Tremmel & Son, Biloxi, Miss. Roofing devices. Serial No. 600,092, Aug. 18. Class 12.

Triangle Vineyards: *See*—
Schenley Industries, Inc.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 642,912, Aug. 18. Class 18.

Van der Gaast, H., & Co.: *See*—
Van der Gaast, Harry.

Van der Gaast, Harry, doing business as H. van der Gaast & Co., Miami, Fla. Glass jalousie windows and doors. Serial No. 638,025, Aug. 18. Class 12.

Walking Meal, Inc., Erie, Pa. Paperboard boxes. Serial No. 642,502, Aug. 18. Class 2.
Wandee Company, The, assignee: *See*—
Smith, Dorsey Company, The.
Weld, Maria F., doing business as The Creative Workshop, Watertown, assignee to H. Berkowitz, Brookline, Mass. Miniature gardens, miniature landscapes, and miniature scenes, containing real plant life. Serial No. 622,682. Aug. 18. Class 1.
Western Products Incorporated, Newark, Ohio. Plastic bags. Serial No. 628,135, Aug. 18. Class 2.
Whattaspout Mfg. Co.: *See*—
Hunneman, John R., Jr.
Whitehall Pharmacal Company, New York, N. Y. Analgesic cream. Serial No. 640,246, Aug. 18. Class 18.
Wick, Philip, Company, Inc., New York, N. Y. Acetate, rayon, nylon, cotton and elastic nettings. Serial Nos. 631,907–8, Aug. 18. Class 42.
Williams, Joseph, Limited, London, England. Type of violin for use of children learning to play the violin. Serial No. 634,012, Aug. 18. Class 36.
Winthrop-Steacna Inc., New York, N. Y. Aerosol inhalation. Serial No. 642,193, Aug. 18. Class 18.
Wundies, Inc., Williamsport, Pa. Children's and girls' slips, panties, robes, etc. Serial No. 644,205, Aug. 18. Class 39.
Yankee Homecrafts: *See*—
Circoli, Anthony J.
Zokal Soldering Tip Sales, Chicago, Ill. Electric soldering irons and tips. Serial No. 628,318, Aug. 18. Class 21.

# LIST OF REGISTRANTS OF TRADE-MARKS

Accounting Forms, Inc., Chicago, Ill. Accounting boards or board binders. 578,724, Aug. 18; Serial No. 589,293, published Apr. 26, 1953. Class 37.
Acme Backing Corporation, Brooklyn, N. Y. Processed fabric, backing material. 302,838, May 2, 1933. Republished Aug. 18. Class 42.
Acme Beverage Company, Wilkes-Barre, Pa. Maltless soft drinks and carbonated waters. 578,960, Aug. 18; Serial No. 637,291. Class 45.
Adam Hat Stores, Inc., New York, N. Y. Men's and boys' hats and caps, dress shirts, outer and under shirts, etc. 578,815, Aug. 18; Serial No. 629,758, published May 19, 1953. Class 39.
Adam Hat Stores, Inc., New York, N. Y. Men's and boys' hats and caps, dress shirts, outer and under shirts, etc. 578,865, Aug. 18; Serial No. 636,505, published May 19, 1953. Class 39.
Air Carrier Engine Service, Inc., Miami, Fla. Repairing, servicing, and maintaining aircraft engines and component parts of aircraft and aircraft engines. 578,021, Aug. 18; Serial No. 633,027, published May 19, 1953. Class 103.
Airline Luggage Shop, New York, N. Y. Valises, trunks, suitcases, etc. 578,819, Aug 18; Serial No. 630,370, published May 26, 1953. Class 3.
Aktiebolaget Bofors, Bofors, Sweden. Chemical preparations for treatment of fresh and preserved foodstuffs. 578,730, Aug. 18; Serial No. 600,938, published May 19, 1953. Class 46.
Allied Chemical & Dye Corporation: *See*—
Barrett Company, The.
Warren Chemical & Manufacturing Company.
Allis, Louis, Company, The, Milwaukee, Wis. Promotional periodical. 578,874. Aug. 18; Serial No. 637,230, published May 19, 1953. Class 38.
Alther, John W., Washington, D. C. Dry, ready-mixed concrete. 578,842. Aug. 18; Serial No. 634,315, published May 12, 1953. Class 12.
Alton Box Board Company, Alton, Ill. Paperboard. 578,849, Aug. 18; Serial No. 635,114, published Apr. 7, 1953. Class 37.
American Field Seed Co.: *See*—
Berry Seed Company.
American Locomotive Company, New York and Schenectady, N. Y. Diesel-electric locomotives. 578,774, Aug. 18; Serial No. 623,578, published May 19, 1953. Class 21.
American Machine and Foundry Company, New York, N. Y. Electrically operated foul detecting and indicating apparatus. 578,718, Aug. 18; Serial No. 579,160, published May 19, 1953. Class 21.
American Meter Company, New York, N. Y. Gas meters and parts of gas meters. 578,710, Aug. 18; Serial No. 533,828, published Apr. 7, 1953. Class 26.
American Meter Company, New York, N. Y. Gas meters and parts of gas meters. 578,711, Aug. 18; Serial No. 541,489, published Apr. 7, 1953. Class 26.
American Smelting and Refining Company: *See*—
Great Western Smelting & Refining Co.
Anderson Household Scooter Products: *See*—
Anderson, Lacy.
Anderson, Lacy, doing business as Anderson Household Scooter Products, Barberton, Ohio. Scooter designed for use in the household. 578,854, Aug. 18; Serial No. 635,895, published May 26, 1953. Class 19.
Andrew Corporation, Chicago, Ill. Electrical equipment and tower lighting equipment. 578,715, Aug. 18; Serial No. 567,482, published May 19, 1953. Class 21.
Andrews, O. B., Company, Chattanooga, Tenn. Paperboard folding cartons. 578,908, Aug. 18; Serial No. 640,774, published May 26, 1953. Class 2.
Angelica Uniform Company, St. Louis, Mo. Wearing apparel. 578,857. Aug. 18; Serial No. 636,108, published May 26, 1953. Class 39.
Ansehl, Benjamin, doing business as Benjamin Ansehl Co., assignee to The Benjamin Ansehl Company, to The Benjamin Ansehl Company, St. Louis, Mo. Hand lotions, face lotions, perfumes, etc. 304,978, renewed July 25, 1953. O. G. Aug. 18. Class 51.
Ansehl, Benjamin, Co.: *See*—
Ansehl, Benjamin.
Ansehl, Benjamin, Company, The, assignee: *See*—
Ansehl, Benjamin.
Auvil Brand, Incorporated, High Point, N. C. Men's and boys' sportswear. 578,787, Aug. 18; Serial No. 625,326, published May 19, 1953. Class 39.
Apparel Arts Publications, Inc., to Esquire, Inc., Chicago, Ill. Publication. 307,098, renewed Oct. 17, 1953. O. G. Aug. 18. Class 38.
Atlantic Products Corporation, Trenton, N. J. Garment bags. 578,926, Aug. 18; Serial No. 597,490. Class 2.
Auburn Foundry, Inc., Auburn, Ind. Stokers. 306,507, renewed Sept. 19, 1953. O. G. Aug. 18. Class 84.
Averys of Bristol Limited, Bristol, England. Wines. 578,922, Aug. 18; Serial No. 582,517. Class 47.
Bagdasarian, Richard, & Co., Thermal, Calif. Fresh grapes. 578,835, Aug. 18; Serial No. 633,407, published May 26, 1953. Class 46.
Baird-Taylor, Limited, to Baird-Taylor Limited, Glasgow, Scotland. Whisky. 306,523, renewed Sept. 19, 1953. O. G. Aug. 18. Class 49.
Barr, W. M., & Company, Memphis, Tenn. Concentrated chemical used either for the cleaning of metal surfaces or for the removal of rust therefrom prepacatory to painting. 578,933, Aug. 18; Serial No. 613,492. Class 52.
Barrett Company, The, to Allied Chemical & Dye Corporation, New York, N. Y. Building paper. 304,052, renewed June 20, 1953. O. G. Aug. 18. Class 12.
Barwick, E. T., Mills: *See*—
Barwick, Eugene T.
Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Rayon carpeting and cotton carpeting. 578,901, Aug. 18; Serial No. 639,800, published May 26, 1953. Class 42.
Beaupré & Co.: *See*—
Pellisson Pere & Cie.
Beck, A. S., Shoe Corporation, New York, N. Y. Men's and women's shoes and slippers. 578,852, Aug. 18; Serial No. 635,457, published May 19, 1953. Class 39.
Bedell, Berkley W., doing business as Berkley Fly Company, Spirit Lake, Iowa. Snelled hooks and fishing leaders. 578,911. Aug. 18; Serial No. 641,267, published May 26, 1953. Class 22.
Beiersdorf, P., & Co., Hamburg, Germany, to Duke Laboratories, Inc., Stamford, Conn. Cosmetic powder, cosmetic paste and preparations for the hair. 93,827, re-renewed Oct. 7, 1953. O. G. Aug. 18. Class 51.
Belk's Buying Service, Inc., Charlotte, N. C. Ladies' shoes. 578,814, Aug. 18; Serial No. 629,716, published May 19, 1953. Class 39.
Benis Bro. Bag Company, St. Louis, Mo. Paper bags. 578,930, Aug. 18; Serial No. 610,496. Class 2.
Benbow Manufacturing Co., Burlingame, Calif. Electric trolley conductors, collectors and insulating sheathing. 578,786, Aug. 18; Serial No. 625,090, published May 26, 1953. Class 21.
Ben-Hur Products, Inc., New York, N. Y. Hair goods. 578,956, Aug. 18; Serial No. 633,410. Class 40.
Bennett, Louis H., La Porte, Ind. Plastic refrigerator dishes. 578,925, Aug. 18; Serial No. 592,539. Class 2.
Berkley Fly Company: *See*—
Bedell, Berkley W.
Bercy Seed Company, and also doing business under the following names, Griswold Seed Co., Mid-Continent Seeds Inc., Standard Seed and Feed Company, Standard Seed Co., and American Field Seed Co., Clarinda, Iowa. Farm, vegetable, and flower seeds. 575,112, June 2, 1953. Corrected. O. G. Aug. 18. Class 1.
Best & Co. Inc., New York, N. Y. Clothing. 578,720, Aug. 18; Serial No. 583,319, published May 10, 1953. Class 39.
Bethlehem Steel Company, Bethlehem, Pa. Galvanized steel sheets. 578,870, Aug. 18; Serial No. 637,105, published May 26, 1953. Class 14.
Big Jack Manufacturing Company, Inc., Bristol, Va. Men's and boys', ladies' and children's dungarees, pants, blue jeans, etc. 578,772, Aug. 18; Serial No. 622,293, published May 19, 1953. Class 39.



Blair Corset Company, Inc., Chicago, Ill. Corsets, girdles, knitted step-ins, etc. 578,769, Aug. 18; Serial No. 621,810, published May 26, 1953. Class 39.
Block, H. & J., Inc., New York, N. Y. Infants' and children's wear. 578,866, Aug. 18; Serial No. 636,509, published May 5, 1953. Class 39.
Blue Bell, Inc., Greensboro, N. C. Men's work pants. 578,962, Aug. 18; Serial No. 639,615. Class 39.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 304,449, renewed July 11, 1953. O. G. Aug. 18. Class 42.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 306,506, renewed Sept. 19, 1953. O. G. Aug. 18. Class 42.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 307,545, renewed Oct. 31, 1953. O. G. Aug. 18. Class 42.
Boegli, Elmer E., Charleston, S. C. Column appearing in a periodical or trade magazine. 578,722, Aug. 18; Serial No. 586,787, published May 19, 1953. Class 38.
Bogen, John S., doing business as Engineering Research and Development Company, Addison, Ill. Automatic laboratory balances; tachometers; speedometers; etc. 578,862, Aug. 18; Serial No. 636,460, published Apr. 14, 1953. Class 26.
Borden Company, The, New York, N. Y. Evaporated milk. 578,714, Aug. 18; Serial No. 567,067, published May 19, 1953. Class 46.
Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 578,871, Aug. 18; Serial No. 637,168, published May 26, 1953. Class 39.
Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 578,872, Aug. 18; Serial No. 637,170, published May 26, 1953. Class 39.
Botany Mills, Inc.: *See*—
Botany Worsted Mills.
Botany Worsted Mills, by Botany Mills, Inc., Passaic, N. J. Lanolin soap. 420,206, Apr. 2, 1946. Republished Aug. 18. Class 52.
Bretter, Harry R., Inc., New York, N. Y. Women's and misses' woolen, cotton, and rayon suits. 578,800, Aug. 18; Serial No. 627,670, published May 19, 1953. Class 39.
Brevitt Shoes Limited, Leicester, England. Boots, shoes and slippers. 578,758, Aug. 18; Serial No. 619,491, published May 19, 1953. Class 39.
Brevitt Shoes Limited, Leicester, England. Boots, shoes and slippers. 578,760, Aug. 18; Serial No. 619,799, published May 19, 1953. Class 39.
Brevitt Shoes Limited, Leicester, England. Boots, bootees, shoes, etc. 578,790, Aug. 18; Serial No. 626,365, published May 19, 1953. Class 39.
Brillo Manufacturing Company, Inc., Brooklyn, N. Y. Cleanser. 578,965, Aug. 18; Serial No. 640,837. Class 4.
Bristol-Myers Company, Brooklyn and New York, to Bristol-Myers Company, New York, N. Y. Tonic laxative, laxative, cathartic, etc. 91,642, re-renewed May 20, 1953. O. G. Aug. 18. Class 18.
British Pens Limited, Smethwick, Birmingham, England. Pencils. 578,855. Aug. 18; Serial No. 635,899, published Apr. 14, 1953. Class 37.
Broadcasting Publications, Inc., Washington, D. C. Periodicals. 578,850, Aug. 18; Serial No. 635,170, published May 19, 1953. Class 38.
Broitman-Gaffin Shoes, Inc., New York, N. Y. Women's and children's shoes. 578,875. Aug. 18; Serial No. 637,236, published May 19, 1953. Class 39.
Brookfield Orchards, Inc., North Brookfield, Mass. Fresh apples. 578,785, Aug. 18; Serial No. 624,997, published May 26, 1953. Class 46.
Brown & Ackerman, Inc., New York, N. Y. Cotton sateen fabrics. 578,732, Aug. 18; Serial No. 601,196, published May 26, 1953. Class 42.
Brown Shoe Company, Inc., St. Louis, Mo. Women's shoes. 578,882, Aug. 18; Serial No. 637,859, published May 19, 1953. Class 39.
Bucomin Company, The, to Calgon, Inc., Pittsburgh, Pa. Water softening and water conditioning chemical. 306,582, renewed Sept. 26, 1953. O. G. Aug. 18. Class 6.
Butler Manufacturing Company, Kansas City, Mo. Preformed relatively rigid panels of translucent sheet material for use as exterior siding and roofing. 578,927, Aug. 18; Serial No. 598,883. Class 12.
C. G. S. Laboratories, Inc., Stamford, Conn. Variable inductors. 578,745, Aug. 18; Serial No. 613,361. published May 26, 1953. Class 21.
Calgon, Inc.: *See*—
Buromin Company, The.
Carvel, Thomas, New York, N. Y. Frozen custards, ice creams and ices. 578,937, Aug. 18; Serial No. 620,398. Class 46.
Central Soya Company, Inc., Fort Wayne, Ind. Nutritious ration feed. 578,776, Aug. 18; Serial No. 624,263, published May 19, 1953. Class 46.
Chain Belt Company, Milwaukee, Wis. Pumps. 304,962, renewed July 25, 1953. O. G. Aug. 18. Class 23.
Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo., to F. B. Chamberlain Company, St. Louis, Mo. Powder compound in various fruit flavors. 301,256, renewed Feb. 21, 1953. O. G. Aug. 18. Class 45.
Chapman Valve Manufacturing Company, The, Springfield, Mass. Surface hardening steel production parts of others. 578,916, Aug. 18; Serial No. 613,902, published May 19, 1953. Class 106.
Chemische Werke Albert, Wiesbaden-Kastel (Amoneburg), Germany. Conditioning agent for enhancing the binding or emulsifying quality of meat, etc. 578,771, Aug. 18; Serial No. 622,052, published May 19, 1953. Class 46.
Chemtox Company, Ltd., Honolulu, Hawaii. Chemical extermination and eradication of termites. 578,920, Aug. 18; Serial No. 631,268, published May 19, 1953. Class 103.
Chernoy, Eugene, Ocean Park, Calif. Electrical lamps, lamp shades and lighting fixtures. 578,780, Aug. 18; Serial No. 624,526, published May 19, 1953. Class 21.
Chicken Delight Inc., Rock Island, Ill. Packaged food product. 578,807–8, Aug. 18; Serial Nos. 628,846–7, published Oct. 7, 1952. Class 46.
China Doll Company: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.
Cia. Anma. Toddy Venezolana, Caracas, Venezuela. Canned fruit juices and frozen fruit juices. 578,825, Aug. 18; Serial No. 631,517, published May 26, 1953. Class 46.
Citrus Juice & Flavor Co., Ltd., Los Angeles, to Citrus Juice & Flavor Co. Ltd., Santa Ana, Calif. Non-alcoholic, maltless beverages. 303,420, renewed May 23, 1953. O. G. Aug. 18. Class 45.
City Stores Company, Philadelphia, Pa. Ladies' coats and suits. 578,860, Aug. 18; Serial No. 636,341, published May 26, 1953. Class 39.
Clement & Ball Shoe Mfg. Co., Inc., of Baltimore City, Baltimore, Md. Leather shoes. 578,788, Aug. 18; Serial No. 621,753, published May 19, 1953. Class 39.
Cline, W. M., Company, Chattanooga, Tenn. Lamp shades. 578,832, Aug. 18; Serial No. 633,350, published May 19, 1953. Class 21.
Cochran Foil Company, doing business as Cochran Foil Products Co., Louisville, Ky. Aluminum foil. 578,913, Aug. 18; Serial No. 641,500, published May 26, 1953. Class 14.
Cochran Foil Products Co.: *See*—
Cochran Foil Company.
Cohn Hall Marx Co., to United Merchants and Manufacturers, Inc., New York, N. Y. Silk piece goods. 305,247, renewed Aug. 8, 1953. O. G. Aug. 18, 1953. Class 42.
Coleman, Marion J., doing business as Coleman's Hot Sauce Company, Florence, S. C. Sauce. 578,715, Aug. 18; Serial No. 559,500, published Nov. 1, 1949. Class 46.
Coleman's Hot Sauce Company: *See*—
Coleman, Marion J.
Colton Press, Inc., New York, N. Y. Publication. 578,893, Aug. 18; Serial No. 639,264, published May 26, 1953. Class 38.
Columbia Plywood Co., Seattle, Wash. Grooved hardboard laminated with plywood. 578,841, Aug. 18; Serial No. 634,435, published May 12, 1953. Class 12.
Conklin, Charles F., South Gate, Calif. Mattresses. 578,959, Aug. 18; Serial No. 636,924. Class 32.
Connor Lumber and Land Company, The, Marshfield, Wis. Wooden flooring. 578,845, Aug. 18; Serial No. 634,732, published May 12, 1953. Class 12.
Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes. 578,826, Aug. 18; Serial No. 631,919, published May 26, 1953. Class 19.
Container Corporation of America, Chicago, Ill. Paperboard shipping cases. 578,957, Aug. 18; Serial No. 635,686. Class 2.
Continental and Overseas Organisation Limited, assignee: *See*—
Layton, George L.
Converted Rice, Inc., Houston, Tex. Rice. 578,663, Aug. 18; Serial No. 636,466, published May 26, 1953. Class 46.
Corhart Refractories Company, Louisville, Ky. Refractory blocks, bricks, and bodies of special shape for furnaces. 578,778, Aug. 18; Serial No. 624,396, published May 12, 1953. Class 12.
Corona Chemical Company, Milwaukee, Wis., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Insecticides. 91,758, re-renewed May 27, 1953. O. G. Aug. 18. Class 6.
Cortland Line Company, Inc., Cortland, N. Y. Fish lines. 578,912, Aug. 18; Serial No. 641,440, published May 26, 1953. Class 22.
Crystal Tube Corporation, Chicago, Ill. Wrapping and packaging materials. 578,716, Aug. 18; Serial No. 575,124, published May 19, 1953. Class 37.
Daltoo, Inc., Cleveland, Ohio. Women's sweaters. 578,747, Aug. 18; Serial No. 614,425, published May 5, 1953. Class 39.
Dan River Mills, Incorporated, Danville, Va. Textile fabrics. 578,902, Aug. 18; Serial No. 639,921, published May 26, 1953. Class 42.
Dayton Bait Company, Dayton, Ohio. Floats used in fishing. 578,904, Aug. 18; Serial No. 640,036, published May 19, 1953. Class 22.
De Sanno, A. P., & Son, Inc., Phoenixville, Pa. Abrasive and grinding wheels. 406,946, May 9, 1944. Republished Aug. 18. Class 4.
Dixie Paint and Varnish Company, Inc., Brunswick, Ga. Ready mixed oil paints. 444,787, Aug. 18; Serial No. 521,440, published May 19, 1953. Class 16.

Dixon Lubricating Saddle Co., Bristol, R. I. Machine bearings. 578,944, Aug. 18; Serial No. 629,293. Class 23.

Dixon Lubricating Saddle Co., Bristol, R. I. Parts of a spinning frame, comprising bobbin holders, saddles, etc. 578,947, Aug. 18; Serial No. 629,844. Class 23.

Dollar, Robert, Co., The, San Francisco, Calif. Radio tubes, radio transmitters and receivers and parts therefor. 578,888–9, Aug. 18; Serial Nos. 638,526–7, published May 19, 1953. Class 21.

Doniger, Arthur, Paper Co., Inc., New York, N. Y. Writing paper, printing paper, cover paper, etc. 578,753, Aug. 18; Serial No. 616,414, published Apr. 28, 1953. Class 37.

Dorian Handbags, New York, N. Y. Handbags. 578,821, Aug. 18; Serial No. 630,833, published May 19, 1953. Class 3.

Duke Laboratories, Inc.: *See*—
Beiersdorf, P., & Co.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Optical view finders and supplementary lenses, etc. 578,739, Aug. 18; Serial No. 609,337, published Apr. 21, 1953. Class 26.

Edgcomb Steel Company, Philadelphia, Pa. Aluminum, brass, and steel wire, metal tubing stock, rods, etc. 578,890–1, Aug. 18; Serial Nos. 638,702–3, published May 19, 1953. Class 14.

Electrolux Corporation, Dover, Del., and New York, N. Y. Removable inserts for vacuum cleaner suction nozzles. 578,781, Aug. 18; Serial No. 624,594, published May 26, 1953. Class 21.

Engineering Research and Development Company: *See*—
Bogen, John S.

Epstein Garment Co., Inc., New York, N. Y. Ladies' dresses. 578,831, Aug. 18; Serial No. 633,303, published May 19, 1953. Class 39.

Esquire, Inc.: *See*—
Apparel Arts Publications, Inc.

Esl. Dunwoody Co., Philadelphia, Pa. Peat moss for poultry and animal bedding (poultry litter), peat moss for horticultural and floral use, etc. 305,616, renewed Aug. 22, 1953. O. G. Aug. 18. Class 1.

Fairchild Publications, Inc., New York, N. Y. Newspaper column or columns. 578,892, Aug. 18; Serial No. 639,214, published May 26, 1953. Class 38.

Falco Products Co., Philadelphia, Pa. Clothes drying racks. 578,791, Aug. 18; Serial No. 626,663, published May 12, 1953. Class 24.

Falco Products Co., Philadelphia, Pa. Clothes drying racks. 578,792, Aug. 18; Serial No. 626,734, published May 12, 1953. Class 24.

Fanny Farmer Candy Shops, Inc., Rochester, N. Y. Maple syrup, assorted fruits in corn syrup, raspberry jam, etc. 578,907, Aug. 18; Serial No. 640,676, published May 26, 1953. Class 46.

Figge & Hutzwelker Co., Glen Cove and New York, to Figge & Hutzwelker Co., New York, N. Y. Hams, bacon, lard, and sausages. 92,968–9, re-renewed Aug. 12, 1953. O. G. Aug. 18. Class 46.

Fil-Rite Company, The, Minneapolis, Minn. Grease pails or grease containers. 444,786, Aug. 18; Serial No. 505,026, published Apr. 7, 1953. Class 2.

Flav-Oak Manufacturing Company: *See*—
Shniderman, A.

Fleisher Yarns, Inc., Long Island City, N. Y. Worsted yarns, rayon yarns, cotton yarns, etc. 375,674, Feb. 27, 1940. Republished Aug. 18. Class 43.

"4711" Limited: *See*—
Muhlens & Kropff, Incorporated.

Gallo, Arthur, Chicago, Ill. Liquid preparation for dissolving and removing wax from and otherwise cleaning the ear molds of hearing aid devices. 578,946, Aug. 18; Serial No. 629,728. Class 52.

General Fire Extinguisher Company, to Grinnell Corporation, Providence, R. I. Automatic sprinkler systems. 303,911, renewed June 13, 1953. O. G. Aug. 18. Class 13.

General Sewing Corp., New York, N. Y. Suitcases and garment bags. 578,804, Aug. 18; Serial No. 628,150, published May 26, 1953. Class 3.

General Time Corporation: *See*—
Western Clock Co.
Western Clock Company.

Gernsback Publications, Inc., New York, N. Y. Monthly fiction magazine. 578,858, Aug. 18; Serial No. 636,230, published May 19, 1953. Class 38.

Geroux, Harvey, doing business under the definitions name and style of Harvey's Products, Los Angeles, Calif. Smoke flavored seasoning for meats. 578,783, Aug. 18; Serial No. 624,944, published May 19, 1953. Class 46.

Gibson, G. M., Corporation, Bellevue, Iowa. Clothes washing machines, clothes ironers, and mechanical clothes driers. 578,729, Aug. 18; Serial No. 600,772, published May 19, 1953. Class 24.

Globe-Wernicke Co., The, Norwood, Cincinnati, Ohio. Binding cases, deposit ticket files and supplies for same, etc. 578,725, Aug. 18; Serial No. 590,150, published Apr. 7, 1953. Class 37.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Pulleys and sheaves. 578,932, Aug. 18; Serial No. 612,539. Class 23.

Graton & Knight Company, Worcester, Mass. Children's cowboy and cowgirl outfits consisting of holster sets complete with toy guns and toy bullets. 578,837, Aug. 18; Serial No. 633,845, published May 26, 1953. Class 22.

Great Western Smelting & Refining Co., Chicago, Ill., to American Smelting and Refining Company, New York, N. Y. Babbitt and anti-friction metals. 94,177, renewed Nov. 11, 1953. O. G. Aug. 18. Class 14.

Green Life Products Company, Kansas City, Mo. Organically grown natural food. 578,887, Aug. 18; Serial No. 638,301, published May 19, 1953. Class 46.

Grinnell Corporation: *See*—
General Fire Extinguisher Company.

Griswold Seed Co.: *See*—
Berry Seed Company.

Grove Company, The, St. Louis, Mo. Storm coats. 578,859, Aug. 18; Serial No. 636,231, published May 5, 1953. Class 39.

H & H Sales & Mfg. Company, Pittsburgh, Pa. Casings for flash lights. 578,853, Aug. 18; Serial No. 637,922, published May 19, 1953. Class 21.

Haase, Wilbert W., Co., Forest Park, Ill. Asphaltic sealing composition. 578,935, Aug. 18; Serial No. 617,584. Class 12.

Hanson, Harvey E., doing business as Harvey E. Hanson Company, Paw Paw, Mich. Electrical testers. 578,818, Aug. 18; Serial No. 630,006, published Apr. 21, 1953. Class 26.

Hanson, Harvey E., Company: *See*—
Hanson, Harvey E.

Harvey Brothers, Swanton, Md. Potatoes. 578,876, Aug. 18; Serial No. 637,276, published May 26, 1953. Class 46.

Harvey's Products: *See*—
Geroux, Harvey.

Hat Corporation of America, Norwalk, Conn. Hats. 578,779, Aug. 18; Serial No. 624,409, published May 19, 1953. Class 39.

Hazzard, R. P., Co., Augusta, Maine, and Boston, Mass. Men's and boys' shoes. 578,803, Aug. 18; Serial No. 627,815, published May 19, 1953. Class 39.

Hearst Corporation, The, New York, N. Y. Cartoon or comic magazine. 578,746, Aug. 18; Serial No. 613,710, published May 12, 1953. Class 38.

Hellegers, Russell, Paterson, N. J. Narrowbeam spotlights, high intensity floodlighting, display lighting. 578,782, Aug. 18; Serial No. 624,829, published May 19, 1953. Class 21.

Hercules Cycle and Motor Company Limited, The, Birmingham, England. Pedal cycles and parts therefor. 578,846, Aug. 18; Serial No. 634,740, published May 26, 1953. Class 19.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., by Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes. 54,280, June 26, 1906. Republished Aug. 18. Class 25.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., by Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes. 54,710, June 26, 1906. Republished Aug. 18. Class 25.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., by Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes. 56,279, Sept. 4, 1906. Republished Aug. 18. Class 25.

Herring-Hall-Marvin Safe Company, Hamilton, Ohio, and New York, N. Y., by Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Safes. 56,287, Sept. 4, 1906. Republished Aug. 18. Class 25.

Heyer Industries Incorporated, Belleville, N. J. Electrical equipment. 578,833, Aug. 18; Serial No. 633,363, published May 19, 1953. Class 21.

Himmelstein, Irvan, New York, N. Y. Clothing: women's, juniors' and misses' suits and coats. 578,805, Aug. 18; Serial No. 628,273, published May 19, 1953. Class 39.

Hiss, John M., Los Angeles, Calif. Women's shoes. 578,744, Aug. 18; Serial No. 613,071, published May 19, 1953. Class 39.

Hoffmann-La Roche Inc., Nutley, N. J. Analgesic preparation. 305,528, renewed Aug. 22, 1953. O. G. Aug. 18. Class 18.

Holiday Frosted Food Co., assignor to R. S. Wolf, doing business as Holiday Frosted Food Co., Philadelphia, Pa. Frozen meats. 578,816, Aug. 18; Serial No. 629,945, published May 19, 1953. Class 46.

Hollywood Doll Manufacturing Co.: *See*—
Ippolito, Domenick.

Hopp Press, Inc., The, New York, N. Y. Moulded metal strips. 578,923, Aug. 18; Serial No. 590,365. Class 13.

Horton Manufacturing Company, Fort Wayne, Ind. Automatic laundry washing machines. 578,762–4, Aug. 18; Serial Nos. 619,969–71, published Apr. 14, 1953. Class 24.

Hospital Liquids, Inc., Chicago, Ill. Intravenous and subcutaneous solutions. 578,934, Aug. 18; Serial No. 617,031. Class 18.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand operated compression sprayers. 578,951, Aug. 18; Serial No. 630,935. Class 23.

Hutchings Brokerage Company: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.

Hutchings, Norman W., Jr.: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.

Hutchings, Norman W., Sr., and N. W. Hutchings, Jr., doing business under the names China Doll Company and Hutchings Brokerage Company, Mobile, Ala. Rice. 578,886, Aug. 18; Serial No. 638,288, published May 19, 1953. Class 46.



Huyck, F. C., & Sons: *See*—
Huyck, F. C., and Sons.

Huyck, F. C., & Sons, Rensselaer and Albany, to F. C. Huyck & Sons, Albany, N. Y. Bed blankets. 304,525, renewed July 11, 1953. O. G. Aug. 18. Class 42.

Huyck, F. C., and Sons, Rensselaer and Albany, to F. C. Huyck & Sons, Albany, N. Y. Bed-blankets and steamer-rugs. 92,428, re-renewed July 8, 1953. O. G. Aug. 18. Class 42.

Industrial Gloves Company, Danville, Ill. Industrial safety apparel, particularly thumb and finger guards. 578,721, Aug. 18; Serial No. 585,169, published Apr. 28, 1953. Class 37.

International Brotherhood of Electrical Workers, Washington, D. C. Electrical equipment and supplies. 442,826, June 7, 1949. Corrected. O. G. Aug. 18. Class 21.

Ippolito, Domenick, doing business as Hollywood Doll Manufacturing Co., Glendale, Calif. Dolls and doll clothes. 578,798, Aug. 18; Serial No. 627,339, published May 19, 1953. Class 22.

Jeffries, Edgar W., Guatemala City, Guatemala. Ladies' dresses and skirts. 578,931, Aug. 18; Serial No. 611,791. Class 39.

Kaynee Company, The, Cleveland, Ohio. Boys' outer T-shirts, dress shirts, sport shirts, etc. 578,793, Aug. 18; Serial No. 626,797, published May 19, 1953. Class 39.

Kerr, Raymond W., doing business as Kerrco Products, Hastings, Nebr. Window sills, casings and trim; door jambs, etc. 578,726, Aug. 18; Serial No. 591,370, published May 12, 1953. Class 12.

Kerrco Products: *See*—
Kerr, Raymond W.

Kershaw Manufacturing Company, Inc., Montgomery, Ala. Monthly periodical. 578,867, Aug. 18; Serial No. 636,568, published May 19, 1953. Class 38.

Keuffel & Esser Company, Hoboken, N. J. Measuring tapes. 578,712, Aug. 18; Serial No. 545,998, published Apr. 14, 1953. Class 26.

Kid-O-Boy Togs, Brooklyn, N. Y. Infants' and children's creepers, overalls, slacks, etc. 578,834, Aug. 18; Serial No. 633,308, published May 19, 1953. Class 39.

Kimble Glass Company, assignee: *See*—
Owens-Illinois Glass Company.

Kirby, Block & Fischer, Inc., New York, N. Y. Men's and boys' outer apparel, women's, misses' and children's outer apparel. 366,436, Apr. 11, 1939. Republished Aug. 18. Class 39.

Kleistone Rubber Co., Inc.: *See*—
Lynn Rubber Manufacturing Company.

Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. 578,742, Aug. 18; Serial No. 611,432, published May 19, 1953. Class 46.

Kono Manufacturing Company, The, Woodside, N. Y. Eyeglass and spectacle frames and temple bars thereof. 578,719, Aug. 18; Serial No. 382,566, published Apr. 21, 1953. Class 26.

Kotkins, Henry L., doing business as Skyway Luggage Company, Seattle, Wash. Combined luggage cover and carrying bag. 578,736, Aug. 18; Serial No. 606,531, published May 26, 1953. Class 3.

Lally, R., Co., Evanston, Ill. Powdered wax. 578,738, Aug. 18; Serial No. 607,757, published Feb. 24, 1953. Class 6.

Lasersohn-Doneger, Inc., New York, N. Y. Prepared advertising. 578,939, Aug. 18; Serial No. 625,986. Class 38.

La Venture Wm. L., Huntington Park, Calif. Men's and women's shoes. 578,943, Aug. 18; Serial No. 629,112. Class 39.

Layton, George L., doing business under the trading style of M. L. & G. L. Layton, assignor to Continental and Overseas Organisation Limited, London, England. Periodical publications. 578,761, Aug. 18; Serial No. 619,840, published May 26, 1953. Class 38.

Layton, M. L. & G. L.: *See*—
Layton, George L.

Leonard Spark Plug Co. Inc., Newark, N. J. Spark plugs. 578,728, Aug. 18; Serial No. 593,421, published May 19, 1953. Class 21.

Limpert Bros., Inc., New York, N. Y., and Vineland, N. J. Liquid emulsifier comprising blended glycerol, etc., and other ingredients for use in ice cream. 578,810, Aug. 18; Serial No. 628,946, published May 19, 1953. Class 46.

Linda Jo Shoe Co., Inc., Dallas, Tex. Women's and children's shoes and moccasins. 578,767, Aug. 18; Serial No. 621,674, published May 19, 1953. Class 39.

Lindsay Citrus Growers Association: *See*—
Lindsay Farm Bureau Fruit Assn.

Lindsay Farm Bureau Fruit Assn., to Lindsay Citrus Growers Association, Lindsay, Calif. Fresh citrus fruits. 307,580, renewed Oct. 31, 1953. O. G. Aug. 18. Class 46.

Long, William H., Kansas City, Mo. Novelty calendars. 578,868, Aug. 18; Serial No. 636,645, published May 26, 1953. Class 38.

Lynn Rubber Manufacturing Company, Lynn, Mass., to Kleistone Rubber Co., Inc., Warren, R. I. Arch supports. 93,606, re-renewed Sept. 30, 1953. O. G. Aug. 18. Class 44.

M & R Dietetic Laboratories, Inc., doing business as Ten-B-Low Company, Columbus, Ohio. Dried and powdered cows' milk cream. 578,777, Aug. 18; Serial No. 624,343, published May 19, 1953. Class 46.

Macdonald, Greenlees Limited: *See*—
Macdonald, Greenlees, Limited.

Macdonald, Greenlees, Limited, Leith, to Macdonald, Greenless Limited, Edinburgh, Scotland. Scotch whisky. 303,156, renewed May 16, 1953. O. G. Aug. 18. Class 49.

Macdonald, Greenlees Limited, Leith, to Macdonald, Greenlees Limited, Edinburgh, Scotland. Whisky. 304,253, renewed June 27, 1953. O. G. Aug. 18. Class 49.

Macdonald, Greenlees Limited, Leith, to R. H. Thomson & Co. (Distillers) Limited, Edinburgh, Scotland. Scotch whisky. 306,403, renewed Sept. 19, 1953. O. G. Aug. 18. Class 49.

Macdonald, Greenlees Limited, Leith, to R. H. Thomson & Co. (Distillers) Limited, Edinburgh, Scotland. Whisky. 306,408, renewed Sept. 19, 1953. O. G. Aug. 18. Class 49.

Macfadden Publications, Inc., New York, N. Y. Monthly magazine. 578,864, Aug. 18; Serial No. 636,485, published May 19, 1953. Class 38.

MacGregor Sport Products, Inc., Cincinnati, Ohio. Athletic apparel. 578,848, Aug. 18; Serial No. 634,946, published May 19, 1953. Class 39.

MacKenzie, William H., New York, N. Y. Steam traps and valves. 578,958, Aug. 18; Serial No. 636,531. Class 13.

Macy, R. H., & Co., Inc., New York, N. Y. Men's clothing and furnishings. 578,788, Aug. 18; Serial No. 625,358, published May 19, 1953. Class 39.

Magnecord, Inc., Chicago, Ill. Magnetic tape sound recorders and parts thereof. 578,827, Aug. 18; Serial No. 632,259, published May 19, 1953. Class 21.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Volume controls, rheostats, variable resistance devices. 578,751, Aug. 18; Serial No. 615,335, published May 26, 1953. Class 21.

Manahan Paper and Plastic Products Co., Brooklyn, N. Y. Polyethylene laminated paper. 578,948, Aug. 18; Serial No. 629,949. Class 37.

Manchester Modes, Inc., Manchester, Conn. Women's and men's suits and coats. 578,739, Aug. 18; Serial No. 619,763, published May 19, 1953. Class 39.

Manco Mfg. Co., Bradley, Ill. Portable hydraulic cutters and shears, metal rods and chains, etc. 578,924, Aug. 18; Serial No. 591,993. Class 23.

Mandarin Textiles Limited, Kowloon, Hong Kong. Women's pajamas, house coats, blouses, etc. 578,869, Aug. 18; Serial No. 636,934, published May 5, 1953. Class 39.

Manfield and Sons, Limited, Northampton, England. Boots and shoes. 578,847, Aug. 18; Serial 634,745, published May 19, 1953. Class 39.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. 578,881, Aug. 18; Serial No. 637,714, published May 19, 1953. Class 39.

Mann, Bernie: *See*—
Stolzman, Bernard.

Marx, Louis, & Co., Inc., New York, N. Y. Spring jump toy. 578,909, Aug. 18; Serial No. 641,065, published May 19, 1953. Class 22.

Master Graphic Service, Inc., New York, N. Y. Prepared advertising. 578,861, Aug. 18; Serial No. 636,370, published May 19, 1953. Class 38.

Matera and Kelly, New York, N. Y. Comic strip. 578,737, Aug. 18; Serial No. 606,622, published May 26, 1953. Class 38.

Mathews Conveyer Company, Ellwood City, Pa. Fabrication of material handling conveyers and material handling equipment. 578,915, Aug. 18; Serial No. 607,711, published May 19, 1953. Class 106.

McCord Company, San Francisco, Calif. Daily publication. 578,748, Aug. 18; Serial No. 614,667, published May 26, 1953. Class 38.

McCoy, Kenneth R., doing business as The Real McCoy Products Co., St. Paul, Minn. Salad dressing. 578,812, Aug. 18; Serial No. 629,306, published May 26, 1953. Class 46.

McEwan, John, & Co., to John McEwan & Co. Limited, Edinburgh, Scotland. Whisky. 92,357, re-renewed July 1, 1953. O. G. Aug. 18. Class 49.

McEwan, John, & Co. Limited: *See*—.
McEwan, John, & Co.

McGraw-Hill Publishing Co. Inc., The, assignee: *See*—
Platt, W. C., Company, The.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Oil liniment. 91,890–1, re-renewed June 3, 1953. O. G. Aug. 18. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicines and preparations for the treatment of the blood, biliousness, etc. 91,984, re-renewed June 10, 1953. O. G. Aug. 18. Class 18.

McLean, Dr. J. H., Medicine Company, The, St. Louis, Mo. Medicines, preparations, compounds, and tablets designed and intended for the treatment of and as remedies for diseases, etc. 91,986, re-renewed June 10, 1953. O. G. Aug. 18. Class 18.

Meredith Publishing Company, Des Moines, Iowa. Magazine section. 578,836, Aug. 18; Serial No. 633,678, published May 19, 1953. Class 38.

Meyers, Clarence L., & Co., Philadelphia, Pa. Cotton yarn. 578,900, Aug. 18; Serial No. 639,765, published May 26, 1953. Class 43.

Mid-Continent Seeds Inc.: *See*—
Berry Seed Company.

Milwaukee Cheese Co., Milwaukee, Wis. Natural brick cheese, processed cheese, and pickles. 578,795, Aug. 18; Serial No. 627,001, published May 19, 1953. Class 46.

Minnesota Mining and Manufacturing Company, St. Paul, Minn. Magnetic tape for recording sounds, signals, etc. 578,885, Aug. 18; Serial No. 638,208, published May 19, 1953. Class 21.

Minnesota and Ontario Paper Company, Minneapolis, Minn. Water proofed vegetable fiber board. 578,839, Aug. 18; Serial No. 634,051, published May 12, 1953. Class 12.

Morita Bros., Anaheim, Calif. Fresh fruits and vegetables. 578,811, Aug. 18; Serial No. 629,212, published May 26, 1953. Class 46.

Morton Salt Company: *See*—
Worcester Salt Co.

Motor Products Corporation, North Chicago, Ill. Home freezers. 578,929, Aug. 18; Serial No. 607,505. Class 31.

Mulhens & Kropff, Incorporated, by "4711" Limited, New York, N. Y. Cold-cream, vanishing cream, honey-jelly cream, etc. 144,207, June 28, 1921. Republished Aug. 18. Classes 18 and 51.

Munising Paper Company, The, Chicago, Ill. Coated paper. 578,822, Aug. 18; Serial No. 631,301, published Apr. 14, 1953. Class 37.

Murphy, L. R., doing business as L. R. Murphy Co., Sacramento, Calif. Railroad track scales, motor truck scales, beam industrial scales, etc. 578,873, Aug. 18; Serial No. 637,203, published May 5, 1953. Class 26.

Murphy, L. R., Co.: *See*—
Murphy, L. B.

National Instrument Company: *See*—
Rosen, Sidney.

National Skee-Ball Company, Inc., Brooklyn, N. Y., to Philadelphia Toboggan Company, Philadelphia, Pa. Game. 304,883, renewed July 18, 1953. O. G. Aug. 18. Class 22.

National Union Radio Corporation, Orange, N. J. Cathode ray tubes. 578,823, Aug. 18; Serial No. 631,302, published May 19, 1953. Class 21.

Newmann, Joseph, New York, N. Y. Satchels, handbags, billfolds, etc. 578,796, Aug. 18; Serial No. 627,076, published May 26, 1953. Class 3.

North, Charlotte T., Montclair, N. J. Prints from color photographic slides. 578,950, Aug. 18; Serial No. 630,507. Class 38.

Obermeyer, Claus F., doing business as Sport-Obermeyer, Aspen, Colo. Ski boots. 578,964, Aug. 18; Serial No. 640,355. Class 39.

Ohio Tool & Manufacturing Company, Toledo, Ohio. Threading, drilling, punching, etc.; of steel forgings, castings, die castings, etc. 578,918, Aug. 18; Serial No. 625,021, published May 19, 1953. Class 100.

Oregon Saw Chain Corporation, Portland, Oreg. Saw bars. 578,945, Aug. 18; Serial No. 829, 456. Class 23.

Orlando Daily Newspapers, Inc., Orlando, Fla. Daily newspaper. 578,877–8, Aug. 18; Serial Nos. 637,322–3, published May 26, 1953. Class 38.

Orlando Daily Newspapers, Inc., Orlando, Fla. Sunday newspaper. 578,879, Aug. 18; Serial No. 637,324, published May 26, 1953. Class 38.

Osborne Company, The, Clifton, N. J. Wallets, billfolds, key holders, etc. 578,838, Aug. 18; Serial No. 633,863, published May 26, 1953. Class 3.

Owens-Illinois Glass Company, assignor to Kimble Glass Company, Toledo, Ohio. Ampuls formed of glass. 578,938, Aug. 18; Serial No. 624,422. Class 33.

Oxenfeld Leathercraft Company, St. Louis, Mo. Leather purses. 578,808, Aug. 18; Serial No. 628,290, published May 26, 1953. Class 3.

P. Sasso e Figli, Oneglia, Italy. Olive oil. 93,645, renewed Oct. 7, 1953. O. G. Aug. 18. Class 46.

Pacific American Fisheries, Inc., South Bellingham, to Pacific American Fisheries, Inc., Bellingham, Wash. Canned salmon. 306,394, renewed Sept. 19, 1953. O. G. Aug. 18. Class 46.

Patterson Chocolates Limited, Toronto, Ontario, Canada. Chocolate bars. 578,709, Aug. 18; Serial No. 517,088, published May 26, 1953. Class 46.

Pedrick Laboratories: *See*—
Pedrick Laboratories Inc.

Pedrick Laboratories Inc., Tulsa and Sand Springs, to Pedrick Laboratories, Tulsa, Okla. Canned dog food. 304,714, renewed July 18, 1953. O. G. Aug. 18. Class 46.

Pellisson Pere & Cie, doing business as Beaupré & Co., Cognac Charente, France. Brandy. 578,942, Aug. 18; Serial No. 627,770. Class 49.

Perfect Circle Corporation, Hagerstown, Ind. Trade periodical. 578,954, Aug. 18; Serial No. 631,251. Class 38.

Philadelphia Toboggan Company: *See*—
National Skee-Ball Company, Inc.

Pichel Inc., New York, N. Y. Handbags and overnight cases. 578,843, Aug. 18; Serial No. 634,711, published May 26, 1953. Class 3.

Pittsburgh Plate Glass Company: *See*—
Corona Chemical Company.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints, paint primers, paint enamels, and lacquers. 304,104, renewed June 20, 1953. O. G. Aug. 18. Class 16.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid and paste paints, paint primers, paint enamels and lacquers, etc. 305,126, renewed Aug. 1, 1953. O. G. Aug. 18. Class 16.

Plastic Film Products Corporation, Akron, Ohio. Plastic film goods. 578,773, Aug. 18; Serial No. 622,458, published May 26, 1953. Class 42.

Platt, W. C., Company, The, Cleveland, Ohio, assignor to McGraw-Hill Publishing Co. Inc., New York, N. Y. Publication. 578,963, Aug. 18; Serial No. 639,951. Class 38.

Plymouth Undergarment Co., New York, N. Y. Women's, misses', and children's undergarments. 578,903, Aug. 18; Serial No. 630,952, published May 26, 1953. Class 39.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Electrical apparatus. 578,749, Aug. 18; Serial No. 615,188, published May 26, 1953. Class 21.

Powers Supply Company, South Gate, Calif. Water softeners. 578,936, Aug. 18; Serial No. 617,812. Class 31.

Pratt & Lambert, Inc., Buffalo, N. Y. Stains, paints, and enamels, etc. 105,610, Aug. 10, 1915. Republished Aug. 18. Classes 16 and 52.

Precision Scientific Co., Chicago, Ill. Titrometers, colorimeters, densitometers, etc. 410,227, Nov. 14, 1944. Republished Aug. 18. Class 26.

Pres-Sure-Stik Corp., New York, N. Y. Pressure sensitive adhesive paper. 578,952, Aug. 18; Serial No. 631,023. Class 37.

Professional Printing Company, Inc., Brooklyn, N. Y. Compilation of bookkeeping forms in loose leaf binders. 578,743, Aug. 18; Serial No. 611,448, published Apr. 28, 1953. Class 37.

Publicker Commercial Alcohol Company, to Publicker Industries Inc., Philadelphia, Pa. Anti-freeze compounds. 303,311, renewed May 23, 1953. O. G. Aug. 18. Class 6.

Publicker Industries Inc.: *See*—
Publicker Commercial Alcohol Company.

Quaicast Limited, Derby, England. Metal castings. 578,809, Aug. 18; Serial No. 628,873, published May 26, 1953. Class 14.

Quality Courts United, Inc., St. Petersburg, Fla. Travel guides. 578,820, Aug. 18; Serial No. 630,616, published May 26, 1953. Class 38.

Quix Flavoring Extract Corp., Richmond Hill, N. Y. Concentrate for making a non-alcoholic maltless lemon-flavored soft drink, etc. 578,928, Aug. 18; Serial No. 604,804. Class 45.

Raleigh Haberdasher, Inc., Washington, D. C. Men's suits, overcoats, and top-coats. 304,928, renewed July 25, 1953. O. G. Aug. 18. Class 39.

Ready Tool Company, The, Bridgeport, Conn. Boring mill tools, planer and shaper tools, etc. 578,752, Aug. 18; Serial No. 615,432, published Dec. 9, 1952. Class 23.

Real McCoy Products Co., The: *See*—
McCoy, Kenneth R.

Richardson Company, The, Lockland, to The Richardson Company, Cincinnati, Ohio. Composition panel board. 305,563, re-renewed Aug. 22, 1953. O. G. Aug. 18. Class 12.

Riedel & Co. Inc.: *See*—
Riedel, J. D.

Riedel, J. D., Berlin, Germany, to Riedel & Co. Inc., Brooklyn, N. Y. Medicinal preparation. 41,440, re-renewed Nov. 10, 1953. O. G. Aug. 18. Class 18.

Rodwell, Edwin L., doing business as The Rodwell Engineering and Sales Company, Omaha, Nebr. Filters. 578,953, Aug. 18; Serial No. 631,180. Class 31.

Rodwell Engineering and Sales Company, The: *See*—
Rodwell, Edwin L.

Rose Fashions, Inc., New York, N. Y. Women's, misses' and children's outer and inner apparel and accessories. 578,733, Aug. 18; Serial No. 602,778, published May 19, 1953. Class 39.

Rosen, Sidney, trading as National Instrument Company, Baltimore, Md. Laboratory machine. 578,754, Aug. 18; Serial No. 616,801, published Apr. 21, 1953. Class 26.

Ruegsegger, Ted W., doing business as Tedrick Company, Chicago, Ill. Resurfacing of structures. 578,919, Aug. 18; Serial No. 631,181, published May 19, 1953. Class 103.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Steel flooring. 578,884, Aug. 18; Serial No. 637,953, published May 12, 1953. Class 12.

Schmid, Julius, to Julius Schmid, Inc., New York, N. Y. Vaginal jelly. 306,696, renewed Sept. 26, 1953. O. G. Aug. 18. Class 18.

Schmid, Julius, to Julius Schmid, Inc., New York, N. Y. Prophylactic rubber and membranous articles. 306,997, renewed Oct. 10, 1953. O. G. Aug. 18. Class 44.

Schmid, Julius, Inc.: *See*—
Schmid, Julius.



Sears, Roebuck and Co., Chicago, Ill. Counter display material consisting of color chip cards and literature. 578,829, Aug. 18; Serial No. 632,800, published May 19, 1953. Class 38.

Sears, Roebuck and Co., Chicago, Ill. Flower boxes. 578,906, Aug. 18; Serial No. 640,586, published May 26, 1953. Class 2.

Seating Incorporated, Minneapolis, Minn. Bleachers. 578,824, Aug. 18; Serial No. 631,442, published May 12, 1953. Class 12.

Seidenbach's, Tulsa, Okla. Ladies' and misses' coats, dresses, and suits. 578,741, Aug. 18; Serial No. 610,588, published May 19, 1953. Class 39.

Selby Shoe Company, The, Portsmouth, Ohio. Women's shoes. 578,789, Aug. 18; Serial No. 626,004, published May 19, 1953. Class 39.

Sherwin, George, Inc., New York, N. Y. Boys' shirts, blouses and jackets. 578,828, Aug. 18; Serial No. 632,274, published Apr. 14, 1953. Class 39.

Shniderman, A., doing business as Flav-Oak Manufacturing Company, Kansas City, Mo. Charred chips. 307,598, renewed Oct. 31, 1953. O. G. Aug. 18. Class 1.

Shuwall, E. & E., Co., New York, N. Y. Children's dresses. 578,896, Aug. 18; Serial No. 639,667, published May 26, 1953. Class 39.

Simpson Logging Company, Seattle, Wash. Hardboard. 578,955, Aug. 18; Serial No. 633,173. Class 12.

Skyway Luggage Company: *See*—
Kotkins, Henry L.

Smith, E. Errett, Inc., New York, N. Y. Christmas cards and greeting cards. 578,817, Aug. 18; Serial No. 629,963, published May 19, 1953. Class 38.

Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., The, Detroit, Mich. Song arrangements. 578,853, Aug. 18; Serial No. 635,854, published May 26, 1953. Class 38.

Solar Air-Flo, Inc., Elkhart, Ind. Window frame. 578,731, Aug. 18; Serial No. 600,992, published July 22, 1952. Class 12.

Sonneborn, L., Sons, Inc., New York, N. Y. Solution for rendering concrete constructions abrasion-proof and waterproof. 94,123, re-renewed Nov. 4, 1953. O. G. Aug. 18. Class 6.

Southern Biscuit Company: *See*—
Weston Biscuit Company Inc.

Sport-Obermeyer: *See*—
Obermeyer, Claus F.

Springfield Electrical Specialties, Inc., New York, N. Y. Electrical contact or breaker points. 578,750, Aug. 18; Serial No. 615,295, published May 19, 1953. Class 21.

Square D Company, Detroit, Mich. Automatic electric circuit breakers, enclosures for automatic electric circuit breakers, etc. 578,856, Aug. 18; Serial No. 636,006, published May 26, 1953. Class 21.

Staley, A. E., Manufacturing Company, Decatur, Ill. Edible carbohydrates, edible fats and oils, edible vegetable proteins, etc. 578,740, Aug. 18; Serial No. 610,237, published May 19, 1953. Class 46.

Standard Brands Incorporated, New York, N. Y. Irradiated dry yeast. 307,950, renewed Nov. 14, 1953. O. G. Aug. 18. Class 46.

Standard Brands Incorporated, New York, N. Y. Coffee. 308,006, renewed Nov. 14, 1953. O. G. Aug. 18. Class 46.

Standard Seed Co.: *See*—
Berry Seed Company.

Standard Seed and Feed Company: *See*—
Berry Seed Company.

Steigerwald, A. M., Co., Chicago, Ill. Blank tags and labels, partially printed tags and labels, etc. 578,851, Aug. 18; Serial No. 635,199, published Apr. 7, 1953. Class 37.

Sterling Radiator Co., Inc., Westfield, Mass. Brackets. 578,949, Aug. 18; Serial No. 630,101. Class 13.

Stern Brothers, New York, N. Y. Ironing board covers and clothes pins. 578,894, Aug. 18; Serial No. 639,513, published May 19, 1953. Class 24.

Stern Brothers, New York, N. Y. Books and greeting cards. 578,895, Aug. 18; Serial No. 639,520, published May 26, 1953. Class 38.

Stevens Paper Mills, Inc., The, Westfield, Mass. Capacitor paper, coil insulation paper and condenser paper. 578,727, Aug. 18; Serial No. 591,872, published May 26, 1953. Class 21.

Stolzman, Bernard, also known as Bernie Mann, Flushing, N. Y. Musical entertainment. 578,914, Aug. 18; Serial No. 606,818, published May 19, 1953. Class 107.

Strauss, Levi, & Company, San Francisco, Calif. Men's, women's, and children's overalls, shirts, jackets, etc. 578,794, Aug. 18; Serial No. 626,915, published May 19, 1953. Class 39.

Syndicat des Producteurs & de Propagande du Pineau des Charentes, Cognac (Charente), France. Alcoholic aperitifs, brandies, and alcoholic liqueurs. 578,966–7, Aug. 18; Serial Nos. 570,334–5. Class 49.

Taft-Peirce Manufacturing Company, The, Woonsocket, R. I. Power-driven thread gaging units. 578,799, Aug. 18; Serial No. 627,535, published Apr. 14, 1953. Class 26.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics. 578,905, Aug. 18; Serial No. 640,173, published May 26, 1953. Class 42.

Tedrick Company: *See*—
Ruegsegger, Ted W.

Telex, Inc., St. Paul, Minn. Maintenance and repair of electronic devices. 578,917, Aug. 18; Serial No. 618,410, published May 19, 1953. Class 103.

Ten-B-Low Company: *See*—
M & R Dietetic Laboratories, Inc.

Terrytoons, Inc., New Rochelle, N. Y. Comic strips. 578,784, Aug. 18; Serial No. 624,981, published May 19, 1953. Class 38.

Theosophical Endowment Corporation, doing business as Theosophical University Press, Pasadena and Altadena, Calif. Non-sectarian, non-political monthly publication. 578,802, Aug. 18; Serial No. 627,782, published May 19, 1953. Class 38.

Theosophical University Press: *See*—
Theosophical Endowment Corporation.

Thomson, R. H., & Co. (Distillers) Limited: *See*—
Macdonald, Greenlees Limited.

Thorens Company, New Hyde Park, N. Y. Electric motors, electric phonographs, electric record-changers, etc. 578,757, Aug. 18; Serial No. 619,317, published Sept. 23, 1952. Class 21.

Treo Company, Inc., Jamaica, N. Y. Corsets, girdles, brassières, and foundation garments. 578,897, Aug. 18; Serial No. 639,672, published May 26, 1953. Class 39.

Treo Company, Inc., Jamaica, N. Y. Corsets, girdles, and foundation garments. 578,898–9, Aug. 18; Serial Nos. 639,673–4, published May 26, 1953. Class 39.

Tricosa, Paris, France. Knitted outer wear. 578,723, Aug. 18; Serial No. 589,050, published Nov. 6, 1951. Class 39.

Triplex Tire Co., Ltd., Oakland, to Triplex Tire Co., Ltd., Campbell, Calif. Pneumatic rubber tires. 302,038, renewed Mar. 21, 1953. O. G. Aug. 18. Class 35.

Tylac Company, Monticello, Ill. Decorative tile and mouldings. 578,880, Aug. 18; Serial No. 637,409, published May 12, 1953. Class 12.

Ulmann, Bernhard Co. Inc., Long Island City, N. Y. Ribbons, toweling, tapestry, and piece goods. 119,831, Dec. 11, 1917. Republished Aug. 18. Class 42.

Ulmann, Bernhard, Co. Inc., Long Island City, N. Y. Yarns and threads. 178,855, Jan. 15, 1924. Republished Aug. 18. Class 43.

Underwood Corporation: *See*—
Underwood Elliott Fisher Company.

Underwood Elliott Fisher Company, to Underwood Corporation, New York, N. Y. Multiple-key-operated computing machines, etc. 305,232, renewed Aug. 8, 1953. O. G. Aug. 18. Class 26.

Underwood Elliott Fisher Company, to Underwood Corporation, New York, N. Y. Types for typewriting machines. 306,087, renewed Sept. 5, 1953. O. G. Aug. 18. Class 23.

Union Carbide and Carbon Corporation, New York, N. Y. Metal alloys; metal alloy welding rods; and metal alloy castings, etc. 578,758, Aug. 18; Serial No. 619,273, published May 19, 1953. Class 14.

United Merchants and Manufacturers, Inc.: *See*—
Cohn Hall Marx Co.

United Press Associations, New York, N. Y. Column published in daily newspapers. 578,840, Aug. 18; Serial No. 634,176, published May 19, 1953. Class 38.

United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Steel sheets. 578,801, Aug. 18; Serial No. 627,720, published May 19, 1953. Class 14.

United States Steel Corporation: *See*—
United States Steel Company.

Utica Drop Forge & Tool Corporation, Utica, N. Y. Pliers, pinpers, wrenches, snips, and screw drivers. 578,940, Aug. 18; Serial No. 626,061. Class 23.

Vejin, Inc., Cincinnati, Ohio. Mixture of edible oils. 578,961, Aug. 18; Serial No. 639,598. Class 46.

Wall-Dec Company, New York, N. Y. Wall paper. 578,941, Aug. 18; Serial No. 626,923. Class 37.

Wanamaker, John, Philadelphia, Philadelphia, Pa. Smoking pipes. 305,405, renewed Aug. 15, 1953. O. G. Aug. 18. Class 8.

Wanamaker, John, Philadelphia, Philadelphia, Pa. Smoking tobacco. 305,406, renewed Aug. 15, 1953. O. G. Aug. 18. Class 17.

Waring Products Corporation, New York, N. Y. Electrical disintegrators and mixers for producing fluid substances. 578,813, Aug. 18; Serial No. 629,404, published May 26, 1953. Class 21.

Warren Chemical & Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Asphalt, asphaltic composition, asphalt roofing, etc. 92,488–9, re-renewed July 8, 1953. O. G. Aug. 18. Class 12.

Warren Chemical & Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Sheathing and roofing felt. 92,490, re-renewed July 8, 1953. O. G. Aug. 18. Class 12.

Wayne Shoe Company, Boston, Mass. Leather shoes. 578,770, Aug. 18; Serial No. 621,928, published May 19, 1953. Class 39.

Weidler Lumber Company, Inc., Chicago, Ill. Finished lumber. 578,844, Aug. 18; Serial No. 634,720, published May 12, 1953. Class 12.

Welger Weed & Company, Detroit, Mich. Alloys in bar, rod, and slab form. 578,910, Aug. 18; Serial No. 641,106, published May 19, 1953. Class 14.

Western Clock Co., Peru, Ill., to General Time Corporation, New York, N. Y. Clocks and watches. 93,621, renewed Sept. 30, 1953. O. G. Aug. 18. Class 27.
Western Clock Company, Peru, by General Time Corporation, La Salle, Ill. Clocks and watches. 303,275, May 16, 1933. Republished Aug. 18. Class 27.
Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. Automatic X-ray control apparatus. 578,717, Aug. 18; Serial No. 577,833, published May 19 1953. Class 21.
Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cookies. 578,755, Aug. 18; Serial No. 617,687, published May 19, 1953. Class 46.
White, John, Footwear Limited, Higham Ferrers, England. Women's and girls' boots, shoes, and slippers. 578,830, Aug. 18; Serial No. 633,240, published May 19, 1953. Class 39.
Whitney, Ruby D., Chicago, Ill. Cloths for hot rolls. 578,775, Aug. 18; Serial No. 623,695, published May 26, 1953. Class 42.
Wiegand, Edwin L., Coopany, Pittsburgh, Pa. Electric range units and immersion heaters, and parts thereof. 578,765, Aug. 18; Serial No. 620,385, published May 19, 1953. Class 21.
Wilbar's, Inc., Boston, Mass. Ladies' shoes and slippers. 578,766, Aug. 18; Serial No. 621,348, published May 19, 1953. Class 39.
Wilkins-Rogers Milling Company, Inc., Washington, D. C. Corn meal. 578,797, Aug. 18; Serial No. 627,159, published May 26, 1953. Class 46.
Williams & Humbert to Williams & Humbert Limited, London, England. Sherry wines. 306,231, renewed Sept. 12, 1953. O. G. Aug. 18. Class 47.
Williams & Humbert, to Williams & Humbert Limited, London, England. Wines. 306,232, renewed Sept. 12, 1953. O. G. Aug. 18. Class 47.
Williams & Humbert, to Williams & Humbert Limited, London, England. Sherry wine. 306,522, renewed Sept. 19, 1953. O. G. Aug. 18. Class 47.
Williams & Humbert Limited: *See*—
Williams & Humbert.
Williams, J. B., Company, The, Glastonbury, Conn. Preparations for treatment of the hair and beard, toilet powders, preparations for cleaning the teeth, etc. 304,496, renewed July 11, 1953. O. G. Aug. 18. Class 51.
Wirtz Co., Inc., assignor to Wirtz Company, Peoria, Ill. Photocomposing machine. 578,734, Aug. 18; Serial No. 604,941, published Dec. 23, 1952. Class 26.
Wirtz Company, assignee: *See*—
Wirtz Co., Inc.
Wolf, Robert S., assignee: *See*—
Holliday Frosted Food Co.
Worcester Salt Co., New York, N. Y., by Morton Salt Company, Chicago, Ill. Tooth paste, tooth powder, mouth wash. 304,054, June 20, 1933. Republished Aug. 18. Class 51.
Wurdack Chemical Co., St. Louis, Mo. Combination cleaning and polishing agent. 578,735, Aug. 18; Serial No. 605,936, published Dec. 16, 1952. Class 4.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Charred chips. A. Shniderman. 307,598, renewed Oct. 31, 1953. O. G. Aug. 18.
Peat moss for poultry and animal bedding (poultry litter), peat moss for horticultural and floral use, etc. Ezl. Dunwoody Co. 305,616, renewed Aug. 22, 1953. O. G. Aug. 18.
Seeds, Farm, vegetable, and flower. Berry Seed Company. 575,112, June 2, 1953. Corrected. O. G. Aug. 18.

## CLASS 2

Bags, Garment. Atlantic Products Corporation. 578,926, Aug. 18; Serial No. 507,490.
Bags, Paper. Bemis Bro. Bag Company. 578,930, Aug. 18; Serial No. 610,408.
Boxes, Flower. Sears, Roebuck and Co. 578,906, Aug. 18; Serial No. 640,586, published May 26, 1953.
Cartons, Paperboard folding. O. B. Andrews Company. 578,908, Aug. 18; Serial No. 640,774, published May 26, 1953.
Cases, Paperboard shipping. Container Corporation of America. 578,957, Aug. 18; Serial No. 635,686.
Pails or grease containers, Grease. The Fil-Rite Company. 444,786, Aug. 18; Serial No. 505,026, published Apr. 7, 1953.
Refrigerator dishes, Plastic. L. H. Bennett. 578,925, Aug. 18; Serial No. 592,539.

## CLASS 3

Handbags. Dorian Handbags. 578,821, Aug. 18; Serial No. 630,833, published May 19, 1953.
Handbags and overnight cases. Pichel Inc. 578,843, Aug. 18; Serial No. 634,711, published May 26, 1953.
Luggage cover and carrying bag, Combined. H. L. Kotkins. 578,736, Aug. 18; Serial No. 606,531, published May 26, 1953.
Purses, Leather. Oxenfeld Leathercraft Company. 578,806, Aug. 18; Serial No. 628,290, published May 26, 1953.
Satchels, handbags, billfolds, etc. J. Newmann. 578,796, Aug. 18; Serial No. 627,076, published May 26, 1953.
Suitcases and garment bags. General Sewing Corp. 578,804, Aug. 18; Serial No. 628,150, published May 26, 1953.
Valises, trunks, suitcases, etc. Airline Luggage Shop. 578,819, Aug. 18; Serial No. 630,370, published May 26, 1953.
Wallets, billfolds, key holders, etc. The Osborne Company. 578,838, Aug. 18; Serial No. 633,883, published May 26, 1953.

## CLASS 4

Abrasive and grinding wheels. A. P. de Sanno & Son, Inc. 406,940, May 9, 1944. Republished Aug. 18.
Cleaning and polishing agent, Combination. Wurdack Chemical Co. 578,735, Aug. 18; Serial No. 605,936, published Dec. 16, 1952.
Cleanser. Brillo Manufacturing Company, Inc. 578,965, Aug. 18; Serial No. 640,837.

## CLASS 6

Anti-freeze compounds. Publicker Commercial Alcohol Company. 303,311, renewed May 23, 1953. O. G. Aug. 18.
Insecticides. Corona Chemical Company. 91,758, re-renewed May 27, 1953. O. G. Aug. 18.
Solution for rendering concrete constructions abrasion-proof and waterproof. L. Sonneborn Sons, Inc. 94,123, re-renewed Nov. 4, 1953. O. G. Aug. 18.
Water softening and water conditioning chemical. The Buromin Company. 306,582, renewed Sept. 26, 1953. O. G. Aug. 18.
Wax, Powdered. R. Lally Co. 578,738, Aug. 18; Serial No. 607,757, published Feb. 24, 1953.

## CLASS 8

Pipes, Smoking. J. Wanamaker. 305,405, renewed Aug. 15, 1953. O. G. Aug. 18.

## CLASS 12

Asphalt, asphaltic composition, asphalt roofing, etc. Warren Chemical & Manufacturing Company. 92,488-9, re-renewed July 8, 1953. O. G. Aug. 18.
Asphaltic sealing composition. Wilbert W. Haase Co. 578,935, Aug. 18; Serial No. 617,584.
Bleachers, Seating Incorporated. 578,824, Aug. 18; Serial No. 631,442, published May 12, 1953.
Building paper. The Barrett Company. 304,052, renewed June 20, 1953. O. G. Aug. 18.
Concrete, Dry, ready-mixed. J. W. Alther. 578,842, Aug. 18; Serial No. 634,515, published May 12, 1953.
Fiber board, Water proofed vegetable. Minnesota and Ontario Paper Company. 578,839, Aug. 18; Serial No. 634,051, published May 12, 1953.
Hardboard. Simpson Logging Company. 578,955, Aug. 18; Serial No. 633,173.
Hardboard laminated with plywood, Grooved. Columbia Plywood Co. 578,841, Aug. 18; Serial No. 634,435, published May 12, 1953.
Lumber, Finished. Weidler Lumber Company, Inc. 578,844, Aug. 18; Serial No. 634,720, published May 12, 1953.
Panel board, Composition. The Richardson Company. 305,563, renewed Aug. 22, 1953. O. G. Aug. 18.
Panels of translucent sheet material for use as exterior siding and roofing, Preformed relatively rigid. Butler Manufacturing Company. 578,927, Aug. 18; Serial No. 598,883.
Refractory blocks, bricks, and bodies of special shape for furnaces. Corhart Refractories Company. 578,778, Aug. 18; Serial No. 624,396, published May 12, 1953.
Sheathing and roofing felt. Warren Chemical & Manufacturing Company. 92,490, re-renewed July 8, 1953. O. G. Aug. 18.
Steel flooring. Joseph T. Ryerson & Son, Inc. 578,884, Aug. 18; Serial No. 637,953, published May 12, 1953.
Tile and mouldings, Decorative. Tylac Company. 578,880, Aug. 18; Serial No. 637,409, published May 12, 1953.
Window frame. Solar Air-Flo, Inc. 578,731, Aug. 18; Serial No. 600,992, published July 22, 1952.
Window sills, casings and trim; door jambs, etc. R. W. Kerr. 578,726, Aug. 18; Serial No. 591,370, published May 12, 1953.
Wooden flooring. The Connor Lumber and Land Company. 578,845, Aug. 18; Serial No. 634,732, published May 12, 1953.



## CLASS 13

Brackets. Sterling Radiator Co., Inc. 578,949, Aug. 18; Serial No. 630,101.
Moulded metal strips. The Hopp Press, Inc. 578,923, Aug. 18; Serial No. 590,365.
Sprinkler systems, Automatic. General Fire Extinguisher Company. 303,911, renewed June 13, 1953. O. G. Aug. 18.
Steam traps and valves. W. H. MacKenzie. 578,958, Aug. 18; Serial No. 636,531.

## CLASS 14

Alloys in bar, rod and slab form. Welger Weed & Company. 578,910, Aug. 18; Serial No. 641,106, published May 19, 1953.
Aluminum, brass, and steel wire, metal tubing stock, rods, etc. Edgcomb Steel Company. 578,890-1, Aug. 18; Serial Nos. 638,702-3, published May 19, 1953.
Aluminum foil. Cochran Foil Company. 578,913, Aug. 18; Serial No. 641,500, published May 26, 1953.
Metal alloys; metal alloy welding rods; and metal alloy castings, etc. Union Carbide and Carbon Corporation. 578,756, Aug. 18; Serial No. 619,273, published May 19, 1953.
Metal castings. Qualcast Limited. 578,809, Aug. 18; Serial No. 628,873, published May 26, 1953.
Metals, Babbitt and anti-friction. Great Western Smelting & Refining Co. 94,177, re-renewed Nov. 11, 1953. O. G. Aug. 18.
Steel sheets. United States Steel Company. 578,801, Aug. 18; Serial No. 627,720, published May 19, 1953.
Steel sheets, Galvanized. Bethlehem Steel Company. 578,870, Aug. 18; Serial No. 637,165, published May 26, 1953.

## CLASS 16

Paints, Liquid and paste, paint primers, paint enamels, and lacquers. Pittsburgh Plate Glass Company. 304,104, renewed June 20, 1953. O. G. Aug. 18.
Paints, Liquid and paste, paint primers, paint enamels, and lacquers, etc. Pittsburgh Plate Glass Company. 305,128, renewed Aug. 1, 1953. O. G. Aug. 18.
Paints, Ready mixed oil. Dixie Paint and Varnish Company, Inc. 444,787, Aug. 18; Serial No. 521,440, published May 19, 1953.
Stains, paints, and enamels, etc. Pratt & Lambert, Inc. 105,610, Aug. 10, 1915. Republished Aug. 18.

## CLASS 17

Tobacco, Smoking. John Wanamaker, Philadelphia. 305,406, renewed Aug. 15, 1953. O. G. Aug. 18.

## CLASS 18

Analgesic preparation. Hoffmann-La Roche Inc. 305,528, renewed Aug. 22, 1953. O. G. Aug. 18.
Cold-cream, vanishing cream, honey-jelly cream, etc. Mulhens & Kropff, Incorporated. 144,207, June 28, 1921. Republished Aug. 18.
Intravenous and subcutaneous solutions. Hospital Liquids, Inc. 578,934, Aug. 18; Serial No. 617,031.
Liniment, Oil. The Dr. J. H. McLean Medicine Company. 91,890-1, re-renewed June 3, 1953. O. G. Aug. 18.
Medicinal preparation. J. D. Riedel. 41,440, re-renewed Nov. 10, 1953. O. G. Aug. 18.
Medicines and preparations for the treatment of the blood, biliousness, etc. The Dr. J. H. McLean Medicine Company. 91,984, re-renewed June 10, 1953. O. G. Aug. 18.
Medicines, preparations, compounds, and tablets designed and intended for the treatment of and as remedies for diseases, etc. The Dr. J. H. McLean Medicine Company. 91,986, re-renewed June 10, 1953. O. G. Aug. 18.
Tonic laxative, laxative, cathartic, etc. Bristol-Myers Company. 91,642, re-renewed May 20, 1953. O. G. Aug. 18.
Vaginal jelly. J. Schmid. 306,696, renewed Sept. 26, 1953. O. G. Aug. 18.

## CLASS 19

Airplanes. Consolidated Vultee Aircraft Corporation. 578,826, Aug. 18; Serial No. 631,919, published May 26, 1953.
Cycles and parts therefor, Pedal. The Hercules Cycle and Motor Company Limited. 578,846, Aug. 18; Serial No. 634,740, published May 26, 1953.
Scooter designed for use in the household. L. Anderson. 578,854, Aug. 18; Serial No. 635,895, published May 26, 1953.

## CLASS 21

Automatic X-ray control apparatus. Westinghouse Electric Corporation. 578,717, Aug. 18; Serial No. 577,833, published May 19, 1953.
Capacitor paper, coil insulation paper and condenser paper. The Stevens Paper Mills, Inc. 578,727, Aug. 18; Serial No. 591,872, published May 26, 1953.
Casings for flash lights. H & H Sales & Mfg. Company. 578,883, Aug. 18; Serial No. 637,922, published May 19, 1953.
Cathode ray tubes. National Union Radio Corporation. 578,823, Aug. 18; Serial No. 631,302, published May 19, 1953.
Diesel-electric locomotives. American Locomotive Company. 578,774, Aug. 18; Serial No. 623,578, published May 19, 1953.
Electric circuit breakers, Automatic, enclosures for automatic electric circuit breakers, etc. Square D Company. 578,856, Aug. 18; Serial No. 636,096, published May 26, 1953.
Electric motors, electric phonographs, electric record-changers, etc. Thorens Company. 578,737, Aug. 18; Serial No. 619,317, published Sept. 23, 1952.
Electric trolley conductors, collectors and insulating sheathing. Benbow Manufacturing Co. 578,786, Aug. 18; Serial No. 625,090, published May 26, 1953.
Electrical apparatus. Plymouth Wholesale Dry Goods Corporation. 578,749, Aug. 18; Serial No. 615,188, published May 26, 1953.
Electrical contact or breaker points. Springfield Electrical Specialties, Inc. 578,750, Aug. 18; Serial No. 615,295, published May 19, 1953.
Electrical disintegrators and mixers for producing fluid substances. Waring Products Corporation. 578,813, Aug. 18; Serial No. 629,404, published May 26, 1953.
Electrical equipment. Heyer Industries Incorporated. 578,833, Aug. 18; Serial No. 633,363, published May 19, 1953.
Electrical equipment and supplies. International Brotherhood of Electrical Workers. 442,826, June 7, 1949. Corrected. O. G. Aug. 18.
Electrical equipment and tower lighting equipment. Andrew Corporation. 578,715, Aug. 18; Serial No. 567,482, published May 19, 1953.
Electrically operated foul detecting and indicating apparatus. American Machine and Foundry Company. 578,718, Aug. 18; Serial No. 579,160, published May 19, 1953.
Inserts for vacuum cleaner suction nozzles, Removable. Electrolux Corporation. 578,781, Aug. 18; Serial No. 624,594, published May 26, 1953.
Lamp shades. W. M. Cline Company. 578,832, Aug. 18; Serial No. 633,350, published May 19, 1953.
Lamps, Electrical, lamp shades and lighting fixtures. E. Chernoy. 578,780, Aug. 18; Serial No. 624,526, published May 19, 1953.
Magnetic tape for recording sounds, signals, etc. Minnesota Mining and Manufacturing Company. 578,885, Aug. 18; Serial No. 638,208, published May 19, 1953.
Magnetic tape sound recorders and parts thereof. Magnecord, Inc. 578,827, Aug. 18; Serial No. 632,259, published May 19, 1953.
Radio tubes, radio transmitters and receivers and parts therefor. The Robert Dollar Co. 578,888-9, Aug. 18; Serial Nos. 638,526-7, published May 19, 1953.
Range units and immersion heaters, Electric, and parts thereof. Edwin L. Wiegand Company. 578,765, Aug. 18; Serial No. 620,385, published May 19, 1953.
Spark plugs. Leonard Spark Plug Co, Inc. 578,728, Aug. 18; Serial No. 593,421, published May 19, 1953.
Spotlights, Narrowbeam, high intensity floodlighting, display lighting. R. Heliegers. 578,782, Aug. 18; Serial No. 624,829, published May 19, 1953.
Variable inductors. C. G. S. Laboratories, Inc. 578,745, Aug. 18; Serial No. 613,361, published May 26, 1953.
Volume controls, rheostats, variable resistance devices. P. R. Mallory & Co., Inc. 578,751, Aug. 18; Serial No. 615,335, published May 26, 1953.

## CLASS 22

Cowboy and cowgirl outfits consisting of holster sets complete with toy guns and toy bullets, Children's. Graton & Knight Company. 578,837, Aug. 18; Serial No. 633,845, published May 20, 1953.
Dolls and doll clothes. D. Ippolito. 578,798, Aug. 18; Serial No. 627,339, published May 19, 1953.
Fish lines. Cortland Line Company, Inc. 578,912, Aug. 18; Serial No. 641,440, published May 26, 1953.
Floats used in fishing. Dayton Bait Company. 578,904, Aug. 18; Serial No. 640,036, published May 19, 1953.
Game. National Skee-Ball Company, Inc. 304,883, renewed July 18, 1953. O. G. Aug. 18.
Snelled hooks and fishing leaders. B. W. Bedell. 578,911, Aug. 18; Serial No. 641,267, published May 26, 1953.
Toy, Spring jump. Louis Marx & Co., Inc. 578,909, Aug. 18; Serial No. 641,065, published May 19, 1953.

## CLASS 23

Cutters and shears, Portable hydraulic, metal rods and chains, etc. Manco Mfg. Co. 578,924, Aug. 18; Serial No. 591,993.
Machine bearings. Dixon Lubricating Saddle Co. 578,944, Aug. 18; Serial No. 629,293.
Parts of a spinning frame, comprising bobbin holders, saddles, etc. Dixon Lubricating Saddle Co. 578,947, Aug. 18; Serial No. 629,844.
Pliers, nippers, wrenches, snips and screw drivers. Utica Drop Forge & Tool Corporation. 578,940, Aug. 18; Serial No. 626,061.
Pulleys and sheaves. The B. F. Goodrich Company. 578,932, Aug. 18; Serial No. 612,539.
Pumps. Chain Belt Company. 304,962, renewed July 25, 1953. O. G. Aug. 18.
Saw bars. Gregon Saw Chain Corporation. 578,945, Aug. 18; Serial No. 629,456.

Sprayers, Hand operated compression. H. D. Hudson Manufacturing Company. 578,951, Aug. 18; Serial No. 630,935.
Tools, Boring mill, planer and shaper tools, etc. The Ready Tool Company. 578,752, Aug. 18; Serial No. 615,412, published Dec. 9, 1952.
Types for typewriting machines. Underwood Elliott Fisher Company. 306,067, renewed Sept. 5, 1953. O. G. Aug. 18.

CLASS 24

Clothes drying racks. Falco Products Co. 578,791, Aug. 18; Serial No. 626,663, published May 12, 1953.
Clothes drying racks. Falco Products Co. 578,792, Aug. 18; Serial No. 626,734, published May 12, 1953.
Ironing board covers and clothes pins. Stern Brothers. 578,894, Aug. 18; Serial No. 629,513, published May 19, 1953.
Washing machines, Automatic laundry. Horton Manufacturing Company. 578,762–4, Aug. 18; Serial Nos. 619,969–71, published Apr. 14, 1953.
Washing machines, Clothes, clothes ironers, and mechanical clothes driers. G. M. Gibson Corporation. 578,729, Aug. 18; Serial No. 600,772, published May 19, 1953.

CLASS 25

Safes. Herring-Hall-Marvin Safe Company. 54,280, June 26, 1906. Republished Aug. 18.
Safes. Herring-Hall-Marvin Safe Company. 54,710, June 26, 1906. Republished Aug. 18.
Safes. Herring-Hall-Marvin Safe Company. 56,279, Sept. 4, 1906. Republished Aug. 18.
Safes. Herring-Hall-Marvin Safe Company. 56,287, Sept. 4, 1906. Republished Aug. 18.

CLASS 26

Computing machines, etc., Multiple-key-operated. Underwood Elliott Fisher Company. 305,232, renewed Aug. 8, 1953. O. G. Aug. 18.
Electrical testers. H. E. Hanson. 578,818, Aug. 18; Serial No. 630,006, published Apr. 21, 1953.
Eyeglass and spectacle frames and temple bars thereof. The Kono Manufacturing Company. 578,719, Aug. 18; Serial No. 582,566, published Apr. 21, 1953.
Gaging units, Power-driven thread. The Taft-Peirce Manufacturing Company. 578,799, Aug. 18; Serial No. 627,535, published Apr. 14, 1953.
Laboratory balances, Automatic; tachometers, speedometers; etc. J. S. Bogen. 578,862, Aug. 18; Serial No. 626,460, published Apr. 14, 1953.
Laboratory machine. S. Rosen. 578,754, Aug. 18; Serial No. 616,801, published Apr. 21, 1953.
Measuring tapes. Keuffel & Esser Company. 578,712, Aug. 18; Serial No. 545,998, published Apr. 14, 1953.
Meters, Gas, and parts of gas meters. American Meter Company. 578,710, Aug. 18; Serial No. 533,828, published Apr. 7, 1953.
Meters, Gas, and parts of gas meters. American Meter Company. 578,711, Aug. 18; Serial No. 541,489, published Apr. 7, 1953.
Optical view finders and supplementary lenses, etc. Eastman Kodak Company. 578,739, Aug. 18; Serial No. 609,337, published Apr. 21 1953.
Photocomposing machine. Wirtz Co., Inc. 578,734, Aug. 18; Serial No. 604,941, published Dec. 23, 1952.
Scales, Railroad track, motor truck scales, beam industrial scales, etc. L. R. Murphy. 578,873, Aug. 18; Serial No. 637,203, published May 5, 1953.
Titrometers, colorimeters, densitometers, etc. Precision Scientific Co. 410,227, Nov. 14, 1944. Republished Aug. 18.

CLASS 27

Clocks and watches. Western Clock Co. 93,621, re-renewed Sept. 30, 1953. O. G. Aug. 18.
Clocks and watches. Western Clock Company. 303,275, May 16, 1933. Republished Aug. 18.

CLASS 31

Filters. E. L. Rodwell. 578,953, Aug. 18; Serial No. 631,180.
Freezers, Home. Motor Products Corporation. 578,929, Aug. 18; Serial No. 607,505.
Water softeners. Powers Supply Company. 578,936, Aug. 18; Serial No. 617,812.

CLASS 32

Mattresses. C. F. Conklin. 578,959, Aug. 18; Serial No. 636,924.

CLASS 33

Ampuls formed of glass. Owens-Illinois Glass Company. 578,938, Aug. 18; Serial No. 624,422.

CLASS 34

Stokers. Auburn Foundry, Inc. 306,507, renewed Sept. 19, 1953. O. G. Aug. 18.

CLASS 35

Tires, Pneumatic rubber. Triplex Tire Co., Ltd. 302,036, renewed Mar. 21, 1953. O. G. Aug. 18.

CLASS 37

Accounting boards or board binders. Accounting Forms, Inc. 578,724, Aug. 18; Serial No. 589,293, published Apr. 28, 1953.
Binding cases, deposit ticket files and supplies for same, etc. The Globe-Wernicke Co. 578,725, Aug. 18; Serial No. 590,150, published Apr. 7, 1953.
Blank tags and labels, partially printed tags and labels, etc. A. M. Steigerwald Co. 578,851, Aug. 18; Serial No. 635,199, published Apr. 7, 1953.
Compilation of bookkeeping forms in loose leaf binders. Professional Printing Company, Inc. 578,743, Aug. 18; Serial No. 611,448, published Apr. 28, 1953.
Industrial safety apparel, particularly thumb and finger guards. Industrial Gloves Company. 578,721, Aug. 18; Serial No. 585,169, published Apr. 28, 1953.
Paperboard. Alton Box Board Company. 578,849, Aug. 18; Serial No. 635,114, published Apr. 7, 1953.
Paper, Coated. The Munising Paper Company. 578,822, Aug. 18; Serial No. 631,301, published Apr. 14, 1953.
Paper, Polyethylene laminated. Manahan Paper and Plastic Products Co. 578,948, Aug. 18; Serial No. 629,949.
Paper, Pressure sensitive adhesive. Pres-Sure-Stik Corp. 578,952, Aug. 18; Serial No. 631,023.
Paper, Wall. Wall-Dec Company. 578,941, Aug. 18; Serial No. 626,925.
Paper, Writing, printing paper, cover paper, etc. Arthur Doniger Paper Co., Inc. 578,753, Aug. 18; Serial No. 616,414, published Apr. 28, 1953.
Pencils. British Pens Limited. 578,855, Aug. 18; Serial No. 635,899, published Apr. 14, 1953.
Wrapping and packaging materials. Crystal Tube Corporation. 578,716, Aug. 18; Serial No. 575,124, published May 19, 1953.

CLASS 38

Books and greeting cards. Stern Brothers. 578,895, Aug. 18; Serial No. 639,520, published May 26, 1953.
Calendars, Novelty. W. H. Long. 578,868, Aug. 18; Serial No. 636,645, published May 26, 1953.
Christmas cards and greeting cards. E. Errett Smith, Inc. 578,817, Aug. 18; Serial No. 629,963, published May 19, 1953.
Column appearing in a periodical or trade magazine. E. E. Boegli. 578,722, Aug. 18; Serial No. 586,787, published May 19, 1953.
Column published in daily newspapers. United Press Associations. 578,840, Aug. 18; Serial No. 634,176, published May 19, 1953.
Comic strip. Matera and Kelly. 578,737, Aug. 18; Serial No. 606,622, published May 26, 1953.
Comic strips. Terrytoons, Inc. 578,784, Aug. 18; Serial No. 624,981, published May 19, 1953.
Counter display material consisting of color chip cards and literature. Sears, Roebuck and Co. 578,829, Aug. 18; Serial No. 632,800, published May 19, 1953.
Magazine, Cartoon or comic. The Hearst Corporation. 578,746, Aug. 18; Serial No. 613,710, published May 12, 1953.
Magazine, Monthly. Macfadden Publications, Inc. 578,864, Aug. 18; Serial No. 636,485, published May 19, 1953.
Magazine, Monthly fiction. Gernsback Publications, Inc. 578,858, Aug. 18; Serial No. 636,280, published May 19, 1953.
Magazine section. Meredith Publishing Company. 578,836, Aug. 18; Serial No. 633,678, published May 19, 1953.
Newspaper column or columns. Fairchild Publications, Inc. 578,892, Aug. 18; Serial No. 639,214, published May 26, 1953.
Newspaper, Daily. Orlando Daily Newspapers, Inc. 578,877–8, Aug. 18; Serial Nos. 637,322–3, published May 26, 1953.
Newspaper, Sunday. Orlando Daily Newspapers, Inc. 578,879, Aug. 18; Serial No. 637,324, published May 26, 1953.
Periodical, Monthly. Kershaw Manufacturing Company, Inc. 578,867, Aug. 18; Serial No. 636,568, published May 19, 1953.
Periodical, Promotional. The Louis Allis Company. 578,874, Aug. 18; Serial No. 637,230, published May 19, 1953.
Periodical, Trade. Perfect Circle Corporation. 578,954, Aug. 18; Serial No. 631,251.
Periodicals. Broadcasting Publications, Inc. 578,850, Aug. 18; Serial No. 635,170, published May 19, 1953.
Prepared advertising. Lasersohn-Doneger, Inc. 578,939, Aug. 18; Serial No. 625,986.
Prepared advertising. Master Graphic Service, Inc. 578,861, Aug. 18; Serial No. 636,370, published May 19, 1953.
Prints from color photographic slides. Charlotte T. North. 578,950, Aug. 18; Serial No. 630,507.
Publication. Apparel Arts Publications, Inc. 307,098, renewed Oct. 17, 1953. O. G. Aug. 18.
Publication. Colton Press, Inc. 578,893, Aug. 18; Serial No. 639,264, published May 26, 1953.
Publication. The W. C. Platt Company. 578,963, Aug. 18; Serial No. 639,951.



Publication, Daily. McCord Company. 578,748, Aug. 18; Serial No. 614,667, published May 26, 1953.
Publication, Non-sectarian, non-political monthly. Theosophical Endowment Corporation. 578,802, Aug. 18; Serial No. 627,782, published May 19, 1953.
Publications, Periodical. George L. Layton. 578,761, Aug. 18; Serial No. 619,840, published May 26, 1953.
Song arrangements. The Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc. 578,853, Aug. 18; Serial No. 635,854, published May 26, 1953.
Travel guides. Quality Courts United, Inc. 578,820, Aug. 18; Serial No. 630,616, published May 26, 1953.

CLASS 39

Apparel and accessories, Women's, misses' and children's outer and inner. Rose Fashions, Inc. 578,733, Aug. 18; Serial No. 602,778, published May 19, 1953.
Athletic apparel. MacGregor Sport Products, Inc. 578,848, Aug. 18; Serial No. 634,946, published May 19, 1953.
Boots and shoes. Manfield and Sons, Limited. 578,847, Aug. 18; Serial No. 634,745, published May 19, 1953.
Boots, bootees, shoes, etc. Brevitt Shoes Limited. 578,790, Aug. 18; Serial No. 626,365, published May 19, 1953.
Boots, shoes and slippers. Brevitt Shoes Limited. 578,758, Aug. 18; Serial No. 619,491, published May 19, 1953.
Boots, shoes and slippers. Brevitt Shoes Limited. 578,760, Aug. 18; Serial No. 619,799, published May 19, 1953.
Boots, shoes, and slippers, Women's and girls'. John White Footwear Limited. 578,830, Aug. 18; Serial No. 633,240, published May 19, 1953.
Boots, Ski. C. F. Obermeyer. 578,964, Aug. 18; Serial No. 640,355.
Clothing. Best & Co. Inc. 578,720, Aug. 18; Serial No. 583,319, published May 19, 1953.
Clothing and furnishings, Men's. R. H. Macy & Co., Inc. 578,788, Aug. 18; Serial No. 625,358, published May 19, 1953.
Clothing, women's, juniors', and misses', suits and coats. I. Himmelstein. 578,805, Aug. 18; Serial No. 628,273, published May 19, 1953.
Coats and suits, Ladies'. City Stores Company. 578,860, Aug. 18; Serial No. 636,341, published May 26, 1953.
Coats, dresses, and suits, Ladies' and misses'. Seidenbach's. 578,741, Aug. 18; Serial No. 610,588, published May 19, 1953.
Coats, Storm. The Grove Company. 578,859, Aug. 18; Serial No. 636,231, published May 5, 1953.
Corsets, girdles and foundation garments. Treo Company, Inc. 578,898–9, Aug. 18; Serial Nos. 639,673–4, published May 26, 1953.
Corsets, girdles, brassières and foundation garments. Treo Company, Inc. 578,897, Aug. 18; Serial No. 639,672, published May 26, 1953.
Corsets, girdles, knitted step-ins, etc. Blair Corset Company, Inc. 578,769, Aug. 18; Serial No. 621,810, published May 26, 1953.
Creepers, overalls, slacks, etc., Infants' and children's. Kid-O-Roy Togs. 578,834, Aug. 18; Serial No. 633,868, published May 19, 1953.
Dresses and skirts, Ladies'. E. W. Jeffries. 578,931, Aug. 18; Serial No. 611,791.
Dresses, Children's. E. & E. Shuwall Co. 578,896, Aug. 18; Serial No. 639,667, published May 26, 1953.
Dresses, Ladies'. Epstein Garment Co., Inc. 578,831, Aug. 18; Serial No. 633,808, published May 19, 1953.
Dungarees, pants, blue jeans, etc., Men's and boys', ladies' and children's. Big Jack Manufacturing Company, Inc. 578,772, Aug. 18; Serial No. 622,293, published May 19, 1953.
Gloves and mittens. The Boss Manufacturing Company. 578,871, Aug. 18; Serial No. 637,163, published May 26, 1953.
Gloves and mittens. The Boss Manufacturing Company. 578,872, Aug. 18; Serial No. 637,170, published May 26, 1953.
Hats. Hat Corporation of America. 578,779, Aug. 18; Serial No. 624,409, published May 19, 1953.
Hats and caps, dress shirts, outer and under shirts, etc., Men's and boys'. Adam Hat Stores, Inc. 578,815, Aug. 18; Serial No. 629,758, published May 19, 1953.
Hats and caps, dress shirts, outer and under shirts, etc., Men's and boys'. Adam Hat Stores, Inc. 578,865, Aug. 18; Serial No. 636,505, published May 19, 1953.
Infants' and children's wear. H. & J. Block, Inc. 578,866, Aug. 18; Serial No. 636,509, published May 5, 1953.
Outer apparel, Men's and boys', women's, misses', and children's outer apparel. Kirby, Block & Fischer, Inc. 366,436, Apr. 11, 1939. Republished Aug. 18.
Outer wear, Knitted. Tricots. 578,723, Aug. 18; Serial No. 589,050, published Nov. 6, 1951.
Overalls, shirts, jackets, etc., Men's, women's, and children's. Levi Strauss & Company. 578,794, Aug. 18; Serial No. 626,916, published May 19, 1953.
Pajamas, house coats, blouses, etc., Women's. Mandarin Textiles Limited. 578,869, Aug. 18; Serial No. 636,934, published May 5, 1953.
Pants, Men's work. Blue Bell, Inc. 578,962, Aug. 18; Serial No. 639,615.
Shirts, blouses and jackets, Boys'. George Sherwin, Inc. 578,828, Aug. 18; Serial No. 632,274, published Apr. 14, 1953.
Shirts, Men's outer. The Manhattan Shirt Company. 578,881, Aug. 18; Serial No. 637,714, published May 19, 1953.
Shoes and moccasins, Women's and children's. Linda Jo Shoe Co., Inc. 578,767, Aug. 18; Serial No. 621,674, published May 19, 1953.
Shoes and slippers, Ladies'. Wilbar's, Inc. 578,766, Aug. 18; Serial No. 621,348, published May 19, 1953.
Shoes and slippers, Men's and women's. A. S. Beck Shoe Corporation. 578,852, Aug. 18; Serial No. 635,457, published May 19, 1953.
Shoes, Ladies'. Belk's Buying Service, Inc. 578,814, Aug. 18; Serial No. 629,716, published May 19, 1953.
Shoes, Leather. Clement & Ball Shoe Mfg. Co., Inc., of Baltimore City. 578,768, Aug. 18; Serial No. 621,753, published May 19, 1953.
Shoes, Leather. Wayne Shoe Company. 578,770, Aug. 18; Serial No. 621,928, published May 19, 1953.
Shoes, Men's and boys'. R. P. Hazzard Co. 578,803, Aug. 18; Serial No. 627,815, published May 19, 1953.
Shoes, Men's and women's. W. L. La Venture. 578,948, Aug. 18; Serial No. 629,112.
Shoes, Women's. Brown Shoe Company, Inc. 578,882, Aug. 18; Serial No. 637,859, published May 19, 1953.
Shoes, Women's. J. M. Hiss. 578,744, Aug. 18; Serial No. 613,071, published May 19, 1953.
Shoes, Women's. The Selby Shoe Company. 578,789, Aug. 18; Serial No. 626,004, published May 19, 1953.
Shoes, Women's and children's. Broitman-Gaffin Shoes, Inc. 578,875, Aug. 18; Serial No. 637,236, published May 19, 1953.
Sportswear, Men's and boys'. Anvil Brand, Incorporated. 578,787, Aug. 18; Serial No. 625,326, published May 19, 1953.
Suits and coats, Women's and men's. Manchester Modes, Inc. 578,759, Aug. 18; Serial No. 619,763, published May 19, 1953.
Suits, overcoats, and top-coats, Men's. Raleigh Haberdasher, Inc. 304,928, renewed July 25, 1953. O. G. Aug. 18.
Suits, Women's and misses' woolen, cotton, and rayon. Harry R. Bretter, Inc. 578,800, Aug. 18; Serial No. 627,670, published May 19, 1953.
Sweaters, Women's. Dalton, Inc. 578,747, Aug. 18; Serial No. 614,425, published May 5, 1953.
T-shirts, dress shirts, sport shirts, etc., Boys' outer. The Kaynee Company. 578,793, Aug. 18; Serial No. 626,797, published May 19, 1953.
Undergarments, Women's, misses', and children's. Plymouth Undergarment Co. 578,903, Aug. 18; Serial No. 639,952, published May 26, 1953.
Wearing apparel. Angelica Uniform Company. 578,857, Aug. 18; Serial No. 636,108, published May 26, 1953.

CLASS 40

Hair goods. Ben-Hur Products, Inc. 578,956, Aug. 18; Serial No. 633,410.

CLASS 42

Bed-blankets and steamer-rugs. F. C. Huyck and Sons. 92,428, re-renewed July 8, 1953. O. G. Aug. 18.
Blankets, Bed. F. C. Huyck & Sons. 304,525, renewed July 11, 1953. O. G. Aug. 18.
Carpeting, Rayon, and cotton carpeting. E. T. Barwick. 578,901, Aug. 18; Serial No. 639,800, published May 26, 1953.
Clothe for hot rolls. R. D. Whitney. 578,775, Aug. 18; Serial No. 623,695, published May 26, 1953.
Fabric, backing material, Processed. Acme Backing Corporation. 302,838, May 2, 1933. Republished Aug. 18.
Fabrics, Cotton sateen. Brown & Ackerman, Inc. 578,732, Aug. 18; Serial No. 601,196, published May 26, 1953.
Fabrics, Pile. Sidney Blumenthal & Co., Inc. 304,449, renewed July 11, 1953. O. G. Aug. 18.
Fabrics, Pile. Sidney Blumenthal & Co., Inc. 306,506, renewed Sept. 19, 1953. O. G. Aug. 18.
Fabrics, Pile. Sidney Blumenthal & Co., Inc. 307,545, renewed Oct. 31, 1953. O. G. Aug. 18.
Fabrics, Textile. Dan River Mills, Incorporated. 578,902, Aug. 18; Serial No. 639,921, published May 26, 1953.
Fabrics, Textile. Tanbro Fabrics Corp. 578,905, Aug. 18; Serial No. 640,173, published May 26, 1953.
Piece goods, Silk. Cohn Hall Marx Co. 305,247, renewed Aug. 8, 1953. O. G. Aug. 18.
Plastic film goods. Plastic Film Products Corporation. 578,773, Aug. 18; Serial No. 622,458, published May 26, 1953.
Ribbons, toweling, tapestry, and piece goods. Bernhard Ulmann Co. Inc. 119,831, Dec. 11, 1917. Republished Aug. 18.

CLASS 43

Yarn, Cotton. Clarence L. Meyers & Co. 578,900, Aug. 18; Serial No. 639,765, published May 26, 1953.
Yarns and threads. Bernhard Ulmann Co. Inc. 178,655, Jan. 15, 1924. Republished Aug. 18.
Yarns, Worsted, rayon yarns, cotton yarns, etc. Fleisher Yarns, Inc. 375,674, Feb. 27, 1940. Republished Aug. 18.

CLASS 44

Arch supports. Lynn Rubber Manufacturing Company. 93,606, re-renewed Sept. 30, 1953. O. G. Aug. 18.
Prophylactic rubber and membraneous articles. J. Schmid. 306,997, renewed Oct. 10, 1953. O. G. Aug. 18.

CLASS 45

Beverages, Non-alcoholic, maltless. Citrus Juice & Flavor Co., Ltd. 303,420, renewed May 23, 1953. O. G. Aug. 18.
Concentrate for making a non-alcoholic maltless lemon-flavored soft drink, etc. Quix Flavoring Extract Corp. 578,928, Aug. 18; Serial No. 604,804.
Powder compound in various fruit flavors. F. B. Chamberlain Company. 301,256, renewed Feb. 21, 1953. O. G. Aug. 18.
Soft drinks, Maltless, and carbonated waters. Acme Beverage Company. 578,960, Aug. 18; Serial No. 637,291.

CLASS 46

Apples, Fresh. Brookfield Orchards, Inc. 578,785, Aug. 18; Serial No. 624,997, published May 26, 1953.
Canned dog food. Pedrick Laboratories Inc. 304,714, renewed July 18, 1953. O. G. Aug. 18.
Canned fruit juices and frozen fruit juices. Cia. Anma. Toddy Venezolana. 578,825, Aug. 18; Serial No. 631,517, published May 26, 1953.
Canned salmon. Pacific American Fisheries, Inc. 306,394, renewed Sept. 19, 1953. O. G. Aug. 18.
Cheese, Natural brick, processed cheese, and pickles. Milwaukee Cheese Co. 578,795, Aug. 18; Serial No. 627,001, published May 19, 1953.
Chemical preparations for treatment of fresh and preserved foodstuffs. Aktiebolaget Bofors. 578,730, Aug. 18; Serial No. 600,938, published May 19, 1953.
Chocolate bars. Patterson Chocolates Limited. 578,709, Aug. 18; Serial No. 517,088, published May 26, 1953.
Coffee. Standard Brands Incorporated. 308,006, renewed Nov. 14, 1953. O. G. Aug. 18.
Conditioning agent for enhancing the binding or emulsifying quality of meat, etc. Chemische Werke Albert. 578,771, Aug. 18; Serial No. 622,052, published May 19, 1953.
Cookies. Weston Biscuit Company Inc. 578,755, Aug. 18; Serial No. 617,687, published May 19, 1953.
Corn meal. Wilkins-Rogers Milling Company, Inc. 578,797, Aug. 18; Serial No. 627,159, published May 26, 1953.
Dairy products. Knudsen Creamery Co. of California. 578,742, Aug. 18; Serial No. 611,432, published May 19, 1953.
Edible carbohydrates, edible fats and oils, edible vegetable proteins, etc. A. E. Staley Manufacturing Company. 578,740, Aug. 18; Serial No. 610,237, published May 19, 1953.
Feed, Nutritious ration. Central Soya Company, Inc. 578,776, Aug. 18; Serial No. 624,263, published May 19, 1953.
Food, Organically grown natural. Green Life Products Company. 578,887, Aug. 18; Serial No. 638,301, published May 19, 1953.
Food product, Packaged. Chicken Delight Inc. 578,807–8, Aug. 18; Serial Nos. 628,846–7, published Oct. 7, 1952.
Frozen custards, ice creams and ices. T. Carvel. 578,937, Aug. 18; Serial No. 620,398.
Fruits and vegetables, Fresh. Morita Bros. 578,811, Aug. 18; Serial No. 629,212, published May 26, 1953.
Fruits, Fresh citrus. Lindsay Farm Bureau Fruit Assn. 307,580, renewed Oct. 31, 1953. O. G. Aug. 18.
Grapes, Fresh. Richrad Bagdasarian & Co. 578,835, Aug. 18; Serial No. 633,407, published May 26, 1953.
Hams, bacon, lard, and sausages. Figge & Hutweiker Co. 92,968–9, re-renewed Aug. 12, 1953. O. G. Aug. 18.
Liquid emulsifier comprising blended glycerol, etc., and other ingredients for use in ice cream. Limpert Bros., Inc. 578,810, Aug. 18; Serial No. 628,948, published May 19, 1953.
Meats, Frozen. Holiday Frosted Food Co. 578,816, Aug. 18; Serial No. 629,945, published May 19, 1953.
Milk cream, Dried and powdered cows'. M & R Dietetic Laboratories, Inc. 578,777, Aug. 18; Serial No. 624,343, published May 19, 1953.
Milk, Evaporated. The Borden Company. 578,714, Aug. 18; Serial No. 567,067, published May 19, 1953.
Mixture of edible oils. Vejin, Inc. 578,961, Aug. 18; Serial No. 639,598.
Olive oil. P. Sasso e Figli. 93,645, re-renewed Oct. 7, 1953. O. G. Aug. 18.
Potatoes. Harvey Brothers. 578,876, Aug. 18; Serial No. 637,276, published May 26, 1953.
Rice. Converted Rice, Inc. 578,863, Aug. 18; Serial No. 636,466, published May 26, 1953.
Rice. N. W. Hutchings, Sr., and N. W. Hutchings, Jr. 578,886, Aug. 18; Serial No. 638,288, published May 19, 1953.
Salad dressing K. R. McCoy. 578,812, Aug. 18; Serial No. 629,306, published May 26, 1953.
Sauce. M. J. Coleman. 578,713, Aug. 18; Serial No. 559,500, published Nov. 1, 1949.
Seasoning for meats, Smoke flavored. H. Geroux. 578,783, Aug. 18; Serial No. 624,944, published May 19, 1953.
Syrup, Maple, assorted fruits in corn syrup, raspberry jam, etc. Fanny Farmer Candy Shops, Inc. 578,907, Aug. 18; Serial No. 640,076, published May 26, 1953.
Yeast, Irradiated dry. Standard Brands Incorporated. 307,950, renewed Nov. 14, 1953. O. G. Aug. 18.

CLASS 47

Wine, Sherry. Williams & Humbert. 306,522, renewed Sept. 19, 1953. O. G. Aug. 18.
Wines. Averys of Bristol Limited. 578,922, Aug. 18; Serial No. 582,517.
Wines. Williams & Humbert. 306,232, renewed Sept. 12, 1953. O. G. Aug. 18.
Wines, Sherry. Williams & Humbert. 306,231, renewed Sept. 12, 1953. O. G. Aug. 18.

CLASS 49

Alcoholic aperitifs, brandies, and alcoholic liqueurs. Syndicat des Producteurs & de Propagande du Pineau des Charentes. 578,966–7, Aug. 18; Serial Nos. 570,334–5.
Brandy. Pellisson Pere & Cie. 578,942, Aug. 18; Serial No. 627,770.
Whisky. Baird-Taylor. 306,523, renewed Sept. 19, 1953. O. G. Aug. 18.
Whisky. Macdonald, Greenlees Limited. 304,253, renewed June 27, 1953. O. G. Aug. 18.
Whisky. Macdonald, Greenlees Limited. 306,408, renewed Sept. 19, 1953. O. G. Aug. 18.
Whisky. John McEwan & Co. 92,357, re-renewed July 1, 1953. O. G. Aug. 18.
Whisky, Scotch. Macdnnald, Greenlees, Limited. 303,156, renewed May 16, 1953. O. G. Aug. 18.
Whisky, Scotch. Macdonald, Greenlees Limited. 306,403, renewed Sept. 19, 1953. O. G. Aug. 18.

CLASS 51

Cold-cream, vanishing cream, honey-jelly cream, etc. Mulhens & Kropff, Incorporated. 144,207, June 28, 1921. Republished Aug. 18.
Cosmetic powder, cosmetic paste, and preparations for the hair. P. Beiersdorf & Co. 93,627, re-renewed Oct. 7, 1953. O. G. Aug. 18.
Lotions, Hand, face lotions, perfumes, etc. B. Ansehl. 304,978, renewed July 25, 1953. O. G. Aug. 18.
Preparations for treatment of the hair and beard, toilet powders, preparations for cleaning the teeth, etc. The J. B. Williams Company. 304,496, renewed July 11, 1953. O. G. Aug. 18.
Tooth paste, tooth powder, mouth wash. Worcester Salt Co. 304,054, June 20, 1933. Republished Aug. 18.

CLASS 52

Chemical used either for the cleaning of metal surfaces or for the removal of rust therefrom preparatory to painting. Concentrated. W. M. Barr & Company. 578,933, Aug. 18; Serial No. 613,492.
Liquid preparation for dissolving and removing wax from and otherwise cleaning the ear molds of hearing aid devices. A. Gallo. 578,946, Aug. 18; Serial No. 629,728.
Soap, Lanolin. Botany Worsted Mills. 420,206, Apr. 2, 1946. Republished Aug. 18.
Stains, paints, and enamels, etc. Pratt & Lambert, Inc. 105,610, Aug. 10, 1915. Republished Aug. 18.

CLASS 103

Chemical extermination and eradication of termites. Chemtox Company, Ltd. 578,020, Aug. 18; Serial No. 631,268, published May 19, 1953.
Maintenance and repair of electronic devices. Telex, Inc. 578,917, Aug. 18; Serial No. 618,410, published May 19, 1953.
Repairing, servicing, and maintaining aircraft engines and component parts of aircraft and aircraft engines. Air Carrier Engine Service, Inc. 578,921, Aug. 18; Serial No. 633,027, published May 19, 1953.
Resurfacing of structures. T. W. Ruegsegger. 578,919, Aug. 18; Serial No. 631,181, published May 19, 1953.

CLASS 106

Fabrication of material handling conveyers and material handling equipment. Mathews Conveyer Company. 578,915, Aug. 18; Serial No. 607,711, published May 19, 1953.
Surface hardening steel production parts of others. The Chapman Valve Manufacturing Company. 578,916, Aug. 18; Serial No. 613,902, published May 19, 1953.
Threading, drilling, punching, etc., of steel forgings, castings, die castings, etc. Ohio Tool & Manufacturing Company. 578,918, Aug. 18; Serial No. 625,021, published May 19, 1953.

CLASS 107

Musical entertainment. B. Stolsman. 578,914, Aug. 18; Serial No. 606,816, published May 19, 1953.

# LIST OF REISSUE PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 18TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

American Cyanamid Company, assignee: *See*—
Stewart, Hugh W., and Lee.
Turner, Richard J., and Stewart
Brown, Norman F., assignor to N. F. B. Displacement Pump Co. Limited, London, England. Free piston for use in eduction pipes of apparatus for raising liquid in wells. Re. 23,698, Aug. 18.
Dental Perfection Company, assignee: *See*—
Lochridge, Edwin H.
Havens, Byron L., Bergen County, N. J., assignor to International Business Machines Corporation, New York, N. Y. Pulse delay circuit. Re. 23,699, Aug. 18.
International Business Machines Corporation, assignee: *See*—
Havens, Byron L.
Lee, Ellen G.: *See*—
Stewart, Hugh W., and Lee.
Lochridge, Edwin H., Glendale, Calif., assignor to Dental Perfection Company. Dental impression composition. Re. 23,700, Aug. 18.
N. F. B. Displacement Pump Co. Limited, assignee: *See*—
Brown, Norman F.
Stewart, Hugh W.: *See*—
Turner, Richard J., and Stewart.
Stewart, Hugh W., Plainfield, N. J., and E. G. Lee, Amherst, Va., assignors to American Cyanamid Company, New York, N. Y. Substituted piperazines and preparing same. Re. 23,701, Aug. 18.
Turner, Richard J., Fanwood, and H. W. Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. 1-carbalkoxy-4-substituted piperazines. Re. 23,702, Aug. 18.

# LIST OF DESIGN PATENTEES

All American Engineering Company, assignee: *See*—
Green, Howard S.
Alumasc Limited, assignee: *See*—
Raylor, Walter.
Arch, Anna, New York, N. Y. Table lamp. 170,181, Aug. 18.
Bauernfeind, Doris M.: *See*—
Mancini, Louis F., and Bauernfeind.
Brenner, William, Furniture Corp., The, assignee: *See*—
Glass, Henry P.
Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Toy cow. 170,182, Aug. 18.
Collins, Arthur A., and R. W. Wollan, Cedar Rapids, Iowa. Approach horizon. 170,183, Aug. 18.
Collins, Arthur A., and H. M. Schweighofer, assignors to Collins Radio Company, Cedar Rapids, Iowa. Course indicator. 170,184, Aug. 18.
Collins Radio Company, assignee: *See*—
Collins, Arthur A., and Schweighofer.
Crichton, Andrew E., Jr., Johnstown, Pa. Drill unit. 170,185, Aug. 18.
Da-Lite Screen Company, Inc., assignee: *See*—
Prokop, Frank J.
Di Sopra, John, Greenhill Farms, Pa. Combined soap dish, tumbler, and toothbrush holder. 170,186, Aug. 18.
Eichel, Norman, New York, N. Y. Combined wallet and holder for manufacturing and sewing accessories. 170,187, Aug. 18.
Flood, Charles W., Jr., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Wall fixture for deodorizing lamps. 170,188, Aug. 18.
Glass, Henry P., Chicago, Ill., assignor to The William Brenner Furniture Corp., Cincinnati, Ohio. Sectional sofa. 170,189, Aug. 18.
Glass, Henry P., Chicago, Ill., assignor to The William Brenner Furniture Corp., Cincinnati, Ohio. Living room sofa. 170,190, Aug. 18.
Gothé, David E., New York, N. Y. Dress. 170,191, Aug. 18.
Green, Howard S., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del. Aircraft ski or similar article. 170,192, Aug. 18.
Green, Howard S., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del. Aircraft ski or similar article. 170,193, Aug. 18.
Green, Howard S., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del. Aircraft ski or similar article. 170,194, Aug. 18.
Green, Howard S., assignor, by mesne assignments, to All American Engineering Company, Wilmington, Del. Aircraft ski or similar article. 170,195, Aug. 18.
Gries, Otto, New Rochelle, N. Y. Cup hook. 170,196, Aug. 18.
Gross, Joseph S., New York, N. Y. Dress. 170,197, Aug. 18.
Gyrodyne Company of America, Inc., assignee: *See*—
Strong, Edward W.
Harris, William C., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Floor polishing unit. 170,198, Aug. 18.
Hyman, Sidney, New York, N. Y. Handbag. 170,199, Aug. 18.
Johnson, S. C., & Son, Inc., assignee: *See*—
Harris, William C.
Kallah, Beatrice, New York, N. Y. Dress. 170,200, Aug. 18.
Kallan, Beatrice, New York, N. Y. Dress. 170,201, Aug. 18.
Keyes Fibre Company, assignee: *See*—
Randall, Walter H.
Knapp, Russell D., Elko, Nev. Saw. 170,202, Aug. 18.
Leonard, Ralph N., Crystal Lake, Ill. Television antenna. 170,203, Aug. 18.
Long, Charles W., Philadelphia, Pa. Display cabinet. 170,204, Aug. 18.
Mancini, Louis F., Bradshaw, and D. M. Bauernfeind, Middle River, Md. Religious plaque. 170,205, Aug. 18.
Marx, Louis, & Company, Inc., assignee: *See*—
Campbell, Laurie J.
Morgenweck, Walter W., Fanwood, N. J. Combined playing card and poker chip case or similar article. 170,206, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,207, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,208, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,209, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 170,210, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,211, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,212, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,213, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,214, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 170,215, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,216, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,217, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,218, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,219, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,220, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,221, Aug. 18.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,222, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,223, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,224, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,225, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,226, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,227, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,228, Aug. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 170,229, Aug. 18.
Plotkin, Bernard, assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif. Wheel cover. 170,230, Aug. 18.
Plotkin, Bernard, assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif. Wheel cover. 170,231, Aug. 18.
Plotkin, Bernard, assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif. Wheel cover. 170,232, Aug. 18.
Plotkin, Bernard, assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif. Wheel cover. 170,233, Aug. 18.
Plotkin, Bernard, assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif. Wheel cover. 170,234, Aug. 18.
Plotkin, Bernard, assignor to Wire Wheel Division, Calnevar Company, Los Angeles, Calif. Wheel cover. 170,235, Aug. 18.
Prokop, Frank J., assignor to Da-Lite Screen Company, Inc., Chicago, Ill. Handle for portable picture screens or the like. 170,236, Aug. 18.
Randall, Walter H., Waterville, assignors to Keyes Fibre Company, Portland, Maine. Serving tray. 170,237, Aug. 18.
Raylor, Walter, Englefield Green, assignor of one-half to Alumasc Limited, London, England. Fitting for tubular structures. 170,238, Aug. 18.
Raylor, Walter, Englefield Green, assignor of one-half to Alumasc Limited, London, England. Fitting for tubular structures. 170,239, Aug. 18.
Raylor, Walter, Englefield Green, assignor of one-half to Alumasc Limited, London, England. Fitting for tubular structures. 170,240, Aug. 18.
Robbins, Bernice L., Chicago, Ill. Combined finger ring and handkerchief holder. 170,241, Aug. 18.
Robinson, Albert P., Seattle, Wash. Front plate for a circulating fireplace heater. 170,242, Aug. 18.
Royal, Lloyd D., Wichita Falls, Tex. Stool. 170,243, Aug. 18.
Saccone, John V., Lodi, N. J. Link chain for a bracelet or similar article. 170,244, Aug. 18.
Saccone, John V., Lodi, N. J. Link chain for a bracelet or similar article. 170,245, Aug. 18.
Schweighofer, Horst M.: *See*—
Collins, Arthur A., and Schweighofer.
Spanioi, Philip F., Baltimore, Md. Preformed necktie. 170,246, Aug. 18.
Strong, Edward W., Stony Brook, assignor to Gyrodyne Company of America, Inc., Flowerfield, N. Y. Rotary wing aircraft. 170,247, Aug. 18.
Sundberg, Carl W., Birmingham, assignor to Sundberg & Ferar, Royal Oak, Mich., Wheel ornament for motor vehicles. 170,248, Aug. 18.
Sundberg, Carl W., Birmingham, assignor to Sundberg & Ferar, Royal Oak, Mich., Wheel ornament for motor vehicles. 170,249, Aug. 18.
Sundberg & Ferar, assignee: *See*—
Sundberg, Carl W.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Van Norman, Kenneth M., East Moline, Ill. Lighter. 170,250, Aug. 18.
Weinstein, Samuel, New York, N. Y. Hat. 170,251, Aug. 18.
Welebny, Julius A., Rockville Centre, N. Y. Calendar-type lipstick holder. 170,252, Aug. 18.
Westinghouse Electric Corporation, assignee: *See*—
Flood, Charles W., Jr.
Wire Wheel Division, Calnevar Company, assignee: *See*—
Plotkin, Bernard.
Wollan, Rolf W.: *See*—
Collins, Arthur A., and Wollan.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 18TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, Marcel: *See*—
Dessert, Léo, Abel, and Rua.
Ackerson, Raymond O., Earp, Calif. Rifle bolt sleeve and safety. 2,648,926, Aug. 18.
Adams, Brainard F.: *See*—
Marshall, Oren B., and Adams.
Adams, Cecil E., and E. H. Born, assignors to The Denison Engineering Company, Columbus, Ohio. Hydraulic control means. 2,649,106, Aug. 18.
Adler, Robert, assignor to Consolidated Electric Company, Chicago, Ill. Method and apparatus for signal communication. 2,649,503, Aug. 18.
Adrian, Joseph, assignor to Super Speed Printing Machinery, Inc., Cleveland, Ohio. Hydraulically operated paper cutter. 2,649,154, Aug. 18.
Aelony, David, Minneapolis, Minn., assignor to General Mills, Inc. Phenolic ester resins. 2,649,422, Aug. 18.
"Aesculapius" S. r. l., assignee: *See*—
Masellis, Francesco P.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Hartline, Haldan K., Rawson, and Legallais.
Trachtenberg, Robert.
Aktiebolaget Separator, assignee: *See*—
Erling, Sven J.
Aktiebolaget Separator-Nobel, assignee: *See*—
Braae, Ben.
Albano, Edmond, New York, N. Y. Completely reversible window. 2,648,878, Aug. 18.
Albersheim, Walter J., Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave-guide elbow. 2,649,578, Aug. 18.
Albus, Charles P.: *See*—
Sundberg, Robert L., Albus, and Cross.
Alderfer, Sterling W., assignor of three-tenths to E. D. Andrews, Akron, Ohio. Sponge rubber product. 2,649,391, Aug. 18.
Alexander, Warren A., Tulsa, Okla., assignor to Standard Oil Development Company. Detector for seismic exploration. 2,649,579, Aug. 18.
Allan, Morag L.: *See*—
Taylor, Arthur W. C., Jones, and Allan.
Allen, Francis E., assignor to Architectural Porcelain Constructors, Oakland, Calif. Architectural panel. 2,649,172, Aug. 18.
Allen, Kenneth C.: *See*—
Meeker, David A., and Allen.
Allied Chemical & Dye Corporation, assignee: *See*—
Porter, Frank, and Eck.
Vingee, Raymond A.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Knudsen, Thomas C.
Allyn, William N., Auburn, C. S. Cook, Sennett, H. A. Browne, Jordan, F. McK. Scott, Skaneateles, and J. M. Carroll, Elbridge, assignors to Welch Allyn, Inc., Auburn, N. Y. Folding laryngoscope and angularly adjustable and detachable joint therefor. 2,649,087, Aug. 18.
Altman, Fred E., assignor to Eastman Kodak Company, Rochester, N. Y. Four component apochromatic copying objective. 2,649,026, Aug. 18.
Aluminum Products, Inc., assignee: *See*—
Housel, William E.
American Artists' Color Works, Inc., assignee: *See*—
Brooks, Irwin, and Friedberg.
American Cyanamid Company, assignee: *See*—
Carnes, Joseph J.
Hardy, Elizabeth M. and W. B.
Hardy, William B.
Hardy, William B. and E. M.
Kaiser, Donald W., and Roemer.
Parsons, Carr H., and Rumpf.
Spencer, Frank R.
American Cystoscope Makers, Inc., assignee: *See*—
Wallace, Frederick J.
American Fixture and Manufacturing Co., assignee: *See*—
Woina, Benjamin A., and Richards.
American Houses Inc., assignee: *See*—
Vermilya, Howard P.
American Optical Company, assignee: *See*—
Eves, Joseph R.
American Smelting and Refining Company, assignee: *See*—
Smith, Albert A., Jr., and Everhart.
American Steel Foundries, assignee: *See*—
Cizek, Frank O.
American Viscose Corporation, assignee: *See*—
Cox, Charles W.
Amstutz, Edward D., Bethlehem, Pa., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio. Derivatives of 2,7-diaminothioxanthone dioxide. 2,649,460, Aug. 18.
Anderson, Alfred F., East Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Brushmaking machine. 2,649,336, Aug. 18.
Anderson, Alvin P., Woodcliff Lake, N. J., assignor to Shell Development Company, San Francisco, Calif. Asphalt composition and preparing the same. 2,649,384, Aug. 18.
Anderson, George W., Great Neck, N. Y. Can opener-handle combination. 2,648,900, Aug. 18.
Anderson, Henry, Spencer, Iowa. Valve with foot actuated control. 2,649,116, Aug. 18.
Anderson, Martin J., assignor to Mathews Conveyer Company, Ellwood City, Pa. Universal coupling for conveyers. 2,649,177, Aug. 18.
Anderson, Noel M., Des Moines, Iowa. Yard hydrant. 2,649,111, Aug. 18.
Anderson, Walter J., Elgin, assignor, by mesne assignments, to Central Commercial Industries, Inc., Chicago, Ill. Musical instrument. 2,649,007, Aug. 18.
Anderson, Walter R., Cleveland, Ohio, assignor to Koehring Company, Milwaukee, Wis. Carry-type scraper and digging front apron arrangement. 2,648,920, Aug. 18.
Andrews, Edward D., assignee: *See*—
Alderfer, Sterling W.
Angénieux, Pierre, Paris, France. Large aperture photographic objective. 2,649,021, Aug. 18.
Angénieux, Pierre, Paris, France. Wide-angle photographic objective lens assembly. 2,649,022, Aug. 18.
Anton, Nicholas, Brooklyn, N. Y. Radiation indicator. 2,649,554, Aug. 18.
Anway, Matilda B., Co-executrix: *See*—
Hawkins, Charles A., and Zehrbaugh.
Architectural Porcelain Constructors, assignee: *See*—
Allen, Francis E.
Armstrong Cork Company, assignee: *See*—
Moore, Donald W., and Searl.
Turkington, Robert D.
Armstrong, David T., Weehawken, assignor of one-half to J. W. Wolfe, Palisades Park, N. J. Transmission line tuning device for electronic systems. 2,649,577, Aug. 18.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Badik, Cornelius E., and Reilly.
Arnold, Fredric, Roslyn Heights, N. Y. Table having adjustable top sections. 2,649,206, Aug. 18.
Arny, Louis W., Wayne, and H. W. Stevens, Phoenixville, Pa. Packaged fertilizer elements. 2,649,196, Aug. 18.
Ashton, Albert A., Houston, Tex., assignor to Emsco Manufacturing Company, Los Angeles, Calif. Crosshead connection. 2,649,342, Aug. 18.
Askania Regulator Company, assignee: *See*—
Glass, Paul.
Atkins, Earle R., Jr., La Habra, assignor to Union Oil Company of California, Los Angeles, Calif. Measuring the cross sectional area of boreholes. 2,649,163, Aug. 18.
Atlantic Refining Company, The, assignee: *See*—
Williams, William K., and Krogh.
Aust, Mart L., Clarksdale, Miss. Tractor implement. 2,649,039, Aug. 18.
Autenrieth, Ferdinand, Irvington, assignor to C. F. Mueller Co., Jersey City, N. J. Alimentary food product machine. 2,649,056, Aug. 18.
Automatic Rock-A-Bye, Inc., assignee: *See*—
Strom, Gordon H., Lichter, and Rusincky.
Avco Manufacturing Corporation, assignee: *See*—
Woodburn, Joseph J.
Avery, Howard W., Schenectady, N. Y., assignor to General Electric Company. Hydraulic valve system. 2,649,107, Aug. 18.
Ayerst, McKenna & Harrison, Limited, assignee: *See*—
Beall, Desmond, and Grant.
Glen, William L., Myers, and Papineau-Couture.
Babbitt, John F., Louisville, Ky., assignor to Rogers Imports Inc., New York, N. Y. Case for a package of cigarettes. 2,649,194, Aug. 18.
Backus, Edward D., and J. Siegel, Bennettsville, S. C. Foldable cabinet. 2,649,350, Aug. 18.
Bacon, Elbridge F., deceased, by R. J. Bacon, executrix, Flint, assignor to General Motors Corporation, Detroit, Mich. Signal reflector for automotive vehicles and the like. 2,649,029, Aug. 18.
Bacon, Ruth J., executrix: *See*—
Bacon, Elbridge F.
Badik, Cornelius E., Long Branch, and J. J. Reilly, Jr., Irvington, N. J., assignors to the United States of America as represented by the Secretary of the Army. Device for retaining reel connectors. 2,649,261, Aug. 18.

Baisch, John C., Whittier, Calif., assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel supply system. 2,649,084, Aug. 18.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Breunich, Theodore R.

Ballard, Seaver A., Orinda, assignor to Shell Development Company, San Francisco, Calif. Fungicidal compositions and method of fungus control comprising hydrocarbyl-substituted pyrimidines. 2,649,397, Aug. 18.

Ballou, Richard P., Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J. Electric switch. 2,649,514, Aug. 18.

Balthrop, Edward S., Jr., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Method of and apparatus for winding yarns. 2,649,254, Aug. 18.

Barbara, Jack L., Port Jervis, N. Y. Smoke diffuser for mouthpieces. 2,649,094, Aug. 18.

Barbato, Robert C., New York, N. Y. Iris type valve construction. 2,649,272, Aug. 18.

Barber-Colman Company, assignee: *See*—
Stibitz, George R.

Barclay Pharmaceutical Products Company, Inc., assignee: *See*—
Fallon, John E.

Barco, Allen A., W. H. Bliss, and M. M. Carpenter, Jr., Princeton, N. J., assignors to Radio Corporation of America. Simplified color television receiver. 2,649,499, Aug. 18.

Bardet, Gérard, Paris, France. Vibratory device for controlling discharge from a hopper containing a powdered or a small-size granular homogeneous substance. 2,649,224, Aug. 18.

Barkdoll, Joseph P., Groton, assignor to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Carriage feeding escapement mechanism. 2,649,179, Aug. 18.

Barley, Leo D., Dayton, assignor to Harris-Seybold Company, Cleveland, Ohio. Hydraulic cutting machine. 2,649,153, Aug. 18.

Barnes, Bycon H., Los Angeles, Calif. Pipe wiper. 2,648,862, Aug. 18.

Barnett, Harry, Glencoe, and E. Sabalius, assignors to The Powers Regulator Company, Chicago, Ill. Automatic reset restriction valve. 2,649,112, Aug. 18.

Barrett, Harry B., St. Louis, Mo. Brake shoe bonding machine. 2,649,132, Aug. 18.

Barrett, Paul A., London, England, assignor to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Preparation of amino ketones. 2,648,444, Aug. 18.

Barry, Richard H.: *See*—
Walter, Lewis A., Barry, and Clark.

Barthenheier, Jakob: *See*—
Neugebauer, Wilhelm, Barthenheier, and Rebenstock.

Bartolucci, Ben, Chicago, Ill. Detachable vane assembly for contact column. 2,649,291, Aug. 18.

Battelle Development Corporation, The, assignee: *See*—
Brand, Benson G.

Baynk, Bernard, Dayton, Ohio. Rotary launching system and apparatus for target aircraft. 2,649,263, Aug. 18.

Bayus Electric, Incorporated, assignee: *See*—
Finiale, Tomun, and Connolly.

Beall, Desmond, and G. A. Grant, Montreal, Quebec, assignors to Ayerst, McKenna & Harrison, Limited, St. Laurent, Quebec, Canada. Conjugated oestrogenic quaternary ammonium salts and their preparation. 2,649,399, Aug. 18.

Beaver, David J., Richmond Heights, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of arylenethiazole vulcanization accelerators. 2,649,457, Aug. 18.

Beezley, Reginald R., Memphis, Tenn. Grease seal spacer. 2,649,316, Aug. 18.

Begle, Howell E., and G. F. Gaudreau, Detroit, Mich.; said Gaudreau assignor to said Begle. Rotary cutter. 2,648,893, Aug. 18.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Albersheim, Walter J.
Blair, Royer R.
Cisne, Luther E.
Davey, James R.
Felch, Edwin P., Jr., and Merrill.
Harrison, Charles W.
Lewis, Willard D.
Mallina, Rudolph F.
Mason, Warren P.
McDavitt, Marcellus B.
Pearson, Gerald L.
Radcliffe, Frederick E.
Reck, Frank.
Robertson, Sloan D.

Bellringer, Frederick J., Wimbledon, London, T. Bewley, Epsom, R. C. Snell, Hull, and K. H. W. Turck, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of methyl acrylate. 2,649,475, Aug. 18.

Benchemoul, Norbert R., Paris, France. Liquid resistance electrical apparatus. 2,649,526, Aug. 18.

Bendix Aviation Corporation, assignee: *See*—
Deardorff, Clinton E.
Wood, Louvan E., and Hauck.

Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Shumaker, John F.

Benedict, Manson, Westfield, A. C. Fastz, Jr., Maplewood, and H. N. Woebcke, North Bergen, N. J., assignors to Hydrocarbon Research, Inc., New York, N. Y. Hydrocarbon synthesis process and the production of synthesis gas. 2,649,468, Aug. 18.

Beneke, Charles J., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Field reel for cable coil. 2,649,260, Aug. 18.

Bennett, George E., and J. B. Ott, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. 2-thiomo-5-oxazolidones. 2,649,458, Aug. 18.

Berestneff, Alexis A., assignor to Carrier Corporation, Syracuse, N. Y. Absorption refrigeration system, including means for placing steam condensate and weak solution in heat exchange relation. 2,648,957, Aug. 18.

Bergquist, Theodore W., Willow Grove, Pa. Sealing the seating surfaces of valves and similar devices. 2,649,110, Aug. 18.

Berman, Harry L., Boston, Mass. Combination bib and apron. 2,648,845, Aug. 18.

Berry, Clyde W., Naval Base, S. C. Fish and crab hook. 2,648,927, Aug. 18.

Berry, Coburn D.: *See*—
Trimble, Howard B., Sr., and Berry.

Best, Stanley G., Manchester, and D. R. Pearl, West Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Pressure actuated throttle valve. 2,649,108, Aug. 18.

Bewley, Thomas: *See*—
Bellringer, Frederick J., Bewley, Snell, and Turck.

Beyer, Edward, Oak Ridge, Tenn., Slitter or scorer for tubes or sheaths. 2,648,899, Aug. 18.

Bice, Kenneth L., Framingham, Mass. Layout device for machine tools. 2,649,000, Aug. 18.

Bice, William E., Jr., Lockeford, Calif. Bumper and step and trailer-hitch unit. 2,649,308, Aug. 18.

Birdsboro Steel Foundry and Machine Company, assignee: *See*—
Peterson, Edward C.

Bjorklund, Warren, South St. Paul, and H. Kartarik, St. Paul, assignors to Minnesota Wood Specialties, Inc., St. Paul Park, Minn. Counterbalance and support means for ceiling-mounted folding stairways. 2,649,237, Aug. 18.

Black, James F., Roselle, N. J., assignor to Standard Oil Development Company. Analytical sample cell. 2,649,011, Aug. 18.

Blackford, Raymond H., Flushing, assignor to Durable Manufacturing Co., New York, N. Y. Check valve. 2,649,277, Aug. 18.

Blair, Royer R., Berkeley Heights, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Motor system for controlling pressure. 2,649,560, Aug. 18.

Blaw-Knox Company, assignee: *See*—
Skillman, Paul.

Bliss, Warren H.: *See*—
Barco, Allen A., Bliss, and Carpenter.

Blockert, Ernest B., New York, and A. Marino, Brooklyn, N. Y. Fountain pen of the pump type. 2,649,075, Aug. 18.

Blodgett, Edwin O., Rochester, N. Y. Teletypewriter circuit. 2,649,496, Aug. 18.

Bloom, Albert, Summit, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of 4-chloro-2,5-dialkoxyanilines. 2,649,482, Aug. 18.

Bloom, Mortimer C.: *See*—
von Hippel, Arthur, and Bloom.

Bloom, Mortimer C., and J. P. Levy, Boston, Mass., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Electrodeposition of selenium. 2,649,410, Aug. 18.

Blue Ridge Textile Co., Inc., assignee: *See*—
Schwanda, Theodore F.

Blue, Wayne, Long Beach, Calif. Range finder adapter for cameras. 2,649,038, Aug. 18.

Bock, Louis H., and L. J. Carlson, assignors to Rayonier Incorporated, Shelton, Wash. Phenol ether resins. 2,649,436, Aug. 18.

Bohne, Frederick P., Salem Depot, N. H., assignor to Western Electric Company, Incorporated, New York, N. Y. Paper measuring and delivery mechanism for coil winding machines. 2,649,252, Aug. 18.

Border, Lester A., Pendleton, Oreg. Coil spring winder. 2,649,130, Aug. 18.

Born, Ellis H.: *See*—
Adams, Cecil E., and Born.

Borrelli, Alfonso, Fresno, Calif. Handling apparatus for spaghetti and the like. 2,649,055, Aug. 18.

Bousman, Samuel I.: *See*—
Kelly, Earl M., and Bousman.

Bova, Fred, Pittsburgh, Pa., and J. Bova, New Rochelle, N. Y. String instrument instruction chart. 2,649,008, Aug. 18.

Bova, Joseph: *See*—
Bova, Fred, and J.

Bovin, Henry: *See*—
Peltz, Gordon M., and Bovin.

Boyer, Jackson S., Darby, assignor to Sun Oil Company, Philadelphia, Pa. Sealing porous formations. 2,649,159, Aug. 18.





Braae, Ben, assignor to Aktiebolaget Seperator-Nobel, Stockholm, Sweden. Separating organic compounds of high hydrogen content from those of low hydrogen content. 2,649,467, Aug. 18.

Brand, Benson G., assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Protective coating material. 2,649,424, Aug. 18.

Brannen, Paul M.: *See*—
Marlowe, Elbert W., and Brannen.

Bratton, David H., Detroit, and J. H. Wernig, Bloomfield Village, assignors to General Motors Corporation, Detroit, Mich. Hinged finish molding. 2,649,329, Aug. 18.

Brent, Walter: *See*—
Nussbaum, Walter.

Breunich, Theodore R., Stamford, Conn., assignor to Baldwin-Lima-Hamilton Corporation. Fatigue tester with mean position controller. 2,648,978, Aug. 18.

Brewster, Ernest B., Rochester, N. Y. Label structure. 2,648,924, Aug. 18.

Bridgeport Brass Company, assignee: *See*—
Peltz, Gordon M., and Bovin.

Bridgeport Metal Goods Manufacturing Company, The, assignee: *See*—
Moore, Arthur H.

Brier, James M., Jr., Topeka, Kans. Combination sediment cup and drain plug for internal-combustion engines. 2,649,204, Aug. 18.

Briggs & Stratton Corporation, assignee: *See*—
Harkness, Joseph R.

Bristol Laboratories, assignee: *See*—
Speeter, Merrill E.

Bristol Laboratories Inc., assignee: *See*—
Wheatley, William B.

Britton, Edgar C.: *See*—
Vander Weele, John C., Britton, and White.

Brooker, Leslie G. S., and F. L. White, assignors to Eastman Kodak Company, Rochester, N. Y. 2-thiohydantoins containing a carboxyaryl group and preparation. 2,649,459, Aug. 18.

Brooks, Irwin, Merrick, and A. Friedberg, Lynbrook, assignors to American Artists' Color Works, Inc., Brooklyn, N. Y. Artist's box. 2,648,933, Aug. 18.

Brooks, James C., and R. T. Gardner, Albertville, Ala. Motor operated cutter. 2,648,904, Aug. 18.

Brooks, Lewis C., assignor of one-third to I. M. Jones, Milwaukee, Wis. Consumer type container. 2,649,238, Aug. 18.

Brown, Boyd B., San Francisco, Calif. Electrical low pressure flat tire indicator. 2,649,519, Aug. 18.

Brown, Charles H., Breckenridge, Tex. Moldboard adjustment for V-type ditching machines. 2,648,919, Aug. 18.

Brown, Charles H., Breckenridge, Tex. Fluid pressure operator for roll-over scrapers. 2,648,921, Aug. 18.

Brown, Charles V. W., Brisbane, Queensland, Australia. Antiglare eyeshade. 2,648,844, Aug. 18.

Brown Fintube Company, assignee: *See*—.
Brown, John W., Jr.

Brown, Harold P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of plastic condensable alkyl acrylate polymers and subsequent elasto-condensation thereof. 2,649,439, Aug. 18.

Brown, John W., Jr., Lakewood, assignor to Brown Fintube Company, Elyria, Ohio. Air cooler. 2,649,285, Aug. 18.

Brown, Ralph: *See*—
Owen, Harold R., and Brown.

Brown, Sol H., San Francisco, Calif. Chair fitting device. 2,648,910, Aug. 18.

Brown, William E., Patricia, Tex. Bale band tie buckle. 2,648,880, Aug. 18.

Browne, Harry A.: *See*—
Allyn, William N., Cook, Browne, Scott, and Carroll.

Bruson, Herman A., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Handling polymeric compositions. 2,649,356, Aug. 18.

Bruson, Herman A., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Copolymers of acrylonitrile and basic acrylamides. 2,649,438, Aug. 18.

Bryant, Otis F., Bismarck, N. Dak. Calculating calendar. 2,649,248, Aug. 18.

Budzyna, Theodore P., Worcester, Mass. Dustpan. 2,648,959, Aug. 18.

Bundy Tubing Company, assignee: *See*—
Payne, Arthur W.

Bur, Armand, Cleveland, assignor of one-half to J. F. and J. W. Robb, Cleveland Heights, and F. B. Robb, Cleveland, Ohio. Method and apparatus for gas sampling and recording analyses and temperatures. 2,648,976, Aug. 18.

Burchett, Ray L., East Orange, assignor to Ronson Art Metal Works, Inc., Newark, N. J. Pen construction. 2,649,074, Aug. 18.

Burger, Gustav F., Camden, and J. H. Reisner, Collingswood, N. J., assignors to Radio Corporation of America. Gasket seal for laterally adjustable joints. 2,649,313, Aug. 18.

Burgess, Louis, Jersey City, N. J. Coffee maker. 2,649,041, Aug. 18.

Burndept Limited, assignee: *See*—
Linton, Alfred, and Lewis.

Burndy Engineering Company, Inc., assignee: *See*—
Dupre, Henry P.

Burrell, Kenneth D., and R. C. Latson, Zephyrhills, Fla. Pressure-starting motor control device. 2,649,552, Aug. 18.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Barrett, Paul A.

Cady, Malcolm J., Stoughton, Mass. Control valve for air compressor systems. 2,649,241, Aug. 18.

Calabrese, Flavian P.: *See*—
Hempel, Herbert W., and Calabrese.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Recovery of dialkyl amides from polyacrylonitrile spinning baths. 2,649,481, Aug. 18.

Calhoun, James C., New Haven, W. L. Davidson, Canterbury, Conn., and K. J. Hansen, Forest Hills, N. Y., assignors to Olin Industries, Inc., New Haven, Conn. Counter display for flashlights and batteries. 2,649,348, Aug. 18.

Calkins Manufacturing Company, assignee: *See*—
Guyer, Morris W.

Carboni, Rudolph A.: *See*—
Regna, Peter P., Carboni, and Timreck.

Carlson, Lewis J.: *See*—
Bock, Louis H., and Carlson.

Carlson, Oscar E., Paterson, N. J. Counterelectromotive force derivation circuit. 2,649,572, Aug. 18.

Carnes, Joseph J., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Long-chain alkylbenzenesulfonamideethylene oxide condensation products. 2,649,478, Aug. 18.

Carpenter, Marshall M., Jr.: *See*—
Barco, Allen A., Bliss, and Carpenter.

Carrier Corporation, assignee: *See*—
Berestneff, Alexis A.
Fletcher, James L., and Osborne.

Carroll, John M.: *See*—
Allyn, William N., Cook, Browne, Scott, and Carroll.

Carson, Howard, and C. L. Mussey, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Engine controller. 2,649,161, Aug. 18.

Carson, William G.: *See*—
Witt, Ralph K., Carson, and Raskin.

Carter Carburetor Corporation, assignee: *See*—
Baisch, John C.
Ericson, George R.

Carver, George P.: *See*—
Wooldridge, Marion J., and Carver.

Cary, John E.: *See*—
Shafer, Russell E., and J. E. and V. Cary.

Cary, Valerie: *See*—
Shafer, Russell E., and J. E. and V. Cary.

Casper, Louis, Richmond Hill, assignor to Electrotext Corp., New York, N. Y. Embroidery machine and coded-tape control means. 2,649,065, Aug. 18.

Catalina, Inc., assignee: *See*—
Nogler, Raymond S., and Menzies.

Celanese Corporation of America, assignee: *See*—
MacLean, Alexander F.

Central Commercial Industries, Inc., assignee: *See*—
Anderson, Walter J.

Centre National de la Recherche Scientifique, assignee: *See*—
Morel, Roger.

Chapman, Edward C., and R. E. Lorentz, Jr., Chattanooga, Tenn., assignors to Combustion Engineering, Inc. Butt welding tube ends by induction heating. 2,649,527, Aug. 18.

Chenicek, Joseph A., Bensenville, assignor to Universal Oil Products Company, Chicago, Ill. Substituted carbamic acid esters as surface active agents. 2,649,473, Aug. 18.

Chernack, Molly, Brooklyn, N. Y. Hair curler. 2,649,097, Aug. 18.

Chesnavich, John: *See*—
Koenig, Edward H., and Chesnavich.

Chesnes, Albert A.: *See*—
Dressler, Robert, and Chesnes.

Chestnut Farms-Chevy Chase Dairy Company, assignee: *See*—
Powell, Charles K.

Chicago Roller Skate Company, assignee: *See*—
Ware, Walter.

Chicopee Manufacturing Corporation, assignee: *See*—
Simon, Simon A., and Drelich.

Childress, Randall J.: *See*—
Schaetzel, Donald E., and Childress.

Christos, Gregory A., Charleston, S. C. Automatic window cleaner. 2,648,866, Aug. 18.

Ciba Limited, assignee: *See*—
Zickendraht, Christian.

Cincinnati Butchers' Supply Company, The, assignee: *See*—
Schmidt, Carl O., Jr., and Zaenkert.

Cisne, Luther E., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Filamentary cathode support structure. 2,649,553, Aug. 18.

Cisek, Frank G., assignor to American Steel Foundries, Chicago, Ill. Pressure selector valve. 2,649,113, Aug. 18.

Clark, John R.: *See*—
Walter, Lewis A., Barry, and Clark.
Cleveland Rug Cleaning Machinery Co., assignee: *See*—
Jones, Kenneth C., and Collins.
Cloud, William S., Wilmette, Ill. Apparatus for making stiffened wrappers. 2,649,035, Aug. 18.
Cobb, Harold E., Aurora, and W. C. Furnas, assignors to Furnas Electric Company, Batavia, Ill. Magnetic switch. 2,649,521, Aug. 18.
Cochrane, Richard M.: *See*—
Tapp, Harry F., and Cochrane.
Coe Manufacturing Company, The, assignee: *See*—
Parker, Clarence E.
Colburn, Richard F., assignee: *See*—
Giberson, Samuel H.
Colgate-Palmolive-Peet Company, assignee: *See*—
Compa, Russell E.
Collingsworth, Donald R.: *See*—
Haines, William J., and Collingsworth.
Collins, Lewis L.: *See*—
Jones, Kenneth C., and Collins.
Columbia-Southern Chemical Corporation, assignee: *See*—
Michaelis, John L.
Columbus McKinnon Chain Corporation, assignee: *See*—
Devonshire, William H.
Combustion Engineering, Inc., assignee: *See*—
Chapman, Edward C., and Lorents.
Van Brunt, John.
Commercial Solvents Corporation, assignee: *See*—
Young, Vernon V.
Compa, Russell E., Bogota, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Plodded high moisture soap and making same. 2,649,417, Aug. 18.
Compagnie Electro-Mecanique, assignee: *See*—
Darrieus, Georges.
Condon, John C., Oak Park, Ill., assignor of one-half to W. K. Munson, Red Bank, N. J. Sales ticket cartridge. 2,649,193, Aug. 18.
Condon, Raymond J., Osborn, Ohio, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Liquid level indicating apparatus. 2,648,982, Aug. 18.
Connolly, John J.: *See*—
Finizie, Tomun, and Connolly.
Consolidated Electric Company, assignee: *See*—
Adler, Robert.
Continental Can Company, Inc., assignee: *See*—
Dodge, Thomas C.
Johnson, Scott R., and Walter.
Cook, Charles S.: *See*—
Allyn, William N., Cook, Browne, Scott, and Carroll.
Cook, Gordon H., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective of variable focal length. 2,649,025, Aug. 18.
Coover, Harry W., Jr., Kingsport, Tenn., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Polymerization of acrylonitrile in the presence of preformed polymers. 2,649,434, Aug. 18.
Cope, John E., assignor to Pye Limited, Cambridge, England. Television transmitting apparatus. 2,649,501, Aug. 18.
Cordis, Nat, Silver Lake, Wis. Demountable U-link chain for barn cleaners. 2,648,989, Aug. 18.
Corey, William G.: *See*—
Harbert, Lloyd C., and Corey.
Cornett, Jesse R., assignor to Seismograph Service Corporation, Tulsa, Okla. Transducer testing apparatus. 2,648,979, Aug. 18.
Corry, John N., Toronto, Ontario, Canada. Instrument for measuring speed of shafts, and the like. 2,649,010, Aug. 18.
Courtaulds Limited, assignee: *See*—
Happey, Frank, and Wormell.
Cox, Charles W., St. Albans, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Device for removing liquid from filamentary strands. 2,648,965, Aug. 18.
Cox, Earle P., deceased, Columbus, Miss.; L. M. Cox, administratrix. Clutch and brake device. 2,649,174, Aug. 18.
Cox, Lucile M., administratrix: *See*—
Cox, Earle P.
Crabtree, John I.: *See*—
Rasch, Arthur A., Henn, and Crabtree.
Cragg, William D.: *See*—
Gayford, Michael L., and Cragg.
Craig, Burnie J., Los Angeles County, Calif. Bolt assembly. 2,649,323, Aug. 18.
Craig, Samuel T.: *See*—
Mayer, Charles M., and Craig.
Craig, W. E.: *See*—
Strong, James S., Craig, and Elkind.
Creed and Company Limited, assignee: *See*—
Munck, Leslie S.
Crewson, Allen M., Cloquet, assignor to Wood Conversion Company, St. Paul, Minn. Air-laying fiber felts. 2,649,394, Aug. 18.
Cross, James M.: *See*—
Sundberg, Robert L., Albus, and Cross.
Crowder, John T., Sherman Oaks, Calif. Novelty cap. 2,648,847, Aug. 18.
Cumming, George T., assignor to William Volker and Company of Missouri, Inc., Kansas City, Mo. Making Venetian blind slats. 2,648,393, Aug. 18.
Curtis, George W., Wauwatosa, Wis. Variable-speed V-belt transmission. 2,648,987, Aug. 18.
Dalby, Eric, Leeds, England. Graphical recording and indicating apparatus. 2,648,915, Aug. 18.
Dan River Mills, Inc., assignee: *See*—
Newton, Russell B., and Williamson.
Darling, Earl N., Pocatello, Idaho. Blackboard eraser. 2,648,863, Aug. 18.
Darrieus, Georges, Maunoury, Houilles, assignor to Compagnie Electro-Mecanique, Paris, France. Fairing for high-speed devices. 2,649,266, Aug. 18.
Dasher, Don E., Birmingham, Mich. Rotary pump and motor hydraulic transmission. 2,648,952, Aug. 18.
Davey, James R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic subscriber's loop telegraph repeater. 2,649,504, Aug. 18.
Davidson, Wilbur L.: *See*—
Calhoun, James C., Davidson, and Hansen.
Davis, Clyde O., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive package. 2,649,046, Aug. 18.
Davis, Harry I., assignor to Eastman Kodak Company, Rochester, N. Y. Light-sensitive photographic element. 2,649,375, Aug. 18.
Davis, Lincoln K., Brockton, Mass. Prestressing structural members. 2,648,895, Aug. 18.
Dearborn Motors Corporation, assignee: *See*—
Miller, Raymond J.
Sawyer, Frederick D.
Deardorff, Clinton E., San Fernando, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Pressure-responsive mechanism. 2,649,115, Aug. 18.
Deisaner, Douglas D., Spokane, Wash. Foldable wheel chair and steerable wheel attachment therefor. 2,649,309, Aug. 18.
Delorme, Lucien, assignor to Societe Anonyme dite: Etablissements Ducellier, Paris, France. Contact breaker of ignition systems for internal-combustion engines. 2,649,515, Aug. 18.
Denison Engineering Company, The, assignee: *See*—
Adams, Cecil E., and Born.
Dessert, Leo, Epinay, Marcel Abel, La Courneuve, and Georges Rua, Saint-Oeun, France. Centrifugally operated regulating device. 2,649,292, Aug. 18.
Deutscher, Abe: *See*—
Miller, Julius, and Deutscher.
Deveau, Melvin J., Beverly, Mass. Knockdown bookholder. 2,648,931, Aug. 18.
Devonshire, William H., Williamsville, assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Tire chain fastener. 2,648,881, Aug. 18.
Dewhirst, Paul A., assignee: *See*—
Hamer, Leland S.
Dextran Limited, assignee: *See*—
Stacey, Maurice and Overend.
Dibdin, Thomas J. R., Maghull, Liverpool, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Centrifugal pump. 2,649,650, Aug. 18.
Dickey, Joseph B.: *See*—
Coover, Harry W., Jr., and Dickey.
Stanin, Theodore E., and Dickey.
Dickey, Joseph B., and G. J. Taylor, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. 2,4 - bis(methylsulfonyl) - benzeneazo - n - hydroxyalkyl-n-β-cyanoethylaniline compounds. 2,649,440, Aug. 18.
Dickson, John, assignor of one-half to W. J. Prendergast, Jr., Portland, Oreg. Silo charging and emptying machine. 2,649,215, Aug. 18.
Diesel, Richard H., Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Tumbler lock with freely rotating key plug. 2,648,972, Aug. 18.
Dietz, John J., New Milford, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Radiant heating system. 2,649,530, Aug. 18.
Distillers Company Limited, The, assignee: *See*—
Bellringer, Frederick J., Bewley, Snell, and Turck.
Jacobs, David I. H., Hadley, and Heap.
Dixon, Logan T., Elizabethtown, Ky. Protective cover. 2,648,932, Aug. 18.
Dodge, Thomas C., Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Automatic can distributor. 2,649,184, Aug. 18.
Doerfner, William H., and J. C. Heiveston, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Ball nut and lever steering gear. 2,648,994, Aug. 18.
Doerfner, William H., and J. C. Heiveston, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Ball nut and lever steering gear. 2,648,995, Aug. 18.
Doft, Max, assignee: *See*—
Hayes, Clyde B.
Dolan, George A.: *See*—
Smith, Harry B., and Dolan.
Dow Chemical Company, The, assignee: *See*—
Huscher, Myron E., Long, and Moore.
Raynor, Richard N., and Stewart.
Swezey, Arthur W.
Vander Weele, John C., Britton, and White.
Young, David C.
Dow, Harold T., Elma, N. Y. Leaf spring assembly. 2,649,296, Aug. 18.
Dow, Harold T., Elma, N. Y. Leaf spring assembly. 2,649,297, Aug. 18.





Drake, Willard M., Jr., Haddonfield, N. J. Flowmeter. 2,648,081, Aug. 18.
Drelich, Arthur H.: *See*—
Simon, Simon A., and Drelich.
Dressler, Robert, Elmont, and A. A. Chesnes, Elmhurst, assignors, by mesne assignments, to Paramount Pictures Corporation, New York, N. Y. Crystal light valve for sound-on-film recording. 2,649,507, Aug. 18.
Duncan, Angus W., assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Belt conveyer driving unit. 2,649,188, Aug. 18.
Duncan, Harry H., Milan, Tenn., and J. W. Volner, Chandler, Ariz. Auxiliary spacer for dual tire wheel assemblies. 2,649,338, Aug. 18.
Dungler, Julien, Basel, Switzerland. Web feed means for rotary printing machines. 2,649,044, Aug. 18.
Dunlop Tire and Rubber Corporation, assignee: *See*—
Dibdin, Thomas J. R.
McChesney, Cuyler S.
Dunn, George W., Berea, Ohio. Depth control device for fishing tackle. 2,648,929, Aug. 18.
Dunn, Roland H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,649,580, Aug. 18.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Balthrop, Edward S., Jr.
Davis, Clyde O.
Hermann, Edward C.
Killian, Donald B., and Reidinger.
Marvel, Carl S.
McDonald, Robert E.
Pollman, Ralph C.
Dupre, Henry P., Croton-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc. Wedge type wire connector. 2,648,883, Aug. 18.
Dupre, Henry P., Croton-on-Hudson, N. Y., assignor to Burndy Engineering Company, Inc. Power-operated tool with automatic control valve system. 2,649,076, Aug. 18.
Durabia Manufacturing Co., assignee: *See*—
Blackford, Raymond H.
Durable Mat Company, assignee: *See*—
Schuyler, Fred B.
Durrschmidt, Paul, Munich, Germany. Tufting machine. 2,649,064, Aug. 18.
Eames, Charles, West Los Angeles, Calif., assignor, by mesne assignments, to Herman Miller Furniture Company, Zeeland, Mich. Furniture shock mount construction. 2,649,136, Aug. 18.
Eastman Kodak Company, assignee: *See*—
Altman, Fred E.
Brooker, Leslie G. S., and White.
Caldwell, John R.
Coover, Harry W., Jr., and Dickey.
Davis, Harry I.
Dickey, Joseph B., and Taylor.
Egan, John F.
Fuller, Richard N.
Neighbors, Roscoe F.
Parsons, William F., and Little.
Rasch, Arthur A., Henn, and Crabtree.
Richardson, Winfield S.
Schnetzer, George W., Jr.
Stanin, Theodore E., and Dickey.
Eaton, Gerald L., Lansdowne, assignor to United Engineers & Constructors Inc., Philadelphia, Pa. Coke-oven by-product recovery. 2,649,403, Aug. 18.
Eaton, Gerald L., Lansdowne, assignor to United Engineers & Constructors Inc., Philadelphia, Pa. Coke-oven by-product recovery. 2,649,405, Aug. 18.
Eck, John C.: *See*—
Porter, Frank, and Eck.
Edison, Thomas A., Incorporated, assignee: *See*—
Dietz, John J.
Kelly, Frederick G.
Edmonds, Harvey A., assignor to Swift & Company, Chicago, Ill. Bag opening process and machine, including movable bag opening arms. 2,649,235, Aug. 18.
Egan, John F., assignor to Eastman Kodak Company, Rochester, N. Y. Document-actuated device for effectively delaying a switching interval. 2,649,517, Aug. 18.
Eggenberger, Hans: *See*—
Von Allmen, Samuel, and Eggenberger.
Eggleston, Ira S., St. Paul, assignor to Standard Conveyor Company, North St. Paul, Minn. Power-driven diverter attachment for conveyers. 2,649,187, Aug. 18.
Eldorado Mining and Refining (1944) Limited, assignee: *See*—
Green, Donald T.
Electric Auto-Lite Company, The, assignee: *See*—
Launder, James M.
Electrical Products Corporation, assignee: *See*—
Owen, Harold R., and Brown.
Electrotext Corp., assignee: *See*—
Casper, Louis.
Elkind, Vincent T.: *See*—
Strong, James S., Craig, and Elkind.
Ellett, Alexander, River Forest, Ill., assignor to Zenith Radio Corporation. Blanking arrangement for subscription television receivers. 2,649,498, Aug. 18.
Ellsworth, Ransom C., assignor to The Ohio Boxboard Company, Rittman, Ohio. Sealed container. 2,649,239, Aug. 18.
Emsco Manufacturing Company, assignee: *See*—
Ashton, Albert A.
Engineering Controls, Inc., assignee: *See*—
Harbert, Lloyd C., and Corey.
Engstrom, Fanny M., administratrix: *See*—
Engstrom, Gustav.
Engstrom, Gustav, deceased, East McKeesport, Pa., F. M. Engstrom, administratrix. Rotary steam drier. 2,648,914, Aug. 18.
Enthone, Incorporated, assignee: *See*—
Springer, Richard, and Meyer.
Erickson, Karl: *See*—
Vastano, Frederick A., Erickson, and St. Jean.
Erickson, Virginius R.: *See*—
Farnsworth, Richard, Erickson, and Webber.
Erieson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel feed system. 2,649,051, Aug. 18.
Erling, Sven J., Nockeby, assignor to Aktiebolaget Separator, Stockholm, Sweden. Currying machine for connection with vacuum systems. 2,648,867, Aug. 18.
Etchison, Floyd W., assignee: *See*—
Richardson, Vernon C. H.
Ethyl Corporation, assignee: *See*—
Hodge, Benjamin E.
Everhart, John L.: *See*—
Smith, Albert A., Jr., and Everhart.
Eves, Joseph R., assignor to American Optical Company, Southbridge, Mass. Device for testing impact resistance of frangible articles. 2,648,975, Aug. 18.
Faats, Albert C., Jr.: *See*—
Benedict, Manson, Faats, and Woebcke.
Fabrney, Delmer S., U. S. Navy. Apparatus for remote control bombing. 2,649,262, Aug. 18.
Fairbanks, Jerry B., Los Angeles, Calif. Picture and sound synchronizing method and system. 2,649,016, Aug. 18.
Fallon, John E., Huntington Park, assignor, by mesne assignments to Barclay Pharmaceutical Products Company, Inc., Pasadena, Calif. Hygienic syringe. 2,649,089, Aug. 18.
Farmland Irrigation Company, Inc., assignee: *See*—
Stout, William H., and Pearson.
Farnsworth, Richard, V. R. Erickson, and C. R. Webber, assignors to Powder Power Tool Corporation, Portland, Oreg. Safety pad for stud driving tools. 2,648,840, Aug. 18.
Farr, Cecil K., assignee: *See*—
Richardson, Vernon C. H.
Fate, Jessee E., Jr., Tulsa, Okla. Snatch block. 2,649,282, Aug. 18.
Feder, Abraham H., New York, N. Y. Recessed lighting fixture with adjustable spotlight. 2,649,535, Aug. 18.
Federal Electric Products Company, assignee: *See*—
Ballou, Richard P.
Federal Telephone and Radio Corporation, assignee: *See*—
Bloom, Mortimer C., and Levy.
Von Hippel, Arthur, and Bloom.
Fedorchak, William J., Granite City, Ill., assignor to Owens-Illinois Glass Company. Inspecting apparatus. 2,649,500, Aug. 18.
Feich, Edwin P., Jr., and F. G. Merrill, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetometer. 2,649,568, Aug. 18.
Fennell, Frank, Chicago, Ill. Hole burring tool. 2,649,001, Aug. 18.
Fenwal Laboratories, Inc., assignee: *See*—
Murphy, William P., Jr.
Ferguson, J. L., Company, assignee: *See*—
Ferguson, John L., and Talbot.
Ferguson, John L., and R. C. Talbot, assignors to J. L. Ferguson Company, Joliet, Ill. Automatic case loading method and apparatus. 2,649,231, Aug. 18.
Ferguson, John L., and R. C. Talbot, assignors to J. L. Ferguson Company, Joliet, Ill. Method and apparatus for handling articles. 2,649,232, Aug. 18.
Fero, Claude L., Stoneham, Mass. Horizontal boom swivel device for locomotive cranes. 2,640,211, Aug. 18.
Finizie, Tomun, Bridgeport, Conn., and J. J. Connolly, Pelham Manor, N. Y., said Finizie assignor to Bayus Electric, Incorporated, Bridgeport, Conn. Gummed tape printing device. 2,649,045, Aug. 18.
Finkel Umbrella Frame Company, Inc., The, assignee: *See*—
Militano, Vincent.
Flagstad, Oscar A., Minneapolis, Minn. Collapsible mop. 2,648,859, Aug. 18.
Flam, John, assignee: *See*—
Winger, Stover C.
Fleisher, Harry, assignee: *See*—
Hayes, Clyde B.
Fletcher, James L., Fayetteville, and S. C. Osborne, assignors to Carrier Corporation, Syracuse, N. Y. Ice maker. 2,648,956, Aug. 18.
Flynn, George M., Oak Park, Ill. Batch processing discrete articles. 2,649,380, Aug. 18.
Forestal Land, Timber and Railways Company, Limited, The, assignee: *See*—
White, Theodore, and Hastings.
Fortin, Hermas, Hemmingford, Quebec, and A. J. Gosselin, Ste. Blaise, Quebec, Canada. Drag hook. 2,649,327, Aug. 18.

Fowler, Chester C., Evanston, assignor, by mesne assignments, to Marino, Inc., Chicago, Ill. Abrasive composition. 2,649,362, Aug. 18.

Franks, Alton L., West Palm Beach, Fla. Folding receptacle holder. 2,649,270, Aug. 18.

Franz, Erwin E., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Mounting head for coil terminals. 2,649,558, Aug. 18.

Frech, Walter E., Lucerne, Switzerland. Dishwashing machine. 2,649,100, Aug. 18.

French, George F. and R., Manchester, England. Sliding shoe curtain support. 2,648,869, Aug. 18.

French, Roger: *See*—
French, George F. and R.

Frick, Chester A., Glendale, assignor to L. M. Harvey, Los Angeles, Calif. Machine for recording time on and storing coin carriers. 2,649,352, Aug. 18.

Friedberg, Alan: *See*—
Brooks, Irwin and Friedberg.

Friedman, Abraham, assignee: *See*—
Smullen, Philip.

Fry, Douglas J.: *See*—
Kendall, John D., and Fry.

Fuehring, Karl T., Hollydale, assignor of one-half to C. E. Moose, Los Angeles, Calif. Diaphram actuated electrical switch. 2,649,518, Aug. 18.

Fuller Brush Company, The, assignee: *See*—
Anderson, Alfred F.
Le Febvre, Alfred L.

Fuller, Everett W.: *See*—
Richter, Frederick P., and Fuller.

Fuller, James J., Rolla, Mo. Cigarette extinguishing device. 2,649,096, Aug. 18.

Fuller, Richard N., assignor to Eastman Kodak Company, Rochester, N. Y. Sheet-feeding and turning apparatus. 2,649,303, Aug. 18.

Funke, Fred W., Oakland, Calif. Portable spray pump. 2,649,335, Aug. 18.

Furnas Electric Company, assignee: *See*—
Cobb, Harold E., and Furnas.

Furnas, William C.: *See*—
Cobb, Harold E., and Furnas.

Gaetani, Robert A., Norfolk, Va., and E. C. Vestal, Jr., U. S. Navy. Radio frequency ignition system analyser and interference locator. 2,649,567, Aug. 18.

Gaidos, Alonzo F., Redwood City, Calif. Selective fire converter for semiautomatic firearms. 2,649,030, Aug. 18.

Gaidos, Alonzo F., Redwood City, Calif. Fire control mechanism. 2,649,031, Aug. 18.

Gair, Robert, Company, Inc., assignee: *See*—
Rossi, Harry J., and Weiss.

Gardner, Roy T.: *See*—
Brooks, James C., and Gardner.

Garlinghouse Brothers, assignee: *See*—
Wooldridge, Marin J., and Carver.

Garlock Packing Company, The, assignee: *See*—
Hills, Leander H.

Garvalt, Henry and D. D. Pettigrew, Milwaukee, Wis. Shoe counter production machine. 2,648,853, Aug. 18.

Gaudrean, Gedeon F.: *See*—
Begle, Howell E., and Gaudrean.

Gayford, Michael L., and W. D. Cragg, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Negative feedback applied to magnetic recording. 2,649,506, Aug. 18.

Gaynor, Edwin G., Fairfield, Conn. Switch. 2,649,511, Aug. 18.

Gemex Company, assignee: *See*—
Prestinari, Eugen F., and Sand.

General Aniline & Film Corporation, assignee: *See*—
Bloom, Albert.
Streck, Clemens.
Sundberg, Robert L., Albus, and Cross.
Williams, William W., and Strobel.

General Electric Company, assignee: *See*—
Avery, Howard W.
Ipsen, Peter G.
Suits, Chauncey G.

General Mills, Inc., assignee: *See*—
Aelony, David.
Schaetzel, Donald E., and Childress.

General Motors Corporation, assignee: *See*—
Bacon, Elbridge F.
Bratton, David H., and Wernig.
Carson, Howard, and Muszey.
Doerfner, William H., and Helveston.
McDougal, Taine G.
Schamel, Clyde H., and Mackie.
Smith, Glen A.

General Precision Laboratory Incorporated, assignee: *See*—
Zaleski, John F.

General Railway Signal Company, assignee: *See*—
Preston, Nell D.

Getz, Delmond L.: *See*—
Rausenberger, Larence E., and Getz.

Giambiasi, John E., Philadelphia, Pa. Gauge. 2,648,911, Aug. 18.

Giberson, Samuel H., assignor to R. R. Colburn, Kansas City, Mo. Concrete gun. 2,649,289, Aug. 18.

Gibson Electric Company, assignee: *See*—
Harvey, Cecil L.

Gibson, John D., Lockhart, S. C. Clearer tensioning device. 2,648,875, Aug. 18.

Giguere, Albert E., Elizabeth, N. J. Antirattling device for windows. 2,649,326, Aug. 18.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Tapp, Harry F., and Cochrane.

Gilbert, Clyde L., Elkhart, Ind. Blank for box production. 2,649,240, Aug. 18.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Wadsworth, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Solutions of vinylidene cyanide interpolymers in an organic nitrile. 2,649,426, Aug. 18.

Gilfillan Bros., Inc., assignee: *See*—
Tasker, Homer G., Hiebert, Kelsey, and Osborne.

Glass, Paul, assignor to Askania Regulator Company, Chicago, Ill. Function generator. 2,649,542, Aug. 18.

Gleason Works, assignee: *See*—
Wildhaber, Ernest.

Gledhill, John H., Philadelphia, Pa. Insulator clevis attachment. 2,649,319, Aug. 18.

Glen, William L., Baie d'Urfe, G. S. Myers, Ville St. Laurent, and G. Papineau-Couture, Montreal, assignors to Ayerst, McKenna & Harrison, Limited, Quebec, Quebec, Canada. Preparation of a hypotensive agent from veratrum viride. 2,649,442, Aug. 18.

Goldberg, Aaron S., New York, assignor to Nepera Chemical Co., Inc., Yonkers, N. Y. 4-amino-5-benzylpyrimidine compounds. 2,649,448, Aug. 18.

Goldberg, Aaron S., New York, assignor to Nepera Chemical Co., Inc., Yonkers, N. Y. 2-cyclohexylamino-4-amino-5-benzylpyrimidine. 2,649,449, Aug. 18.

Goldberg, Harold D. and M. I., Bronx, N. Y. Area measuring device. 2,649,573, Aug. 18.

Goldberg, Milton I.: *See*—
Goldberg, Harold D. and M. I.

Goldhamer, Leo, Munich, Germany. Lens and shutter combination mounting. 2,649,024, Aug. 18.

Goldrick, Cyril R., assignor to Leach Company, Oshkosh, Wis. Material coating vehicle. 2,649,216, Aug. 18.

Goodman, Robert C.: *See*—
Hardie, Fred H., Goodman, and Van Valkenburg.

Goodrich, B. F., Company, The, assignee: *See*—
Brown, Harold P.
Gilbert, Harry, and Miller.
Luke, Marvin B.
Vesce, Vincent C.

Goodrich, Nathan, Brooklyn, N. Y. Combination article of furniture. 2,649,349, Aug. 18.

Gordon, Aaron: *See*—
Gordon, Harry B. and A.

Gordon, Harry B., Glenview, and A. Gordon, Chicago, Ill. Windshield wiper. 2,648,865, Aug. 18.

Gosselin, Antoine J.: *See*—
Fortin, Hermas, and Gosselin.

Gosselin, Raymond A., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Mounting device. 2,649,271, Aug. 18.

Gosselin, Wilfrid J., Methuen, assignor to U. S. Bobbin & Shuttle Company, Lawrence, Mass. Weaving shuttle with thread-cutting anvil. 2,649,119, Aug. 18.

Gould-National Batteries, Inc., assignee: *See*—
Kennedy, Henry A.

Graham & Barker, assignee: *See*—
Graham, George C.

Graham, George C., assignor, by mesne assignments, to Graham & Barker, Ridgewood, N. J. Washing machine. 2,648,964, Aug. 18.

Gramelspacher, Clarence U., Jasper, Ind. Pulp wood product and manufacturing. 2,649,034, Aug. 18.

Grand Union Company, The, assignee: *See*—
Shield, Lansing P.

Grant, Andrew G.: *See*—
Grant, David A. and A. G.

Grant, Charles H., New Rochelle, N. Y. Airplane with stabilising fins. 2,649,265, Aug. 18.

Grant, Connie, trustee, assignee: *See*—
Grant, David A. and A. G.

Grant, David A., Seattle, Wash., and A. G. Grant, New York, N. Y., assignors to A. G., D. A., and C. Grant and T. Marshall, as trustees of D. H. Grant, deceased. Machine for cutting and loading corn and like crops. 2,648,942, Aug. 18.

Grant, David H., assignee: *See*—
Grant, David A. and A. G.

Grant, Gordon A.: *See*—
Beall, Desmond, and Grant.

Green, Donald T., assignor to Eldorado Mining and Refining (1944) Limited, Ottawa, Ontario, Canada. Beam therapy unit. 2,649,549, Aug. 18.

Greenamyer, George P., Monrovia, Calif. Pilot burner with built-in thermocouple. 2,649,490, Aug. 18.

Greenberg, Irving M., New York, N. Y. Radiographic clinometer. 2,649,548, Aug. 18.

Greissinger, Georg, Stuttgart-Vaihingen, Germany. Shoe with heel. 2,648,916, Aug. 18.

Greist Manufacturing Company, The, assignee: *See*—
Russell, Herbert H.

Gremling, Donovan P., Shelby, Ohio. Seamless tube drawing tool. 2,649,002, Aug. 18.

Griffon, Gaston, Neuilly-sur-Seine, France, assignor to Societe Solex. Carburetor. 2,649,290, Aug. 18.

Gross, Charles, Englewood, N. J. Ribbon holding device and the like. 2,649,198, Aug. 18.

Gulf Research & Development Company, assignee: *See*—
Harrison, James M., and Somers.





Gulland, Donald A., Detroit, Mich. Removable clamp shoe with tiltable work engaging element. 2,649,123, Aug. 18.

Gustin-Bacon Manufacturing Company, assignee: *See*—
Phillips, Marion W.

Guyer, Morris W., assignor to Calkins Manufacturing Company, Spokane, Wash. Pump drive. 2,648,986, Aug. 18.

Hadley, David J.: *See*—
Jacobs, David I. H., Hadley, and Heap.

Haines, William J., and D. R. Colingsworth, assignors to The Upjohn Company, Kalamazoo, Mich. Steroid oxidation. 2,649,401, Aug. 18.

Hajek, Louis, Jackson Heights, assignor to Holub-Dusha Co., New York, N. Y. Blank grinding machine. 2,648,936, Aug. 18.

Halpine, Charle G., Annapolis, Md. Bitt-chuck. 2,649,069, Aug. 18.

Hamer, Leland S., Long Beach, assignor of one-fourth to P. A. Dewhirst, Los Angeles, Calif. Pipe line fitting. 2,649,117, Aug. 18.

Hammond, John H., Jr., Gloucester, Mass. Magnetic mixer. 2,649,288, Aug. 18.

Handley, John, Purley, England, assignor to The Union Totalisator Company, Limited, Glasgow, Scotland. Counting mechanism. 2,649,249, Aug. 18.

Hannibal, Lester S., Concord, assignor to Shell Development Company, San Francisco, Calif. Method and apparatus for dissolving solutes in liquids. 2,649,203, Aug. 18.

Hansen, Hans E., New York, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Moving stairway. 2,649,181, Aug. 18.

Hansen, Karl J.: *See*—
Calhoun, James C., Davidson, and Hansen.

Happey, Frank, Bingley, and R. L. Wormell, Coventry, assignors to Courtaulds Limited, London, England. Production of artificial protein threads, fibers, filaments, and the like. 2,649,357, Aug. 18.

Harbert, Lloyd C., Los Angeles, and W. G. Corey, Altadena, assignors to Engineering Controls, Inc., Los Angeles, Calif. Engine cooling system utilising waste heat. 2,649,082, Aug. 18.

Hardie, Fred H., Danbury, H. C. Goodman, Bridgeport, and H. E. Van Valkenburg, assignors to Sperry Products, Inc., Danbury, Conn. Reflection absorbing ultrasonic wedge. 2,649,550, Aug. 18.

Hardman, H. V., Company, Inc., assignee: *See*—
Hardman, Kenneth V., and Lang.

Hardman, Kenneth V., Upper Montclair, and A. J. Lang, Cedar Grove, N. J., assignors to H. V. Hardman Company, Inc. Brush and making. 2,648,861, Aug. 18.

Hardwick Stove Company, Incorporated, assignee: *See*—
Hurt, Robert B.

Hardy, Elizabeth M.: *See*—
Hardy, William B. and E. M.

Hardy, Elizabeth M. and W. B., Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of soluble vat dyes of the acridone series. 2,649,453, Aug. 18.

Hardy, William B.: *See*—
Hardy, Elizabeth M. and W. B.

Hardy, William B., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Trialkyl hydroxylamine - sulfur trioxide compounds. 2,649,484, Aug. 18.

Hardy, William B. and E. M., Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Soluble vat dyes of the acridone series. 2,649,452, Aug. 18.

Harkness, Joseph R., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Electric ignition system for internal-combustion engines. 2,649,488, Aug. 18.

Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Cyanoalkyl substituted amine sulfides. 2,649,470, Aug. 18.

Harrington, John, Rapid City, S. Dak. Portable hay-stacker. 2,648,945, Aug. 18.

Harris-Seybold Company, assignee: *See*—
Barley, Leo D.
Spiller, William R.

Harrison, Charles W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Interstage coupling circuit for wideband amplifiers. 2,649,508, Aug. 18.

Harrison, James M., Oakmont, and A. E. Somers, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Separation of acetone and propionaldehyde by azeotropic distillation with chloroform. 2,649,406, Aug. 18.

Harrison, James M., Oakmont, and A. E. Somers, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Separation of ethyl acetate and ethanol by azeotropic distillation with methanol. 2,649,407, Aug. 18.

Hart, Cecil A., Hackensack, N. J. Curtain rod holder. 2,649,289, Aug. 18.

Hartley, Gilbert S., Fulbourn, and D. W. Pound, Harston, assignors to Peet Control Limited, Bourn, England. Phosphorus-containing organic compounds. 2,649,464, Aug. 18.

Hartline, Haldan K., Media, Pa., A. J. Rawson, Frederick, Md., and V. A. Legallais, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Air Force. Contractible head mount for binoculars. 2,649,019, Aug. 18.

Harts, Raymond J., Cuyahoga Falls, assignor to Jack & Heints Precision Industries, Inc., Cleveland, Ohio. Electrical switch. 2,649,520, Aug. 18.

Harvey, Cecil L., Ridgeway, assignor to Gibson Electric Company, Pittsburgh, Pa. Contact. 2,649,525, Aug. 18.

Harvey, Leo M., assignee: *See*—
Frick, Chester A.

Harwood, Douglas S., Hillside, Birkdale, England. Smoker's ash receptacle. 2,649,222, Aug. 18.

Hastings, Jeremy R. B.: *See*—
White, Theodore, and Hastings.

Hastings, Russell, Jr., Wellesley, assignor to Lewis-Shepard Company, Watertown, Mass. Winch. 2,649,281, Aug. 18.

Hauck, Vernon D.: *See*—
Wood, Louvan E., and Hauck.

Hawaiian Canneries Company, Limited, assignee: *See*—
Horner, Albert.

Hawkins, Charles A., deceased, and F. H. Zehrbaugh, assignors to C. A. Hawkins, Fresno, Calif.; O. C. Hawkins and M. B. Anway, coexecutors of said C. A. Hawkins. Soil treating machine. 2,649,060, Aug. 18.

Hawkins, Charles A., deceased, Fresno, and F. H. Zehrbaugh, Los Angeles, Calif.; said Zehrbaugh assignor to said Hawkins; O. C. Hawkins and M. B. Anway, coexecutors of said C. A. Hawkins. Soil treating device. 2,649,061, Aug. 18.

Hawkins, Odella C., co-executrix: *See*—
Hawkins, Charles A., and Zehrbaugh.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Annular rotary work support and tire bead centering device. 2,648,937, Aug. 18.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.

Hayes, Clyde B., Wolcott, assignor of two-thirds to H. Fleisher, Watertown, Conn., M. Doft, Cedarhurst, N. Y., and H. Wilson, Watertown, Conn. Multifilament-responsive thread break detector. 2,648,961, Aug. 18.

Hayes, Dale D., assignor of one-half to P. L. Shadburn, Greensboro, N. C. Cigarette package and matchbook container. 2,649,192, Aug. 18.

Haythornthwaite, James J., Accrington, assignor to T. M. M. (Research) Limited, Helmshore, Rossendale, England. Doffing mechanism for ring spinning, doubling, and twisting machines. 2,648,947, Aug. 18.

Hazel, James F.: *See*—
Wills, John H., and Hazel.

Heap, Robert: *See*—
Jacobs, David I. H., Hadley, and Heap.

Heath, Barrie, Barming, near Maidstone, assignor to Hobourn Aero Components Limited, Sitwood, Rochester, England. Loom picking motion. 2,649,118, Aug. 18.

Helveston, John C.: *See*—
Doerfner, William H., and Helveston.

Hemmi, Hans M., Basel, Switzerland, and P. Trefzer, Milan, Italy, assignors to Sandoz Limited, Basel, Switzerland. Improving fastness properties of direct dyestuffs. 2,649,354, Aug. 18.

Hempl, Herbert W., Belleville, Ill., and F. P. Calabrese, St. Louis, Mo., assignors to Marsh Stencil Machine Company, Belleville, Ill. Stabilized stencil ink. 2,649,381, Aug. 18.

Henn, Richard W.: *See*—
Rasch, Arthur A., Henn, and Crabtree.

Henry, Howard G., Detroit, Mich. Roller bearing nut. 2,648,991, Aug. 18.

Herald, William J., Strathmore, Victoria, and R. Murray, West Brunswick, Victoria, Australia. Detachable heel tread. 2,648,917, Aug. 18.

Hercules Powder Company, assignee: *See*—
Hulse, George E.

Hermann, Edward C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 5-nitro-2-thiophenecarboxaldehyde oxime. 2,649,461, Aug. 18.

Hersey, Arthur J.: *See*—
Hersey, Kenneth J. and A. J.

Hersey, Kenneth J., and A. J. Hersey, Minneapolis, Minn. Knockdown type two-wheel trailer. 2,649,307, Aug. 18.

Hetrick, John W., Newport, Pa. Safety cushion assembly for automotive vehicles. 2,649,311, Aug. 18.

Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Reversible tubular lock mechanism. 2,649,325, Aug. 18.

Heytow, Solomon, and R. H. Peterson, Chicago, Ill. Musical instrument. 2,649,006, Aug. 18.

Hiebert, Alvin L.: *See*—
Tasker, Homer G., Hiebert, Kelsey, and Osborne.

High, Fred A.: *See*—
Zelik, Joseph F., Jennings, and High.

Hilbert, Richard G.: *See*—
Soussloff, Dimitri G., White, and Hilbert.

Hilding, Anderson C., Duluth, Minn. Ski harness. 2,649,306, Aug. 18.

Hills, Leander H., Canandaigua, assignor to The Garlock Packing Company, Palmyra, N. Y. Making sheet material. 2,649,372, Aug. 18.

Himanit Aktiengesellschaft, assignee: *See*—
Just, Konrad.

Hindmarch, Thomas, Chesham, England. Power transmission mechanism. 2,648,990, Aug. 18.

Hinsche, William, Quesnel, British Columbia, Canada. Thong cutting device. 2,648,905, Aug. 18.

Hintz, Otto E., Riverside, Ill., assignor to International Harvester Company. Gatherer for forage harvesters. 2,648,941, Aug. 18.

Hires, Caetner & Harris, Inc., assignee: *See*— Mills, John.

Hirschmann, Jack B.: *See*— Maurer, Frank W., and Hirschmann.

Hirschmann, Jack B., Fairhaven, Mass. Goggles. 2,648,843, Aug. 18.

Hobert Manufacturing Company, The, assignee: *See*— Meeker, David A., and Allen.

Hobert Manufacturing Company, The, assignee: *See*— Heath, Barrie.

Hockery, John C., trustee, assignee: *See*— McLean, Robert E.

Hodge, Benjamin E., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Disposal of sludge from eelctrolytic preparation of sodium. 2,649,413, Aug. 18.

Hofman Laboratories, Inc., assignee: *See*— Sulfrian, Gerard F., and Jacket.

Hoke, Frank J., and R. W. Reynolds, assignors to Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Ind. Folding door construction. 2,649,150, Aug. 18.

Holbeck, Austin A., Detroit, Mich. Apparatus for unloading continuous baking ovens. 2,649,058, Aug. 18.

Holcomb & Hoke Mfg. Co., Inc., assignee: *See*— Hoke, Frank J., and Reynolds.

Holland Company, assignee: *See*— Wulff, Cal W., and Newman.

Holman, Frank H., Jr., Swarthmore, Pa., assignor to Mack Manufacturing Corporation, New York, N. Y. Combined power-assisted and mechanical braking systems for vehicles. 2,649,169, Aug. 18.

Holmes, Henry H., assignor to Wildt and Company Limited, Leicester, England. Knitted ware and producing same. 2,648,963, Aug. 18.

Holmes, Hilliard M., Lake Tahoe, Calif. Device for use in filling cavities in teeth. 2,648,906, Aug. 18.

Holmsten, Neil O., New Rochelle, N. Y. Locking device for window latches. 2,648,967, Aug. 18.

Holmsten, Neil O., New Rochelle, N. Y. Locking device. 2,648,968, Aug. 18.

Holtz, Harry G., Oak Lawn, assignor to Swift & Company, Chicago, Ill. Applicator for sealing packages. 2,649,072, Aug. 18.

Holub-Dusha Co., assignee: *See*— Hajek, Louis.

Homrighous, John H., Oak Park, Ill. Multiplex radiophone communication system. 2,649,540, Aug. 18.

Honegger, Pierre P., Geneva, Switzerland. Device for controlling the passage of a fluid. 2,649,273, Aug. 18.

Hönel, Herbert, Hamburg-Wandsbek, Germany, and H. Manzano, Vienna, Austria. Resol-alkyd resin product. 2,649,433, Aug. 18.

Hoover Company, The, assignee: *See*— Humphrey, Warren A.

Hopkes, Henry, Grosse Pointe, assignor to No-Sag Spring Company, Warren Township, Mich. Spring strip for connecting springs into groups. 2,648,851, Aug. 18.

Horner, Albert, Kapaa, assignor to Hawaiian Canneries Company, Limited, Kapaa, Kauai County, Hawaii. Means of sorting objects by their weight. 2,649,201, Aug. 18.

Houdry Process Corporation, assignee: *See*— Weinrich, William W.

Housel, William E., assignor to Aluminum Products, Inc., Fort Lauderdale, Fla. Folding seat. 2,649,140, Aug. 18.

Hubbard, Albert L., Compton, Calif. Height-adjustable table. 2,649,345, Aug. 18.

Huff, Ernest L., Tarentum, Pa. Apparatus for treating continuous products. 2,649,099, Aug. 18.

Hulse, Alexander B., Dallas, Tex. Mechanical movement. 2,648,903, Aug. 18.

Hulse, George E., assignor to Hercules Powder Company, Wilmington, Del. Adhesive containing a butadiene styrene copolymer. 2,649,425, Aug. 18.

Humphrey, Warren A., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaning device having agitator drive belting in air duct and conversion passageway independent of belting. 2,648,868, Aug. 18.

Hurt, Robert B., assignor to Hardwick Stove Company, Incorporated, Cleveland, Tenn. Broiler door and rack. 2,649,085, Aug. 18.

Huscher, Myron E., M. W. Long, Jr., and J. C. Moore, assignors to The Dow Chemical Company, Midland, Mich. Mixed lower trialkanolamines. 2,649,483, Aug. 18.

Husted, Frank G., Lubbock, Tex. Tie case. 2,649,190, Aug. 18.

Hutchins, Charles C., assignor to Hutchins Electric Company, Inc., Ridgway, Pa. Electric motor. 2,649,561, Aug. 18.

Hutchins Electric Company, Inc., assignee: *See*— Hutchins, Charles C.

Hydrocarbon Research, Inc., assignee: *See*— Benedict, Manson, Faatz, and Woebcke.

Hyman, Henry, assignee: *See*— Lang, Maurice.

Ihrig, Donald G., Evanston, Ill. Battery charging control responsive to gas pressure. 2,649,565, Aug. 18.

Ilford Limited, assignee: *See*— Kendall, John D., and Fry.

Illinois Tool Works, assignee: *See*— Poupitch, Ougljesa J.

Imperial Chemical Industries Limited, assignee: *See*— Shaw, Harry, Thompson, and Toler. Taylor, Arthur W. C., Jones, and Allan.

Industrial Rayon Corporation, assignee: *See*— Bruson, Herman A.

Ingraham, Robert P., San Antonio, Tex. Garment covering device with motor-driven bag carrier. 2,649,233, Aug. 18.

International Business Machines Corporation, assignee: *See*— Luhn, Hans P.

International Harvester Company, assignee: *See*— Hintz, Otto E. Shafer, Russell E., and J. E., and V. Cary.

International Standard Electric Corporation, assignee: *See*— Dunn, Roland H. Gayford, Michael L., and Cragg. Odell, Alexander D. Ransom, David H. Ransom, David H., Roberts, and Taplin.

Ipsen, Peter G., Schenectady, N. Y., assignor to General Electric Company. High-temperature expansion joint. 2,649,315, Aug. 18.

Jack & Heintz Precision Industries, Inc., assignee: *See*— Hartz, Raymond J.

Jack, Robert W., and H. E. Montgomery, assignors to Metal Arts Company, Rochester, N. Y. Die cutting machine. 2,649,033, Aug. 18.

Jacket, Howard S.: *See*— Sulfrian, Gerard F., and Jacket.

Jackson, Byron, Co., assignee: *See*— Lundeen, Chester A.

Jacobs, David I. H., Carshalton, D. J. Hadley, Epsom Downs, and R. Heap, Sutton, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of maleic acid. 2,649,477, Aug. 18.

Jameson, William, Miami, Fla. Container package structure. 2,649,197, Aug. 18.

Jefferson Lake Sulphur Company, assignee: *See*— Miller, Ernest B.

Jennings, Finley A.: *See*— Zelik, Joseph F., Jennings, and High.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Shaver and hair receiving compartment therefor. 2,648,898, Aug. 18.

Jobson, Frederic H., Atlanta, Ga. Container and cap therefor. 2,649,225, Aug. 18.

Johnsen, Sherman E. J., Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo. Apparatus for refractometry utilising photoelements. 2,649,014, Aug. 18.

Johnson, Charles B., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Plug valve body. 2,649,274, Aug. 18.

Johnson, Herbert L., and A. P. Stuart, Media, assignors to Sun Oil Company, Philadelphia, Pa. Molybdenum disulfide containing hydrogenation catalyst. 2,649,419, Aug. 18.

Johnson, Scott R., River Forest, and C. T. Walter, Markham, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Metal sheet stacker. 2,649,302, Aug. 18.

Jones, Allan E., Sacramento, Calif. Concentrator. 2,649,202, Aug. 18.

Jones, David O.: *See*— Taylor, Arthur W. C., Jones, and Allan.

Jones, David T. and G., Mold, North Wales. String extractor means for baling apparatus. 2,649,043, Aug. 18.

Jones, Glynn: *See*— Jones, David T. and G.

Jones, Ira M., assignee: *See*— Brooks, Lewis C.

Jones, Kenneth C., Breckaville, and L. L. Collins, assignors to Cleveland Rug Cleaning Machinery Co., Cleveland, Ohio. Rug handling mechanism. 2,649,279, Aug. 18.

Jones & Laughlin Steel Corporation, assignee: *See*— Mertes, Edward J. Todd, George W.

Jones, Marshall, New York, N. Y. Locking device. 2,648,971, Aug. 18.

Jones, Walter L., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener socket assembly. 2,648,885, Aug. 18.

Jordan, James F., Huntington Park, Calif. Profile method of making steel. 2,649,366, Aug. 18.

Just, Konrad, Salzburg, Austria, assignor to Himanit Aktiengesellschaft, Vaduz, Leichtenstein. Method and device for producing high-pressure tubes of hardening materials as cement. 2,649,133, Aug. 18.

Kaiser, Donald W., Old Greenwich, and J. J. Roemer, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of 2-thiocyano-4,6-diamino-S-triazine. 2,649,447, Aug. 18.

Kanell, Theodore, assignor, by mesne assignments, to A. Kompaniez, Los Angeles, Calif. Door latch. 2,649,324, Aug. 18.

Karlström, Karl A. S., Gavle, Sweden. Vibrator. 2,649,286, Aug. 18.

Kartarik, Henry: *See*— Bjorklund, Warren, and Kartarik.





Kellogg, M. W., Company, The, assignee: *See*— Palmer George H. Passino, Herbert J., and Meyers. Skelly, Joseph F.

Kelly, Charles L., Denver, Colo. Hay rake. 2,648,946, Aug. 18.

Kelly, Earl M.: *See*— Kivari, Arthur M., and Kelly.

Kelly, Earl M., Millbrae, and S. I. Bouaman, Mountain View, Calif., assignors to Process Engineers Incorporated. Apparatus for cleaning a sight glass and the like. 2,648,857, Aug. 18.

Kelly, Frederick G., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Gas expansion engine. 2,649,078, Aug. 18.

Kelsey, Alwyn L.: *See*— Tasker, Homer G., Hiebert, Kelsey, and Osborne.

Kemp, Wilfred H., Buffalo, N. Y. Steering column brake. 2,648,993, Aug. 18.

Kendall, John D., and D. J. Fry, assignors to Ilford Limited, Ilford, England. Optically bleached fibrous material. 2,649,385, Aug. 18.

Kennedy, Henry A., Philadelphia, Pa., assignor to Gould-National Batteries, Inc., St. Paul, Minn. Battery cap. 2,649,495, Aug. 18.

Killian, Donald B., Nutley, N. J., and A. D. Reidinger, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo pigment and coating compositions containing the same. 2,649,383, Aug. 18.

Kirby, Joseph J., North Arlington, and M. E. McGowan, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic glass bulb feed. 2,649,214, Aug. 18.

Kitchen, Herman W., Leasburg, Mo. Rotary scoop and grader. 2,648,922, Aug. 18.

Kivari, Arthur M., Los Angeles, and E. M. Kelly, Burlingame, assignors to Process Engineers Incorporated, San Francisco, Calif. Clarification. 2,649,412, Aug. 18.

Kluter, George L., Shaker Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Faller bar. 2,648,873, Aug. 18.

Knaus, Nicholaus, Cranford, and A. G. Millington, Clifton, assignors to The Singer Manufarturing Company, Elizabeth, N. J. Hem-folding attachment. 2,649,066, Aug. 18.

Knox Glass Bottle Company, assignee: *See*— Steck, Arch L.

Knudsen, Thomas C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Adjustable pitch sheave. 2,648,988, Aug. 18.

Knutson, Harold and H. G., Chicago, Ill. Power exhauster. 2,649,040, Aug. 18.

Knutson, Harold G.: *See*— Knutson, Harold and H. G.

Koehring Company, assignee: *See*— Anderson, Walter R. Lichtenberg, Erich H.

Koelliker, George P., assignee: *See*— Lasseter, Hubert P.

Koenig, Edward H., New Haven, and J. Chesnavich, assignors to The New Haven Copper Company, Seymour, Conn. Welding ends of copper coils. 2,649,528, Aug. 18.

Koh-I-Noor, Spojene Kovoprumyslove Zavody, narodni podnik, assignee: *See*— Polák, Bohumil.

Kompaniez, Alexandria, assignee: *See*— Kanell, Theodore.

Kopřiva, Miroslav: *See*— Václavík, Jaroslav, and Kopřiva.

Kraft Foods Company, assignee: *See*— Marshall, John M. Traisman, Edwin, and Price.

Kranenberg, Heinrich E., Remscheid-Lennep, Germany. Device for making hollow bodies of sheet metal under hydraulic pressure. 2,649,067, Aug. 18.

Krieg, Eldon L.: *See*— Smith, Milton B., Wallace, and Krieg.

Krogh, Milton E.: *See*— Williams, William K., and Krogh.

Krumm, Howard L., Columbus, Ohio. Adjustable parts holder and work-positioning apparatus. 2,648,896, Aug. 18.

Kunin, Robert: *See*— Winters, James C., and Kunin.

Lake, James, Jr., Brooklyn, N. Y. Tool for making joints in lead pipe. 2,649,127, Aug. 18.

Lamb, Anthony H., Hillside, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical thermometer for measuring high temperatures. 2,648,983, Aug. 18.

Lancaster, John T., Newton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Platform laying and platform cover turning machine. 2,648,852, Aug. 18.

Lang, Arthur J.: *See*— Hardman, Kenneth V., and Lang.

Lang, Maurice, Long Beach, assignor to H. Hyman, New York, N. Y. Dry cell. 2,649,491, Aug. 18.

Lappin, Robert I.: *See*— Zaiger, Louis, and Lappin.

Lasseter, Hubert P., Havana, assignor of one-half to G. P. Koelliker, Tallahassee, Fla. Ship stabilizer. 2,649,068, Aug. 18.

Latson, Richard C.: *See*— Burrell, Kenneth D., and Latson.

Launder, James M., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Window lifting mechanism. 2,649,300, Aug. 18.

Lay, John L., Ogden, assignor to A. H. Wirz, Inc., Chester, Pa. Spout cap. 2,649,226, Aug. 18.

Leach Company, assignee: *See*— Golinick, Cyril R.

Lee, Aaron, and E. Lieberman, Miami, Fla. Method of and means for crushing or cracking ice. 2,648,955, Aug. 18.

Le Febvre, Alfred L., Windsor, assignor to The Fuller Brush Company, Hartford, Conn. Broom with metal handle. 2,648,860, Aug. 18.

Legallais, Victor A.: *See*— Hartline, Haldan K., Rawson, and Legallais.

Lenta, Joseph G., Duluth, Minn. Rearview mirror. 2,649,028, Aug. 18.

Letts, Orlando A., Montreal, Quebec, Canada. Inserted tooth rock drill. 2,649,284, Aug. 18.

Leuze, William H., assignor to Triumph Manufacturing Company, Cincinnati, Ohio. Removable seal for food processing equipment. 2,649,317, Aug. 18.

Levy, Joshua P.: *See*— Bloom, Mortimer C., and Levy.

Lewing, Albert W.: *See*— Wright, John H., and Lewing.

Lewis, Richard W.: *See*— Linton, Alfred, and Lewis.

Lewis-Shepard Company, assignee: *See*— Hastings, Russell, Jr.

Lewis, Warren J., assignor to The Obin Brass Company, Mansfield, Ohio. Double trolley turnout. 2,649,509, Aug. 18.

Lewis, Willard D., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pseudohybrid microwave device. 2,649,576, Aug. 18.

Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Conveyer type concrete distributing machine. 2,649,185, Aug. 18.

Lichter, Charles: *See*— Strom, Gordon H., Lichter, and Rusinsky.

Lieberman, Eli: *See*— Lee, Aaron, and Lieberman.

Lincoln, John D., Marion, Va. Machine and method for producing continuous honeycomb structures. 2,640,131, Aug. 18.

Linton, Alfred, and R. W. Lewis, Dundee, Scotland, assignors to Burndept Limited, London, England. Voltaic cell. 2,649,492, Aug. 18.

Little, Juanita N.: *See*— Parsons, William F., and Little.

Little, Julian R., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Vulcanization. 2,649,429, Aug. 18.

Little, Julian R., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Vulcanization. 2,649,430, Aug. 18.

Little, Julian R., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Vulcanization of synthetic rubber with alkyl dimethylolphenol and formaldehyde. 2,649,431, Aug. 18.

Little, Julian R., Packanack Lake, N. J., assignor to United States Rubber Company, New York, N. Y. Vulcanization with alkyl dimethylolphenol and alkanolamine. 2,649,432, Aug. 18.

Litton, Charles V., Redwood City, Calif. Magnetron strapping arrangement. 2,649,556, Aug. 18.

Lockhart, Robert K., Moorestown, N. J., assignor to Radio Corporation of America. Television raster shape control system. 2,649,555, Aug. 18.

Long, Merton W., Jr.: *See*— Huscher, Myron E., Long, and Moore.

Longstreet, James R., Maple Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Faller bar with canted pins. 2,648,874, Aug. 18.

Loofboro, Newton E., assignor to The Parker Pen Company, Janesville, Wis. Magnetic clasp. 2,648,884, Aug. 18.

Lorentz, Roy E., Jr.: *See*— Chapman, Edward C., and Lorentz.

Lott, Gordon L., Vancouver, British Columbia, Canada. Radiograph marking apparatus. 2,649,547, Aug. 18.

Lovett, Gordon H., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Producing acrylonitrile. 2,649,472, Aug. 18.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Distributor and making the same. 2,649,513, Aug. 18.

Luke, Marvin B., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Electrical connector for resilient structures. 2,649,267, Aug. 18.

Lundeen, Chester A., Los Angeles, assignor to Byron Jackson Co., Vernon, Calif. Spinning and make-up tong. 2,649,283, Aug. 18.

MacDougall, Kirkland B., Benton, Pa. Automatic slack adjusting mechanism. 2,648,996, Aug. 18.

Mack, Grant, Berkley, Mich. Flush door latching mechanism. 2,649,322, Aug. 18.

Mack Manufacturing Corporation, assignee: *See*— Holman, Frank H., Jr.

MacKenzie, Harvey K., Pioneer Mines, British Columbia, Canada. Circumference measuring instrument for cylindrical articles. 2,648,913, Aug. 18.
Mackie, Harry A.: *See*—
Schamel, Clyde H., and Mackie.
MacLean, Alexander F., Robstown, Tex., assignor to Celanese Corporation of America. Preparation of barium - chromium - copper - silica - containing catalyst. 2,649,420, Aug. 18.
Mallina, Rudolph F., Hastings on Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Motor-driven hand tool for making wrapped wire connections. 2,649,122, Aug. 18.
Mallinckrodt, George E., St. Louis, Mo. Rotary expansion engine. 2,649,080, Aug. 18.
Mallory, Louis V., Rock Island, Ill. Hoisting and stretching apparatus. 2,648,985, Aug. 18.
Maltbie Laboratories, Inc., assignee: *See*—
Walter, Lewis A., Barry, and Clark.
Manco Mfg. Co., assignee: *See*—
Northcutt, Walter E.
Manzano, Heinrich: *See*—
Hönel, Herbert, and Manzano.
Marchese, Anthony, Milwaukee, Wis. Folding boom crane combination. 2,649,210, Aug. 18.
Marcus, Max J., New York, N. Y. Fused electric connector. 2,649,522, Aug. 18.
Marine Products Company, assignee: *See*—
Weyer, Ferdinand M.
Marino, Anthony: *See*—
Blockert, Ernest B., and Marino.
Marino, Inc., assignee: *See*—
Fowler, Chester C.
Marlowe, Elbert W., Pittsburgh, and P. M. Brannen, Duquesne, Pa., assignors to Westinghouse Air Brake Company. Space intrusion detection system. 2,649,538, Aug. 18.
Marsh Stencil Machine Company, assignee: *See*—
Hempel, Herbert W., and Calabrese.
Marshall, John M., Reading, Pa., assignor to Kraft Foods Company, Chicago, Ill. Forming seal in synthetic plastic packages. 2,649,392, Aug. 18.
Marshall, Oren B., and B. F. Adams, Kansas City, Mo. Collapsible furniture. 2,649,141, Aug. 18.
Marshall, Thos., trustee, assignee: *See*—
Grant, David A. and A. G.
Martienssen, Laurence. E., Parkview, Johannesburg, Transvaal, Union of South Africa. Charge forming device. 2,649,081, Aug. 18.
Martin, Henry, Schaffhausen, assignor to Variapat A. G., Basel, Switzerland. Trifluoromethylated diphenyl ether sulfonic acids. 2,649,476, Aug. 18.
Martin, John R., assignor to Oldham & Son Limited, Denton, near Manchester, England. Vent and filling device for storage batteries. 2,649,494, Aug. 18.
Marvel, Carl S., Urbana, Ill., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compositions containing a polymer of acrylonitrile and N,N-dimethylacetamide. 2,649,427, Aug. 18.
Maschinenfabrik Augsborg-Nurnberg A. G., assignee: *See*—
Vogel, Wilhelm, and Seifert.
Maschinenfabrik Stromag-G. m. b. H., assignee: *See*—
Schlotmann, Karl.
Maselli, Francesco P., Rome, assignor to "Aesculapius" S. r. l., Milan, Italy. Device for dosing urea in blood and in urine. 2,649,359, Aug. 18.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical system. 2,649,027, Aug. 18.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hall-effect wave translating device. 2,649,574, Aug. 18.
Master Machinery Corporation, assignee: *See*—
Smith, Milton B., Wallace, and Krieg.
Mastney, Edward J.: *See*—
Streuer, Wilhelm A., and Mastney.
Mathews Conveyer Company, assignee: *See*—
Anderson, Martin J.
Manrer, Frank W., Newton Highlands, and J. B. Hirschmann, Fairhaven, Mass., assignors, by mesne assignments, to J. B. Hirschmann. Filter manufacture. 2,649,395, Aug. 18.
Mazim Silencer Company, The, assignee: *See*—
Williamson, William R., and Tyskewicz.
Mayer, Charles M., assignor to The Tappan Stove Company, Mansfield, Ohio. Gas-fueled broiler burner for cooking ranges. 2,649,149, Aug. 18.
Mayer, Charles M., and S. T. Craig, assignors to The Tappan Stove Company, Mansfield, Ohio. Automatic ignition and control mechanism for gas burners. 2,649,152, Aug. 18.
Mazzella, Antonio, New Haven, Conn. Oyster dredge hoist gear. 2,648,918, Aug. 18.
McCarthy, Laurence O., Lakewood, Colo. Safety harness for automobiles. 2,649,145, Aug. 18.
McCarty, Harry D., Chicago, Ill. Photographic light comparator for determining diaphragm adjustment. 2,649,017, Aug. 18.
McCheseney, Cuyler S., Kenmore, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Apparatus for continuous frothing of rubber latex. 2,649,287, Aug. 18.
McDavitt, Marcellus B., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radiant energy signaling station. 2,649,541, Aug. 18.
McDonald, Robert E., Waynesboro, Va., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Apparatus and method for combining yarns. 2,648,890, Aug. 18.
McDonnough, Ferdinal R., Mansfield, Ohio. Baby hut. 2,649,102, Aug. 18.
McDougal, Talue O., Flint, assignor to General Motors Corporation, Detroit, Mich. Combustor igniter cup which becomes incandescent from combustion therein. 2,648,951, Aug. 18.
McFall, William W., River Forest, Ill. Shirt packaging device. 2,649,228, Aug. 18.
McGowan, Michael E.: *See*—
Kirby, Joseph J., and McGowan.
McLaughlin, Frank H., administrator: *See*—
McLaughlin, Frank M.
McLaughlin, Frank M., deceased, Hinckley, by F. H. McLaughlin, administrator, Moorhead, Minn. Automobile tool kit. 2,649,191, Aug. 18.
McLean, Robert E., assignor to J. C. Hockery, Kansas City, Mo., as trustee for H. J. and F. L. Talge. Can opener. 2,648,897, Aug. 18.
Medical Fabrics Co., Inc., assignee: *See*—
Sigg, Karl.
Meeker, David A., Troy, and K. C. Allen, Dayton, assignors to The Hobert Manufacturing Company, Troy, Ohio. Scale. 2,649,293, Aug. 18.
Mehm, Joseph A., Huntington Park, Calif., assignor to North American Aviation, Inc. Piston assembly for oscillatory hydraulic actuators. 2,649,077, Aug. 18.
Menzies, Stewart D.: *See*—
Nogler, Raymond S., and Menzies.
Mercier, Robert M., assignor to Societe pour le Renforcement des Domes de Reservoirs a Petrole, Paris, France. Hydrocarbon storage tank with strengthened roof. 2,649,059, Aug. 18.
Meredith, Barbara B.: *See*—
Meredith, Jesse L., Jr., and B. B.
Meredith, Frederick W., assignor to S. Smith & Sons (England) Limited, London, England. Stabilizing apparatus in aircraft. 2,649,563, Aug. 18.
Meredith, Frederick W., assignor to S. Smith & Sons (England) Limited, London, England. Automatic control system. 2,649,564, Aug. 18.
Meredith, Jesse L., Jr., and B. B., Alameda, Calif. Bassinet liner. 2,649,533, Aug. 18.
Merkley, Zane W., and W. Nichols, Mesa, Ariz. Irrigation ditch demosser and cleaner. 2,648,940, Aug. 18.
Merrell, Wm. S., Company, The, assignee: *See*—
Amatuta, Edward D.
Merrill, Francis G.: *See*—
Felch, Edwin P., Jr., and Merrill.
Merron, Arthur C., Twickenham, England. Manufacture of barrels and the like. 2,649,124, Aug. 18.
Mertes, Edward J., Chicago, Ill., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Loading apparatus. 2,649,217, Aug. 18.
Metal Arts Company, assignee: *See*—
Jack, Robert W., and Montgomery.
Metsner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Strip feeding apparatus. 2,649,180, Aug. 18.
Meyer, Walter R.: *See*—
Springer, Richard, and Meyer.
Meyers, James M.: *See*—
Passino, Herbert J., and Meyers.
Michaelis, John L., New Martinsville, W. Va., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Portable jack unit for electric circuits. 2,649,510, Aug. 18.
Michigan Tool Company, assignee: *See*—
Moncrieff, Alexander D. F.
Midgley, Douglas, East Malvern, Victoria, and N. H. Midgley, South Caulfield, Victoria, Australia. Automatically preparing outersoles. 2,648,855, Aug. 10.
Midgley Noel H: *See*—
Midgley, Douglas and N. H.
Militano, Vincent, Levittown, assignor to The Finkel Umbrella Frame Company, Inc., New York, N. Y. Folding umbrella. 2,649,103, Aug. 18.
Militano, Vincent, Levittown, assignor to The Finkel Umbrella Frame Company, Inc., New York, N. Y. Tiltable umbrella. 2,649,104, Aug. 18.
Miller, Alfred A., Cleveland, Ohio. Reciprocating power tool. 2,648,802, Aug. 18.
Miller, Benjamin J., Alliance, Ohio. Fork attachment for springing bicycle wheels. 2,649,312, Aug. 18.
Miller, Ernest B., Houston, Tex., assignor to Jefferson Lake Sulphur Company, New Orleans, La. Carbon black furnaces. 2,649,360, Aug. 18.
Miller, Ernest F., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gas turbine engine apparatus designed to burn wet pulverized fuel. 2,648,950, Aug. 18.
Miller, Floyd F.: *See*—
Gilbert, Harry, and Miller.



Miller, Herman, Furniture Company, assignee: *See*—
Eames, Charles.
Miller, Julius, Valley Stream, and A. Dentscher, Jamaica, N. Y. Door locking mechanism. 2,648,969, Aug. 18.
Miller, Raymond J., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Method and apparatus for fluid mixing and spraying. 2,649,333, Aug. 18.
Miller, Russel R., Silver Spring, Md. Collapsible ballot receptacle. 2,649,244, Aug. 18.
Millington, Agnes G.: *See*—
Knaus, Nicholaus, and Millington.
Mills, John, Drexel Hill, assignor to Hires, Castner & Harris, Inc., Philadelphia, Pa. Apparatus for determining pressure in containers. 2,648,977, Aug. 18.
Miner, W. H., Inc., assignee: *See*—
Olander, Roland J.
Withall, William E.
Mining Engineering Company Limited, The, assignee: *See*—
Duncan, Angus W.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Condon, Raymond J.
Minnesota Wood Specialties, Inc., assignee: *See*—
Bjorklund, Warren, and Kartsrik.
Moncrieff, Alexander D. F., assignor to Michigan Tool Company, Detroit, Mich. Device for gravity feed of gears to gear shaving tools. 2,649,032, Aug. 18.
Mono Products Inc., assignee: *See*—
Peazillo, Rinaldo F. and A. H., and Tatem.
Monsanto Chemical Company, assignee: *See*—
Beaver, David J.
Bennett, George E., and Ott.
Herman, Marion W.
Johnsen, Sherman E. J.
Lovett, Gordon H.
Schnelle, Philip D.
Stehman, Carlyle J.
Montgomery, Harry E.: *See*—
Jack, Robert W., and Montgomery.
Moore, Arthur H., Fairfield, assignor to the Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Hand flashlight having improved means for mounting the light bulb. 2,649,534, Aug. 18.
Moore, Donald W., Lancaster, and A. H. Searl, Lancaster Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Mastic tile. 2,649,428, Aug. 18.
Moore, John C.: *See*—
Huscher, Myron E., Long, and Moore.
Moore, Walter E., Bel Nor, assignor to Swing-A-Way Manufacturing Company, St. Louis, Mo. Cabinet model can opener. 2,649,347, Aug. 18.
Moose, Charles E., assignee: *See*—
Fuehring, Karl T.
Morel, Roger, assignor to Societe Anonyme des Machines Electrostatiques, Grenoble, and Centre National de la Recherche Scientifique, Paris, France. Polarity reversal device for electrostatic machines. 2,649,566, Aug. 18.
Morin, Louis H., Bronx, N. Y. Machine for racking channellike devices. 2,649,200, Aug. 18.
Mueller, C. F., Co., assignee: *See*—
Autenrieth, Ferdinand.
Mulvany, Harry A. and R. B., Berkeley, Calif. Thermostat. 2,649,523, Aug. 18.
Mulvany, Richard B.: *See*—
Mulvany, Harry A., and R. B.
Munck, Leslie S., assignor to Creed and Company Limited, Croydon, England. Control of driving motors of teleprinters. 2,649,497, Aug. 18.
Munson, Whitney K., assignee: *See*—
Condon, John C.
Murphy, William P., Jr., Brookline, assignor to Fenwal Laboratories, Inc., Ashland, Mass. Spring scale. 2,649,299, Aug. 18.
Murray, Herbert C., Hickory Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. Steroids. 2,649,400, Aug. 18.
Murray, Herbert C., Hickery Corners, and D. H. Peterson, assignors to The Upjohn Company, Kalamazoo, Mich. Steroids. 2,649,402, Aug. 18.
Murray, Robert: *See*—
Herald, William J., and Murray.
Muzzey, Clifford L.: *See*—
Carson, Howard, and Muzzey.
Myers, Gordon S.: *See*—
Glen, William L., Myers, and Papineau-Couture.
Nagel, Frank K., Hayville, N. Y. Mechanical toy whale. 2,648,935, Aug. 18.
Nassour, Edward, Los Angeles, Calif. Camera control system for the sequential operation of cameras. 2,649,015, Aug. 18.
National Cash Register Company, The, assignee: *See*—
Werner, Frank R.
Neighbors, Roscoe F., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of organic sulfates. 2,649,469, Aug. 18.
Nepera Chemical Co., Inc., assignee: *See*—
Goldberg, Aaron S.
Neugebauer, Wilhelm, Wiesbaden-Biebrich, J. Barthenheier, Eddersheim (Main), and A. Rebenstock, Wiesbaden-Biebrich, Germany, assignors to S. D. Warren Company, Westbrook, Maine. Paper printing foils for lithographic purposes and preparing them. 2,649,373, Aug. 18.
New Britain Machine Company, The, assignee: *See*—
Stephan, Hallis N.
New Haven Copper Company, The, assignee: *See*—
Koenig, Edward H., and Cheenavich.
New, Leo, Muncie, Ind. Headrest appliance. 2,649,142, Aug. 18.
Newman, Frank G.: *See*—
Wulff, Carl W., and Newman.
Newton, Russell B., and O. L. Williamson, assignors to Dan River Mills, Inc., Danville, Va., Thread treating machine. 2,649,071, Aug. 18.
Nichols, William: *See*—
Merkley, Zane W., and Nichols.
Nicholson, Marion C., Detroit, Mich. Dressmaker's measuring device. 2,648,907, Aug. 18.
Nielsen, Adolph, Oakland, Calif. Hand truck. 2,649,219, Aug. 18.
Niklason, Clarence R., Arlington County, Va. Confection molding. 2,649,057, Aug. 18.
Niles-Bement-Pond Company, assignee: *See*—
Stafford, Bernard A.
Nogler, Raymond S., Pasadena, and S. D. Menzies, Manhattan Beach, assignors to Catalina, Inc., Los Angeles, Calif. Puckered fabric. 2,649,062, Aug. 18.
Nordell, Carl H., Palm Springs, Calif. Winding machine. 2,649,251, Aug. 18.
North American Aviation, Inc., assignee: *See*—
Mehm, Joseph A.
North American Paper Process Company, Inc., assignee: *See*—
Snowman, Paul A., Jr.
Northcutt, Walter E., Kankakee, assignor to Manco Mfg. Co., Bradley, Ill. Tool for cutting metal strap. 2,648,901, Aug. 18.
Northrop Aircraft, Inc, assignee: *See*—
Schoellerman, Alvin L.
No-Sag Spring Company, assignee: *See*—
Hopkes, Henry.
November, Milton H., East Orange, N. J., assignor to Spiral Binding Company, Inc., New York, N. Y. Machine for binding books. 2,649,120, Aug. 18.
Noyes, Howard, Dayton, Ohio. Shutoff or selector valve having a resilient sheet metal rotor. 2,649,275, Aug. 18.
Nussbaum, Walter, New York, N. Y., now by change of name Walter Brent. Monograms. 2,648,923, Aug. 18.
Oak Mfg. Co., assignee: *See*—
Streuer, Wilhelm A., and Mastney.
Odell, Alexander D., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electrical circuits employing gaseous discharge tubes. 2,649,502, Aug. 18.
Ohio Bozboard Company, The, assignee: *See*—
Ellsworth, Ransom C.
Ohio Brass Company, The, assignee: *See*—
Lewis, Warren J.
Ohio Corrugating Company, The, assignee: *See*—
Vaughn, Harold G.
Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Clutch actuating means for hand brakes of railway cars. 2,648,964, Aug. 18.
Oldham & Son Limited, assignee: *See*—
Martin, John R.
Olin Industries, Inc., assignee: *See*—
Calhoun, James C., Davidson, and Hansen.
Ramsey, William C.
Temple, Lemuel M.
Olson, Harry F., Princeton, and J. Preston, Metedeconk, N. J., assignors to Radio Corporation of America. Cabinet for sound translating apparatus. 2,649,164, Aug. 18.
Osborne, Samuel C.: *See*—
Fletcher, James L., and Osborne.
Osborne, William E.: *See*—
Tasker, Homer G., Hiebert, Kelsey, and Osborne.
Osgood, John H., Claremont, N. H. Contour inspection device. 2,648,912, Aug. 18.
Otsuka, Akira, Meguro-ku, Tokyo, Japan. Manufacture of shoes. 2,648,854, Aug. 18.
Ott, John B.: *See*—
Bennett, George E., and Ott.
Overend, William G.: *See*—
Stacey, Maurice, and Overend.
Owen, Harold R., Playa Del Rey, and R. Brown, Fall Brook, assignors to Electrical Products Corporation, Los Angeles, Calif. Sign structure. 2,648,925, Aug. 18.
Owens-Illinois Glass Company, assignee: *See*—
Fedurchak, William J.
Packard Motor Car Company, assignee: *See*—
Vincent, Jesse G.
Paddock Pool Equipment Co., assignee: *See*—
Ulanovsky, Jack M.
Palmer, George H., Fanwood, assignor to The M. W. Kellogg Company, Jersey City, N. J. Contacting gases and solids. 2,649,358, Aug. 18.
Papineau-Couture, Gilles: *See*—
Glen, William L., Myers, and Papineau-Couture.
Paramount Pictures Corporation, assignee: *See*—
Dressler, Robert, and Chesnes.

Parker, Charles A., assignor to Rainey Accounting Machine Company, Inc., Knoxville, Tenn. Calculating mechanism. 2,649,250, Aug. 18.

Parker, Clarence E., assignor to The Coe Manufacturing Company, Painesville, Ohio. Apparatus for handling veneer. 2,649,182, Aug. 18.

Parker Pen Company, The, assignee: *See*— Loofboro, Newton E.

Parsons, Carr H., Orangeburg, and W. J. Rumpf, Pearl River, assignors to American Cyanamid Company, New York, N. Y. Rubber closure for pharmaceutical vials. 2,649,090, Aug. 18.

Parsons, William F., and J. N. Little, assignors to Eastman Kodak Company, Rochester, N. Y. Forming non-reflecting coating on glass. 2,649,387, Aug. 18.

Passino, Herbert J., Englewood, N. J., and J. M. Meyers, Rochester, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. Refining wool fat. 2,649,466, Aug. 18.

Patterson, Herman W., Overland Park, Kans. Tying and fastening device. 2,648,879, Aug. 18.

Paull, Jack C., Seattle, Wash. Combination knife wiper and range cleaner. 2,648,858, Aug. 18.

Payne, Arthur W., assignor to Bundy Tubing Company, Detroit, Mich. Machine for feeding fittings. 2,649,178, Aug. 18.

Payne Beverly Manufacturing Co., assignee: *See*— Payne El Roy L.

Payne, El Roy L., assignor to Payne Beverly Manufacturing Co., Beverly Hills, Calif. Variable capacity blower. 2,649,242, Aug. 18.

Payne, Verna L.: *See*— Phillips, Joe, and Payne.

Pearl, David R.: *See*— Best, Stanley G., and Pearl

Pearson, Emil S.: *See*— Stout, William H., and Pearson.

Pearson, Gerald L., Millington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor magnetoresistive device. 2,649,569, Aug. 18.

Peltz, Gordon M., Flushing, and H. Bovio, New York, N. Y., assignors to Bridgeport Brass Company, Bridgeport, Conn. Device for intermittently discharging fluid under pressure. 2,649,331, Aug. 18.

Perkins, Susie M., McPherson, Kans. No-slide scarf pin-comb set. 2,649,098, Aug. 18.

Perl, Richard L., Galion, assignor to The Tappan Stove Company, Mansfield, Ohio. Thermally responsive oven burner control unit. 2,649,524, Aug. 18.

Persson, Eric S., Malmoe, Sweden. Metal door. 2,649,171, Aug. 18.

Pest Control Limited, assignee: *See*— Hartley, Gilbert S., and Pound.

Petersen, John, Newark, N. J, Hair cutter. 2,648,902, Aug. 18.

Peterson, Durey H.: *See*— Murray, Herbert C., and Peterson.

Peterson, Edward C., Reading, assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. Manipulating on mill tables. 2,649,003, Aug. 18.

Peterson, Richard H.: *See*— Heytow, Solomon, and Peterson.

Pettigrew, David D.: *See*— Garyalt, Henry, and Pettigrew.

Pezzillo, Anthony H.: *See*— Pezzillo, Rinaldo F. and A. H., and Tatem.

Pezzillo, Rinaldo F., Audubon, N. J., A. H. Pezzillo, and G. C. Tatem, assignors to Mono Products Inc., Philadelphia, Pa.: Fluid-shielded dynamoelectric device for immersed pumps and the like. 2,649,048, Aug. 18.

Pezzillo, Rinaldo F., Audubon, N. J., A. H. Pezzillo, and G. C. Tatem, assignors to Mono Products Inc., Philadelphia, Pa. Fluid-shielded dynamoelectric device for immersed pumps and the like. 2,649,049, Aug. 18.

Pfizer, Chas., & Co., Inc., assignee: *See*— Regna, Peter P., Carboni, and Timreck.

Philadelphia Quartz Company, assignee: *See*— Wills, John H., and Hasel.

Phillips, Joe, Fairfax, and V. L. Payne, Plant City, Shawmut, assignors to West Point Manufacturing Company, Shawmut, Ala. Method and machine for producing unwoven fabrics. 2,648,876, Aug. 18.

Phillips, Marion W., Kansas City, Kans., assignor to Gustin-Bacon Manufacturing Company. Immersion heater for bushing for fiber glass manufacture. 2,649,487, Aug. 18.

Polák, Bohumil, assignor to Koh-I-Noor, Spojene Kovoprumyslove Zavody, narodni podnik, Pragne, Czechoslovakia. Push key operated hasp lock. 2,648,966, Aug. 18.

Pollman, Ralph C., Seaford, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Method and apparatus for adding yarn ends. 2,648,891, Aug. 18.

Porter, Frank, and J. C. Eck, Morris Township, Morris County, N. J., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Absorption of carbon dioxide from gases containing the same. 2,649,166, Aug. 18.

Pound, Denis W.: *See*— Hartley, Gilbert S., and Pound.

Pounitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Washer strip and method and apparatus for producing same. 2,649,125, Aug. 18.

Powder Power Tool Corporation, assignee: *See*— Farnsworth, Richard, Erickson, and Webber.

Powell, Charles K., assignor to Chestnut Farms-Chevy Chase Dairy Company, Washington, D. C. Egg feeding mechanism. 2,649,186, Aug. 18.

Powers, George S., New Roads, La. Cane gathering device. 2,648,944, Aug. 18.

Powers Regulator Company, The, assignee: *See*— Barnett, Harry, and Sabalius.

Prase, Werner, Stuttgart, Germany. Production of insulating panels, door panels, furniture board, or the like. 2,649,135, Aug. 18.

Prendergast, William J., Jr., assignee: *See*— Dickson, John.

Prestinari, Eugen F., Short Hills, and J. F. Sand, Newark, assignors to Gemex Company, Union, N. J. End-attaching device. 2,648,886, Aug. 18.

Preston, John: *See*— Olson, Harry F., and Preston.

Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Switch and signal control system. 2,649,536, Aug. 18.

Price, Claude R.: *See*— Traisman, Edwin, and Price.

Price, Emil, Los Angeles, Calif. Gas tank lock. 2,648,970, Aug. 18.

Process Engineers Incorporated, assignee: *See*— Kelly, Earl M., and Bousman. Kivari, Arthur M., and Kelly.

Pye Limited, assignee: *See*— Cope, John E.

Putney, David H., assignor to Stratford Engineering Corporation, Kansas City, Mo. Preparing olefinic hydrocarbons and recycle acid catalyst for absorption prior to alkylation. 2,649,486, Aug. 18.

Quinn, David H., Brookline, assignor to Quinn Products, Inc., Boston, Mass. Speed filter. 2,649,205, Aug. 18.

Quinn Products, Inc., assignee: *See*— Quinn, David H.

Radcliffe, Frederick E., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Test equipment and method for measuring reflection coefficient. 2,649,570, Aug. 18.

Radio Corporation of America, assignee: *See*— Barco, Allen A., Bliss, and Carpenter. Burger, Gustav F., and Reisner. Lockhart, Robert K. Olson, Harry F., and Preston.

Rainey Accounting Machine Company, Inc., assignee: *See*— Parker, Charles A.

Ramsey, William C., Glendale, Mo., assignor to Olin Industries, Inc., East Alton, Ill. Continuous cellulose nitration. 2,649,441, Aug. 18.

Randal, Dudley K., Kennewick, Wash. Resilient clamp for installing tire chains. 2,649,005, Aug. 18.

Ransom, David H., Pines Lake, South Paterson, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Electric potential comparing circuit. 2,649,557, Aug. 18.

Ransom, David H., W. L. Roberts, and R. H. Taplin, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Pulse time position switching system. 2,649,503, Aug. 18.

Rapoport, Henry, assignor to The Regents of the University of California, Berkeley, Calif. Preparing dihydromorphinone, dihydrocodeinone, and dihydropseudocodeinone. 2,649,454, Aug. 18.

Rappi, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield clearing system. 2,649,332, Aug. 18.

Rasch, Arthur A., R. W. Henn, and J. I. Crabtree, assignors to Eastman Kodak Company, Rochester, N. Y. Single powder developers containing stabilized alkali hydroxides. 2,649,376, Aug. 18.

Raskin, Betty L.: *See*— Witt, Ralph K., Carson, and Raskin.

Rausenberger, Laurence E., and D. L. Getz, assignors to The Steel Products Engineering Company, Springfield, Ohio. Chain hoist mechanism. 2,649,280, Aug. 18.

Rawson, Arthur J.: *See*— Hartline, Haldan K., Rawson, and Legallais.

Raynor, Richard N., Danville, and D. Stewart, Sacramento, Calif., assignors to The Dow Chemical Company, Midland, Mich. Maturing of crops. 2,649,364, Aug. 18.

Raynor, Richard N., Danville, and D. Stewart, Garden Grove, Calif., assignors to The Dow Chemical Company, Midland, Mich. Maturing of crops. 2,649,365, Aug. 18.

Rayonier Incorporated, assignee: *See*— Bock, Louis H., and Carlson.

Rebenstock, August: *See*— Neugebauer, Wilhelm, Barthenheier, and Rebenstock.

Rechler, Morton D., assignor to Rexart Metal Industries, Inc., New York, N. Y. Folding chair. 2,649,138, Aug. 18.

Reck, Frank, Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tool for effecting solderless connections between a wire and a terminal. 2,649,121, Aug. 18.

Reed, Frank A., Butler, Pa. Inverted well packer. 2,649,158, Aug. 18.

Regna, Peter P., Woodcliff, N. J., and R. A. Carboni, Jackson Heights, and A. E. Timreck, New York, N. Y., assignors to Chas. Pfizer & Co., Inc. Recovery of oxytetracycline. 2,649,480, Aug. 18.





Reichard, Jerome H., Lockport, N. Y. Method and apparatus for applying wall finishes. 2,648,887, Aug. 18.

Reid, Charles S., Los Angeles, Calif. Apparatus for delinking and defibering wastepaper. 2,649,371, Aug. 18.

Reidinger, Albert D.: *See*— Killian, Donald B., and Reidinger.

Reilly, James H.: *See*— Wheeler, Gordon D., and Reilly.

Reilly, John J., Jr.: *See*— Badik, Cornelius E., and Reilly.

Reisner, John H.: *See*— Burger, Gustav F., and Reisner.

Rexart Metal Industries, Inc., assignee: *See*— Rechler, Morton D.

Reynolds Metals Company, assignee: *See*— Beneke, Charles J.

Reynolds, Ralph W.: *See*— Hoke, Frank J., and Reynolds.

Reynolds, Thomas G., Media, assignor to United Engineers & Constructors Inc., Philadelphia, Pa. Coke-oven by-product recovery. 2,649,404, Aug. 18.

Richards, Archer W.: *See*— Woina, Benjamin A., and Richards.

Richardson, Vernon C. H., Bellaire, assignor of one-fourth to C. K. Farr, Beaumont, one-fourth to F. W. Etchison, and one-fourth to J. H. Stevenson, Port Arthur, Tex. Quick detachable swivel pipe union. 2,649,314, Aug. 18.

Richardson, Winfield S., assignor to Eastman Kodak Company, Rochester, N. Y. Antistatic photographic film. 2,649,374, Aug. 18.

Richter, Frederick P., and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Lubricating oil containing a monoester of a thiodiacetic acid. 2,649,416, Aug. 18.

Rigney, Joseph W., Mesilla Park, N. Mex. Slide container. 2,649,093, Aug. 18.

Robb, Frank B., assignee: *See*— Bur, Armand.

Robb, John F., assignee: *See*— Bur, Armand.

Robb, John W., assignee: *See*— Bur, Armand.

Roberts, John F., Portland, assignor of one-half to F. K. Schneider, Newport, Oreg. Combination ironing board and bench. 2,649,137, Aug. 18.

Roberts, William L.: *See*— Ransom, David H., Roberts, and Taplin.

Robertson, Sloan D., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microwave carrier telephone system. 2,649,539, Aug. 18.

Rockwell Manufacturing Company, assignee: *See*— Johnson, Charles B.

Roemer, John J.: *See*— Kaiser, Donald W., and Roemer.

Rogers Imports Inc., assignee: *See*— Babbitt, John F.

Rohm & Haas Company, assignee: *See*— Strong, James S., Craig, and Elkind. Winters, James C., and Kunin.

Ronson Art Metal Works, Inc., assignee: *See*— Burchett, Ray L.

Rossi, Harry J. New York, N. Y., and A. J. Weiss, West Englewood, N. J., assignors to Robert Gair Company, Inc. New York, N. Y. Single blank carton with display card cover. 2,649,195, Aug. 18.

Rothchild, Morris, Brooklyn, N. Y. Refrigerator track and drawer construction. 2,649,351, Aug. 18.

Rotman, Menachem, Philadelphia, Pa. Till lock with alarm. 2,649,070, Aug. 18.

Rua, Georges: *See*— Dessert, Léo, Abel, and Rua.

Rudolph Grave Aktiebolag, assignee: *See*— Silverstolpe, Karl O. L.

Rueckert, Dean E., Mokena, assignor to Swift & Company, Chicago, Ill. Truck loading. 2,649,054, Aug. 18.

Rumpf, Walter J.: *See*— Parsons, Carr H., and Rumpf.

Rusinsky, Paul: *See*— Strom, Gordon H., Lichter, and Rusinsky.

Russell, Herbert H., assignor to The Greist Manufacturing Company, New Haven, Conn. Buttonhole attachment for sewing machines. 2,649,063, Aug. 18.

Sabalius, Erwin: *See*— Barnett, Harry, and Sabalius.

St. Jean, Robert R.: *See*— Vastano, Frederick A., Erickson, and St. Jean.

Salathiel, Richard A., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Drilling mud. 2,649,414, Aug. 18.

Saiokar, Andrew W., Miami, Fla. Animal trap. 2,648,930, Aug. 18.

Sam, Sam W., Chicago, Ill. Fishing device. 2,648,928, Aug. 18.

Samiran, David, Fort Wayne, Ind. Nozzle for fuel servicing system for aircraft. 2,649,109, Aug. 18.

Sand, John F.: *See*— Prestinari, Eugen F., and Sand.

Sandos A. G., assignee: *See*— Von Allmen, Samuel, and Eggenberger.

Sandos Limited, assignee: *See*— Hemmi, Hans M., and Trefzer.

Sanford Products, Inc., assignee: *See*— Sanford, Roy S.

Sanford, Roy S., Woodbury, and P. F. Simpson, Washington, Conn. Barrel chair. 2,649,146, Aug. 18.

Sanford, Roy S., assignor to Sanford Products, Inc., Woodbury, Conn. Metal chair. 2,649,147, Aug. 18.

Sato, Takeo, Honolulu, Hawaii. Angle post splicing collar. 2,649,320, Aug. 18.

Sawyer, Frederick D., Wayne, assignor to Dearborn Motors Corporation, Highland Park, Mich. Adjustable link. 2,648,997, Aug. 18.

Schaetzel, Donald E., Minneapolis, Minn., and R. J. Childress, Norwalk, Calif., assignors to General Mills, Inc. Automatically resetting diverter for pneumatic conveyers. 2,649,339, Aug. 18.

Schamel, Clyde H., Royal Oak, and H. A. Mackie, Bloomfield Hills, assignors to General Motors Corporation, Detroit, Mich. Automatic rear quarter weather seal for automobile bodies with convertible tops. 2,649,330, Aug. 18.

Schlank, Eugene A., Cincinnati, Ohio. Machine for straightening metal drums. 2,649,129, Aug. 18.

Schlotmann, Karl, Massen, near Unna, assignor to Maschinenfabrik Stromag-G. m. b. H., Unna, Germany. Flexible coupling. 2,648,958, Aug. 18.

Schmidt, Carl O., Jr., Cincinnati, and F. A. Zaenkert, Greenhills, assignors to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Cradle control for carcass dehairing device. 2,648,871, Aug. 18.

Schmidt, George F., assignor of fifty per cent to G. H. Schmidt, Decatur, Ill. Boxcar grain unloader. 2,649,189, Aug. 18.

Schmidt, George H., assignee: *See*— Schmidt, George F.

Schneider, F. K., assignee: *See*— Roberts, John F.

Schneider, Hans, assignor of one-half to J. Schneider, La Chaux-de-Fonds, Switzerland. Atomizer. 2,649,334, Aug. 18.

Schneider, Jules, assignee: *See*— Schneider, Hans.

Schnelle, Philip D., Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo. Electrical temperature compensation in recording refractometers. 2,649,012, Aug. 18.

Schnelle, Philip D., Texas City, Tex., assignor to Monsanto Chemical Company, St. Louis, Mo. Apparatus for refractometry. 2,649,013, Aug. 18.

Schnetzer, George W., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Control mechanism for photographic copying apparatus. 2,649,018, Aug. 18.

Schoellerman, Alvin L., Los Angeles, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Means and method of cold bending sheet metal. 2,649,128, Aug. 18.

Schoults, Walter E., Fort Wayne, Ind. Playing card shuffler. 2,649,305, Aug. 18.

Schuyler, Fred B., near Seattle, assignor to Durable Mat Company, Seattle, Wash. Truck dock bumper. 2,649,295, Aug. 18.

Schwanda, Theodore F., assignor to Blue Ridge Textile Co., Inc., Bangor, Pa. Stop motion mechanism for warp knitting machines. 2,648,982, Aug. 18.

Scott, Frederick McK.: *See*— Allyn, William N., Cook, Browne, Scott, and Carroll.

Searl, Alonzo H.: *See*— Moore, Donald W., and Searl.

Seat, Glenn W.: *See*— Webb, Mildred G., and Seat.

Sebel, David, London, England. Push chair. 2,649,310, Aug. 18.

Seifert, Hans: *See*— Vogel, Wilhelm, and Seifert.

Seismograph Service Corporation, assignee: *See*— Cornett, Jesse R.

Selby, William R., Springfield, Ill. Drive spike. 2,649,009, Aug. 18.

Shadburn, Paul L., assignee: *See*— Hayes, Dale D.

Shafer, Russell E., J. E. and V. Cary, Opelousas, La., assignors to International Harvester Company. Sugar cane harvester and loader. 2,648,943, Aug. 18.

Shaw, Harry, A. Thompson, and T. I. J. Toler, Runcorn, England, assignors to Imperial Chemical Industries Limited. Mercury cathode electrolytic cell. 2,649,411, Aug. 18.

Shelburne, Clyde D., Shelburn, Ind. Fishing reel. 2,649,257, Aug. 18.

Shelburne, Clyde D., Shelburn, Ind. Fishing reel. 2,649,258, Aug. 18.

Shell Development Company, assignee: *See*— Anderson, Alvin P. Ballard, Seaver A. Hannibal, Lester S.

Shield, Lansing P., New York, N. Y., assignor to The Grand Union Company, East Paterson, N. J. Display and delivery device. 2,649,207, Aug. 18.

Shipes, John A., Charlotte, N. C. Automatic wear take-up mechanism for internal expanding hydraulic brakes. 2,649,168, Aug. 18.

Shockey, Newton E., Detroit, and H. W. Wilkins, Centerline, assignors to Van Dresser Specialty Corporation, Van Dyke, Mich. Mechanism for making wire reinforced fabric spring liners or the like. 2,648,842, Aug. 18.

Shumaker, John F., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Automatic slack adjuster. 2,649,170, Aug. 18.

Siegel, Jack: *See*—
Backus, Edward D., and Siegel.

Sigg, Karl, Benningen, Switzerland, assignor to Medical Fabrics Co., Inc., Paterson, N. J. Means for the treatment of phlebitis. 2,649,088, Aug. 18.

Signore, James W., Ellicottville, N. Y. Window sash operating mechanism. 2,649,301, Aug. 18.

Silverstein, Martin S., Camden, N. J. Primer. 2,649,047, Aug. 18.

Silverstolpe, Karl O. L., assignor to Rudolph Grave Aktiebolag, Stockholm, Sweden. Concentrating vessel and stopper therefor. 2,649,245, Aug. 18.

Simon, Simon A., Longmeadow, and A. H. Dreilich, Springfield, assignors, by mesne assignments, to Chicopee Manufacturing Corporation, Chicopee Falls, Mass. Astatic material. 2,649,143, Aug. 18.

Simpson, Paul F.: *See*—
Sanford, Roy S., and Simpson.

Sinclair Research Laboratories, Inc., assignee: *See*—
Stabler, Albert.

Singer Manufacturing Company, The, assignee: *See*—
Knaus, Nicholaus, and Millington.

Singleton, Arthur E., Fort Wayne, Ind., assignor to The Toldey Company, Gertrude A. Muller, Inc. Child's auxiliary seat attachment. 2,649,139, Aug. 18.

Skelly, Joseph F., New York, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Preparation of olefin oxides. 2,649,463, Aug. 18.

Skillman, Paul, New Kensington, assignor, by mesne assignments, to Blaw-Knox Company, Pittsburgh, Pa. Pressure lubricating system. 2,649,318, Aug. 18.

Skrebba, Johannes, Lahr (Schwarzwald), Germany, assignor to C. L. Tager, New York, N. Y. Supply stand for adhesive strip material. 2,649,256, Aug. 18.

Slater, John M., Garden City, N. Y., and W. Wrigley, Wollaston, Mass., assignors to The Sperry Corporation. Flight control system. 2,649,264, Aug. 18.

Sluijter, Henry, Rotterdam, Netherlands. Apparatus for closing off the urethra of women. 2,649,086, Aug. 18.

Smallen, Philip, Brooklyn, assignor of one-half to A. Friedman, New York, N. Y. Toilet tissue cover. 2,649,255, Aug. 18.

Smith, Albert A., Jr., Metuchen, and J. L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Cadmium-free low fusing point alloy. 2,649,367, Aug. 18.

Smith, Albert A., Jr., Metuchen, and J. L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Indium-bismuth-tin alloy. 2,649,368, Aug. 18.

Smith, Albert A., Jr., Metuchen, and J. L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Indium-bismuth-lead alloy. 2,649,369, Aug. 18.

Smith, Albert A., Jr., Metuchen, and J. L. Everhart, Linden, N. J., assignors to American Smelting and Refining Company, New York, N. Y Indium-bismuth-lead alloy. 2,649,370, Aug. 18.

Smith, Glen A., assignor to General Motors Corporation, Detroit, Mich. Vehicle door lock. 2,649,321, Aug. 18.

Smith, Harry B., Westfield, and G. A. Dolan, East Orange, N. J. Means for and process of heat-treating material to be welded together. 2,649,529, Aug. 18.

Smith, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company. Locking device for track switches or the like. 2,649,537, Aug. 18.

Smith, L. C., & Corona Typwriters, Inc., assignee: *See*—
Barkdoll, Joseph P.

Smith, Milton B., Huntington, E. C. Wallace, Andrews, and E. L. Krieg, South Whitley, assignors to Master Machinery Corporation, Huntington, Ind. Nail gun. 2,648,841, Aug. 18.

Smith, Reuben E., Margaretaville, N. Y. Teat protector for dairy cattle. 2,649,073, Aug. 18.

Smith, Robert J., Elmhurst, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Bridge for resistance measurement. 2,649,571, Aug. 18.

Smith, S., & Sons (England) Limited, assignee: *See*—
Meredith, Frederick W.

Snell, Ronald C.: *See*—
Bellringer, Frederick J., Bewley, Snell, and Turck.

Snowman, Paul A., Jr., Glen Ridge, N. J., assignor to North American Paper Process Company, Inc., New York, N. Y. Coated paper and making same. 2,649,386, Aug. 18.

Societe Anonyme des Machines Electrostatiques, assignee: *See*—
Morel, Roger.

Societe Anonyme dite: Etablissements Ducellier, assignee: *See*—
Delorme, Lucien.

Societe pour le Renforcement des Domes de Reservoirs a Petrole, assignee: *See*—
Mercier, Robert M.

Societe Solex, assignee: *See*—
Griffon, Gaston.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Richter, Frederick P., and Fuller.

Somers, Allen E.: *See*—
Harrison, James M., and Somers.

Sommers, Paul H., Montgomery, Ala. Means to facilitate the laying of masonry units. 2,648,974, Aug. 18.

Sousselioff, Dimitri G., Warwick, and A. C. White, Greenwood, assignors to Universal Winding Company, Cranston, R. I. Spindle mounting. 2,648,948, Aug. 18.

Sousselioff, Dimitri G., Warwick, A. C. White, Greenwood, and R. G. Hilbert, Smithfield, assignors to Universal Winding Company, Cranston, R. I. Bobbin hanger. 2,649,253, Aug. 18.

Spain, Roy C., Salem, Va., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lever tumbler cylinder lock. 2,648,973, Aug. 18.

Speeter, Merrill E., assignor to Bristol Laboratories, Syracuse, N. Y. Chloracetic acid ester of diphenyl ethanols. 2,649,445, Aug. 18.

Spencer, Frank R., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Short oil modified alkyd resin surface coating materials comprising a polymer of aliphatic esters of alpha, beta unsaturated carboxylic acids. 2,649,423, Aug. 18.

Sperry Corporation, The, assignee: *See*—
Slater, John M., and Wrigley.

Sperry Products, Inc., assignee: *See*—
Hardie, Fred H., Goodman, and Van Valkenburg.

Spiller, William R., assignor to Harris-Seybold Company, Dayton, Ohio. Sheet handling mechanism for cutting machines. 2,649,155, Aug. 18.

Spindler, Joseph C., Chicago, Ill., assignor to Zenith Radio Corporation. Loop antenna. 2,649,545, Aug. 18.

Spiral Binding Company, Inc., assignee: *See*—
November, Milton H.

Springer, Richard, Leipzig, Germany, and W. R. Meyer, Hamden, assignors to Enthone, Incorporated, New Haven, Conn. Dissolving metals and composition therefor. 2,649,361, Aug. 18.

Stabler, Albert, Hammond, Ind., assignor to Sinclair Research Laboratories, Inc., Harvey, Ill. Grease compacter. 2,649,165, Aug. 18.

Stacey, Maurice, and W. G. Overend, Birmingham, assignors, by mesne assignments, to Dextran Limited, Aycliffe, Darlington, England. Synthetic substances of the polysaccharide type. 2,649,421, Aug. 18.

Stafford, Bernard A., West Hartford, assignor to Niles-Bement-Pond Company, New Hartford, Conn. Snap-out form separating device. 2,649,156, Aug. 18.

Stalker, Edward A., Bay City, Mich. Axial flow compressor construction. 2,649,243, Aug. 18.

Stalker, Edward A., Bay City, Mich. Rotor construction for fluid machines. 2,649,278, Aug. 18.

Standard Conveyor Company, assignee: *See*—
Eggleston, Ira S.

Standard Oil Development Company, assignee: *See*—
Alexander, Warren A.
Black, James F.
Sailathiel, Richard A.

Standard Register Company, The, assignee: *See*—
Metzner, Albert W.

Stanin, Theodore E., and J. B. Dickey, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Polymerization of acrylonitrile in presence of formylated polyvinyl alcohol. 2,649,435, Aug. 18.

Steck, Arch L., Oil City, assignor, by mesne assignments, of one-half to Knox Glass Bottle Company, Knox, Pa. Bottle conveying and transfer mechanism. 2,649,183, Aug. 18.

Steel Products Engineering Company, The, assignee: *See*—
Rauenberger, Larence E., and Getz.

Stehman, Carlyle J., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Removal of tar from cuprous chloride catalyst solutions. 2,649,418, Aug. 18.

Stein, John G., Chattanooga, Tenn. Tripod mounting. 2,649,268, Aug. 18.

Steinle, William A., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Making pneumatic tires. 2,649,134, Aug. 18.

Stephan, Hallis, N., Cleveland Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn. Horizontal boring, drilling, and milling machine. 2,648,999, Aug. 18.

Stephens, Nettie M., Lima, Mont. Beautician's utility tray. 2,649,144, Aug. 18.

Stepler, Charles W., Chambersburg, Pa. Adjustable platform for traffic direction. 2,649,341, Aug. 18.

Stevens, Henry W.: *See*—
Arny, Louis W., and Stevens.

Stevenson, Andrew, Los Angeles, Calif. Combination lighter, cigarette holder, and ash tray. 2,649,095, Aug. 18.

Stevenson, Edward E., Whittier, Calif., assignor to United States Steel Corporation. Device for installing or removing standing valves. 2,649,328, Aug. 18.

Stevenson, John H., assignee: *See*—
Richardson, Vernon C. H.

Stewart, Doane: *See*—
Raynor, Richard N., and Stewart.

Stewart, Walter A., Weymouth, England. Hydraulic remote-control system. 2,649,173, Aug. 18.

Stewart-Warner Corporation, assignee: *See*—
Wargo, Peter.

Stihltz, George R., Burlington, Vt., assignor to Barber-Colman Company, Rockford, Ill. Slide rule. 2,649,247, Aug. 18.





Stiegler, August, Towson, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Continuous vulcanizing apparatus. 2,648,872, Aug. 18.

Stoeckicht, Wilhelm G., Munich-Solln, Germany. Planetary speed-reducing and reversing gear. 2,648,998, Aug. 18.

Stone, Oliver M., Cleveland, Ohio. Drawing machine. 2,648,908, Aug. 18.

Stout, William H., and E. S. Pearson, Portland, Greg., assignors to Farmland Irrigation Company, Inc. Self-draining pipe joint. 2,649,105, Aug. 18.

Stratford Engineering Corporation, assignee: *See*—
Putney, David H.

Strätveit, Nils N., Oslo, Norway. Rotary machine. 2,649,053, Aug. 18.

Streck, Clemens, Loudonville, assignor to General Aniline & Film Corporation, New York, N. Y. Dyeing of nylon and acetate silk in situ with ice colors. 2,649,353, Aug. 18.

Streuer, Wilhelm A., Mount Prospect, and E. J. Mastney, Berwyn, Ill., assignors to Oak Mfg. Co. Electric switch. 2,649,512, Aug. 18.

Stripling, Leslie D., Bay City, Tex. Friction clutch. 2,649,175, Aug. 18.

Strobel, Albert F.: *See*—
Williams, William W., and Strobel.

Strom, Gordon H., C. Lichter, and P. Rusinecky, assignors to Automatic Rock-A-Bye, Inc., New York, N. Y. Rocker for infant-carrying devices. 2,649,167, Aug. 18.

Strong, James S., and W. E. Craig, Philadelphia, and V. T. Elkind, Roslyn, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of 1,4-dialkyl-2-ketopiperazines. 2,649,450, Aug. 18.

Stuart, Archibald P.: *See*—
Johnson, Herbert L., and Stuart.

Sulta, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Double-wall portable shelter. 2,649,101, Aug. 18.

Sulfrian, Gerard F., Plainfield, N. J., and H. S. Jacket, Brooklyn, N. Y., assignors to Hofman Laboratories, Inc., Newark, N. J. Liquid helium container with insertable heat exchanger. 2,648,953, Aug. 18.

Sun Oil Company, assignee: *See*—
Boyer, Jackson S.
Johnson, Herbert L., and Stuart.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.

Sundberg, Robert L., Phillipsburg, N. J., C. P. Albus, Easton, Pa., and J. M. Cross, Belvidere, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Corrosion inhibitor composition. 2,649,415, Aug. 18.

Super Speed Printing Machinery, Inc., assignee: *See*—
Adrian, Joseph.

Sutter, Gladys, Culver City, Calif. Garment hanger. 2,649,229, Aug. 18.

Svit. národní podnik, assignee: *See*—
Václavík, Jaroslav and Kopřiva.

Swesey, Arthur W., Garden Grove, Calif., assignor to The Dow Chemical Company, Midland, Mich. Regulation of the growth of undesired vegetation. 2,649,363, Aug. 18.

Swift & Company, assignee: *See*—
Edmonds, Harvey A.
Holts, Harry G.
Rueckert, Dean E.

Swing-A-Way Manufacturing Company, assignee: *See*—
Moore, Walter E.

Syfert, William W., Las Vegas, Nev. Savings bank. 2,648,934, Aug. 18.

T. M. M. (Research) Limited, assignee: *See*—
Haythornthwaite, James J.

Tager, Charles L., assignee: *See*—
Skrebba, Johannes.

Talbot, Richard C.: *See*—
Ferguson, John L., and Talbot.

Talge, Foster L., assignee: *See*—
McLean, Robert E.

Talge, Henry J., assignee: *See*—
McLean, Robert E.

Tampax, Incorporated, assignee: *See*—
Wright, John H., and Lewing.

Taplin, Ronald H.: *See*—
Ransom, David H., Roberts, and Taplin.

Tapp, Harry F., Longmeadow, and R. M. Cochrane, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Air-atomizing oil burner. 2,649,148, Aug. 18.

Tappan Stove Company, The, assignee: *See*—
Mayer, Charles M.
Mayer, Charles M., and Craig.
Perl, Richard L.

Tasker, Homer G., Van Nuys, A. L. Hiebert, Beverly Hills, A. L. Kelsey, North Hollywood, and W. E. Osborne, assignors to Gilfillan Bros., Inc., Los Angeles, Calif. Single scope two-coordinate radar system. 2,649,581, Aug. 18.

Tatem, George C.: *See*—
Pezzillo, Rinaldo F., and A. H., and Tatem.

Taunton, Gerald, Wells, Somerset, assignor to Wilts United Dairies, Limited, Wiltshire, England. Airtight package. 2,649,234, Aug. 18.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Soluble, fusible, convertible unsaturated interpolymers of selected di-2-alkenyl citraconates or mesaconates and selected 2-alkenyl alcohols or chlorides. 2,649,437, Aug. 18.

Taylor, Arthur W. C., D. G. Jones, and M. L. Allan, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of methyl acetylene. 2,649,485, Aug. 18.

Taylor, George J.: *See*—
Dickey, Joseph B., and Taylor.

Taylor, Paul H., Grand Island, assignor to Wales-Strippit Corporation, North Tonawanda, N. Y. Fluid motor. 2,648,949, Aug. 18.

Taylor, Taylor & Hobson Limited, assignee: *See*—
Cook, Gordon H.

Temple, Lemuel M., North Haven, assignor to Olin Industries, Inc., New Haven, Conn. Battery connection. 2,649,493, Aug. 18.

Thompson, Albert: *See*—
Shaw, Harry, Thompson, and Toler.

Thompson, Joe V., Baird, Tex. Arm watch protector. 2,649,230, Aug. 18.

Timlin, Alfred A., De Land, Fla. Hydraulic elevating and transport trailer. 2,649,218, Aug. 18.

Timreck, Albert E.: *See*—
Regna, Peter P., Carboni, and Timreck.

Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Caged nut and retaining bracket therefor. 2,649,126, Aug. 18.

Tinnerman Products, Inc., assignee: *See*—
Tinnerman, George A.

Titone, Anthony J., Corona, N. Y. Preformed necktie. 2,648,846, Aug. 18.

Titus, Thomas L., Cheyenne, Wyo., assignor to Wyott Manufacturing Co., Inc. Liquid dispensing device. 2,649,276, Aug. 18.

Todd, George W., Bronxville, N. Y., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Twin pail. 2,649,223, Aug. 18.

Toldey Company, Gertrude A. Muller, Inc., The, assignee: *See*—
Singleton, Arthur E.

Toler, Thomas I. J.: *See*—
Shaw, Harry, Thompson, and Toler.

Trachtenberg, Robert, Camden, N. J., assignor to the United States of America as represented by the Secretary of the Air Force. Pulse selection. 2,649,543, Aug. 18.

Traisman, Edwin, Des Plaines, Ill., and C. R. Price, Garland, Tex., assignors to Kraft Foods Company, Chicago, Ill. Preserving pimento. 2,649,378, Aug. 18.

Trefzer, Paul: *See*—
Hemmi, Hans M., and Trefzer.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Trimble, Howard B., Sr., and C. D. Berry, Nashville, Tenn. Bar type bottle opener with closure receptacle. 2,649,004, Aug. 18.

Triumph Manufacturing Company, assignee: *See*—
Leuse, William H.

Tronnier, Albrecht W., Gottingen, assignor to Voigtländer & Sohn Aktiengesellschaft, Braunschweig, Germany. Modified Gauss-type four-component photographic objective. 2,649,023, Aug. 18.

Tumpak, John: *See*—
Wagner, Adolph A., Werner, and Tumpak.

Turck, Karl H. W.: *See*—
Bellringer, Frederick J., Bewley, Snell, and Turck.

Turkington, Robert D., Lower Windsor, assignor to Armstrong Cork Company, Lancaster, Pa. Thermocouple. 2,649,489, Aug. 18.

Tyskewicz, John P.: *See*—
Williamson, William R., and Tyskewicz.

Ulanovsky, Jack M., assignor to Paddock Pool Equipment Co., Los Angeles, Calif. Aluminum springboard. 2,649,304, Aug. 18.

Ulrich, Martin T., Centerville, Calif. Spinning and fly reel. 2,649,259, Aug. 18.

Unger, Walter L., San Gabriel, Calif. Piston ring. 2,649,344, Aug. 18.

Union Oil Company of California, assignee: *See*—
Atkins, Earle R., Jr.

Union Totalisator Company, Limited, The, assignee: *See*—
Handley, John.

United Aircraft Corporation, assignee: *See*—
Best, Stanley G., and Pearl.

United-Carr Fastener Corporation, assignee: *See*—
Gosselin, Raymond A.
Jones, Walter I.
Van Buren, Harold S., Jr.

United Engineers & Constructors Inc., assignee: *See*—
Eaton, Gerald L.
Reynolds, Thomas G.

United Shoe Machinery Corporation, assignee: *See*—
Lancaster, John T.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Smith, Robert J.

U. S. Bobbin & Shuttle Company, assignee: *See*—
Gosselin, Wilfrid J.

United States Rubber Company, assignee: *See*—
Little, Julian R.
Steinle, William A.
Tawney, Pliny O.

United States Steel Corporation, assignee: *See*—
Stevenson, Edward E.

Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A.

Universal Winding Company, assignee: *See*—
Sousloff, Dimitri G., and White.
Sousloff, Dimitri G., White, and Hilbert.

University of California, The, Regents of the, assignee: *See*—
Rapoport, Henry.

Upjohn Company, The, assignee: *See*—
Haines, William J., and Collingsworth.
Murray, Herbert C., and Peterson.

Vaccari, Archie J. and N. M., Clairton, Pa. Safety belt for children. 2,649,236, Aug. 18.

Vaccari, Natalina M.: *See*—
Vaccari, Archie J. and N. M.

Václavík, Jaroslav, Gottwaldov I, and M. Kopřiva, Gottwaldov II, assignors to Svit, národní podnik, Gottwaldov, Czechoslovakia. Apparatus for the manufacture of stockings in a single working process. 2,648,960, Aug. 18.

Valencia, Victor C., Lima, Peru. Foot actuated vacuum applicator. 2,649,091, Aug. 18.

Van Brunt, John, Flushing, N. Y., assignor to Combustion Engineering, Inc. Steam generator and superheat-reheat control means therefor. 2,649,079, Aug. 18.

Van Buren, Harold S., Jr., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Removable button member. 2,648,882, Aug. 18.

Van der Heem, Jan, Voorburg, Netherlands. Friction vibration damping means for floor polishers. 2,648,856, Aug. 18.

Vander Wheele, John C., E. C. Britton, and H. C. White, assignors to The Dow Chemical Company, Midland, Mich. Production of diethyl isonitrosomalonate. 2,649,474, Aug. 18.

Van Dresser Specialty Corporation, assignee: *See*—
Shockey, Newton E., and Wilkins.

Van Valkenburg, Howard E.: *See*—
Hardie, Fred H., Goodman, and Van Valkenburg.

Varela, Arthur A., Washington, D. C. Self-pulsing oscillator. 2,649,546, Aug. 18.

Variapat A. G., assignee: *See*—
Martin, Henry.

Vastano, Frederick A., Glen Rock, N. J., K. Erickson, Millbury, and R. R. St. Jean, Auburn, Mass., assignors of one-half to A. W. Vibber, Ridgewood, N. J., and one-half to said Vastano. Container closure. 2,649,220, Aug. 18.

Vaughn, Harold G., assignor to The Ohio Corrugating Company, Warren, Ohio. Container for liquids and semiliquids. 2,649,227, Aug. 18.

Vermilya, Howard P., Princeton, N. J., assignor to American Houses, Inc., New York, N. Y. Building construction. 2,648,877, Aug. 18.

Vesce, Vincent C., Bergen County, N. J., assignor, by means assignments, to The B. F. Goodrich Company, New York, N. Y. Pigmented organic plastics and preparing the same. 2,649,382, Aug. 18.

Vestal, Edwin C., Jr.: *See*—
Gaetani, Robert A., and Vestal.

Vibber, Alfred W., assignee: *See*—
Vastano, Frederick A., Erickson, and St. Jean.

Vincent, Jesse G., Grosse Pointe Park, assignor to Packard Motor Car Company, Detroit, Mich. Transmission. 2,648,992, Aug. 18.

Vingee, Raymond A., Stamford, Conn., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Producing melamine. 2,649,446, Aug. 18.

Vogel, Wilhelm, and H. Seifert, assignors to Maschinenfabric Augsburg-Nurnberg A. G., Augsburg, Germany. Supercharging four-stroke internal-combustion engine. 2,649,083, Aug. 18.

Voigtländer & Sohn Aktiengesellschaft, assignee: *See*—
Tronnier, Albrecht W.

Volker, William, and Company of Missouri, Inc., assignee: *See*—
Cumming, George T.

Volner, J W: *See*—
Duncan, Harry H., and Volner.

Von Allmen, Samuel, and H. Eggenberger, assignors to Sandos A. G., Basel, Switzerland. Sulfonated hydroarylamino anthraquinones. 2,649,465, Aug. 18.

Von Hippel, Arthur, Weston, and M. C. Bloom, Newton Highlands, Mass., assignors, by mesne assignments, to Federal Telephone and Radio Corporation, New York, N. Y. Electrodeposition of selenium. 2,649,409, Aug. 18.

Vulcan Tool Company, The, assignee: *See*—
Zelik, Joseph F., Jennings, and High.

Wagner, Adolph A., A. J. Werner, and J. Tumpak, Milwaukee, Wis.; said Tumpak assignor to said Wagner and said Werner. Taping machine. 2,649,221, Aug. 18.

Wales-Strippit Corporation, assignee: *See*—
Taylor, Paul H.
Weisbeck, Ralph L.

Walker, Brooks, Piedmont, Calif. Venetian blind. 2,649,151, Aug. 18.

Wallace, Earl C.: *See*—
Smith, Milton B., Wallace, and Krieg.

Wallace, Frederick J., assignor to American Cystoscope Makers, Inc., New York, N. Y. Catheter. 2,649,092, Aug. 18.

Walter, Charles T., Harvey, Ill. Household scale. 2,649,294, Aug. 18.

Walter, Charles T.: *See*—
Johnson, Scott R., and Walter.

Walter, Lewis A., Madison, R. H. Barry, Bloomfield, and J. R. Clark, Nutley, assignors to Maltbie Laboratories, Inc., Newark, N. J. α,α-diphenyl-γ-(1-methyl-2-piperidyl)-butyronitrile. 2,649,455, Aug. 18.

Walter, Lewis A., Madison, R. H. Barry, Bloomfield, and J. R. Clark, Nutley, assignors to Maltbie Laboratories, Inc., Newark, N. J. α,α-diphenyl-γ-(N-methyl-2-piperidyl)-butyramides and acid addition and quaternary ammonium derivatives thereof. 2,649,456, Aug. 18.

Walton, Lyle F., Rupert, Idaho. Headgate form. 2,648,888, Aug. 18.

Ware, Walter, assignor to Chicago Roller Skate Company, Chicago, Ill. Roller structure. 2,649,337, Aug. 18.

Wargo, Peter, Maywood, assignor to Stewart-Warner Corporation, Chicago, Ill. Electric tachometer. 2,649,559, Aug. 18.

Warner & Swasey Company, The, assignee: *See*—
Kluter, George L.
Longstreet, James R.

Warren, Robert E., Springfield Gardens, N. Y. Side guard for beds. 2,648,850, Aug. 18.

Warren, S. D., Company, assignee: *See*—
Neugebauer, Wilhelm, Barthenheier, and Rebenstock.

Webb, Mildred G., and G. W. Sest, Nashville, Tenn. Invalid chair for bathtubs. 2,648,849, Aug. 18.

Webber, Charles R.: *See*—
Farnsworth, Richard, Erickson, and Webber.

Weinrich, William W., Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Operation procedure for gas lifts. 2,649,340, Aug. 18.

Weisbeck, Ralph L., Cheektowaga, assignor to Wales-Strippit Corporation, North Tonawanda, N. Y. Master template setup for punch presses. 2,649,157, Aug. 18.

Weiss, Arthur J.: *See*—
Rossi, Harry J., and Weiss.

Welch, Allyn, Inc., assignee: *See*—
Allyn, William N., Cook, Browne, Scott, and Carroll.

Werman, Jacques, Antwerp, Belgium. Hygienic packing for dressings and the like. 2,649,119, Aug. 18.

Werner, Arnold J.: *See*—
Wagner, Adolph A., Werner, and Tumpak.

Werner, Frank R., assignor to The National Cash Register Company, Dayton, Ohio. Cash drawer mechanism. 2,649,246, Aug. 18.

Wernig, James H.: *See*—
Bratton, David H., and Wernig.

West Point Manufacturing Company, assignee: *See*—
Phillips, Joe, and Payne.

Western Electric Company, Incorporated, assignee: *See*—
Bohne, Frederick P.
Frans, Erwin E.
Stiegler, August.

Westfalia Separator, A. G., assignee: *See*—
Willsmann, Wilhelm.

Westinghouse Air Brake Company, assignee: *See*—
Marlowe, Elbert W., and Brannen.
Smith, Harry R.

Westinghouse Electric Corporation, assignee: *See*—
Hansen, Hans E.
Kirby, Joseph J., and McGowan.
Miller, Ernest F.
Woodman, Kenneth L.

Weston Electrical Instrument Corporation, assignee: *See*—
Lamb, Anthony H.

Weyer, Ferdinand M., assignor to Marine Products Company, Detroit, Mich. Rotary pump or motor. 2,649,052, Aug. 18.

Weynand, Paul, San Antonio, Tex. Valve seat grinding apparatus. 2,648,938, Aug. 18.

Wheatley, William B., assignor to Bristol Laboratories Inc., Syracuse, N. Y. Copper 7-benzyl-8-quinolinate. 2,649,451, Aug. 18.

Wheeler, Ellen R., Fairfield, Conn. Spectacle band. 2,649,020, Aug. 18.

Wheeler, Gordon D., and J. H. Reilly, Monte Vista, Colo. Refrigerated carton. 2,648,954, Aug. 18.

White, Arnold C.: *See*—
Sousloff, Dimitri G., and White.
Sousloff, Dimitri G., White, and Hilbert.

White, Frank L.: *See*—
Brooker, Leslie G. S., and White.

White, Halbert C.: *See*—
Vander Weele, John C., Britton, and White.

White, Theodore, and J. R. R. Hastings, assignors to The Forestal Land, Timber and Railways Company, Limited, London, England. Manufacture of leather. 2,649,355, Aug. 18.

Wickman, Randolph F., Los Angeles, Calif. Barbecue roaster. 2,649,042, Aug. 18.

Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Cutter for producing gears. 2,648,894, Aug. 18.

Wildt and Company Limited, assignee: *See*—
Holmes, Henry H.





Wilhelmi, Dudley R., Tacoma, Wash. Offset hinge construction for laminated plywood cupboards and doors. 2,648,870, Aug. 18.

Wilkins, Howard W.: *See*—
Shockey, Newton E., and Wilkins.

Williams, Jonathan W., Hyattsville, Md. Antivesicant compounds and clothing impregnated therewith. 2,649,389, Aug. 18.

Williams, William K., Irving, and M. E. Krogh, Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa. Cementing casings in oil wells. 2,649,160, Aug. 18.

Williams, William W., Easton, Pa., and A. F. Strobel, Phillipsburgh, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Preparing methine dyes. 2,649,471, Aug. 18.

Williamson, Ollie L.: *See*—
Newton, Russell B., and Williamson.

Williamson, William R., and J. P. Tyskewicz, assignors to The Maxim Silencer Company, Hartford, Conn. Evaporator. 2,649,408, Aug. 18.

Wills, John H., Chester, and J. F. Hazel, Havertown, assignors to Philadelphia Quartz Company, Philadelphia, Pa. Manufacture of silica filled materials. 2,649,388, Aug. 18.

Wilsmann, Wilhelm, Oelde, Westphalia, assignor to Westfalia Separator, A. G., Oelde, Germany. Continuous buttermaking process and apparatus. 2,649,377, Aug. 18.

Wilson, Glenn C., Oak Park, Ill. Paper form holder. 2,649,208, Aug. 18.

Wilson, Harley, assignee: *See*—
Hayes, Clyde B.

Wilson, John S., Vancouver, British Columbia, Canada. Movable skyline terminal. 2,649,209, Aug. 18.

Wilts United Dairies, Limited, assignee: *See*—
Taunton, Gerald.

Wiltse, Tracy R., Des Moines, Iowa. Shoe scraper. 2,648,864, Aug. 18.

Winger, Stover C., Los Angeles, assignor of fifteen per cent to J. Flam, Beverly Hills, Calif. Selective one-way drive. 2,649,176, Aug. 18.

Winters, James C., Glenside, Pa., and R. Kunin, Trenton, N. J., assignors to Rohm & Haas Company, Philadelphia, Pa. Treating sugar solutions with ion-exchange resins. 2,649,390, Aug. 18.

Wirkus, Allen J., Fond du Lac, Wis. Toilet tank. 2,648,848, Aug. 18.

Wirtz Company, assignee: *See*—
Wirtz, Robert W.

Wirtz, Robert W., assignor to Wirtz Company, Peoria, Ill. Photocomposing mechanism. 2,649,036, Aug. 18.

Wirz, A. H., Inc., assignee: *See*—
Lay, John L.

Withall, William E., Hinsdale, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway draft rigging. 2,649,212, Aug. 18.

Withall, William E., Hinsdale, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway draft riggings. 2,649,213, Aug. 18.

Witt, Ralph K., W. G. Carson, and B. L. Raskin, Baltimore, Md. Producing a bonded structure. 2,649,396, Aug. 18.

Wittmann, Robert A., Chicago, Ill. Magnetic pilot valve. 2,649,114, Aug. 18.

Woebcke, Herman N.: *See*—
Benedict, Manson, Faatz, and Woebcke.

Wolna, Benjamin A., Salem, and A. W. Richards, Chagrin Falls, Ohio, assignors to American Fixture and Manufacturing Co., St. Louis, Mo. Ball bearing slide structure for table furniture. 2,649,346, Aug. 18.

Wojcik, Walter A., and M. Yetsko, Detroit, Mich. Alarm-initiating device for automobiles. 2,649,516, Aug. 18.

Wolfe, John W., assignee: *See*—
Armstrong, David T.

Wood, Louvan E., Glen Arm, and V. D. Hauck, Towson, assignors to Bendix Aviation Corporation, Baltimore, Md. Apparatus for measuring and recording the direction and velocity of wind. 2,648,980, Aug. 18.

Woodburn, Joseph J., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Foldable backguard for electric ranges. 2,649,531, Aug. 18.

Wood Conversion Company, assignee: *See*—
Crewson, Allen M.

Woodman, Kenneth L., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Water heater apparatus. 2,649,532, Aug. 18.

Woods, Robert M., Skokie, Ill. Cake baking and tenderizing process. 2,649,379, Aug. 18.

Wooldridge, Marion J., Burbank, and G. P. Carver, Northridge, assignors to Garlinghouse Brothers, Los Angeles, Calif. Monowheel tractor. 2,649,162, Aug. 18.

Wormell, Robert L.: *See*—
Happey, Frank, and Wormell.

Wright, John H., Clearwater, Fla., and A. W. Lewing, Monson, Mass., assignors to Tampax, Incorporated, New York, N. Y. Douche composition. 2,649,398, Aug. 18.

Wrigley, Walter: *See*—
Slater, John M., and Wrigley.

Wulff, Cal W., and F. G. Newman, Chicago, Ill., assignors to Holland Company. Volute spring. 2,649,298, Aug. 18.

Wyott Manufacturing Co., Inc., assignee: *See*—
Titus, Thomas L.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Diesel, Richard H.
Heyer, Frederic K.
Spain, Roy C.

Yarrow, Joseph S., Litchfield County, Conn. Oscillatory motor. 2,649,551, Aug. 18.

Yelverton, Elum L., Laurel, Miss. Waste grab preventer and lubricating device. 2,649,343, Aug. 18.

Yetsko, Metro: *See*—
Wojcik, Walter A., and Yetsko.

Young, David C., assignor to The Dow Chemical Company, Midland, Mich. Stabilizing and purifying phenylacetaldehyde. 2,649,462, Aug. 18.

Young, Vernon V., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Penicillin salts of n-methyl-(1,2-di-p-methoxyphenyl-2-hydroxyethyl) amine. 2,649,443, Aug. 18.

Youtz, Philip N., Yorktown Heights, N. Y. Form for casting elongated concrete building units T shape in cross section. 2,648,889, Aug. 18.

Zaenkert, Frederick A.: *See*—
Schmidt, Carl O., Jr., and Zaenkert.

Zalger, Louis, Swampscott, and R. I. Lappin, Marblehead, Mass. Control system for windshield wipers. 2,649,562, Aug. 18.

Zajdel, Casimir M., Chicago, Ill. Length measuring unit for work in lathes and screw machines. 2,648,909, Aug. 18.

Zaleski, John F., Queens Village, N. Y., assignor to General Precision Laboratory Incorporated. Microwave detector. 2,649,544, Aug. 18.

Zaleski, John F., Valhalla, N. Y., assignor to General Precision Laboratory Incorporated. Microwave hollow guide power divider. 2,649,575, Aug. 18.

Zehrbaugh, Frank H.: *See*—
Hawkins, Charles A., and Zehrbaugh.

Zelik, Joseph F., F. A. Jennings, and F. A. High, assignors to The Vulcan Tool Company, Dayton, Ohio. Pneumatic grinder. 2,648,939, Aug. 18.

Zenith Radio Corporation, assignee: *See*—
Ellett, Alexander.
Spindler, Joseph C.

Zickendraht, Christian, Binningen, assignor to Ciba Limited, Basel, Switzerland. Manufacture of nitro-amino-hydroxybenzene-sulfonic acid amides. 2,649,479, Aug. 18.

# LIST OF REISSUE INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 18TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Dental impression composition. E. H. Lochridge. Re. 23,700, Aug. 18.

1-carbalkoxy-4-substituted piperazines. R. J. Turner and H. W. Stewart. Re. 23,702, Aug. 18.

Piston for use in eduction pipes of apparatus for raising liquid in wells, Free. N. F. Brown. Re. 23,698, Aug. 18.

Pulse delay circuit. H. L. Havens. Re. 23,699, Aug. 18.

Substituted piperazines and preparing same. H. W. Stewart and E. G. Lee. Re. 23,701, Aug. 18.

# LIST OF DESIGN INVENTIONS

Aircraft, Rotary wing. E. W. Strong. 170,247, Aug. 18.
Antenna, Television. R. N. Leonard. 170,203, Aug. 18.
Approach horizon. A. A. Collins and R. W. Wollan. 170,183, Aug. 18.
Brooch or the like. A. Philippe. 170,208–9, Aug. 18.
Brooch or the like. A. Philippe. 170,213–14, Aug. 18.
Brooch or the like. A. Philippe. 170,221–4, Aug. 18.
Brooch or the like. A. Philippe. 170,228, Aug. 18.
Cabinet, Display. C. W. Long. 170,204, Aug. 18.
Chain for a bracelet or similar article, Link. J. V. Saccone. 170,244–5, Aug. 18.
Chain for a bracelet or the like, Link. A. Philippe. 170,210, Aug. 18.
Chain for a necklace or the like, Link. A. Philippe. 170,229, Aug. 18.
Course indicator. A. A. Collins and H. M. Schweighofer. 170,184, Aug. 18.
Cup hook. O. Gries. 170,196, Aug. 18.
Dress. D. E. Gothé. 170,191, Aug. 18.
Dress. J. S. Gross. Dress. 170,197, Aug. 18.
Dress. B. Kalish. 170,200–1, Aug. 18.
Drill unit. A. B. Crichton, Jr. 170,185, Aug. 18.
Earring or the like. A. Philippe. 170,207, Aug. 18.
Earring or the like. A. Philippe. 170,212, Aug. 18.
Earring or the like. A. Philippe. 170,216–20, Aug. 18.
Earring or the like. A. Philippe. 170,225–7, Aug. 18.
Fitting for tubular structures. W. Raylor. 170,238–40, Aug. 18.
Front plate for a circulating fireplace heater. A. P. Robinson. 170,242, Aug. 18.
Handbag. S. Hyman. 170,199, Aug. 18.
Handle for portable picture screens or the like. F. J. Prokop. 170,236, Aug. 18.
Hat. S. Weinstein. 170,251, Aug. 18.
Holder, Calendar-type lipstick. J. A. Welebny. 170,252, Aug. 18.
Lamp, Table. A. Arch. 170,181, Aug. 18.
Lighter. K. M. Van Norman. 170,250, Aug. 18.
Necklace or the like. A. Philippe. 170,211, Aug. 18.
Necklace or the like. A. Philippe. 170,215, Aug. 18.
Necktie, Preformed. P. F. Spaniol. 170,246, Aug. 18.
Plaque, Religious. L. F. Mancini and D. M. Bauernfeind. 170,205, Aug. 18.
Playing card and poker chip case or similar article, Combined. W. W. Morgenweck. 170,206, Aug. 18.
Polishing unit, Floor. W. C. Harris. 170,198, Aug. 18.
Ring and handkerchief holder, Combined finger. B. L. Robbins. 170,241, Aug. 18.
Saw. R. D. Knapp. 170,202, Aug. 18.
Ski or similar article, Aircraft. H. S. Green. 170,192–5, Aug. 18.
Soap dish, tumbler, and toothbrush holder, Combined. J. Di Sopra. 170,186, Aug. 18.
Sofa, Living room. H. P. Glass. 170,190, Aug. 18.
Sofa, Sectional. H. P. Glass. 170,189, Aug. 18.
Stool. L. D. Royal. 170,243, Aug. 18.
Toy cow. L. J. Campbell. 170,182, Aug. 18.
Tray, Serving. W. H. Randall. 170,237, Aug. 18.
Wall fixture for deodorizing lamps. C. W. Flood, Jr. 170,188, Aug. 18.
Wallet and holder for manicuring and sewing accessories, Combined. N. Eichel. 170,187, Aug. 18.
Wheel cover. B. Plotkin. 170,230–5, Aug. 18.
Wheel ornament for motor vehicles. C. W. Sundberg. 170,248–9, Aug. 18.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 18TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive Composition. C. C. Fowler. 2,649,362, Aug. 18.
Absorption of carbon dioxide from gases containing the same. F. Porter and J. C. Eck. 2,649,166, Aug. 18.
Acrylonitrile, Producing. G. H. Lovett. 2,649,472, Aug. 18.
Adapter for cameras, Range finder. W. Blue. 2,649,038, Aug. 18.
Adding yarn ends, Method and apparatus for. R. C. Pollman. 2,648,891, Aug. 18.
Adhesive containing a butadiene styrene copolymer. G. E. Hulse. 2,649,425, Aug. 18.
Air-atomizing oil burner. H. F. Tapp and R. M. Cochrane. 2,649,148, Aug. 18.
Air cooler. J. W. Brown, Jr. 2,649,285, Aug. 18.
Airplane with stabilizing fins. C. H. Grant. 2,649,265, Aug. 18.
Airtight package. G. Taunton. 2,649,234, Aug. 18.
Alarm-initiating device for automobiles. W. A. Wojcik and M. Yetsko. 2,649,516, Aug. 18.
Alimentary food product machine. F. Autenrieth. 2,649,056, Aug. 18.
Alkylbenzenesulfonamideethylene oxide condensation products, Long-chain. J. J. Carnes. 2,649,478, Aug. 18.
α,α-diphenyl-γ-(N-methyl-2-piperidyl)-butyramides and acid addition and quaternary ammonium derivatives thereof. L. A. Walter, R. H. Barry, and J. R. Clark. 2,649,456, Aug. 18.
α,α-diphenyl-γ-(1-methyl-2-piperidyl)-butyronitrile. L. A. Walter, R. H. Barry, and J. R. Clark. 2,649,455, Aug. 18.
Alloy: *See*—
Cadmium-free low fusing point alloy.
Indium-bismuth-lead alloy.
Indium-bismuth-tin alloy.
Amino ketones, Preparation of. P. A. Harrett. 2,649,444, Aug. 18.
Analytical sample cell. J. F. Black. 2,649,011, Aug. 18.
Animal trap. A. W. Salokar. 2,648,930, Aug. 18.
Antenna, Loop. J. C. Spindler. 2,640,545, Aug. 18.
Antirattling device for windows. A. E. Giguere. 2,649,326, Aug. 18.
Antivesicant compounds and clothing impregnated therewith. J. W. Williams. 2,649,389, Aug. 18.
Apparatus and method for combining yarns. R. E. McDonald. 2,648,890, Aug. 18.
Apparatus for cleaning a sight glass and the like. E. M. Kelly and S. I. Bousman. 2,648,857, Aug. 18.
Apparatus for closing off the eurethra of women. H. Sluijter. 2,649,086, Aug. 18.
Apparatus for continuous frothing of rubber latex. C. S. McChesney. 2,649,287, Aug. 18.
Apparatus for deinking and defibering wastepaper. C. S. Reid. 2,649,371, Aug. 18.
Apparatus for determining pressure in containers. J. Mills. 2,648,977, Aug. 18.
Apparatus for handling veneer. C. E. Parker. 2,649,182, Aug. 18.
Apparatus for making stiffened wrappers. W. S. Cloud. 2,649,035, Aug. 18.
Apparatus for measuring and recording the direction and velocity of wind. L. E. Wood and V. D. Hauck. 2,648,980, Aug. 18.
Apparatus for refractometry. P. D. Schnelle. 2,649,013, Aug. 18.
Apparatus for refractometry utilizing photocelements. S. E. J. Johnsen. 2,649,014, Aug. 18.
Apparatus for remote control bombing. D. S. Fahrney. 2,649,262, Aug. 18.
Apparatus for the manufacture of stockings in a single working process. J. Václavík and M. Kopřiva. 2,648,960, Aug. 18.
Apparatus for treating continuous products. E. L. Huff. 2,649,099, Aug. 18.
Apparatus for unloading continuous baking ovens. A. A. Holbeck. 2,649,058, Aug. 18.
Applicator for sealing packages. H. G. Holtz. 2,649,072, Aug. 18.
Applying wall finishes, Method and apparatus for. J. H. Reichert. 2,648,887, Aug. 18.
Area measuring device. H. D. and M. I. Goldberg. 2,649,573, Aug. 18.
Arm watch protector. J. V. Thompson. 2,649,230, Aug. 18.
Artificial protein threads, fibers, filaments, and the like, Production of. F. Happey and R. L. Wormell. 2,649,357, Aug. 18.
Artist's box. I. Brooks and A. Friedberg. 2,648,933, Aug. 18.
Arylenethiazole vulcanization accelerators, Preparation of. D. J. Beaver. 2,649,457, Aug. 18.
Asphalt composition and preparing the same. A. P. Anderson. 2,649,384, Aug. 18.
Astatic material. S. A. Simon and A. H. Drelich. 2,640,143, Aug. 18.
Atomizer. H. Schneider. 2,649,334, Aug. 18.
Attachment for sewing machines, Buttonhole. H. H. Russell. 2,649,063, Aug. 18.
Automatic reset restriction valve. H. Barnett and E. Saballus. 2,649,112, Aug. 18.
Automatic slack adjusting mechanism. K. B. MacDougall. 2,648,996, Aug. 18.
Automatic window cleaner. G. A. Christos. 2,648,866, Aug. 18.
Auxiliary spacer for dual tire wheel assemblies. H. H. Duncan and J. W. Voiner. 2,649,338, Aug. 18.
Azo pigment and coating compositions containing the same. D. B. Killian and A. D. Reidinger. 2,649,383, Aug. 18.
Backguard for electric ranges, Foldable. J. J. Woodburn. 2,649,531, Aug. 18.
Bag opening process and machine, including movable bag opening arms. H. A. Edmonds. 2,649,235, Aug. 18.
Ball bearing slide structure for table furniture. B. A. Woina and A. W. Richards. 2,649,346, Aug. 18.
Ball nut and lever steering gear. W. H. Doerfner and J. C. Helveston. 2,648,994–5, Aug. 18.
Bank, Savings. W. W. Syfert. 2,648,934, Aug. 18.
Bar: *See*—
Faller bar.
Bar with canted pins, Faller. J. R. Longstreet. 2,648,874, Aug. 18.
Barium-chromium-copper-silica-containing catalyst, Preparation of. A. F. MacLean. 2,649,420, Aug. 18.
Barrel chair. R. S. Sanford and P. F. Simpson. 2,649,146, Aug. 18.
Barrels and the like, Manufacture of. A. C. Merron. 2,649,124, Aug. 18.
Bassinet liner. J. L. Meredith, Jr., and B. B. Meredith. 2,649,533, Aug. 18.
Batch processing discrete articles. G. M. Flynn. 2,649,380, Aug. 18.
Battery cap. H. A. Kennedy. 2,649,495, Aug. 18.
Battery charging control responsive to gas pressure. D. G. Thrig. 2,649,565, Aug. 18.
Battery connection. L. M. Temple. 2,649,493, Aug. 18.
Belt conveyer driving unit. A. W. Duncan. 2,649,188, Aug. 18.
Belt for children, Safety. A. J. and N. M. Vaccari. 2,649,236, Aug. 18.
Bib and apron, combination. H. L. Berman. 2,648,845, Aug. 18.
Bitt-chock. C. G. Halpine. 2,649,069, Aug. 18.
Blank for box production. C. L. Gilbert. 2,649,240, Aug. 18.
Blanking arrangement for subscription television receivers. A. Ellett. 2,649,498, Aug. 18.
Block: *See*—
Snatch block.
Blower, Variable capacity. E. L. Payne. 2,649,242, Aug. 18.
Bobbin hanger. D. G. Soussloff, A. C. White, and R. G. Hilbert. 2,640,253, Aug. 18.
Bolt assembly. B. J. Craig. 2,649,323, Aug. 18.
Bonding machine, Brake shoe. H. B. Barrett. 2,649,132, Aug. 18.
Bookholder, Knockdown. M. J. Deveau. 2,648,931, Aug. 18.
Boom crane combination, Folding. A. Marchese. 2,649,210, Aug. 18.
Boom swivel device for locomotive cranes, Horizontal. C. L. Fero. 2,649,211, Aug. 18.
Bottle conveying and transfer mechanism. A. L. Steck. 2,649,183, Aug. 18.
Bottle opener with closure receptacle, Bar type. H. B. Trimble Sr., and C. D. Berry. 2,649,004, Aug. 18.
Box: *See*—
Artist's box.
Brake: *See*—
Steering column brake.
Bridge for resistance measurement. R. J. Smith. 2,649,571, Aug. 18.

Broom with metal handle. A. L. Le Febvre. 2,648,860, Aug. 18.
Brush and making. K. V. Hardman and A. J. Lang. 2,648,861, Aug. 18.
Brushmaking machine. A. F. Anderson. 2,649,336, Aug. 18.
Buckle, Bale band tie. W. E. Brown. 2,648,880, Aug. 18.
Building construction. H. P. Vermilya. 2,648,877, Aug. 18.
Bumper and step and trailer-hitch unit. W. E. Bice, Jr. 2,649,308, Aug. 18.
Bumper, Truck dock. F. B. Schuyler. 2,649,295, Aug. 18.
Burner: *See*—
Air-atomizing oil burner.
Cabinet: *See*—
Foldable cabinet.
Burner control unit, Thermally responsive oven. R. L. Perl. 2,649,524, Aug. 18.
Burner for cooking ranges, Gas-fueled broiler. C. M. Mayer. 2,649,149, Aug. 18.
Burner with built-in thermocouple, Pilot. G. P. Greenamyer. 2,649,490, Aug. 18.
Butt welding tube ends by induction heating. E. C. Chapman and R. E. Lorentz, Jr. 2,649,527, Aug. 18.
Buttermaking process and apparatus, Continuous. W. Willmann. 2,649,377, Aug. 18.
Button member, Removable. H. S. van Buren, Jr., 2,648,882, Aug. 18.
Cabinet for sound translating apparatus. H. F. Olson and J. Preston. 2,649,164, Aug. 18.
Cadmium-free low fusing point alloy. A. A. Smith, Jr. and J. L. Everhart. 2,649,367, Aug. 18.
Caged nut and retaining bracket therefor. G. A. Tinnerman. 2,649,126, Aug. 18.
Cake baking and tenderizing process. R. M. Woods. 2,649,379, Aug. 18.
Calculating mechanism. C. A. Parker. 2,649,250, Aug. 18.
Calendar, Calculating. O. F. Bryant. 2,649,248, Aug. 18.
Camera control system for the sequential operation of cameras. E. Nassour. 2,649,015, Aug. 18.
Can distributor, Automatic. T. C. Dodge. 2,649,184, Aug. 18.
Cane gathering device. G. S. Powers. 2,648,944, Aug. 18.
Cap: *See*—
Battery cap.
Novelty cap.
Spout cap.
Carburetor. G. Griffon. 2,649,290, Aug. 18.
Card shuffler, Playing. W. E. Schoultz. 2,649,305, Aug. 18.
Carriage feeding escapement mechanism. J. P. Barkdoll. 2,649,179, Aug. 18.
Carton, Refrigerated. G. D. Wheeler and J. H. Reilly. 2,648,954, Aug. 18.
Case: *See*—
Tie case.
Case for a package of cigarettes. J. F. Babbitt. 2,649,194, Aug. 18.
Case loading method and apparatus, Automatic. J. L. Ferguson and R. C. Talbot. 2,649,231, Aug. 18.
Cash drawer mechanism. F. R. Werner. 2,649,246, Aug. 18.
Catheter. F. J. Wallace. 2,649,092, Aug. 18.
Cell, Dry. M. Lang. 2,649,491, Aug. 18.
Cell, Voltaic. A. Linton and R. W. Lewis. 2,649,492, Aug. 18.
Cellulose nitration, Continuous. W. C. Ramsey. 2,649,441, Aug. 18.
Cementing casings in oil wells. W. K. Williams and M. E. Krogh. 2,649,160, Aug. 18.
Centrifugal pump. T. J. R. Dibdin. 2,649,050, Aug. 18.
Chair: *See*—
Barrel chair.
Folding chair.
Metal chair.
Push chair.
Chair and steerable wheel attachment therefor, Foldable wheel. D. D. Delsaner. 2,649,309, Aug. 18.
Chair fitting device. S. H. Brown. 2,648,910, Aug. 18.
Chair for bathtubs, Invalid. M. G. Webb and G. W. Seat. 2,648,849, Aug. 18.
Charge forming device. L. E. Martienssen. 2,649,081, Aug. 18.
Chart, String instrument instruction. F. and J. Bova. 2,649,008, Aug. 18.
Check valve. R. H. Blackford. 2,649,277, Aug. 18.
Chloracetic acid ester of diphenyl ethanols. M. E. Speeter. 2,649,445, Aug. 18.
Cigarette extinguishing device. J. J. Fuller. 2,649,096, Aug. 18.
Cigarette package and matchbook container. D. D. Hayes. 2,649,102, Aug. 18.
Circuit: *See*—
Counterelectro motive force derivation circuit.
Electric potential comparing circuit.
Pulse delay circuit.
Teletypewriter circuit.
Circuit for wideband amplifiers, Interstage coupling. C. W. Harrison. 2,649,508, Aug. 18.
Circuits employing gaseous discharge tubes, Electrical. A. D. Odell. 2,649,502, Aug. 18.
Clamp for installing tire chains, Resilient. D. K. Randal. 2,649,005, Aug. 18.
Clamp shoe with tiltable work engaging element, Removable. D. A. Gulland. 2,649,123, Aug. 18.
Clarification. A. M. Kivari and E. M. Kelly. 2,649,412, Aug. 18.
Clasp, Magnetic. N. E. Loofboro. 2,648,884, Aug. 18.
Cleaner: *See*—
Automatic window cleaner.
Cleaning device having agitator drive belting in air duct and conversion passageway independent of belting, Suction. W. A. Humphrey. 2,648,868, Aug. 18.
Clevis attachment, Insulator. J. H. Gledhill. 2,649,319, Aug. 18.
Clutch: *See*—
Friction clutch.
Clutch actuating means for hand brakes of railway cars. R. J. Olander. 2,648,984, Aug. 18.
Clutch and brake device. E. P. Cox. 2,649,174, Aug. 18.
Coating material, Protective. R. G. Brand. 2,649,424, Aug. 18.
Coffee maker. L. Burgess. 2,649,041, Aug. 18.
Coke-oven by-product recovery. G. L. Eaton. 2,649,403, Aug. 18.
Coke-oven by-product recovery. G. L. Eaton. 2,649,405, Aug. 18.
Coke-oven by-product recovery. T. G. Reynolds. 2,649,404, Aug. 18.
Cold bending sheet metal, Means and method of. A. L. Schoellerman. 2,649,128, Aug. 18.
Collapsible ballot receptacle. R. R. Miller. 2,649,244, Aug. 18.
Combustor igniter cup which becomes incandescent from combustion therein. T. G. McDougal. 2,648,951, Aug. 18.
Communication system, Multiplex radiophone. J. H. Homrighous. 2,649,540, Aug. 18.
Compositions containing a polymer of acrylonitrile and N, N-dimethylacetamide. C. S. Marvel. 2,649,427, Aug. 18.
Compressor construction, Axial flow. E. A. Stalker. 2,649,243, Aug. 18.
Concentrator. A. E. Jones. 2,649,202, Aug. 18.
Concrete distributing machine, Conveyor type. E. H. Lichtenberg. 2,649,185, Aug. 18.
Concrete gun. S. H. Giberson. 2,649,289, Aug. 18.
Confection molding. C. R. Niklason. 2,649,057, Aug. 18.
Conjugated oestrogenic quaternary ammonium salts and their preparation. D. Beall and G. A. Grant. 2,649,399, Aug. 18.
Connector: *See*—
Fused electric connector.
Wedge type wire connector.
Connector for resilient structures, Electrical. M. H. Luke. 2,649,267, Aug. 18.
Consumer type container. L. C. Brooks. 2,649,238, Aug. 18.
Contact. C. L. Harvey. 2,649,525, Aug. 18.
Contact breaker of ignition systems for internal-combustion engines. L. Delorme. 2,649,515, Aug. 18.
Contacting gases and solids. G. H. Palmer. 2,649,358, Aug. 18.
Container: *See*—
Consumer type container.
Sealed container.
Slide container.
Container and cap therefor. F. H. Jobson. 2,649,225, Aug. 18.
Container closure. F. A. Vastano, K. Erickson, and R. R. St. Jean. 2,649,220, Aug. 18.
Container for liquids and semiliquids. H. G. Vaughn. 2,649,227, Aug. 18.
Container package structure. W. Jameson. 2,649,197, Aug. 18.
Container with insertable heat exchanger, Liquid helium. G. F. Sulfrian and H. S. Jacket. 2,648,953, Aug. 18.
Container inspection device. J. H. Osgood. 2,648,912, Aug. 18.
Control mechanism for photographic copying apparatus. G. W. Schnetzer, Jr. 2,649,018, Aug. 18.
Control of driving motors of teleprinters. L. S. Munck. 2,649,497, Aug. 18.
Control system, Automatic. F. W. Meredith. 2,649,564, Aug. 18.
Control system for windshield wipers. L. Zaiger and R. I. Lappin. 2,649,562, Aug. 18.
Control system, Switch and signal. N. D. Preston. 2,649,536, Aug. 18.
Control system, Television raster shape. R. K. Lockhart. 2,649,555, Aug. 18.
Cooler: *See*—
Air cooler.
Copolymers of acrylonitrile and basic acrylamides. H. A. Bruson. 2,649,438, Aug. 18.
Copper 7-benzyl-8-quinolinate. W. B. Wheatley. 2,649,451, Aug. 18.
Corrosion inhibitor composition. R. L. Sundberg, C. P. Albus, and J. M. Cross. 2,649,415, Aug. 18.
Counterbalance and support means for ceiling-mounted folding stairways. W. Bjorklund and H. Kartarik. 2,649,237, Aug. 18.
Counter display for flashlights and batteries. J. C. Calhoun, W. L. Davidson, and K. J. Hansen. 2,649,348, Aug. 18.
Counterelectromotive force derivation circuit. O. E. Carlson. 2,649,572, Aug. 18.
Counting mechanism. J. Handley. 2,649,249, Aug. 18.





Coupling: *See*—
Flexible coupling.
Coupling for conveyors, Universal. M. J. Anderson. 2,649,177, Aug. 18.
Cover: *See*—
Protective cover.
Toilet tissue cover.
Cradle control for carcass delairing device. C. O. Schmidt, Jr. and F. A. Zaenkert. 2,648,871, Aug. 18.
Cross-head connection. A. A. Ashton. 2,649,342, Aug. 18.
Crushing or cracking ice, Method of and means for. A. Lee and E. Lieberman. 2,648,955, Aug. 18.
Currying machine for connection with vacuum systems. S. J. Erling. 2,648,867, Aug. 18.
Curtain rod holder. C. A. Hart. 2,649,269, Aug. 18.
Cushion assembly for automotive vehicles, Safety. J. W. Hetrick. 2,649,311, Aug. 18.
Cutter: *See*—
Hair cutter.
Hydraulically operated paper cutter.
Motor operated cutter.
Rotary cutter.
Cutter for producing gears. E. Wildhaber. 2,648,894, Aug. 18.
Cutting device, Thong. W. Hinsche. 2,648,905, Aug. 18.
Cutting machine, Hydraulic. L. D. Barley. 2,649,153, Aug. 18.
Cyanoalkyl substituted amine sulfides. M. W. Harman. 2,649,470, Aug. 18.
Depth control device for fishing tackle. G. W. Dunn. 2,648,929, Aug. 18.
Derivatives of 2,7-diaminothiozanthone dioxide. E. D. Amstutz. 2,649,460, Aug. 18.
Detector for seismic exploration. W. A. Alexander. 2,649,579, Aug. 18.
Device for controlling the passage of a fluid. P. P. Honegger. 2,649,273, Aug. 18.
Device for dosing urea in blood and in urine. F. P. Masellis. 2,649,359, Aug. 18.
Device for gravity feed of gears to gear shaving tools. A. D. F. Moncrieff. 2,649,032, Aug. 18.
Device for installing or removing standing valves. E. E. Stevenson. 2,649,328, Aug. 18.
Device for intermittently discharging fluid under pressure. G. M. Peltz and H. Bovin. 2,649,331, Aug. 18.
Device for making hollow bodies of sheet metal under hydraulic pressure. H. E. Kranenberg. 2,649,067, Aug. 18.
Device for removing liquid from filamentary strands. C. W. Cox. 2,648,965, Aug. 18.
Device for retaining reel connectors. C. E. Badik and J. J. Reilly, Jr. 2,649,261, Aug. 18.
Device for testing impact resistance of frangible articles. J. R. Eves. 2,648,975, Aug. 18.
Device for use in filling cavities in teeth. H. M. Holmes. 2,648,906, Aug. 18.
Diaphragm actuated electrical switch. K. T. Fuehring. 2,649,518, Aug. 18.
Die cutting machine. R. W. Jack and H. E. Montgomery. 2,649,033, Aug. 18.
Diethyl isonitrosomalonate, Production of. J. C. Vander Weele, E. C. Britton, and H. C. White. 2,649,474, Aug. 18.
Diffuser for mouthpieces, Smoke. J. L. Barbara. 2,649,094, Aug. 18.
Dihydromorphinone, dihydrocodeinone, and dihydropseudocodeinone, Preparing. H. Rapoport. 2,649,454, Aug. 18.
Dishwashing machine. W. E. Frech. 2,649,100, Aug. 18.
Dispensing device, Liquid. T. L. Titus. 2,649,276, Aug. 18.
Display and delivery device. L. P. Shield. 2,649,207, Aug. 18.
Disposal of sludge from electrolytic preparation of sodium. B. E. Hodge. 2,649,413, Aug. 18.
Dissolving metals and composition therefor. R. Springer and W. R. Meyer. 2,649,361, Aug. 18.
Dissolving solutes in liquids, Method and apparatus for. L. S. Hannibal. 2,649,203, Aug. 18.
Distributor and making the same. H. P. Luhn. 2,649,513, Aug. 18.
Diverter for pneumatic conveyers, Automatically resetting. D. E. Schaetzel and R. J. Childress. 2,649,339, Aug. 18.
Document-actuated device for effectively delaying a switching interval. J. F. Egan. 2,649,517, Aug. 18.
Doffing mechanism for ring spinning, doubling, and twisting machines. J. J. Haythornthwaite. 2,648,947, Aug. 18.
Door: *See*—
Metal door.
Door and rack, Broiler. R. B. Hurt. 2,649,085, Aug. 18.
Door construction, Folding. F. J. Hoke and R. W. Reynolds. 2,649,150, Aug. 18.
Door latch. T. Kanell. 2,649,324, Aug. 18.
Douche composition. J. H. Wright and A. W. Lewing. 2,649,398, Aug. 18.
Drag hook. H. Fortin and A. J. Gosselin. 2,649,327, Aug. 18.
Drawing machine. O. M. Stone. 2,648,908, Aug. 18.
Drier: *See*—
Rotary steam drier.
Drill: *See*—
Inserted tooth rock drill.
Drilling mud. R. A. Saiathiel. 2,649,414, Aug. 18.
Dustpan. T. P. Rudzyna. 2,648,959, Aug. 18.
Dyeing of nylon and acetate silk in situ with ice colors. C. Streck. 2,649,353, Aug. 18.
Egg feeding mechanism. C. K. Powell. 2,649,186, Aug. 18.
Electric motor. C. C. Hutchins. 2,649,561, Aug. 18.
Electrical potential comparing circuit. D. H. Ransom. 2,649,357, Aug. 18.
Electric switch. R. P. Ballou. 2,649,514, Aug. 18.
Electric switch. W. A. Streuer and E. J. Mastney. 2,649,512, Aug. 18.
Electrical apparatus, Liquid resistance. N. R. Benchemoul. 2,649,526, Aug. 18.
Electrical low pressure flat tire indicator. B. B. Brown. 2,649,519, Aug. 18.
Electrical switch. R. J. Harts. 2,649,520, Aug. 18.
Electrodeposition of selenium. M. C. Bloom and J. P. Levy. 2,649,410, Aug. 18.
Electrodeposition of selenium. A. von Hippel and M. C. Bloom. 2,649,409, Aug. 18.
Electrolytic cell, Mercury cathode. H. Shaw, A. Thompson, and T. I. J. Toler. 2,649,411, Aug. 18.
Electrooptical system. W. P. Mason. 2,649,027, Aug. 18.
Embroidery machine and coded-tape control means. L. Casper. 2,649,065, Aug. 18.
End-attaching device. E. F. Prestinari and J. F. Sand. 2,648,886, Aug. 18.
Engine: *See*—
Gas expansion engine.
Rotary expansion engine.
Supercharging four-stroke internal-combustion engine.
Engine apparatus designed to burn wet pulverized fuel, Gas turbine. E. F. Miller. 2,648,950, Aug. 18.
Engine controller. H. Carson and C. L. Muzzey. 2,649,161, Aug. 18.
Engine cooling system utilizing waste heat. L. C. Harbert and W. G. Corey. 2,649,082, Aug. 18.
Eraser, Blackboard. E. N. Darling. 2,648,863, Aug. 18.
Evaporator. W. R. Williamson and J. P. Tyskewicz. 2,649,408, Aug. 18.
Explosive package. C. O. Davis. 2,649,046, Aug. 18.
Eyeshade, Antiglare. C. V. W. Brown. 2,648,844, Aug. 18.
Fabric: *See*—
Puckered fabric.
Fairing for high-speed devices. G. Darrieus. 2,649,266, Aug. 18.
Faller bar. G. L. Kluter. 2,648,873, Aug. 18.
Fastener: *See*—
Tire chain fastener.
Fatigue tester with mean position controller. T. R. Brennick. 2,648,978, Aug. 18.
Feedback applied to magnetic recording, Negative. M. L. Gayford and W. D. Cragg. 2,649,506, Aug. 18.
Feed means for rotary printing machines, Web. J. Dungler. 2,649,044, Aug. 18.
Feed system, Fuel. G. R. Ericson. 2,649,051, Aug. 18.
Fertilizer elements, Packaged. L. W. Arny and H. W. Stevens. 2,649,196, Aug. 18.
Fiber felts, Air-laying. A. M. Crewson. 2,649,394, Aug. 18.
Fibrous material, Optically bleached. J. D. Kendall and D. J. Fry. 2,649,385, Aug. 18.
Film, Antistatic photographic. W. S. Richardson. 2,649,374, Aug. 18.
Filter: *See*—
Speed filter.
Filter manufacture. F. W. Maurer and J. B. Hirschmann. 2,649,395, Aug. 18.
Fire control mechanism. A. F. Gaidos. 2,649,031, Aug. 18.
Fire converter for semiautomatic firearms, Selective. A. F. Gaidos. 2,649,030, Aug. 18.
Fish and crab hook. C. W. Berry. 2,648,927, Aug. 18.
Fishing device. S. W. Sam. 2,648,928, Aug. 18.
Fishing reel. C. D. Shelburne. 2,649,258, Aug. 18.
Fishing reel: C. D. Shelburne. 2,649,257, Aug. 18.
5-nitro-2-thiophenecarboxaldehyde oxime. E. C. Hermann. 2,649,401, Aug. 18.
Flexible coupling. K. Schlotmann. 2,648,958, Aug. 18.
Flight control system. J. M. Slater and W. Wrigley. 2,649,264, Aug. 18.
Flowmeter. W. M. Drake, Jr. 2,648,981, Aug. 18.
Fluid mixing and spraying, Method and apparatus for. R. J. Miller. 2,649,333, Aug. 18.
Fluid motor. P. H. Taylor. 2,648,949, Aug. 18.
Fluid pressure operator for roll-over scrapers. C. H. Brown. 2,648,921, Aug. 18.
Fluid-shielded dynamoelectric device for immersed pumps and the like. R. F. and A. H. Pezzillo and G. C. Tatem. 2,649,048-9, Aug. 18.
Foldable cabinet. E. D. Backus and J. Siegel. 2,649,350, Aug. 18.
Folding chair. M. D. Rechler. 2,649,138, Aug. 18.
Folding receptacle holder. A. L. Franks. 2,649,270, Aug. 18.
Folding seat. W. E. Housel. 2,649,140, Aug. 18.
Fork attachment for springing bicycle wheels. B. J. Miller. 2,649,312, Aug. 18.
Form for casting elongated concrete building units T shape in cross section. P. N. Youtz. 2,648,889, Aug. 18.
Forming nonreflecting coating on glass. W. F. Parsons and J. N. Little. 2,649,387, Aug. 18.

Forming seal in synthetic plastic packages. J. M. Marshall. 2,649,392, Aug. 18.
4-amino-5-benzylpyrimidine compounds. A. S. Goldberg. 2,649,448, Aug. 18.
4-chloro-2,5-dialkoxyanilines, Preparation of. A. Bloom. 2,649,482, Aug. 18.
Four component apochromatic copying objective. F. E. Altman. 2,649,026, Aug. 18.
Friction clutch. L. D. Stripling. 2,649,175, Aug. 18.
Friction shock absorbing mechanism for railway draft riggings. W. E. Withall. 2,649,212–13, Aug. 18.
Friction vibration damping means for floor polishers. J. van der Heem. 2,648,856, Aug. 18.
Fuel supply system. J. C. Balsch. 2,649,084, Aug. 18.
Function generator. P. Olass. 2,649,542, Aug. 18.
Fungicidal compositions and method of fungus control comprising hydrocarbyl-substituted pyrimidines. S. A. Ballard. 2,649,397, Aug. 18.
Furnaces, Carbon black. E. B. Miller. 2,649,360, Aug. 18.
Furniture, Collapsible. O. B. Marshall and B. F. Adams. 2,649,141, Aug. 18.
Furniture, Combination article of. N. Goodrich. 2,649,349, Aug. 18.
Furniture shock mount construction. C. Eames. 2,649,136, Aug. 18.
Fused electric connector. M. J. Marcus. 2,649,522, Aug. 18.
Garment covering device with motor-driven bag carrier. R. P. Ingraham. 2,649,233, Aug. 18.
Garment hanger. G. Sutter. 2,649,229, Aug. 18.
Gas expansion engine. F. G. Kelly. 2,649,078, Aug. 18.
Gas sampling and recording analyses and temperatures, Method and apparatus for. A. Bur. 2,648,976, Aug. 18.
Gas tank lock. E. Price. 2,648,970, Aug. 18.
Gatherer for forage harvesters. O. E. Hintz. 2,648,941, Aug. 18.
Gauge. J. E. Giambiasi. 2,648,911, Aug. 18.
Gear: *See*—
  Oyster dredge hoist gear.
  Planetary speed-reducing and reversing gear.
Generator: *See*—
  Function generator.
Generator and superheat-reheat control means therefor, Steam. J. Van Brunt. 2,649,079, Aug. 18.
Glass bulb feed, Automatic. J. J. Kirby and M. E. McGowan. 2,649,214, Aug. 18.
Goggles. J. B. Hirschmann. 2,648,843, Aug. 18.
Grain unloader, Boxcar. G. F. Schmidt. 2,649,189, Aug. 18.
Grease compacter. A. Stabler. 2,649,165, Aug. 18.
Grinder, Pneumatic. J. F. Zelik, F. A. Jennings, and F. A. High. 2,648,939, Aug. 18.
Grinding apparatus, Valve seat. P. Weynand. 2,648,938, Aug. 18.
Grinding machine, Blank. L. Hajek. 2,648,936, Aug. 18.
Guard for beds, Side. R. E. Warren. 2,648,850, Aug. 18.
Hair curler. M. Chernack. 2,649,097, Aug. 18.
Hair cutter. J. Petersen. 2,648,902, Aug. 18.
Hand flashlight having improved means for mounting the light bulb. A. H. Moore. 2,649,534, Aug. 18.
Handling apparatus for spaghetti and the like. A. Borrelli. 2,649,055, Aug. 18.
Handling articles, Method and apparatus for. J. L. Ferguson and R. C. Talbot. 2,649,232, Aug. 18.
Handling polymeric compositions. H. A. Bruson. 2,649,356, Aug. 18.
Hanger: *See*—
  Bobbin hanger.  Garment hanger.
Harness for automobiles, Safety. L. O. McCarthy. 2,649,145, Aug. 18.
Harness, Ski. A. C. Hilding. 2,649,306, Aug. 18.
Harvester and loader, Sugar cane. R. E. Shafer, J. E. and V. Cary. 2,648,943, Aug. 18.
Haystacker, Portable. J. Harrington. 2,648,945, Aug. 18.
Headgate form. L. F. Walton. 2,648,888, Aug. 18.
Head mount for binoculars, Contractible. H. K. Hartline, A. J. Rawson, and V. A. Legallais. 2,649,019, Aug. 18.
Headrest appliance. L. New. 2,649,142, Aug. 18.
Heat-treating material to be welded together, Means for and process of. H. B. Smith and G. A. Dolan. 2,649,529, Aug. 18.
Heater for bushing for fiber glass manufacture, Immersion. M. W. Phillips. 2,649,487, Aug. 18.
Heating system, Radiant. J. J. Dietz. 2,649,530, Aug. 18.
Heel tread, Detachable. W. J. Herald and R. Murray. 2,648,917, Aug. 18.
Height-adjustable table. A. L. Hubbard. 2,649,345, Aug. 18.
Hem-folding attachment. N. Knaus and A. G. Millington. 2,649,006, Aug. 18.
High-temperature expansion joint. P. G. Ipsen. 2,649,315, Aug. 18.
Hinge construction for laminated plywood cupboards and doors, Offset. D. R. Wilhelmi. 2,648,870, Aug. 18.
Hinged finish molding. D. H. Bratton and J. H. Wernig. 2,649,329, Aug. 18.
Hoist mechanism, Chain. L. E. Rausenberger and D. L. Getz. 2,649,280, Aug. 18.
Hoisting and stretching apparatus. L. V. Mallory. 2,648,985, Aug. 18.
Holder: *See*—
  Curtain rod holder.
  Folding receptacle holder.  Paper form holder.
Hole burring tool. F. Fennell. 2,649,001, Aug. 18.
Hook: *See*—
  Drag hook.  Fish and crab hook.
Horizontal boring, drilling, and milling machine. H. N. Stephan. 2,648,999, Aug. 18.
Hut, Baby. F. R. McDonough. 2,649,102, Aug. 18.
Hydrant, Yard. N. M. Anderson. 2,649,111, Aug. 18.
Hydraulic control means. C. E. Adams and E. H. Born. 2,649,106, Aug. 18.
Hydraulically operated paper cutter. J. Adrian. 2,649,154, Aug. 18.
Hydrocarbon synthesis process and the production of synthesis gas. M. Benedict, A. C. Faatz, Jr., and H. N. Woebcke. 2,649,468, Aug. 18.
Hygienic packing for dressings and the like. J. Werman. 2,649,199, Aug. 18.
Hypotensive agent from veratrum viride, Preparation of a. W. L. Glen, G. S. Myers, and G. Papineau-Couture. 2,649,442, Aug. 18.
Ice maker. J. L. Fletcher and S. C. Osborne. 2,648,956, Aug. 18.
Ignition and control mechanism for gas burners, Automatic. C. M. Mayer and S. T. Craig. 2,649,152, Aug. 18.
Ignition system for internal-combustion engines, Electric. J. R. Harkness. 2,649,488, Aug. 18.
Improving fastness properties of direct dyestuffs. H. M. Henmi and P. Trefzer. 2,649,354, Aug. 18.
Indicator: *See*—
  Electrical low pressure flat tire indicator.  Radiation indicator.
Indium-bismuth-lead alloy. A. A. Smith, Jr. and J. L. Everhart. 2,649,369–70, Aug. 18.
Indium-bismuth-tin alloy. A. A. Smith, Jr. and J. L. Everhart. 2,649,368, Aug. 18.
Ink, Stabilized stencil. H. W. Hempel and F. P. Calabrese. 2,649,381, Aug. 18.
Inserted tooth rock drill. O. A. Letts. 2,649,284, Aug. 18.
Inspecting apparatus. W. J. Fedorchak. 2,649,500, Aug. 18.
Instrument for measuring speed of shafts, and the like. J. N. Corry. 2,649,010, Aug. 18.
Insulating panels, door panels, furniture board or the like, Production of. W. Prase. 2,649,135, Aug. 18.
Ironing board and bench, Combination. J. F. Roberts. 2,649,137, Aug. 18.
Irrigation ditch demosser and cleaner. Z. W. Merkley and W. Nichols. 2,648,940, Aug. 18.
Jack unit for electric circuits, Portable. J. L. Michaelis. 2,649,510, Aug. 18.
Joint: *See*—
  High-temperature expansion joint.  Self-draining pipe joint.
Knife wiper and range cleaner, Combination. J. C. Paull. 2,648,858, Aug. 18.
Knitted ware and producing same. H. H. Holmes. 2,648,963, Aug. 18.
Label structure. E. B. Brewster. 2,648,924, Aug. 18.
Laryngoscope and angularly adjustable and detachable joint therefor, Folding. W. N. Allyn, C. S. Cook, H. A. Browne, F. M. Scott, and J. M. Carroll. 2,649,087, Aug. 18.
Latch: *See*—
  Door latch.
Latching mechanism, Flush door. G. Mack. 2,649,322, Aug. 18.
Launching system and apparatus for target aircraft, Rotary. B. Bayuk. 2,649,263, Aug. 18.
Layout device for machine tools. K. L. Bice. 2,649,000, Aug. 18.
Leather, Manufacture of. T. White and J. R. Barnes. 2,649,355, Aug. 18.
Lens and shutter combination mounting. L. Goldhamer. 2,649,024, Aug. 18.
Lens assembly, Wide-angle photographic objective. P. Augénieux. 2,649,022, Aug. 18.
Lever tumbler cylinder lock. R. C. Spain. 2,648,973, Aug. 18.
Lifting mechanism, Window. J. M. Launder. 2,649,300, Aug. 18.
Lighter, cigarette holder, and ash tray, Combination. A. Stevenson. 2,649,995, Aug. 18.
Lighting fixture with adjustable spotlight, Recessed. A. H. Feder. 2,649,535, Aug. 18.
Link, Adjustable. F. D. Sawyer. 2,648,997, Aug. 18.
Liquid level indicating apparatus. R. J. Condon. 2,648,982, Aug. 18.
Loading apparatus. E. J. Mertes. 2,649,217, Aug. 18.
Lock: *See*—
  Gas tank lock.  Push key operated hasp lock.
  Lever tumbler cylinder lock.  Vehicle door lock.
Lock mechanism, Reversible tubular. F. K. Heyer. 2,649,325, Aug. 18.
Lock with alarm, Till. M. Rotman. 2,649,070, Aug. 18.
Lock with freely rotating key plug, Tumbler. R. H. Diesel. 2,648,972, Aug. 18.
Locking device. N. O. Holmsten. 2,648,968, Aug. 18.
Locking device. M. Jones. 2,648,971, Aug. 18.
Locking device for track switches or the like. H. R. Smith. 2,649,537, Aug. 18.





Locking device for window latches. N. G. Holmsten. 2,648,967, Aug. 18.
Locking Mechanism, Door. J. Miller and A. Deutscher. 2,648,969, Aug. 18.
Loom picking motion. B. Heath. 2,649,118, Aug. 18.
Lubricating oil containing a monoester of a thiodiacetic acid. F. P. Richter and E. W. Fuller. 2,649,416, Aug. 18.
Lubricating system, Pressure. P. Skillman. 2,649,318, Aug. 18.
Machine and method for producing continuous honeycomb structures. J. D. Lincoln. 2,649,131, Aug. 18.
Machine for binding books. M. H. November. 2,649,120, Aug. 18.
Machine for cutting and loading corn and like crops. D. A. and A. G. Grant. 2,648,942, Aug. 18.
Machine for feeding fittings. A. W. Payne. 2,649,178, Aug. 18.
Machine for racking channellike devices. L. H. Morin. 2,649,200, Aug. 18.
Machine for recording time on and storing coin carriers. C. A. Frick. 2,649,352, Aug. 18.
Machine for straightening metal drums. E. A. Schlank. 2,649,129, Aug. 18.
Magnetic mixer. J. H. Hammond, Jr. 2,649,288, Aug. 18.
Magnetic pilot valve. R. A. Wittmann. 2,649,114, Aug. 18.
Magnetic switch. H. E. Cobb and W. C. Furnas. 2,649,521, Aug. 18.
Magnetometer. E. P. Felch, Jr., and F. G. Merrill. 2,649,568, Aug. 18.
Magnetron strapping arrangement. C. V. Litton. 2,649,556, Aug. 18.
Maleic acid, Manufacture of. D. I. H. Jacobs, D. J. Hadley, and R. Heap. 2,649,477, Aug. 18.
Manipulating on mill tables. E. C. Peterson. 2,649,003, Aug. 18.
Material collecting vehicle. C. R. Golinick. 2,649,216, Aug. 18.
Maturing of crops. R. N. Raynor and D. Stewart. 2,649,364–5, Aug. 18.
Means to facilitate the laying of masonry units. P. H. Sommers. 2,648,974, Aug. 18.
Measuring device, Dressmaker's. M. C. Nicholson. 2,648,907, Aug. 18.
Measuring instrument for cylindrical articles, Circumference. H. K. MacKenzie. 2,648,913, Aug. 18.
Measuring the cross sectional area of boreholes. E. R. Atkins, Jr. 2,649,163, Aug. 18.
Measuring unit for work in lathes and screw machines, Length. C. M. Zajdel. 2,648,909, Aug. 18.
Mechanical movement. A. B. Hulse. 2,648,903, Aug. 18.
Mechanism for making wire reinforced fabric spring liners or the like. N. E. Shockey and H. W. Wilkins. 2,648,842, Aug. 18.
Melamine, Producing. R. A. Yingee. 2,649,446, Aug. 18.
Metal chair. R. S. Sanford. 2,649,147, Aug. 18.
Metal doors. E. S. Persson. 2,649,171, Aug. 18.
Methine dyes, Preparing. W. W. Williams and A. F. Strobel. 2,649,471, Aug. 18.
Method and device for producing high-pressure tubes of hardening materials as cement. K. Just. 2,649,133, Aug. 18.
Method and machine for producing unwoven fabrics. J. Phillips and V. L. Payne. 2,648,876, Aug. 18.
Methyl acetylene, Production of. A. W. C. Taylor, D. G. Jones, and M. L. Allan. 2,649,485, Aug. 18.
Methyl acrylate, Manufacture of. F. J. Bellringer, T. Bewley, R. C. Snell, and K. H. W. Truck. 2,649,475, Aug. 18.
Microwave detector. J. F. Zaleski. 2,649,544, Aug. 18.
Microwave hollow guide power divider. J. F. Zaleski. 2,649,575, Aug. 18.
Mirror, Rearview. J. G. Lenta. 2,649,028, Aug. 18.
Mixed lower trialkanolamines. M. E. Huscher, M. W. Long, Jr., and J. C. Moore. 2,649,483, Aug. 18.
Mixer: *See*—
  Magnetic mixer.
Moldboard adjustment for V-type ditching machines. C. H. Brown. 2,648,919, Aug. 18.
Molybdenum disulfide containing hydrogenation catalyst. H. L. Johnson and A. P. Stuart. 2,649,419, Aug. 18.
Monogram. W. Nussbaum. 2,648,923, Aug. 18.
Mop, Collapsible. O. A. Flagstad. 2,648,859, Aug. 18.
Motor: *See*—
  Electric motor.
  Fluid motor.  Oscillatory motor.
Motor control device, Pressure-starting. K. D. Burrell and R. C. Latson. 2,649,552, Aug. 18.
Motor operated cutter. J. C. Brooks and R. T. Gardner. 2,648,904, Aug. 18.
Motor system for controlling pressure. R. R. Blair. 2,649,560, Aug. 18.
Mounting: *See*—
  Spindle mounting.  Tripod mounting.
Mounting device. R. A. Gosselin. 2,649,271, Aug. 18.
Mounting head for coil terminals. E. E. Franz. 2,649,558, Aug. 18.
Musical instrument. W. J. Anderson. 2,649,007, Aug. 18.
Musical instrument. S. Heytow and R. H. Peterson. 2,649,906, Aug. 18.
Nail gun. M. B. Smith, E. C. Wallace, and E. L. Krieg. 2,648,841, Aug. 18.
Necktie, Preformed. A. J. Titone. 2,648,846, Aug. 18.
Nitro-amino-hydroxybenzene-sulfonic acid amides, Manufacture of. C. Zickendraht. 2,649,479, Aug. 18.
Novelty cap. J. T. Crowder. 2,648,847, Aug. 18.
Nozzle for fuel servicing system for aircraft. D. Samiran. 2,649,109, Aug. 18.
Olefin oxides, Preparation of. J. F. Skelly. 2,649,463, Aug. 18.
Olefinic hydrocarbons and recycle acid catalyst for absorption prior to alkylation, Preparing. D. H. Putney. 2,649,480, Aug. 18.
1,4-dialkyl-2-ketopiperazines, Preparation of. J. S. Strong, W. E. Craig, and V. T. Elkind. 2,649,450, Aug. 18.
Opener, Cabinet model can. W. E. Moore. 2,649,347, Aug. 18.
Opener, Can. R. E. McLean. 2,648,897, Aug. 18.
Opener-handle combination, Can. G. W. Anderson. 2,648,900, Aug. 18.
Operation procedure for gas lifts. W. W. Weinrich. 2,649,340, Aug. 18.
Optical objective of variable focal length. G. H. Cook. 2,649,025, Aug. 18.
Organic sulfates, Preparation of. R. F. Neighbors. 2,649,460, Aug. 18.
Oscillator, Self-pulsing. A. A. Varela. 2,649,546, Aug. 18.
Oscillatory motor. J. S. Yarrow. 2,649,551, Aug. 18.
Oyster dredge hoist gear. A. Mazzella. 2,648,918, Aug. 18.
Packaging device, Shirt. W. W. McFall. 2,649,228, Aug. 18.
Pad for stud driving tools, Safety. R. Farnsworth, V. R. Erickson, and C. R. Webber. 2,648,840, Aug. 18.
Pail, Twin. G. W. Todd. 2,649,223, Aug. 18.
Panel, Architectural. F. E. Allen. 2,649,172, Aug. 18.
Paper and making same, Coated. P. A. Snowman, Jr. 2,649,386, Aug. 18.
Paper form holder. G. C. Wilson. 2,649,208, Aug. 18.
Paper measuring and delivery mechanism for coil winding machines. F. P. Bohne. 2,649,252, Aug. 18.
Paper printing foils for lithographic purposes and preparing them. W. Neugebauer, J. Barthenheier, and A. Rebenstock. 2,649,373, Aug. 18.
Paris holder and work-positioning apparatus, Adjustable. H. L. Krumm. 2,648,896, Aug. 18.
Pen construction. R. L. Burchett. 2,649,074, Aug. 18.
Pen of the pump type, Fountain. E. B. Blockert and A. Marino. 2,649,075, Aug. 18.
Penicillin salts of n-methyl-(1,2-di-p-methoxyphenyl-2-hydroxyethyl) amine. V. V. Young. 2,649,443, Aug. 18.
Phenol ether resins. L. H. Bock and L. J. Carlson. 2,649,436, Aug. 18.
Phenolic ester resins. D. Aelony. 2,649,422, Aug. 18.
Phosphorus-containing organic compounds. G. S. Hartley and D. W. Pound. 2,649,464, Aug. 18.
Photocomposing mechanism. R. W. Wirtz. 2,649,036, Aug. 18.
Photographic element, Light-sensitive. H. I. Davis. 2,649,375, Aug. 18.
Photographic light comparator for determining diaphragm adjustment. H. D. McCarty. 2,649,017, Aug. 18.
Photographic objective, Large aperture. P. Angénieux. 2,649,021, Aug. 18.
Photographic objective, Modified Gauss-type four-component. A. W. Tronnier. 2,649,023, Aug. 18.
Picture and sound synchronizing method and system. J. B. Fairbanks. 2,649,016, Aug. 18.
Pigmented organic plastics and preparing the same. V. C. Vesce. 2,649,382, Aug. 18.
Pipe line fitting. L. S. Hamer. 2,649,117, Aug. 18.
Pipe union, Quick detachable swivel. V. C. H. Richardson. 2,649,314, Aug. 18.
Pipe wiper. B. H. Barnes. 2,648,862, Aug. 18.
Piston assembly for oscillatory hydraulic actuators. J. A. Mehm. 2,649,077, Aug. 18.
Piston ring. W. L. Unger. 2,649,344, Aug. 18.
Planetary speed-reducing and reversing gear. W. G. Stoecklicht. 2,648,998, Aug. 18.
Plastic condensable alkyl acrylate polymers and subsequent elasto-condensation thereof, Preparation of. H. P. Brown. 2,649,439, Aug. 18.
Platform for traffic direction, Adjustable. C. W. Stepler. 2,649,341, Aug. 18.
Platform laying and platform cover turning machine. J. T. Lancaster. 2,648,852, Aug. 18.
Polarity reversal device for electrostatic machines. R. Morel. 2,649,566, Aug. 18.
Polymerization of acrylonitrile in presence of formylated polyvinyl alcohol. T. E. Stanin and J. B. Dickey. 2,649,435, Aug. 18.
Polymerization of acrylonitrile in the presence of preformed polymers. H. W. Coover, Jr. and J. B. Dickey. 2,649,434, Aug. 18.
Portable spray pump. F. W. Funke. 2,649,335, Aug. 18.
Power-assisted and mechanical braking systems for vehicles, Combined. F. H. Holman, Jr. 2,649,169, Aug. 18.
Power-driven diverter attachment for conveyers. I. S. Eggleston. 2,649,187, Aug. 18.
Power exhauster. H. and H. G. Knutson. 2,649,040, Aug. 18.
Preparing outersoles, Automatically. D. and N. H. Midgley. 2,648,855, Aug. 18.
Preserving pimento. E. Traisman and C. R. Price. 2,649,378, Aug. 18.

Pressure actuated throttle valve. S. G. Best and D. R. Pearl. 2,649,108, Aug. 18.
Pressure-responsive mechanism. C. E. Deardorff. 2,649,115, Aug. 18.
Pressure selector valve. F. G. Cizek. 2,649,113, Aug. 18.
Primer. M. S. Silverstein. 2,649,047, Aug. 18.
Printing device, Gummed tape. T. Finizie and J. J. Connolly. 2,649,045, Aug. 18.
Producing a bonded structure. R. K. Witt, W. G. Carson, and B. L. Raskin. 2,649,396, Aug. 18.
Profile method of making steel. J. F. Jordan. 2,649,366, Aug. 18.
Protective cover. L. T. Dixon. 2,648,932, Aug. 18.
Protector: *See*—
Arm watch protector.
Pseudohybrid microwave device. W. D. Lewis. 2,649,576, Aug. 18.
Puckered fabric. R. S. Nogler and S. D. Menzies. 2,649,062, Aug. 18.
Pulse selection. R. Trachtenberg. 2,649,543, Aug. 18.
Pump: *See*—
Centrifugal pump. Portable spray pump.
Pump and motor hydraulic transmission, Rotary. D. E. Dasher. 2,648,952, Aug. 18.
Pump drive. M. W. Guyer. 2,648,986, Aug. 18.
Pump or motor, Rotary. F. M. Weyer. 2,649,032, Aug. 18.
Push chair. D. Sebel. 2,649,310, Aug. 18.
Push key operated hasp lock. B. Polák. 2,648,966, Aug. 18.
Radar system, Single scope two-coordinate. H. G. Tasker, A. L. Hilebert, A. L. Kelsey, and W. E. Osborne. 2,649,581, Aug. 18.
Radiation indicator. N. Anton. 2,649,554, Aug. 18.
Radio frequency ignition system analyzer and interference locator. R. A. Gaetani and E. C. Veatal, Jr. 2,649,567, Aug. 18.
Radiograph marking apparatus. G. L. Lott. 2,649,547, Aug. 18.
Radiographic clinometer. I. M. Greenberg. 2,649,548, Aug. 18.
Rake, Hay. C. L. Kelly. 2,648,946, Aug. 18.
Receptacle: *See*—
Collapsible ballot receptacle. Smoker's ash receptacle.
Reciprocating power tool. A. A. Miller. 2,648,892, Aug. 18.
Recording and indicating apparatus, Graphical. E. Dalby. 2,648,915, Aug. 18.
Recovery of dialkyl amides from polyacrylonitrile spinning baths. J. R. Caldwell. 2,649,481, Aug. 18.
Recovery of oxytetracycline. P. P. Regna, R. A. Carboni, and A. E. Timreck. 2,649,480, Aug. 18.
Reel: *See*—
Fishing reel. Spinning and fly reel.
Reel for cable coil, Field. C. J. Beneke. 2,649,260, Aug. 18.
Refining wool fat. H. J. Passino and J. M. Meyers. 2,649,466, Aug. 18.
Refrigeration system, including means for placing steam condensate and weak solution in heat exchange relation, Absorption. A. A. Berestneff. 2,648,957, Aug. 18.
Regulating device, Centrifugally operated. L. Dessert, M. Abel, and G. Rua. 2,649,292, Aug. 18.
Regulation of the growth of undesired vegetation. A. W. Swezey. 2,649,363, Aug. 18.
Remote-control system, Hydraulic. W. A. Stewart. 2,649,173, Aug. 18.
Removal of tar from cuprous chloride catalyst solutions. C. J. Stehman. 2,649,418, Aug. 18.
Resol-alkyd resin product. H. Honel and H. Manzano. 2,649,433, Aug. 18.
Ribbon holding device and the like. C. Gross. 2,649,198, Aug. 18.
Rifle bolt sleeve and safety. R. G. Ackerson. 2,648,926, Aug. 18.
Ring: *See*—
Piston ring.
Roaster, Barbecue. R. F. Wickman. 2,649,042, Aug. 18.
Rocker for infant-carrying devices. G. H. Strom, C. Lichter, and P. Rusinsky. 2,649,167, Aug. 18.
Roller bearing nut. H. G. Henry. 2,648,991, Aug. 18.
Roller structure. W. Ware. 2,649,337, Aug. 18.
Rotary cutter. H. E. Begle and G. F. Gaudreau. 2,648,893, Aug. 18.
Rotary expansion engine. G. E. Mallinckrodt. 2,649,080, Aug. 18.
Rotary machine. N. N. Strätvelt. 2,649,053, Aug. 18.
Rotary steam drier. G. Eugstrom. 2,648,914, Aug. 18.
Rotor construction for fluid machines. E. A. Stalker. 2,649,278, Aug. 18.
Rubber closure for pharmaceutical vials. C. H. Parsons and W. J. Rumpf. 2,649,090, Aug. 18.
Rug handling mechanism. K. C. Jones and L. L. Collins. 2,649,279, Aug. 18.
Rule, Slide. G. R. Stibitz. 2,649,247, Aug. 18.
Sales ticket cartridge. J. C. Condon. 2,649,193, Aug. 18.
Scale. D. A. Meeker and K. C. Allen. 2,649,293, Aug. 18.
Scale, Household. C. T. Walter. 2,649,294, Aug. 18.
Scale, Spring. W. P. Murphy, Jr. 2,649,299, Aug. 18.
Scarf pin-comb set, No-slide. S. M. Perkins. 2,649,098, Aug. 18.
Scoop and grader, Rotary. H. W. Kitchen. 2,648,922, Aug. 18.
Scraper and digging front apron arrangement, Carry-type. W. R. Anderson. 2,648,920, Aug. 18.
Scraper, Shoe. T. B. Wiltse. 2,648,864, Aug. 18.
Seal for food processing equipment, Removable. W. H. Leuze. 2,649,317, Aug. 18.
Seal for laterally adjustable joints, Gasket. G. F. Burger and J. H. Reisner. 2,649,313, Aug. 18.
Seal spacer, Grease. R. R. Beezley. 2,649,316, Aug. 18.
Sealed container. R. C. Ellsworth. 2,649,239, Aug. 18.
Sealing porous formations. J. S. Boyer. 2,649,159, Aug. 18.
Sealing the seating surfaces of valves and similar devices. T. W. Bergquist. 2,649,110, Aug. 18.
Seamless tube drawing tool. D. P. Gremling. 2,649,002, Aug. 18.
Seat: *See*—
Folding seat.
Seat attachment, Child's auxiliary. A. E. Singleton. 2,649,139, Aug. 18.
Sediment cup and drain plug for internal-combustion engines, Combination. J. M. Brier, Jr. 2,649,204, Aug. 18.
Selective one-way drive. S. C. Winger. 2,649,176, Aug. 18.
Self-draining pipe joint. W. H. Stout and E. S. Pearson. 2,649,105, Aug. 18.
Semiconductor magnetoresistive device. G. L. Pearson. 2,649,569, Aug. 18.
Separating organic compounds of high hydrogen content from those of low hydrogen content. B. Braae. 2,649,467, Aug. 18.
Separation of acetone and propionaldehyde by azeotropic distillation with chloroform. J. M. Harrison and A. E. Somers. 2,649,406, Aug. 18.
Separation of ethyl acetate and ethanol by azeotropic distillation with methanol. J. M. Harrison and A. E. Somers. 2,649,407, Aug. 18.
Shaver and hair receiving compartment therefor. I. Jepson. 2,648,898, Aug. 18.
Sheave, Adjustable pitch. T. C. Knudsen. 2,648,988, Aug. 18.
Sheet-feeding and turning apparatus. R. N. Fuller. 2,649,303, Aug. 18.
Sheet handling mechanism for cutting machines. W. R. Spiller. 2,649,155, Aug. 18.
Sheet material, Making. L. H. Hills. 2,649,372, Aug. 18.
Shoe sweeper Metal. S. R. Johnson and C. T. Walter. 2,649,302, Aug. 18.
Shelter, Double-wall portable. C. G. Sults. 2,649,101, Aug. 18.
Ship stabilizer. H. P. Lasseter. 2,649,068, Aug. 18.
Shoe counter production machine. H. Garyatt and D. D. Pettigrew. 2,648,853, Aug. 18.
Shoe with heel. G. Greissinger. 2,648,916, Aug. 18.
Shoes, Manufacture of. A. Otsuka. 2,648,854, Aug. 18.
Short oil modified alkyd resin surface coating materials comprising a polymer of aliphatic esters of alpha, beta unsaturated carboxylic acids. F. R. Spencer. 2,649,423, Aug. 18.
Sign structure. H. R. Owen and R. Brown. 2,648,925, Aug. 18.
Signal communication, Method and apparatus for. R. Adler. 2,649,503, Aug. 18.
Signal reflector for automotive vehicles and the like. E. F. Bacon. 2,649,029, Aug. 18.
Signaling station, Radiant energy. M. B. McDavitt. 2,649,541, Aug. 18.
Signaling system, Electric. R. H. Dunn. 2,649,580, Aug. 18.
Silica filled materials, Manufacture of. J. H. Wills and J. P. Hazel. 2,649,388, Aug. 18.
Silo charging and emptying machine. J. Dickson. 2,649,215, Aug. 18.
Single blank carton with display card cover. H. J. Rossi and A. J. Weiss. 2,649,195, Aug. 18.
Single powder developers containing stabilized alkali hydroxides. A. A. Rasch, R. W. Henn, and J. I. Crabtree. 2,649,376, Aug. 18.
Slack adjuster, Automatic. J. F. Shumaker. 2,649,170, Aug. 18.
Slide container. J. W. Rigney. 2,649,093, Aug. 18.
Sliding shoe curtain support. G. F. and R. French. 2,648,860, Aug. 18.
Slitter or scorer for tubes or sheaths. E. Beyer. 2,648,899, Aug. 18.
Smoker's ash receptacle. D. S. Harwood. 2,649,222, Aug. 18.
Snap-out form separating device. B. A. Stafford. 2,649,156, Aug. 18.
Snatch block. J. E. Fate, Jr. 2,649,282, Aug. 18.
Soap and making same, Plodded high moisture. R. E. Compa. 2,649,417, Aug. 18.
Socket assembly, Snap fastener. W. I. Jones. 2,648,885, Aug. 18.
Soil treating device. C. A. Hawkins and F. H. Zehrbaugh. 2,649,061, Aug. 18.
Soil treating machine. C. A. Hawkins and F. H. Zehrbaugh. 2,649,060, Aug. 18.
Soluble, fusible, convertible unsaturated interpolymers of selected di-2-alkenyl citraconates or mesaconates and selected 2-alkenyl alcohols or chlorides. P. O. Tawney. 2,649,437, Aug. 18.
Soluble vat dyes of the acridone series. W. B. and E. M. Hardy. 2,649,452, Aug. 18.





Soluble vat dyes of the acridone series, Preparation of. E. M. and W. B. Hardy. 2,649,453, Aug. 18.
Solutions of vinylidene cyanide interpolymers in an organic nitrile. H. Gilbert and F. F. Miller. 2,649,426, Aug. 18.
Sorting objects by their weight, Means of. A. Horner. 2,649,201, Aug. 18.
Space intrusion detection system. E. W. Marlowe and P. M. Brannen. 2,649,538, Aug. 18.
Spectacle band. E. R. Wheeler. 2,649,020, Aug. 18.
Speed filter. D. H. Quinn. 2,649,205, Aug. 18.
Spike, Drive. W. R. Selby. 2,649,009, Aug. 18.
Spindle mounting. D. G. Sousloff and A. C. White. 2,648,948, Aug. 18.
Spinning and fly wheel. M. T. Ulrich. 2,649,259, Aug. 18.
Splicing collar, Angle post. T. Sato. 2,649,320, Aug. 18.
Sponge rubber product. S. W. Alderfer. 2,649,391, Aug. 18.
Spout cap. J. L. Lay. 2,649,226, Aug. 18.
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Spring assembly, Leaf. H. T. Dow. 2,649,296–7, Aug. 18.
Springboard, Aluminum. J. M. Ulanovsky. 2,649,304, Aug. 18.
Spring strip for connecting springs into groups. H. Hopkes. 2,648,851, Aug. 18.
Stabilizing and purifying phenylacetaldehyde. D. C. Young. 2,649,462, Aug. 18.
Stabilizing apparatus in aircraft. F. W. Meredith. 2,649,563, Aug. 18.
Stairway, Moving. H. E. Hansen. 2,649,181, Aug. 18.
Steering column brake. W. H. Kemp. 2,648,993, Aug. 18.
Steroid oxidation. W. J. Haines and D. R. Collingsworth. 2,649,401, Aug. 18.
Steroids. H. C. Murray and D. H. Peterson. 2,649,400, Aug. 18.
Steroids. H. C. Murray and D. H. Peterson. 2,649,402, Aug. 18.
Stop motion mechanism for warp knitting machines. T. F. Schwanda. 2,648,962, Aug. 18.
String extractor means for baling apparatus. D. T. and G. Jones. 2,649,043, Aug. 18.
Strip feeding apparatus. A. W. Metzner. 2,649,180, Aug. 18.
Structural members, Prestressing. L. K. Davis. 2,648,895, Aug. 18.
Substituted carbamic acid esters as surface active agents. J. A. Chenicek. 2,649,473, Aug. 18.
Sulfonated hydroarylamino anthraquinones. S. von Allmen and H. Eggenberger. 2,649,465, Aug. 18.
Supercharging four-stroke internal-combustion engine. W. Vogel and H. Seifert. 2,649,083, Aug. 18.
Supply stand for adhesive strip material. J. Skrebba. 2,649,256, Aug. 18.
Support: *See*—
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Support structure, Filamentary cathode. L. E. Clane. 2,649,553, Aug. 18.
Switch. E. G. Gaynor. 2,649,511, Aug. 18.
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Diaphragm actuated electrical switch. Electrical switch.
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Switching system, Pulse time position. D. H. Ransom, W. L. Roberts, and R. H. Taplin. 2,649,505, Aug. 18.
Synthetic substances of the polysaccharide type. M. Stacey and W. G. Overend. 2,649,421, Aug. 18.
Syringe, Hygienic. J. E. Fallon. 2,649,089, Aug. 18.
Table: *See*—
Height-adjustable table.
Table having adjustable top sections. F. Arnold. 2,649,206, Aug. 18.
Tachometer, Electric. P. Wargo. 2,649,559, Aug. 18.
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Tank with strengthened roof, Hydrocarbon storage. R. M. Mercier. 2,649,059, Aug. 18.
Taping machine. A. A. Wagner, A. J. Werner, and J. Tumpak. 2,649,221, Aug. 18.
Teat protector for dairy cattle. R. E. Smith. 2,649,073, Aug. 18.
Telegraph repeater, Electronic subscriber's loop. J. R. Davey. 2,649,504, Aug. 18.
Telephone system, Microwave carrier. S. D. Robertson. 2,649,539, Aug. 18.
Teletypewriter circuit. E. O. Blodgett. 2,649,496, Aug. 18.
Television receiver, Simplified color. A. A. Barco, W. H. Bliss, and M. M. Carpenter, Jr. 2,649,499, Aug. 18.
Television transmitting apparatus. J. E. Cope. 2,649,501, Aug. 18.
Temperature compensation in recording refractometers, Electrical. P. D. Schnelle. 2,649,012, Aug. 18.
Template setup for punch presses, Master. R. L. Weisbeck. 2,649,157, Aug. 18.
Tensioning device, Clearer. J. D. Gibson. 2,648,875, Aug. 18.
Terminal, Movable skyline. J. S. Wilson. 2,649,209, Aug. 18.
Test equipment and method for measuring reflection coefficient. F. E. Radcliffe. 2,649,570, Aug. 18.
Therapy unit, Beam. D. T. Green. 2,649,549, Aug. 18.
Thermocouple. R. D. Turkington. 2,649,489, Aug. 18.
Thermometer for measuring high temperatures, Electrical. A. H. Lamb. 2,648,983, Aug. 18.
Thermostat. H. A. and R. B. Mulvany. 2,649,523, Aug. 18.
Thread break detector, Multifilament-responsive. C. B. Hayes. 2,648,961, Aug. 18.
Thread treating machine. R. B. Newton and O. L. Williamson. 2,649,071, Aug. 18.
Tie case. F. G. Husted. 2,649,190, Aug. 18.
Tile, Mastic. D. W. Moore and A. H. Searl. 2,649,428, Aug. 18.
Tire chain fastener. W. H. Devonshire. 2,648,881, Aug. 18.
Tires, Making pneumatic. W. A. Steinle. 2,649,134, Aug. 18.
Toilet tank. A. J. Wirkus. 2,648,848, Aug. 18.
Toilet tissue cover. P. Smallen. 2,649,255, Aug. 18.
Tong, Spinning and make-up. C. A. Lundeen. 2,649,283, Aug. 18.
Tool: *See*—
Hole burring tool. Seamless tube drawing tool.
Reciprocating power tool.
Tool for cutting metal strap. W. E. Northcutt. 2,648,901, Aug. 18.
Tool for effecting solderless connections between a wire and a terminal. F. Reck. 2,649,121, Aug. 18.
Tool for making joints in lead pipe. J. Lake, Jr. 2,649,127, Aug. 18.
Tool for making wrapped wire connections, Motor-driven hand. R. F. Mallina. 2,649,122, Aug. 18.
Tool kit, Automobile. F. M. McLaughlin. 2,649,191, Aug. 18.
Tool with automatic control valve system, Power-operated. H. P. Dupre. 2,649,076, Aug. 18.
Toy whale, Mechanical. F. K. Nagel. 2,648,935, Aug. 18.
Track and drawer construction, Refrigerator. M. Rothchild. 2,649,351, Aug. 18.
Tractor implement. M. L. Aust. 2,649,039, Aug. 18.
Tractor, Monowheel. M. J. Wooldridge and G. P. Carver. 2,649,162, Aug. 18.
Trailer, Hydraulic elevating and transport. A. A. Timlin. 2,649,218, Aug. 18.
Trailer, Knockdown type two-wheel. K. J. and A. J. Hersey. 2,649,307, Aug. 18.
Transducer testing apparatus. J. R. Cornett. 2,648,979, Aug. 18.
Translating device, Hall-effect wave. W. P. Mason. 2,649,574, Aug. 18.
Transmission. J. G. Vincent. 2,648,992, Aug. 18.
Transmission line tuning device for electronic systems. D. T. Armstrong. 2,649,577, Aug. 18.
Transmission mechanism, Power. T. Hindmarch. 2,648,990, Aug. 18.
Trap: *See*—
Animal trap.
Tray, Beautician's utility. N. M. Stephens. 2,649,144, Aug. 18.
Treating sugar solutions with ion-exchange resins. J. C. Winters and R. Kunin. 2,649,390, Aug. 18.
Treatment of phlebitis, Means for the. K. Sigg. 2,649,088, Aug. 18.
Trialkyl hydroxylamine-sulfur trioxide compounds. W. B. Hardy. 2,649,484, Aug. 18.
Trifluoromethylated diphenyl ether sulfanic acids. H. Martin. 2,649,476, Aug. 18.
Trinod mounting. J. G. Stein. 2,649,268, Aug. 18.
Trolley turnout, Double. W. J. Lewis. 2,649,509, Aug. 18.
Truck, Hand. A. Nielsen. 2,649,219, Aug. 18.
Truck loading. D. E. Rueckert. 2,649,054, Aug. 18.
Tufting machine. P. Durrschmidt. 2,649,064, Aug. 18.
2-cyclohexylamino-4-amino-5-benzylpyrimidine. A. S. Goldberg. 2,649,449, Aug. 18.
2,4-bis(methylsulfonyl)-benzeneazo-n-hydroxyalkyl-n-β-cyanoethylaniline compounds. J. B. Dickey and G. J. Taylor. 2,649,440, Aug. 18.
2-thiocyano-4, 6-diamino-S-triazine, Preparation of. D. W. Kaiser and J. J. Roemer. 2,649,447, Aug. 18.
2-thiohydantoins containing a carboxyaryl group and preparation. L. G. S. Brooker and F. L. White. 2,649,459, Aug. 18.
2-thiono-5-oxazolidones. G. E. Bennett and J. B. Ott. 2,649,458, Aug. 18.
Tying and fastening device. H. W. Patterson. 2,648,879, Aug. 18.
U-link chain for barn cleaners, Demountable. N. Cordis. 2,648,980, Aug. 18.
Ultrasonic wedge, Reflection absorbing. F. H. Hardie, R. C. Goodman, and H. E. Van Valkenburg. 2,649,550, Aug. 18.
Umbrella, Folding. V. Militano. 2,649,103, Aug. 18.
Umbrella, Tiltable. V. Militano. 2,649,104, Aug. 18.
V-belt transmission, Variable-speed. G. W. Curtis. 2,648,987, Aug. 18.
Vacuum applicator, Foot actuated. V. C. Valencia. 2,649,091, Aug. 18.
Valve: *See*—
Automatic reset restriction valve. Pressure actuated throttle valve.
Check valve. Pressure selector valve.
Magnetic pilot valve.

Valve body, Plug. C. B. Johnson. 2,649,274, Aug. 18.

Valve construction, Iris type. R. C. Barbato. 2,649,272, Aug. 18.

Valve for air compressor systems, Control. M. J. Cady. 2,649,241, Aug. 18.

Valve for sound-on-film recording, Crystal light. R. Dressler and A. A. Chesnes. 2,649,507, Aug. 18.

Valve having a resilient sheet metal rotor, Shutoff or selector. H. Noyes. 2,649,275, Aug. 18.

Valve system, Hydraulic. H. W. Avery. 2,649,107, Aug. 18.

Valve with foot actuated control. H. Anderson. 2,649,116, Aug. 18.

Vane assembly for contact column, Detachable. B. Bartolucci. 2,649,291, Aug. 18.

Vehicle: *See*—
Material collecting vehicle.

Vehicle door lock. G. A. Smith. 2,649,321, Aug. 18.

Venetian blind. B. Walker. 2,649,151, Aug. 18.

Venetian blind slats, Making. G. T. Cumming. 2,649,393, Aug. 18.

Vent and filling device for storage batteries. J. R. Martin. 2,649,494, Aug. 18.

Vessel and stopper therefor, Concentrating. K. O. L. Silverstolpe. 2,649,245, Aug. 18.

Vibrator. K. A. S. Karlström. 2,649,286, Aug. 18.

Vibratory device for controlling discharge from a hopper containing a powdered or a small-size granular homogeneous substance. G. Bardet. 2,649,224, Aug. 18.

Volute spring. C. W. Wolff and F. G. Newman. 2,649,298, Aug. 18.

Vulcanization. J. R. Little. 2,649,429–30, Aug. 18.

Vulcanization of synthetic rubber with alkyl dimethylol phenol and formaldehyde. J. R. Little. 2,649,431, Aug. 18.

Vulcanization with alkyl dimethylolphenol and alkanolamine. J. R. Little. 2,649,432, Aug. 18.

Vulcanizing apparatus, Continuous. A. Stiegler. 2,648,872, Aug. 18.

Washer strip and method and apparatus for producing same. O. J. Poupitch. 2,649,125, Aug. 18.

Washing machine. G. C. Graham. 2,648,964, Aug. 18.

Waste grab preventer and lubricating device. E. L. Yelverton. 2,649,343, Aug. 18.

Water heater apparatus. K. L. Woodman. 2,649,532, Aug. 18.

Wave-guide elbow. W. J. Albersheim. 2,649,578, Aug. 18.

Wear take-up mechanism for internal expanding hydraulic brakes, Automatic. J. A. Shipea. 2,649,168, Aug. 18.

Weather seal for automobile bodies with convertible tops, Automatic rear quarter. C. H. Schamel and H. A. Mackie. 2,649,330, Aug. 18.

Weaving shuttle with thread-cutting anvil. W. J. Gosselin. 2,649,119, Aug. 18.

Wedge type wire connector. H. P. Dupre. 2,648,883, Aug. 18.

Welding ends of copper coils. E. H. Koenig and J. Chesnavich. 2,649,528, Aug. 18.

Well packer, Inverted. F. A. Reed. 2,649,158, Aug. 18.

Winch. R. Hastings, Jr. 2,649,281, Aug. 18.

Winder, Coil spring. L. A. Border. 2,649,130, Aug. 18.

Winding machine. C. H. Nordell. 2,649,251, Aug. 18.

Winding yarns, Method of and apparatus for. E. S. Balthrop, Jr. 2,649,254, Aug. 18.

Window, Completely reversible. E. Albano. 2,648,878, Aug. 18.

Window sash operating mechanism. J. W. Signore. 2,649,301, Aug. 18.

Windshield clearing system. A. Rappl. 2,649,332, Aug. 18.

Windshield wiper. H. B. and A. Gordon. 2,648,865, Aug. 18.

Wood product and manufacturing, Pulp. C. U. Gramelspacher. 2,649,034, Aug. 18.

Work support and tire bead centering device, Annular rotary. P. E. Hawkinson. 2,648,937, Aug. 18.


# CLASSIFICATION OF PATENTS

## ISSUED AUGUST 18, 1953

NOTE.—First number = class, second number = subclass, third number = patent number

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## Classification of Designs

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# Condition of Applications Under Examination at Close of Business August 7, 1953

Total number of patent applications awaiting action, 101,200. Date of oldest new application, October 22, 1952; date of oldest amended application, October 17, 1952.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| *(C. E. D.) KEELY, J. E. | 10-28-52 | 11-12-52 | 1413 |
| 1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage. | 11-20-52 | 11-15-52 | 1220 |
| 2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers | 12-15-52 | 12-17-52 | 1893 |
| 3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part). | 11-15-52 | 11-18-52 | 1505 |
| 4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus | 12-1-52 | 11-28-52 | 989 |
| 5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates. | 10-31-52 | 10-23-52 | 2726 |
| 6. SURLE, H., Carbon Chemistry (part) | 11-21-52 | 11-21-52 | 1655 |
| 7. GONSALVES, J. E., Optics; Photography (part) | 12-1-52 | 12-1-52 | 1574 |
| 8. LEWIS, R. O., Beds; Chairs and Seats; Cabinets; Tables; Miscellaneous Furniture | 11-13-52 | 11-12-52 | 1235 |
| 9. BRANSON, J. H., Pumps and Fans; Fluid Motors | 12-15-52 | 12-11-52 | 1314 |
| 10. REYNOLDS, E. R. (NEFF, P. R., Acting); Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles. | 11-20-52 | 11-12-52 | 1171 |
| 11. BENHAM, E. V., Boots, Shoes and Leggings; Shoe and Leather Manufacture; Button, Eyelet and Rivet Setting; Nailing, Stapling and Clip Clenching; Cutlery; Cleaning and Liquid Treatment of Solids. | 11-20-52 | 11-18-52 | 1216 |
| 12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake. | 10-22-52 | 10-17-52 | 1245 |
| 13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair. | 11-29-52 | 11-24-52 | 1491 |
| 14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet Metal; Wire; Bending, Miscellaneous Processes; Assembly and Disassembly Apparatus. | 11-8-52 | 11-6-52 | 1711 |
| 15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass | 11-14-52 | 11-15-52 | 1706 |
| 16. LOVEWELL, N. N., Television; Telephony; Recorders | 11-22-52 | 11-19-52 | 1539 |
| 17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding. | 12-29-52 | 11-19-52 | 731 |
| 18. KURZ, J. A., Power Plants; Speed Responsive Devices | 11-20-52 | 11-12-52 | 1187 |
| 19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces | 12-9-52 | 12-10-52 | 1275 |
| 20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes. | 11-8-52 | 11-8-52 | 1453 |
| 21. MADER, R. C., Textiles | 12-2-52 | 11-26-52 | 1049 |
| 22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows. | 11-12-52 | 11-10-52 | 896 |
| 23. ANDRUS, L. M., Cash Registers; Calculators and Counters; Education | 1-13-53 | 1-7-53 | 1036 |
| 24. DRACOPOULOS, P. T. Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing. | 11-7-52 | 11-7-52 | 1320 |
| 25. NEVIUS, R. D., Classifying Solids; Centrifugal Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation. | 12-8-52 | 12-8-52 | 1903 |
| 26. YOUNG, R. R., Electricity—Generation, Motive Power, Transmission Systems, Voltage and Phase Control Systems; Furnaces, Batteries, Battery Charging and Discharging, Arc Lamps, Resistors and Rheostats, Prime Mover Dynamo Plants; Elevators. | 11-18-52 | 11-18-52 | 1236 |
| 27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making | 12-16-52 | 12-8-52 | 1127 |
| 28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service. | 11-14-52 | 11-8-52 | 1108 |
| 29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus). | 1-21-53 | 1-21-53 | 1321 |
| 30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners. | 11-8-52 | 11-7-52 | 2482 |
| 31. HUTCHINSON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons. | 12-3-52 | 11-20-52 | 1253 |
| 32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-Proportioning Systems. | 11-17-52 | 11-17-52 | 1920 |
| 33. MUSHAKE, W. L., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements. | 11-5-52 | 11-5-52 | 1336 |
| 34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist Line Implements. | 12-29-52 | 12-22-52 | 1174 |
| 35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles | 12-2-52 | 12-3-52 | 1110 |
| 36. McFADYEN, A. D., Measuring and Testing | 12-9-52 | 12-11-52 | 1692 |
| 37. LEVY, M. L., Electricity-Switches, Welding, Heating | 11-28-52 | 11-12-52 | 1543 |
| 38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part). | 1-19-53 | 1-19-53 | 1616 |
| 39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part) | 2-12-53 | 2-6-53 | 986 |
| 40. DRUMMOND, E. J., Receptacles (part); Packages | 12-5-52 | 11-21-52 | 1593 |
| 41. GURLEY, R. B., Coin Controlled Apparatus; Dispensing Cabinets; Coin Handling; Mail, Fare or Other Collection Boxes or Chutes; Buckles, Buttons and Clasps; Racks; Fire Escapes; Ladders; Scaffolds. | | | |

*Commissioner's Examiners' Division.

| PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| 42. MARANS, H., Electric Signaling and Communication (part); Signals and Indicators; Telegraphy (part); Electrical Conductors, Conduits, Insulators and Connectors. | 11-12-52 | 11-14-52 | 2042 |
| 43. KNIGHT, W. G., (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch, Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part). | 11-3-52 | 11-1-52 | 1838 |
| 44. Abolished as of May 25, 1953. See Commissioner's Administrative Order No. 42 (671 O. G. 316). | | | |
| 45. MANIAN, J. A., Wheels, Tires and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances. | 12-2-52 | 11-26-52 | 1377 |
| 46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems. | 11-10-52 | 11-7-52 | 1149 |
| 47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part) | 11-10-52 | 11-10-52 | 1628 |
| 48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting. | 11-7-52 | 11-10-52 | 2096 |
| 49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring | 11-19-52 | 11-19-52 | 1423 |
| 50. BENGEL, W. G., Synthetic Resins; Rubber | 1-28-53 | 1-30-53 | 1657 |
| 51. YAFFEE, S., Radio Signaling; Duplex or Multiplex Radio Stations; Piezoelectric Crystal Devices; Modulators; Music; Acoustics. | 11-26-52 | 11-25-52 | 1644 |
| 52. WHITNEY, F. L., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits. | 12-23-52 | 12-26-52 | 1871 |
| 53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus. | 12-4-52 | 12-12-52 | 1003 |
| 54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits, Ray Energy Applications. | 11-22-52 | 11-24-52 | 1817 |
| 55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet | 12-1-52 | 12-1-52 | 1014 |
| 56. COCKERILL, S., Electrical and Wave Energy Chemistry; Liquid Separation or Purification | 12-19-52 | 12-22-52 | 1317 |
| 57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings. | 12-5-52 | 12-9-52 | 1747 |
| 58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons. | 11-15-52 | 11-8-52 | 1376 |
| 59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating | 12-6-52 | 12-4-52 | 1382 |
| 60. Abolished as of December 15, 1952. See Commissioner's Administrative Order No. 41 (665 O. G. 994). | | | |
| 61. MORSE, E. L., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery. | 12-11-52 | 12-1-52 | 946 |
| 62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors | 12-15-52 | 12-20-52 | 1187 |
| 63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part) | 11-10-52 | 11-12-52 | 1961 |
| 64. GORECKI, G. A., Fuels and Miscellaneous Compositions | 11-17-52 | 11-18-52 | 1774 |
| 65. Abolished as of May 27, 1953. See Commissioner's Administrative Order No. 43 (671 O. O. 316). | | | |
| 66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales | 12-10-52 | 12-6-52 | 793 |
| 67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation; Paper Making. | 12-27-52 | 12-1-52 | 1635 |
| 68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling. | 12-26-52 | 12-26-52 | 1442 |
| 69. GALVIN, D. J., Wave Guides; Amplifiers; Electric Meters; Sound Recording; Illumination | 11-15-52 | 11-15-52 | 1736 |
| 70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers. | 10-25-52 | 10-22-52 | 3479 |
| DESIGNS: A—RREHM, G. L., Industrial Arts | 4-2-53 | 4-10-53 | 997 |
| DESIGNS: B—GRAY, M. A., Household, Personal and Fine Arts | 4-3-53 | 4-20-53 | 925 |

Number of new applications received week ending July 17, 1953

| PATENTS 1,467 | DESIGNS 150 | REISSUES 5 | TOTAL 1,622 |
|---|---|---|---|

Total number of trade-mark applications awaiting action (including renewals and republications), 11,131. Date of oldest new application, March 11, 1953; date of oldest amended application, March 10, 1953.

| TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION | Oldest new application and oldest action by applicant awaiting Office action | | Applications awaiting action |
|---|---|---|---|
| | New | Amended | |
| I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52 | 3-11-53 | 3-10-53 | 2868 |
| II. SUMMERS, O. S., Classes 9, 10, 13, 14, 21, 22, 23, 24, 25, 26, 31, 34, 36 | 3-11-53 | 3-12-53 | 2721 |
| Renewals (All Classes) | 6-5-53 | 7-8-53 | 453 |
| Republications (All Classes) | 6-3-53 | 6-17-53 | 248 |
| III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 42, 43, 45, 47, 48, 49 | 3-23-53 | 4-1-53 | 2449 |
| IV. KEYS, O. M., Classes 2, 11, 16, 19, 22, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107 | 4-1-53 | 3-19-53 | 2392 |

# LIST OF TRADE-MARK APPLICANTS

## PUBLISHED FOR OPPOSITION

Advance Aluminum Castings Corp., Chicago, Ill. Cooking utensils. Serial No. 635,990, Aug. 25. Class 13.

Allen Foods, Inc., St. Louis, Mo. Malt vinegar, steak sauce, Worcestershire sauce, etc. Serial No. 630,743, Aug. 25. Class 46.

Allied Laboratories, Inc., Kansas City, Mo. Veterinary preparation. Serial No. 632,140, Aug. 25. Class 18.

Allied Van Lines, Inc., Broadview, Ill. Storage and packing of household goods and for the transportation of household goods by motor vehicle. Serial No. 638,626, Aug. 25. Class 105.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Machinery—namely, gyratory crushers, etc. Serial No. 612,231, Aug. 25. Class 23.

American Brake Shoe Company, New York, N. Y. Forgings. Serial No. 643,261, Aug. 25. Class 14.

American Hospital Association, Chicago, Ill. Quarterly magazine. Serial No. 632,064, Aug. 25. Class 38.

American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Metallic abrasive particles. Serial No. 620,927, Aug. 25. Class 4.

Amplifier Corporation of America, New York, N. Y. Magnetic sound recording and playback apparatus and parts thereof. Serial No. 641,421, Aug. 25. Class 21.

Anchor Hocking Glass Corporation, Lancaster, Ohio. Closure caps. Serial No. 595,584, Aug. 25. Class 50.

Ansul Chemical Company, Marinette, Wis. Cleaning solvent. Serial No. 639,605, Aug. 25. Class 52.

Arkwright Merchandising Corporation, New York, N. Y. Infants' crib pads, crib sheets, and crib blankets. Serial No. 628,994, Aug. 25. Class 42.

Armour and Company, Chicago, Ill. Canned foods. Serial No. 575,798, Aug. 25. Class 46.

Ashley, Joyce D., Macksville, Kans. Canned fish bait. Serial No. 644,382 Aug. 25. Class 22.

Associated Brands, Inc. Brooklyn, N. Y. Hair shampoo. Serial Nos. 635,213–14, Aug. 25. Class 52.

Atkins Plastic Products Co., New York, N. Y. Medicine cabinets. Serial No. 641,263, Aug. 25. Class 32.

Audak Company, Inc., The, New York, N. Y. Electronic sound recording, amplifying, playing, and play-back apparatus, etc. Serial No. 632,864, Aug. 25. Class 21.

Automatic Totalisators Limited, Meadowbank, Sydney, New South Wales, Australia. Machines for registering and indicating the number and nature of bets. Serial No. 629,083, Aug. 25. Class 26.

Babson Bros. Co., Chicago, Ill. Vacuum operated clippers. Serial No. 642,256, Aug. 25. Class 23.

Baby Scope Company, Inc., The, Los Angeles, Calif. Combination child's high chair and walker. Serial No. 641,508, Aug. 25. Class 32.

Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung"), Ludwigshafen (Rhine), Germany. Polymeric vinyl compounds. Serial No. 634,395, Aug. 25. Class 6.

Balfour, Guthrie & Co., Limited, San Francisco, Calif. Canned fruits; canned vegetables; fresh citrus fruits, etc. Serial No. 625,883, Aug. 25. Class 46.

Baucroft, Joseph, & Sons Co., Wilmington, Del. Fabrics. Serial No. 644,889, Aug. 25. Class 42.

Barkin, Levin & Co. Inc., New York, N. Y. Ladies' and misses' coats. Serial No. 636,195–6, Aug. 25. Class 39.

Barry, R. G., Corporation, Columbus, Ohio. Platform slippers. Serial No. 620,775, Aug. 25. Class 39.

Bastian-Blessing Company, The, Chicago, Ill. Equipment for welding, cutting, brazing, etc. Serial No. 590,484, Aug. 25. Class 34.

Bates, C. J., & Son, Chester, Conn. Manicure articles. Serial No. 583,312, Aug. 25. Class 44.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial No. 644,956, Aug. 25. Class 42.

Better Brushes, Incorporated, Palmer, Mass. Bath oil, liquid skin balm, and cream deodorant. Serial No. 630,412, Aug. 25. Class 51.

Binita Gift Wares, Chicago, Ill. Decorative artificial fruits. Serial No. 625,956, Aug. 25. Class 50.

Birma Products Corporation, Buffalo, N. Y. Gaskets and packing material. Serial No. 638,397, Aug. 25. Class 35.

Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Felt base, linoleum, composition, and plastic floor coverings and rugs. Serial No. 640,430, Aug. 25. Class 20.

Borg, George W., Corporation, The, Delavan, Wis. Dials for rotor parts of electrical apparatus. Serial No. 629,315, Aug. 25. Class 21.

Bouthillet-Gray Laboratories, Inc., St. Paul, Minn. Fresh eggs. Serial No. 626,190, Aug. 25. Class 46.

Brearley Company, The, Rockford, Ill. Weighing scales. Serial No. 631,846, Aug. 25. Class 26.

Breneman-Hartshorn Inc., Cincinnati, Ohio. Window shades. Serial No. 640,601, Aug. 25. Class 32.

Brevitt Shoes Limited, Leicester, England. Boots, shoes, and slippers. Serial No. 619,488, Aug. 25. Class 39.

Broadbent-Johnston, Inc., El Monte, Calif. Centrifugal pumps, and portable coolant tank pump units, etc. Serial No. 616,078, Aug. 25. Class 23.

Bulova Watch Company, Inc., New York, N. Y. Electrically sensitive speaker apparatus. Serial No. 632,656, Aug. 25. Class 21.

Burlington Mills Corporation, Greensboro, N. C. Fabrics. Serial No. 645,535, Aug. 25. Class 42.

Callahan Zinc-Lead Company, Inc., Amesbury, Mass. Wire reinforced fabric hose. Serial No. 642,941, Aug. 25. Class 35.

Car-Freshner Co.: *See*—
Saman, Jules.

Car Parts Depot, Inc., El Paso, Tex. Automotive equipment. Serial No. 641,013, Aug. 25. Class 23.

Chicago Dietetic Supply House, Inc., The, Chicago, Ill. Sugarless candy substitute. Serial No. 645,111, Aug. 25. Class 46.

Chicago Specialty Manufacturing Co., Chicago, Ill. Water closet tank ball valve and valve seating guide. Serial No. 637,913, Aug. 25. Class 13.

Chiklip Company, New York, N. Y. Antipicking poultry blinders. Serial No. 620,772, Aug. 25. Class 50.

Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Hormone preparation. Serial No. 632,921, Aug. 25. Class 18.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Ciba Limited.

City Stores Company, assignee: *See*—
Lansburgh & Bro.

Claremont Laboratories, Inc., Maspeth, N. Y. Television cathode ray tubes. Serial No. 633,489, Aug. 25. Class 21.

Clark's, Mary, Happy Heart Kitchens, Los Angeles, Calif. Fudge candy, orange date pudding, plum pudding, etc. Serial No. 624,129, Aug. 25. Class 46.

Cole, Helen, Inc., New York, N. Y. Decorative metal table stands. Serial No. 627,809, Aug. 25. Class 32.

Commercial Solvents Corporation, New York, N. Y. Antibiotic anesthetic troches. Serial No. 643,536, Aug. 25. Class 18.

Commonwealth Color & Chemical Company, New York, N. Y. Product known as an organic reducing agent for the pre-scouring or cleansing of polyacrylic fibers, etc. Serial No. 625,256, Aug. 25. Class 52.

Coon, W. B., Company, Rochester, N. Y. Women's shoes. Serial Nos. 641,433–4, Aug. 25. Class 39.

Cowden Manufacturing Company, Lexington, Ky. Work clothing. Serial No. 628,674, Aug. 25. Class 39.

Crisfield, Edmund C., Gorham, N. Y. Fish landing net. Serial No. 640,850, Aug. 25. Class 22.

Dalin Pharmaceuticals, Inc., Long Island City, N. Y. Aqueous multivitamin drops. Serial No. 645,117, Aug. 25. Class 18.

Dand-Rid'R Company, New York, N. Y. Dandruff preparation. Serial No. 625,406, Aug. 25. Class 51.

Dan River Mills, Incorporated, Danville, Va. Cotton broadcloth shirting in the piece. Serial No. 644,743, Aug. 25. Class 42.

Davies-Young Soap Company, The, Dayton, Ohio. Powdered soap. Serial No. 623,710, Aug. 25. Class 52.

Davis & Geck, Inc., Brooklyn, N. Y. Orthopedic composition. Serial No. 632,774, Aug. 25. Class 44.

Dealers' Digest Publishing Company, Inc., The, New York, N. Y. Magazines. Serial No. 638,571, Aug. 25. Class 38.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 645,036, Aug. 25. Class 42.

Denison Engineering Company, The, Columbus, Ohio. Valves. Serial No. 620,839, Aug. 25. Class 13.

Douglas Furniture Corporation, Chicago, Ill. Kitchen and dinette tables and chairs. Serial No. 634,394, Aug. 25. Class 32.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Amorphous silica. Serial No. 643,089, Aug. 25. Class 1.

Eagle-Ottawa Leather Company, Grand Haven, Mich. Leather. Serial No. 642,207, Aug. 25. Class 1.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Vitamin compounds and vitamin preparations. Serial No. 643,068, Aug. 25. Class 18.

Ehniger Mills, Inc., New York, N. Y. Textile fabrics. Serial No. 626,867, Aug. 25. Class 42.

Electronic Computer Corporation, assignor to Underwood Corporation, New York, N. Y. Electronic digital computers and delay lines. Serial No. 628,746, Aug. 25. Class 26.

Electroweld Mfg. Co., Inc., Chicago, Ill. Metal wall and floor cabinets. Serial No. 630,590, Aug. 25. Class 32.

Eorich, Henry A., and Co. Inc., New York, N. Y. Shoe rack. Serial No. 637,481, Aug. 25. Class 32.
Eskimo Pie Corporation, Bloomfield, N. J. Vanilla extract. Serial No. 642,025, Aug. 25. Class 46.
Essex Wire Corporation, Detroit, Mich. Electrical building wires. Serial No. 577,954, Aug. 25. Class 21.
Eutectic Welding Alloys Corporation, New York, N. Y. Electrical cutting, gouging, heating and blasting tool. Serial No. 641,374, Aug. 25. Class 21.
Factor, Max, & Co., Hollywood, Calif. Cosmetics, theatrical make-up, and similar preparations. Serial No. 643,307, Aug. 25. Class 51.
Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Printing equipment. Serial No. 623,407, Aug. 25. Class 23.
Feldan Brothers, New York, N. Y. Hosiery. Serial No. 640,202, Aug. 25. Class 39.
Finger Lakes Peat Moss Company, Waterloo, N. Y. Peat moss. Serial No. 633,613, Aug. 25. Class 10.
Finkelstein, Jacob, trading as Norris Laboratories, Norristown, Pa. Animal feed supplement. Serial No. 643,948, Aug. 25. Class 18.
Fit-O-Be Company: *See*—
Peterson, Hilbert W.
Floral Art Studios: *See*—
Ramont, Raymond E.
Food Machinery and Chemical Corporation, San Jose, Calif. Acetyl peroxide, ammonium persulfate, barium nitrate, etc. Serial No. 645,298, Aug. 25. Class 6.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 645,133, Aug. 25. Class 42.
Foxboro Company, The, Foxboro, Mass. Industrial process instruments for the control, recording, or indication of process variables. Serial No. 609,854, Aug. 25. Class 26.
Furs by Robert, Detroit, Mich. Fur garments, and women's apparel. Serial No. 569,751, Aug. 25. Class 39.
Geigy Company, Inc., New York, N. Y. Chemical preparation. Serial No. 645,140, Aug. 25. Class 6.
Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Disinfectant. Serial No. 634,251, Aug. 25. Class 6.
Gilman Paper Company, Gilman, Vt., and New York, N. Y. Gummed tape. Serial No. 639,561, Aug. 25. Class 5.
Giulietti Accordion Corporation, New York, N. Y. All types of accordions. Serial No. 625,268, Aug. 25. Class 36.
Goodman, Mal M., doing business as Malco Company, Los Angeles, Calif. Pans. Serial No. 628,105, Aug. 25. Class 13.
Hargrove Company, The, Minneapolis, Minn. Liquid chemical. Serial No. 638,797, Aug. 25. Class 6.
Harrison Brothers, New York, N. Y. Church garments. Serial No. 641,724, Aug. 25. Class 39.
Harrower Laboratory, Inc., The, Jersey City, N. J. Antihistamine-analgesic preparation. Serial No. 642,548, Aug. 25. Class 18.
Hernandez, Antonio, doing business under the name and style of Kapoot Industries, Los Angeles, Calif. Deodorant cream. Serial No. 629,894, Aug. 25. Class 51.
Highlander Sportswear, Inc., New York, N. Y. Men's, women's, boys' and girls' sportswear. Serial No. 637,540, Aug. 25. Class 39.
Infilco Incorporated, Tucson, Ariz. Machinery and equipment for the removal of suspended, colloidal, and dissolved substances, etc. Serial No. 582,434, Aug. 25. Class 23.
Interlock Corporation, New York, N. Y. Connectors for electrical conductors and other current carrying elements, etc. Serial No. 603,929, Aug. 25. Class 21.
Johns, Robert P., New York, N. Y. Perfumes and toilet waters. Serial No. 639,572, Aug. 25. Class 51.
Kalasteel Products Company, Inc., Kalamazoo, Mich. Wheeled container. Serial No. 635,538, Aug. 25. Class 2.
Kapoot Industries: *See*—
Hernandez, Antonio.
Katz, Max, Bag Company, Inc., Indianapolis, Ind. Tarpaulins, burlap covers, canvas covers, etc. Serial No. 621,886, Aug. 25. Class 50.
Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. Serial No. 616,105, Aug. 25. Class 32.
Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. Serial No. 616,107, Aug. 25. Class 32.
Kiwi Polish Company Proprietary Limited, The, Richmond, near Melbourne, Australia. Polishing preparations. Serial No. 633,542, Aug. 25. Class 4.
Koppers Company, Inc., Pittsburgh, Pa. Insecticides. Serial No. 629,738, Aug. 25. Class 6.
Koppers Company, Inc., Pittsburgh, Pa. Polystyrene. Serial No. 632,991, Aug. 25. Class 6.
Kratt, Wm., Co., Union, N. J. Pitch pipes. Serial No. 640,637, Aug. 25. Class 36.
Kuner-Empson Company, Brighton, Colo. Canned vegetables and canned fruits. Serial No. 538,767, Aug. 25. Class 46.
Laboratory Furniture Co., Inc., Mineola, N. Y. Electrical receptacles and switch mountings. Serial No. 621,627, Aug. 25. Class 21.
Lady Mary, Incorporated, Rockingham, N. C. Ornamental paper pastry boards. Serial No. 613,174, Aug. 25. Class 37.
Lansburgh & Bro., Washington, D. C., assignor to City Stores Company. Women's, misses', and children's coats, suits, dresses, etc. Serial No. 641,310, Aug. 25. Class 39.
Lapp Insulator Company, Inc., Le Roy, N. Y. Electric insulators, and electric condensers. Serial No. 631,992, Aug. 25. Class 21.
Larus & Brother Company, Richmond, Va. Tobacco and tobacco products. Serial No. 625,856, Aug. 25. Class 17.
Le Bon-Carew, Hollywood, Calif. Paper adhesive strips. Serial No. 639,038, Aug. 25. Class 44.
Leichter, Emil, New York, N. Y. Watchmakers' and watch repairmen's tools and supplies. Serial No. 591,300, Aug. 25. Class 23.
Leonard, Paul T., doing business as Leonard's Hatchery & Breeding Farm, Osage, Iowa. Live poultry. Serial No. 642,289, Aug. 25. Class 1.
Leonard's Hatchery & Breeding Farm: *See*—
Leonard, Paul T.
Libbey-Owens-Ford Glass Company, Toledo, Ohio. Mats, bats, and sheets of fibrous glass. Serial No. 643,039, Aug. 25. Class 1.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation of multiple vitamins. Serial No. 637,064, Aug. 25. Class 18.
Little, Harold E., Roanoke, Va. Compounded synthetic detergent. Serial No. 620,895, Aug. 25. Class 52.
"Little California" Coat Co., Los Angeles, Calif. Coats. Serial No. 642,978, Aug. 25. Class 39.
Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts therefor. Serial No. 634,475, Aug. 25. Class 19.
Macalaster Bickbell Parenteral Corporation, The, Cambridge, Mass. Hypodermic-needle washer units, hypodermic-needle rinser units, etc. Serial No. 630,425, Aug. 25. Class 44.
Malco Company: *See*—
Goodman, Mal M.
Management Service Publications, Inc., New York, N. Y. Periodical. Serial No. 644,508, Aug. 25. Class 38.
Marbon Corporation, Gary, Ind. Styrene butadiene copolymer resins. Serial No. 613,414, Aug. 25. Class 6.
Marcalus Manufacturing Co. Inc., East Paterson, N. J. Paper handkerchiefs. Serial No. 623,866, Aug. 25. Class 37.
Massachusetts Mattress Company, Boston, Mass. Mattresses and box springs. Serial No. 575,153, Aug. 25. Class 32.
Mathieson Chemical Corporation, assignee: *See*—
Squibb, E. R., & Sons.
Mathieson Chemical Corporation, New York, N. Y. Dermatological preparation. Serial No. 640,685, Aug. 25. Class 18.
Maurey Manufacturing Corporation, Chicago, Ill. Bush-type sheaves. Serial No. 614,001, Aug. 25. Class 23.
Mechanical Products, Inc., Jackson, Mich. Manually resettable, electric circuit interrupter. Serial No. 630,715, Aug 25. Class 21.
Mennen Company, The, Newark, N. J. Personal deodorant. Serial No. 612,026, Aug. 25. Class 51.
Mentoil Co.: *See*—
Shofner, Eugene F.
Meridan Corporation, Chicago, Ill. Stapling machines and mattress making machines and parts thereof. Serial No. 634,908, Aug. 25. Class 23.
Micamold Radio Corporation, Brooklyn, N. Y. Electrical capacitors. Serial No. 644,047, Aug. 25. Class 21.
Micro Balancing, Incorporated, Garden City Park, N. Y. Light-sensitive electro-mechanical switch. Serial No. 640,048, Aug. 25. Class 21.
Midcontinent Adhesive Company, Grove City, Ohio. Solvent type cement. Serial No. 624,098, Aug. 25. Class 5.
Miller, Anne F., and Stewart, Miami, Fla. Publications of cartoons. Serial No. 608,616, Aug. 25. Class 38.
Miller, Stewart: *See*—
Miller, Anne F., and Stewart.
Milligan Bros. System, Jefferson, Iowa. Chemical preparation having adhesive properties. Serial No. 641,147, Aug. 25. Class 5.
Minnesota Mining and Manufacturing Company, St. Paul, Minn. Magnetic tape. Serial No. 644,243, Aug. 25. Class 21.
Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Rubber soles and for footwear. Serial No. 563,207, Aug. 25. Class 39.
Modern Hanger Corporation, The, Cleveland, Ohio. Pipe hanger assemblies, fittings, concrete inserts, etc. Serial No. 640,296, Aug. 25. Class 13.
Mother's Food Products, Inc., Newark, N. J. Sweet peppers, cucumber salad. Serial No. 629,810, Aug. 25. Class 46.
Munson Masterpieces, Inc., Babylon, N. Y. Greeting cards. Serial No. 642,765, Aug. 25. Class 38.
National Water Main Cleaning Company, New York, N. Y. Maintenance and cleaning of pipe lines. Serial No. 532,047, Aug. 25. Class 103.
Neesen Trading Company, Inc., New York, N. Y. Cured hams. Serial No. 637,605, Aug. 25. Class 46.
Neesen Trading Company, Inc., New York, N. Y. Cured hams. Serial No. 638,268, Aug. 25. Class 46.



Neushaefer, Helen, Inc., College Point, N. Y., formerly A. Sartorius & Co., Inc. Nail polish. Serial No. 615,727, Aug. 25, Class 51.
Nice Company, The: *See*—
Rolfs, David J.
Nobil Shoe Company, The, Akron, Ohio. Ladies' leather shoes. Serial No. 626,528, Aug. 25. Class 39.
Norris Laboratories: *See*—
Finkelstein, Jacob.
North Star Woolen Mill Company, Lima, Ohio. Blankets. Serial No. 644,564, Aug. 25. Class 42.
Paper Products Co.: *See*—
Smith, Omer J.
Parade Publication, Inc., New York, N. Y. Feature picture section of a periodical. Serial No. 642,767, Aug. 25. Class 38.
Parks-Cramer Company, Fitchburg, Mass. Automatic cleaners. Serial No. 641,324, Aug. 25. Class 23.
Patch, E. L., Company, The, Stoneham, Mass. Analgesic tablet. Serial No. 643,974, Aug. 25. Class 18.
Pedi-Pak Products, Inc., Chicago, Ill. Polish for finger nails and toe nails. Serial No. 642,768, Aug. 25. Class 51.
Penick, S. B., & Company, New York, N. Y. Ryania powder. Serial No. 644,448, Aug. 25. Class 6.
Pepperell Manufacturing Company, Boston, Mass. Blankets. Serial No. 644,686, Aug. 25. Class 42.
Peterson, Hilbert W., doing business under the name and style of Fit-O-Be Company, Omaha, Nebr. Portfolios. Serial No. 637,208, Aug. 25. Class 3.
Pharma-Craft Corporation, The, New York, N. Y. Deodorant mouth wash. Serial No. 608,378, Aug. 25. Class 51.
Pharma-Craft Corporation, The, New York, N. Y. Medicinal mouth wash. Serial No. 608,765, Aug. 25. Class 18.
Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Insecticides, fungicides, germicides, etc. Serial No. 645,336, Aug. 25. Class 6.
Portable Electric Tools, Inc., Chicago, Ill. Electrically-operated portable spraying apparatus. Serial No. 641,637, Aug. 25. Class 21.
Progressive Farmer Company, The, Birmingham, Ala. Employee publication. Serial No. 637,838, Aug. 25. Class 38.
Radio Dollars, Inc., Washington, D. C. Sales promotion of radio advertisers' goods and services. Serial No. 623,911, Aug. 25. Class 101.
Ramont, Raymond E., doing business under the firm name of Floral Art Studios, Yucaipa, Calif. Plant leaves. Serial No. 634,489, Aug. 25. Class 1.
Rezolin, Inc., Los Angeles, Calif. Liquid phenolic casting resin. Serial No. 604,327, Aug. 25. Class 6.
Rinshed-Mason Company, Detroit, Mich. Lacquer base putty. Serial No. 624,797, Aug. 25. Class 12.
Roberts, Herbert L., Columbus, Ohio. Women's and girls' wearing apparel. Serial No. 527,789, Aug. 25. Class 39.
Rolfs, David J., doing business as The Nice Company, Barton, Wis. Deodorant and anti-perspiration preparations. Serial No. 610,991, Aug. 25. Class 51.
Rosenbloom, Harry S., Chicago, Ill. Three-dimensional construction toy. Serial No. 638,664, Aug. 25. Class 22.
Rueping, Fred, Leather Company, Fond du Lac, Wis. Leather. Serial No. 642,371, Aug. 25. Class 1.
Rumianca S. P. A., Turin, Italy. Soil conditioner. Serial No 641,744, Aug. 25. Class 10.
Russell & Holmes Corp., Suffolk, Va. Growing girls' and women's shoes. Serial No. 640,810, Aug. 25. Class 39.
S. P. A. Fren-Do, Leumann, Italy. Friction linings. Serial No. 621,684, Aug. 25. Class 35.
Saladmaster Sales Inc., Dallas, Tex. Metal cookware. Serial Nos. 633,737-8, Aug. 25. Class 13.
Saman, Jules, doing business under the name and style of Car-Freshner Co., Watertown, N. Y. Absorbent body impregnated with a perfumed air deodorant. Serial No. 642,372, Aug. 25. Class 6.
Sanitary Seat Manufacturing Corporation, Venice, Calif. Toilet seats and covers. Serial No. 626,423, Aug. 25. Class 13.
Sartorius, A., & Co., Inc.: *See*—
Neushaefer, Helen, Inc.
Sawyer's Inc., Progress and Portland, Oreg. Books. Serial No. 644,458, Aug. 25. Class 38.
Scientific Oil Compounding Company, Inc., Chicago, Ill. Fungicidal material. Serial No. 645,193, Aug. 25. Class 6.
Seaboard Seed Company, Philadelphia, Pa. Grass seed. Serial No. 642,777, Aug. 25. Class 1.
Sealed Power Corporation, Muskegon Heights, Mich. Piston ring expander springs. Serial No. 621,336, Aug. 25. Class 35.
Selberling Rubber Company, Barberton, Ohio. Rigid polyvinyl chloride sheets. Serial No. 642,375, Aug. 25. Class 1.
Self Storing Window Company, Inc., Minneapolis, Minn. Porch enclosure assemblies. Serial No. 640,132, Aug. 25. Class 12.
Sellstrom Manufacturing Company, Chicago, Ill. Industrial and sporting goggles, spectacles, welders' helmets, etc. Serial No. 618,255, Aug. 25. Class 26.
Serta Associates, Inc., Chicago, Ill., and Wilmington, Del. Mattresses. Serial No. 633,880, Aug. 25. Class 32.
Shofner, Eugene F., doing business as Mentoil Co., Fayetteville, Tenn. Remedy for head colds and minor skin affections. Serial No. 644,875, Aug. 25. Class 18.
Shrago, Mannah N., Goldsboro, N. C. Leather shoes. Serial No. 640,762, Aug. 25. Class 39.
Sier-Bath Gear and Pump Co., Inc., North Bergen, N. J. Gear type pumps. Serial No. 627,306, Aug. 25. Class 23.
Sierra Electric and Manufacturing Company, Los Angeles, Calif. Wall plates for electrical switches. Serial No. 641,981, Aug. 25. Class 21.
Sioux Honey Association, Cooperative, Sioux City, Iowa. Honey. Serial No. 647,375, Aug. 25. Class 46.
Sita-Adventure Trails, Inc., New York, N. Y. Conducting escorted travel tours. Serial No. 642,846, Aug. 25. Class 105.
Smith, Omer J., doing business as Paper Products Co., Cincinnati, Ohio. Paper products. Serial No. 578,106, Aug. 25. Class 37.
Societe Alsacienne de Constructions Mecaniques, Societe Anonyme, Mulhouse, Haut-Rhin, France. Electric wires and cables; electronic relays; audio and carrier transmitters, etc. Serial No. 622,362, Aug. 25. Class 21.
Societe Commerciale des Produits du Petrole, Paris, Seine, France. Lubricating oil. Serial No. 643,437, Aug. 25. Class 15.
Societe Francaise Radio-Electrique, Paris, France. Electron tubes. Serial No. 638,612, Aug. 25. Class 21.
Société Mulban S. A. R. L., Paris, France. Nasal inhaling apparatus. Serial No. 593,247, Aug. 25. Class 44.
Southern Biscuit Company: *See*—
Weston Biscuit Company Inc.
Spiegel, Inc., Chicago, Ill. Men's and ladies' shoes. Serial No. 615,468, Aug. 25. Class 39.
Squibb, E. R., & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va. Penicillin-containing antibacterial preparations. Serial No. 632,451, Aug. 25. Class 18.
Standard Blade Co. Inc., New York, N. Y. Safety razor blades. Serial No. 648,141, Aug. 25. Class 23.
Stanley Home Products, Inc., Westfield, Mass. Cosmetics. Serial No. 639,789, Aug. 25. Class 51.
Steel City Manufacturing Co., The, Youngstown, Ohio. Refrigerated beverage dispensers. Serial No. 643,246, Aug. 25. Class 31.
Step Laboratories: *See*—
Stenanian, John.
Stenanian, John, doing business as Step Laboratories, West New York, N. J. Control valves for gas burners and blow torches. Serial No. 619,269, Aug. 25. Class 34.
Stern Brothers, New York, N. Y. Living room furniture, bedroom furniture, dining room furniture, etc. Serial No. 639,517, Aug. 25. Class 32.
Suo Electric Corporation, Chicago, Ill. Automotive power plant testing apparatus. Serial No. 616,459, Aug. 25. Class 26.
Swan-Finch Oil Corporation, New York, N. Y. Lubricating oils, lubricating greases, cutting and drawing lubricants (oil), etc. Serial No. 626,739, Aug. 25. Class 15.
Swan-Finch Oil Corporation, New York, N. Y. Anti-freeze compounds, rust preventives, and textile processing oils. Serial No. 639,438, Aug. 25. Class 6.
Swindle, D. W., doing business as D. W. Swindle and Sons Company, Nashville, Tenn. Brooms. Serial No. 648,510, Aug. 25. Class 29.
Swindle, D. W., and Sons Company: *See*—
Swindle, D. W.
Tennessee Hosiery Mills Co., Niota, Tenn. Men's socks. Serial No. 642,710, Aug. 25. Class 39.
Thomas & Skinner Steel Products Company, Indianapolis, Ind. Laminations for electro-magnetic apparatus, permanent magnets, permanent magnet assemblies, etc. Serial No. 632,334, Aug. 25. Class 21.
Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Wool braided rugs. Serial No. 645,443, Aug. 25. Class 42.
Truecraft Tool Company, Chicago, Ill. Pliers, wrenches, and screwdrivers. Serial No. 643,513, Aug. 25. Class 23.
Underwood Corporation, assignee: *See*—
Electronic Computer Corporation.
Union Bag & Paper Corporation, New York, N. Y. Waterproof paper for sheathing, lining, insulating, etc. Serial No. 639,676, Aug. 25. Class 12.
United American Metals Corporation, Brooklyn, N. Y. Movable machinery for heating and pouring metals prior to casting same. Serial No. 582,584, Aug. 25. Class 34.
United Pure Food Co., New York, N. Y. Combination package of olives, cherries, and onions. Serial No. 631,507, Aug. 25. Class 46.
United States Movidyn Corporation, The, Chicago, Ill. Activated colloidal silver compound. Serial No. 645,272, Aug. 25. Class 6.
United States Steel Company, Pittsburgh, Pa., now by merger, United States Steel Corporation. Belt pulleys and object-supporting rolls. Serial No. 616,258, Aug. 25. Class 23.
United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation. Constructional steel sections, bars, and plates. Serial No. 628,658, Aug. 25. Class 12.

United States Steel Corporation: *See*—
United States Steel Company.

Universal Form Clamp Co., Chicago, Ill. Concrete construction forms and parts for the forms. Serial No. 628,311, Aug. 25. Class 12.

Victaulic Company of America, Union, N. J. Gaskets. Serial No. 641,877, Aug. 25. Class 35.

Victor Equipment Company, San Francisco, Calif. Coated and uncoated welding rods. Serial No. 624,714, Aug. 25. Class 14.

Walrus Products, New York, N. Y. Fishing tackle. Serial No. 644,081, Aug. 25. Class 22.

Weston Biscuit Company Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Cakes, cookies, and crackers. Serial No. 631,030, Aug. 25. Class 46.

White Laboratories, Inc., Kenilworth, N. J. Ear drops. Serial No. 643,390, Aug. 25. Class 18.

Wisconsin Door Company, Livonia, Mich. Plywood and door panels. Serial No. 643,013, Aug. 25. Class 12.

Wulff, Maggie, doing business as Wulff Public Relations, Cleveland, Ohio. Advertising the goods and services of others. Serial No. 637,031, Aug. 25. Class 101.

Wulff Public Relations: *See*—
Wulff, Maggie.

# LIST OF REGISTRANTS OF TRADE-MARKS

Alexander Doll Company, Inc., New York, N. Y. Dolls. 579,057, Aug. 25; Serial No. 628,247, published June 2, 1953. Class 22.

Allen, S. L., & Co., Inc., Philadelphia, Pa. Sleds and skis. 579,106, Aug. 25; Serial No. 635,454, published June 2,1953. Class 22.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrical conductivity meters, etc. 579,013, Aug. 25; Serial No. 619,002, published June 2, 1953. Class 26.

American Colortype Company, Chicago, Ill. Periodical publication. 579,032, Aug. 25; Serial No. 623,294, published June 2, 1953. Class 38.

American Felt Company, Boston, Mass., to American Felt Company, Glenville, Conn. Felt in the piece. 94,149, re-renewed Nov. 11, 1953. O. G. Aug. 25. Class 50.

American Felt Company, Glenville, Conn. Felt pads. 579,177, Aug. 25; Serial No. 639,978, published May 26, 1953. Class 50.

American-Marietta Company: *See*—
Marietta Paint & Color Co., The.

American Stores Company, Philadelphia, Pa. Canned apple sauce, apple butter, tomato catsup, etc. 578,978, Aug. 25; Serial No. 588,622, published May 26, 1953. Class 46.

American Stores Company, Philadelphia, Pa. Cleanser and pine oil cleanser disinfectant. 578,994, Aug. 25; Serial No. 606,843, published June 2, 1953. Class 52.

American Wire Fabrics Company, Chicago, Ill., and Clinton, Iowa, to American Wire Fabrics Corporation, New York, N. Y. Screen wire-cloth. 93,658, re-renewed Oct. 14, 1953. O. G. Aug. 25. Class 13.

American Wire Fabrics Corporation: *See*—
American Wire Fabrics Company.

American Wire Fabrics Corporation, New York, N. Y. Wire screening. 307,236, renewed Oct. 17, 1953. O. G. Aug. 25. Class 13.

Anderson, Clayton & Co., Sherman, Tex., and elsewhere. Mono and diglycerides, used as an ingredient in vegetable oil food products, etc. 579,076, Aug. 25; Serial No. 631,233, published May 26, 1953. Class 46.

Annin & Co., New York, N. Y. Bunting. 91,749, re-renewed May 27, 1953. O. G. Aug. 25. Class 42.

Arlington Window Shade Corporation, New York, N. Y. Metal Venetian blinds. 578,979, Aug. 25; Serial No. 590,251, published June 2, 1953. Class 32.

Arrow Packing Co., Exeter, Calif. Fresh grapes. 579,168, Aug. 25; Serial No. 639,360, published May 26, 1953. Class 46.

Art Steel Sales Corporation, New York, N. Y. Letter trays; hinged cover card cabinets; filing cabinets; etc. 579,131, Aug. 25; Serial No. 637,029, published June 9, 1953. Class 32.

Associated Merchandising Corporation, The, New York, N. Y. Golf clubs. 579,194, Aug. 25; Serial No. 641,894, published June 2, 1953. Class 22.

Associated Patentees, Inc., Ampere, N. J. Electrical control apparatus. 579,218, Aug. 25. Serial No. 605,838. Class 21.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Liquid synthetic rubber preparation which is adapted to be applied to a surface to form a rubber coating thereon. 579,058, Aug. 25; Serial No. 628,250, published June 9, 1953. Class 16.

Auditorium Pharmacy Company, to Carrel, Ltd., Chicago, Ill. Lotions. 40,144, re-renewed Apr. 21, 1953. O. G. Aug. 25. Class 51.

Augstein, S., & Co., Inc., College Point, N. Y. Corsets, girdles, panty girdles, etc. 579,178, Aug. 25; Serial No. 640,097, published June 9, 1953. Class 39.

Automatic Canteen Company of America, Chicago, Ill. Leasing of vending machines. 579,200, Aug. 25; Serial No. 592,691, published June 2, 1953. Class 100.

Automatic Pump & Softener Corporation, Rockford, Ill. Water treatment apparatus. 579,014, Aug. 25; Serial No. 619,597, published May 5, 1953. Class 23.

Bacharach Industrial Instrument Company, Pittsburgh, Pa. Control instruments employed to regulate heat output of combustion heating facilities. 578,980, Aug. 25; Serial No. 592,066, published May 19, 1953. Class 26.

Bakers Associates Incorporated, Chicago, Ill. Bread and bread mix. 579,145, Aug. 25; Serial No. 637,531, published May 26, 1953. Class 46.

Baltimore Paint & Color Works, Baltimore, Md. Ready mixed house paint, paint and/or baking enamel, varnish, etc. 578,971, Aug. 25; Serial No. 547,606, published June 9, 1953. Class 16.

Bankers Securities Corporation, doing business as Snellenburgs Philadelphia, Pa. Mattresses, box springs, day beds, etc. 579,138, Aug. 25; Serial No. 637,297, published June 2, 1953. Class 32.

Bar-Ray Products, Incorporated, Brooklyn, N. Y. Developing tanks. 579,217, Aug. 25; Serial No. 604,337. Class 26.

Basile, Benjamin P., doing business as Basile's Italian Foods, Rockford, Ill. Complete spaghetti dinner. 579,232, Aug. 25; Serial No. 632,975. Class 46.

Basile's Italian Foods: *See*—
Basile, Benjamin P.

Becton, Dickinson and Company: *See*—
Becton, Dickinson & Co.

Becton, Dickinson and Company, Rutherford, N. J. Hypodermic needles. 305,486, renewed Aug. 15, 1953. O. G. Aug. 25. Class 44.

Becton, Dickinson and Company, Rutherford, N. J. Syringes and needles made for hypodermic and other medical and surgical uses, etc. 306,111, renewed Sept. 5, 1953. O. G. Aug. 25. Class 44.

Becton, Dickinson and Company, Rutherford, N. J. Hypodermic syringes and needles. 306,120, renewed Sept. 5, 1953. O. G. Aug. 25. Class 44.

Beepers Novelty Corp., New York, N. Y. Toy. 579,084, Aug. 25; Serial No. 632,646, published June 2, 1953. Class 22.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. 579,039, Aug. 25; Serial No. 624,094, published June 9, 1953. Class 2.

Ben Hur Coal Co. Inc., Henryetta, Okla. Coal. 579,097, Aug. 25; Serial No. 634,569, published June 2, 1953. Class 1.

Berndt, C. M., Company, Inc: *See*—
Berndt & Co.

Berndt & Co., to C. M. Berndt Company, Inc., Baltimore, Md. South American tea. 88,832, re-renewed Oct. 20, 1952. O. G. Aug. 25. Class 46.

Beta Theta Pi, Oxford, Ohio. Recruiting and pledging prospective members of the chapters of a national collegiate fraternity. 579,211, Aug. 25; Serial No. 621,998, published June 2, 1953. Class 100.

Bettermade Garment Company, Los Angeles, Calif. Women's wearing apparel. 579,153, Aug. 25; Serial No. 638,239, published June 2, 1953. Class 39.

Bifex Foundations, Inc., New York, N. Y. Girdles. 579,182, Aug. 25; Serial No. 640,324, published June 2, 1953. Class 39.

Big Apple Super Markets, Inc., Atlanta, Ga. Fresh eggs and coffee. 579,002, Aug. 25; Serial No. 611,097, published May 19, 1953. Class 46.

Blatz Brewing Company, Milwaukee, Wis. Beer. 579,133, Aug. 25; Serial No. 637,160, published June 2, 1953. Class 48.

Böhme, Agathe: *See*—
Häsemann, Georg.

Bonfigt, Franz, Aachen, Germany, to Pulger, Bonfigt & Co., Koeln and Rhein, Germany. Fret-saws. 93,158, re-renewed Aug. 26, 1953. O. G. Aug. 25. Class 23.

Borden Company, The: *See*—
Borden's Condensed Milk Co.

Borden's Condensed Milk Co., to The Borden Company, New York, N. Y. Ice-cream. 92,038, re-renewed June 17, 1953. O. G. Aug. 25. Class 46.

Boyle-Midway, Inc.: *See*—
Wizard, Inc.

Bradley, Lawrence R.: *See*—
Robinson, Perry, Corporation, The.

Briggs, O. J., Lumber Company, White Cloud, Mich. Fruit crates. 579,190, Aug. 25; Serial No. 640,907, published June 9, 1953. Class 2.

Brown and Findelsen, Inc., Miami, to The Miami Visitor Publishing Company, Inc., Miami Beach, Fla. Periodical. 299,990, renewed Jan. 3, 1953. O. G. Aug. 25. Class 38.

Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Typewriter ribbons and carbon paper. 578,998, Aug. 25; Serial No. 608,747, published June 2, 1953. Class 11.



Burkart, Frank: *See*—
Floriorange Canneries, Inc.

Burkart Products: *See*—
Floriorange Canneries, Inc.

Burke, Frank G., to Manhattan Soap Company, Inc., New York, N. Y. Talcum powder. 94,235, re-renewed Nov. 18, 1953. O. G. Aug. 25. Class 51.

"Burrus Feed Mills": *See*—
Burrus Mills, Incorporated.

Burrus Mills, Incorporated, doing business under the name and style of "Liberty Mills" and "Burrus Feed Mills," San Antonio and Fort Worth, Tex. Range feed and protein-enriched range feed. 579,018, Aug. 25; Serial No. 621,655, published May 26, 1953. Class 46.

Cardinal China Co., Carteret, N. J. Table dishes. 579,230, Aug. 25; Serial No. 631,464. Class 2.

Carlson Products Co.: *See*—
Carlson, Walter P.

Carlson Products, Inc., assignee: *See*—
Carlson, Walter P.

Carlson, Walter P., doing business as Carlson Products Co., St. Louis, assignor to Carlson Products, Inc., St. Louis County, Mo. Ironing board cover fasteners. 579,220, Aug. 25; Serial No. 612,306. Class 24.

Carrel, Ltd.: *See*—
Auditorium Pharmacy Company.

Cement Gun Company: *See*—
Cement-Gun Company, Inc.

Cement-Gun Company, Inc., New York, N. Y., and Allentown, Pa., to Cement Gun Company, Allentown, Pa. Cementitious material for stack construction and repair. 308,005, renewed Nov. 14, 1953. O. G. Aug. 25. Class 12.

Center Chemical Corporation, Cleveland, Ohio. Metal-surface coating compositions. 579,056, Aug. 25; Serial No. 628,191, published June 9, 1953. Class 16.

Chek-Chart Corporation, The, Chicago, Ill. Publications and prints. 579,043, Aug. 25; Serial No. 626,561, published June 2, 1953. Class 38.

Chi Phi Fraternity, The, Atlanta, Ga. Organizing chapters in a national collegiate fraternity, etc. 579,210, Aug. 25; Serial No. 596,833, published Apr. 28, 1953. Class 100.

Chill Products Corporation Ltd., Los Angeles, Calif. Chili powder and paprika. 579,195, Aug. 25; Serial No. 612,198, published June 2, 1953. Class 46.

Chrome-Tec Distributing Company, Ferndale, Mich. Chemical composition in the form of a coating. 579,041, Aug. 25; Serial No. 625,340, published June 9, 1953. Class 16.

Cincinnati Industries Inc., Cincinnati, Ohio. Receptacles. 579,101, Aug. 25; Serial No. 635,026, published June 2, 1953. Class 2.

Claro Laboratories, South Bend, Ind. Shaving cream and skin salve. 433,402, Oct. 14, 1947. Republished Aug. 25. Classes 6 and 51.

Cleveland Hobbing Machine Company, The, Euclid, Ohio. Hobbing machines. 579,038, Aug. 25; Serial No. 624,227, published May 5, 1953. Class 23.

Cleveland Welding Company, The, Cleveland, Ohio. Bicycles. 579,216, Aug. 25; Serial No. 598,354. Class 19.

Clinical Laboratories, Inc., The, Phoenix, Ariz. Laboratory and X-ray supplies. 578,986, Aug. 25; Serial No. 601,492, published May 19, 1953. Class 26.

Close-Up, Inc., New York, N. Y., and St. Louis, Mo. Magazine. 579,169, Aug. 25; Serial No. 639,554, published June 2, 1953. Class 38.

Coladonato Bros., Hazleton, Pa. Racks. 579,072, Aug 25; Serial No. 630,579, published June 9, 1953. Class 32.

Cold Spring Bleachery, Yardley, Pa. Bleaching, mercerizing, dyeing, printing, and shrinking of textile fabrics. 579,203, Aug. 25; Serial No. 625,000, published May 26, 1953. Class 100.

Coleman, Dorothy, Chicago, Ill. Candy. 579,009, Aug 25; Serial No. 617,946, published June 2, 1953. Class 46.

Columbia Mills, Inc., The, Syracuse, N. Y. Window shade rollers. 579,077, Aug. 25; Serial No. 631,604, published June 2, 1953. Class 32.

Comptone Company, Ltd., New York, N. Y. Sun glasses, eyeglasses, spectacles, etc. 579,223, Aug. 25; Serial No. 618,289. Class 26.

Condies, Mrs., Salad Company, Salt Lake City, Utah. Washed and prepared raw vegetables. 578,987, Aug. 25; Serial No. 602,372, published May 19, 1953. Class 46.

Condies, Mrs., Salad Company, Salt Lake City, Utah. Washed and prepared raw vegetables. 578,988, Aug 25; Serial No. 602,373, published May 26, 1953. Class 46.

Congoleum-Nairn Inc., Kearny, N. J. Flexible floor and wall coverings. 579,092–3, Aug. 25; Serial Nos. 633,604–5, published June 9, 1953. Class 20.

Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coated paper. 579,130, Aug. 25; Serial No. 636,841, published May 5, 1953. Class 37.

Copydex Manufacturing Co. Ltd., London, England. Rubber base liquid adhesives. 579,006, Aug. 25; Serial No. 614,492, published June 2, 1953. Class 5.

Corn States Advertising Service, Inc., Des Moines, Iowa. Home blackboard. 579,067, Aug. 25; Serial No. 629,478, published May 26, 1953. Class 50.

Cowles Magazines, Inc., Des Moines, Iowa, and New York, N. Y. Section in a periodical publication. 579,179, Aug. 25; Serial No. 640,104, published June 2, 1953. Class 38.

Crag Products, Inc., Newark, N. J. Ingredient for addition to adhesive cements. 579,037, Aug. 25; Serial No. 624,026, published June 2, 1953. Class 5.

Creative Plastics Corp., Stony Brook, N. Y. Mountings of transparent plastic for the display of objects. 579,015, Aug. 25; Serial No. 619,744, published May 26, 1953. Class 50.

Crook Paper Box Company, North Kansas City, Mo. Collapsible cardboard and paper boxes. 579,091, Aug. 25; Serial No. 633,609, published June 9, 1953. Class 2.

Crown Zellerbach Corporation, San Francisco, Calif. Dispensing cabinets. 579,069, Aug. 25; Serial No. 629,889, published June 9, 1953. Class 2.

Crucible Steel Company of America, New York, N. Y. Steel. 579,197, Aug. 25; Serial No. 642,624, published June 2, 1953. Class 14.

Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, skirts, coats, etc. 579,149, Aug. 25; Serial No. 637,459, published June 9, 1953. Class 39.

Dallas Smith Corporation, Indianapolis, Ind. Cardboard chairs. 579,172, Aug. 25; Serial No. 639,721, published June 9, 1953. Class 32.

Dapol Plastics, Inc., Worcester, Mass. Spice racks, napkin holders, and salt and pepper sets. 579,127, Aug. 25; Serial No. 636,777, published June 2, 1953. Class 2.

Davidow, Inc. Sportswear, New York, N. Y. Ladies' and misses' dresses, dress ensembles, suits, etc. 579,187–8, Aug. 25; Serial Nos. 640,672–3, published June 9, 1953. Class 39.

Debevoise Company, The, Brooklyn, N. Y. Paint. 579,120, Aug. 25; Serial No. 636,119, published June 2, 1953. Class 16.

De Frates, Joseph F., Springfield, Ill. Chilli mix. 579,005, Aug. 25; Serial No. 614,137, published May 26, 1953. Class 46.

Dempster Brothers, Incorporated, Knoxville, Tenn. Container units. 579,231, Aug. 25; Serial No. 631,979. Class 2.

Devold, Peder, Aalesund, Norway, to Chas. L. Huisking & Co., Inc., Brooklyn, N. Y. Cod-liver oil. 40,681, re-renewed June 30, 1953. O. G. Aug. 25. Class 18.

Diebold, Incorporated, Canton, Ohio. Safes and metal structures in the nature of safes and parts thereof. 579,173, Aug. 25; Serial No. 639,747, published June 9, 1953. Class 25.

Difco Laboratories Incorporated, Detroit, Mich. New bacteriological peptone. 296,341, renewed Aug. 2, 1952. O. G. Aug. 25. Class 18.

Distributors Trucking Corporation, New York, N. Y. Wheat-flour. 578,982, Aug. 25; Serial No. 599,206, published May 26, 1953. Class 46.

DoAll Company, The, Des Plaines, Ill. Supply cabinets. 579,071, Aug. 25; Serial No. 630,395, published June 2, 1953. Class 32.

Dole Sales Company: *See*—
Hawaiian Pineapple Company, Limited.

Dolge, C. B., Company, The, Westport, Conn., to Fulton Bag and Cotton Mills, Atlanta, Ga. Preparation for exterminating rodents. 305,415, renewed Aug. 15, 1953. O. G. Aug. 25. Class 6.

Doud Milling Company, Denison, Iowa. Pancake flour, corn meal, rye graham flour, etc. 579,052, Aug. 25; Serial No. 627,626, published June 2, 1953. Class 46.

Dresser Industries, Inc., Bradford, Pa., and Connersville, Ind. Rotary air and gas compressors and pumps. 579,070, Aug. 25; Serial No. 630,129, published Mar. 24, 1953. Class 23.

Dudley, Anderson and Yutzy, New York, N. Y. Newspaper column. 579,079, Aug. 25; Serial No. 632,159, published June 2, 1953. Class 38.

Dupli-Color Products Company, Inc., Chicago, Ill. Lacquers and paints. 579,047, Aug. 25; Serial No. 627,256, published June 2, 1953. Class 16.

Dupont Pharmacy, Inc., Washington, D. C. Maltless, non-alcoholic beverages. 306,812, Sept. 26, 1933. Corrected. O. G. Aug. 25. Class 45.

Duthie & Company: *See*—
Duthie, Thomas A.

Duthie, Thomas A., doing business under the assumed business name of Duthie & Company, Portland, Oreg. Fresh apples and pears. 578,984, Aug. 25; Serial No. 600,825, published May 26, 1953. Class 46.

Earle Hardware Manufacturing Company, Reading, Pa. Night latches, locks, and parts thereof. 579,193, Aug. 25; Serial No. 641,675, published June 9, 1953. Class 25.

Edgar, G. H., Pittsburgh, Pa. Cheese coated potato chips. 579,030, Aug. 25; Serial No. 622,885, published May 19, 1953. Class 46.

Edgeform Products Co.: *See*—
Greitzer, Meyer.

Edroy Products Company: *See*—
Herbert, Edward J.

Elting Brothers, Inc.: *See*—
Victorius, A. V., & Co., Inc.

European Coast Chemical House: *See*—
Wong, Howard.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Kit containing various materials used for soldering aluminum cables. 579,045, Aug. 25; Serial No. 626,808, published May 12, 1953. Class 50.

Exportlists. Försäljnings Aktiebolag, Nykoping, Sweden. Curtain poles, cornices for interior decorations, frames, etc. 578,981, Aug. 25; Serial No. 596,018, published June 9, 1953. Class 32.

F. Pallcio y Compañía, S. A., Fábrica de Tabacos: *See*—
Fernandez, Pallcio y Compañía, S. en C.

Faber-Castell, A. W., Pencil Co., Inc., Newark, N. J. Rulers, calculating rules; T-squares and triangles. 579,161, Aug. 25; Serial No. 638,761, published May 26, 1953. Class 26.

Fairmont Foods Company, Omaha, Nebr. Butter, fresh frozen and dried eggs, fluid milk, etc. 579,011, Aug. 25; Serial No. 618,697, published May 26, 1953. Class 46.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Adhesives. 579,085, Aug. 25; Serial No. 633,149, published June 2, 1953. Class 5.

Femode Foundations, Inc., New York, N. Y. Ladies' and misses' corsets, corselettes, girdles, etc. 579,183, Aug. 25; Serial No. 640,306, published June 2, 1953. Class 39.

Ferguson Fumigants, Inc., Ferguson, Mo. Fumigant. 579,234, Aug. 25; Serial No. 636,635. Class 6.

Fernandez, Pallcio y Compañía, S. en C., to F. Pallcio y Compañía, S. A., Fábrica de Tabacos, Habana, Cuba. Cigars. 307,755, renewed Oct. 31, 1953. O. G. Aug. 25. Class 17.

Firma D. van Creveld: *See*—
Frenk, Salomon.

Florida Citrus Exchange, to Florida Citrus Exchange, Tampa, Fla. Canned citrus fruits. 298,049, renewed Oct. 11, 1952. O. G. Aug. 25. Class 46.

Florlorange Canneries, Inc., to F. Burkart, doing business as Burkart Products, Mount Dora, Fla. Canned citrus fruits and canned citrus fruit juices. 299,716, renewed Dec. 20, 1952. O. G. Aug. 25. Class 46.

Foilrapp, Inc., Seattle, Wash. Aluminum foil. 579,154–5, Aug. 25; Serial Nos. 638,251–2, published June 9, 1953. Class 14.

Ford Motor Company Limited, London, England. Passenger automobiles and structural parts thereof. 579,110, Aug. 25; Serial No. 635,638, published May 19, 1953. Class 19.

Ford Motor Company Limited, London, England. Passenger automobiles and structural parts thereof. 579,111–12, Aug. 25; Serial Nos. 635,639–40, published May 26, 1953. Class 19.

Fount-Wip, Inc., St. Louis, Mo. Empty refillable valved pressure containers. 579,215, Aug. 25; Serial No. 596,908. Class 2.

Frenk, Salomon, doing business as Firma D. van Creveld, Rotterdam, Netherlands. Canned cooked ham. 579,098, Aug. 25; Serial No. 634,638, published June 9, 1953. Class 46.

Fulton Bag and Cotton Mills: *See*—
Dolge, C. B., Company, The.

Galesburg Vault Company: *See*—
Smith, Samuel M.

Garan Chemical Corporation, Los Angeles, Calif. Internal parting agent. 579,095, Aug. 25; Serial No. 634,407, published June 2, 1953. Class 1.

Gaylord Products, Incorporated, Chicago, Ill. Hair nets. 579,184, Aug. 25; Serial No. 640,309, published June 2, 1953. Class 39.

Gaylord-Shelton, Inc., Chicago, Ill. Wire wheel discs for automotive vehicles. 579,198–9, Aug. 25; Serial Nos. 642,966–7, published June 2, 1953. Class 19.

General American Transportation Corporation, Chicago, Ill. Maintaining and repairing of railroad freight and express cars, etc. 579,208, Aug. 25; Serial No. 635,760, published May 26, 1953. Class 103.

General Electric Company: *See*—
Locke Incorporated.

General Latex & Chemical Corporation, Cambridge, Mass. Natural, synthetic rubber, or rubber-like powder or pellets. 579,105, Aug. 25; Serial No. 635,361, published June 2, 1953. Class 1.

General Motors Corporation, Detroit, Mich. Cigarette lighters. 579,166, Aug. 25; Serial No. 639,033, published June 2, 1953. Class 8.

Gilman Paint and Varnish Company, Chattanooga, Tenn. Varnish. 578,997, Aug. 25; Serial No. 607,807, published June 2, 1953. Class 16.

Globe Venetian Blind Corporation, Baltimore, Md. Venetian blinds. 578,999, Aug. 25; Serial No. 610,058, published Apr. 21, 1953. Class 32.

Glostex Products, Inc., Chicago, Ill. Seat covers for automobiles and boats. 579,142, Aug. 25; Serial No. 637,437, published June 2, 1953. Class 19.

Goldblatt Bros., Inc., Chicago, Ill. Cigars. 303,957, renewed June 13, 1953. O. G. Aug. 25. Class 17.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Inner tubes. 579,228, Aug. 25; Serial No. 631,157. Class 35.

Grant Publishing Corporation, Chicago, Ill. Greeting and Christmas cards. 579,174, Aug. 25; Serial No. 639,754, published June 2, 1953. Class 38.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Ice cream. 307,957, renewed Nov. 14, 1953. O. G. Aug. 25. Class 46.

Green, James X., doing business under the fictitious name and style of Key Manufacturing Co., Glendale, Calif. Bottle openers and closers. 579,137, Aug. 25; Serial No. 637,274, published May 5, 1953. Class 23.

Greitzer, Meyer, doing business as Edgefurn Products Co., Los Angeles, Calif. Chairs, tables, buffets, etc. 579,080, Aug. 25; Serial No. 632,160, published June 9, 1953. Class 32.

Gum, Inc., to Haelan Laboratories, Inc., Philadelphia, Pa. Chewing gum. 304,132, renewed June 20, 1953. O. G. Aug. 25. Class 46.

Hadston Machine Works, Callahan, Calif. Hand operated tools, holding claws for use with power driven saws. 578,995, Aug. 25; Serial No. 607,589, published Feb. 3, 1953. Class 23.

Haelan Laboratories, Inc.: *See*—
Gum, Inc.

Haenonis Indian Dancers, Glenbrook, Conn. Stimulating interest in the history, civilization, customs, culture, trades and skills of the American Indian, etc. 579,201, Aug. 25; Serial No. 604,888, published May 26, 1953. Class 100.

Halben Food Manufacturing Co., Inc., St. Louis, Mo. Barbecue sauce, chop suey sauce, French dressing, etc. 579,008, Aug. 25; Serial No. 615,350, published May 26, 1953. Class 46.

Hansen Glove Corporation, Milwaukee, Wis. Men's and ladies' gloves. 579,175, Aug. 25; Serial No. 639,883, published June 2, 1953. Class 39.

Harcourt-Harris, Inc., New York, N. Y. Motion picture films, photographic transparencies, unexposed light sensitized films, etc. 432,470, Sept. 2, 1947. Republished Aug. 25. Class 26.

Harrison Paint & Varnish Company, The, Canton, Ohio. Ready mixed oil paints, paint enamels, and varnishes. 578,996, Aug. 25; Serial No. 607,673, published June 2, 1953. Class 16.

Häsemann, Georg, to A. Röhme, nee Reinhardt, Bremen, Germany. Medicine for external human use. 304,992, renewed July 28, 1953. O. G. Aug. 25. Class 18.

Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company, Honolulu, Hawaii, and San Francisco, Calif. Frozen concentrated pineapple juice. 579 224, Aug. 25; Serial No. 624,196. Class 46.

Heacock, Lee F., Jr., doing business as Selector Company, New York, assignor to Selector Production Corporation, Yonkers, N. Y. Business directory inserts. 579,049–50, Aug. 25; Serial Nos. 627,443–4, published June 2, 1953. Class 38.

Health Information Foundation, New York, N. Y. Gathering and distributing basic information about health, etc. 579,204, Aug. 25; Serial No. 625,737, published June 2, 1953. Class 100.

Hearst Corporation, The: *See*—
King Features Syndicate, Inc.
Star Company.

Hearst Corporation, The, New York, N. Y. Newspaper section or column. 579,180, Aug. 25; Serial No. 640,212, published June 2, 1953. Class 38.

Heat-Timer Corporation, New York, N. Y. Electronic smoke detecting and burner control apparatus. 579,000, Aug. 25; Serial No. 610,685, published June 2, 1953. Class 26.

Herbert, Edward J., doing business under the firm name and style of Edroy Products Company, New York, N. Y. Fishing boxes. 579,028, Aug. 25; Serial No. 622,541, published June 2, 1953. Class 22.

Hercules Powder Company, Wilmington, Del. Magazine. 579,170, Aug. 25; Serial No. 639,038, published June 2, 1953. Class 38.

Hickory Smoked Cheese Corp., New York, N. Y. Cheese bars. 579,227, Aug. 25; Serial No. 626,510. Class 46.

Hill, Norman W., doing business as M. J. Laughery Company, Pittsburgh, Pa. Tea, coffee, vinegar, etc. 579,066, Aug. 25; Serial No. 620,314, published May 26, 1953. Class 46.

Hollymade Hardware Mfg. Co., Los Angeles, Calif. Builders' hardware—namely, locks, latches, and locking bolts. 579,040, Aug. 25; Serial No. 625,105, published June 9, 1953. Class 25.

Hollywood-Maxwell Company, Los Angeles, Calif. Brassières. 579,186, Aug. 25; Serial No. 640,633, published June 9, 1953. Class 39.

Hordern-Richmond Limited, Haddenham, Buckinghamshire, England. Textile spinning and weaving machines and weaving looms and parts thereof, etc. 578,990, Aug. 25; Serial No. 602,842, published Mar. 24, 1953. Class 23.

House of Hus'on, Inc., Miami, Fla. Bird seed. 579,136, Aug. 25; Serial No. 637,256, published May 26, 1953. Class 46.

Hubbard & McClary, Windsor, Vt., by Red Devil Tools, Irvington, N. J. Machines for setting glaziers' points. 245,035, Aug. 7, 1928. Republished Aug. 25. Class 23.

Hulsking, Chas. L., & Co., Inc.: *See*—
Devold, Peder.

Hygeia Milk Products Co., Harlingen, Tex. Ice cream bar. 579,035, Aug. 25; Serial No. 623,837, published May 26, 1953. Class 46.



Imperial Brassiere Corp., New York, N. Y. Ladies' and misses' brassières, bandeaux, and girdles. 579,185, Aug. 25; Serial No. 640,516, published June 2, 1953. Class 39.

Industrial Chemical Laboratories, Inc., Omaha, Nebr. Protective finish coatings. 579,004, Aug. 25; Serial No. 613,511, published June 9, 1953. Class 16.

Infilco Incorporated, Tucson, Ariz. Pneumatically operated instruments. 579,003, Aug. 25; Serial No. 612,863, published May 26, 1953. Class 26.

International Minerals & Chemical Corporation, Chicago, Ill. Natural cellulosic material. 579,128, Aug. 25; Serial No. 636,786, published June 2, 1953. Class 1.

International Paint Company, Inc., New York, N. Y. Ready-mixed paints and tinting colors. 579,012, Aug. 25; Serial No. 618,798, published June 2, 1953. Class 16.

Kasco Mills, Inc., Toledo, Ohio. Steer feeds. 579,090, Aug. 25; Serial No. 633,454, published May 26, 1953. Class 46.

Kay Manufacturing Corporation, Brooklyn, N. Y. Reclining chair mechanisms and parts therefor. 579,143, Aug. 25; Serial No. 637,448, published May 26, 1953. Class 32.

Key Manufacturing Co.: *See*—
Green, James X.

King Features Syndicate, Inc., to The Hearst Corporation, New York, N. Y. Newspaper columns. 307,247, renewed Oct. 17, 1953. O. G. Aug. 25. Class 38.

Klinke Hatchery: *See*—
Klinke, M. E.

Klinke, M. E., doing business as Klinke Hatchery, Madison, Wis. One-meal serving size ready-to-cook fresh frozen turkeys. 579,192, Aug. 25; Serial No. 641,059, published June 2, 1953. Class 46.

Kohnstamm, H., & Co., Inc., New York, N. Y. Food colors. 579,191, Aug. 25; Serial No. 640,940, published May 26, 1953. Class 46.

Kuppenheimer, B., & Co., Inc., Chicago, Ill. Men's and boys' ready to wear coats, vests, trousers, and overcoats. 307,127, renewed Oct. 17, 1953. O. G. Aug. 25. Class 39.

Kurfees Paint Company, Louisville, Ky. Thickener for thickening prepared or ready mixed liquid paints. 579,042, Aug. 25; Serial No. 625,424, published June 2, 1953. Class 16.

Laclede-Christy Company, St. Louis, Mo. Technical publication. 579,156, Aug. 25; Serial No. 638,423, published June 2, 1953. Class 38.

Laher Spring & Tire Corp., Oakland, Calif. Automobile springs. 579,170, Aug. 25; Serial No. 639,888, published June 2, 1953. Class 19.

Lally, R., Co., Evanston, Ill. Woven or knitted laundry and dry-cleaning bags. 578,983, Aug. 25; Serial No. 600,540, published June 2, 1953. Class 2.

Lambert Manufacturing Co., Trenton, N. J. Hand luggage. 579,029, Aug. 25; Serial No. 622,664, published June 9, 1953. Class 3.

Lamont, Corliss & Company, New York, N. Y., now by change of name and merger The Nestlé Company, Inc. Powdered cocoa-sugar mixture. 578,991, Aug. 25; Serial No. 605,661, published May 19, 1953. Class 46.

Larus & Brother Company, Richmond, Va. Cigarettes. 305,237, renewed Aug. 8, 1953. O. G. Aug. 25. Class 17.

Larus & Brother Company, Richmond, Va. Plug tobacco and cigarettes. 305,239, renewed Aug. 8, 1953. O. G. Aug. 25. Class 17.

Larus & Brother Company, Richmond, Va. Smoking tobacco. 305,257, renewed Aug. 8, 1953. O. G. Aug. 25. Class 17.

Larus & Brother Company, Richmond, Va. Cigarettes. 579,102, Aug. 25; Serial No. 638,801, published June 9, 1953. Class 17.

Larus & Brother Company, Richmond, Va. Tobacco and tobacco products. 579,196, Aug. 25; Serial No. 642,359, published June 2, 1953. Class 17.

Laughery, M. J., Company: *See*—
Hill, Norman W.

Levy, Moe, & Son, Inc., to The Manhattan Shirt Company, New York, N. Y. Men's suits, overcoats, etc. 385,002, Feb. 11, 1941. New certificate. O. G. Aug. 25. Class 39.

"Liberty Mills": *See*—
Burrus Mills, Incorporated.

Lucilles, Inc., Teaneck, N. J. Pencils. 579,083, Aug. 25; Serial No. 632,529, published Apr. 28, 1953. Class 37.

Locke Incorporated, Baltimore, Md., now by merger General Electric Company. Trade catalog. 578,977, Aug. 25; Serial No. 586,643, published June 2, 1953. Class 38.

Lockwedge International Incorporated: *See*—
Perth Shoe Company Limited.

Lorillard, P., Company, New York, N. Y. Cigarettes. 579,002, Aug. 25; Serial No. 629,115, published June 2, 1953. Class 17.

Lufkin Rule Company, The, Saginaw, Mich. Measuring tapes. 579,225, Aug. 25; Serial No. 624,092. Class 26.

Lummus Company, The, New York, N. Y. Construction of chemical plants and petroleum refining process units and associated equipment. 579,206, Aug. 25; Serial No. 630,849, published May 26, 1953. Class 103.

Macy, R. H., & Co., Inc., New York, N. Y. Men's tropical worsted suits. 300,195, renewed Sept. 12, 1953. O. G. Aug. 25. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Suits, and sweaters. 306,668, renewed Sept. 26, 1953. O. G. Aug. 25. Class 39.

Maison Jeurelle, Inc., Chicago, Ill., to Seventeen, Rye, N. Y. Perfume. 304,152, renewed June 20, 1953. O. G. Aug. 25. Class 51.

Mallard Pencil Co., Inc., The, Georgetown, Ky. Wood cased lead pencils. 579,020, Aug. 25; Serial No. 622,343, published Apr. 28, 1953. Class 37.

Manhattan Shirt Company: *See*—
Levy, Moe, & Son, Inc.

Manhattan Soap Company, Inc.: *See*—
Burke, Frank G.

Manufacture de Machines du Haut-Rhin, Mulhouse Bourtzwiller Haut-Rhin, France. Automatic lathes and machine tools. 579,065, Aug. 25; Serial No. 620,247, published Mar. 24, 1953. Class 23.

Marietta Paint & Color Co., The, Marietta, Ohio, to American-Marietta Company, Chicago, Ill. Water and wear resisting finish for interior walls, wood-work and furniture. 303,812, renewed June 6, 1953. O. G. Aug. 25. Class 16.

Marlin Firearms Company, The, New Haven, Conn. Rifles, pistols, machine guns, and barrels therefor. 579,235, Aug. 25; Serial No. 642,825. Class 9.

Melco Manufacturing Company, Chicago, Ill. Cigarette snuffers. 579,118, Aug. 25; Serial No. 636,023, published June 2, 1953. Class 8.

Mengel Company, The, Louisville, Ky. Flush doors. 579,222, Aug. 25; Serial No. 616,772. Class 12.

Meyer, R. N., Co.: *See*—
Meyer, Ruth N.

Meyer, Ruth N., doing business as R. N. Meyer Co., Beverly Hills, Calif. Food seasoning. 579,189, Aug. 25; Serial No. 640,865, published May 26, 1953. Class 46.

Miami Visitor Publishing Company, Inc., The: *See*—
Brown and Findelsen, Inc.

Middleby, Joseph, Jr. Inc., Boston, Mass. Glace cherries, marshmallows, fruit jellies, etc. 578,972, Aug. 25; Serial No. 553,968, published May 26, 1953. Class 46.

Miller and Rhoads, Incorporated, Richmond, Va. Boxed stationery, writing paper, carpet paper, etc. 579,031, Aug. 25; Serial No. 623,116, published Apr. 28, 1953. Class 37.

Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Rubber latex base paint. 579,044, Aug. 25; Serial No. 626,742, published June 2, 1953. Class 16.

Mobile Paint Manufacturing Co. of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Paint thinners, paint oils, and paint diluents. 579,078, Aug. 25; Serial No. 631,879, published June 2, 1953. Class 16.

Monark Silver King, Inc., Chicago, Ill. Bicycles. 579,053, Aug. 25; Serial No. 627,762, published June 2, 1953. Class 19.

Mullins Manufacturing Corporation, Salem and Warren, Ohio. Kitchen cabinets. 579,033, Aug. 25; Serial No. 623,668, published June 9, 1953. Class 32.

Nashua Corporation, Nashua, N. H. Adhesively conted paper tape. 579,121, Aug. 25; Serial No. 636,143, published June 2, 1953. Class 5.

National Acme Company, The, Cleveland, Ohio. Solenoid operated apparatus for registering the number of masses or things moving past a station, etc. 579,213, Aug. 25; Serial No. 582,797. Class 26.

National Cooperatives, Incorporated: *See*—
Union Oil Company.

National Silver Company, New York, N. Y. Stainless steel table cutlery. 578,985, Aug. 25; Serial No. 601,456, published Dec. 12, 1950. Class 23.

Nationwide Leather Products Corp., Los Angeles, Calif. Bottle caps. 579,109, Aug. 25; Serial No. 635,609, published May 19, 1953. Class 50.

Nestlé Company, Inc., The: *See*—
Lamont, Corliss & Company.

New York Association for the Blind, Inc., The, New York, N. Y. Mops. 578,992, Aug. 25; Serial No. 606,033, published Jan. 13, 1953. Class 29.

New York Feather Co., Inc., New York and Brooklyn, N. Y. Foam rubber bed pillows, cushions, throw pillows, etc. 579,159, Aug. 25; Serial No. 638,600, published June 9, 1953. Class 32.

New York Rubber Corporation, New York, N. Y. Inflatable boats and inflatable floats. 579,081, Aug. 25; Serial No. 632,307, published June 2, 1953. Class 19.

Norbest Turkey Growers Association, Salt Lake City, Utah. Frozen boned turkey. 579,019, Aug. 25; Serial No. 622,307, published May 19, 1953. Class 46.

Oakford Company, The, Peoria, Ill. Canned fruits, canned vegetables, canned berries, etc. 579,048, Aug. 25; Serial No. 627,402, published June 2, 1953. Class 46.

Oles, Floyd, Inc., Tacoma, Wash. Artificial fishing lures. 579,103, Aug. 25; Serial No. 635,195, published June 2, 1953. Class 22.

Otte, Otho M., doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Goods in the nature of individual articles and sets of articles of flatware. 579,022–5, Aug. 25; Serial Nos. 622,504–7, published May 5, 1953. Class 23.

Otte, Otho M., doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa. Goods in the nature of individual articles and sets of articles of flatware. 579,026–7, Aug. 25; Serial Nos. 622,509–10, published May 5, 1953. Class 23.

Ozonair Limited, Westminster, London, to Ozonair Limited, Kent, England. Electrical apparatus. 89,945, renewed Jan. 21, 1953. O. G. Aug. 25. Class 21.

Parker Rust Proof Company, Detroit, Mich. Phosphate coating composition. 579,116, Aug. 25; Serial No. 635,882, published June 9, 1953. Class 16.

Parkway Furniture Manufacturing Company, Lawrence, Mass. Couches, loveseats, and beds. 579,115, Aug. 25; Serial No. 635,784, published June 2, 1953. Class 32.

Pastificio Spiga Società Per Azioni: *See*—
S. A. Pastificio Nicola Delfino & Figli.

Patterson-Sargent Company, The, Cleveland, Ohio. Ready-mixed paints. 579,167, Aug. 25; Serial No. 639,240, published June 9, 1953. Class 16.

Peavey Manufacturing Company, The, Oakland, Maine. Axes, bark spuds; axe and hatchet cases; etc. 578,970, Aug. 25; Serial No. 538,036, published May 5, 1953. Class 23.

Pell-Barl Farms, Inc., Woodstock, Ill. Grain seeds; field seeds. 579,129, Aug. 25; Serial No. 636,797, published June 2, 1953. Class 1.

Permatex Company, Inc., Brooklyn, N. Y. Automobile polishes and furniture polishes. 307,701, renewed Oct. 31, 1953. O. G. Aug. 25. Class 4.

Perth Shoe Company Limited, Perth, Ontario, Canada, to Lockwedge International Incorporated, Columbus, Ohio. Boots, shoes, slippers, and sandals. 301,752, renewed Mar. 14, 1953. O. G. Aug. 25. Class 39.

Petrak, Rudolf, Greenwich, Conn. Grooved phonograph records. 579,082, Aug. 25; Serial No. 632,324, published June 9, 1953. Class 36.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Chemotherapeutic agents and antibiotics. 579,229, Aug. 25; Serial No. 631,402. Class 18.

Phillips Seafood Packing Company, Bivalve, N. J. Fresh canned seafood. 579,021, Aug. 25; Serial No. 622,352, published May 19, 1953. Class 46.

Photographic Importing & Distributing Corporation, Valley Stream, N. Y. Lenses and the carrying cases thereof. 579,107, Aug. 25; Serial No. 635,505, published June 2, 1953. Class 26.

Plant Marvel Laboratories: *See*—
Slater, Joseph D.

Plas-Trix Company, The, Brooklyn, N. Y. Shifting block puzzles. 578,989, Aug. 25; Serial No. 602,628, published June 2, 1953. Class 22.

Pocket Books, Inc., New York, N. Y. Books. 579,157, Aug. 25; Serial No. 638,437, published June 2, 1953. Class 38.

Poll, Lectra M., Sula, Mont. Hot cake flour. 579,171, Aug. 25; Serial No. 639,655, published May 26, 1953. Class 46.

Ponce Candy Industries, Ponce, P. R. Candy. 579,051, Aug. 25; Serial No. 627,459, published May 19, 1953. Class 46.

Potash Rock Co. of America, Lithonia, Ga. Crushed granite soil conditioner. 579,113, Aug. 25; Serial No. 635,716, published May 26, 1953. Class 10.

Powers, John Robert, Products Co., Inc., Wilmington, Del., and New York, N. Y. Apparatus in the nature of a scope containing means for providing a color standard and a color sample, etc. 579,108, Aug. 25; Serial No. 635,566, published June 2, 1953. Class 26.

Price-Driscoll Corporation, New York, N. Y. Portable gasoline can. 579,124, Aug. 25; Serial No. 636,652, published June 9, 1953. Class 2.

Pulger, Bonfigt & Co.: *See*—
Bonfigt, Franz.

Puritan Piece Dye Works, Paterson, N. J. Cotton, rayon acetate, silk, etc., and jute piece goods. 370,437, Aug. 29, 1939; republished Aug. 25, 1953. Class 42.

Quyle, Martin E., Stockton, Calif. Artificial fish-lures. 579,151, Aug. 25; Serial No. 638,100, published June 2, 1953. Class 22.

Rarolite Chemical Co., Inc., Raritan, N. J. Printing inks. 579,151, Aug. 25; Serial No. 838,100, published June 2, 1953. Class 11.

Red Devil Tools: *See*—
Hubbard & McClary.

Reflectone Corporation, The, Stamford, Conn. Furniture. 579,152, Aug. 25; Serial No. 638,102, published June 9, 1953. Class 32.

Reinhardt, Agathe: *See*—
Häsemann, Georg.

Re-Ly-On Products Company, Pittsburgh, Pa. Inner spring mattresses. 579,123, Aug. 25; Serial No. 636,608, published June 2, 1953. Class 32.

Remington Arms Company, Inc., Bridgeport, Conn. Ammunition. 579,139, Aug. 25; Serial No. 637,330, published May 19, 1953. Class 9.

Rich Products Corp., Buffalo, N. Y. Liquid food preparation. 579,212, Aug. 25; Serial No. 551,588. Class 46.

Robinson, Perry, Corporation, The, to Lawrence R. Bradley, New York, N. Y. Chemical composition, used as a vehicle for paints, and/or in conjunction with other vehicles, etc. 301,945, renewed Mar. 21, 1953. O. G. Aug. 25. Class 16.

Rodgers, Ralph, White Plains, N. Y. Brief bags and cases. 579,001, Aug. 25; Serial No. 611,742, published June 2, 1953. Class 3.

Rosewell Floral Company, The, Lincoln, Nebr. Liquid plant food. 579,144, Aug. 25; Serial No. 637,503, published May 26, 1953. Class 10.

Rothenberg & Schloss Cigar Company, Kansas City, Mo. Pipe tobacco. 579,150, Aug. 25; Serial No. 637,951, published June 9, 1953. Class 17.

Royal Allegheny Metal Wares: *See*—
Otte, Otho M.

Rundle, George H., Company, The, Piqua, Ohio. Remedy for constipation. 91,802, re-renewed May 27, 1953. O. G. Aug. 25. Class 18.

S. A. Latterie Industriali Riunite L. I. R., Robbio, Lomellina, Italy. Cheese. 578,974, Aug. 25; Serial No. 563,308, published May 26, 1953. Class 46.

S. A. Pastificio Nicola Delfino & Figli, Pescara-Riviera di Castellamare, to Pastificio Spiga Società Per Azioni, Pescara, Italy. Alimentary pastes. 303,254, renewed May 16, 1953. O. G. Aug. 25. Class 46.

Sauter, Alfred E., doing business as Sauter Brothers, New York, N. Y., to The Stadium Manufacturing Company, Incorporated, Baltimore Md. Infants' and children's pajamas. 305,554, renewed Aug. 22, 1953. O. G. Aug. 25. Class 39.

Sauter Brothers: *See*—
Sauter, Alfred E.

Sauter, C. Albert, Company, Inc., Philadelphia, Pa. Paper boxes. 579,226, Aug. 25; Serial No. 624,901. Class 2.

Selector Company: *See*—
Hencock, Lee F., Jr.

Selector Production Corporation, assignee: *See*—
Hencock, Lee F., Jr.

Selmer, H. & A., Inc., Elkhart, Ind. Twirling batons. 579,068, Aug. 25; Serial No. 629,525, published June 9, 1953. Class 36.

Semans, Thomas B., Jr., Philadelphia, Pa. Golf balls. 579,236, Aug. 25; Serial No. 645,077. Class 22.

Seminole Flavor Company, Chattanooga, Tenn. Carbonated, nonalcoholic, non-cereal, maltless beverages, and flavoring therefor. 389,082, Aug. 19, 1941. Republished Aug. 25. Class 45.

Seventeen: *See*—
Maison Jeunelle, Inc.

Shaw, T. A., & Co.: *See*—
Shaw, T. A., and Co.

Shaw, T. A., and Co., to T. A. Shaw & Co., Chicago, Ill. Cotton piece goods. 88,792, re-renewed Oct. 22, 1952. O. G. Aug. 25. Class 42.

Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Parts for fountain pens, mechanical pencils and ball point pens. 579,096, Aug. 25; Serial No. 634,552, published Apr. 28, 1953. Class 37.

Shuron Optical Company, Inc., Geneva, N. Y. Bridges for ophthalmic mountings. 579,164, Aug. 25; Serial No. 638,917, published June 2, 1953. Class 26.

Shuron Optical Company, Inc., Geneva, N. Y. Bridges for ophthalmic mountings. 579,165, Aug. 25; Serial No. 638,920, published June 2, 1953. Class 26.

Slater, Joseph D., doing business as Plant Marvel Laboratories, Chicago, Ill. Fertilizers. 579,140–1, Aug. 25; Serial Nos. 637,337–8, published June 2, 1953. Class 10.

Slater, Joseph D., doing business as Plant Marvel Laboratories, Chicago, Ill. Plant foods. 579,160, Aug. 25; Serial No. 638,740, published June 2, 1953. Class 10.

Smith, Albert L., doing business as Smith Tape Recording Co., Abilene, Tex. Magnetic recording tape. 579,221, Aug. 25; Serial No. 614,963. Class 21.

Smith, Roy L., doing business as Smith's Furniture Company, Corinth, Miss. Mattresses. 579,117, Aug. 25; Serial No. 635,934, published June 2, 1953. Class 32.

Smith, Samuel M., doing business as Galesburg Vault Company, Galesburg, Ill. Burial vaults. 579,102, Aug. 25; Serial No. 635,151, published June 2, 1953. Class 2.

Smith Tape Recording Co.: *See*—
Smith, Albert L.

Smith's Furniture Company: *See*—
Smith, Roy L.

Snellenburgs: *See*—
Bankers Securities Corporation.

Société Civile; Marep, Grosshans, Oller (M. G. O.), Paris, France. Pressure fluid motors, internal combustion motors, jet motors, etc. 579,146, Aug. 25; Serial No. 637,552, published May 5, 1953. Class 23.

Southern Mills, Atlanta, Ga. Cotton fabric cut to size as used on ironer rolls, cotton knitted padding for flat work ironer rolls, etc. 579,061, Aug. 25; Serial No. 629,063, published June 9, 1953. Class 24.

Specholder Sales Company, Inc., Allendale, N. J. Holder for eyeglasses attachable to a supporting surface. 579,219, Aug. 25; Serial No. 612,143. Class 26.

Spencer Chemical Company, Kansas City, Mo. Ammonium nitrate fertilizer. 579,060, Aug. 25; Serial No. 628,584, published June 2, 1953. Class 10.

Spencer Chemical Company, Kansas City, Mo. Ammonium nitrate fertilizer. 579,004, Aug. 25; Serial No. 629,221, published June 2, 1953. Class 10.

Spin-Dex, Inc., Skokie, Ill. Rotary card files. 579,073, Aug. 25; Serial No. 630,859, published May 12, 1953. Class 32.

Spiro, Irving M., doing business as Statile Waterproofing Co., Palisades Park, N. J. Waterproofing materials. 579,233, Aug. 25; Serial No. 634,386. Class 6.

Stadium Manufacturing Company, Incorporated, The: *See*—
Sauter, Alfred E.

Standard Blade Co., Inc.: *See*—
Standard Safety Razor Corporation.



Standard Brands Incorporated: *See*—
Standard Nut Margarine Co.

Standard Nut Margarine Co., Indianapolis, Ind., to Standard Brands Incorporated, New York, N. Y. Oleomargarine. 303,472, renewed May 23, 1953. O. G. Aug. 25. Class 46.

Standard Nut Margarine Co., Indianapolis, Ind., to Standard Brands Incorporated, New York, N. Y. Oleomargarine. 303,608, renewed June 6, 1953. O. G. Aug. 25. Class 46.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Asphalt. 93,566, re-renewed Sept. 23, 1953. O. G. Aug. 25. Class 12.

Standard Oil Company, Whiting, Ind., to Standard Oil Company, Whiting, Ind., and Chicago, Ill. Petroleum-pitch. 93,770, re-renewed Oct. 14, 1953. O. G. Aug. 25. Class 1.

Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn., to Standard Blade Co., Inc., New York, N. Y. Razors and razor blades. 304,241, renewed June 27, 1953. O. G. Aug. 25. Class 23.

Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn., to Standard Blade Co., Inc., New York, N. Y. Razors and razor blades. 304,301–2, renewed June 27, 1953. O. G. Aug. 25. Class 23.

Stanolind Oil and Gas Company, Tulsa, Okla. Oil-well services. 579,202, Aug. 25; Serial No. 611,815, published June 2, 1953. Class 100.

Star Company to The Hearst Corporation, New York, N. Y. Newspaper section. 94,215, re-renewed Nov. 11, 1953. O. G. Aug. 25. Class 38.

Stationers' Guild of America, Philadelphia, Pa. Filing trays, stands for filing trays and filing cabinets. 579,034, Aug. 25; Serial No. 623,687, published June 2, 1953. Class 32.

Statile Waterproofing Co.: *See*—
Spiro, Irving M.

Steinen, Wm., Mfg. Company, Newark, N. J. Telescoping inspection mirrors. 579,148, Aug. 25; Serial No. 637,869, published May 5, 1953. Class 23.

Sterilometer Laboratories, to Sterilometer Laboratories, Los Angeles, Calif. Controls comprising a pyro-recording composition. 300,401, renewed Jan. 17, 1953. O. G. Aug. 25. Class 26.

Stevens Research Company, Dearborn, Mich. Variable speed transmissions. 578,976, Aug. 25; Serial No. 582,325, published May 5, 1953. Class 23.

Strike Master, Inc., Minneapolis, Minn. Fishing leaders. 570,075, Aug. 25; Serial No. 630,970, published June 2, 1953. Class 22.

Sturgis Posture Chair Company, Sturgis, Mich. Chairs. 579,074, Aug. 25; Serial No. 630,860, published June 9, 1953. Class 32.

Sweden Freezer Company: *See*—
Sweden Freezer Manufacturing Company.

Sweden Freezer Manufacturing Company, also doing business under the name of Sweden Freezer Company, Seattle, Wash. Ice milk and ice milk powder. 578,975, Aug. 25; Serial No. 580,757, published May 26, 1953. Class 46.

Taylor Brothers, Inc., Winston-Salem, N. C. Plug, twist, and smoking tobacco. 578,968, Aug. 25; Serial No. 525,449, published Oct. 30, 1951. Class 17.

Televisor Co.: *See*—
Zworn, Charles W.

Timken Roller Bearing Company, The, Canton, Ohio. Turned and bored steel bars. 579,163, Aug. 25; Serial No. 638,820, published June 9, 1953. Class 14.

Tin Pan Alley, Inc., New York, N. Y. Grooved phonograph records. 579,054, Aug. 25; Serial No. 627,850, published June 9, 1953. Class 36.

Tolfree, Edward R., doing business as "X" Laboratories, to "X" Laboratories, Inc., New York, N. Y. Dry cleaner. 303,870–1, renewed June 13, 1953. O. G. Aug. 25. Class 52.

Traficante, Minneapolis, Minn. Accordions. 579,035, Aug. 25; Serial No. 628,069, published June 9, 1953. Class 36.

Union Carbide and Carbon Corporation: *See*—
Union Carbide Company.

Union Carbide Company, Chicago, Ill., and New York, N. Y., to Union Carbide and Carbon Corporation, New York, N. Y. Calcium carbide. 41,253, re-renewed Oct. 6, 1953. O. G. Aug. 25. Class 6.

Union Oil Company, Parsons, Kans., and North Kansas City, Mo., to National Cooperatives, Incorporated, Chicago, Ill. Storage (wet cell) batteries. 303,450, renewed May 23, 1953. O. G. Aug. 25. Class 21.

United Biscuit Company of America, Chicago, Ill. Cookies and crackers. 579,086–9, Aug. 25; Serial Nos. 633,180–3, published June 2, 1953. Class 46.

United Hosiery Mills Corporation, Chattanooga, Tenn. Hosiery. 307,155, renewed Oct. 17, 1953. O. G. Aug. 25. Class 39.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics or the like. 579,209, Aug. 25; Serial No. 637,508, published June 2, 1953. Class 106.

U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Reclaimed rubber. 579,126, Aug. 25; Serial No. 636,753, published June 2, 1953. Class 1.

Vacuum Metals Corporation, Cambridge, Mass. Iron, steel, and iron base alloys. 579,132, Aug. 25; Serial No. 637,096, published June 9, 1953. Class 14.

Valley Evaporating Company, Yakima, Wash. Dehydrated fruits, jams, jellies, fruit preserves, etc. 579,099, Aug. 25; Serial No. 634,668, published May 26, 1953. Class 46.

Vegetable Oil Products Company, Inc., Wilmington, Calif. Vegetable shortening. 270,159, Apr. 29, 1930. Republished Aug. 25. Class 46.

Velvet Freeze, Inc., St. Louis, Mo. Pre-packed and bulk ice cream. 579,010, Aug. 25; Serial No. 618,437, published May 26, 1953. Class 46.

Victorius, A. V., & Co., Inc., to Elting Brothers, Inc., New York, N. Y. Men's, women's, and children's hosiery. 304,789, renewed July 18, 1953. O. G. Aug. 25. Class 39.

Visual Department Church of Prophecy Marker Association, Cleveland, Tenn. Motion picture films. 579,119, Aug. 25; Serial No. 636,102, published May 26, 1953. Class 20.

Vita-Var Corporation, Newark, N. J. Ready-mixed paints, enamels, and varnishes. 579,017, Aug. 25; Serial No. 620,701, published June 2, 1953. Class 16.

Vulcan Corporation, Portsmouth, Ohio. Shoe laats. 579,059, Aug. 25; Serial No. 628,511, published May 12, 1953. Class 50.

Wm. Bros Boiler & Manufacturing Co., Minneapolis, Minn. Pneumatic tired road rollers. 579,036, Aug. 25; Serial No. 623,862, published May 5, 1953. Class 23.

Wacker-Chemie G. m. b. H.: *See*—
Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H.

Wacker, Dr. Alexander, Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H. Laundry appliances. 579,094, Aug. 25; Serial No. 633,814, published June 9, 1953. Class 24.

Wade, Wenger & Associates, Inc., Chicago, Ill. General cleaning services. 579,205, Aug. 25; Serial No. 628,799, published June 2, 1953. Class 103.

Ward Baking Company, New York, N. Y. Bread, rolls, biscuits, etc. 93,139, re-renewed Aug. 19, 1953. O. G. Aug. 25. Class 46.

Weideman Company, The, Cleveland, Ohio. Cigars. 579,046, Aug. 25; Serial No. 627,156, published May 19, 1953. Class 17.

Western Tablet & Stationery Corporation, Dayton, Ohio. Account, data, and order books. 578,969, Aug. 25; Serial No. 526,147, published Apr. 14, 1953. Class 37.

Western Tablet & Stationery Corporation, Dayton Ohio. Papeteries. 578,973, Aug. 25; Serial No. 558,333, published Apr. 28, 1953. Class 37.

Weston Dodson & Company, Incorporated, Bethlehem, Pa. Coal. 579,125, Aug. 25; Serial No. 636,667, published June 2, 1953. Class 1.

Whitewater Raincoat Co., Whitewater, Wis. Transparent covers. 579,016, Aug. 25; Serial No. 620,448, published May 12, 1953. Class 50.

Wildroot Company, Inc., Buffalo, N. Y. Shampoo. 579,181, Aug. 25; Serial No. 640,316, published June 2, 1953. Class 52.

Wilkins, John H., Company, Washington, D. C. Coffee. 300,478, renewed Jan. 24, 1953. O. G. Aug. 25. Class 46.

Williams, R. O., Co.: *See*—
Williams, Robert O.

Williams, Robert O., doing business under the name of R. O. Williams Co., Evansville, Ind. Pest extermination service. 579,207, Aug. 25; Serial No. 634,228, published May 26, 1953. Class 103.

Wilson Jones Company, Chicago, Ill. Loose leaf binders. 579,122, Aug. 25; Serial No. 636,364, published Apr. 21, 1953. Class 37.

Winebrenner, D. E., Company, Inc., Hanover, Pa. Canned vegetables, and canned vegetable juices. 579,007, Aug. 25; Serial No. 615,429, published May 26, 1953. Class 46.

Winston, John C., Company, The, Philadelphia, Pa. Books. 579,114, Aug. 25; Serial No. 635,731, published June 2, 1953. Class 38.

Wizard, Inc., Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. Insecticides. 304,280, renewed June 27, 1953. O. G. Aug. 25. Class 6.

Woburn Chemical Corp. (N. J.), Harrison, N. J. Ingredient for paints, varnishes, enamels, or coating composition. 578,993, Aug. 25; Serial No. 606,354, published June 2, 1953. Class 16.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Bone meal and dehydrated poultry and cow manure for use as fertilizers. 579,134, Aug. 25; Serial No. 637,221, published June 2, 1953. Class 10.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Bone meal and dehydrated poultry and cow manure for use as fertilizers. 579,135, Aug. 25; Serial No. 637,224, published June 2, 1953. Class 10.

Wong, Howard, doing business as European Coast Chemical House, New York, N. Y. Bone meal and dehydrated poultry and cow manure for use as fertilizers. 579,147, Aug. 25; Serial No. 637,558, published June 2, 1953. Class 10.

Wright and Company, Incorporated, Worcester, Mass. Card index file cabinet. 579,104, Aug. 25; Serial No. 635,210, published June 2, 1953. Class 32.

"X" Laboratories: *See*—
Tolfree, Edward R.
"X" Laboratories, Inc.: *See*—
Tolfree, Edward R.
Ziff-Davis Publishing Company, New York, N. Y. Section of a magazine. 579,158, Aug. 25; Serial No. 638,562, published June 2, 1953. Class 38.
Zwirn, Charles W., doing business under the name and style of Televisor Co., New York, N. Y. Moving picture screens and slides. 579,214, Aug. 25; Serial No. 596,766. Class 26.
Zylite Products Co., Inc., New York, N. Y. Eyeglass frames. 579,063, Aug. 25; Serial No. 629,139, published June 2, 1953. Class 26.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED

## CLASS 1

Coal. Ben Hur Coal Co. Inc. 579,097, Aug. 25; Serial No. 634,569, published June 2, 1953.
Coal. Weston Dodson & Company, Incorporated. 579,125, Aug. 25; Serial No. 636,667, published June 2, 1953.
Internal parting agent. Garan Chemical Corporation. 579,093, Aug. 25; Serial No. 634,407, published June 2, 1953.
Natural cellulosic material. International Minerals & Chemical Corporation. 579,128, Aug. 25; Serial No. 636,786, published June 2, 1953.
Natural, synthetic rubber, or rubberlike powder or pellets. General Latex & Chemical Corporation. 579,105, Aug. 25; Serial No. 635,361, published June 2, 1953.
Petroleum-pitch. Standard Oil Company. 93,770, re-renewed Oct. 14, 1953. O. G. Aug. 25.
Reclaimed rubber. U. S. Rubber Reclaiming Company, Inc. 579,126, Aug. 25; Serial No. 636,753, published June 2, 1953.
Seeds, Grain; field seeds. Pell-Barl Farms, Inc. 579,129, Aug. 25; Serial No. 636,707, published June 2, 1953.

## CLASS 2

Bags. Bemis Bro. Bag Company. 579,039, Aug. 25; Serial No. 624,994, published June 9, 1953.
Bags, Woven or knitted laundry and dry-cleaning. K. Lally Co. 578,983, Aug. 25; Serial No. 600,540, published June 2, 1953.
Boxes, Collapsible cardboard and paper. Crook Paper Box Company. 579,091, Aug. 25; Serial No. 633,609, published June 9, 1953.
Boxes, Paper. C. Albert Sauter Company, Inc. 579,226, Aug. 25; Serial No. 624,901.
Can. Portable gasoline. Price-Driscoll Corporation. 579,124, Aug. 25; Serial No. 636,652, published June 9, 1953.
Container units. Dempster Brothers, Incorporated. 579,231, Aug. 25; Serial No. 631,979.
Containers, Empty refillable valved pressure. Fount-Wip, Inc. 579,215, Aug. 25; Serial No. 596,908.
Crates, Fruit. O. J. Briggs Lumber Company. 579,100, Aug. 25; Serial No. 640,907, published June 9, 1953.
Dishes, Table. Cardinal China Co. 579,230, Aug. 25; Serial No. 631,464.
Dispensing cabinets. Crown Zellerbach Corporation. 579,069, Aug. 25; Serial No. 629,889, published June 9, 1953.
Receptacles. Cincinnati Industries Inc. 579,101, Aug. 25; Serial No. 635,026, published June 2, 1953.
Spice racks, napkin holders, and salt and pepper sets. Dapol Plastics, Inc. 579,127, Aug. 25; Serial No. 636,777, published June 2, 1953.
Vaults, Burial. S. M. Smith. 579,102, Aug. 25; Serial No. 635,151, published June 2, 1953.

## CLASS 3

Brief bags and cases. R. Rodgers. 579,001, Aug. 25; Serial No. 611,742, published June 2, 1953.
Luggage, Hand. Lambert Manufacturing Co. 579,029, Aug. 25; Serial No. 622,664, published June 9, 1953.

## CLASS 4

Polishes, Automobile, and furniture polishes. Permatex Company, Inc. 307,701, renewed Oct. 31, 1953. O. G. Aug. 25.

## CLASS 5

Adhesively coated paper tape. Nashua Corporation. 579,121, Aug. 25; Serial No. 636,143, published June 2, 1953.
Adhesives. Farbenfabriken Bayer. 579,085, Aug. 25; Serial No. 633,149, published June 2, 1953.
Adhesives, Rubber base liquid. Copydex Manufacturing Co. Ltd. 579,006, Aug. 25; Serial No. 614,492, published June 2, 1953.
Ingredient for addition to adhesive cements. Crag Products, Inc. 579,037, Aug. 25; Serial No. 624,026, published June 2, 1953.

## CLASS 6

Calcium carbid. Union Carbide Company. 41,253, re-renewed Oct. 6, 1953. O. G. Aug. 25.
Fumigant. Ferguson Fumigants, Inc. 579,234, Aug. 25; Serial No. 636,635.
Insecticides. Wizard, Inc. 304,280, renewed June 27, 1953. O. G. Aug. 25.
Preparation for exterminating rodents. The C. B. Dolge Company. 305,415, renewed Aug. 15, 1953. O. G. Aug. 25.
Shaving cream and skin salve. Claro Laboratories. 433,402, Oct. 14, 1947. Republished Aug. 25.
Waterproofing materials. I. M. Spiro. 579,233, Aug. 25; Serial No. 634,386.

## CLASS 8

Cigarette snuffers. Melco Manufacturing Company. 579,118, Aug. 25; Serial No. 636,023, published June 2, 1953.
Lighters, Cigarette. General Motors Corporation. 579,166, Aug. 25; Serial No. 639,033, published June 2, 1953.

## CLASS 9

Ammunition. Remington Arms Company, Inc. 579,139, Aug. 25; Serial No. 637,330, published May 19, 1953.
Rifles, pistols, machine guns, and barrels therefor. The Marlin Firearms Company. 579,235, Aug. 25; Serial No. 642,825.

## CLASS 10

Bone meal and dehydrated poultry and cow manure for use as fertilizers. H. Wong. 579,134, Aug. 25; Serial No. 637,221, published June 2, 1953.
Bone meal and dehydrated poultry and cow manure for use as fertilizers. H. Wong. 579,135, Aug. 25; Serial No. 637,224, published June 2, 1953.
Bone meal and dehydrated poultry and cow manure for use as fertilizers. H. Wong. 579,147, Aug. 25; Serial No. 637,558, published June 2, 1953.
Fertilizer, Ammonium nitrate. Spencer Chemical Company. 579,060, Aug. 25; Serial No. 628,584, published June 2, 1953.
Fertilizer, Ammonium nitrate. Spencer Chemical Company. 579,064, Aug. 25; Serial No. 629,221, published June 2, 1953.
Fertilizers. J. D. Slater. 579,140–1, Aug. 25; Serial Nos. 637,337–8, published June 2, 1953.
Plant food, Liquid. The Rosewell Floral Company. 579,144, Aug. 25; Serial No. 637,593, published May 26, 1953.
Plant foods. J. D. Slater. 579,160, Aug. 25; Serial No. 638,746, published June 2, 1953.
Soil conditioner, Crushed granite. Potash Rock Co. of America. 579,113, Aug. 25; Serial No. 635,716, published May 26, 1953.

## CLASS 11

Inks, Printing. Rarolite Chemical Co., Inc. 579,151, Aug. 25; Serial No. 638,100, published June 2, 1953.
Typewriter ribbons and carbon paper. The Buckeye Ribbon & Carbon Co. 578,998, Aug. 25; Serial No. 608,747, published June 2, 1953.

## CLASS 12

Asphalt. Standard Oil Company. 93,560, re-renewed Sept. 23, 1953. O. G. Aug. 25.
Cementitious material for stack construction and repair. Cement-Gun Company, Inc. 308,005, renewed Nov. 14, 1953. O. G. Aug. 25.
Doors, Flush. The Mengel Company. 579,222, Aug. 25; Serial No. 616,772.

## CLASS 13

Screen wire-cloth. American Wire Fabrics Company 93,658, re-renewed Oct. 14, 1953. O. G. Aug. 25.
Wire screening. American Wire Fabrics Corporation. 307,236, renewed Oct. 17, 1953. O. G. Aug. 25.

## CLASS 14

Aluminum foil. Follrapp, Inc. 579,154–5, Aug. 25; Serial Nos. 638,251–2, published June 9, 1953.
Iron, steel, and iron base alloys. Vacnum Metals Corporation. 579,132, Aug. 25; Serial No. 637,096, published June 9, 1953.
Steel. Crucible Steel Company of America. 579,197, Aug. 25; Serial No. 642,624, published June 2, 1953.
Steel bars, Turned and bored. The Timken Roller Bearing Company. 579,163, Aug. 25; Serial No. 638,820, published June 9, 1953.

## CLASS 16

Chemical composition in the form of a coating. Chrome-Tec Distributing Company. 579,041, Aug. 25; Serial No. 625,340, published June 9.
Chemical composition, used as a vehicle for paints, and/or in conjunction with other vehicles, etc. The Perry Robinson Corporation. 301,945, renewed Mar. 21, 1953. O. G. Aug. 25.
Coating composition, Phosphate. Parker Rust Proof Company. 579,116, Aug. 25; Serial No. 635,882, published June 9, 1953.
Coating compositions, Metal-surface. Center Chemical Corporation. 579,056, Aug. 25; Serial No. 628,191, published June 9, 1953.
Coatings, Protective finish. Industrial Chemical Laboratories, Inc. 579,004, Aug. 25; Serial No. 613,511, published June 9, 1953.
Ingredients for paints, varnishes, enamels or coating compositions. Woburn Chemical Corp. 578,993, Aug. 25; Serial No. 606,354, published June 2, 1953.
Lacquers and paints. Dupli-Color Products Company, Inc. 579,047, Aug. 25; Serial No. 627,256, published June 2, 1953.
Liquid synthetic rubber preparation which is adapted to be applied to a surface to form a rubber coating thereon. The Atlas Mineral Products Company of Pennsylvania. 579,058, Aug. 25; Serial No. 628,250, published June 9, 1953.
Paint. The Debevoise Company. 579,120, Aug. 25; Serial No. 636,119, published June 2, 1953.
Paint, Ready mixed house, paint and/or baking enamel, varnish, etc. Baltimore Paint & Color Works. 578,971, Aug. 25; Serial No. 547,606, published June 9, 1953.
Paint, Rubber latex base. Mobile Paint Manufacturing Company of Delaware, Inc. 579,044, Aug. 25; Serial No. 626,742, published June 2, 1953.
Paint thinners, paint oils, and paint diluents. Mobile Paint Manufacturing Co. of Delaware, Inc. 579,078, Aug. 25; Serial No. 631,879, published June 2, 1953.
Paints, Ready-mixed. The Patterson-Sargent Company. 579,107, Aug. 25; Serial No. 639,240, published June 9, 1953.
Paints, Ready-mixed, and tinting colors. International Paint Company, Inc. 579,012, Aug. 25; Serial No. 618,798, published June 2, 1953.
Paints, Ready-mixed, enamels, and varnishes. Vita-Var Corporation. 579,017, Aug. 25; Serial No. 620,701, published June 2, 1953.
Paints, Ready mixed oil, paint enamels and varnishes. The Harrison Paint & Varnish Company. 578,996, Aug. 25; Serial No. 607,673, published June 2, 1953.
Thickener for thickening prepared or ready mixed liquid paints. Kurfees Paint Company. 579,042, Aug. 25; Serial No. 625,424, published June 2, 1953.
Varnish. Gilman Paint and Varnish Company. 578,997, Aug. 25; Serial No. 607,897, published June 2, 1953.
Water and wear resisting finish for interior walls, woodwork and furniture. The Marietta Paint & Color Co. 303,812, renewed June 6, 1953. O. G. Aug. 25.

## CLASS 17

Cigarettes. Larus & Brother Company. 305,237, renewed Aug. 8, 1953. O. G. Aug. 25.
Cigarettes. Larus & Brother Company. 579,162, Aug. 25. Serial No. 638,801, published June 9, 1953.
Cigarettes. P. Lorillard Company. 579,062, Aug. 25; Serial No. 629,115, published June 2, 1953.
Cigars. Fernandez, Pallcio y Compañía, S. en C. 307,755, renewed Oct. 31, 1953. O. G. Aug. 25.
Cigars. Goldblatt Bros., Inc. 303,957, renewed June 13, 1953. O. G. Aug. 25.
Cigars. The Weideman Company. 579,046, Aug. 25; Serial No. 627,156, published May 19, 1953.
Tobacco and tobacco products. Larus & Brother Company. 579,196, Aug. 25; Serial No. 642,350, published June 2, 1953.
Tobacco, Pipe. Rothenberg & Schloss Cigar Company. 579,150, Aug. 25; Serial No. 637,951, published June 9, 1953.
Tobacco, Ping, and cigarettes. Larus & Brother Company. 305,239, renewed Aug. 8, 1953. O. G. Aug. 25.
Tobacco, Plug, twist, and smoking. Taylor Brothers, Inc. 578,968, Aug. 25; Serial No. 525,449, published Oct. 30, 1951.
Tobacco, Smoking. Larus & Brother Company. 305,257, renewed Aug. 8, 1953. O. G. Aug. 25.

## CLASS 18

Chemotherapeutic agents and antibiotics. Chas. Pfizer & Co., Inc. 579,229, Aug. 25; Serial No. 631,402.
Cod-liver oil. P. Devold. 40,681, re-renewed June 30, 1953. O. G. Aug. 25.
Medicine for external human use. G. Häsemann. 304,992, renewed July 25, 1953. O. G. Aug. 25.
New Bacteriological peptone. Difco Laboratories Incorporated. 296,341, renewed Aug. 2, 1952. O. G. Aug. 25.
Remedy for constipation. The George H. Rundle Company. 91,802, re-renewed May 27, 1953. O. G. Aug. 25.

## CLASS 19

Automobile springs. Laher Spring & Tire Corp. 579,176, Aug. 25; Serial No. 639,888, published June 2, 1953.
Automobiles and structural parts thereof, Passenger. Ford Motor Company Limited. 579,110, Aug. 25; Serial No. 635,038, published May 19, 1953.
Automobiles and structural parts thereof, Passenger. Ford Motor Company Limited. 579,111–12, Aug. 25; Serial Nos. 635,039–40, published May 26, 1953.
Bicycles. The Cleveland Welding Company. 579,216, Aug. 25; Serial No. 598,354.
Bicycles. Monark Silver King, Inc. 579,053, Aug. 25; Serial No. 627,762, published June 2, 1953.
Boats, Inflatable, and inflatable floats. New York Rubber Corporation. 579,081, Aug. 25; Serial No. 632,307, published June 2, 1953.
Seat covers for automobiles and boats. Glostex Products, Inc. 579,142, Aug. 25; Serial No. 637,437, published June 2, 1953.
Wire wheel discs for automotive vehicles. Gaylord-Shelton, Inc. 579,198–9, Aug. 25; Serial Nos. 642,966–7, published June 2, 1953.

## CLASS 20

Floor and wall coverings, Flexible. Congoleum-Nairn Inc. 579,092–3, Aug. 25; Serial Nos. 633,664–5, published June 9, 1953.

## CLASS 21

Batteries, Storage (wet cell). Union Oil Company. 303,450, renewed May 23, 1953. O. G. Aug. 25.
Electrical apparatus. Ozonair Limited. 89,945, re-renewed Jan. 21, 1953. O. G. Aug. 25.
Electrical control apparatus. Associated Patentees, Inc. 579,218, Aug. 25; Serial No. 605,838.
Magnetic recording tape. A. L. Smith. 579,221, Aug. 25; Serial No. 614,963.

## CLASS 22

Dolls. Alexander Doll Company, Inc. 579,057, Aug. 25; Serial No. 628,247, published June 2, 1953.
Fish-lures, Artificial. M. E. Quyle. 579,100, Aug. 25; Serial No. 634,760, published June 2, 1953.
Fishing boxes. E. J. Herbert. 579,028, Aug. 25; Serial No. 622,541, published June 2, 1953.
Fishing leaders. Strike Master, Inc. 579,075, Aug. 25; Serial No. 630,970, published June 2, 1953.
Fishing lures, Artificial. Floyd Oles, Inc. 579,103, Aug. 25; Serial No. 635,195, published June 2, 1953.
Golf balls. T. B. Semans, Jr. 579,236, Aug. 25; Serial No. 645,077.
Golf clubs. The Associated Merchandising Corporation. 579,194, Aug. 25; Serial No. 641,894, published June 2, 1953.
Puzzles, Shifting block. The Plas-Trix Company. 578,980, Aug. 25; Serial No. 602,628, published June 2, 1953.
Sleds and skis. S. L. Allen & Co., Inc. 579,106, Aug. 25; Serial No. 635,454, published June 2, 1953.
Toy. Beepers Novelty Corp. 579,084, Aug. 25; Serial No. 632,646, published June 2, 1953.

## CLASS 23

Automatic lathes and machine tools. Manufacture de Machines du Haut-Rhin. 579,065, Aug. 25; Serial No. 629,247, published Mar. 24, 1953.
Axes, bark spuds; axe and hatchet cases, etc. The Peavey Manufacturing Company. 578,970, Aug. 25; Serial No. 538,036, published May 5, 1953.
Bottle openers and closers. J. N. Green. 579,137, Aug. 25; Serial No. 637,274, published May 5, 1953.
Compressors and pumps, Rotary air and gas. Dresser Industries, Inc. 579,070, Aug. 25; Serial No. 630,129, published Mar. 24, 1953.
Fret-saws. F. Bonfigt. 93,158, re-renewed Aug. 26, 1953. O. G. Aug. 25.
Goods in the nature of individual articles and sets of articles of flatware. O. M. Otte. 579,022–5, Aug. 25; Serial Nos. 622,504–7, published May 5, 1953.
Goods in the nature of individual articles and sets of article's of flatware. O. M. Otte. 579,026–7, Aug. 25; Serial Nos. 622,509–10, published May 5, 1953.
Hobbing machines. The Cleveland Hobbing Machine Company. 579,038, Aug. 25; Serial No. 624,227, published May 5, 1953.
Machines for setting glaziers' points. Hubbard & McClary. 245,035, Aug. 7, 1928. Republished Aug. 25.
Pressure fluid motors, internal combustion motors, jet motors, etc. Société Civile: Marep, Grosshans, Ollier (M. G. O.). 579,146, Aug. 25; Serial No. 637,552, published May 5, 1953.
Razors and razor blades. Standard Safety Razor Corporation. 304,241, renewed June 27, 1953. O. G. Aug. 25.
Razors and razor blades. Standard Safety Razor Corporation. 304,301–2, renewed June 27, 1953. O. G. Aug. 25.
Road rollers, Pneumatic tired. Wm. Bros Boiler & Manufacturing Co. 579,036, Aug. 25; Serial No. 623,862, published May 5, 1953.
Spinning and weaving machines, Textile, and weaving looms and parts thereof, etc. Hordern-Richmond Limited. 578,990, Aug. 25; Serial No. 602,842, published Mar. 24, 1953.
Stainless steel table cutlery. National Silver Company. 578,985, Aug. 25; Serial No. 601,456, published Dec. 12, 1950.
Telescoping inspection mirrors. Wm. Steinen Mfg. Company. 579,148, Aug. 25; Serial No. 637,669, published May 5, 1953.

Tools, Hand operated, holding claws for use with power driveu saws. Hadston Machine Works. 578,995, Aug. 25; Serial No. 607,589, published Feb. 3, 1953.
Variable speed transmissions. Stevens Research Company. 578,976, Aug. 25; Serial No. 582,325, published May 5, 1953.
Water treatment apparatus. Automatic Pump & Softener Corporation. 579,014, Aug. 25; Serial No. 619,597, published May 5, 1953.

CLASS 24

Cutton fabric cut to size as used on ironer rolls, cotton knitted padding for flat work ironer rolls, etc. Southern Mills. 579,061, Aug. 25; Serial No. 629,063, published June 9, 1953.
Ironing board cover fasteners. W. P. Carlson. 579,220, Aug. 25; Serial No. 612,306.
Laundry appliances. Dr. A. Wacker. 579,094, Aug. 25; Serial No. 633,814, published June 9, 1953.

CLASS 25

Builders hardware—namely, locks, patches and locking bolts. Hollymade Hardware Mfg. Co. 579,040, Aug. 25; Serial No. 625,105, published June 9, 1953.
Latches, Night, locks, and parts thereof. Earle Hardware Manufacturing Company. 579,193, Aug. 25; Serial No. 641,675, published June 9, 1953.
Safes and metal structures in the nature of safes and parts thereof. Diebold, Incorporated. 579,173, Aug. 25; Serial No. 639,747, published June 9, 1953.

CLASS 26

Apparatus in the nature of a scope containing means for providing a color standard and a color sample, etc. John Roberts Powers Products Co., Inc. 579,108, Aug. 25; Serial No. 635,566, published June 2, 1953.
Bridges for ophthalmic mountings. Shuron Optical Company, Inc. 579,164, Aug. 25; Serial No. 638,917, published June 2, 1953.
Bridges for ophthalmic mountings. Shuron Optical Company, Inc. 579,165, Aug. 25; Serial No. 638,920, published June 2, 1953.
Control instruments employed to regulate heat output of combustion heating facilities. Bacharach Industrial Instrument Company. 578,980, Aug. 25; Serial No. 592,066, published May 19, 1953.
Controls comprising a pyro-recording composition. Sterilometer Laboratories. 300,401, renewed Jan. 17, 1953. O. G. Aug. 25.
Developing tanks. Bar-Ray Products. Incorporated. 579,217, Aug. 25; Serial No. 604,337.
Electrical conductivity meters, etc. Allis-Chalmers Manufacturing Company. 579,013, Aug. 25; Serial No. 619,002, published June 2, 1953.
Electronic smoke detecting and burner control apparatus. Heat-Timer Corporation. 579,000, Aug. 25; Serial No. 610,685, published June 2, 1953.
Eyeglass frames. Zylite Products Co., Inc. 579,063, Aug. 25; Serial No. 629,139, published June 2, 1953.
Holder for eyeglasses attachable to a supporting surface. Specholder Sales Company, Inc. 579,219, Aug. 25; Serial No. 612,143.
Laboratory and X-ray supplies. The Clinical Laboratories, Inc. 578,986, Aug. 25; Serial No. 601,492, published May 19, 1953.
Lenses and the carrying cases thereof. Photographic Importing & Distributing Corporation. 579,107, Aug. 25; Serial No. 635,505 published June 2, 1953.
Measuring tapes. The Lufkin Rule Company. 579,225, Aug. 25; Serial No. 624,692.
Motion picture films. Visual Department Church of Prophecy Marker Association. 579,119, Aug. 25; Serial No. 636,102, published May 26, 1953.
Motion picture films, photographic transparencies, unexposed light sensitized films, etc. Harcourt-Harris, Inc. 432,470, Sept. 2, 1947. Republished Aug. 25, 1953.
Moving picture screens and slides. C. W. Zwirn. 579,214, Aug. 25; Serial No. 596,766.
Pneumatically operated instruments. Infilco Incorporated. 579,003, Aug. 25; Serial No. 612,863, published May 26, 1953.
Rulers, calculating rules, T-squares, and triangles. A. W. Faber-Castell Pencil Co., Inc. 579,161, Aug. 25; Serial No. 638,761, published May 26, 1953.
Solenoid operated apparatus for registering the number of masses or things moving past a station, etc. The National Acme Company. 579,213, Aug. 25; Serial No. 582,797.
Sun glasses, eyeglasses, spectacles, etc. Comptone Company, Ltd. 579,223, Aug. 25; Serial No. 618,289.

CLASS 29

Mops. The New York Association for the Blind, Inc. 578,992, Aug. 25; Serial No. 606,033, published Jan. 13, 1953.

CLASS 32

Cabinet, Card index file. Wright and Company, Incorporated. 579,104, Aug. 25; Serial No. 635,210, published June 2, 1953.
Cabinets, Kitchen. Mullins Manufacturing Corporation. 579,033, Aug. 25; Serial No. 623,668, published June 9, 1953.
Cabinets, Supply. The DoAll Company. 579,071, Aug. 25; Serial No. 630,395, published June 2, 1953.
Card files, Rotary. Spin-Dex, Inc. 579,073, Aug. 25; Serial No. 630,859, published May 12, 1953.
Chair mechanisms and parts therefor, Reclining. Kay Manufacturing Corporation. 579,143, Aug. 25; Serial No. 637,448, published May 26, 1953.
Chairs. Sturgis Posture Chair Company. 579,074, Aug. 25; Serial No. 630,860, published June 9, 1953.
Chairs, Cardboard. Dallas Smith Corporation. 579,172, Aug. 25; Serial No. 639,721, published June 9, 1953.
Chairs, tables, buffets, etc. M. Greitzer. 579,080, Aug. 25; Serial No. 632,160, published June 9, 1953.
Couches, loveseats, and beds. Parkway Furniture Manufacturing Company. 579,115, Aug. 25; Serial No. 635,784, published June 2, 1953.
Curtain poles, cornices for interior decorations, frames, etc. Exportlats Försäljnings Aktiebolag. 578,981, Aug. 25; Serial No. 596,018, published June 9, 1953.
Filing trays, stands for filing trays, and filing cabinets. Stationers' Guild of America. 579,034, Aug. 25; Serial No. 623,687, published June 2, 1953.
Furniture. The Reflectone Corporation. 579,152, Aug. 25; Serial No. 638,102, published June 9, 1953.
Letter trays; hinged cover card cabinets; filing cabinets; etc. Art Steel Sales Corporation. 579,131, Aug. 25; Serial No. 637,029, published June 9, 1953.
Mattresses. R. L. Smith. 579,117, Aug. 25; Serial No. 635,934, published June 2, 1953.
Mattresses, box springs, day beds, etc. Hankers Securities Corporation. 579,138, Aug. 25; Serial No. 637,297, published June 2, 1953.
Mattresses, Inner spring. Re-Ly-On Products Company. 579,123, Aug. 25; Serial No. 636,608, published June 2, 1953.
Pillows, Foam rubber bed, cushions, throw pillows, etc. New York Feather Co., Inc. 579,159, Aug. 25; Serial No. 638,600, published June 9, 1953.
Racks. Coladonato Bros. 579,072, Aug. 25; Serial No. 630,579, published June 9, 1953.
Venetian blinds. Globe Venetian Blind Corporation. 578,999, Aug. 25; Serial No. 610,058, published Apr. 21, 1953.
Venetian blinds, Metal. Arlington Window Shade Corporation. 578,979, Aug. 25; Serial No. 590,251 published June 2, 1953.
Window shade rollers. The Columbia Mills, Inc. 579,077, Aug. 25; Serial No. 631,604, published June 2, 1953.

CLASS 35

Inner tubes. The Goodyear Tire & Rubber Company. 579,228, Aug. 25; Serial No. 631,157.

CLASS 36

Accordions. Traficante. 579,055, Aug. 25; Serial No. 628,069, published June 9, 1953.
Batons, Twirling. H. & A. Selmer, Inc. 579,068, Aug. 25; Serial No. 620,525, published June 9, 1953.
Phonograph records, Grooved. R. Petrak. 579,082, Aug. 25; Serial No. 632,324, published June 9, 1953.
Phonograph records, Grooved. Tin Pan Alley, Inc. 579,054, Aug. 25; Serial No. 627,850, published June 9, 1953.

CLASS 37

Account, data, and order books. Western Tablet & Stationery Corporation. 578,969, Aug. 25; Serial No. 526,147, published Apr. 14, 1953.
Loose leaf binders. Wilson Jones Company. 579,122, Aug. 25; Serial No. 636,304, published Apr. 21, 1953.
Paper, Coated. Consolidated Water Power & Paper Company. 579,130, Aug. 25; Serial No. 636,841, published May 5, 1953.
Papeterles. Western Tablet & Stationery Corporation. 578,973, Aug. 25; Serial No. 578,333, published Apr. 28, 1953.
Parts for fountain pens, mechanical pencils, and ball point pens. W. A. Sheaffer Pen Company. 579,090, Aug. 25; Serial No. 634,552, published Apr. 28, 1953.
Pencils. Locilles, Inc. 579,083, Aug. 25; Serial No. 632,529, published Apr. 28, 1953.
Pencils, Wood cased lead. The Mallard Pencil Co., Inc. 579,020, Aug. 25; Serial No. 622,343, published Apr. 28, 1953.
Stationery, Boxed, writing paper, carpet paper, etc. Miller and Rhoads, Incorporated. 579,031, Aug. 25; Serial No. 623,116, published Apr. 28, 1953.

CLASS 38

Books. The John C. Winston Company. 579,114, Aug. 25; Serial No. 635,731, published June 2, 1953.
Books. Pocket Books, Inc. 579,157, Aug. 25; Serial No. 638,437, published June 2, 1953.
Catalog, Trade. Locke Incorporated. 578,977, Aug. 25; Serial No. 586,643, published June 2, 1953.
Directory Inserts, Business. L. F. Hearock, Jr. 579,049–50, Aug. 25; Serial Nos. 627,443–4, published June 2, 1953.
Greeting and Christmas cards. Grant Publishing Corporation. 579,174, Aug. 25; Serial No. 639,754, published June 2, 1953.
Magazine. Close-Up, Inc. 579,160, Aug. 25; Serial No. 639,554, published June 2, 1953.



Magazine. Hercules Powder Company. 579,170, Aug. 25; Serial No. 639,638, published June 2, 1953.
Newspaper column. Dudley, Anderson and Yutzy. 579,079, Aug. 25; Serial No. 632,159, published June 2, 1953.
Newspaper columns. King Features Syndicate, Inc. 307,247, renewed Oct. 17, 1953. O. G. Aug. 25.
Newspaper section. Star Company. 94,215, re-renewed Nov. 11, 1953. O. G. Aug. 25.
Newspaper section or column. The Hearst Corporation. 579,180, Aug. 25; Serial No. 640,212, published June 2, 1953.
Periodical. Brown and Findelsen, Inc. 299,990, renewed Jan. 3, 1953. O. G. Aug 25.
Publication, Periodical. American Colortype Company. 579,032, Aug. 25; Serial No. 623,291, published June 2, 1953.
Publication. Technical. Laclede-Christy Company. 579,156, Aug. 25; Serial No. 638,423, published June 2, 1953.
Publications and prints. The Chek-Chart Corporation. 579,043, Aug. 25; Serial No. 626,561, published June 2, 1953.
Section in a periodical publication. Cowles Magazines, Inc. 579,179, Aug. 25; Serial No. 640,104, published June 2, 1953.
Section of a magazine. Ziff-Davis Publishing Company. 579,158, Aug. 25; Serial No. 638,362, published June 2, 1953.

CLASS 39

Boots, shoes, slippers, and sandals. Perth Shoe Company Limited. 301,752, renewed Mnr. 14, 1953. O. G. Aug. 25.
Brassières. Hollywood-Maxwell Company. 579,186, Aug. 25; Serial No. 640,633, published June 9, 1953.
Brassières, bandeaux, and girdles, Ladies' and misses', Imperial Brassiere Corp. 579,185, Aug. 25; Serial No. 640,516, published June 2, 1953.
Coats, vests, trousers, and overcoats, Men's and boys' ready to wear. B. Kuppenheimer, & Co., Inc. 307,127, renewed Oct. 17, 1953. O. G. Aug. 25.
Corsets, corselettes, girdles, etc., Ladies' and misses', Femode Foundations, Inc. 579,183, Aug. 25; Serial No. 640,506, published June 2, 1953.
Corsets, girdles, panty girdles, etc. S. Augstein & Co., Inc. 579,178, Aug. 25; Serial No. 640,097, published June 9, 1953.
Dresses, dress ensembles, suits, etc., Ladies' and misses'. Davidow, Inc. Sportswear. 579,187–8, Aug. 25; Serial Nos. 640,672–3, published June 9, 1953.
Dresses, skirts, coats, etc., Ladies' and misses'. David Crystal, Inc. 579,149, Aug. 25; Serial No. 637,759, published June 9, 1953.
Girdles. Biflex Foundations, Inc. 579,182, Aug. 25; Serial No. 640,324, published June 2, 1953.
Gloves, Men's and ladies'. Hansen Glove Corporation. 579,175, Aug. 25; Serial No. 639,883, published June 2, 1953.
Hair nets. Gaylord Products, Incorporated. 579,184, Aug. 25; Serial No. 640,509, published June 2, 1953.
Hosiery. United Hosiery Mills Corporation. 307,155, renewed Oct. 17, 1953. O. G. Aug. 25.
Hosiery, Men's, women's and children's. A. V. Victorius & Co., Inc. 304,780, renewed July 18, 1953. O. G. Aug. 25.
Pajamas, Infants' and children's. A. E. Santer. 305,554, renewed Aug. 22, 1953. O. G. Aug. 25.
Suits, and sweaters. R. H. Macy & Co., Inc. 306,668, renewed Sept. 26, 1953. O. G. Aug. 25.
Suits, Men's tropical worsted. R. H. Macy & Co., Inc. 306,195, renewed Sept. 12, 1953. O. G. Aug. 25.
Suits, overcoats, etc., Men's. Mac Levy & Son, Inc. 385,002, Feb. 11, 1941. New certificate. O. G. Aug. 25.
Wearing apparel, Women's. Bettermade Garment Company. 579,153, Aug. 25; Serial No. 638,239, published June 2, 1953.

CLASS 42

Bunting. Annin & Co. 91,749, re-renewed May 27, 1953. O. G. Aug. 25.
Piece goods, Cotton. T. A. Shaw and Co. 88,792, re-renewed Oct. 22, 1952. O. G. Aug. 25.
Piece goods, Cotton, rayon acetate, silk, etc., and jute. Puritan Piece Dye Works. 370,437, Aug. 29, 1939. Republished Aug. 25.

CLASS 44

Hypodermic needles. Becton, Dickinson and Company. 305,486, renewed Aug. 15, 1953. O. G. Aug. 25.
Syringes and needles made for hypodermic and other medical and surgical uses, etc. Becton, Dickinson and Company. 306,111, renewed Sept. 5, 1953. O. G. Aug. 25.
Syringes, Hypodermic, and needles. Becton, Dickinson and Company. 306,120, renewed Sept. 5, 1953. O. G. Aug. 25.

CLASS 45

Beverages, Carbonated, nonalcoholic, non-cereal, maltless, and flavoring therefor. Seminole Flavor Company. 389,082, Aug. 19, 1941. Republished Aug. 25.
Beverages, Maltless, non-alcoholic. Dupont Pharmacy, Inc. 306,812, Sept. 26, 1933. Corrected. O. G. Aug. 25.

CLASS 46

Alimentary pastes. S. A. Pastificio Nicola Delfino & Figli. 303,254, renewed May 16, 1953. O. G. Aug. 25.
Apples and pears, Fresh. T. A. Duthie. 578,984, Aug. 25, Serial No. 600,825, published May 26, 1953.
Barbecue sauce, chop suey sauce, French dressing, etc. Halben Food Manufacturing Co., Inc. 579,008, Aug. 25; Serial No. 615,550, published May 26, 1953.
Bird seed. House of Huston, Inc. 579,136, Aug. 25; Serial No. 637,256, published May 26, 1953.
Bread and bread mix. Bakera Associates Incorporated. 579,145, Aug. 25; Serial No. 637,531, published May 26, 1953.
Bread, rolls, biscuits, etc. Ward Baking Company. 93,139, re-renewed Aug. 19, 1953. O. G. Aug. 25.
Butter, fresh frozen and dried eggs, fluid milk, etc. Fairmont Foods Company. 579,011, Aug. 25; Serial No. 618,097, published May 26, 1953.
Candy. D. Coleman. 579,009, Aug. 25; Serial No. 617,946, published June 2, 1953.
Candy. Ponce Candy Industries. 579,051, Aug. 25; Serial No. 627,459, published May 19, 1953.
Canned apple sauce, apple butter, tomato catsup, etc. American Stores Company. 578,978, Aug. 25; Serial No. 588,622, published May 26, 1953.
Canned citrus fruits. Florida Citrus Exchange. 298,049, renewed Oct. 11, 1952. O. G. Aug. 25.
Canned citrus fruits and canned citrus fruit juices. Florlorange Canneries, Inc. 299,716, renewed Dec. 20, 1952. O. G. Aug. 25.
Canned cooked ham. S. Frenk. 579,098, Aug. 25; Serial No. 634,638, published June 9, 1953.
Canned fruits, canned vegetables, canned berries, etc. The Oakford Company. 579,048, Aug. 25; Serial No. 627,402, published June 2, 1953.
Canned vegetables, and canned vegetable juices. D. E. Winebrenner Company, Inc. 579,007, Aug. 25; Serial No. 615,429, published May 26, 1953.
Cheese. S. A. Latterie Industriali Riunite L. I. R. 578,974, Aug. 25; Serial No. 563,368, published May 26, 1953.
Cheese bars. Hickory Smoked Cheese Corp. 579,227, Aug. 25; Serial No. 626,510.
Cherries, Glacé, marshmallows, fruit jellies, etc. Joseph Middleby Jr., Inc. 578,972, Aug. 25; Serial No. 553,968, published May 26, 1953.
Chewing gum. Gum, Inc. 304,132, renewed June 20, 1953. O. G. Aug. 25.
Chili powder and paprika. Chili Products Corporation Ltd. 579,195, Aug. 25; Serial No. 642,198, published June 2, 1953.
Chilli mix. J. F. De Frates. 579,005, Aug. 25; Serial No. 614,137, published May 26, 1953.
Cocoa-sugar mixture, Powdered. Corliss Lamont & Company. 578,991, Aug. 25; Serial No. 605,661, published May 19, 1953.
Coffee. J. H. Wilkins Company. 300,478, renewed Jan. 24, 1953. O. G. Aug. 25.
Cookies and crackers. United Biscuit Company of America. 579,086–9, Aug. 25; Serial No. 633,180–3, published June 2, 1953.
Eggs Fresh, and coffee. Big Apple Super Markets, Inc. 579,002, Aug. 25; Serial No. 611,997, published May 19, 1953.
Feed, Range, and protein-enriched range feed. Burrus Mills, Incorporated. 579,018, Aug. 25; Serial No. 621,655, published May 26, 1953.
Feeds, Steer. Kasco Mills, Inc. 579,090, Aug. 25; Serial No. 633,454, published May 26, 1953.
Flour, Hot cake. L. M. Poll. 579,171, Aug. 25; Serial No. 639,655, published May 26, 1953.
Flour, Pancake, corn meal, rye graham flour, etc. Doud Milling Company. 579,052, Aug. 25; Serial No. 627,626, published June 2, 1953.
Food colors. H. Kohnstamm & Co., Inc. 579,191, Aug. 25; Serial No. 640,940, published May 26, 1953.
Food preparation, Liquid. Rich Products Corp. 579,212, Aug. 25; Serial No. 551,588.
Food seasoning. R. N. Meyer. 579,189, Aug. 25; Serial No. 640,865, published May 26, 1953.
Fruits, Dehydrated, jams, jellies, fruit preserves, etc. Valley Evaporating Company. 579,099, Aug. 25; Serial No. 634,668, published May 26, 1953.
Grapes, Fresh. Arrow Packing Co. 579,168, Aug. 25; Serial No. 639,360, published May 26, 1953.
Ice-cream. Borden's Condensed Milk Co. 92,038, re-renewed June 17, 1953. O. G. Aug. 25.
Ice cream. The Great Atlantic and Pacific Tea Company. 307,957, renewed Nov. 14, 1953. O. G. Aug. 25.
Ice cream bar. Hygeia Milk Products Co. 579,035, Aug. 25; Serial No. 623,837, published May 26, 1953.
Ice cream, Pre-packed and bulk. Velvet Freeze, Inc. 579,010, Aug. 25; Serial No. 618,437, published May 26, 1953.
Milk, Ice, and ice milk powder. Sweden Freezer Manufacturing Company. 578,975, Aug. 25; Serial No. 580,757, published May 26, 1953.

Mono and di-glycerides, used as an ingredient in vegetable oil food products, etc. Clayton Anderson & Co. 579,076, Aug. 25; Serial No. 631,233, published May 26, 1953.
Oleomargarine. Standard Nut Margarine Co. 303,472, renewed May 23, 1953. O. G. Aug. 25.
Oleomargarine. Standard Nut Margarine Co. 303,698, renewed June 6, 1953. O. G. Aug. 25.
Pineapple juice, Frozen concentrated. Hawaiian Pineapple Company, Limited. 579,224, Aug. 25; Serial No. 624,196.
Potato chips, Cheese coated. G. H. Edgar. 579,030, Aug. 25; Serial No. 622,885, published May 19, 1953.
Seafood, Fresh canned. Phillips Seafood Packing Company. 579,021, Aug. 25; Serial No. 622,352, published May 19, 1953.
Shortening, Vegetable. Vegetable Oil Products Company, Inc. 270,150, Apr. 29, 1930. Republished Aug. 25.
Spagbetti dinner, Complete. B. P. Basile. 579,232, Aug. 25; Serial No. 632,975.
Tea, coffee, vinegar, etc. N. W. Hill. 579,066, Aug. 25; Serial 629,314, published May 26, 1953.
Tea, South American. Berndt & Co. 88,832, re-renewed Oct. 29, 1952. O. G. Aug. 25.
Turkey, Frozen boned. Norbest Turkey Growers Association. 579,019, Aug. 25; Serial No. 622,307, published 19, 1953.
Turkeys, One-meal serving size ready-to-cook fresh frozen. M. E. Klinke. 579,102, Aug. 25; Serial No. 641,059, published June 2, 1953.
Vegetables, Washed and prepared raw. Mrs. Condies Salad Company. 578,987, Aug. 25; Serial No. 602,372, published May 19, 1953.
Vegetables, Washed and prepared raw. Mrs. Condies Salad Company. 578,988, Aug. 25; Serial No. 602,373, published May 26, 1953.
Wheat-flour. Distributors Trucking Corporation. 578,982, Aug. 25; Serial No. 599,206, published May 26, 1953.

CLASS 48

Beer. Blatz Brewing Company. 579,133, Aug. 25; Serial No. 637,166, published June 2, 1953.

CLASS 50

Blackboard, Home. Corn States Advertising Service, Inc. 579,067, Aug. 25; Serial No. 629,478, published May 26, 1953.
Bottle caps. Nationwide Leather Products Corp. 579,109, Aug. 25; Serial No. 635,609, published May 19, 1953.
Felt in the piece. American Felt Company. 94,149, renewed Nov. 11, 1953. O. G. Aug. 25.
Felt pads. American Felt Company. 579,177, Aug. 25; Serial No. 639,978, published May 26, 1953.
Kit containing various materials used for soldering aluminum cables. Eutectic Welding Alloys Corporation. 579,045, Aug. 25; Serial No. 626,868, published May 12, 1953.
Mountings of transparent plastic for the display of objects. Creative Plastics Corp. 579,015, Aug. 25; Serial No. 619,744, published May 26, 1953.
Shoe lasts. Vulcan Corporation. 579,059, Aug. 25; Serial No. 628,511, published May 12, 1953.
Transparent covers. Whitewater Raincoat Co. 579,016, Aug. 25; Serial No. 620,448, published May 12, 1953.

CLASS 51

Lotions. Auditorium Pharmacy Company. 49,144, renewed Apr. 21, 1953. O. G. Aug. 25.
Perfume. Maison Jeurelle, Inc. 304,152, renewed June 20, 1953. O. G. Aug. 25.
Shaving cream and skin salve. Claro Laboratories. 433,402, Oct. 14, 1947. Republished Aug. 25.
Talcum powder. F. G. Burke. 94,235, re-renewed Nov. 18, 1953. O. G. Aug. 25.

CLASS 52

Cleaner, Dry. E. R. Tolfree. 303,870–1, renewed June 13, 1953. O. G. Aug. 25.
Cleanser and pine oil cleanser disinfectant. American Stores Company. 578,994, Aug. 25; Serial No. 606,843, published June 2, 1953.
Shampoo. Wildroot Company Inc. 579,181, Aug. 25; Serial No. 640,316, published June 2, 1953.

CLASS 100

Gathering and distributing basic information about health, etc. Health Information Foundation. 579,204, Aug. 25; Serial No. 625,737, published June 2, 1953.
Leasing of vending machines. Automatic Canteen Company of America. 579,200, Aug. 25; Serial No. 592,691, published June 2, 1953.
Oil-well services. Stanolind Oil and Gas Company. 579,202, Aug. 25; Serial No. 611,815, published June 2, 1953.
Organizing chapters in a national collegiate fraternity, etc. The Chi Phi Fraternity. 579,210, Aug. 25; Serial No. 596,833, published Apr. 28, 1953.
Recruiting and pledging prospective members of the chapters of a National collegiate fraternity. Beta Theta Pi. 579,211, Aug. 25; Serial No. 621,998, published June 2, 1953.
Stimulating interest in the history, civilization, customs, culture, trades and skills of the American Indian, etc. Hanonis Indian Dancers. 579,201, Aug. 25; Serial No. 604,888, published May 26, 1953.

CLASS 103

Construction of chemical plants and petroleum refining process units and associated equipment. The Lummus Company. 579,206, Aug. 25; Serial No. 630,849, published May 26, 1953.
General cleaning services. Wade, Wenger & Associates, Inc. 579,205, Aug. 25; Serial No. 628,799, published June 2, 1953.
Maintaining and repairing of railroad freight and express cars, etc. General American Transportation Corporation. 579,208, Aug. 25; Serial No. 635,760, published May 26, 1953.
Pest extermination service. R. O. Williams. 579,207, Aug. 25; Serial No. 634,228, published May 26, 1953.

CLASS 106

Bleaching, mercerizing, dyeing, printing, and shrinking of textile fabrics. Cold Spring Bleachery. 579,203, Aug. 25; Serial No. 625,000, published May 26, 1953.
Finishing of textile fabrics or the like. United Merchants and Manufacturers, Inc. 579,209, Aug. 25; Serial No. 637,508, published June 2, 1953.

# LIST OF PLANT PATENTEES

Loogmire, Charles A., El Cajon, assignor to Monrovia Nursery Company, Monrovia, Calif. Lantana plant. 1,211, Aug. 25.
Munrovia Nursery Company, assignee: *See*—
Longmire, Charles A.
Mulholland, William B., and Shepp.
Mulholland, William B., Montebello, and P. E. Shepp, Pasadena, assignors to Monrovia Nursery Company, Monrovia, Calif. Azalea plant. 1,212, Aug. 25.
Shepp, Paul E.: *See*—
Mulholland, William B., and Shepp.

# LIST OF DESIGN PATENTEES

Bates, Luther K., assignor to William R. Thropp & Sons Corp., Trenton, N. J. Frame for a combination rubber and plastic mill. 170,253, Aug. 25.
Billig, Ralph B.: *See*—
Ziskin, Manuel S., and Billig.
Booklet, Morton, Merion, Pa. Merchandise envelope. 170,254, Aug. 25.
Cella Vineyards, assignee: *See*—
Dallas, Ronald H.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Dallas, Ronald H., South Gate, assignor to Cella Vineyards, Reedley, Calif. Bottle. 170,255, Aug. 25.
Dreyfuss, Henry, South Pasadena, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 170,256, Aug. 25.
Francken, Jock, Villa Ly, Lugano-Suvigliana, Switzerland. Cigarette holder. 170,257, Aug. 25.
Griffin, Howard L., Greensboro, N. C. Pie. 170,258, Aug. 25.
Hamilton, Bertis F., Columbus, Ind. Baby jumper. 170,259, Aug. 25.
Helatz Manufacturing Company, assignee: *See*—
Trautvetter, George.
Hockery, John C., trustee, assignee: *See*—
Talge, Henry J.
Hoover Company, The, assignee: *See*—
Dreyfuss, Henry.
Jones, Charles E., Chicago, Ill., assignor to The Transion Company, Newark, N. J. Finger pad or similar article. 170,260, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,261, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,262, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,263, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 170,264, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,265, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,266, Aug. 25.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or the like. 170,267, Aug. 25.
Kromex Corporation, assignee: *See*—
Ziskin, Manuel S., and Billig.
Liebhaber, Joseph F., Merrimac, Wis. Airplane. 170,268, Aug. 25.
Moulded Products, Inc., assignee: *See*—
Wenkstern, Russell.
Nekuda, Raymond F., Kansas City, Mo. Set of cards for playing a baseball game. 170,269, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,270, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,271, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Broocb or the like. 170,272, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,273, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,274, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 170,275, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Broocb or the like. 170,276, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Broocb or the like. 170,277, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,278, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,279, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,280, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,281, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,282, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 170,283, Aug. 25.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Broocb or the like. 170,284, Aug. 25.
Rice, William B., Columbus, Ind. Combined dental cuspidor and shield. 170,285, Aug. 25.
Roessler, Howard L., Elgin, Ill. Molding strip. 170,286, Aug. 25.
Rosefield, John B., Piedmont, Calif. Bottle. 170,287, Aug. 25.
Rylands, Joseph E., Lancashire, England. Toy airplane. 170,288, Aug. 25.
Skipp, Kenneth V., London, England. Combined drinking cup and guard ring. 170,289, Aug. 25.
Stillman, Isadore, Philadelphia, Pa. Stocking. 170,290, Aug. 25.
Talge, Henry J., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Sole plate for an electric iron. 170,291, Aug. 25.
Thropp, William R., & Sons Corp., assignee: *See*—
Bates, Luther K.
Transion Company, The, assignee: *See*—
Jones, Charles E.
Trautvetter, George, Jenkintown, assignor to Helntz Manufacturing Company, Philadelphia, Pa. Television console cabinet. 170,292, Aug. 25.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Wallance, Donald A., Croton-on-Hudson, N. Y. Knife or similar article. 170,293, Aug. 25.
Wenkstern, Russell, Mound, assignor to Moulded Products, Inc., Spring Park, Minn. Hobbyhorse. 170,294, Aug. 25.
Ziskin, Manuel S., Mayfield Heights, and R. B. Billig, Willoughby, assignors to Kromex Corporation, Cleveland, Ohio. Canister or similar article. 170,295, Aug. 25.

# LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 25TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abberly, Nicholas R., New York, N. Y. Light source shielding means for fluorescent luminaire. 2,650,293, Aug. 25.

Abbott, Charles W., Larchmont, N. Y., assignor to Abbott Developments, Inc., New Haven, Conn. Electric receptacle accessory for locating prong receiving apertures. 2,650,262, Aug. 25.

Abbott Developments, Inc., assignee: *See*—
Abbott, Charles W.

Abbott Laboratories, assignee: *See*—
Zangg, Harold E., Gleon, and Freifelder.

Abrahamson, Edmund, Baldwin, N. Y. Linear motion device. 2,650,312, Aug. 25.

Abt, Edward C., Los Angeles, Calif. Bottle containing trophy and beverage shaker. 2,649,984, Aug. 25.

Adams, Fred G., assignor to General Manufacturing and Distributing Company, Quincy, Mich. Electric water heater. 2,650,287, Aug. 25.

Adams, Hal M., Robbins, N. C., assignor to Robbins Mills, Incorporated, New York, N. Y. Zero twist yarn tensioning device. 2,650,044, Aug. 25.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Myer, Mayer, Jr., and Kyame.

Ahlmann, Nikolai, Copenhagen, Denmark, assignor to F. S. Smidth & Co., New York, N. Y. Method and apparatus for vibratory grinding. 2,650,033, Aug. 25.

Air Preheater Corporation, The, assignee: *See*—
Ballard, Clayton A.
Hammond, William E.
Hammond, William E., and Ballard.
Holm, Sven.

Aktiebolaget Elektrolux, assignee: *See*—
Tandberg, John G.

Aktiebolaget Enköpings Verkstader, assignee: *See*—
Emanuel af Geijerstam, Erik O.

Aktiebolaget L. Gabrielsson & Co., assignee: *See*—
Wander, John F.

Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Cuny, Robert.
Wiedemann, Eugen.

Albers, William F., Florissant, Mo. Clothesline reel unit. 2,650,041, Aug. 25.

Alcock, Edmund H.: *See*—
Thomas, Edward B., and Alcock.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Hogel, Lennart K. G., and Dreyfus.
Karsten, Olav.

Almgren, Louis E., Oak Park, Ill. Shuffler for playing cards. 2,650,096, Aug. 25.

Aluminum Company of America, assignee: *See*—
Cochran, William C.
Shelton-Jones, Eric.

American Brake Shoe Company, assignee: *See*—
Godfrey, Charles E.

American Can Company, assignee: *See*—
Martin, William McK., Pilnik, and Wobbe.
Soeke, John E.

American Cynamid Company, assignee: *See*—
Boothe, James H., and Kushner.
Boothe, James H., and Petisi.
Mecco, Jerry M.
Roemer, John J., and Kaiser.

American Enka Corporation, assignee: *See*—
Berkepels, Lukas.
Henry, William V.
Markwood, Paul W.
van Dijk, Pieter, and Schrenk.

American Hardware Corporation, The, assignee: *See*—
Hopgood, Roy C.
Welch, Nicholas A.

American Home Products Corporation, assignee: *See*—
Tinkler, Frank H., Stribley, and Kennedy.

American-La France-Foamite Corporation, assignee: *See*—
Weaver, Alexander E., and Smith.

American Locker Company, Inc., assignee: *See*—
Stackhouse, Wells.

American Machine and Foundry Company, assignee: *See*—
Bockius, Christopher.

American Manufacturing Company, Inc., assignee: *See*—
Carlson, Arthur C.

American Optical Company, assignee: *See*—
Cooke, Frank.

American Steel Foundries, assignee: *See*
Tack, Carl E.

American Viscose Corporation, assignee: *See*—
Brilhart, William O.

Amsbary, Frank C., Jr., and S. G. Moore, Champaign, Ill. Register for meters. 2,650,026, Aug. 25.

Anchor Manufacturing Company, assignee: *See*—
Sparkes, Harry P.

Anchor Radio Corporation, assignee: *See*—
Claps, William A.

Andersag, Hans: *See*—
Koenig, Karl, and Andersag.
Timmler, Helmut, Andersag, and Breitner.

Andersag, Hans, and H. Timmler, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Furo and thiene quinaldines and making same. 2,650,226, Aug. 25.

Anderson, Austin E., Jamestown, N. Y. Method of and apparatus for washing milking machines. 2,650,179, Aug. 25

Anderson, Clair H., Sr., San Diego, Calif. Angle measuring tool. 2,649,780, Aug. 25.

Anderson, Farrel L., and G. Bowers, Bird City, Kans. Tire truing device. 2,649,605, Aug. 25.

Anderson, Guy E., Wytopitlock, Maine. Tire spreader. 2,650,062, Aug. 25.

Anderson, Herbert M., Concord, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Production of sulfur from hydrogen sulfide. 2,650,154, Aug. 25.

Anderson, Noel M., Des Moines, Iowa. Hydrant. 2,649,768, Aug. 25.

Anderson, Oscar M., assignor to Landers, Frary & Clark, New Britain, Conn. Self-cleaning strainer arrangement for dishwashing machines. 2,649,765, Aug. 25.

Anderson, William D. L., Salt Lake City, Utah. Transfer means for pillow feathers and the like. 2,650,011, Aug. 25.

Andre, Robert F., Cleveland Heights, Ohio, assignor, by mesne assignments, to International Molded Plastics, Inc. Snap-fastener toy blocks. 2,649,803, Aug. 25.

Andrews, Fred W., assignor to International Latex Corporation, Dover, Del. Display stand. 2,649,060, Aug. 25.

Andrews, John M., assignor to York Corporation, York, Pa. Atmospheric condenser for refrigerating systems. 2,650,075, Aug. 25.

Anglo-Iranian Oil Company Limited, assignee: *See*—
Haresnape, John N., and Housam.

Anker-Werke, A. G., assignee: *See*—
Aurbach, Kurt, and Klaar.
Klaar, Albert.

Annelle Manufacturing Co., Inc., assignee: *See*—
Shiltong, Ellen E.

Anstett, Edgar P., Chicago, Ill. Sheet metal self-locking nail. 2,649,831, Aug. 25.

Anton Steinecker Maschinenfabrik A. G., assignee: *See*—
Zeller, Karl and Lenx.

Appleby, Paul E., assignor to Wingfoot Corporation, Akron, Ohio. Tire bead stitching mechanism. 2,649,892, Aug. 25.

Archer, James M.: *See*—
Hoen, Kenneth H., and Archer.

Archer, Ruby E., administratrix: *See*—
Hoen, Kenneth H., and Archer.

Arenco Aktiebolag, assignee: *See*—
Danielsson, Paul.
Nilsson, Johan G.

Arey, William F., Jr., and R. E. Wood, Baton Rouge, La., assignors to Standard Oil Development Company. Stabilizers for rubber and synthetic polymers. 2,650,208, Aug. 25.

Armco Steel Corporation, assignee: *See*—
Fay, James E.
Martin, Carl W., Beck, and Pick.

Armour and Company, assignee: *See*—
Harrington, Bertie S.

Armstrong Cork Company, assignee: *See*—
Pukt, Joseph J.

Armstrong, Daniel A., assignor to Scott-Atwater Manufacturing Company, Minneapolis, Minn. Speed indicating device for outboard motors. 2,649,848, Aug. 25.

Armstrong, John E., El Cerrito, Calif., assignor to Jacuzzi Bros., Incorporated. Jet pump pipe assembly. 2,649,742, Aug. 25.

Arnold, John W., assignor to The Elwood Research Company, a division of Chisolmrst, Inc., Newark, N. J. Expanding spring anchor nut. 2,649,830, Aug. 25.





Arnold, Richard T., Minneapolis, Minn., and G. E. Ullyot, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. Aminovalerolactones and their production. 2,650,231, Aug. 25.

Arpin, Edmund P., Jr., Neenah, Wis. Rotary refiner. 2,649,718, Aug. 25.

Arpin, Edmund P. J., Neenah, Wis., and R. P. Frye, Chicago, Ill., said Frye assignor to said Arpin. Rotary refiner. 2,649,717, Aug. 25.

Ashaway Line & Twine Mfg. Co., assignee: *See*—
Crandall, Julian T.

Askania Regulator Company, assignee: *See*—
Jacques, Stanley A.

Auburn Fishhook Company, Inc., assignee *See*—
Corbett, Herbert A.

Aurbach, Kurt, and A. Klaar, assignors to Anker-Werke, A. G. Bielefeld, Germany. Plural drawer mechanism for cash registers. 2,650,023, Aug. 25.

Autopoint Company, assignee: *See*—
Krause, Richard S., and Seibert.

Avery, Harold T. Oakland, Calif, assignor to Marchant Calculators, Inc. Keyboard interlock. 2,650,027, Aug. 25.

Axelsen, Ernest F., Seattle, Wash. Cable retrieving apparatus. 2,650,129, Aug. 25.

Babcock & Wilcox Company, The, assignee: *See*— Durham, Edwin.

Ball, Charles F., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Timber setting machine. 2,649,979, Aug. 25.

Ballard, Clayton A.: *See*—
Hammond, William E., and Ballard.

Ballard, Clayton A., Belmont, assignor to The Air Preheater Corporation, New York, N. Y. Spring or gravity biased radial seal. 2,650,074, Aug. 25.

Barker Poultry Equipment Company, assignee: *See*—
Sharp, Allen W.
Swanson, Oscar W.

Barmer Maschinenfabrik Aktiengesellschaft, assignee: *See*—
Grein, Hermann.

Barna, Joseph A., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Scraper support for disk type implements. 2,649,724, Aug. 25.

Barnas, John A. Detroit, Mich. Grille guard for automobiles. 2,650,126, Aug. 25.

Bartelt, Donald E., assignee: *See*—
Bartelt, Harold L.

Bartelt, Harold L., Rockford, Ill., assignor of 45 per cent to D. E. Bartelt. Method of and machine for packaging material in an inert gaseous atmosphere. 2,649,671, Aug. 25.

Bartelt, Harold L., Rockford, Ill., assignor of 45 per cent to D. E. Bartelt. Packaging machine. 2,649,673, Aug. 25.

Bartelt, Harold L., Rockford, Ill., assignor of 45 per cent to D. E. Bartelt. Packaging machine. 2,649,674, Aug. 25.

Barth, Elmer J., and P. J. Smith, assignors to Dana Corporation, Toledo, Ohio. Power and manually operated gear shift. 2,649,813, Aug. 25.

Bangh, Raymond N., Bridgeport, Conn. Center finder. 2,649,783, Aug. 25.

Baxter, Jay H., and R. B. Johnson, Port Arthur, Tex. Louver construction. 2,649,629, Aug. 25.

Beck, Charles W.: *See*—
Martin, Carl W., Beck, and Pick.

Belitz, Hans G.: *See*—
Davis, Oliver F., and Belitz.

Bell, Richard A.: *See*—
Morse, John W., Miles, and Bell.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Peterson, Eugene.
Teal, Gordon K.
Townsend, Mark A.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Bendix Aviation Corporation, assignee: *See*—
Hood, Edwin E.

Benner-Nawman, Inc., assignee: *See*—
Nawman, Rollie B.

Bennett, Elbert V., and H. Renn Albany, assignors to M and M Wood Working Company, Portland, Oreg. Apparatus for making wood patches. 2,649,869, Aug. 25.

Bennett, John W.: *See*—
Egee, Walter W., and Bennett.

Benson, Robert M.: *See*—
Slater, John M., Benson, and Freebairn.

Berger Engineering Company, assignee: *See*—
Troyer, Marc D.

Berger, Kornel, Kew Gardens, N. Y. Lamp harp. 2,650,294, Aug. 25.

Bergstrom, Carl N., Portland, Oreg., assignor to Waldorf Paper Products Company, St. Paul, Minn. Garment hanger. 2,650,006, Aug. 25.

Berkepels, Lukas, Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C. Reciprocating block. 2,650,036, Aug. 25.

Besly, Donald M.: *See*—
Goldberg, Alan A., and Besly.

Bessonette, Marshall O., Medford, Oreg. Checking device for self-service stores. 2,649,932, Aug. 25.

Bettendorf Company, The, assignee: *See*—
Schrage, Edward G.

Biefeld, Lawrence P., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Coated cloth and other resin and fiber compositions. 2,650,184, Aug. 25.

Binks Manufacturing Company, assignee: *See*—
Harker, George A., Knetl, and Nelson.

Bintz, Louis A., Detroit, Mich. Fishing stand. 2,650,052. Aug. 25.

Birza, Raymond: *See*—
Donald, James, Stimson, and Birza.

Blacker, Nicklos: *See*—
Tessier, Noel, and Blacker.

Blatt, Paula, Berea, Ohio. Girdle. 2,649,585, Aug. 25.

Bockius, Christopher, Ridgewood, N. J., assignor to American Machine and Foundry Company. Article storing and dispensing apparatus. 2,649,992, Aug. 25.

Bodendoerfer, Raymond E.: *See*—
Kummer, Theodore H., and Bodendoerfer.

Boltos, Josef, Detroit, Mich. Adjustable sawhorse bracket. 2,650,140, Aug. 25.

Boldrin, Frank S.: *See*—
Dunlap, Arthur H., and F. S. and W. C. Boldrin.

Boldrin, William C.: *See*—
Dunlap, Arthur H., and F. S. and W. C. Boldrin.

Booth, James H., Venice Township, Shiawassee County, and B. E. Ricks, Ferndale, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Link rod joint. 2,650,119, Aug. 25.

Boothe, James H., Montvale, N. J., and S. Kushner, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Phthalide compounds and their preparation. 2,650,234, Aug. 25.

Boothe, James H., Montvale, N. J., and J. P. Petisi, Tappan, assignors to American Cyanamid Company, New York, N. Y. New phthalide compounds and their preparation. 2,650,235, Aug. 25.

Bordewieck, Robert W., Southboro, assignor to Moore Electronic Laboratories, Incorporated, Worcester, Mass. Automatic electronic error correction circuit. 2,650,332, Aug. 25.

Borg-Warner Corporation, assignee: *See*—
Gommel, Dewey E.

Borgeand, Gaston, and J. Waldvogel, assignors to Schweizerische Lokomotiv und Maschinenfabrik, Winterthur, Switzerland. Rail vehicle with plural-axle. 2,649,743, Aug. 25.

Boston Woven Hose and Rubber Company, assignee: *See*—
Marcy, Grosvenor D.

Bowers, Glenn: *See*—
Anderson, Farrel L., and Bowers.

Bowman, George H., Jr., assignee: *See*—
Swearingen, Paul R.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Filter adapter. 2,650,113, Aug. 25.

Brace, George H., New London, Conn. Horizontal flue boiler with baffle structure in flue. 2,649,844, Aug. 25.

Brach, E. J., & Sons, assignee: *See*—
Varak, Joseph.

Bradley, Robert W., Marblehead, and G. T. Hart, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Dielectric bonding machine. 2,650,288, Aug. 25.

Braunlich, Frank H., Jr.: *See*—
Cardwell, Paul H., and Braunlich.

Bray, Ralph, West Lafayette, and K. Lark-Horovitz, assignors to Purdue Research Foundation, Lafayette, Ind. Radiant energy detecting method and apparatus. 2,650,311, Aug. 25.

Braymer, Lawrence E., Lahaska, Pa. Telescope. 2,649,791, Aug. 25.

Brazell, Thomas P., St. Louis, Mo. Remote-control pedal operating device. 2,649,814, Aug. 25.

Breitner, Stephan: *See*—
Timmler, Helmut, Andersag, and Breitner.

Brilhart, William O., Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del. Moistureproofing of nonfibrous cellulosic material. 2,650,172, Aug. 25.

Bristol Laboratories, Inc., assignee: *See*—
McDuffie, Harold F., Jr., and Cooper.

British Celanese Limited, assignee: *See*—
Thomas, Edward, Boaden, and Alcock.

Broadhurst, Jack M.: *See*—
Streed, David D. M., and Broadhurst.

Brockway, William W., and D. G. Shearer, Los Angeles, Calif. Radio navigation system. 2,650,359, Aug. 25.

Brooks, Joseph H., West Peabody, assignor to Sylvania Electric Products Inc., Salem, Mass. Lamp transfer apparatus. 2,649,975, Aug. 25.

Broos, Henricus A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit-arrangement for tone-control in low-frequency amplifiers. 2,650,268, Aug. 25.

Brown, Cicero C., Houston, Tex. Well packer. 2,649,916, Aug. 25.

Brown, Edmund V., St. Catharines, Ontario, Canada. Tire lug. 2,649,885, Aug. 25.

Brown, Hugh F., Oakland, Calif. Fruit gatherer apron. 2,649,680, Aug. 25.

Brown, Kenneth W., assignee: *See*—
Lingane, James J.

Browning, Samuel D., Baldwin, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Dual channel telegraph system. 2,650,266, Aug. 25.

Brox, Ethel E., Euclid, Ohio. Display device. 2,649,970, Aug. 25.

Bruce, E. L., Company, assignee: *See*—
Jones, Leslie H.

Bruce, Ernest G., deceased, late of Philadelphia, Pa., by The Pennsylvania Company for Banking and Trusts, Philadelphia, Pa., administrator. Suspension for automobiles and other vehicles. 2,650,108, Aug. 25.

Bruins, Paul F., Doughaston, assignor, by mesne assignments, to Christian Missions Foundation, Inc., New York N. Y. Producing sisal fiber and wax. 2,649,624, Aug. 25.

Buckeridge, Roger M., Downers Grove, and W. E. Goodman, assignors to Goodman Manufacturing Company, Chicago, Ill. Conveyer belt control. 2,649,955, Aug. 25.

Buergi-Schenk, Hélène, Sankt Gallen, Switzerland. Hair-fastening means retainable in its position for use. 2,649,783, Aug. 25.

Buffet, Arthur A., Bondy, assignor to Etablissements Marret, Bonnin, Lebel & Guieu, Paris, France. Flexible tubing or casing. 2,649,778, Aug. 25.

Burch, Donald J., Denver, Colo. Caulking compound tube. 2,649,989, Aug. 25.

Burch, Paul P.: *See*—
Runnells, David L., Jr., and Burch.

Burdick, John N., Kenmore, and H. E. Kinne, Lockport, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Evacuating, filling, sealing, and releasing gas in a container. 2,649,993, Aug. 25.

Burgess, Edward G., Jr., Kew Gardens, assignor to The Sperry Corporation, Long Island City, N. Y. Means for testing torpedo depth control mechanism. 2,649,750, Aug. 25.

Burgoyne, Edward E.: *See*—
Condon, Francis E., and Burgoyne.

Burke, George F. C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Insole assembling machine. 2,649,590, Aug. 25.

Burmeister, Harry: *See*—
Krönig, Walter, Seeles, and Burmeister.

Burnett, Robert L., Overton, England, assignor to Imperial Chemical Industries Limited, Apparatus for the purification of calcium. 2,650,085, Aug. 25.

Busch, Edgar C.: *See*—
Deutsch, Louis, and Busch.

Bustamante, Cesar, New York, N. Y. Advertising card conveyer. 2,649,798, Aug. 25.

Buttner, Carl M., assignor to Hunter Fan and Ventilating Company, Inc., Memphis, Tenn. Air-moving device. 2,649,728, Aug. 25.

Caldwell, Harry B., Penketh, Warrington, and K. G. Hancock, Great Sankey, near Warrington, assignors to Electro-Hydraulics Limited, Warrington, England. Fluid pressure motor comprising relatively extensible and contractible piston and cylinder elements. 2,649,842, Aug. 25.

Cameron Machine Company, assignee: *See*—
Carter, Thomas N.

Campbell, George E., assignor to The Wheland Company, Chattanooga, Tenn. Metal-to-metal seated valve pot cover with independent gasket sealing adjustment. 2,649,988, Aug. 25.

Canfield, William B.: *See*—
Rust, John B., and Canfield.

Cape, Arthur T., Los Angeles, Calif., assignor to Cnast Metals, Inc., Little Ferry, N. J. Weld rod. 2,650,162, Aug. 25.

Capitol Records, Inc., assignee: *See*—
Rice, Frederick H.

Carboni, Rudolph A., Yonkers, N. Y., and P. P. Regna, West New York, N. J., assignors to Chas. Pfizer & Co., Inc. Crystalline naphthalene sulfonate salts of streptomycin and dihydrostreptomycin. 2,650,216, Aug. 25.

Carborundum Company, The, assignee: *See*—
Eastman, Don L.

Cardinal, Earl V., Berwyn, Ill., assignor to Corn Products Refining Company, New York, N. Y. Separation of tyrosine and cystine. 2,650,242, Aug. 25.

Cardwell, Paul H., and F. H. Braunlich, Jr., Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich. Preventing loss of fluid into their formations. 2,650,195, Aug. 25.

Carhart, Nathan A., and E. F. Stoner, Los Angeles, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Variable camber wing. 2,650,047, Aug. 25.

Carllo, Etta M., Bovill, Idaho. Garment shoulder strap holder. 2,649,639, Aug. 25.

Carlson, Arthur C., Anacortes, assignor, by mesne assignments, to American Manufacturing Company, Inc., Tacoma, Wash. Spliced veneer sheet offbearing mechanism. 2,649,976, Aug. 25.

Carlson, Norris W., Dayton, Ohio. Parachute load release. 2,650,127, Aug. 25.

Carosella, Michael C., and J. D. Mettler, Niagara Falls, N. Y., assignors to Union Carbide and Carbon Corporation. Electrowinning of chromium. 2,650,192, Aug. 25.

Carrier Corporation, assignee: *See*—
Del Signore, James R.
Goldmann, Philipp.

Carson, Clarence M., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Coated rubber hydrochloride product. 2,650,174, Aug. 25.

Carta, Anthony, assignee: *See*—
Carta, Pierre.

Carta, Pierre, assignor to A. Carta, Los Angeles, Calif. Slitting device for wire insulation or the like. 2,649,654, Aug. 25.

Carter, Thomas N., Bayside, assignor to Cameron Machine Company, Brooklyn, N. Y. Rewinding machine. 2,650,039, Aug. 25.

Caspers Tin Plate Company, assignee: *See*—
Wall, Lloyd W.

Catlin, Kenneth G., Basking Ridge, N. J. Method of and apparatus for ascertaining true size of photofluorographically recorded objects irrespective of enlargement or reduction. 2,650,308, Aug. 25.

Central Mine Equipment Company, assignee: *See*—
Rassleur, Theodore E.

Challis, Anthony A. L.: *See*—
Reynolds, Peter W., and Challis.

Chambers, Albert M., Jr., and L. F. Jones, assignors to The Garlock Packing Company, Palmyra, N. Y. Sealing device. 2,650,117, Aug. 25.

Chandler, Milton E., New Britain, assignor to Niles-Bement-Pond Co., West Hartford, Conn. Movable mount for aircraft engines. 2,650,050, Aug. 25.

Chappell, Henry A., Dana Point, Calif. Protective garment. 2,649,584, Aug. 25.

Charleston, Donald, Chicago, Ill. Display advertising and illuminating device. 2,650,054, Aug. 25.

Chase Brass & Copper Co. Incorporated, assignee: *See*—
McGarry, James W.

Cheeseman, Evans W.: *See*—
Schlenk, Carl F., Cheeseman, and Patrick.

Chemstrand Corporation, The, assignee: *See*—
Ham, George E.

Cherry-Burrell Corporation, assignee: *See*—
Kummer, Theodore H., and Rodendoerfer.

Chicago Bridge & Iron Company, assignee: *See*—
Moyer, Frederick D.

Childs, Robert S., South Sudbury, assignor, by mesne assignments to E. G. Martin, Cambridge, Mass. Variable inductance for measuring motion. 2,650,352, Aug. 25.

Chisholm, Walter E., assignee: *See*—
La Voque, Edward C.

Chopleska, Frank S., La Crosse, Wis. Cutting knife for food choppers. 2,649,882, Aug. 25.

Christian Missions Foundation, Inc., assignee: *See*—
Bruins, Paul F.

Christie, Soren L., and F. C. Marshall, Los Angeles, Calif., assignors to McColoin-Christie Corp. Battery charging apparatus. 2,650,339, Aug. 25.

Clapp, Roy A., Minneapolis, Minn. Motion-picture machine and film feeding mechanism. 2,649,836, Aug. 25.

Clans, William A., assignor to Anchor Radio Corporation, Chicago, Ill. Radio frequency amplifier. 2,650,296, Aug. 25.

Clarite Battery, Inc., assignee: *See*—
Jolley, Edward L.

Clark, Edward B., Milford, Conn., assignor to General Electric Company. Floor outlet with switch interlock. 2,650,331, Aug. 25.

Clark, James W.: *See*—
Finlay, Alexander, and Clark.

Clark, Leverett M., Los Angeles, Calif., and S. H. Fillion, Scarsdale, assignors to Waugh Equipment Company, New York, N. Y. Draft gear. 2,649,973, Aug. 25.

Clarostat Mfg. Co., Inc., assignee: *See*—
Mucher, George J.

Clansen, Howard F.: *See*—
Walz, Claude W., and Clansen.

Cleveland, Elonza A.: *See*—
Couch, Dean H., and Cleveland.

Cleveland Wire Spring Company, assignee: *See*—
Sjolander, John L.

Clewell, Dayton H., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Automatic mapping system. 2,649,781, Aug. 25.

Coast Metals, Inc., assignee: *See*—
Cape, Arthur T.

Cochran, William C., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Brightening aluminum. 2,650,157, Aug. 25.

Cohen, Arthur, Brooklyn, and P. S. Foster, Astoria, N. Y. Boiler with fusible metal actuated control switch. 2,649,845, Aug. 25.

Cohen, Herman, Brookline, Mass. Carbon monoxide eliminator. 2,649,685, Aug. 25.

Cohoes Envelope Company, Inc., assignee: *See*—
McMillan, Harold I.

Cole, Joseph W., Portsmouth, and L. E. McElroy, Newport News, Va. Cutting block. 2,649,911, Aug. 25.

Cole, Paul M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Advancing reel. 2,649,645, Aug. 25.

Cole, Thomas M., New York, N. Y., and W. H. Lantz, Jr., Newington, Conn., assignors to Federal Electric Products Company, Newark, N. J. Multipole circuit breaker and tripping device therefor. 2,650,280, Aug. 25.

Colehower, Harry H., Jr., Abington, assignor to C. Walker Jones Co., Philadelphia, Pa. Dampening roll for lithographic presses. 2,649,649, Aug. 25.

Coleman, Clarence B., Oakland, Calif. Drip arresting apparatus. 2,650,003, Aug. 25.





Collier, Donald W., Philadelphia, Pa., assignor to The Sharples Corporation. Concentration of aqueous aconitic acid solutions. 2,650,248, Aug. 25.

Colonial Broach Company, assignee: *See*—
Welte, Benedict.

Columbia-Southern Chemical Corporation, assignee: *See*—
Rahn, Henry W.
Stralo, Franklin.

Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Davis, Oliver F., and Bellz.

Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, assignee: *See*—
Pickman, Edgard.

Condon, Francis E., Borger, Tex., and E. E. Burgoyne, Bartlesville, Okla., assignors to Phillips Petroleum Company. Preparation of furans. 2,650,230, Aug. 25.

Condon, James W., The Dalles, Oreg. Protective visor for mirrors. 2,649,839, Aug. 25.

Conn, C. G., Ltd., assignee: *See*—
Loney, Hugh W.

Consolidated Engineering Corporation, assignee: *See*—
Robinson, Charles F.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
Larson, John W., and Tooley.
Pfrankuch, Leo A.

Cooke, Frank, North Brookfield, assignor to American Optical Company, Southbridge, Mass. Abrading device. 2,649,667, Aug. 25.

Coons, Burton C., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Tomato paring and coring machine. 2,649,878, Aug. 25.

Cooper, Douglas E.: *See*—
McDuffie, Harold F., Jr., and Cooper.

Cooper, Stanley M., assignor to The Fafnir Bearing Company, New Britain, Conn. Locking collar. 2,650,141, Aug. 25.

Corbett, Herbert A., assignor, by mesne assignments, to Auburn Fishhook Company, Inc., Auburn, N. Y. Point forming mechanism. 2,649,821, Aug. 25.

Corn Products Refining Company, assignee: *See*—
Cardinal, Earl V.
Couch, Dean H., and Cleveland.

Cornell-Dubilier Electric Corporation, assignee: *See*—
Ehrbar, Edward J.

Cortegglano, William L., and J. A. Redmond, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio frequency switch apparatus. 2,650,285, Aug. 25.

Costikyan, Kent R., Montclair, N. J. Luggage carriage. 2,650,105, Aug. 25.

Cotterman, Frank D.: *See*—
Hjulian, Julius A., Cotterman, and Hansen.

Couch, Dean H., China Lake, Calif., and E. A. Cleveland, Milan, Italy, assignors to Corn Products Refining Company, New York, N. Y. Preparation of hexuronic acids and derivatives thereof. 2,650,237, Aug. 25.

Couch, Glenn F.: *See*—
Vale, George F., and Couch.

Cowgill, William W., Fairfield, Conn., assignor to United States Rubber Company, New York, N. Y. Coating machine with circulating system. 2,649,758, Aug. 25.

Crabtree, George W., Cleveland Heights, Ohio. Hydraulic spring controlling unit. 2,649,936, Aug. 25.

Crabtree, George W., Cleveland Heights, Ohio. Hydraulic spring control means. 2,649,937, Aug. 25.

Crabtree, George W., Cleveland Heights, Ohio. Hydraulic spring control means. 2,649,938, Aug. 25.

Crandall, Julian T., Ashaway, R. I., assignor to Ashaway Line & Twine Mfg. Co. Manufacture of lines for racquets. 2,649,833, Aug. 25.

Crane Co., assignee: *See*—
Hjulian, Julius A., Cotterman, and Hansen.

Crane, George B., Redondo Beach, assignor to Gilfillan Bros., Inc., Los Angeles, Calif. Oscillation network with circuits for developing voltages in accordance with angular positions of radiated antenna beams. 2,650,358, Aug. 25.

Cranmer, George H., Elkins Park, Pa., assignor to Electrolux Corporation, New York, N. Y. Means to eject dust bag from vacuum cleaner casing. 2,649,926, Aug. 25.

Crompton & Knowles Loom Works, assignee: *See*—
Dion, Raymond F.

Cromwell Paper Company, The, assignee: *See*—
Le Bolt, John M.

Crystal Waxing Company, The, assignee: *See*—
Klevit, Jasper.

Cuny, Robert, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Fluid sealing gland. 2,650,116, Aug. 25.

Curtis Manufacturing Company, assignee: *See*—
Hecker, Harvard K.

Cusic, John W., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Xanthene-9-carboxylic acid esters of nuclearly alkylated 4-piperidinols and salts thereof. 2,650,230, Aug. 25.

Cutler-Hammer, Inc., assignee: *See*—
Hansen, Kenneth H.

Cutler, Norman L., Wilmington, Del. Eye implant and prosthesis. 2,649,590, Aug. 25.

Da Fano, Ettore: *See*—
Hitch, Robert A., and Da Fano.

Daigle, Earl C., Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Color stabilization of fuel oils. 2,650,187, Aug. 25.

Dale, Clarence R., Los Angeles, Calif. Oil well flowmeter. 2,649,710, Aug. 25.

Dale, Clarence R., Los Angeles, Calif. Apparatus for determining fluid flow in wells. 2,649,711, Aug. 25.

Dale, Clarence R., Altadena, Calif. Oil well flowmeter. 2,649,712, Aug. 25.

Damron, Charles L., Lexington, Ky. Radio receiving system. 2,650,297, Aug. 25.

Dana Corporation, assignee: *See*—
Parth, Elmer J., and Smith.

Daněk, Otto, and J. Nosek, Pardubice-Rybitví, assignors to Vychodoceske Chemicke Zavody, narodni podnik, Pardubice, Czechoslovakia. Preparation of aromatic mercury halides. 2,650,238, Aug. 25.

Danielsson, Paul, assignor to Arenco Aktiebolag, Stockholm, Sweden. Apparatus for positioning fish. 2,649,613, Aug. 25.

Dannenberg, Hans, Berkeley, and J. R. Scheibli, San Lorenzo, assignors to Shell Development Company, San Francisco, Calif. Polyesters of alkenyl-succinic acids. 2,650,211, Aug. 25.

Darling, Jesse A., Jackson Heights, N. Y. Threaded stopper attachment for internally threaded lathe chucks. 2,650,098, Aug. 25.

Davey, Edward L., Hale, assignor to W. T. Glover & Company Limited, Manchester, England. Gas-filled electric cable with paper and polystyrene insulation. 2,650,261, Aug. 25.

Davidson, Donald W., Jr., Sutter, Calif. Belt feed for aircraft guns. 2,649,840, Aug. 25.

Davidson, John T., and P. G. Stimson, assignors to The Standard Register Company, Dayton, Ohio. Strip feeding apparatus. 2,650,090, Aug. 25.

Davis, Oliver F., Troy, and H. G. Bellz, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Apparatus for plating metal objects. 2,649,754, Aug. 25.

Davison Chemical Corporation, The, assignee: *See*—
Woppman, Joseph G.

Dearborn Motors Corporation, assignee: *See*—
Barna, Joseph A.
Raught, Arthur V.
Spedding, Raymond T.

Debaisieux, Alexandre: *See*—
Steichen, Ferdinand, and Debaisieux.

Deere & Company, assignee: *See*—
Newmaster, Walter H.
Oehler, William P.
Oehler, William P., and Youngberg.
Paradise, Louis A.
Walz, Claude W., and Clausen.

Deere Manufacturing Co., assignee: *See*—
Hill, George B.
McClellan, Marcus E.

Deering Milliken Research Trust, assignee: *See*—
Ingham, Robert M., Jr.

Delhomme, Valex J., assignee: *See*—
Peters, Wilhelm F., and Riesinger.

Del Signore, James R., assignor to Carrier Corporation, Syracuse, N. Y. Air conditioning unit, including subcooling means. 2,649,701, Aug. 25.

Demarco, Salvatore J., Jr.: *See*—
Tawney, Chester W., Demarco, and Herrick.

Denovan, John J., Lachine, Quebec, and R. A. Denovan, Sherbrooke, Quebec, Canada. Nail extracting device. 2,650,061, Aug. 25.

Denovan, Robert A.: *See*—
Denovan, John J. and R. A.

Desbarat, Edward W., Montreal, Quebec, Canada. Saw attachment for drills and the like. 2,650,871, Aug. 25.

Detrick, M. H., Company, assignee: *See*—
Hosbelo, Louis H.

Deutsch, Louis, Dearborn, and E. C. Busch, Detroit, Mich. Pipe clamp. 2,649,640, Aug. 25.

Diamond, William E., assignor to E. W. Sharpe, Corinth, Miss. Coating device for coating elongated objects. 2,649,757, Aug. 25.

Di Federico, John, and N. S. Di Lorenzo, Southbridge, Mass. Pipe ash ejector. 2,649,762, Aug. 25.

Di Lorenzo, Norman S.: *See*—
Di Federico, John, and Di Lorenzo.

Dion, Raymond F., Leominster, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder for weft replenishing looms. 2,649,863, Aug. 25.

Dion, Raymond F., Leominster, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder for weft replenishing looms 2,649,860, Aug. 25.

Discenza, Joseph: *See*—
Kellien, Saul, and Discenza.

Distillers Company Limited, The, assignee: *See*—
Milne, John N., Faulkner, and Hollis.

Doebeli, Albert, Le Locle, Switzerland. Electromagnetically actuated friction coupling with servo-action. 2,649,941, Aug. 25.

Dolby, Thomas P., assignor to Instrument Springs Manufacturing Company, Elgin, Ill. Hairspring assembly. 2,649,884, Aug. 25.

Donald, James, M. W. Stimson, and R. Birza, assignors to Shwayder Bros., Inc., Denver, Colo. Luggage compartment liner. 2,649,939, Aug. 25.

Donald, James, M. W. Stimson, and R. Birza, assignors to Shwayder Bros., Inc., Denver, Colo. Luggage compartment cover. 2,649,940, Aug. 25.

Donath, Edwin W., and B. A. Ritzenthaler, assignors to Illinois Testing Laboratories, Inc., Chicago, Ill. Dewpoint measuring device. 2,649,707, Aug. 25.

Dorr Company, The, assignee: *See*—
Turr, Donald T., Jr., and Fischer.

Dorr Company, The, assignee: *See*—
White, Frank S.

Douglas Aircraft Company, Inc., assignee: *See*—
Carhart, Nathan A., and Stoner.

Douglas Tool Company, assignee: *See*—
Pinto, Michael.

Doutt, Kingsley A., Detroit, Mich. Upset cylinder stroke adjusting nut with self-compensating cam. 2,650,275, Aug. 25.

Dow Chemical Company, The, assignee: *See*—
Cardwell, Paul H., and Braunlich.

Doye, Robert H., Jr., Kansas City, Kans. Cigarette case timing indicator. 2,649,753, Aug. 25.

Draves, Lehl A., Nucla, Colo. Reversible ditching plow. 2,649,793, Aug. 25.

Dreyfus, Ludwig: *See*—
Hogel, Lennart K. G., and Dreyfus.

Dudley, Frank E., Philadelphia, Pa. Tube expanding. 2,649,889, Aug. 25.

Dullinger, Emil J., Oakesdale, Wash. Motor-driven rotary currying brush. 2,649,597, Aug. 25.

Donavant, Lee R., Seattle, Wash. Liquid metering apparatus. 2,649,713, Aug. 25.

Duncan, Theodore R., Hollywood, assignor to Mattel Creations, Inc., Culver City, Calif. Making melody combs. 2,649,652, Aug. 25.

Dunlap, Arthur H., and F. S. and W. C. Boldrin, Seattle, Wash.; said F. S. and W. C. Boldrin assignors to said Dunlap. Machine and method for producing corner beads for use in dry-built construction. 2,649,890, Aug. 25.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Cole, Paul M.
Griffith, Andrew S., Jr.
Hofrichter, Charles H., Jr.
Iler, Ralph K., and Wolter.
Kimball, Warren T.
MacDonald, Robert N.
Piccard, John A.

Durham, Edwin, Westfield, N. J., assignor to The Babcock & Wilcox Company; New York, N. Y. Apparatus for separating moisture from a vapor. 2,649,928, Aug. 25.

Eastman, Don L., Watertown, assignor to The Carborundum Company, Niagara Falls, N. Y. Scouring implement. 2,650,158, Aug. 25.

Eastman Oil Well Survey Company, assignee: *See*—
Goble, Ralph W.

Edwards, William F. M., Esher, assignor to Filter Tips Limited, Pall Mall, England. Manufacture of filter tip and like composite cigarettes. 2,649,761, Aug. 25.

Efthilos, Kosmas, New Orleans, La. Apparatus for releasing frozen confections from molds. 2,649,764, Aug. 25.

Egee, Walter W., Yeadon, and J. W. Bennett, assignors to Fletcher Works Incorporated, Philadelphia, Pa. Machine for applying a treating liquid to yarns. 2,649,756, Aug. 25.

Egee, Walter W., Yeadon, assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Bobbin drive for winding machines. 2,650,035, Aug. 25.

Ehrbar, Edward J., Cleveland, Ohio, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Lightning arrester. 2,650,325, Aug. 25.

Electric & Musical Industries Limited, assignee: *See*—
Huntley, Keith G.
Leyton, Eric M.

Electro-Hydraulics Limited, assignee: *See*—
Caldwell, Harry B., and Hancock.

Electrolux Corporation, assignee: *See*—
Cranmer, George H.
Fadner, Glenn R.

Ellis, Amy S., Runcorn, and R. B. Mooney, Liverpool, England, assignors to Imperial Chemical Industries Limited. Production of ammonium uranium fluoride. 2,650,153, Aug. 25.

Ellis-Foster Company, assignee: *See*—
Rust, John B., and Canfield.

Elsheimer, Roscoe: *See*—
Kerr, Charles E., and Elsheimer.

Elwell, Edwin L., Lineboro, Md., assignor to Eskimo Pie Corporation, Bloomfield, N. J. Apparatus for making composite ice-cream confections. 2,649,744, Aug. 25.

Elwood Research Company, a division of Chiselhurst, Inc., The, assignee: *See*—
Arnold, John W.

Emanuel af Geijerstam, Eric O., Stockholm, assignor to Aktiebolaget Enköpings Verkstader, Enkoping, Sweden. Method and apparatus for discontinuous drying using a heating and a cooling cycle. 2,649,789, Aug. 25.

Embart Manufacturing Company, assignee: *See*—
Russell, Alan W.

Endrich, Karl, Zollikon, near Zurich, Switzerland. Appliance on typewriting, calculating, or bookkeeping machines for positioning and adjusting a top sheet in front of one or more basic sheets. 2,649,950, Aug. 25.

Epstein, Saul, Los Angeles, Calif. Sheet metal pipe and fitting connection. 2,650,114, Aug. 25.

Erdos, Leslie L., New York, N. Y. Speaking dictionary. 2,650,097, Aug. 25.

Eskimo Pie Corporation, assignee: *See*—
Elwell, Edwin L.

Etablissements Marret, Bounin, Lebel & Guieu, assignee: *See*—
Buffet, Arthur A.

Ewald, Raymond L., and H. A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg. Mechanism for peeling the stem indents of fruit. 2,649,879, Aug. 25.

Ewald, Raymond L., and H. A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg. Mechanism for processing fruit. 2,649,880, Aug. 25.

Faber, Guy S., Chicago, Ill. Propeller for fluid. 2,649,921, Aug. 25.

Fadner, Glenn R., Oshkosh, Wis., assignor to Electrolux Corporation, Old Greenwich, Conn. Toolholder for tank type vacuum cleaners. 2,649,606, Aug. 25.

Fafnir Bearing Company, The, assignee: *See*—
Cooper, Stanley M.

Fallor, Ralph J., Akron, Ohio. Carrier for containers. 2,650,128, Aug. 25.

Fairburn, Ethel I.: *See*—
Welshlat, David I., and Fairburn.

Farbenfabriken Bayer Aktiengesellschaft, assignee: *See*—
Hecht, Gerhard, Henecka, and Meisenheimer.
Windemuth, Erwin.

Farley, Philip S., assignor to Noble Co., Oakland, Calif. Apparatus for feeding fibrous material. 2,650,002, Aug. 25.

Farmer, Edward B., Waban, Mass. Electric timing device. 2,650,301, Aug. 25.

Faulkner, Donald: *See*—
Milne, John N., Faulkner, and Hollis.

Fay, James E., assignor to Armco Steel Corporation, Middletown, Ohio. Mechanism for corrugating strips of material. 2,649,888, Aug. 25.

Federal Electric Products Company, assignee: *See*—
Cole, Thomas M., and Lantz.
Norden, Alexander R.

Feild, George B., assignor to Hercules Powder Company, Wilmington, Del. Lead wire for initiating devices. 2,640,735, Aug. 25.

Ferrin, Kenneth S., assignor to The National Cash Register Company, Dayton, Ohio. Record member. 2,650,024, Aug. 25.

Field, Edward A., Mendota, Ill. Barometric draft regulator. 2,650,029, Aug. 25.

Field, Howard, Jr.: *See*—
Lewis, Howard B., Larson, and Field.

Fillion, Stanley H.: *See*—
Clark, Leverett M., and Fillion.

Filter Tips Limited, assignee: *See*—
Edwards, William F. M.

Finke, Herbert A.: *See*—
Gaffney, Francis J., and Finke.

Finlay, Alexander, and J. W. Clark, Marquette, assignors to Lake Shore Engineering Company, Iron Mountain, Mich. Skip. 2,649,083, Aug. 25.

Firma Karl M. Reich, assignee: *See*—
Reich, Kurt, and Wallliser.

Firma Vereinigte Glanzstoff-Fabriken A. G., assignee: *See*—
Martin, Wilhelm, and Heynen.

Fischer, François A.: *See*—
Tarr, Donald T., Jr., and Fischer.

Fischer, Thomas L.: *See*—
Thias, Edwin P., Fischer, Gossard, and White.

Fisher, Ernest F., Dayton, Ohio. Wrench and tap device. 2,649,825, Aug. 25.

Fitting, Henry T.: *See*—
King, John P., and Fitting.

Flaws, John, Jr., East Cleveland, Ohio. Dispensing device. 2,649,655, Aug. 25.

Fleming, William: *See*—
Lawrence, Owen N., Harris, and Fleming.

Fletcher Works Incorporated, assignee: *See*—
Egee, Walter W.
Egee, Walter W., and Bennett.

Fontein, Freerk J., assignor to Stamicarbon N. V., Heerlen, Netherlands. Apparatus for continuously separating solids in or from liquid suspensions thereof. 2,649,063, Aug. 25.

Food Machinery and Chemical Corporation, assignee: *See*—
Coons, Burton C.
Hait, James M.

Food Machinery and Chemical Corporation, assignee: *See*—
Kerr, Charles E.
Kerr, Charles E., and Elsheimer.
Kerr, Charles E., and Galloway.
Polk, Ralph, Sr., and Ralph Polk, Jr.





Foote Bros. Gear and Machine Corporation, assignee: *See*—
Wood, Davis M.

Formanek, Alois, Chicago, Ill. Double-acting shock absorber and stabilizer. 2,650,088, Aug. 25.

Foster, Patrick S.: *See*—
Cohen, Arthur, and Foster.

Fougera, E., & Co., Inc., assignee: *See*—
Halpern, Alfred.

Foulke, Ted E., Highland Heights, Ohio, assignor to General Electric Company. Glow type thermal switch. 2,650,278, Aug. 25.

Fowler, Harlan D., Whittier, Calif. Transport airplane construction. 2,650,049, Aug. 25.

Fox, Roy C.: *See*—
Webb, Edward L., and Fox.

Francis, Coleman L.: *See*—
Francis, Frank N., and C. L.

Francis, Frank N., Greer, and C. L. Francis, Greenville, S. C. Harness operating means for looms. 2,649,863, Aug. 25.

Francis, Victor J., North Wembley, and E. H. Nelson, Harrow Weald, England, assignors to General Electric Company. High-pressure metal vapor electric discharge lamp. 2,650,322, Aug. 25.

Franck, Karl, Terre Haute, Ind. Making fermented beverages. 2,650,164, Aug. 25.

Frankel, Sydney, Ridgefield Park, N. J., assignor to E. P. Lawson Co., Inc., New York, N. Y. Back gauge for paper cutter-drive disconnect for manual operation. 2,649,912, Aug. 25.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,650,015, Aug. 25.

Frankfother, Thomas L., assignor of fifty per cent to A. D. Larson, Oklahoma City, Okla. Auxiliary type safety trailer hitch. 2,650,101, Aug. 25.

Freebairn, Darwin L.: *See*—
Slater, John M., Benson, and Freebairn.

Freeman, Earl C., Milwaukee, Wis. Apparatus for fishing through ice. 2,649,801, Aug. 25.

Freifelder, Morris: *See*—
Zaugg, Harold E., Glenn, and Freifelder.

Freitas, Anthony, assignee: *See*
Toop, Frederick.

Freitas, Rose, assignee: *See*
Toop, Frederick.

French American Reeds Manufacturing Co., Inc., assignee: *See*
Maccuferri, Mario.

French, Oliver S., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Steering knuckle and tie rod connection. 2,650,106, Aug. 25.

Freysinger, John B., assignor to North & Judd Manufacturing Company, New Britain, Conn. Ornamental belt buckle. 2,649,636, Aug. 25.

Frigidweld, Inc., assignee: *See*—
Javor, George.

Frye, Raymond P.: *See*—
Arpin, Edmund P., Jr., and Frye.

Fulton, Hugh W., E. B. Stead, and D. More, Glasgow, Scotland, assignors, by mesne assignments, to The Glacier Metal Company Limited, Alperton, England. Centrifuge for cleaning liquids. 2,650,022, Aug. 25.

Gaffney, Francis J., Malverne, and H. A. Finke, New York, assignors to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Impedance mensuring bridge. 2,650,347, Aug. 25.

Galloway, Robert K.: *See*—
Kerr, Charles E., and Galloway.

Gammeter, John R., Akron, Ohio. Apparatus for testing and sorting thin rubber articles. 2,649,960, Aug. 25.

Gapstur, Joseph M., Ashland, Ohio. Combined container and display rack. 2,649,957, Aug. 25.

Garbuny, Max, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Self-tuning klystron. 2,650,324, Aug. 25.

Garlock Packing Company, The, assignee: *See*—
Chambers, Albert M., Jr., and Jones.

Garsaud, Octave P., Metairie, La. Preparing fresh frozen seasoned hamburger. 2,650,167, Aug. 25.

Gavigan, Harold F., Malverne, N. Y. Time controlled radio program selector. 2,650,272, Aug. 25.

General Aniline & Film Corporation, assignee: *See*—
Sweet, Monroe H.

General Controls Co., assignee: *See*—
Grayson, Richard D.

General Electric Company, assignee: *See*—
Clark, Edward R.
Foulke, Ted E.
Francis, Victor J., and Nelson.
Heath, Paul D.
Jones, Benjamin W.
Ker, Montgomery.
Lamb, Fredrick S., and Hermanson.
Marks, Charles L.
Noel, Edward B.
Ochwat, Joseph F.
Sandin, Ray C.
Skeats, Wilfred F.
von Hoorn, Fred G.
White, William C.
Williams, Charles E.

General Instrument Corporation, assignee: *See*—
Gostyn, Ernest.

General Manufacturing and Distributing Company, assignee: *See*—
Adams, Fred G.

General Motors Corporation, assignee: *See*—
Hutchinson, Roland V., and Thorne.

General Nailing Machine Corporation, assignee: *See*—
Paxton, Gerald C.

General Railway Signal Company, assignee: *See*—
Reichard, Wade H.

Geyer, Eugene P., Detroit, Mich., assignor, by mesne assignments, to Pioneer Specialty Company. Extensible aerial. 2,650,302, Aug. 25.

Gibbs, S. E., Corydon, Iowa. Treated clay animal litter. 2,649,759, Aug. 25.

Giddings & Lewis Machine Tool Company, assignee: *See*—
Kaiser, Erwin J.

Gilbert, Roswell W., Montclair, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Induction galvanometer. 2,650,348, Aug. 25.

Gilfillan Bros., Inc., assignee: *See*—
Crane, George H.

Glacier Metal Company Limited, The, assignee: *See*—
Fulton, Hugh W., Stead, and More.

Glaser, Albert, Zurich, Switzerland. Fishing reel. 2,650,040, Aug. 25.

Gleason, Anthony H.: *See*—
Nelson, Joseph F., and Gleason.

Glenn, Howard: *See*—
Zaugg, Harold E., Glenn, and Freifelder.

Glover, W. T., & Company Limited, assignee: *See*—
Davey, Edward L.

Gmelner, Harry H., executor: *See*—
Minor, Charles G.

Goble, Ralph W., Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo. Temperature measuring and indicating apparatus. 2,649,715, Aug. 25.

Goble, Ralph W., Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo. Well bore caliper having linear electrical response. 2,649,786, Aug. 25.

Godfrey, Charles E., Batavia, Ill., assignor to American Brake Shoe Company, New York, N. Y. Track spike with circumferentially extending deformable projection. 2,650,032, Aug. 25.

Goland, Martin, and P. D. Wickersham, assignors to Midwest Research Institute, Kansas City, Mo. Automatic measuring apparatus and method. 2,650,057, Aug. 25.

Goldberg, Alan A., Hampstead, London, and D. M. Besly, Wells, assignors to Ward Blenkinsop & Company Limited, London, England. Manufacture of meso-halogenoaza-acridines. 2,650,225, Aug. 25.

Goldmann, Philipp, Forest Hills, assignor to Carrier Corporation, Syracuse, N. Y. Special valve arrangement on centrifugal condensers and coolers. 2,649,698, Aug. 25.

Goldstein, Joseph, Brookline, Mass. Phosphorescent coated sheet material. 2,650,169, Aug. 25.

Golloh, Abe, assignee: *See*—
McCandless, Field F.

Gommel, Dewey E., Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Mounting rotors on arbors of various transaxial contours. 2,649,868, Aug. 25.

Goodman Manufacturing Company, assignee: *See*—
Buckeridge, Roger M., and Goodman.
Millhuff, Gale E.
Robbins, James S.
Slomer, Joseph J.

Goodman, William E.: *See*—
Buckeridge, Roger M., and Goodman.

Goodrich, B. F., Company, The, assignee: *See*—
Stock, Robert P.

Goodspeed, Carl M., Fort Dodge, Iowa. Reversible wagon drawbar. 2,650,102, Aug. 25.

Gordon, John, assignee: *See*—
Tripp, Lester A.

Gorman, Andrew T., Pitcairn, Pa., assignor to Westinghouse Air Brake Company. Release control apparatus for fluid pressure brakes. 2,650,137, Aug. 25.

Gossard, Thomas F.: *See*—
Thias, Edwin P., Fischer, Gossard, and White.

Gostyn, Ernest, Longmeadow, Mass., assignor to General Instrument Corporation, Elizabeth, N. J. Transformer unit. 2,650,351, Aug. 25.

Goulding, Charles E., Jr., Caracas, Venezuela. Decreasing the porosity of calcareous and siliceous materials. 2,650,173, Aug. 25.

Grace, Theodore E., Detroit, Mich. Laterally extensible supports for traction elements. 2,650,104, Aug. 25.

Grayson, Richard D., Monrovia, assignor, by mesne assignments, to General Controls Co., Glendale, Calif. Universal safety temperature control. 2,650,028, Aug. 25.

Green, Charles V., Pasadena, Calif. Forming waterproof garments. 2,650,182, Aug. 25.

Grein, Hermann, Remscheid-Lennep, assignor to Barmer Maschinenfabrik Aktiengesellschaft, Wuppertal-Oberbarmen, Germany. Apparatus for maintaining a constant tension in a moving filament. 2,650,043, Aug. 25.

Griffith, Andrew S., Jr., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Liquid level gauge. 2,649,714, Aug. 25.

Griswold, Donald G., Alhambra, Calif. Differential pressure operated valve. 2,649,773, Aug. 25.

Gronowski, Edward C., Wauwatosa, assignor to McGraw Electric Company, Milwaukee, Wis. Circuit interrupter. 2,650,282, Aug. 25.

Guardian Electric Manufacturing Co., assignee: *See*— Neisen, Marvin G.

Gurry, Edward J., Upton, Mass. Apparatus for making hats. 2,650,005, Aug. 25.

Gustafson, Elmer G., Cambridge, Ill. Combine chaffer. 2,649,760, Aug. 25.

Gustin, Albert L., Jr., Johnson County, Kans., assignor to Gustin-Bacon Manufacturing Company. Attaching mats. 2,649,627, Aug. 25.

Gustin-Bacon Manufacturing Company, assignee: *See*— Gustin, Albert L., Jr.

Hagopian, Richard H., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dielectric heating. 2,650,289, Aug. 25.

Hahn & Kolb, assignee: *See*— Venus, Wilibald A.

Hait, James M., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Method of and apparatus for extracting juice from whole citrus fruit. 2,649,730, Aug. 25.

Hall, Robert, Los Angeles, Calif. Protective covering for dispensing nozzles. 2,649,770, Aug. 25.

Hallahan, Edward M., Philadelphia, Pa. Toothbrush package. 2,649,959, Aug. 25.

Halpern, Alfred, Brooklyn, assignor to E. Fougera & Co., Inc., New York, N. Y. N-allyl-aad N-butenyl-hydantoic acid. 2,650,247, Aug. 25.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Acrylonitrile copolymers. 2,650,151, Aug. 25.

Hammond Machinery Builders, Inc., assignee: *See*— Zino, Clarence A., and Perkins.

Hammond, William E., Wellsville, assignor to The Air Preheater Corporation, New York, N. Y. Heat exchanger core with beam components. 2,650,076, Aug. 25.

Hammond, William E., Wellsville, and C. A. Ballard, Belmont, assignors to The Air Preheater Corporation, New York, N. Y. Heat exchanger envelope comprising assembled channels and plates. 2,650,077, Aug. 25.

Hancock Kenneth G.: *See*— Caldwell, Harry B., and Hancock.

Handley, John, Purley, England, assignor to The Union Totalisator Company Limited, Glasgow, Scotland. Plural counter selecting and operating means. 2,650,025, Aug. 25.

Hanrahan, Giovanna L., Brooklyn, N. Y. Youth-chin massager. 2,649,855, Aug. 25.

Hansen, George E.: *See*— Hjulian, Julius A., Cotterman, and Hansen.

Hansen, Kenneth H., White Plains, N. Y., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Switching type conveyer. 2,649,953, Aug. 25.

Hardgrove, Robert R., and E. T. Lake, Livingston, Mont. Detachable telescope sight mount. 2,649,779, Aug. 25.

Harding, Harry J.: *See*— Harding, John H.

Harding, John H., generally known as Harry J. Harding, Philadelphia, assignor to C. H. Masland & Sons, Carlisle, Pa. Jacquard mechanism and process. 2,649,862, Aug. 25.

Haresnape, John N., and E. C. Housam, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Catalytic cracking of dewaxed petroleum hydrocarbons. 2,650,189, Aug. 23.

Harker, George A., G. J. Kneti, and R. Nelson, assignors to Binks Manufacturing Company, Chicago, Ill. Waste coating material localizer. 2,650,080, Aug. 25.

Harrington, Bertie S., assignor to Armour and Company, Chicago, Ill. Valve and suction cutoff mechanism. 2,649,096, Aug. 25.

Harris, Thomas A.: *See*— Lawrence, Owen N., Harris, and Fleming.

Harrison, Henry, Port Washington, N. Y. Stepladder. 2,650,014, Aug. 25.

Harrison, Robert C., Santa Monica, Calif. Electrical conduit connector. 2,650,110, Aug. 25.

Harshaw Chemical Company, The, assignee: *See*— Kremers, Harry C.

Hart, George T.: *See*— Bradley, Robert W., and Hart.

Hartford National Bank and Trust Company, trustee, assignee: *See*— Broos, Henricus A. Posthumus, Klaas.

Hastings Manufacturing Company, assignee: *See*— Phillips, Harold P.

Hawes, Russell J., Cranford, N. J., and C. C. Winding, Ithaca, assignors to Tide Water Associated Oil Company, New York, N. Y. Production of silicate adsorbent. 2,650,202, Aug. 25.

Hawes, Russell J., Cranford, N. J., and C. C. Winding, Ithaca, N. Y., assignors to Tide Water Associated Oil Company, Bayonne, N. J. Preparation of silicate adsorbents. 2,650,203, Aug. 25.

Hawkins, Claude M., Anderson, S. C. Sickle guard grain collecting trough. 2,649,679, Aug. 25.

Hawkins, Edward M., Forest, Va. Grubber. 2,650,063, Aug. 25.

Haynes, Joseph E., Baltimore, Md. Adjustable sash and frame. 2,649,628, Aug. 25.

Heath, Paul D., Syracuse, N. Y., assignor to General Electric Company. Angular modulating system. 2,650,350, Aug. 25.

Hecht, Gerhard, Wuppertal-Vohwinkel, H. Henecka, Wuppertal-Elberfeld, and M. Meisenheimer, Leverkusen-Bayerwerk, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Rodenticidal compositions. 2,650,186, Aug. 25.

Hecker, Harvard K., University City, assignor to Curtis Manufacturing Company, St. Louis, Mo. Lifting device. 2,649,033, Aug. 25.

Hedrick, Herman B., Jonesville, Va. Letter opener. 2,649,656, Aug. 25.

Helgeson, Angus G., Birmingham, Mich., assignor to The National Cash Register Company, Dayton, Ohio. Carrying frames in accounting machines. 2,649,733, Aug. 25.

Heltzel, Carl J., executor: *See*— Heltzel, John N.

Heltzel, John N.: *See*— Heltzel, John N.

Heltzel, John N., deceased, Warren, Ohio; The Union Savings & Trust Company, Warren, Ohio and C. J. Heltzel, executors. Drainage system for airports and highways. 2,649,720, Aug. 25.

Henecka, Hans: *See*— Hecht, Gerhard, Henecka, and Meisenheimer.

Hennigh, George W., and H. D. Ridge, Long Beach, Calif. Special purpose electric motor. 2,650,314, Aug. 25.

Henrichsen, Knut, Los Angeles, Calif., assignor to North American Aviation, Inc. Pump. 2,649,741, Aug. 25.

Henrichsen, William, Long Island City, N. Y. Building element. 2,649,626, Aug. 25.

Henry, William V., Candler, assignor to American Enka Corporation, Enka, N. C. Locking device for caps of up-twister machines. 2,649,683, Aug. 25.

Hercules Powder Company, assignee: *See*— Feild, George B. Horsey, Eleanor F., and Thompson.

Hermanson, Gerald I.: *See*— Hermanson, William A., and G. I.

Hermanson, Herman E.: *See*— Lamb, Fredrick S., and Hermanson.

Hermanson, William A., Brookline, and G. I. Hermanson, Newton, Mass. Disposable diaper. 2,649,859, Aug. 25.

Herrick, Pat H.: *See*— Tawney, Chester W., Demarco, and Herrick.

Herz, Harry: *See*— Herz, Josephine D., and H. Herz.

Herz, Josephine D., and H. Herz, Fort Pierce Beach, Fla. Bed guard. 2,649,594, Aug. 25.

Hess, Alexander M., New York, N. Y. Kitchen appliance, scraper-collector. 2,649,604, Aug. 25.

Heynen, Wilhelm: *See*— Martin, Wilhelm, and Heynen.

Hill, George B., New Holland, Pa., assignor to Deere Manufacturing Co., Dubuque, Iowa. Side delivery rake. 2,649,681, Aug. 25.

Hinman, Dorr J., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Method and apparatus for making pneumatic tires. 2,649,891, Aug. 25.

Hitch, Robert A., Trenton, and E. Da Frano, Raritan, N. J., assignors to John B. Pierce Foundation, New York, N. Y. High-temperature liquid heat system. 2,650,031, Aug. 25.

Hjermstad, Erling T.: *See*— Kesler, Carl C., and Hjermstad.

Hjulian, Julius A., Palos Heights, F. D. Cotterman, La Grange, and G. E. Hansen, assignors to Crane Co., Chicago, Ill. Filling valve or the like. 2,650,059, Aug. 25.

Hodge, Robert J., West Haven, Conn. Adjustable strap-attaching means for buttonloops, buckles, etc. 2,649,637, Aug. 25.

Hoen, Kenneth H., and J. M. Archer, deceased, Billings, Mont., R. E. Archer, administratrix, de bonis non. Hydraulic pump. 2,649,737, Aug. 25.

Hofrichter, Charles H., Jr., Madison, Conn., assignor to E. I. Du Pont de Nemours and Company, Wilmington, Del. Production of polyethylene terephthalate. 2,650,213, Aug. 25.

Hogel, Lennart K. G., and L. Dreyfus, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Tilting electrical melting furnace of egg shaped cross section. 2,650,255, Aug. 25.

Hollis, Charles E.: *See*— Milne, John N., Faulkner, and Hollis.

Holiman, Peter I., Rockford, Ill., assignor to Geo. D. Roper Corporation. Main burner ignition system. 2,649,904, Aug. 25.

Holm, Sven, Wellsville, assignor to The Air Preheater Corporation, New York, N. Y. Combined regenerator and precooler for gas turbine cycles. 2,650,073, Aug. 25.

Holt, Raymond R., Alhambra, Calif. Means to close filling opening in prepared poultry. 2,649,614, Aug. 25.





Hood, Edwin E., Elmira, N. Y., assignor to Bendix Aviation Corporation. Driving mechanism for velocipedes and the like. 2,649,942, Aug. 25.

Hoover Company, The, assignee: *See*— Brace, George A. Kaufman, George E. Piper, Glenn T. Segesman, Louis E. Smith, Richard H. Tschudy, Donald B. Vance, John E.

Hopgood, Roy C., Glen Ridge, N. J., assignor to The American Hardware Corporation, New Britain, Conn. Latch mechanism. 2,650,123, Aug. 25.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Suction roll seal assembly. 2,649,719, Aug. 25.

Horsey, Eleanor F., Wilmington, and W. D. Thompson, Hockessin, assignors to Hercules Powder Company, Wilmington, Del. Butadiene-styrene sized paper and method. 2,650,163, Aug. 25.

Horton, Paul M., and A. G. Keller, assignors to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. Separating sugar juice, pith, and fiber from stalks. 2,650,176, Aug. 25.

Hosbein, Louis H., Glencoe, assignor to M. H. Detrick Company, Chicago, Ill. Header supported wall for boilers. 2,649,846, Aug. 25.

Hosemaster Machine Company Limited, assignee: *See*— Wickardt, Kurt W.

Houdaille-Hershey Corporation, assignee: *See*— Hufford, George H., and O'Connor.

Housam, Ernest C.: *See*— Haresnape, John N., and Housam.

Howard, Paul W., assignee: *See*— Ott, Walter A.

Hufford, George H., Cleveland Ohio, and B. E. O'Connor, Buffalo, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich. Constant pressure variable displacement pump. 2,649,739, Aug. 25.

Hughes, Thomas B., Granite City, Ill. Structure for conducting fluid mediums. 2,649,795, Aug. 25.

Hunt, J. Harold, assignor to Motor Wheel Corporation, Lansing, Mich. Apparatus for producing tapered metal disks. 2,649,820, Aug. 25.

Hunt, William E., Brooklyn, Conn., assignor to Wiggins-Hunt Engineering Corporation, Norwood, Mass. Aircraft. 2,650,045, Aug. 25.

Hunter Fan and Ventilating Company, Inc., assignee: *See*— Buttner, Carl M.

Huntley, Keith G., Harlington, Hayes, assignor to Electric & Musical Industries Limited, Hayes, England. Pulse converting circuits. 2,650,300, Aug. 25.

Hussey, Richard L., assignor to Lee Paper Company, Vicksburg, Mich. Work support and clamp for drill press tables. 2,649,819, Aug. 25.

Hutchinson, Roland V., Birmingham, and M. A. Thorne, assignors to General Motors Corporation, Detroit, Mich. Driven steering wheel. 2,649,922, Aug. 25.

Ier, Ralph K., and F. J. Wolter, assignors to E. I. Du Pont de Nemours & Company, Wilmington, Del. Making a concentrated silica sol. 2,650,200, Aug. 25.

Illinois Testing Laboratories, Inc., assignee: *See*— Donath, Edwin W., and Ritzenthaler.

Imperial Chemical Industries Limited, assignee: *See*— Burnett, Robert L. Ellis, Amy S., and Mooney. Reynolds, Peter W., and Challis.

Infilco Incorporated, assignee: *See*— Kalinske, Anton A., and Scott.

Ingersoll-Rand Company, assignee: *See*— Maclay, William R., and Spyridakis.

Ingham, Robert M., Jr., Clemson, S. C., assignor to Deering Milliken Research Trust, New York, N. Y. Method and apparatus for stretch-breaking textile filaments. 2,649,623, Aug. 25.

Instrument Springs Manufacturing Company, assignee: *See*— Dolby, Thomas P.

International Latex Corporation, assignee: *See*— Andrews, Fred W.

International Molded Plastics, Inc., assignee: *See*— Andre, Robert F.

International Register Company, assignee: *See*— Ramos, Pedro S.

Jackson, Byron, Co., assignee: *See*— Lundeen, Chester A.

Jacobs, Ellis H., assignee: *See*— Miller, Joseph J.

Jacobson, Donald A., Grand Rapids, Mich. Gas fueled radiant heater. 2,649,907, Aug. 25.

Jacques, Stanley A., assignor to Askania Regulator Company, Chicago, Ill. Hydraulic piston positioning system. 2,649,841, Aug. 25.

Jacuzzi Bros., Incorporated, assignee: *See*— Armstrong, John E.

James, Homer B., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit control device. 2,650,328, Aug. 25.

Javor, George, assignor to Frigidweld, Inc., Chicago, Ill. Repairing metal castings. 2,649,650, Aug. 25.

Jeunesse, Emile, assignor to A. R. Oliver, New Orleans, La. Mustard dispenser. 2,650,001, Aug. 25.

Johns, Francis J., and A. Jokl, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Skewed stator construction. 2,650,316, Aug. 25.

Johnson, Claude W., Berkeley, Calif., assignor to Trendicator Systems Co. Visual control board. 2,649,790, Aug. 25.

Johnson, Claude W., Berkeley, Calif. Apparatus for aligning and sorting sheets of paper, etc., and parts therefor. 2,650,109, Aug. 25.

Johnson, Daniel R., Los Angeles, Calif. Chair structure. 2,649,901, Aug. 25.

Johnson, Ervin G., Oakland, Calif. Hydraulic expansion device. 2,649,691, Aug. 25.

Johnson, Eugene A., Great Falls, Mont. Tornado proof building. 2,649,625, Aug. 25.

Johnson, Floyd A., Price, Utah. Electrolytes for wet-cell storage batteries. 2,649,766, Aug. 25.

Johnson, Joseph N., Oakland, Calif. Power grip bead breaker for tires. 2,649,902, Aug. 25.

Johnson, Robert B.: *See*— Baxter, Jay H., and Johnson.

Johnston, Thomas, Drumheller, Alberta, Canada. Fuel dehydrating and straining funnel with leg supports. 2,649,966, Aug. 25.

Joiner, John M., Jr., Chicago, Ill. Auto burglar alarm. 2,650,354, Aug. 25.

Jokl, Alois: *See*— Johns, Francis J., and Jokl.

Jolley, Edward L., Salt Lake City, Utah, assignor to Clarite Battery, Inc. Lead-acid electric storage battery and producing same. 2,650,257, Aug. 25.

Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Voltage regulator. 2,650,341, Aug. 25.

Jones, C. Walker Co., assignee: *See*— Colehower, Harry H., Jr.

Jones, Leo F.: *See*— Chambers, Albert M., Jr., and Jones.

Jones, Leslie H., assignor to E. L. Bruce Company, Memphis, Tenn. Apparatus for finishing wood. 2,649,755, Aug. 25.

Jones, Reuben G., assignor to Eli Lilly and Company, Indianapolis, Ind. 2-methyl-3-amino-4,5-di-hydroxymethylpyridine and its salts and the preparation thereof. 2,650,232, Aug. 25.

Josephson, Leon, Paris, France, Brassière. 2,649,586, Aug. 25.

Joy Manufacturing Company, assignee: *See*— Ball, Charles F. Paget, Win W.

Judelson, David N., Park Ridge, N. J. Machine for winding a web of material. 2,650,037, Aug. 25.

Kahle Engineering Company, assignee: *See*— Kahle, Louis C.

Kahle, Louis C., Teaneck, assignor to Kahle Engineering Company, North Bergen, N. J. Machine for forming glass articles. 2,649,659, Aug. 25.

Kaiser, Donald W.: *See*— Roemer, John J., and Kaiser.

Kaiser, Edward W., Chicago, Ill. Jarketed valve. 2,649,769, Aug. 25.

Kaiser, Edward W., Chicago, Ill. Expansion joint enclosure. 2,650,111, Aug. 25.

Kaiser, Erwin J., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Metal cutting tool. 2,649,818, Aug. 25.

Kalinske, Anton A., Elmhurst, Ill., and L. H. Scott, Orlando, Fla., assignors to Infilco Incorporated, Chicago, Ill. Preventing flotation of floc. 2,650,193, Aug. 25.

Kammerer, Archer W., Fullerton, Calif. Multiple expansion rotary drill bit. 2,650,072, Aug. 25.

Kantor, Russell P., assignor to Alex. Lee Wallau Incorporated, New York, N. Y. Footcap. 2,649,588, Aug. 25.

Karsten, Olav, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electromagnetic slip coupling. 2,650,315, Aug. 25.

Kaufman, George E., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,649,608, Aug. 25.

Kaye, James W., Montclair, assignor to Kaye & MacDonald, Inc., West Orange, N. J. Lever system for steam traps. 2,649,815, Aug. 25.

Kaye & MacDonald, Inc., assignee: *See*— Kaye, James W.

Keaton, Eugene P., Andrews, S. C. Boat trailer. 2,650,099, Aug. 25.

Keillen, Saul, and J. Discenza, assignors to Pass & Seymour, Inc., Syracuse, N. Y. Fault detecting power-driven screw driver. 2,649,870, Aug. 25.

Keller, Arthur G.: *See*— Horton, Paul M., and Keller.

Kellie, Edward P., Detroit, Mich. Snap freezing by cooling a mass while under the pressure and quickly relieving the pressure. 2,649,702, Aug. 25.

Kelsey-Hayes Wheel Company, assignee: *See*— Palmer, Harry A.

Kemp, Philip G., St. Albans, N. Y. Washing machine. 2,649,706, Aug. 25.

Kennedy, John, Detroit, Mich. Jet-propelled spinning balloon. 2,649,804, Aug. 25.

Kennedy, John G.: *See*—
Tinkler, Frank H., Stribley, and Kennedy.

Ker, Montgomery, Scotia, N. Y., assignor to General Electric Company. Magnetic amplifier circuit. 2,650,342, Aug. 25.

Kerr, Charles E., and R. Elsheimer, Hoopeston, Ill., assignors to Food Machinery and Chemical Corporation. Apparatus for handling cartons. 2,649,676, Aug. 25.

Kerr, Charles E., and R. K. Galloway, Hoopeston, Ill., assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Case loading chute. 2,649,946, Aug. 25.

Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Apparatus for packing containers. 2,650,009, Aug. 25

Kesler, Carl C., and E. T. Hjermstad, assignors to Penick & Ford, Ltd., Incorporated, Cedar Rapids, Iowa. Alkaline-setting resin-starch reaction product and preparation thereof. 2,650,205, Aug. 25.

Kesser, Joseph S., assignor to Tri-Clover Machine Co., Kenosha, Wis. Toggle type connecting assembly. 2,649,632, Aug. 25.

Kidde Manufacturing Co., Inc., assignee: *See*—
Noe, Harold C.

Klevit, Jasper, assignor to The Crystal Waxing Company, Middletown, Ohio. Automatic web rewinding machine. 2,650,038, Aug. 25.

Killian, Edward S., Akron, Ohio. Apparatus for manufacturing dipped rubber articles. 2,649,619, Aug. 25.

Kimball, Warren T., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating material, coated fabric, and producing it. 2,650,170, Aug. 25.

King, Alfred B., Company, The, assignee: *See*—
King, John P., and Fitting.

King, John P., and H. T. Fitting, North Haven, assignors to The Alfred B. King Company, New Haven, Conn. Dye-house truck. 2,649,965, Aug. 25.

Kinkead, Alan, Los Altos, assignor to Williams-Wallace Company, San Francisco, Calif. Double walled pipe and coupling therefor. 2,650,112, Aug. 25.

Kinn, Theodore P., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Microwave heating. 2,650,291, Aug. 25.

Kinne, Harvey E.: *See*—
Burdick, John N., and Kinne.

Kirkpatrick, John A., assignor to Universal Manufacturing Corp., Zelienople, Pa. Scaffold connection. 2,650,120, Aug. 25.

Kirsten, Elwyn N., Philadelphia, Pa. Child's travel unit. 2,649,593, Aug. 25.

Klaar, Albert: *See*—
Aurbach, Kurt, and Klaar.

Klaar, Albert, assignor to Anker-Werke, A. G., Bielefeld, Germany. Recording device for cash registers, accounting machines, and the like. 2,649,732, Aug. 25.

Klein, William F., Watertown, N. Y., assignor to The New York Air Brake Company. Brake cylinder release valve. 2,650,138, Aug. 25.

Klein, William F., Watertown, N. Y., assignor to The New York Air Brake Company. Brake cylinder release valve. 2,650,139, Aug. 25.

Klenk, George W., Eugene, Oreg. Combination serving stand and beverage dispenser. 2,649,997, Aug. 25.

Klimek, Leo J., Sauk Centre, Minn. Ruler gauge. 2,649,784, Aug. 25.

Knabb, Charles S.: *See*—
Sternbergh, Solon A., and Knabb.

Knapp-Monarch Company, assignee: *See*—
Lamb, Ollo.
Lautner, Max E., and V. Wambeck.

Knetl, George J.: *See*—
Harker, George A., Knetl, and Nelson.

Knibb, Leroy H., Chicago, Ill. Display case for wristwatch bands. 2,649,956, Aug. 25.

Knowles Associates, assignee: *See*—
Kuster, Otto R., and Reid.

Kobayashi, Harry T., assignor of 50% to S. Kobayashi, Honolulu, Hawaii. Scratch marker for measuring tape. 2,649,787, Aug. 25.

Kobayashi, Sally, assignee: *See*—
Kobayashi, Harry T.

Koenig, Karl, Leverkusen-Bayerwerk, and H. Andersag, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Salts of 7-iodo-8-hydroxy-quinoline-5-sulfonic and 7-haloquinolines carrying a dialkylaminoalkylamino substituent in the 4-position. 2,650,224, Aug. 25.

Kohlstedt, Edwin, Alta, Iowa. Apparatus for defrosting low-temperature cooling coils. 2,649,695, Aug. 25.

Konchan, Anton W., Berwyn, Ill. Gas tank cap valve. 2,649,776, Aug. 25.

Konchan, Anton W., Berwyn, Ill. Radiator pressure cap. 2,649,986, Aug. 25.

Konchan, Anton W., Berwyn, Ill. Radiator pressure cap. 2,649,987, Aug. 25.

Konopa, Joseph J., Marshfield, Wis. Jointer attachment for portable electric drills. 2,649,874, Aug. 25.

Koppers Company, Inc., assignee: *See*—
Totzek, Friedrich.

Kopplus, Otto G., White Plains, assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Infrared analyzer. 2,650,307, Aug. 25.

Krause, Richard S., and E. H. Seibert, assignors to Autopoint Company, Chicago, Ill. Telescoping magnifying lens and handle. 2,649,838, Aug. 25.

Kremers, Harry C., Mentor, assignor to The Harshaw Chemical Company, Cleveland, Ohio. Side heater. 2,650,254, Aug. 25.

Krönig, Walter, Hamburg-Blankenese, H. Seeles, and H. Burmeister, Hamburg, Germany, assignors to Shell Development Company, Emeryville, Calif. Oil-soluble petroleum sulfonates. 2,650,198, Aug. 25.

Kummer, Theodore H., and R. E. Bodendoerfer, Milwaukee, Wis., assignors to Cherry-Burrell Corporation, Chicago, Ill. Receptacle filler and capper having receptacle carrier and capper indexing means. 2,650,012, Aug. 25.

Kushner, Samuel: *See*—
Boothe, James H., and Kushner.

Kuster, Otto R., Brooklyn, and R. C. Bied, Carle Place, assignors to Knowles Associates, New York, N. Y. Transmission and reaction torque device. 2,649,816, Aug. 25.

Kyame, George J.: *See*—
Mayer, Mayer Jr., and Kyame.

Lager, Edward J., Davenport, Iowa. Base seal structure for burial vaults. 2,649,944, Aug. 25.

Lake, Ernest T.: *See*—
Hardgrove, Robert R., and Lake.

Lake Shore Engineering Company, assignee: *See*—
Finlay, Alexander, and Clark.

Lamb, Francis X., East Orange, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Electrical instrument with permanent magnet cores. 2,650,349, Aug. 25.

Lamb, Fredrick S., Cleveland Heights, and H. E. Hermannson, East Cleveland, Ohio, assignors to General Electric Company. Electric terminal connector. 2,650,353, Aug. 25.

Lamb, Ollo, assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Regulator valve. 2,649,661, Aug. 25.

Landers, Frary & Clark, assignee: *See*—
Anderson, Oscar M.

Lane-Wells Company, assignee: *See*—
Phillips, Robert A.

Langer, Nicholas, New York, N. Y. Heatsealing method. 2,650,183, Aug. 26.

Lantz, William H., Jr.: *See*—
Cole, Thomas M., and Lantz.

Lark-Horovitz, Karl: *See*—
Bray, Ralph, and Lark-Horovitz.

Larkin, Charles R., assignee: *See*—
Larkin, Glenn M.

Larkin, Glenn M., Quincy, Mich., assignor of one-half to C. R. Larkin, Toledo, Ohio. Bun warmer. 2,649,853, Aug. 25.

Larkin, John L.: *See*—
Reese, George E., and Larkin.

Larson, A. D., assignee: *See*—
Frankfother, Thomas L.

Larson, Glen M.: *See*—
Lewis, Howard B., Larson, and Field.

Larson, John W., and D. A. Tooley, Fort Worth, Tex., assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Bonding faying surfaces of metallic members. 2,650,185, Aug. 25.

Laughter, D. Robert, trustee, assignee: *See*—
Noodleman, Samuel.

Lautner, Max E., Webster Groves, and S. H. V. Wambeck, Richmond Heights, assignors to Knapp-Monarch Company, St. Louis, Mo. Fan structure. 2,650,019, Aug. 25.

La Vogue, Edward C., Hawthorne, assignor of one-half to W. E. Chisholm, Van Nuys, Calif. Transmission. 2,649,817, Aug. 25.

Lawrence, Owen N., Dorridge, T. A. Harris, Edgbaston, Birmingham, and W. Fleming, Waddington, Clitheroe, assignors to Joseph Lucas Limited, Birmingham England. Apparatus for controlling the supply of liquid fuel to the combustion chambers of prime movers. 2,649,686, Aug. 25.

Lawson, E. P., Co., Inc.: *See*—
Frankel, Sydney.
Seybold, Frederick W.

Leadingham, Willis, Glouster, Ohio. Automatic shoe wiper. 2,649,599, Aug. 25.

Le Bolt, John M., Deerfield, assignor to The Cromwell Paper Company, Chicago, Ill. Disposable baby diaper. 2,649,858, Aug. 25.

Ledrut, Jules H. T., Brussels, assignor to Luxema S. A., Ixelles, Belgium. Reaction product of antipyrine aldehyde, p-aminobenzene sulfonamide and sodium bisulfite. 2,650,219, Aug. 25.

Lee Paper Company, assignee: *See*—
Hussey, Richard L.

Lefebvre, Palma A., assignee: *See*—
McRae, John R.

Legge, Walter G., Brooklyn, N. Y. Footwear with body grounding means. 2,650,327, Aug. 25.

Lehman, Henry R. Greenville, Miss. Scroll bending apparatus. 2,649,887, Aug. 25.

Lenz, Konrad: *See*—
Zeller, Karl, and Lenz.

Les Usines de Melle (Societe Anonyme), assignee: *See*—
Mention, Maurice, and Mercier.

Lewin, Mordcha M., New York, N. Y. Adjustable bed mattress. 2,649,595, Aug. 25.





Lewis, Howard B., G. M. Larson, and H. Field, Jr., Los Angeles, Calif. Tablet dispenser. 2,649,994, Aug. 25.

Leyton, Eric M., London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Synchronizing of an induction motor. 2,650,335, Aug. 25.

Llerley, John T., Los Angeles, Calif. Automatic control of the movement of picture-making equipment. 2,649,835, Aug. 25.

Lilley, William F., J. E. Snyder, and J. F. Stalter, assignors to Wingfoot Corporation, Akron, Ohio. Apparatus for trimming wrapped objects. 2,649,909, Aug. 25.

Lilly, Ell, and Company, assignee: *See*—
Jones, Reuben G.

Linder, Victor F., assignor to A. T. O'Neil, Lake City, Minn. Stop device for rod sheers. 2,649,913, Aug. 25.

Lingane, James J., assignor of one-third to K. W. Brown, Cambridge, Mass. Automatic electrometric titration apparatus. 2,650,256, Aug. 25.

Link, Karl P.: *See*—
Seldman, Martin, and Link.

Lloyd, Donald, Oklahoma City, Okla, assignor by mesne assignments, to Tuboscope Company, Harris County, Tex. Magnetic testing apparatus. 2,650,344, Aug. 25.

Lohr, Raymond J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Wheeled toy with automatically steering cyclist. 2,649,805, Aug. 25.

Loney, Hugh W., assignor to C. G. Conn Ltd., Elkhart, Ind. Bass clarinet. 2,649,829, Aug. 25.

Long, Crawford G., near Birmingham, Ala. Window sash holder and lock. 2,650,125, Aug. 25.

Loomis, Austin C., Plainville, assignor to The Stanley Works, New Britain, Conn. Track and bracket. 2,649,612, Aug. 25.

Louisiana State University and Agricultural and Mechanical College, Board of Supervisors of, assignee: *See*—
Horton, Paul M., and Keller.

Loveland, Pratt R., Chicago, Ill. Combined sponge and squeegee window cleaning device. 2,649,600, Aug. 25.

Lozes, John P., Jr., New Orleans, La. Apparatus for locating cable faults. 2,650,345, Aug. 25.

Lucas, Joseph, Limited, assignee: *See*—
Lawrence, Owen N., Harris, and Fleming.

Lundeen, Chester A., assignor to Byron Jackson Co., Los Angeles, Calif. Pipe gripping mechanism for power tongs. 2,650,070, Aug. 25.

Lundstrom, Ida, St. Louis, Mo. Curtain rod bracket carrier. 2,650,053, Aug. 25.

Luxema S. A., assignee: *See*—
Ledrut, Jules H. T.

Lyle, Lewis J., Newton, Miss. Key type can opener and tear strip extractor. 2,649,990, Aug. 25.

Lynch Corporation, assignee: *See*—
Rapp, Earl J.
Sandberg, Oscar.

Lyon, George A., Detroit, Mich. Wheel structure and balancing same. 2,650,133, Aug. 25.

Lyon, George A., Detroit, Mich. Wheel cover. 2,650,134, Aug. 25.

Lyon, George A., Detroit, Mich. Wheel cover. 2,650,135, Aug. 25.

M and M Wood Working Company, assignee: *See*—
Bennett, Elbert V., and Renn.
Renn, Harrell.
Thompson, Walter S., and Renn.

Maccaferri, Mario, Rye, N. Y. Reed tester. 2,649,708, Aug. 25.

Maccaferri, Mario, Rye, assignor to French American Reeds Manufacturing Co., Inc., New York, N. Y. Sounding board for stringed musical instruments. 2,649,827, Aug. 25.

Maccaferri, Mario, Rye, N. Y. Fretted finger board for stringed musical instruments and making the same. 2,649,828, Aug. 25.

MacDonald, Robert N., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polymers. 2,650,214, Aug. 25.

Macek, Thomas J., Irvington, assignor to Merck & Co., Inc., Rahway, N. J. Production of quinine-penicillin. 2,650,217, Aug. 25.

Mackay Radio and Telegraph Company, assignee: *See*—
Browning, Samuel D.

MacLagan, James A., Forest Park, and T. A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee. Foul detecting device. 2,650,095, Aug. 25.

Maclay, William R., and E. G. Spyridakis, Athens, Pa., assignors to Ingersoll-Rand Company, New York, N. Y. Core retainer for dynamoelectric machines. 2,650,317, Aug. 25.

Maher, William A., Detroit, Mich. Windshield visor with center supporting bracket. 2,650,130, Aug. 25.

Mahrt, Louis R., trustee, assignee: *See*—
Noodleman, Samuel.

Maico Company, Incorporated, The, assignee: *See*—
Walters, Warren R.

Mangan, Paul C.: *See*—
Neal, Robert A., and Mangan.

Mangan, Paul C., Ridley Park, and R. A. Neal, Media, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Selective fuel control for turbojet power plants. 2,649,905, Aug. 25.

Mankowich, Ivan, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of ketone-diarylamine condensates. 2,650,252, Aug. 25.

Manning, Maxwell & Moore, Incorporated, assignee: *See*—
Tobis, Robert A.

Mansfield Sanitary Pottery, Inc., assignee: *See*—
Smith, Harry F.

Marchand, Adolph, Jackson Heights, N. Y. Extensible towel bar. 2,649,971, Aug. 25.

Marchant Calculators, Inc., assignee: *See*—
Avery, Harold T.

Marcy, Grosvenor D., Newton, assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass. Apparatus and process for vulcanizing strip stock. 2,649,617, Aug. 25.

Markovich, William J., Detroit, Mich. Ratchet operated socket wrench. 2,649,823, Aug. 25.

Marks, Charles L., Pittsfield, Mass., assignor to General Electric Company. High-pressure seal for cable end terminals. 2,650,259, Aug. 25.

Markwood, Paul W., Lowland, Tenn., assignor to American Enka Corporation, Enka, N. C. Apparatus for use in unwinding yarn. 2,650,042, Aug. 25.

Marley Company, Inc., The, assignee: *See*—
Mart, Leon T.

Marshall, Frank C.: *See*—
Christie, Soren L., and Marshall.

Martin, Edward G., assignee: *See*—
Chase, Robert S.

Mart, Leon T., Mission Township, Johnson County, assignor to The Marley Company, Inc., Kansas City, Kans. Cooling tower having splash deck supported basin. 2,650,082, Aug. 25.

Martin, Carl W., C. W. Beck, and J. W. Pick, Middletown, Ohio, assignors to Armco Steel Corporation. Sheet cutting and inspecting means. 2,650,091, Aug. 25.

Martin, Philip W., Huntington Park, Calif. Apparatus for logging wells while drilling. 2,650,067, Aug. 25.

Martin, Wilhelm, and W. Heynen, Grebben, Kreis Heinsberg, assignors to Firma Vereinigte Glanzstoff-Fabriken A. G., Wuppertal (Elberfeld), Germany. Reconditioning the extruding face of spinnerettes. 2,649,670, Aug. 25.

Martin, William E., Kewanee, Ill. Spring shackle. 2,650,089, Aug. 25.

Martin, William M., San Mateo, Calif., W. F. Pillnik, Harvey, and D. E. Wobbe, Maywood, Ill., assignors to American Can Company, New York, N. Y. Washing the side seams of can bodies. 2,650,178, Aug. 25.

Marx, Louis, & Company, Inc., assignee: *See*—
Lohr, Raymond J.

Masland, C. H., & Sons, assignee: *See*—
Harding, John H.

Masoner, William J., Chicago, Ill. Support. 2,650,056, Aug. 25.

Mattel Creations, Inc., assignee: *See*—
Duncan, Theodore R.

Matthews, Russell B., Wauwatosa, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Alternating current drop-out means for thermoelectric safety shutoff devices. 2,649,767, Aug. 25.

Mavity, Julian M., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Production of phosphoric acid catalyst. 2,650,201, Aug. 25.

Maxwell, Willard A., Portland, Oreg. Wrench head with coaxial jaw pivot and handle connection. 2,649,824, Aug. 25.

Mayer, Mayer, Jr., and G. J. Kyame, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Attachment for weaving high density fabrics. 2,649,864, Aug. 25.

McCaleb, Albert G., assignee: *See*—
Minor, Charles G.

McCaleb, Ruth F., executrix: *See*—
Minor, Charles G.

McCammant, Leonard H., assignor to Geo. D. Roper Corporation, Rockford, Ill. Mercury switch mounting. 2,650,274, Aug. 25.

McCandless, Field F., assignor of thirty-three and one-third percent to A. Gollob and thirty-three and one-third percent to F. T. Walton, Houston, Tex. Hot dog barbecue and bun warmer. 2,649,852, Aug. 25.

McClellan, Marcus E., Ottumwa, assignor to Deere Manufacturing Co., Dubuque, Iowa. Bale or bundle handling means for baling presses or the like. 2,649,945, Aug. 25.

McColpin-Christie Corp., assignee: *See*—
Christie, Soren L., and Marshall.

McCutchen, Joseph K., Ellijay, Ga. Sewing and tufting fabric sections. 2,649,748, Aug. 25.

McDuffie, Harold F., Jr., Oak Ridge, Tenn., and D. E. Cooper, Syracuse, assignors to Bristol Laboratories Inc., Onondaga County, N. Y. Esters of penicillin from active halogen compounds. 2,650,218, Aug. 25.

McElroy, Lawrence E.: *See*—
Cole, Joseph W., and McElroy.

McGarry, James W., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Valve-plug unit for drain assemblies. 2,649,592, Aug. 25.

McGraw Electric Co., assignee: *See*—
Stoelting, Herman O.
Gronowski, Edward C.
Steinmayer, Alwin G.
Volgovskoy, Boris.
Wood, Russell A.

McIlvaine, Robert L., and J. L. Yates, Glencoe, assignors, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill. Apparatus for collecting dust. 2,649,924, Aug. 25.

McMillan, Harold L., assignor to Cohoes Envelope Company, Inc., Cohoes, N. Y. Parcel bag. 2,650,016, Aug. 25.
McRae, John R., assignor of one-half to P. A. Lefebvre, Cornwall, Ontario, Canada. Electronic control for flushing apparatus. 2,649,591, Aug. 25.
McVicker, Graham D., San Diego, Calif. Adjustable coat hanger. 2,650,007, Aug. 25.
Mecco, Jerry M., Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Printing assistants for vat colors comprising zirconium salts. 2,650,152, Aug. 25.
Medlin, William V., Albany, assignor to Shell Development Company, Emeryville, Calif. Apparatus for stripping and regenerating spent adsorptive powders. 2,650,155, Aug. 25.
Meijer, Hendrik W., Veendam, assignor to N. V. Octrooien Maatschappij "Activit," Amsterdam, Netherlands. Resin purification of sugar solutions. 2,650,177, Aug. 25.
Meisenheimer, Marianne: *See*—
Hecht, Gerhard, Henecka, and Meisenheimer.
Meisheimer, Robert T., Hollywood, Calif. Balneotherapy apparatus. 2,649,861, Aug. 25.
Mention, Maurice and J. Mercier, Melle, assignors to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France. Treating methyl acetate. 2,650,249, Aug. 25.
Mercier, Jules: *See*—
Mention, Maurice, and Mercier.
Merck & Co., Inc., assignee: *See*—
Macek, Thomas J.,
Novello, Frederick C.
Pfister, Karl, III, and Weijlard.
Sprague, James M.
Meredith, Dennis L.: *See*—
Meredith, Frederick W., Sudworth, Meredith, and Righton.
Meredith, Frederick W., J. Sudworth, D. L. Meredith, and D. W. Righton, assignors to S. Smith & Sons (England) Limited, Cricklewood, London, England. Automatic aircraft control system. 2,650,338, Aug. 25.
Mettler, John D.: *See*—
Carosella, Michael C., and Mettler.
Meyers, Charles J., assignor to Tubing Seal-Cap, Inc., Los Angeles, Calif. Safety arrangement for presses. 2,649,943, Aug. 25.
Meyers, Charles J., assignor to Tubing Seal-Cap, Inc., Los Angeles, Calif. Switchless safety arrangement for presses. 2,649,944, Aug. 25.
Middleton, Marshall, Jr., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Grid-controlled ignitor for ignitrons. 2,650,310, Aug. 25.
Midwest Research Institute, assignee: *See*—
Goland, Martin, and Wickersham.
Miles, Selwyn P.: *See*—
Morse, John W., Miles, and Bell.
Miller, Glen E., Marion, Iowa. Adjusting mechanism for the digging boom and scraper boom of endless type ditching machines. 2,649,792, Aug. 25.
Miller, Ira A., assignor to Otis Engineering Corporation, Dallas, Tex. Apparatus for treating wells. 2,649,915, Aug. 25.
Miller, Joseph B., Mobile, Ala. Pharmaceutical preparations. 2,649,918, Aug. 25.
Miller, Joseph J., assignor to P. A. Sussman and E. H. Jacobs, San Francisco, Calif. Planer attachment for rotary saws. 2,649,872, Aug. 25.
Miller, Ralph, assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Control means for internal-combustion engines. 2,649,847, Aug. 25.
Miller, Walter A., Bloomfield, N. J., assignor to Union Carbide and Carbon Corporation. Casting expanded plastics. 2,649,620, Aug. 25.
Millhuff, Gale E., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for generating gears. 2,649,710, Aug. 25.
Milne, John N., Epsom Downs, D. Faulkner, Epsom, and C. E. Hollis, Ewell, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Polymeric material derived from N-methylol paravinyl benzamide. 2,650,210, Aug. 25.
Milne, John N., Epsom Downs, D. Faulkner, Epsom, and C. E. Hollis, Ewell, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. N-methylol-p-vinyl benzamide. 2,650,250, Aug. 25.
Minor, Charles G., deceased, Evanston, Ill., assignor of one-half to A. G. McCaleb, Evanston, Ill.; H. H. Gmelner, executor of said C. G. Minor, R. F. McCaleb, executrix of said A. G. McCaleb, deceased. Refrigerator cabinet. 2,649,699, Aug. 25.
Milwaukee Gas Specialty Company, assignee: *See*—
Matthews, Russell B.
Monaghan, Frank P., New York, N. Y. Doll or manikin joint. 2,649,800, Aug. 25.
Monnig, George O., Hampton, Va. Stabilizing device for vehicles and other purposes. 2,650,107, Aug. 25.
Montclair Research Corporation, assignee: *See*—
Rust, John B., and Canfield.
Mooney, Ronald B.: *See*—
Ellis, Amy S., and Mooney.
Moore Electronic Laboratories, Incorporated, assignee: *See*—
Bordewieck, Robert W.
Moore, George A., assignor to National Biscuit Company, New York, N. Y. Packaging machine. 2,650,010, Aug. 25.
Moore, Stuart G.: *See*—
Amsbary, Frank C., Jr., and Moore.
More, David: *See*—
Fulton, Hugh W., Stead, and More.
Morin, Louis H., Bronx, N. Y. Two-way separable fastener stringer. 2,649,638, Aug. 25.
Morrill, Wayne J., Fort Wayne, Ind. Fan support housing. 2,650,020, Aug. 25.
Morrill, Wayne J., Garrett, Ind. Housing for fan support. 2,650,021, Aug. 25.
Morse, John W., Glastonbury, S. P. Miles, Wethersfield, and R. A. Bell, Yalesville, Conn., assignors, by mesne assignments, to Titeflex, Inc., Newark, N. J. Engine control system for automotive vehicles. 2,649,908, Aug. 25.
Morseth, Harry, Everett, Wash. Scabbard. 2,650,008, Aug. 25.
Moslo, Ernest F., Cleveland Heights, Ohio. Molding machine. 2,649,621, Aug. 25.
Motor Wheel Corporation, assignee: *See*—
Hunt, J. Harold.
Motorola, Inc., assignee: *See*—
Schlesinger, Kurt.
Taylor, Nell B.
Mountjoy, Garrard, Canandaigua, N. Y., assignor to Stromberg-Carlson Company. Dual purpose carrier wave receiver. 2,650,265, Aug. 25.
Moyer, Frederick D., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Seal hanger for floating roof tanks. 2,649,985, Aug. 25.
Mucher, George J., Rochester, assignor to Clarostat Mfg. Co., Inc., Dover, N. H. Control. 2,650,270, Aug. 25.
Mugler, Charles M., North Hollywood, Calif. Folding table and means for detachably connecting the same to a support. 2,650,146, Aug. 25.
Munster, Allen C., assignor to Philco Corporation, Philadelphia, Pa. Delay controlled pulse generator. 2,650,357, Aug. 25.
Munz, Jaroslav, and J. Tichopad, Toronto, Ontario, Canada. Automatic vending machine. 2,650,149, Aug. 25.
Murray, John F., Macedonia, and J. C. Osborne, Cleveland Heights, assignors to Thompson Products, Inc., Cleveland, Ohio. High-pressure pump. 2,649,740, Aug. 25.
Muskegon Piston Ring Company, assignee: *See*—
Smith, Gaylord E.
Muskin, Nathan, Omaha, Nebr. Dispensing container with displaceable bottom. 2,649,995, Aug. 25.
Muszynski, Chester W., Unionville, Conn. Coaster for furniture legs. 2,649,611, Aug. 25.
N. V. Octrooien Maatschappij "Activit," assignee: *See*—
Meijer, Hendrik W.
National Biscuit Company, assignee: *See* —
Moore, George A.
National Cash Register Company, The, assignee: *See*—
Ferrin, Kenneth S.
Helgeson, Angus G.
National Furniture Manufacturing Company, Inc., assignee: *See*—
Quakenbush, Howard M.
National Supply Company, The, assignee: *See*—
Picard, John B.
Tait, Howard C.
Young, Forrest J.
Nawman, Rollie B., assignor to Benner-Nawman, Inc., Oakland, Calif. Flight member and mounting therefor. 2,649,954, Aug. 25.
Neal, Robert A.: *See*—
Mangan, Paul C., and Neal.
Neal, Robert A., Media, and P. C. Mangan, Ridley Park, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Selective fuel control apparatus for turbojet engines. 2,649,906, Aug. 25.
Nelsen, Marvin G., Skokie, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Coin-controlled crediting and debiting apparatus for vending machines. 2,649,947, Aug. 25.
Nelson, Evan H.: *See*—
Francis, Victor J., and Nelson.
Nelson, Harold L., Oakland, Calif. Cheese slicing utensil. 2,649,658, Aug. 25.
Nelson, Joseph F., Rahway, and A. H. Gleason, Westfield, N. J., assignors to Standard Oil Development Company. Synthetic drying oils and preparing same. 2,650,209, Aug. 25.
Nelson, Roy: *See*—
Harker, George A., Knetl, and Nelson.
Neville, James J.: *See*—
Rhodes, Thomas J., and Neville.
Newhouse, Paul D., Salix, Iowa, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Conveyer system for induction heating. 2,650,200, Aug. 25.
Newmaster, Walter H., Ottumwa, assignor to Deere Manufacturing Co., Dubuque, Iowa. Wheel and shaft mounting for side delivery rakes. 2,649,682, Aug. 25.
New York Air Brake Company, The, assignee: *See*—
Klein, William F.
Niles-Bement-Pond Co., assignee: *See*—
Chandler, Milton E.



Nilsson, Johan G., Appelviken, assignor to Arenco Aktiebolag, Stockholm, Sweden. Apparatus for delivering liquids to receptacles. 2,650,013, Aug. 25.
Noble Co., assignee: *See*—
Farley, Philip S.
Sebutte, William H.
Noe, Harold C., Upper Montclair, assignor to Kidde Manufacturing Co., Inc., Bloomfield, N. J. Variable-speed drive for fabric take-up roll of warp knitting machines. 2,649,811, Aug. 25.
Noel, Edward R., Cleveland Heights, Ohio, assignor to General Electric Company. Lamp unit and support structure therefor. 2,650,321, Aug. 25.
Noodleman, Samuel, assignor to L. R. Mahrt and D. R. Laughter, as trustees for the Standard Dayton Corporation, Dayton, Ohio. Electric motor and motor control means. 2,650,336, Aug. 25.
Norden, Alexander R., Maywood, assignor to Federal Electric Products Company, Newark, N. J. Automatic circuit breaker. 2,650,281, Aug. 25.
Nordberg Manufacturing Company, assignee: *See*—
Miller, Ralph.
North American Aviation, Inc., assignee: *See*—
Henrichsen, Knut.
Slater, John M., Benson, and Freebairn.
North & Judd Manufacturing Company, assignee: *See*—
Freysinger, John B.
Nosek, Jaroslav: *See*—
Danek, Otto, and Nosek.
Novello, Frederick C., Prospect Park, Pa., assignor to Merck & Co., Inc. Oxy-phenyl cyclohexane-and cyclohexene-carboxylic acids and derivatives. 2,650,243, Aug. 25.
Obrock, Walter H., St. Louis, Mo. Burglar alarm. 2,649,731, Aug. 25.
O'Callaghan, Jerome J., Skokie, Ill., assignor to The Rauland Corporation. Mixing and dispensing a luminescent coating composition. 2,650,199, Aug. 25.
Achwat, Joseph F., Garfield Heights, Ohio, assignor to General Electric Company. Apparatus for bending tubular lamps. 2,649,660, Aug. 25.
O'Connor, Bernard E.: *See*—
Hufferd, George H., and O'Connor.
Oding, Carl A., Alameda, assignor to Planamatic Corporation, Oakland, Calif. Rotary hydraulic coupling. 2,649,689, Aug. 25.
Oding, Carl A., Alameda, assignor to Planamatic Corporation, Oakland, Calif. Variable speed rotary fluid coupling. 2,649,690, Aug. 25.
Oehler, William P., and C. H. Youngberg, assignors to Deere & Company, Moline, Ill. Spring pressure device for planting attachments. 2,649,725, Aug. 25.
Oehler, William P., assignor to Deere & Company, Moline, Ill. Coupling for lift type draft devices. 2,650,103, Aug. 25.
O'Gorman, William F., assignor to L. H. Stone, New York, N. Y. Exhibiting device. 2,649,797, Aug. 25.
Olin, John F., Grosse Ile, Mich., assignor to Sharples Chemicals Inc. Trichloro methyl thiocyanate and preparing same. 2,650,240, Aug. 25.
Oliver, Alanna R., assignee: *See*—
Jeanneau, Emile.
O'Loughlin, Marion E., Los Angeles County, Calif. Face lifting device. 2,649,857, Aug. 25.
Olson, Carl E., Minneapolis, Minn. Window fastener. 2,650,124, Aug. 25.
Olson, Holly M., assignor to Sealed Power Corporation, Muskegon, Mich. Piston ring. 2,650,143, Aug. 25.
O'Neil, Albert T., assignee: *See*—
Linder, Victor F.
O'Neil, Stephen J., Lexington, Mass. Tumbleproof, spillproof, or gimbal-lock-free gyro. 2,649,809, Aug. 25.
Orndoff, John D., Santa Fe, N. Mex., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind. Control apparatus. 2,650,329, Aug. 25.
Ortega, Mario D., Asharoken Beach, N. Y. Vacuum cleaning water separator. 2,649,927, Aug. 25.
Osborne, James C.: *See*—
Murray, John F., and Osborne.
Osgian, James M., Farmington, Mich. Direction indicator switch mechanism. 2,650,273, Aug. 25.
Otis Engineering Corporation, assignee: *See*—
Miller, Ira A.
Otis, Herbert C., Dallas, Tex. Flow guiding device. 2,649,914, Aug. 25.
Ott, Walter A., assignor, by mesne assignments, to P. W. Howard, Cleveland, Ohio. Washing machine with coacting motor drive and drain control. 2,649,705, Aug. 25.
Owens-Corning Fiberglas Corporation, assignee: *See*—
Biefeld, Lawrence P.
Paget, Win W., Michigan City, Ind., assignor to Joy Manufacturing Company. Compressor. 2,650,018, Aug. 25.
Palmer, Arthur E., Hartford, Conn., assignor to Wurton Machine Company, Philadelphia, Pa. Apparatus for stringing tobacco leaves. 2,649,977, Aug. 25.
Palmer, Harry A., Birmingham, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Apparatus for forming rims. 2,649,886, Aug. 25.
Pantechnikoff, Jacques I., Princeton, N. J., assignor to Radio Corporation of America. Semiconductor photosensitive device. 2,650,258, Aug. 25.
Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Multirow crop harvester. 2,649,677, Aug. 25.
Parks, Asbury S., Houston, Tex. Liquid level control apparatus. 2,649,771, Aug. 25.
Parris, Cecil L., assignor to Parris Mfg. Co., Clarinda, Iowa. Platul construction. 2,649,849, Aug. 25.
Parris Mfg. Co., assignee: *See*—
Parris, Cecil L.
Pass & Seymour, Inc., assignee: *See*—
Keillen, Saul, and Discenza.
Patent Button Company, The, assignee: *See*—
Purinton, Forrest G.
Patrick, Russell L.: *See*—
Schlenk, Carl F., Cheeseman, and Patrick.
Patton Clay Manufacturing Co., Inc., assignee: *See*—
Petresky, John, Jr.
Paxton, Gerald C., assignor to General Nailing Machine Corporation, Sanger, Calif. Mechanism for automatically feeding box ends in nailing machines. 2,649,582, Aug. 25.
Pedersen, Haakon O., Philadelphia, and J. A. Rydmark, Lansdowne, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gas turbine apparatus. 2,650,017, Aug. 25.
Pelton, Geraldine V., Miami, Fla. Dispensing container and holder for soap containing boxes and the like. 2,649,098, Aug. 25.
Penick & Ford, Ltd., Incorporated, assignee: *See*—
Kesler, Carl C., and Hjermstad.
Penn, Julius H., Dunmore, Pa., and P. R. Powell, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for processing cordage. 2,649,822, Aug. 25.
Pennsylvania Company for Banking and Trusts, The, administrator: *See*—
Bruce, Ernest G.
Perfection Stove Company, assignee: *See*—
Schlenk, Carl F., Cheeseman, and Patrick.
Perkins, De Mar B., Monticello, Utah. Jack bracket. 2,650,055, Aug. 25.
Perkins, Henry G.: *See*—
Zinn, Clarence A., and Perkins.
Peters, James B., Lynn, Mass. Breech mechanism for firearms. 2,649,800, Aug. 25.
Peters, Wilhelm F., Frankfurt am Main-Niederursel, and J. Biesinger, Frankfurt am Main, Germany, assignors to V. J. Delhomme, Carencro, La. Burner for vulcanizing apparatus. 2,649,851, Aug. 25.
Peterson, Ernest A., Oakland, Calif. Pivoted lever type line clamp. 2,649,635, Aug. 25.
Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Decoder for pulse code modulation communication systems. 2,650,299, Aug. 25.
Petisi, Joseph P.: *See*—
Bootlie, James H., and Petisi.
Petresky, John, Jr., assignor to Patton Clay Manufacturing Co., Inc., Patton, Pa. Die for making elbow pipe. 2,649,642, Aug. 25.
Petsch, Harold A., Minneapolis, Minn. Duplex brush having duo sections. 2,649,598, Aug. 25.
Pfankuch, Leo A., La Mesa, assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Cushion and manufacturing the same. 2,649,900, Aug. 25.
Pfister, Karl, III, Scotch Plains, and J. Weijlard, Westfield, assignors to Merck & Co., Inc., Rahway, N. J. Preparing 2-amino-quinoxaline compounds. 2,650,221, Aug. 25.
Pfister, Karl, III, Westfield, and J. Weijlard, Maplewood, assignors to Merck & Co., Inc., Rahway, N. J. 2-amino-3,4-dihydroquinoxaline compounds and their preparation. 2,650,222, Aug. 25.
Pfizer, Chas., & Co., Inc., assignee: *See*—
Carboni, Rudolph A., and Regna.
Philco Corporation, assignee: *See*—
Munster, Allen C.
Phillips Laboratories, Inc., assignee: *See*—
Koppius, Otto G.
Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,650,144, Aug. 25.
Phillips Petroleum Company, assignee: *See*—
Condon, Francis E., and Burgoyne.
Prentice, John H.
Phillips, Robert A., La Habra Heights, assignor to Lane-Wells Company, Los Angeles, Calif. Contact pin igniter. 2,649,736, Aug. 25.
Piasecki Helicopter Corporation, assignee: *See*—
Vanderlip, Edward G.
Picard, John B., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Drawworks. 2,650,064, Aug. 25.
Picard, John A., Tonawanda, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Molding synthetic linear polyesters. 2,649,622, Aug. 25.
Pick, Joseph W.: *See*—
Martin, Carl W., Beck, and Pick.
Pickman, Edgard, Schaerbeek-Brussels, assignor to Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, Liege, Belgium. Method and device for driving tubular bodies into the ground by means of fluid jets. 2,649,694, Aug. 25.

Pieczonka, Peter J., Chicago, Ill. Signal device associated with windshield wiper. 2,650,355, Aug. 25.

Pierazzuoli, Mario: *See*—
Sesini, Enrico, and Pierazzuoli.

Pierce, John B., Foundation, assignee: *See*—
Hitch, Robert A., and Da Fano.

Pillnik, Walter F.: *See*—
Martin, William McK., Pillnik, and Wobbe.

Pinto, Michael, assignor to Douglas Tool Company, Detroit Mich. Shear cutter. 2,649,648, Aug. 25.

Pioneer Specialty Company, assignee: *See*—
Geyer, Eugene P.

Pioneer Trust & Savings Bank of Chicago, trustee, assignee: *See*—
MacLagan, James A., and Walsh.

Piper, Glenn T., assignor to The Hoover Company, North Canton, Ohio. Absorptino-refrigerating apparatus. 2,649,700, Aug. 25.

Pirelli Societa per Azioni, assignee: *See*—
Sesini, Enrico, and Pierazzuoli.

Planamatic Corporation, assignee: *See*—
Oding, Carl A.

Plastaket Manufacturing Company, assignee: *See*—
Woock, Walter R. J.

Polk, Ralph, Jr.: *See*—
Polk, Ralph, Sr., and Ralph Polk, Jr.

Polk, Ralph, Sr., and Ralph Polk, Jr., Tampa, Fla., assignors, by mesne assignments, to Food Machinery and Chemical Corporation, San Jose, Calif. Citrus fruit juice extracting method and apparatus. 2,649,731, Aug. 25.

Polytechnic Research and Development Company Incorporated, assignee: *See*—
Gaffney, Francis J., and Finke.

Posthumus, Klaas, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Arrangement for converting direct voltages into alternating voltages. 2,650,340, Aug. 25.

Poston, Lester E., Algood, Tenn. Trap hook. 2,649,802, Aug. 25.

Powell, Paul R.: *See*—
Penn, Julius H., and Powell.

Powell, Paul R., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing filamentary articles. 2,649,867, Aug. 25.

Products and Licensing Corporation, assignee: *See*—
Toulon, Pierre M. G.

Products Manufacturing Co., Inc., assignee: *See*—
Tawney, Chester W., Demarco, and Herrick.

Province, John H., Oklahoma City, Okla., assignor to Phillips Petroleum Company. Double diaphragm unit. 2,649,843, Aug. 25.

Publicker Industries Inc., assignee: *See*—
Stein, Jacob L.

Pukt, Joseph J., Randolph, Mass., assignor to Armstrong Cork Company, Lancaster, Pa. Reversing mechanism. 2,649,810, Aug. 25.

Purdue Research Foundation, assignee: *See*—
Bray, Ralph, and Lark-Horovitz.

Purdy, Kenneth C., Vista, Calif. Means for marketing goods. 2,649,930, Aug. 25.

Purinton, Forest G., Middlebury, assignor to The Patent Button Company, Waterbury, Conn. Machine attached button. 2,649,633, Aug. 25.

Quakenbush, Howard M., assignor to National Furniture Manufacturing Company, Inc., Evansville, Ind. Upholstery fastener construction. 2,649,898, Aug. 25.

Radiart Corporation, The, assignee: *See*—
Zarobsky, Charles A., and Seybold.

Radio Corporation of America, assignee: *See*—
Pantchechnikoff, Jacques I.
Weimer, Paul K.

Rahn, Henry W., Corpus Christi, Tex., assignor to Columbia-Southern Chemical Corporation. Well drilling composition and manufacture thereof. 2,650,194, Aug. 25.

Rahn, Henry W., Corpus Christi, Tex. Well drilling composition and manufacture thereof. 2,650,196, Aug. 25.

Rahn, Henry W., Corpus Christi, Tex. Well drilling composition and manufacture thereof. 2,650,197, Aug. 25.

Raleigh, John F., Peshtigo, Wis. Attachment for silo filling machines. 2,650,136, Aug. 25.

Ramos, Pedro S., assignor to International Register Company, Chicago, Ill. Electrical terminal. 2,650,286, Aug. 25.

Rancourt, Alphonse, Pittsfield, Mass. Elevator mechanism. 2,649,934, Aug. 25.

Rand, William W., Santa Barbara, assignor to Union Oil Company of California, Los Angeles, Calif. Coring method and apparatus. 2,650,068, Aug. 25.

Rand, William W., Santa Barbara, assignor to Union Oil Company of California, Los Angeles, Calif. Submarine core sampling. 2,650,069, Aug. 25.

Ransburg Electro-Coating Corp., assignee: *See*—
Orndoff, John D.

Rapp, Earl J., Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Product transfer mechanism. 2,649,952, Aug. 25.

Rappl, Anton: *See*—
Scinta, Anthony C., and Rappl.

Ras, Max, Zurich, Switzerland. Rotary multicolor transfer printing machine. 2,649,734, Aug. 25.

Rasor, John P., San Gabriel, Calif. Apparatus and method for testing pipe coating. 2,650,346, Aug. 25.

Rassieur, Theodore E., University City, assignor to Central Mine Equipment Company, St. Louis, Mo. Mining drill. 2,650,071, Aug. 25.

Raught, Arthur V., Birmingham, assignor to Dearborn Motors Corporation, Highland Park, Mich. Nonrigid frame mounting for fitt type implements. 2,649,722, Aug. 25.

Rauland Corporation, The, assignee: *See*—
O'Callaghan, Jerome J.

Rausch, Albert R., East Greenbush, assignor to Sterling Drug Inc., New York, N. Y. Fragile article packaged in popped corn. 2,649,958, Aug. 25.

Raver, Francis M., assignor to York Corporation, York, Pa. Starting circuit for low torque variable-speed motors. 2,650,337, Aug. 25.

Ray, Robert W., Dearborn, Mo. Bale sled. 2,649,982, Aug. 25.

Read, Robert E., Glens Falls, assignor to Union Bag & Paper Corporation, New York, N. Y. Automatic packaging machine. 2,650,058, Aug. 25.

Reck, Peter C., and L. J. Stern, assignors to Sperti Faraday Inc., Adrian, Mich. Vibrator switch construction. 2,650,277, Aug. 25.

Redmond, John A.: *See*—
Corteggiano, William L., and Redmond.

Reese, George E., Wallingford, and J. L. Larkin, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Preparation of lubricating oil. 2,650,188, Aug. 25.

Regna, Peter P.: *See*—
Carboni, Rudolph A., and Regna.

Reich, Kurt, Nurtingen-Zizishausen, and G. Walser, Reutlingen-Betzingen, assignors to Firma Karl M. Reich, Nurtingen, Wurttemberg, Germany. Electrically driven hand planing machine. 2,649,873, Aug. 25.

Reichard, Wade H., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. 2,650,295, Aug. 25.

Reinecke, Helen A., assignee: *See*—
Reinecke, Howard E.

Reinecke, Howard E., La Crescenta, assignor to H. A. Reinecke, Glendale, Calif. Sprinkler type irrigating device. 2,650,132, Aug. 25.

Reliable Electric Company, assignee: *See*—
Ripley, Harold C., and Saul.

Remington Arms Company, Inc., assignee: *See*—
Reynolds, Warren S., and Turner.

Remington Rand Inc., assignee: *See*—
Streng, Jan.

Remmen, Jorgen, Pittsburgh, Pa. Power feed mechanism for machine tools. 2,649,646, Aug. 25.

Renn, Harrell: *See*—
Bennett, Elbert V., and Renn.
Thompson, Walter S., and Renn.

Renn, Harrell, Albany, assignor to M and M Wood Working Company, Portland, Oreg. High-frequency glue curing press. 2,649,877, Aug. 25.

Revere Copper and Brass Incorporated, assignee: *See*—
Spencer, Roland T.
Welden, William A.

Reynolds, Peter W., and A. A. L. Chullis, Norton-on-Tees, assignors to Imperial Chemical Industries Limited. Preparation of catalysts. 2,650,204, Aug. 25.

Reynolds, Warren S., Westport, Conn., and J. R. Turner, Glen Mills, Pa., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Ammunition assembling machine. 2,649,832, Aug. 25.

Reynolds, Warren S., Westport, Conn., and J. R. Turner, Glen Mills, Pa., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Gauging and assorting device. 2,649,961, Aug. 25.

Rhodes, Thomas J., C. and J. J. Neville, Maywood, N. J., assignors to United States Rubber Company, New York, N. Y. Method and apparatus for extrusion of plastics having elastic memory. 2,649,618, Aug. 25.

Rice, Frederick H., Van Nuys, assignor to Capitol Records, Inc., Hollywood, Calif. Display rack for phonograph records and the like. 2,649,968, Aug. 25.

Rice, John W., Grand Prairie, Tex. V belt with improved fastener means. 2,649,631, Aug. 25.

Ricks, Bernard E.: *See*—
Booth, James H., and Ricks.

Ridge, Harry D.: *See*—
Hennich, George W., and Ridge.

Ried, Robert C.: *See*—
Kuster, Otto R., and Ried.

Riesinger, Josef: *See*—
Peters, Wilhelm F., and Riesinger.

Righton, David W.: *See*—
Meredith, Frederick W., Sudworth, Meredith, and Righton.

Ripley, Harold C., and J. J. Saul, assignors to Reliable Electric Company, Chicago, Ill. Wire grip. 2,650,118, Aug. 25.

Ritter, Alexander S., Brielle, N. J. Plant shipping container. 2,649,807, Aug. 25.

Ritzenthaler, Bruce A.: *See*—
Donath, Edwin W., and Ritzenthaler.

Robbins, James S., Highland Park, assignor to Goodman Manufacturing Company, Chicago, Ill. Coal drill. 2,650,083, Aug. 25.

Robbins Mills, Incorporated, assignee: *See*—
Adams, Hal M.

Robinson, Charles F., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometer. 2,650,306, Aug. 25.





Rockwell, Edward A., Shaker Heights, Ohio. System of auxiliary carburetion for internal-combustion engines. 2,650,081, Aug. 25.

Rodriguez, Luis M. I., Marianao, Havana, Cuba. Sugar crystallizer. 2,650,175, Aug. 25.

Roemer, John J., Stamford, and D. W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Triazine derivative. 2,650,220, Aug. 25.

Ronning, Adolph, Minneapolis, Minn. Steerable trailer front wheel mechanism. 2,650,100, Aug. 25.

Roper, Geo. D., Corporation, assignee: *See*—
Hollman, Peter I.
McCammant, Leonard H.

Rosenbeck, Soren, Bridgeport, Conn. Automatic razor honer. 2,649,666, Aug. 25.

Royer, John E. E., Spokane, Wash. Surgical instrument. 2,649,860, Aug. 25.

Ruemelin, Richard, Milwaukee, Wis. Aerator. 2,649,962, Aug. 25.

Runnells, David L., Jr., and P. F. Burch, assignors to Wolverine Shoe & Tanning Corporation, Rockford, Mich. Machine for skinning hogsides. 2,649,881, Aug. 25.

Russell, Alan W., Wethersfield, Conn., assignor to Emhart Manufacturing Company. Forehearth burner block. 2,649,903, Aug. 25.

Rust, Frederick F., Orinda, and W. E. Vaughan, Berkeley, assignors to Shell Development Company, Emeryville, Calif. Production of higher ketones. 2,650,253, Aug. 25.

Rust, John B., Verona, and W. B. Canfield, Montclair, N. J., assignors of one-half to Montclair Research Corporation, and one-half to Ellis-Foster Company. Compositions comprising copolymers of vinylimides and unsaturated alkyd resins and making same. 2,650,207, Aug. 25.

Ryan, Francis B., Charlton, Iowa. Cutting blade for ditching and cable laying machines. 2,649,747, Aug. 25.

Rydmark, Josef A.: *See*—
Pedersen, Haakon O., and Rydmark.

S & S Corrugated Paper Machinery Co., Inc., assignee: *See*—
Shields, Albert F.

Salm, Hans, Munich, Germany. Instrument for closing the urethra. 2,649,854, Aug. 25.

Sandberg, Oscar, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Article feed controller. 2,649,951, Aug. 25.

Sandin, Ray C., Oak Park, Ill., assignor to General Electric Company. Combined defrost pan and storage tray. 2,649,697, Aug. 25.

Saper-Sztein, Gerson, Grenoble, France. Safety valve device for gas burners and the like. 2,649,777, Aug. 25.

Sauder, Eric J., Archbold, Ohio. Knockdown table. 2,650,147, Aug. 25.

Saul, James J.: *See*—
Ripley, Harold C., and Saul.

Schaaf, Cecil F., Flint, Mich. Making lightweight coated aggregate granules. 2,650,171, Aug. 25.

Schaeffer, Ralph J., Ferdinand, Idaho. Work suit for farmers. 2,649,583, Aug. 25.

Scheibli, James R.: *See*—
Dannenberg, Hans, and Scheibli.

Schenley Industries, Inc., assignee: *See*—
Andersag, Hans, and Timmler.
Koenig, Karl, and Andersag.
Timmler, Helmut, Andersag, and Breitner.

Schlage, Ernest L., Burlingame, Calif., assignor to Schlage Lock Company. Door lock. 2,650,121, Aug. 25.

Schlage Lock Company, assignee: *See*—
Schlage, Ernest L.

Schlenk, Carl F., Cleveland Heights, E. W. Cheeseman, Lakewood, and R. L. Patrick, assignors to Perfection Stove Company, Cleveland, Ohio. Top burner assembly, including a flash tube lighter for cooking stoves or ranges. 2,649,850, Aug. 25.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. High-frequency loop antenna system. 2,650,303, Aug. 25.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. Television antenna. 2,650,304, Aug. 25.

Schmerl, Egon F., Piedmont, Calif. Cervical traction frame. 2,649,856, Aug. 25.

Schrage, Edward G., Rock Island, Ill., assignor to The Bettendorf Company, Bettendorf, Iowa. Article transfer mechanism for bread wrapping machines. 2,649,675, Aug. 25.

Schrenk, Hans A.: *See*—
Van Dijk, Pieter, and Schrenk.

Schutte, William H., San Gabriel, assignor to Noble Co., Oakland, Calif. Dam form. 2,649,643, Aug. 25.

Schweizerische Lokomotiv und Maschinenfabrik, assignee: *See*—
Borgeaud, Gaston, and Waldvogel.

Scinta, Anthony C., Buffalo, and A. Rappl, Eggertsville, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,649,605, Aug. 25.

Scott-Atwater Manufacturing Company, assignee: *See*—
Armstrong, Daniel A.

Scott, Le Roy H.: *See*—
Kalinske, Anton A., and Scott.

Sealed Power Corporation, assignee: *See*—
Olson, Holly M.

Searle, G. D., & Co., assignee: *See*—
Custic, John W.

Seeles, Hans: *See*—
Krönig, Walter, Seeles, and Burmeister.

Segesman, Louis E., Canton, assignor to The Hoover Company, North Canton, Ohio. Device for releasably securing brush strips in brush rolls. 2,649,603, Aug. 25.

Segesman, Louis E., Canton, assignor to The Hoover Company, North Canton, Ohio. Valved cleaning nozzle with plural mouths for suction cleaners. 2,649,610, Aug. 25.

Seibert, Ernest H.: *See*—
Krause, Richard S., and Seibert.

Seidman, Martin, Chicago, Ill., and K. P. Link, Middleton, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Haloalkoxy derivatives of the cyclic ketals of warfarin. 2,650,233, Aug. 25.

Selis-Simmons Hydrostatic Bailer Corporation, assignee: *See*—
Simmons, Archie L.

Sesini, Enrico, and M. Pierazzuoli, assignors to Pirelli Societa per Azioni, Milan, Italy. Stop joint for oil-filled cables. 2,650,260, Aug. 25.

Seybold, Frederick W., Westfield, N. J., assignor to E. P. Lawson Co., Inc., New York, N. Y. Drive mechanism for guillotine knife bars. 2,649,910, Aug. 25.

Seybold, Joseph F.: *See*—
Zarobsky, Charles A., and Seybold.

Sharp, Allen W., assignor to Harker Poultry Equipment Company, Ottumwa, Iowa. Sectional scalding tank for fowl. 2,649,615, Aug. 25.

Sharp, Vola, assignor to G. L. Steck, Dayton, Ohio. Nut and deformable holder. 2,649,883, Aug. 25.

Sharpe, Edward W., assignee: *See*—
Diamond, William E.

Sharples Chemicals Inc., assignee: *See*—
Olin, John F.

Sharples Corporation, The, assignee: *See*—
Collier, Donald W.

Shaw, Rinda, Chicago, Ill. Dough cutter. 2,649,657, Aug. 25.

Shearer, Douglas G.: *See*—
Brockway, William W., and Shearer.

Shell Development Company, assignee: *See*—
Dannenberg, Han, and Scheibli.
Krönig, Walter, Seeles, and Burmeister.
Medlin, William Y.
Rust, Frederick F., and Vaughan.

Shelton-Jones, Eric, London, England, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa. Surface finishing of aluminum and its alloys. 2,650,156, Aug. 25.

Sherman, Charles A., assignor to Weyerhaeuser Timber Company, Tacoma, Wash. Holddown shoe for lumber trimming and marking machines. 2,649,875, Aug. 25.

Shields, Albert F., Forest Hills, assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Blank feeding mechanism. 2,650,093, Aug. 25.

Shiltong, Ellen E., New York, assignor to Annelle Manufacturing Co., Inc., Brooklyn, N. Y. Child's garment. 2,649,589, Aug. 25.

Showstack, Paul J., Dorchester, Mass. Self-contained fire alarm and fire extinguisher. 2,649,752, Aug. 25.

Shwayder Bros., Inc., assignee: *See*—
Donald, James, Stimson, and Birza.

Sieminski, Francis R., Jersey City, N. J. Collapsible wall table. 2,650,145, Aug. 25.

Silver, John, Jersey City, N. J. Extension cord fuse plug for outlet connections. 2,650,279, Aug. 25.

Simmons, Archie L., Kilgore, assignor to Sells-Simmons Hydrostatic Bailer Corporation, Gladewater, Tex. Combination oil well hydrostatic cleanout bailer. 2,649,917, Aug. 25.

Simmons, John J., San Jose, assignor of one-half to H. S. Vath, Menlo Park, Calif. Folding stool. 2,649,894, Aug. 25.

Simpson, Herbert, Corporation, assignee: *See*—
McIlvaine, Robert L., and Yates.

Singer Manufacturing Company, The, assignee: *See*—
Turner, Edgar P.

Sirko, Paul J., New Britain, Conn. Sine bar fixture. 2,649,785, Aug. 25.

Sishc, Julius, Torrington, Wyo. Disk type potato vine cutter. 2,649,678, Aug. 25.

Sjolander, John L., assignor to Cleveland Wire Spring Company, Cleveland, Ohio. Spring dampener. 2,650,086, Aug. 25.

Skeats, Wilfred F., Lansdowne, Pa., assignor to General Electric Company. Electric capacitor. 2,650,334, Aug. 25.

Skog, Henry A.: *See*—
Ewald, Raymond L., and Skog.

Slater, John M., Inglewood, R. M. Benson, Buena Park, and D. L. Frechairn, Southgate, Calif., assignors to North American Aviation, Inc. Gyroscope. 2,649,808, Aug. 25.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Feed control for hydraulic motors. 2,649,688, Aug. 25.

Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Mine haulage vehicle. 2,649,980, Aug. 25.

Slyngstall, Jon Ø., Aalesund, Norway. Conveyer system for restaurants. 2,649,931, Aug. 25.

Smidth, F. S., & Co., assignee: *See*—
Ahlmann, Nikolai.

Smith, Cecil H.: *See*—
Weaver, Alexander E., and Smith.

Smith, Ethel M.: *See*—
Smith, Oscar H. and E. M.

Smith, Gaylord E., assignor to Muskegon Piston Ring Company, Muskegon, Mich. Cylinder bore taper gauge. 2,649,782, Aug. 25.

Smith, Harry F., Lexington, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Lever mechanism for ball cocks. 2,649,772, Aug. 25.

Smith, Henry S., Roselle, N. J. Belt charging apparatus. 2,649,978, Aug. 25.

Smith, Kline & French Laboratories, assignee: *See*—
Arnold, Richard T., and Ullyot.

Smith, Lowell L., Rockford, Ill. Pouring spout. 2,650,004, Aug. 25.

Smith, Oscar H. and E. M., Washington, D. C. Letter safe. 2,650,150, Aug. 25.

Smith, Paul J.: *See*—
Barth, Emer J., and Smith.

Smith, Richard H., Canton, assignor to The Hoover Company, North Canton, Ohio. Electric toaster. 2,649,729, Aug. 25.

Smith, S., & Sons (England), Limited, assignee: *See*—
Meredith, Frederick W., Sudworth, Meredith, and Righton.

Snow, Donald L., and C. S. Staub, Washington, D. C. Chemical fume hood. 2,649,727, Aug. 25.

Snyder, James E.: *See*—
Lilley, William F., Snyder, and Stalter.

Societe Française de Materiel Agricole et Industriel (Societe Anonyme), assignee: *See*—
Tronquit, Pierre E.

Socke, John E., Pelham Manor, assignor to American Can Campany, New York, N. Y. Apparatus for soldering side seams of cans. 2,649,749, Aug. 25.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Clewell, Dayton H.
Daigle, Earl C.
Stover, William A.

Sparkes, Harry P., Orange, N. J., assignor to Anchor Manufacturing Company, Boston, Mass. Circuit breaker. 2,650,276, Aug. 25.

Special Equipment Company, assignee: *See*—
Eweld, Raymond L., and Skog.

Spedding, Raymond T., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Positioning mechanism for lift type implements. 2,649,721, Aug. 25.

Spencer, Roland T., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Adjustable weight-biased relief valve. 2,649,774, Aug. 25.

Sperry Corporation, The, assignee: *See*—
Burgess, Edward G., Jr.

Sperti Faraday Inc., assignee: *See*—
Reck, Peter C., and Stern.

Spertus, Maurice, Highland Park, Ill. Picture-frame album. 2,649,799, Aug. 25.

Spooner, William W., Ilkley, England. Nozzle for the ejection of fluid streams. 2,650,131, Aug. 25.

Sprague, James M., Drexel Hill, Pa., assignor to Merck & Co., Inc. Bactericidal compounds. 2,650,251, Aug. 25.

Spriggs, William H., Des Moines, Iowa. Child's convertible chair. 2,649,893, Aug. 25.

Spyridakis, Emanuel G.: *See*—
Maclay, William R., and Spyridakis.

Stackhouse, Wells, Havertown, Pa., assignor to American Locker Company, Inc., Boston, Mass. Coin-controlled lock mechanism. 2,649,949, Aug. 25.

Stalker, Edward A., Bay City, Mich. Gas turbine adapted as a starter. 2,650,060, Aug. 25.

Stalter, Joseph F.: *See*—
Lilley, William F., Snyder, and Stalter.

Stamicarbon N. V., assignee: *See*—
Fontein, Freerk J.

Standard Coil Products Co, Inc., assignee: *See*—
Thias, Edwin P., Fischer, Gossard, and White.

Standard Dayton Corporation, assignee: *See*—
Noodleman, Samuel.

Standard Oil Development Company, assignee: *See*—
Arey, William F., Jr., and Wood.
Nelson, Joseph F., and Gleason.

Standard Register Company, The, assignee: *See*—
Davidson, John T., and Stimson.

Stanley Works, The, assignee: *See*—
Loomis, Austin C.

Staub, Cyril S.: *See*—
Snow, Donald L., and Staub.

Stead, Edward R.: *See*—
Fulton, Hugh W., Stead, and More.

Steck, George L., assignee: *See*—
Sharp, Vola.

Steichen, Ferdinand, Anderlecht (Brussels), and A. Debaisieux, Tournai, Belgium. Apparatus for the production of calcium superphosphate. 2,650,078, Aug. 25.

Stein, Gerhard M., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective device for transformers. 2,650,356, Aug. 25.

Stein, Jacob L., assignor to Publicker Industries Inc., Philadelphia, Pa. Production of acetic acid. 2,650,244, Aug. 25.

Steinmayer, Alwin G., Milwaukee, Wis., assignor to McGraw Electric Company. Bracket construction. 2,650,263, Aug. 25.

Steinschlaeger, Michael, London, England. Carbonization of peat with the utilization of excess heat to produce surplus power. 2,650,190, Aug. 25.

Stelzer, William, Summit, N. J. Master cylinder for hydraulic braking systems. 2,649,692, Aug. 25.

Sterling Drug Inc., assignee: *See*—
Rausch, Albert R.

Stern, Lewis, J.: *See*—
Reck, Peter C., and Stern.

Sternbergh, Solon A., Wyomissing Hills, and C. S. Knabb, Stony Creek Mills, assignors, by mesne assignments, to West Shore Manufacturing Co., Reading, Pa. Toolholder. 2,649,647, Aug. 25.

Stimson, Marvin W.: *See*—
Donald, James, Stimson, and Hirxa.

Stimson, Percy G.: *See*—
Davidson, John T., and Stimson.

Stock, Robert P., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Heat-resistant composition and making same. 2,650,206, Aug. 25.

Stoelting, Herman O., assignor to McGraw Electric Co., Milwaukee, Wis. Lightning arrester. 2,650,330, Aug. 25.

Stone, Lester B., assignee: *See*—
O'Gorman, William F.

Stoner, Eliot F.: *See*—
Carhart, Nathan A., and Stoner.

Stover, William A., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparation of chromic salts. 2,650,239, Aug. 25.

Strain, Franklin, Barberton, Ohio, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Polymer and preparing same. 2,650,215, Aug. 25.

Streed, David D. M., and J. M. Broadhurst, South Bend, Ind., assignors to United States Rubber Company, New York, N. Y. Adhesive composition, structure embodying same and making. 2,650,181, Aug. 25.

Streng, Jan, Ridgefield, Conn., assignor to Remington Rand Inc., New York, N. Y. Apronless table and leg fastening therefor. 2,650,148, Aug. 25.

Stribley, Rexford C.: *See*—
Tinkler, Frank H., Stribley, and Kennedy.

Stromberg-Carlson Company, assignee: *See*—
Mountjoy, Garrard.

Strong Electric Corporation, The, assignee: *See*—
Strong, Harry H.

Strong, Harry H., assignor to The Strong Electric Corporation, Toledo, Ohio. Lamp having a reflector, two lenses, and means to vary the distance between them. 2,650,292, Aug. 25.

Stubnitz-Greene Spring Corporation, assignee: *See*—
Stubnitz, Maurice.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Seat back spring. 2,649,895, Aug. 25.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Spring seat cushion. 2,649,896, Aug. 25.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Spring and air cushion seat. 2,649,897, Aug. 25.

Sturtz, William J., Los Angeles, Calif. Fuel mileage indicator. 2,649,709, Aug. 25.

Sudworth, James: *See*—
Meredith, Frederick W., Sudworth, Meredith, and Righton.

Sun Oil Company, assignee: *See*—
Reese, George E., and Larkin.

Sunnen, Joseph, Clayton, Mo. External honing device. 2,649,663, Aug. 25.

Sunnen, Joseph, Clayton, Mo. Honing machine. 2,649,664, Aug. 25.

Sussman, Philip A., assignee: *See*—
Miller, Joseph J.

Swanson, Oscar W., assignor to Barker Poultry Equipment Company, Ottumwa, Iowa. Poultry shackle. 2,649,616, Aug. 25.

Swearingen, Paul R., Kensington, assignor to G. H. Bowman, Jr., Salem, Ohio. Shoulderless garment with supporter. 2,649,587, Aug. 25.

Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Optical feed-back densitometer. 2,649,834, Aug. 25.

Sylvania Electric Products Inc., assignee: *See*—
Brooks, Joseph H.

Symington-Gould Corporation, The, assignee: *See*—
Vala, George F., and Couch.

Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Magnetic railway brake. 2,649,935, Aug. 25.

Talt, Howard C., assignor to The National Supply Company, Pittsburgh, Pa. Control for plunger lifts. 2,649,738, Aug. 25.

Tandberg, John G., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Evaporating-condensing heat transfer system. 2,649,696, Aug. 25.

Tarr, Donald T., Jr., Denver, Colo., and F. A. Fischer, Brussels, Belgium, assignors to The Dorr Company, Stamford, Conn. Treating arsenical gold ores. 2,650,159, Aug. 25.





Tawney, Chester W., S. J. Demarco, Jr., and P. H. Herrick, Baltimore, Md., assignors to Products Manufacturing Co., Inc. Vending machine. 2,649,948, Aug. 25.

Taylor, Charles S., Los Angeles, Calif. Liquid dispersion separating device. 2,649,964, Aug. 25.

Taylor, Edward H., Winnetka, assignor to Taylor Forge & Pipe Works, Cicero, Ill. Pipe coupling. 2,650,115, Aug. 25.

Taylor Forge & Pipe Works, assignee: *See*—
Taylor, Edward H.

Taylor, Milton C., West Palm Beach, Fla. Cable guide for cable layers. 2,649,746, Aug. 25.

Taylor, Nell B., assignor to Motorola, Inc., Chicago, Ill. Timing system. 2,650,333, Aug. 25.

Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Preparation of two-sided mosaic. 2,650,191, Aug. 25.

Tessier, Noel, and N. Blacker, Chicago, Ill. Hand truck. 2,649,981, Aug. 25.

Thias, Edwin P., Los Angeles, T. L. Fischer, South Gate, T. F. Gossard, North Hollywood, and W. W. White, Altadena, assignors to Standard Coil Products Co. Inc., Los Angeles, Calif. Television booster circuit. 2,650,298, Aug. 25.

Thomas, Edward B., and E. H. Alcock, Spondon, near Derby, England, assignors to British Celanese Limited. Synthesis of acetic acid from co and methanol. 2,650,245, Aug. 25.

Thomas, Edward B., and E. H. Alcock, Spondon, near Derby, England, assignors to British Celanese Limited. Production of acetic acid from methanol. 2,650,246, Aug. 25.

Thomley, John W., Jr., Decatur, Ill. Machine for the recovery of used foundry sand. 2,649,630, Aug. 25.

Thompson, John E., Chicago, Ill. Device for end point determination in fat rendering process. 2,650,343, Aug. 25.

Thompson, Joseph B., Toronto, Ontario, Canada, assignor to Wingfoot Corporation, Akron, Ohio. Wrapping in multi-ply material. 2,649,672, Aug. 25.

Thompson Products, Inc., assignee: *See*—
Booth, James H., and Ricks.
French, Oliver S.
Murray, John F., and Osborne.
Townhill, Arthur.

Thompson, Walter S., Portland, and H. Renn, Albany, assignors to M and M Wood Working Company, Portland, Oreg. High-frequency heating of glued joints. 2,649,876, Aug. 25.

Thompson, William D.: *See*—
Horsey, Eleanor F., and Thompson.

Thorne, Maurice A.: *See*—
Hutchinson, Roland V., and Thorne.

Tichopad, Jaroslav: *See*—
Munz, Jaroslav, and Tichopad.

Tide Water Associated Oil Company, assignee: *See*—
Anderson, Herbert M.
Hawes, Russell J., and Winding.

Timmler, Helmut: *See*—
Andersag, Hans, and Timmler.

Timmler, Helmut, H. Andersag, and S. Breitner, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Derivatives of 2:3-dihydro-4-methyl-furo (3:2-c) quinoline and preparation thereof. 2,650,227, Aug. 25.

Timmler, Helmut, H. Andersag, and S. Breitner, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Derivatives of 2:3-dihydro-4-methyl-thieno (3:2-c) quinoline and preparation thereof. 2,650,228, Aug. 25.

Timmler, Helmut, H. Andersag, and S. Breitner, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y. Derivatives of 2:3-dihydro-4-methyl-furo (3:2-c) quinoline and preparation thereof. 2,650,229, Aug. 25.

Tinkler, Frank H., R. C. Stribley, and J. G. Kennedy, Mason, Mich., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y. Milk product enhanced in amino acids and peptides. 2,650,166, Aug. 25.

Titeflex, Inc., assignee: *See*—
Morse, John W., Miles, and Bell.

Tobis, Robert A., Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Appliance for lapping flat annular surfaces or disks. 2,649,869, Aug. 25.

Tooley, Douglas A.: *See*—
Larson, John W., and Tooley.

Toop, Dorothy, assignee: *See*—
Toop, Frederick.

Toop, Frederick, assignor of twenty-five per cent to D. Toop, New York, twenty-five per cent to A. Freitas and twenty-five per cent to R. Freitas, Brooklyn, N. Y. Fountain applicator device having automatically controlled nozzles. 2,649,601, Aug. 25.

Totzek, Friedrich, Essen (Ruhr), Germany, assignor to Koppers Company, Inc., Pittsburgh, Pa. Production of iron sponge from iron ore. 2,650,160, Aug. 25.

Totzek, Friedrich, Essen (Ruhr), Germany, assignor to Koppers Company, Inc., Pittsburgh, Pa. Production of iron in a blast furnace. 2,650,161, Aug. 25.

Toulon, Pierre M. G., assignor to Products and Licensing Corporation, New York, N. Y. Rectifier tube and system. 2,650,318, Aug. 25.

Toulon, Pierre M. G., Paris, France, assignor to Products & Licensing Corporation, New York, N. Y. Converter and other electrical apparatus with rotary commutators. 2,650,305, Aug. 25.

Townhill, Arthur, assignor to Thompson Products Inc., Cleveland, Ohio. Forming a composite bearing. 2,649,651, Aug. 25.

Townsend, Mark A., Murray Hill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cold cathode electric discharge device. 2,650,320, Aug. 25.

Trendicator Systems Co., assignee: *See*—
Johnson, Claude W.

Tri-Clover Machine Co., assignee: *See*—
Kessler, Joseph S.

Trico Products Corporation, assignee: *See*—
Scinta, Anthony C., and Rappl.

Tripp, Lester A., assignor of one-half to J. Gordon, Elmhurst, Ill. Ice stacker. 2,649,974, Aug. 25.

Tronquit, Pierre E., Suresnes, assignor to Societe Française de Materiel Agricole et Industriel (Societe Anonyme) Vierzon, France. Hydraulic control for depth of an implement drawn by a tractor. 2,649,687, Aug. 25.

Troyer, Marc D, assignor to Berger Engineering Company, Seattle, Wash. Fairleader. 2,650,066, Aug. 25.

Tschudy, Donald B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,649,925, Aug. 25.

Tubbs, Clarence G., Pendleton, Oreg. Self-sharpening rotary plow. 2,649,723, Aug. 25.

Tubing Seal-Cap, Inc., assignee: *See*—
Meyers, Charles J.

Tuboscope Company, assignee: *See*—
Lloyd, Donald.

Tucker, Emmitt M., Medford, Oreg., assignor to Tucker & Sons, Grass Valley, Calif. Cable drive for airplanes. 2,649,920, Aug. 25.

Tucker & Sons, assignee: *See*—
Tucker, Emmitt M.

Turner, Edgar P., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Dust agitator supporting means for ambulatory vacuum cleaners. 2,649,609, Aug. 25.

Turner, John R.: *See*—
Reynolds, Warren S., and Turner.

Tyerman, David J., Burbank, Calif. Wheel toe-in change indicator. 2,649,788, Aug. 25.

Tyrner, Joseph M., Morristown, N. J. Washing machine with water motor having an exhaust connected to washer tub. 2,649,704, Aug. 25.

Tyson, Homer C., Bethany, Ohio. Ice cube pitcher gate. 2,649,967, Aug. 25.

Ullyot, Glenn E.: *See*—
Arnold, Richard T., and Ullyot.

Ulrich, Bernhard, Jr., and P., Corpus Christi, Tex. Circuit interrupter. 2,650,271, Aug. 25.

Ulrich, Philip: *See*—
Ulrich, Bernhard, Jr., and P.

Union Bag & Paper Corporation, assignee: *See*—
Read, Robert E.

Union Carbide and Carbon Corporation, assignee: *See*—
Burdick, John N., and Kinne.
Carosella, Michael C., and Mettler.
Miller, Walter A.

Union Oil Company of California, assignee: *See*—
Rand, William W.

Union Savings & Trust Company, The, executor: *See*—
Heltzel, John N.

Union Totalisator Company Limited, The, assignee: *See*—
Handley, John.

United Shoe Machinery Corporation, assignee: *See*—
Bradley, Robert W., and Hart.
Burke, George F. C.

United States Rubber Company, assignee: *See*—
Cowgill, William W.
Hinman, Dorr J.
Mankowich, Ivan.
Rhodes, Thomas J., and Neville.
Streed, David D. M., and Broadhurst.

Universal Manufacturing Corp., assignee: *See*—
Kirkpatrick, John A.

Universal Oil Products Company, assignee: *See*—
Mavity, Julian M.

Upjohn Company, The, assignee: *See*—
Weisblat, David I., and Fairburn.

Urbano, Faustino B., Jamaica, N. Y. Combination can opener and closure. 2,649,989, Aug. 25.

Vala, George F., Chevy Chase, Md., and G. F. Couch, Buffalo, assignors to The Symington-Gould Corporation, Depew, N. Y. Cushioning mechanism. 2,650,087, Aug. 25.

Van Bergen, Harmannus T., Greenwood, S. C. Electrically operated carillon. 2,649,820, Aug. 25.

Vance, John E., assignor to The Hoover Company, North Canton, Ohio. Lamp cooling device in suction cleaners. 2,649,607, Aug. 26.

Vanderlip, Edward G., Radnor, assignor to Piasecki Helicopter Corporation, Morton, Pa. Automatic control for helicopters. 2,650,046, Aug. 25.

Van Dijk, Pieter, Velp, and H. A. Schrenk, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C. Dispersing an immiscible pigment in viscose solution. 2,650,168, Aug. 25.

Van Wambeck, Stanley H.: *See*—
Lautner, Max E., and Van Wambeck.

Varak, Joseph, assignor to E. J. Brach & Sons, Chicago, Ill. Device for providing mold indentations and cleaning mold forming apparatus. 2,649,745, Aug. 25.

Varney, Frank M., Roanoke, Va. Heat supply control. 2,650,030, Aug. 25.

Vath, Hermann S., assignee: *See*—
Simmons, John J.

Vaughan, William E.: *See*—
Rust, Frederick F., and Vaughan.

Venus, Willibald A., Munich, assignor to Hahn & Kolb, Stuttgart-N, Germany. Hydraulically driven working machine for die-casting, injection molding, and the like. 2,649,693, Aug. 25.

Volgovskoy, Boris, Mount Lebanon Township, Allegheny County, Pa., assignor, by mesne assignments, to McGraw Electric Company. Electrical contact assembly. 2,650,284, Aug. 25.

Von Hoorn, Fred G., Bridgeport, Conn., assignor to General Electric Company. Resilient end washer renewable fuse. 2,650,283, Aug. 25.

Vychodoceske Chemicke Zavody, narodni podnik, assignee: *See*—
Daněk, Otto, and Nosek.

Wahl, Arnold S., Chicago, Ill. Milk-papaya powders, beverages made therefrom, and producing the same. 2,650,165, Aug. 25.

Wakley, Emery F., assignee: *See*—
Wakley, John W.

Wakley, John W., assignor of one-half to E. F. Wakley, Modesto, Calif. Journal assembly. 2,650,142, Aug. 25.

Waldorf Paper Products Company, assignee: *See*—
Bergstrom, Carl N.

Waldvogel, Jakob: *See*—
Borgeaud, Gaston, and Waldvogel.

Walker, Stanley F., Montgomery, Ala. Insulating device for pipes, faucets, and the like. 2,650,180, Aug. 25.

Wall, Lloyd W., Oaklawn, assignor to Caspers Tin Plate Company, Chicago, Ill. Magnetic separator for sheet feeding apparatus. 2,650,092, Aug. 25.

Wallau, Alex. Lee, Incorporated, assignee: *See*—
Kantor, Russell P.

Walliser, Gustav: *See*—
Reich, Kurt, and Walliser.

Walsh, Thaddeus A.: *See*—
MacLagan, James A., and Walsh.

Walters, Warren R., assignor to The Maico Company, Incorporated, Minneapolis, Minn. Hearing aid construction. 2,650,267, Aug. 25.

Walton, Fermon T., assignee: *See*—
McCandless, Field F.

Walz, Claude W., Rock Island, and H. F. Clausen, assignors to Deere & Company, Moline, Ill. Planter. 2,650,000, Aug. 25.

Wander, John F., assignor to Aktiebolaget L. Gabrielsson & Co., Stockholm, Sweden. Device for opening packages, primarily cigarette packages. 2,649,653, Aug. 25.

Ward Blenkinsop & Company Limited, assignee: *See*—
Goldberg, Alan A., and Besly.

Waugh Equipment Company, assignee: *See*—
Clark, Leverett M., and Fillion.

Weaver, Alexander E., and C. H. Smith, assignors to American-La France-Foamite Corporation, Elmira, N. Y. Fire extinguisher discharge head. 2,649,919, Aug. 25.

Webb, Edward L., Baltimore, and R. C. Fox, Pasadena, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Scintillation counter and composite phosphor therefor. 2,650,309, Aug. 25.

Webb, Harry, New York, N. Y. Sanitary pad attachment for telephones. 2,650,269, Aug. 25.

Weijlard, John: *See*—
Pfister, Karl, III, and Weijlard.

Weil, Burt, Cincinnati, Ohio. Display stand. 2,649,972, Aug. 25.

Weimer, Paul K., Princeton, N. J., assignor to Radio Corporation of America. Color television reproducing system. 2,650,264, Aug. 25.

Weisblat, David I., and E. I. Fairburn, assignors to The Upjohn Company, Kalamazoo, Mich. Folic acid intermediate preparation. 2,650,241, Aug. 25.

Welch, Nicholas A., West Hartford, assignor to The American Hardware Corporation, New Britain, Conn. Latch mechanism. 2,650,122, Aug. 25.

Welden, William A., Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Relief valve and pressure indicating means for pressure cookers. 2,649,775, Aug. 25.

Welte, Benedict, Lake Orion, assignor to Colonial Broach Company, Warren Township, Macomb County, Mich. Broach sharpening machine. 2,649,662, Aug. 25.

West Shore Manufacturing Co., assignee: *See*—
Sternbergh, Solon A., and Knabb.

Western Electric Company, Incorporated, assignee: *See*—
Penn, Julius H., and Powell.
Powell, Paul R.

Westinghouse Air Brake Company, assignee: *See*—
Gorman, Andrew T.

Westinghouse Electric Corporation, assignee: *See*—
Corteggiano, William L., and Redmond.
Garbuny, Max.
Hagopian, Richard H.
James, Homer B.
Johns, Francis J., and Joki.
Kion, Theodore P.
Mangan, Paul C., and Neal.
Middleton, Marshall, Jr.
Neal, Robert A., and Mangan.
Newhouse, Paul D
Pedersen, Haakon O., and Rydmark.
Stein, Gerhard M.
Webb, Edward L., and Fox.

Weston Electrical Instrument Corporation, assignee: *See*—
Gilbert, Roswell W.
Lamb, Francis X.

Westover, Miles R., Alton, Ill. Attachment nut. 2,649,884, Aug. 25.

Weyerhaeuser Timber Company, assignee: *See*—
Sherman, Charles A.

Wheland Company, The, assignee: *See*—
Campbell, George E.

White, Frank S., Stockbridge, Mass., assignor to The Dorr Company, Stamford, Conn. Calcining lime bearing sludges. 2,650,084, Aug. 25.

White, Warren W.: *See*—
Thias, Edwin P., Fischer, Gossard, and White.

White, William C., Schenectady, N. Y., assignor to General Electric Company. X-ray image intensification and method. 2,650,310, Aug. 25.

Wickardt, Kurt W., assignor to Hosemaster Machine Company Limited, Liverpool, England. Straight bar knitting machine. 2,649,703, Aug. 25.

Wickersham, Price D.: *See*—
Goland, Martin, and Wickersham.

Wiedemann, Eugen, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas-filled electrical generator. 2,650,313, Aug. 24.

Wiemer, Hermann K., Wallington, England. Hollow water cooled roller for roller mills. 2,650,034, Aug. 25.

Wiese, Jesse C., San Pedro, Calif. Stereoscopic viewer. 2,649,837, Aug. 25.

Wiggins-Hunt Engineering Corporation, assignee: *See*—
Hunt, William E.

Wiley, Francis R., Decatur, Ill. Broom. 2,649,602, Aug. 25.

Williams, Charles E., Stanmore, England, assignor to General Electric Company. Dimming circuit and apparatus for fluorescent lamps. 2,650,326, Aug. 25.

Williams, Frank R., assignee: *See*—
Williams, Harold E.

Williams, Harold E., assignor to F. B. and H. E. Williams, Carthage, Mo. Padding support. 2,649,899, Aug. 25.

Williams-Wallace Company, assignee: *See*—
Kinkead, Alan.

Windemuth, Erwin, Leverkusen-Bayerwerk, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany. Adhesive composition comprising a diisocyanate modified polyester. 2,650,212, Aug. 25.

Winding, Charles C.: *See*—
Hawes, Russell J., and Winding.

Wingfoot Corporation, assignee: *See*—
Appleby, Paul E.
Carson, Clarence M.
Lilley, William F., Snyder, and Stalter.
Thompson, Joseph B.

Wisconsin Alumni Research Foundation, assignee: *See*—
Seldman, Martin, and Link.

Wobbe, Delbert E.: *See*—
Martin, William McK., Pilnik, and Wobbe.

Wolter, Frederick J.: *See*—
Iller, Ralph K., and Wolter.

Wolverine Shoe & Tanning Corporation, assignee: *See*—
Runnells, David L., Jr., and Burch.

Woock, Walter R. J., assignor to Plastaket Manufacturing Company, Lodi, Calif. Shipping basket and cover therefor. 2,649,991, Aug. 25.

Wood, Davis M., assignor to Foote Bros. Gear and Machine Corporation, Chicago, Ill. Lubricating means. 2,649,929, Aug. 25.

Wood, Fred O., St. Louis, Mo. Bulldozer. 2,649,704, Aug. 25.

Wood, Robert E.: *See*
Arey, William F., Jr., and Wood.

Wood, Russell A., South Milwaukee, assignor to McGraw Electric Company, Milwaukee, Wis. Electrical discharge device. 2,650,323, Aug. 25.

Woppman, Joseph G., assignor to The Davison Chemical Corporation, Baltimore, Md. Humidifier package with stitched-in suspension means and making same. 2,649,923, Aug. 25.

Woychik, Raymond O., Middleton, Wis. Airplane landing gear. 2,650,048, Aug. 25.

Wurton Machine Company, assignee: *See*—
Palmer, Arthur E.

Wylie, Howard W., Seattle, Wash. Conveyer chain. 2,649,812, Aug. 25.

Wyman, William F., Spokane, Wash. Air circulating system for buildings. 2,649,726, Aug. 25.

Yates, James L.: *See*—
McIlvaine, Robert L., and Yates.





York Corporation, assignee: *See*—
Andrews, John M.
Raver, Francis M.

Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Consolidated rig. 2,650,065, Aug. 25.

Young, Lawrence R., Seattle, Wash. Resilient clip or clamp. 2,649,641, Aug. 25.

Youngberg, Charles H.: *See*—
Ochler, William P., and Youngberg.

Zalkind, Philip, New York, N. Y. Index tab device. 2,649,796, Aug. 25.

Zarobsky, Charles A., and J. F. Seybold, assignors to The Radiart Corporation, Cleveland, Ohio. Support for rotatable antenna structures. 2,650,051, Aug. 25.

Zaugg, Harold E., H. Glenn, and M. Freifelder, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. 2,5-diketopiperazines. 2,650,223, Aug. 25.

Zeller, Karl, and K. Lenz, assignors to Anton Steinecker Maschinenfabrik A. G., Freising, Germany. Mixing kettle for cheese curd. 2,650,079, Aug. 25.

Zelenay, Ludwig, Culver City, Calif. Fabric covered button. 2,649,634, Aug. 25.

Zimmer, Josef W., Glendale, Mo. Driving skill test game apparatus. 2,650,094, Aug. 25.

Zinn, Clarence A., and H. G. Perkins, assignors to Hammond Machinery Builders, Inc., Kalamazoo, Mich. Rotary turret for multiple spindle polishing and buffing machines. 2,649,668, Aug. 25.

# LIST OF PLANT INVENTIONS

Azalea plant. W. B. Mulholland and P. E. Shepp. 1,212, Aug. 25.
Lantana plant. C. A. Longmire. 1,211, Aug. 25.

# LIST OF DESIGN INVENTIONS

Airplane. J. F. Liebhaber. 170,268, Aug. 25.
Bottle. R. H. Dallas. 170,255, Aug. 25.
Bottle. J. B. Rosefield. 170,287, Aug. 25.
Brooch or the like. A. Katz. 170,261, Aug. 25.
Brooch or the like. A. Katz. 170,264, Aug. 25.
Brooch or the like. A. Philippe. 170,271–2, Aug. 25.
Brooch or the like. A. Philippe. 170,276–84, Aug. 25.
Cabinet, Television console. G. Trautvetter. 170,292, Aug. 25.
Canister or similar article. M. S. Ziskin and R. B. Billig. 170,295, Aug. 25.
Cards for playing a baseball game, Set of. R. F. Nekuda. 170,269, Aug. 25.
Cup and guard ring, Combined drinking. K. V. Skipp. 170,289, Aug. 25.
Cuspidor and shield, Combined dental. W. B. Rice. 170,285, Aug. 25.
Earring or the like. A. Katz. 170,262–3, Aug. 25.
Earring or the like. A. Katz. 170,265–7, Aug. 25.
Earring or the like. A. Philippe. 170,270, Aug. 25.
Earring or the like. A. Philippe. 170,273–5, Aug. 25.
Finger pad or similar article. C. E. Jones. 170,260, Aug. 25.
Frame for a combination rubber and plastic mill. L. K. Bates. 170,253, Aug. 25.
Hobbyhorse. R. Wenkstern. 170,294, Aug. 25.
Holder, Cigarette. J. Francken. 170,257, Aug. 25.
Jumper, Baby. B. F. Hamilton. 170,259, Aug. 25.
Knife or similar article. D. A. Wallance. 170,293, Aug. 25.
Merchandise envelope. M. Bookler. 170,254, Aug. 25.
Molding strip. H. L. Roessler. 170,286, Aug. 25.
Pie. H. L. Griffin. 170,258, Aug. 25.
Sole plate for an electric iron. H. J. Taige. 170,291, Aug. 25.
Stocking. I. Stillman. 170,290, Aug. 25.
Suction cleaner. H. Dreyfuss. 170,256, Aug. 25.
Toy airplane. J. E. Rylands. 170,288, Aug. 25.



# LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 25TH DAY OF AUGUST, 1953

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading device. F. Cooke. 2,649,667, Aug. 25.
Absorption-refrigerating apparatus. G. T. Piper. 2,649,700, Aug. 25.
Acetic acid from methanol, Production of. E. B. Thomas and E. H. Alcock. 2,650,246, Aug. 25.
Acetic acid, Production of. J. L. Stein. 2,650,244, Aug. 25.
Acrylonitrile copolymers. G. E. Ham. 2,650,151, Aug. 25.
Adhesive composition comprising a diisocyanate modified polyester. E. Windemuth. 2,650,212, Aug. 25.
Adhesive composition, structure embodying same, and making. D. D. M. Streed and J. M. Broadhurst. 2,650,181, Aug. 25.
Adjustable coat hanger. G. D. McVicker. 2,650,007, Aug. 25.
Adjustable sawhorse bracket. J. Boltos. 2,650,140, Aug. 25.
Adjustable weight-biased relief valve. R. T. Spencer. 2,649,774, Aug. 25.
Adjusting mechanism for the digging boom and scraper boom of endless type ditching machines. G. E. Miller. 2,649,702, Aug. 25.
Advancing reel. P. M. Cole. 2,649,645, Aug. 25.
Aerator. R. Huemelin. 2,649,962, Aug. 25.
Aerial, Extensible. E. P. Geyer. 2,650,302, Aug. 25.
Air circulating system for buildings. W. F. Wyman. 2,649,726, Aug. 25.
Air conditioning unit, including subcooling. J. R. Del Signore. 2,649,701, Aug. 25.
Aircraft. W. E. Hunt. 2,650,045, Aug. 25.
Aircraft control system, Automatic. F. W. Meredith, J. Sudworth, D. L. Meredith, and D. W. Righton. 2,650,338, Aug. 25.
Air-moving device. C. M. Buttner. 2,649,728, Aug. 25.
Airplane construction, Transport. H. D. Fowler. 2,650,049, Aug. 25.
Airplane landing gear. R. O. Woychik. 2,650,048, Aug. 25.
Alarm, Auto burglar. J. M. Joiner, Jr. 2,650,354, Aug. 25.
Alarm, Burglar. W. H. Obrock. 2,649,751, Aug. 25.
Album, Picture-frame. M. Spertus. 2,649,799, Aug. 25.
Alkaline-setting resin-starch reaction product and preparation thereof. C. C. Kesler and E. T. Hjermstad. 2,650,205, Aug. 25.
Alternating current drop-out means for thermoelectric safety shutoff devices. R. B. Matthews. 2,649,767, Aug. 25.
Aminovalerolactones and their production. R. T. Arnold and G. E. Ullyot. 2,650,231, Aug. 25.
Ammonium uranium fluoride, Production of. A. S. Ellis and R. B. Mooney. 2,650,153, Aug. 25.
Ammunition assembling machine. W. S. Reynolds and J. R. Turner. 2,649,832, Aug. 25.
Amplifier, Radio frequency. W. A. Claps. 2,650,296, Aug. 25.
Angle measuring tool. C. H. Anderson, Sr. 2,649,780, Aug. 25.
Angular modulating system. P. D. Heath. 2,650,250, Aug. 25.
Antenna system, High-frequency loop. K. Schlesinger. 2,650,303, Aug. 25.
Antenna, Television. K. Schlesinger. 2,650,304, Aug. 25.
Apparatus and method for testing pipe coating. J. P. Itasor. 2,650,346, Aug. 25.
Apparatus and process for vulcanizing strip stock. G. D. Marcy. 2,649,617, Aug. 25.
Apparatus for advancing filamentary articles. P. R. Powell. 2,649,867, Aug. 25.
Apparatus for aligning and sorting sheets of paper, etc., and parts therefor. C. W. Johnson. 2,650,109, Aug. 25.
Apparatus for bending tubular lamps. J. F. Ochwat. 2,649,660, Aug. 25.
Apparatus for collecting dust. R. L. McIlvaine and J. L. Yates. 2,649,924, Aug. 25.
Apparatus for continuously separating solids in or from liquid suspensions thereof. F. J. Foutein. 2,649,963, Aug. 25.
Apparatus for controlling the supply of liquid fuel to the combustion chambers of prime movers. O. N. Lawrence, T. A. Harris, and W. Fleming. 2,649,686, Aug. 25.
Apparatus for defrosting low-temperature cooling coils. E. Kohlstedt. 2,649,695, Aug. 25.
Apparatus for delivering liquids to receptacles. J. G. Nilsson. 2,650,013, Aug. 25.
Apparatus for determining fluid flow in wells. C. R. Dale. 2,649,711, Aug. 25.
Apparatus for feeding fibrous material. P. S. Farley. 2,650,002, Aug. 25.
Apparatus for finishing wood. L. H. Jones. 2,649,755, Aug. 25.
Apparatus for fishing through ice. E. C. Freeman. 2,649,801, Aug. 25.
Apparatus for forming rims. H. A. Palmer. 2,649,886, Aug. 25.
Apparatus for generating gears. G. E. Millhuff. 2,649,716, Aug. 25.
Apparatus for handling cartons. C. E. Kerr and R. Elsheimer. 2,649,676, Aug. 25.
Apparatus for locating cable faults. J. P. Lozes, Jr. 2,650,345, Aug. 25.
Apparatus for logging wells while drilling. P. W. Martin. 2,650,007, Aug. 25.
Apparatus for maintaining a constant tension in a moving filament. H. Grein. 2,650,043, Aug. 25.
Apparatus for making composite ice-cream confections. E. L. Elwell. 2,649,744, Aug. 25.
Apparatus for making hats. E. J. Gurry. 2,650,005, Aug. 25.
Apparatus for making wood patches. E. V. Bennett and H. Renn. 2,649,869, Aug. 25.
Apparatus for manufacturing dipped rubber articles. E. S. Killian. 2,649,619, Aug. 25.
Apparatus for packing containers. C. E. Kerr. 2,650,009, Aug. 25.
Apparatus for plating metal objects. O. F. Davis and H. G. Heiltz. 2,649,754, Aug. 25.
Apparatus for positioning fish. P. Danielsson. 2,649,613, Aug. 25.
Apparatus for processing cordage. J. H. Penn and P. R. Powell. 2,649,822, Aug. 25.
Apparatus for producing tapered metal disks. J. H. Hunt. 2,649,820, Aug. 25.
Apparatus for releasing frozen confections from molds. K. Eftihios. 2,649,764, Aug. 25.
Apparatus for separating moisture from a vapor. E. Durham. 2,649,928, Aug. 25.
Apparatus for soldering side seams of cans. J. E. Socke. 2,649,749, Aug. 25.
Apparatus for stringing tobacco leaves. A. E. Palmer. 2,649,977, Aug. 25.
Apparatus for stripping and regenerating spent adsorptive powders. W. V. Medlin. 2,650,155, Aug. 25.
Apparatus for testing and sorting thin rubber articles. J. R. Gammeter. 2,649,960, Aug. 25.
Apparatus for the production of calcium superphosphate. F. Steichen. 2,650,078, Aug. 25.
Apparatus for the purification of calcium. R. L. Burnett. 2,650,085, Aug. 25.
Apparatus for treating wells. J. A. Miller. 2,649,915, Aug. 25.
Apparatus for trimming wrapped objects. W. F. Lilley, J. E. Snyder, and J. F. Stalter. 2,649,909, Aug. 25.
Apparatus for use in unwinding yarn. P. W. Markwood. 2,650,042, Aug. 25.
Appliance for lapping flat annular surfaces or disks. R. A. Tobis. 2,649,669, Aug. 25.
Appliance on typewriting, calculating, or bookkeeping machines for positioning and adjusting a top sheet in front of one or more basic sheets. K. Endrich. 2,649,950, Aug. 25.
Aromatic mercury halides, Preparation of. O. Daněk and J. Nosek. 2,650,238, Aug. 25.
Arrangement for converting direct voltages into alternating voltages. K. Posthumus. 2,650,340, Aug. 25.
Article feed controller. O. Saudberg. 2,649,951, Aug. 25.
Article transfer mechanism for bread wrapping machines. E. G. Schrage. 2,649,675, Aug. 25.
Ascertaining true size of photofluorographically recorded objects irrespective of enlargement or reduction, Method of and apparatus for. K. G. Catlin. 2,650,308, Aug. 25.
Attaching mats. A. L. Gustin, Jr. 2,649,627, Aug. 25.
Attachment for silo filling machines. J. F. Raleigh. 2,650,136, Aug. 25.
Attachment for weaving high density fabrics. M. Mayer, Jr., and G. J. Kyame. 2,649,864, Aug. 25.
Attachment nut. M. R. Westover. 2,649,884, Aug. 25.
Automatic control for helicopters. E. G. Vanderlip. 2,650,046, Aug. 25.
Automatic control of the movement of picture-making equipment. J. T. Llerley. 2,649,835, Aug. 25.
Automatic electronic error correction circuit. R. W. Bordewieck. 2,650,332, Aug. 25.
Bactericidal compounds. J. M. Sprague. 2,650,251, Aug. 25.

Bag: *See*—
Parcel bag.
Bale or bundle handling means for baling presses or the like. M. E. McClellan. 2,649,045, Aug. 25.
Bale sled. R. W. Ray. 2,649,982, Aug. 25.
Balloon, Jet-propelled spinning. J. Kennedy. 2,640,804, Aug. 25.
Balneotherapy apparatus. R. T. Melsheimer. 2,649,861, Aug. 25.
Bar: *See*
Extensible towel bar.
Barbecue and bun warmer, Hot dog. F. F. McCandless. 2,649,852, Aug. 25.
Barometric draft regulator. E. A. Field. 2,650,029, Aug. 25.
Base seal structure for burial vaults. E. J. Lager. 2,649,644, Aug. 25.
Basket and cover therefor, Shipping. W. R. J. Woock. 2,649,991, Aug. 25.
Bass clarinet. H. W. Loney. 2,649,829, Aug. 25.
Battery and producing same, Lead-acid electric storage. E. L. Jolley. 2,650,257, Aug. 25.
Battery charging apparatus. S. L. Christie and F. C. Marshall. 2,650,339, Aug. 25.
Bed guard. J. D. B. and H. Herz. 2,649,594, Aug. 25.
Belt charging apparatus. H. S. Smith. 2,649,978, Aug. 25.
Belt feed for aircraft guns. D. W. Davidson, Jr. 2,649,840, Aug. 25.
Bit: *See*—
Multiple expansion rotary drill bit.
Blank feeding mechanism. A. F. Shields. 2,650,093, Aug. 23.
Block: *See*—
Cutting block. Reciprocating block.
Forehearth burner block.
Board: *See*—
Visual control board.
Bobbin drive for winding machines. W. W. Egee. 2,650,035, Aug. 25.
Boiler with fusible metal actuated control. A. Cohen and P. S. Foster. 2,649,845, Aug. 25.
Bonding faying surfaces of metallic members. J. W. Larson and D. A. Tooley. 2,650,185, Aug. 25.
Bonding machine, Dielectric. R. W. Bradley and G. T. Hart. 2,650,288, Aug. 25.
Bracket: *See*—
Adjustable saw-horse bracket. Jack bracket.
Bracket construction. A. G. Steinmayer. 2,650,263, Aug. 23.
Brake. *See* Magnetic railway brake.
Brake cylinder release valve. W. F. Klein. 2,650,138-9, Aug. 25.
Brassière. I. Josephson. 2,649,586, Aug. 25.
Breech mechanism for firearms. J. B. Peters. 2,649,800, Aug. 23.
Brightening aluminum. W. C. Cochran. 2,650,157, Aug. 25.
Broom. F. R. Wiley. 2,649,602, Aug. 25.
Brush having duo sections, Duplex. H. A. Petsch. 2,649,598, Aug. 25.
Brush, Motor-driven rotary currying. E. J. Dullinger. 2,649,597, Aug. 25.
Buckle, Ornamental belt. J. B. Freysinger. 2,649,636, Aug. 25.
Building element. W. Henrichsen. 2,649,626, Aug. 25.
Building, Tornado proof. E. A. Johnson. 2,649,625, Aug. 25.
Bulldozer. F. O. Wood. 2,649,794, Aug. 25.
Bun warmer. G. M. Larkin. 2,649,853, Aug. 25.
Burner assembly, including a flash tube lighter for cooking stoves or ranges, Top. C. F. Schlenk, E. W. Cheeseman, and R. L. Patrick. 2,649,850, Aug. 25.
Burner for vulcanizing apparatus. W. F. Peters and J. Riesinger. 2,649,851, Aug. 25.
Butadiene-styrene sized paper and method. E. F. Horsey and W. D. Thompson. 2,650,163, Aug. 25.
Button, Fabric covered. L. Zelenay. 2,649,634, Aug. 25.
Button, Machine attached. F. G. Purinton. 2,649,633, Aug. 25.
Cable drive for airplanes. E. M. Tucker. 2,649,920, Aug. 25.
Cable guide for cable layers. M. C. Taylor. 2,649,746, Aug. 25.
Cable retrieving apparatus. E. F. Axelsen. 2,650,129, Aug. 25.
Cable with paper and polystyrene insulation, Gas-filled electric. E. L. Davey. 2,650,261, Aug. 25.
Calcining lime bearing sludges. F. S. White. 2,650,084, Aug. 25.
Caliper having linear electrical response, Wall bore. R. W. Goble. 2,649,786, Aug. 25.
Can opener and closure, Combination. F. B. Urbano. 2,649,989, Aug. 25.
Can opener and tear strip extractor, Key type. L. J. Lyle. 2,649,990, Aug. 25.
Cap: *See*—
Radiator pressure cap.
Carbon monoxide eliminator. H. Cohen. 2,649,685, Aug. 25.
Carbonization of peat with the utilization of excess heat to produce surplus power. M. Steinschlaeger. 2,650,190, Aug. 25.
Card conveyer, Advertising. C. Bustamante. 2,649,798, Aug. 25.
Carillon, Electrically operated. H. T. van Bergen. 2,649,826, Aug. 25.
Carriage, Luggage. K. R. Costikyan. 2,650,105, Aug. 25.
Carrier: *See*
Curtain rod bracket carrier.
Carrier for containers. R. J. Fallor. 2,650,128, Aug. 25.
Carrier wave receiver, Dual purpose. G. Mountjoy. 2,650,265, Aug. 25.
Carrying frames in accounting machines. A. G. Helgeson. 2,649,733, Aug. 25.
Carton. W. P. Frankenstein. 2,650,015, Aug. 25.
Casting expanded plastics. W. A. Miller. 2,649,620, Aug. 25.
Catalysts, Preparation of. P. W. Reynolds and A. A. L. Challis. 2,650,204, Aug. 25.
Catalytic cracking of dewaxed petroleum hydrocarbons. J. N. Haresnape and E. C. Homsam. 2,650,189, Aug. 25.
Caulking compound tube. D. J. Burch. 2,649,999, Aug. 25.
Center finder. R. N. Baugh. 2,649,783, Aug. 25.
Centrifuge for cleaning liquids. H. W. Fulton, E. B. Stead, and D. More. 2,650,022, Aug. 25.
Cervical traction frame. E. F. Schmerl. 2,649,856, Aug. 25.
Chain: *See*—
Conveyer chain.
Chair: *See*—
Child's convertible chair.
Chair structure. D. R. Johnson. 2,649,901, Aug. 25.
Checking device for self-service stores. M. O. Bessonette. 2,649,932, Aug. 25.
Child's convertible chair. W. H. Spriggs. 2,649,893, Aug. 25.
Chromic salts, Preparation of. W. A. Stover. 2,650,239, Aug. 25.
Chute, Case loading. C. E. Kerr and R. K. Galloway. 2,649,946, Aug. 25.
Cigarette case timing indicator. R. H. Doye, Jr. 2,649,753, Aug. 25.
Circuit: *See*—
Automatic electronic error correction circuit.
Magnetic amplifier circuit.
Television booster circuit.
Circuit and apparatus for fluorescent lamps, Dimming. C. E. Williams. 2,650,326, Aug. 25.
Circuit-arrangement for tone-control in low-frequency amplifiers. H. A. Broos. 2,650,268, Aug. 25.
Circuit breaker. H. P. Sparkes. 2,650,276, Aug. 25.
Circuit breaker and tripping device therefor, Multipole. T. M. Cole and W. H. Lantz, Jr. 2,650,280, Aug. 25.
Circuit breaker, Automatic. A. R. Norden. 2,650,281, Aug. 25.
Circuit control device. H. B. James. 2,650,328, Aug. 25.
Circuit for low torque variable-speed motors, Starting. F. M. Raver. 2,650,337, Aug. 25.
Circuit interrupter. E. C. Gronowski. 2,650,282, Aug. 25.
Circuit interrupter. B. Ulrich, Jr., and P. Ulrich. 2,560,271, Aug. 25.
Clamp: *See*—
Pipe clamp.
Pivoted lever type line clamp.
Cleaner: *See*—
Suction cleaner. Windshield cleaner.
Clip or clamp, Resilient. L. R. Young. 2,649,641, Aug. 25.
Coal drill. J. S. Robbins. 2,650,083, Aug. 25.
Coaster for furniture legs. C. W. Muszynski. 2,649,611, Aug. 25.
Coated cloth and other resin and fiber compositions. L. P. Biefeld. 2,650,184, Aug. 25.
Coating device for coating elongated objects. W. E. Diamond. 2,649,757, Aug. 25.
Coating machine with circulating system. W. W. Cowgill. 2,649,758, Aug. 25.
Coating material, coated fabric, and producing it. W. T. Kimball. 2,650,170, Aug. 25.
Coated rubber hydrochloride product. C. M. Carson. 2,650,174, Aug. 25.
Collapsible wall table. F. R. Sleminski. 2,650,145, Aug. 25.
Color stabilization of fuel oils. E. C. Daigle. 2,650,187, Aug. 25.
Color television reproducing system. P. K. Weimer. 2,650,264, Aug. 25.
Combine chaffer. E. G. Gustafson. 2,649,760, Aug. 25.
Compositions comprising copolymers of vinylimides and unsaturated alkyd resins and making same. J. B. Rust and W. B. Canfield. 2,650,207, Aug. 25.
Compressor. W. W. Paget. 2,650,018, Aug. 25.
Concentrated silica sol, Making. R. K. Iler and F. J. Wolter. 2,650,200, Aug. 25.
Concentration of aqueous aconitic acid solutions. D. W. Collier. 2,650,248, Aug. 25.
Condenser for refrigerating system, Atmospheric. J. M. Andrews. 2,650,075, Aug. 25.
Connector: *See*—
Electric terminal connector.
Electrical conduit connector.
Consolidated rig. F. J. Young. 2,650,065, Aug. 25.





Constant pressure variable displacement pump. G. H. Hufford and R. E. O'Connor. 2,649,739, Aug. 25.
Contact pin igniter. R. A. Phillips. 2,649,736, Aug. 25.
Container: *See*—
Plant shipping container.
Container and display rack, Combined. J. M. Gapstur. 2,649,957, Aug. 25.
Container and holder for soap containing boxes and the like, Dispensing. G. V. Pelton. 2,649,998, Aug. 25.
Container with displaceable bottom, Dispensing. N. Muskin. 2,649,995, Aug. 25.
Control. G. J. Muemer. 2,650,270, Aug. 25.
Control apparatus. J. D. Orndoff. 2,650,329, Aug. 25.
Control for plunger lifts. H. C. Talt. 2,649,738, Aug. 25.
Control means for internal-combustion engines. R. Miller. 2,649,847, Aug. 25.
Converter and other electrical apparatus with rotary commutators. P. M. G. Toulon. 2,650,305, Aug. 25.
Conveyer belt control. R. M. Buckeridge and W. E. Goodman. 2,649,955, Aug. 25.
Conveyer chain. H. W. Wylie. 2,649,812, Aug. 25.
Conveyer, Switching type. K. H. Hansen. 2,649,953, Aug. 25.
Conveyer system for induction heating. P. D. Newhouse. 2,650,290, Aug. 25.
Conveyer system for restaurants. J. Ø. Slyngstall. 2,649,931, Aug. 25.
Cooling tower having splash deck supported basin. L. T. Mart. 2,650,082, Aug. 25.
Core retainer for dynamoelectric machines. W. R. Maclay and E. G. Spyridakis. 2,650,317, Aug. 25.
Coring method and apparatus. W. W. Rand. 2,650,068, Aug. 25.
Coupling: *See*—
Electromagnetic slip coupling.
Pipe coupling.
Rotary hydraulic coupling.
Variable speed rotary fluid coupling.
Coupling for lift type draft devices. W. P. Oehler. 2,650,103, Aug. 25.
Coupling with servo-action, Electromagnetically actuated friction. A. Doebell. 2,649,941, Aug. 25.
Cover: *See*—
Luggage compartment cover.
Wheel cover.
Covering for dispensing nozzles, Protective. R. Hall. 2,649,770, Aug. 25.
Crediting and debiting apparatus for vending machines, Coin-controlled. M. G. Nelsen. 2,649,947, Aug. 25.
Crystalline naphthalene sulfonate salts of streptomycin and dihydrostreptomycin. R. A. Carboni and P. P. Regna. 2,650,216, Aug. 25.
Curtain rod bracket carrier. I. Lundstrom. 2,650,053, Aug. 25.
Cushion and manufacturing the same. L. A. Pfankuch. 2,649,900, Aug. 25.
Cushioning mechanism. G. F. Vala and G. F. Couch. 2,650,087, Aug. 25.
Cutter: *See*—
Disk type potato vine cutter.
Dough cutter.
Shear cutter.
Cutting blade for ditching and cable laying machines. F. R. Ryan. 2,649,747, Aug. 25.
Cutting block. J. W. Cole and L. E. McElroy. 2,649,911, Aug. 25.
Cylinder bore taper gauge. G. E. Smith. 2,649,782, Aug. 25.
Cylinder for hydraulic braking systems, Master. W. Stelzer. 2,649,692, Aug. 25.
Dam form. W. H. Schutte. 2,649,843, Aug. 25.
Dampening roll for lithographic presses. H. H. Colehower, Jr. 2,649,649, Aug. 25.
Decoder for pulse code modulation communication systems. E. Peterson. 2,650,299, Aug. 25.
Decreasing the porosity of calcareous and siliceous materials. C. E. Goulding, Jr. 2,650,173, Aug. 25.
Delay controlled pulse generator. A. C. Munster. 2,650,357, Aug. 25.
Derivatives of 2:3-dihydro-4-methyl-furo(3:2-c) quinoline and preparation thereof. H. Timmler, H. Andersag, and S. Breitner. 2,650,227, Aug. 25.
Derivatives of 2:3-dihydro-4-methyl-furo(3:2-c) quinoline and preparation thereof. H. Timmler, H. Andersag, and S. Breitner. 2,650,229, Aug. 25.
Derivatives of 2:3-dihydro-4-methyl-thieno(3:2-c) quinoline and preparation thereof. H. Timmler, H. Andersag, and S. Breitner. 2,650,228, Aug. 25.
Device for end point determination in fat rendering process. J. E. Thompson. 2,650,343, Aug. 25.
Device for opening packages, primarily cigarette packages. J. F. Wander. 2,649,653, Aug. 25.
Device for providing mold indentations and cleaning mold forming apparatus. J. Varak. 2,649,745, Aug. 25.
Device for releasably securing brush strips in brush rolls. L. E. Segesman. 2,649,603, Aug. 25.
Diaper, Disposable. W. A. and G. I. Hermanson. 2,649,859, Aug. 25.
Diaper, Disposable baby. J. M. Le Bolt. 2,649,858, Aug. 25.
Diaphragm unit, Double. J. H. Province. 2,649,843, Aug. 25.
Dictionary, Spanking. L. L. Erdos. 2,650,097, Aug. 25.
Die for making elbow pipe. J. Petresky, Jr. 2,649,642, Aug. 25.
Dielectric heating. R. H. Hagoplan. 2,650,289, Aug. 25.
Differential pressure operated valve. D. G. Griswold. 2,649,773, Aug. 25.
Discontinuous drying using a heating and a cooling cycle, Method and apparatus for. E. O. Emanuel af Geijerstam. 2,649,789, Aug. 25.
Disk type potato vine cutter. J. Sisho. 2,649,678, Aug. 25.
Dispenser: *See*—
Mustard dispenser. Tablet dispenser.
Dispensing device. J. Flaws, Jr. 2,649,655, Aug. 25.
Dispersing an immiscible pigment in viscose solution. P. van Dijk and H. A. Schrenk. 2,650,168, Aug. 25.
Display advertising and illuminating device. D. Charleston. 2,650,054, Aug. 25.
Display case for wrist-watch bands. L. H. Knibb. 2,649,956, Aug. 25.
Display device. E. E. Hroz. 2,649,970, Aug. 25.
Display stand. F. W. Andrews. 2,649,969, Aug. 25.
Display stand. B. Weil. 2,649,972, Aug. 25.
Doll or manikin joint. F. P. Monaghan. 2,649,806, Aug. 25.
Door lock. E. L. Schlage. 2,650,121, Aug. 25.
Dough cutter. R. Shaw. 2,649,657, Aug. 25.
Draft gear. L. M. Clark and S. H. Fillion. 2,649,073, Aug. 25.
Drainage system for airports and highways. J. N. and C. J. Heltzel. 2,649,720, Aug. 25.
Drawer mechanism for cash registers, Plural. K. Aurbach and A. Klaar. 2,650,023, Aug. 25.
Drawworks. J. B. Picard. 2,650,064, Aug. 25.
Drill: *See*—
Coal drill. Mining drill.
Drip arresting apparatus. C. B. Coleman. 2,650,003, Aug. 25.
Drive for fabric take-up roll of warp knitting machines, Variable-speed. H. C. Noe. 2,649,811, Aug. 25.
Drive mechanism for guillotine knife bars. F. W. Seybold. 2,649,910, Aug. 25.
Driven steering wheel. R. V. Hutchinson and M. A. Thorne. 2,649,922, Aug. 25.
Driving mechanism for velocipedes and the like. E. E. Hood. 2,649,942, Aug. 25.
Dust agitator supporting means for ambulatory vacuum cleaners. E. P. Turner. 2,649,609, Aug. 25.
Electric capacitor. W. F. Skeats. 2,650,334, Aug. 25.
Electric discharge device, Cold cathode. M. A. Townsend. 2,650,320, Aug. 25.
Electric receptacle accessory for locating prong receiving apertures. C. W. Abbott. 2,650,262, Aug. 25.
Electric terminal connector. F. S. Lamb and H. E. Hermanson. 2,650,353, Aug. 25.
Electric water heater. F. G. Adams. 2,650,287, Aug. 25
Electrical conduit connector. R. C. Harrison. 2,650,110, Aug. 25.
Electrical contact assembly. B. Volgovskoy. 2,650,284, Aug. 25.
Electrical discharge device. R. A. Wood. 2,650,323, Aug. 25.
Electrical instrument with permanent magnet core. F. X. Lamb. 2,650,340, Aug. 25.
Electrical terminal. P. S. Ramos. 2,650,286, Aug. 25.
Electrolytes for wet-cell storage batteries. F. A. Johnson. 2,649,766, Aug. 25.
Electromagnetic slip coupling. O. Karsten. 2,650,315, Aug. 25.
Electrometric titration apparatus, Automatic. J. J. Lingane. 2,650,256, Aug. 25.
Electronic control for flushing apparatus. J. R. McRae. 2,649,591, Aug. 25.
Electrowinning of chromium. M. C. Carosella and J. D. Mettler. 2,650,192, Aug. 25.
Elevator mechanism. A. Rancourt. 2,649,934, Aug. 25.
Engine control system for automotive vehicles. J. W. Morse, S. P. Miles, and R. A. Bell. 2,649,908, Aug. 25.
Esters of penicillin from active halogen compounds. H. F. McDuffie, Jr., and D. E. Cooper. 2,650,218, Aug. 25.
Evacuating, filling, sealing, and releasing gas in a container. J. N. Burdick and H. E. Kinne. 2,649,993, Aug. 25.
Evaporating-condensing heat transfer system. J. G. Tandberg. 2,649,696, Aug. 25.
Exhibiting device. W. F. O'Gorman. 2,649,797, Aug. 25.
Extensible towel bar. A. Marchand. 2,649,971, Aug. 25.
Extracting juice from whole citrus fruit, Method of and apparatus for. J. M. Halt. 2,649,730, Aug. 25.
Extrusion of plastics having elastic memory, Method and apparatus for. T. J. Rhodes and J. J. Neville. 2,649,618, Aug. 25.
Eye implant and prosthesis. N. L. Cutler. 2,649,590, Aug. 25.
Face lifting device. M. E. O'Loughlin. 2,649,857, Aug. 25.
Fairleader. M. D. Troyer. 2,650,066, Aug. 25.
Fan structure. M. E. Lautner and S. H. Van Wambeck. 2,650,019, Aug. 25.
Fan support housing. W. J. Morrill. 2,650,020, Aug. 25.
Fastener: *See*—
Window fastener.
Fastener stringer, Two-way separable. L. H. Morin. 2,649,638, Aug. 25.
Feed control for hydraulic motors. J. J. Slomer. 2,649,688, Aug. 25.

Fermented beverages, Making. K. Franck. 2,650,164, Aug. 25.
Filter adapter. G. A. Brace. 2,650,113, Aug. 25.
Filter tip and like composite cigarettes, Manufacture of. W. F. M. Edwards. 2,649,761, Aug. 25.
Finger board for stringed musical instruments and making the same, Fretted. M. Maccaferri. 2,649,828, Aug. 25.
Fire alarm and fire extinguisher, Self-contained. P. J. Showstack. 2,649,752, Aug. 25.
Fire extinguisher discharge head. A. E. Weaver and C. H. Smith. 2,649,919, Aug. 25.
Fishing reel. A. Glaser. 2,650,040, Aug. 25.
Fishing stand. L. A. Hintz. 2,650,052, Aug. 25.
Flight member and mounting therefor. R. B. Nawman. 2,649,954, Aug. 25.
Floor outlet with switch interlock. E. B. Clark. 2,650,331, Aug. 25.
Flow guiding device. H. C. Otis. 2,649,914, Aug. 25.
Flowmeter, Oil well. C. R. Dale. 2,649,710, Aug. 25.
Flowmeter, Oil well. C. R. Dale. 2,649,712, Aug. 25.
Flue boiler with baffle structure in flue, Horizontal. G. H. Brace. 2,649,844, Aug. 25.
Fluid sealing gland. R. Cuny. 2,650,116, Aug. 25.
Folic acid intermediate preparation. D. I. Weisblat and E. I. Fairburn. 2,650,241, Aug. 25.
Footcap. R. P. Kantor. 2,649,588, Aug. 25.
Footwear with body grounding means. W. G. Legge. 2,650,327, Aug. 25.
Forehearth burner block. A. W. Russell. 2,649,903, Aug. 25.
Forming a composite bearing. A. Townhill. 2,649,651, Aug. 25.
Forming waterproof garments. C. V. Green. 2,650,182, Aug. 25.
Foul detecting device. J. A. MacLagan and T. A. Walsh. 2,650,095, Aug. 25.
Fountain applicator device having automatically controlled nozzles. F. Toop. 2,649,601, Aug. 25.
Fragile article packaged in popped corn. A. R. Rausch. 2,649,958, Aug. 25.
Frame: *See*—
Cervical traction frame.
Frame mounting for lift type implements, Nonrigid. A. V. Raught. 2,649,722, Aug. 25.
Fruit gatherer apron. H. F. Brown. 2,649,680, Aug. 25.
Fuel control apparatus for turbojet engines, Selective. R. A. Neal and P. C. Mangan. 2,649,906, Aug. 25.
Fuel control for turbojet power plants, Selective. P. C. Mangan and R. A. Neal. 2,649,905, Aug. 25.
Fuel mileage indicator. W. J. Sturtz. 2,649,709, Aug. 25.
Funnel with leg supports, Fuel dehydrating and straining. T. Johnston. 2,649,966, Aug. 25.
Furans, Preparation of. F. E. Condon and E. E. Burgoyne. 2,650,236, Aug. 25.
Furo and thieno quinaldines and making same. H. Andersag and H. Timmler. 2,650,226, Aug. 25.
Fuse plug for outlet connections, Extension cord. J. Silver. 2,650,279, Aug. 25.
Fuse, Resilient end washer renewable. F. G. von Hoorn. 2,650,283, Aug. 25.
Galvanometer, Induction. R. W. Gilbert. 2,650,348, Aug. 25.
Game apparatus, Driving skill test. J. W. Zimmer. 2,650,094, Aug. 25.
Garment, Child's. E. E. Shiltong. 2,649,589, Aug. 25.
Garment hanger. C. N. Bergstrom. 2,650,006, Aug. 25.
Garment, Protective. H. A. Chappell. 2,649,584, Aug. 25.
Garment shoulder strap holder. E. M. Carlin. 2,649,639, Aug. 25.
Garment with supporter, Shoulderless. P. R. Swearingen. 2,649,587, Aug. 25.
Gas-filled electrical generator. E. Wiedemann. 2,650,313, Aug. 25.
Gas fueled radiant heater. D. A. Jacobson. 2,649,907, Aug. 25.
Gas tank cap valve. A. W. Konchan. 2,649,776, Aug. 25.
Gas turbine adapted as a starter. E. A. Stalker. 2,650,060, Aug. 25.
Gas turbine apparatus. H. O. Pedersen and J. A. Rydmark. 2,650,017, Aug. 25.
Gate: *See*—
Ice cube pitcher gate.
Gauge: *See*—
Cylinder bore taper gauge. Ruler gauge.
Liquid level gauge.
Gauge for paper cutter-drive disconnect for manual operation, Back. S. Frankel. 2,649,912, Aug. 25.
Gauging and assorting device. W. S. Reynolds and J. R. Turner. 2,649,961, Aug. 25
Gear: *See*—
Airplane landing gear. Draft gear.
Gear shift, Power and manually operated. E. J. Barth and P. J. Smith. 2,649,813, Aug. 25.
Generator: *See*—
Delay controlled pulse generator. Gas-filled electrical generator.
Girdle. P. Blatt. 2,649,585, Aug. 25.
Glaw type thermal switch. T. E. Foulke. 2,650,278, Aug. 25.
Gruhber. E. M. Hawkins. 2,650,063, Aug. 25.
Guard for automobiles, Grille. J. A. Barnas. 2,650,126, Aug. 25.
Gyro, Tumbleproof, spillproof, or gimbal-lock-free. S. J. O'Neil. 2,649,809, Aug. 25.
Gyroscope. J. M. Slater, R. M. Benson, and D. L. Freebairn. 2,649,808, Aug. 25.
Hair-fastening means retainable in its position for use. H. Buergi-Schenk. 2,649,763, Aug. 25.
Hairspring assembly. T. P. Dolby. 2,649,684, Aug. 25.
Haloalkoxy derivatives of the cyclic ketals of warfarin. M. Seidman and K. P. Link. 2,650,233, Aug. 25.
Hanger: *See*—
Adjustable coat hanger. Garment hanger.
Harness operating means for looms. F. N. and C. L. Francis. 2,649,863, Aug. 25.
Harvester, Multirow crop. L. A. Paradise. 2,649,677, Aug. 25.
Heater: *See*—
Electric water heater. Side heater.
Gas fueled radiant heater.
Header supported wall for boilers. L. H. Hosbein. 2,649,846, Aug. 25.
Hearing aid construction. W. R. Walters. 2,650,267, Aug. 25.
Heat exchanger core with beam components. W. E. Hammond. 2,650,076, Aug. 25.
Heat exchanger envelope comprising assembled channels and plates. W. E. Hammond and C. A. Ballard. 2,650,077, Aug. 25.
Heat-resistant composition and making same. R. P. Stock. 2,650,206, Aug. 25.
Heatsealing method. N. Langer. 2,650,183, Aug. 25.
Heat supply control. F. M. Varney. 2,650,030, Aug. 25.
Heating of glued joints, High-frequency. W. S. Thompson and H. Renn. 2,649,876, Aug. 25.
Hexuronic acids and derivatives thereof, Preparation of. D. H. Couch and E. A. Cleveland. 2,650,237, Aug. 25.
High-frequency glue curing press. H. Renn. 2,649,877, Aug. 25.
High-pressure metal vapor electric discharge lamp. V. J. Francis and E. H. Nelson. 2,650,322, Aug. 25.
High-pressure pump. J. F. Murray and J. C. Osborne. 2,649,740, Aug. 25.
High-temperature liquid heat system. R. A. Hitch and E. Da Fano. 2,650,031, Aug. 25.
Higher ketones, Production of. F. F. Rust and W. E. Vaughan. 2,650,253, Aug. 25.
Holder: *See*—
Garment shoulder strap holder. Nut and deformable holder.
Holddown shoe for lumber trimming and marking machines. C. A. Sherman. 2,649,875, Aug. 25.
Honing device, External. J. Sunnen. 2,649,663, Aug. 25.
Honing machine. J. Sunnen. 2,649,664, Aug. 25.
Hood, Chemical fume. D. L. Snow and C. S. Staub. 2,649,727, Aug. 25.
Hook: *See*—
Trap hook.
Housing for fan support. W. J. Morrill. 2,650,021, Aug. 25.
Humidifier package with stitched-in suspension means and making same. J. G. Wuppman. 2,649,923, Aug. 25.
Hydrant. N. M. Anderson. 2,649,768, Aug. 25.
Hydraulic control for depth of an implement drawn by a tractor. P. E. Tronquit. 2,649,687, Aug. 25.
Hydraulic expansion device. E. G. Johnson. 2,649,691, Aug. 25.
Hydraulic piston positioning system. S. A. Jacques. 2,649,841, Aug. 25.
Hydraulic pump. K. H. Hoen and J. M. Archer. 2,649,737, Aug. 25.
Hydraulic spring control means. G. W. Crabtree. 2,649,938, Aug. 25.
Ice cube pitcher gate. H. C. Tyson. 2,649,967, Aug. 25.
Ice stacker. L. A. Tripp. 2,649,974, Aug. 25.
Ignition system, Main burner. P. I. Hollman. 2,649,904, Aug. 25.
Ignitor for ignitrons, Grid-controlled. M. Middleton, Jr. 2,650,319, Aug. 25.
Impedance measuring bridge. F. J. Gaffney and H. A. Finke. 2,650,347, Aug. 25.
Index tab device. P. Zalkind. 2,649,706, Aug. 25.
Indicator: *See*—
Cigarette case timing indicator. Wheel toe-in change indicator.
Fuel mileage indicator.
Infrared analyzer. O. G. Koppius. 2,650,307, Aug. 25.
Insole assembling machine. G. F. C. Burke. 2,649,596, Aug. 25.
Instrument for closing the urethra. H. Salm. 2,649,854, Aug. 25.
Insulating device for pipes, faucets, and the like. S. F. Walker. 2,650,180, Aug. 25.
Iron sponge from iron ore, Production of. F. Totzek. 2,650,160, Aug. 25.
Irrigating device, Sprinkler type. H. E. Reinecke. 2,650,132, Aug. 25.
Jack bracket. De M. B. Perkins. 2,650,055, Aug. 25.
Jacketed valve. E. W. Kaiser. 2,649,769, Aug. 25.
Jacquard mechanism and process. J. H. Harding. 2,649,862, Aug. 25.
Joint: *See*—
Doll or manikin joint. Link rod joint.
Joint enclosure, Expansion. E. W. Kaiser. 2,650,111, Aug. 25.
Joint for oil-filled cables, Stop. E. Sesini and M. Pierazzuoli. 2,650,260, Aug. 25.





Jointer attachment for portable eelctric drills. J. J. Konopa. 2,649,874, Aug. 25.
Journal assembly. J. W. Wakley. 2,650,142, Aug. 25.
Juice extracting method and apparatus, Citrus fruit. R. Polk, Sr., and R. Polk, Jr. 2,649,731, Aug. 25.
Ketone-diarylamine condensates, Preparation of. I. Mankowich. 2,650,252, Aug. 25.
Kettle for cheese curd, Mixing. K. Zeller and K. Lenz. 2,650,079, Aug. 25.
Keyboard interlock. H. T. Avery. 2,650,027, Aug. 25.
Kitchen appliance, scraper-collector. A. M. Hess. 2,649,804, Aug. 25.
Klystron, Self-tuning. M. Garbuny. 2,650,324, Aug. 25.
Knife for food choppers, Cutting. F. S. Chopieska. 2,649,882, Aug. 25.
Knitting machine, Straight bar. K. W. Wickardt. 2,649,703, Aug. 25.
Knockdown table. E. J. Sauder. 2,650,147, Aug. 25.
Lamp: *See*—
High-pressure metal vapor electric discharge lamp.
Lamp cooling device in suction cleaners. J. E. Vance. 2,649,607, Aug. 25.
Lamp harp. K. Berger. 2,650,294, Aug. 25.
Lamp having a reflector, two lenses, and means to vary the distance between them. H. H. Strong. 2,650,292, Aug. 25.
Lamp transfer apparatus. J. H. Brooks. 2,649,975, Aug. 25.
Lamp unit and support structure therefor. E. B. Noel. 2,650,321, Aug. 25.
Latch mechanism. R. C. Hopgood. 2,650,123, Aug. 25.
Latch mechanism. N. A. Welch. 2,650,122, Aug. 25.
Lead wire for initiating devices. G. R. Feild. 2,649,735, Aug. 25.
Lever mechanism for ball cocks. H. F. Smith. 2,649,772, Aug. 25.
Lever system for steam traps. J. W. Kaye. 2,649,815, Aug. 25.
Lifting device. H. K. Hecker. 2,649,933, Aug. 25.
Light source shielding means for fluorescent luminaire. N. R. Aabberly. 2,650,293, Aug. 25.
Lightweight coated aggregate granules, Making. C. F. Schaaf. 2,650,171, Aug. 25.
Lightning arrester. E. J. Ehrbar. 2,650,325, Aug. 25.
Lightning arrester. H. O. Stoelting. 2,650,330, Aug. 25.
Linear motion device. E. Abrahamson. 2,650,312, Aug. 25.
Lines for racquets, Manufacture of. J. T. Crandall. 2,649,833, Aug. 25.
Link rod joint. J. H. Booth and R. E. Ricks. 2,650,119, Aug. 25.
Liquid dispersion separating device. C. S. Taylor. 2,649,904, Aug. 25.
Liquid level control apparatus. A. S. Parks. 2,649,771, Aug. 25.
Liquid level gauge. A. S. Griffith, Jr. 2,649,714, Aug. 25.
Litter, Treated clay animal. S. E. Gibbs. 2,649,739, Aug. 25.
Lock: *See*—
Door lock.
Lock mechanism, Coin-controlled. W. Stackhouse. 2,649,949, Aug. 25.
Locking collar. S. M. Cooper. 2,650,141, Aug. 25.
Locking device for caps of up-twister machines. W. V. Henry. 2,649,683, Aug. 25.
Louver construction. J. H. Baxter and R. B. Johnson. 2,649,629, Aug. 25.
Lubricating means. D. M. Wood. 2,649,929, Aug. 25.
Lubricating oil, Preparation of. G. E. Reese and J. L. Larkin. 2,650,188, Aug. 25.
Luggage compartment cover. J. Donald, M. W. Stimson, and R. Birza. 2,649,940, Aug. 25.
Luggage compartment liner. J. Donald, M. W. Stimson, and R. Birza. 2,649,939, Aug. 25.
Machine and method for producing corner beads for use in dry-built construction. A. H. Dunlap and F. S. and W. C. Boldrin. 2,649,800, Aug. 25.
Machine for applying a treating liquid to yarns. W. W. Egee and J. W. Bennett. 2,649,756, Aug. 25.
Machine for forming glass articles. L. C. Kahle. 2,649,650, Aug. 25.
Machine for skinning hogsides. D. L. Runnells, Jr., and P. F. Burch. 2,649,881, Aug. 25.
Machine for the recovery of used foundry sand. J. W. Thomley, Jr. 2,649,630, Aug. 25.
Machine for winding a web of material. D. N. Judelson. 2,650,037, Aug. 25.
Magnetic amplifier circuit. M. Ker. 2,650,342, Aug. 25.
Magnetic railway brake. C. E. Tack. 2,649,935, Aug. 25.
Magnetic testing apparatus. D. Lloyd. 2,650,344, Aug. 25.
Mapping system, Automatic. D. H. Clewell. 2,649,781, Aug. 25.
Marketing goods, Means for. K. C. Purdy. 2,649,930, Aug. 25.
Mass spectrometer. C. F. Robinson. 2,650,306, Aug. 25.
Massager, Youth-chin. G. L. Hanrahan. 2,649,855, Aug. 25.
Mattress, Adjustable bed. M. M. Lewin. 2,649,595, Aug. 25.
Means to close filling opening in prepared poultry. R. B. Holt. 2,649,614, Aug. 25.
Means to eject dust bag from vacuum cleaner casing. G. H. Cranmer. 2,649,926, Aug. 25.
Measuring apparatus and method, Automatic. M. Goland and P. D. Wickersham. 2,650,057, Aug. 25.
Measuring device, Dew-point. E. W. Donath and B. A. Ritzenthaler. 2,649,707, Aug. 25.
Mechanism for automatically feeding box ends in nailing machines. G. C. Paxton. 2,649,582, Aug. 25.
Mechanism for corrugating strips of material. J. E. Fay. 2,649,888, Aug. 25.
Mechanism for peeling the stem indents of fruit. R. L. Ewald and H. A. Skog. 2,649,879, Aug. 25.
Mechanism for processing fruit. R. L. Ewald and H. A. Skog. 2,649,880, Aug. 25.
Melody combs, Making. T. R. Duncan. 2,649,652, Aug. 25.
Mercury switch mounting. L. H. McCammant. 2,650,274, Aug. 25.
Meso-halogeno-aza-acridines, Manufacture of. A. A. Goldberg and D. M. Besly. 2,650,223, Aug. 25.
Metal cutting tool. E. J. Kaiser. 2,649,818, Aug. 25.
Metering apparatus, Liquid. L. R. Dunavant. 2,649,713, Aug. 25.
Method and device for driving tubular bodies into the ground by means of fluid jets. E. Pickman. 2,649,694, Aug. 25.
Method of and machine for packaging material in an inert gaseous atmosphere. H. L. Bartelt. 2,649,671, Aug. 25.
Microwave heating. T. P. Kinn. 2,650,291, Aug. 25.
Milk-papaya powders, beverages made therefrom, and producing the same. A. S. Wahi. 2,650,165, Aug. 25.
Milk product enhanced in amino acids and peptides. F. H. Tinkler, R. C. Stribley, and J. G. Kennedy. 2,650,160, Aug. 25.
Mine haulage vehicle. J. J. Slomer. 2,649,980, Aug. 25.
Mining drill. T. E. Rassieur. 2,650,071, Aug. 25.
Mixing and dispensing a luminescent coating composition. J. J. O'Callaghan. 2,650,190, Aug. 25.
Moistureproofing of nonfibrous cellulosic material. W. O. Brillhart. 2,650,172, Aug. 25.
Molding machine. E. P. Moslo. 2,649,621, Aug. 25.
Molding synthetic linear polyesters. J. A. Piccard. 2,649,622, Aug. 25.
Motion-picture machine and film feeding mechanism. R. A. Clapp. 2,649,836, Aug. 25.
Motor: *See*—
Special purpose electric motor.
Motor and motor control means, Electric. S. Noodleman. 2,650,336, Aug. 25.
Motor comprising relatively extensible and contractible piston and cylinder elements, Fluid pressure. H. B. Caldwell and K. G. Hancock. 2,649,842, Aug. 25.
Mount for aircraft engines, Movable. M. E. Chandler. 2,650,050, Aug. 25.
Mounting: *See*—
Mercury switch mounting.
Mounting rotors on arbors of various transaxial contours. D. E. Gommel. 2,649,868, Aug. 25.
Multiple expansion rotary drill bit. A. W. Kammerer. 2,650,072, Aug. 25.
Mustard dispenser. E. Jeunesse. 2,650,001, Aug. 25.
N-allyl- and N-butenyl-hydantoic acid. A. Halpern. 2,650,247, Aug. 25.
N-methylol-p-vinyl benzamide. J. N. Milne, D. Faulkner, and C. E. Hollis. 2,650,250, Aug. 25.
Nail extracting device. J. J. and R. A. Denovan. 2,650,061, Aug. 25.
Nail, Sheet metal self-locking. E. P. Anstett. 2,649,831, Aug. 25.
New phthalide compounds and their preparation. J. H. Boothe and J. P. Petisi. 2,650,235, Aug. 25.
Nozzle for the ejection of fluid streams. W. W. Spooner. 2,650,131, Aug. 25.
Nozzle with plural mouths for suction cleaners, Valved cleaning. L. E. Segesman. 2,649,610, Aug. 25.
Nut and deformable holder. V. Sharp. 2,649,883, Aug. 25.
Oil-soluble petroleum sulfonates. W. Krönig, H. Seeles, and H. Burmeister. 2,650,198, Aug. 25.
Oil well hydrostatic cleanout bailer, Combination. A. L. Simmons. 2,649,917, Aug. 25.
Opener, Letter. H. B. Hedrick. 2,649,656, Aug. 25.
Optical feed-back densitometer. M. H. Sweet. 2,649,834, Aug. 25.
Oscillation network with circuits for developing voltages in accordance with angular positions of radiated antenna beams. G. B. Crane. 2,650,358, Aug. 25.
Oxy-phenyl cyclohexane- and cyclohexene-carboxylic acids and derivatives. F. C. Novello. 2,650,243, Aug. 25.
Packaging machine. H. L. Bartelt. 2,649,673–4, Aug. 25.
Packaging machine. G. A. Moore. 2,650,010, Aug. 25.
Packaging machine, Automatic. R. E. Read. 2,650,058, Aug. 25.
Pad attachment for telephones, Sanitary. H. Webb. 2,650,269, Aug. 25.
Padding support. H. E. Williams. 2,649,899, Aug. 25.
Pan and storage tray, Combined defrost. R. C. Sandin. 2,649,697, Aug. 25.

Parachute load release. N. W. Carlson. 2,650,127, Aug. 25.
Parcel bag. H. I. McMillan. 2,650,016, Aug. 25.
Paring and coring machine, Tomato. B. C. Coons. 2,649,878, Aug. 25.
Pedal operating device, Remote-control. T. P. Brazell. 2,649,814, Aug. 25.
Pharmaceutical preparations. J. B. Miller. 2,649,918, Aug. 25.
Phosphorescent coated sheet material. J. Goldstein. 2,650,169, Aug. 25.
Phosphoric acid catalyst, Production of. J. M. Mavity. 2,650,201, Aug. 25.
Phthalide compounds and their preparation. J. H. Boothe and S. Kushner. 2,650,234, Aug. 25.
Pipe and coupling therefor, Double walled. A. Kinkead. 2,650,112, Aug. 25.
Pipe and fitting connection, Sheet metal. S. Epstein. 2,650,114, Aug. 25.
Pipe ash ejector. J. Di Federico and N. S. Di Lorenzo. 2,649,762, Aug. 25.
Pipe assembly, Jet pump. J. E. Armstrong. 2,649,742, Aug. 25.
Pipe clamp. L. Deutsch and E. C. Busch. 2,649,640, Aug. 25.
Pipe coupling. E. H. Taylor. 2,650,115, Aug. 25.
Pipe gripping mechanism for power tongs. C. A. Lundeen. 2,650,070, Aug. 25.
Pistol construction. C. L. Parris. 2,649,849, Aug. 25.
Piston ring. H. M. Olson. 2,650,143, Aug. 25.
Piston ring. H. P. Phillips. 2,650,144, Aug. 25.
Pivoted lever type line clamp. E. A. Peterson. 2,649,635, Aug. 25.
Planer attachment for rotary saws. J. J. Miller. 2,649,872, Aug. 25.
Planing machine, Electrically driven hand. K. Reich and G. Walliser. 2,649,873, Aug. 25.
Plant shipping container. A. S. Ritter. 2,649,867, Aug. 25.
Planter. C. W. Walz and H. F. Clausen. 2,650,000, Aug. 25.
Plow, Reversible ditching. L. A. Draves. 2,649,793, Aug. 25.
Plow, Self-sharpening rotary. C. G. Tubbs. 2,649,723, Aug. 25.
Plural counter selecting and operating means. J. Handley. 2,650,025, Aug. 25.
Pneumatic tires, Method and apparatus for making. D. J. Hinman. 2,649,891, Aug. 25.
Point forming mechanism. H. A. Corbett. 2,649,821, Aug. 25.
Polyesters of alkenyl-succinic acids. H. Dannenberg and J. R. Schelbli. 2,650,211, Aug. 25.
Polyethylene terephthalate, Production of. C. H. Hofrichter, Jr. 2,650,213, Aug. 25.
Polymer and preparing same. F. Strain. 2,650,215, Aug. 25.
Polymeric material derived from N-methylol paravinyl benzamide. J. N. Milne, D. Faulkner, and C. E. Hollis. 2,650,210, Aug. 25.
Polymers. R. N. Macdonald. 2,650,214, Aug. 25.
Positioning mechanism for lift type implements. R. T. Spedding. 2,640,721, Aug. 25.
Poultry shackle. O. W. Swanson. 2,649,616, Aug. 25.
Pouring spout. L. L. Smith. 2,650,004, Aug. 25.
Power feed mechanism for machine tools. J. Renmen. 2,649,646, Aug. 25.
Power grip bead breaker for tires. J. N. Johnson. 2,649,902, Aug. 25.
Preparing fresh frozen seasoned hamburger. O. P. Garsaud. 2,650,167, Aug. 25.
Press: *See*—
High-frequency glue curing press.
Preventing flotation of floc. A. A. Kalinske and L. H. Scott. 2,650,193, Aug. 25.
Preventing loss of fluid into thief formations. P. H. Cardwell and F. H. Brauntlich, Jr. 2,650,195, Aug. 25.
Printing assistants for vat colors comprising zirconium salts. J. M. Mecco. 2,650,152, Aug. 25.
Printing machine, Rotary multicolor transfer. M. Ras. 2,649,734, Aug. 25.
Product transfer mechanism. E. J. Rapp. 2,649,952, Aug. 25.
Production of iron in a blast furnace. F. Totzek. 2,650,161, Aug. 25.
Propeller for fluid. G. S. Faber. 2,649,921, Aug. 25.
Protective device for transformers. G. M. Stein. 2,650,356, Aug. 25.
Pulse converting circuits. K. G. Huntley. 2,650,300, Aug. 25.
Pump: *See*—
Constant-pressure variable displacement pump.
High-pressure pump.
Hydraulic pump.
Pump. K. Henrichsen. 2,649,741, Aug. 25.
Quinine-penicillin, Production of. T. J. Macek. 2,650,217, Aug. 25.
Rack for phonograph records and the like, Display. F. H. Rice. 2,649,968, Aug. 25.
Radiant energy detecting method and apparatus. R. Bray and K. Lark-Horovitz. 2,650,311, Aug. 25.
Radiator pressure cap. A. W. Konchan. 2,649,986–7, Aug. 25.
Radio navigation system. W. W. Brockway and D. G. Shearer. 2,650,359, Aug. 25.
Radio program selector, Time controlled. H. F. Gavigan. 2,650,272, Aug. 25.
Radio receiving system. C. L. Dawron. 2,650,297, Aug. 25.
Rake, Side delivery. G. B. Hill. 2,649,681, Aug. 25.
Ratchet operated socket wrench. W. J. Markovich. 2,649,823, Aug. 25.
Razor boner, Automatic. S. Rosenbeck. 2,649,666, Aug. 25.
Reaction product of antipyrine aldehyde, p-aminobenzene sulfonamide and sodium bisulfite. J. H. T. Ledrut. 2,650,219, Aug. 25.
Receptacle filler and capper having receptacle carrier and capper indexing means. T. H. Kummer and R. E. Bodendoerfer. 2,650,012, Aug. 25.
Reciprocating block. L. Berkepeis. 2,650,036, Aug. 25.
Reconditioning the extruding face of spinnerettes. W. Martin and W. Heynen. 2,649,670, Aug. 25.
Record member. K. S. Ferrin. 2,650,024, Aug. 25.
Recording device for cash registers, accounting machines, and the like. A. Klaar. 2,649,732, Aug. 25.
Rectifier tube and system. P. M. G. Toulon. 2,650,318, Aug. 25.
Reed tester. M. Macenferri. 2,640,708, Aug. 25.
Reel: *See*—
Advancing reel.
Fishing reel.
Reel unit, Clothesline. W. F. Albers. 2,650,041, Aug. 25
Refiner, Rotary. E. P. Arpin, Jr., and R. P. Frye. 2,649,717, Aug. 25.
Refiner, Rotary. E. P. Arpin, Jr. 2,640,718, Aug. 25.
Refrigerator cabinet. C. G. Minor. 2,640,699, Aug. 25.
Regenerator and precooler for gas turbine cycles, Combined. S. Holm. 2,650,073, Aug. 25.
Register for meters. F. C. Amsbary, Jr., and S. G. Moore. 2,650,026, Aug. 25.
Regulator: *See*—
Barometric draft regulator.
Voltage regulator.
Regulator valve. O. Lamb. 2,649,661, Aug. 25.
Release control apparatus for fluid pressure brakes. A. T. Gorman. 2,650,137, Aug. 25.
Repairing metal castings. G. Javor. 2,649,650, Aug. 25.
Resin purification of sugar solutions. H. W. Meijer. 2,650,177, Aug. 25.
Reversing mechanism. J. J. Pukt. 2,649,810, Aug. 25.
Rewinding machine. T. N. Carter. 2,650,039, Aug. 25.
Rewinding machine, Automatic web. J. Klevit. 2,650,038, Aug. 25.
Ring: *See*—
Piston ring.
Rod: *See*
Weld rod.
Rodenticidal compositions. G. Hecht, H. Henecka, and M. Meisenheimer. 2,650,186, Aug. 25.
Roller for roller mills, Hollow water cooled. H. K. Wiemer. 2,650,034, Aug. 25.
Rotary hydraulic coupling. C. A. Oding. 2,649,689, Aug. 25.
Ruler gauge. L. J. Klimek. 2,649,784, Aug. 25.
Safe, Letter. O. H. and E. M. Smith. 2,650,150, Aug. 25.
Safety arrangement for presses. C. J. Meyers. 2,640,943, Aug. 25.
Safety arrangement for presses, Switchless. C. J. Meyers. 2,649,944, Aug. 25.
Salts of 7-iodo-8-hydroxy-quinoline-5-sulfonic and 7-halo-quinolines carrying a dialkylamino-alkylamino substituent in the 4-position. K. Koenig and H. Andersag. 2,650,224, Aug. 25.
Sash and frame, Adjustable. J. E. Haynes. 2,640,628, Aug. 25.
Saw attachment for drills and the like. E. W. Desbarat. 2,649,871, Aug. 25.
Scabbard. H. Morseth. 2,650,008, Aug. 25.
Scaffold connection. J. A. Kirkpatrick. 2,650,120, Aug. 25.
Scintillation counter and composite phosphor therefor. E. L. Webb and R. C. Fox. 2,650,309, Aug. 25.
Scouring implement. D. L. Eastman. 2,650,158, Aug. 25.
Scratch marker for measuring tape. H. T. Kobayashi. 2,649,787, Aug. 25.
Screw driver, Fault detecting power-driven. S. Kellien and J. Discenza. 2,649,870, Aug. 25.
Scroll bending apparatus. H. R. Lehman. 2,649,887, Aug. 25.
Seal assembly, Suction roll. L. Hornbostel. 2,649,719, Aug. 25.
Seal for cable end terminals, High-pressure. C. L. Marks. 2,650,259, Aug. 25.
Seal hanger for floating roof tanks. F. D. Moyer. 2,649,985, Aug. 25.
Sealing device. A. M. Chambers, Jr., and L. F. Jones. 2,650,117, Aug. 25.
Seat: *See*—
Spring and air cushion seat.
Seat back spring. M. Stubnitz. 2,649,895, Aug. 25.
Seat cushion, Spring. M. Stubnitz. 2,649,896, Aug. 25.
Semiconductor photosensitive device. J. I. Pantchechinkoff. 2,650,258, Aug. 25.
Separating sugar juice, pith, and fiber from stalks. P. M. Horton and A. G. Keller. 2,650,176, Aug. 25.
Separation of tyrosine and cystine. E. V. Cardinal. 2,650,242, Aug. 25.



Separator: *See*—
Vacuum cleaning water separator.
Separator for sheet feeding apparatus, Magnetic. L. W. Wall. 2,650,092, Aug. 25.
Sewing and tufting fabric sections. J. K. McCutchen. 2,649,748, Aug. 25.
Sharpening machine, Broach. B. Welte. 2,649,662, Aug. 25.
Shear cutter, M. Pluto. 2,649,648, Aug. 25.
Sheet cutting and inspecting means. C. W. Martin, C. W. Beck, and J. W. Pick. 2,650,091, Aug. 25.
Shock absorber and stabilizer, Double-acting. A. Formanek. 2,650,088, Aug. 25.
Shoe wiper, Automatic. W. Leadingham. 2,649,599, Aug. 25.
Shuffler for playing cards. L. E. Almgren. 2,650,096, Aug. 25.
Side heater. H. C. Kremers. 2,650,254, Aug. 25.
Signal device associated with windshield. P. J. Pierzonka. 2,650,355, Aug. 25.
Signaling system, Coded track circuit. W. H. Reichard. 2,650,295, Aug. 25.
Silicate adsorbent, Production of. R. J. Hawes and C. C. Winding. 2,650,202, Aug. 25.
Silicate adsorbents, Preparation of. R. J. Hawes and C. C. Winding. 2,650,203, Aug. 25.
Sine bar fixture. P. J. Sirko. 2,649,785, Aug. 25.
Sisal fiber and wax, Producing. P. F. Bruins. 2,649,624, Aug. 25.
Skewed stator construction. F. J. Johns and A. Jokl. 2,650,316, Aug. 25.
Skip. A. Finlay and J. W. Clark. 2,649,983, Aug. 25.
Slitting device for wire insulation or the like. P. Carta. 2,649,654, Aug. 25.
Snap freezing by cooling a mass while under pressure and quickly relieving the pressure. E. P. Kellie. 2,649,702, Aug. 25.
Sounding board for stringed musical instruments. M. Maccaferri. 2,649,827, Aug. 25.
Special purpose electric motor. G. W. Hennigh and H. D. Ridge. 2,650,314, Aug. 25.
Speed indicating device for outboard motors. D. A. Armstrong. 2,640,848, Aug. 25.
Spliced veneer sheet offbearing mechanism. A. C. Carlson. 2,649,970, Aug. 25.
Sponge and squeegee window cleaning device, Combined. P. R. Loveland. 2,649,600, Aug. 25.
Spring: *See*—
Seat back spring.
Spring anchor nut, Expanding. J. W. Arnold. 2,649,830, Aug. 25.
Spring and air cushion seat. M. Stubnitz. 2,649,897, Aug. 25.
Spring control means, Hydraulic. G. W. Crabtree. 2,649,937–8, Aug. 25.
Spring controlling unit, Hydraulic. G. W. Crabtree. 2,649,936, Aug. 25.
Spring dampener. J. L. Sjolander. 2,650,086, Aug. 25.
Spring or gravity biased radial seal. C. A. Ballard. 2,650,074, Aug. 25.
Spring pressure device for planting attachments. W. P. Oehler and C. H. Youngberg. 2,649,725, Aug. 25.
Spring shackle. W. E. Martin. 2,650,089, Aug. 25.
Stabilizers for rubber and synthetic polymers. W. F. Arey, Jr., and R. E. Wood. 2,650,208, Aug. 25.
Stabilizing device for vehicles and other purposes. G. O. Mennig. 2,650,107, Aug. 25.
Stand: *See*—
Display stand.
Fishing stand.
Stand and beverage dispenser, Combination serving. G. W. Klenk. 2,649,997, Aug. 25.
Steering knuckle and tie rod connection. O. S. French. 2,650,106, Aug. 25
Stepladder. H. Harrison. 2,650,014, Aug. 25.
Stereoscopic viewer. J. C. Wiese. 2,649,837, Aug. 25.
Stool, Folding. J. J. Simmons. 2,649,894, Aug. 25.
Stop device for rod shears. V. F. Linder. 2,649,913, Aug. 25.
Stopper attachment for internally threaded lathe chucks, Threaded. J. A. Darling. 2,650,098, Aug. 25.
Storing and dispensing apparatus, Article. C. Bocklus. 2,649,902, Aug. 25.
Strainer arrangement for dishwashing machines, Self-cleaning. O. M. Anderson. 2,649,765, Aug. 25.
Strap-attaching means for buttonloops, buckles, etc., Adjustable. R. J. Hodge. 2,649,637, Aug. 25.
Stretch-breaking textile filaments, Method and apparatus for. R. M. Ingham, Jr. 2,649,623, Aug. 25.
Strip feeding apparatus. J. T. Davidson and P. G. Stimson. 2,650,090, Aug. 25.
Structure for conducting fluid mediums. T. B. Hughes. 2,649,795, Aug. 25.
Submarine core sampling. W. W. Rand. 2,650,069, Aug. 25.
Suction cleaner. G. E. Kaufman. 2,649,608, Aug. 25.
Suction cleaner. D. B. Tschudy. 2,649,925, Aug. 25.
Sugar crystallizer. L. M. I. Rodriguez. 2,650,175, Aug. 25.
Suit for farmers, Work. R. J. Schaeffer. 2,649,583, Aug. 25.
Sulfur from hydrogen sulfide, Production of. H. M. Anderson. 2,650,154, Aug. 25.
Support: *See*—
Padding support.
Support. W. J. Masoner. 2,650,036, Aug. 25.
Support and clamp for drill press tables, Work. R. L. Hussey. 2,649,819, Aug. 25.
Support for disk type implements, Scraper. J. A. Barna. 2,649,724, Aug. 25.
Support for rotatable antenna structures. C. A. Zarobsky and J. F. Seybold. 2,650,051, Aug. 25.
Supports for traction elements, Laterally extensible. T. E. Grace. 2,650,104, Aug. 25.
Surface finishing of aluminum and its alloys. E. Shelton-Jones. 2,650,150, Aug. 25.
Surgical instrument. J. E. E. Royer. 2,640,860, Aug. 25.
Suspension for automobiles and other vehicles. E. G. Bruce. 2,650,108, Aug. 25.
Switch: *See*—
Glow type thermal switch.
Switch apparatus, Radio frequency. W. L. Corteggiano and J. A. Redmond. 2,650,285, Aug. 25.
Switch construction, Vibrator. P. C. Reck and L. J. Stern. 2,650,277, Aug. 25.
Switch mechanism, Direction indicator. J. M. Osgian. 2,650,273, Aug. 25.
Synchronizing of an induction motor. E. M. Leyton. 2,650,335, Aug. 25.
Synthesis of acetic acid from CO and methanol. E. B. Thomas and E. H. Alcock. 2,650,245, Aug. 25.
Synthetic drying oils and preparing same. J. F. Nelson and A. H. Gleason. 2,650,209, Aug. 25.
System of auxiliary carburetion for internal-combustion engines. E. A. Rockwell. 2,650,081, Aug. 25.
Table: *See*—
Collapsible wall table.
Knockdown table.
Table and leg fastening therefor, Apronless. J. Streng. 2,650,148, Aug. 25.
Table and means for detachably connecting the same to a support, Folding. C. M. Mugler. 2,650,146, Aug. 25.
Tablet dispenser. H. B. Lewis, G. M. Larson, and H. Field, Jr. 2,649,994, Aug. 25.
Tank for fowl, Sectional scalding. A. W. Sharp. 2,649,615, Aug. 25.
Telegraph system, Dual channel. S. D. Browning. 2,650,266, Aug. 25.
Telescope. L. E. Braymer. 2,649,791, Aug. 25.
Telescope sight mount, Detachable. R. R. Hardgrove and E. T. Lake. 2,649,779, Aug. 25.
Telescoping magnifying lens and handle. R. S. Krause and E. H. Seibert. 2,649,838, Aug. 25.
Television booster circuit. E. F. Thias, T. L. Fischer, T. F. Gossard, and W. W. White. 2,650,298, Aug. 25.
Temperature measuring and indicating apparatus. R. W. Goble. 2,649,715, Aug. 25.
Testing torpedo depth control mechanism, Means for. E. G. Burgess, Jr. 2,649,750, Aug. 25.
Thread holder for weft replenishing looms, Pneumatic. R. F. Dion. 2,649,865–6, Aug. 25.
Tilting electrical melting furnace of egg shaped cross section. L. K. G. Hoge and L. Dreyfus. 2,650,255, Aug. 25.
Timber setting machine. C. F. Ball. 2,649,979, Aug. 25.
Timing device, Electric. E. H. Farmer. 2,650,301, Aug. 25.
Timing system. N. B. Taylor. 2,650,333, Aug. 25.
Tire bead stitching mechanism. P. E. Appleby. 2,649,892, Aug. 25.
Tire lug. E. V. Brown. 2,640,885, Aug. 25.
Tire spreader. G. E. Anderson. 2,650,062, Aug. 25.
Tire truing device. F. L. Anderson and G. Bowers. 2,649,665, Aug. 25.
Tonster, Electric. R. H. Smith. 2,649,729, Aug. 25.
Toggle type connecting assembly. J. S. Kessler. 2,649,632, Aug. 25.
Tool: *See*—
Angle measuring tool.
Metal cutting tool.
Toolholder. S. A. Sternbergh and C. S. Knabb. 2,649,647, Aug. 25.
Toolholder for tank type vacuum cleaners. G. R. Fadner. 2,649,666, Aug. 25.
Toothbrush package. E. M. Hallahan. 2,649,959, Aug. 25.
Toy blocks, Snap-fastener. R. F. Andre. 2,649,803, Aug. 25.
Toy with automatically steering cyclist, Wheeled. R. J. Lohr. 2,649,805 Aug. 25.
Track and bracket. A. C. Loomis. 2,649,612, Aug. 25.
Track spike with circumferentially extending deformable projection. C. E. Godfrey. 2,650,032, Aug. 25.
Trailer, Boat. E. P. Keaton. 2,650,099, Aug. 25.
Trailer hitch, Auxiliary type safety. T. L. Frankfother. 2,650,101, Aug. 25.
Transfer means for pillow feathers and the like. W. D. L. Anderson. 2,650,011, Aug. 25.
Transformer unit. E. Gostyn. 2,650,351, Aug. 25.
Transmission. E. C. La Voique. 2,649,817, Aug. 25.
Transmission and reaction torque device. O. R. Kuster and R. C. Ried. 2,649,816, Aug. 25.
Trap hook. L. E. Poston. 2,649,802, Aug. 25.
Travel unit, Child's. E. N. Kirsten. 2,649,593, Aug. 25.
Treating arsenical gold ores. D. T. Tarr, Jr. and F. A. Fischer. 2,650,159, Aug. 25.
Treating methyl acetate. M. Mention and J. Mercier. 2,650,249, Aug. 25.
Triazine derivative. J. J. Roemer and D. W. Kaiser. 2,650,220, Aug. 25.

Trichloro methyl thiocyanate and preparing same. J. F. Olin. 2,650,240, Aug. 25.
Trophy and beverage shaker, Bottle containing. E. C. Abt. 2,649,984, Aug. 25.
Trough, Sickle guard grain collecting. C. M. Hawkins. 2,649,679, Aug. 25.
Truck, Dye-house. J. P. King and H. T. Fitting. 2,649,965, Aug. 25.
Truck, Hand. N. Tessier and N. Blacker. 2,649,981, Aug. 25.
Tube: *See*—
Caulking compound tube.
Tube expanding. F. E. Dudley. 2,649,889, Aug. 25.
Tubing or casing, Flexible. A. A. Buffet. 2,649,778, Aug. 25.
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Universal safety temperature control. R. D. Grayson. 2,650,028, Aug. 25.
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U. S. GOVERNMENT PRINTING OFFICE : O—1953

# DECISIONS IN PATENT AND TRADE-MARK CASES

## U. S. Court of Customs and Patent Appeals

MORWAY ET AL. v. BONDI

*No. 5915. Decided April 15, 1953*

[202 F.2d 763; 97 USPQ 318]

1. INTERFERENCE—REDUCTION TO PRACTICE—USE OF COMPOSITION CONSIDERED ALTHOUGH NOT CLAIMED.

Although the counts are not limited to any particular type of use for the lubricant, *Held* that it is proper, in deciding the question of reduction to practice, to consider that the appellee's efforts were directed toward developing a high performance wheel bearing grease usable under high temperature, heavy service conditions, in order to meet the shortcomings of their company's then existing product.

2. SAME—SAME—MERELY MAKING PRODUCT SATISFYING COUNT NOT NECESSARILY SUFFICIENT.

Although certain products or substances may be held fully reduced to practice when made, without the need of tests, *Held* that mere compounding does not establish a reduction to practice where the inventor's aim is to produce a new product superior to existing products in meeting a problem in the art.

3. SAME—SAME—CRITERIA AS TO LABORATORY TESTS.

"Laboratory tests may also constitute a reduction to practice under some circumstances, but such tests must simulate actual service conditions with sufficient clearness to render it reasonably certain that the subject matter will perform its intended function in actual service."

4. SAME—SAME—PARTY'S ACTIONS AFTER LABORATORY TEST CONSIDERED.

Where a party schedules field tests subsequent to a laboratory test and delays commercializing the product for 14 months after the laboratory test, *Held* that it is a fair inference that the party did not attach such significance to the laboratory test as to indicate a reduction to practice.

5. SAME—SAME—NOT NEGATIVED BY SUBSEQUENT EXPERIMENTATION.

*Held* that, if appellants established by a preponderance of evidence a timely reduction to practice, it is clear that subsequent experimentation for improvement purposes would not have negatived the reduction to practice and its legal effects.

6. SAME—SAME—OTHER PROJECTS DO NOT EXCUSE LACK OF DILIGENCE.

Where appellant urges that sporadic activity by the inventors was due to their having other primary duties, *Held* that when the party first to conceive voluntarily lays aside his inventive concept because he is engrossed in pursuit of other projects, this is generally not an acceptable excuse for failure to act diligently in reducing to practice.

7. SAME—SAME—DILIGENCE AS RELATED TO WAR ACTIVITIES.

"In proper cases, war activities may reasonably excuse the first conceiver's failure to act diligently, but lack of diligence is not excused by a mere assertion that the applicant is engaged in war work."

8. SAME—SAME—NEED NOT PROVE SUPERIORITY TO EXISTING PRODUCTS.

*Held* that approval of the appellants' product by the Government constituted an actual reduction to practice notwithstanding that there is no evidence of record establishing that the product tested was superior to appellants' existing product which had previously been approved.

9. SAME—PRIORITY OF INVENTION—LUBRICATING GREASE.

The decision of the Board of Interference Examiners awarding priority of invention of certain counts to a lubricating grease to appellee is affirmed.

APPEAL from Patent Office. Interference No. 83,557.

AFFIRMED.

*Edwin M. Thomas* (*W. F. Weigester* and *C. D. Stores* of counsel) for appellants.

*Herbert L. Shepard* (*Edward B. Beale* of counsel) for appellee.

JOHNSON, *J.*:

This is an appeal by the party Arnold J. Morway, Alan Beerbower and John C. Zimmer, hereinafter designated Morway et al. or simply Morway, junior party in patent Interference No. 83,557. The appeal is taken from the decision by the Board of Interference Examiners awarding priority of invention to the senior party, Arnold A. Bondi, hereinafter referred to as Bondi. The party Morway filed an application for patent, Serial No. 718,896, on December 27, 1946, entitled "Lubricating Grease Compositions" and the party Bondi filed an application, Serial No. 655,887, on March 20, 1946, entitled "Production of Anhydrous Soda Base Lubricating Greases."

Since appellants are the junior party, the burden is upon them to prove priority of invention by a preponderance of evidence. *Allen v. Blaisdell et al.*, 39 CCPA (Patents) 951, 196 F.2d 527, 93 USPQ 428.

There are two counts in issue, which read as follows:

2. A soda soap base lubricating grease containing 0.05% to about 1% of a polyethylene glycol having an average molecular weight in excess of 200, said percentage range being taken on the weight of the grease.

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3. A lubricating grease composition comprising mineral lubricating oil thickened to a grease consistency by the sodium soap of substantially saturated higher fatty acids and containing about 0.05% to about 1% of polyethylene glycol having an average molecular weight between about 200 and about 7000.

As appears from the counts, the invention here involved relates to a soda base lubricating grease composition. The novel feature of the counts, according to the parties, is the use of 0.05% to 1% of a polyethylene glycol having a molecular weight in excess of 200 as an additive or modifier. Use of this additive in the stated proportions is said to increase the mechanical stability of the grease, thereby making it particularly suitable for use as a lubricant in anti-friction ball and roller bearings which must be lubricated over extended periods of time at high temperatures. According to Morway, use of this additive results in smooth, relatively non-fibrous greases particularly suitable for use as wheel bearing greases. Also, according to Bondi, this modifier inhibits bleeding of oil from the grease upon repeated heating and cooling of the same, this being a very desirable characteristic in such applications.

The Board awarded Bondi the date of June 14, 1945, for conception. It further held that Bondi is entitled to the date of October 31, 1945, which is the filing date of his copending application, Serial No. 625,966, as a constructive reduction to practice. These holdings are not questioned by appellants Morway et al.

In its decision, the Board also awarded Morway et al. the date of April 12, 1945, for conception. This award is not now questioned by Bondi. Counsel for Morway et al. appear to contend that the Board should have awarded to appellants the date of January 31, 1945, for conception. However, for reasons presently set forth, the award of that date clearly would not alter the outcome of the case, and we therefore think it unnecessary to discuss this contention in detail.

With the foregoing dates established, it is apparent that appellants, as junior party, must prove either (1) an actual reduction to practice prior to the earliest date to which appellee may be entitled for actual or constructive reduction, *Holslag* v. *Steinert*, 31 CCPA (Patents) 1116, 143 F.2d 661, 62 USPQ 77; or (2) the exercise of reasonable diligence from just prior to appellee's entry into the field on June 14, 1945, to a later actual or constructive reduction to practice. *Hull* v. *Davenport*, 24 CCPA (Patents) 1194, 90 F.2d 103, 33 USPQ 506.

The Board held that the record for Morway et al. did not establish an actual reduction to practice prior to their filing date of December 27, 1946, and that they were lacking in diligence in reducing to practice.

We note at this point that the company by which Morway et al. were employed already had on the market a wheel bearing grease known as Essoleum B, which was successfully usable in most applications such as passenger cars and ordinary truck duty. However, Essoleum B had sometimes given poor results in service in high speed, heavy duty trucks where high wheel bearing temperatures were encountered due to transmission of heat from the brake drums. It is clear from the record that the efforts of Morway et al. which resulted in the grease of the issue counts were directed primarily to developing a high performance wheel bearing grease usable under such high temperature, heavy service conditions.

[1] It is true, as argued by counsel for Morway et al., that the counts are not restricted to any particular type of lubricant or use, such as a high temperature wheel bearing lubricant. Nevertheless, it is proper to consider as a factor in this decision that Morway et al. were primarily seeking a high performance lubricant of this type in order to meet the shortcomings of their company's existing product. See *Chittick* v. *Lyons et al.*, 26 CCPA (Patents) 1382, 104 F.2d 818, 42 USPQ 132.

Morway et al. contend that they made two distinct actual reductions to practice prior to appellee's constructive reduction to practice on October 31, 1945.

Appellants contend that there was a first reduction to practice between January 31, 1945, and March 13, 1945. It is claimed that on January 30, 1945, Beerbower, one of the joint appellants herein, compounded a grease containing Carbowax 1500,[1] which grease is said to meet the issue counts. That grease was subjected to a standard Norma-Hoffman oxidation test, in which a sample of the grease is enclosed in a pressure bomb filled with oxygen gas to a pressure of 110 pounds per square inch. As the grease becomes oxidized, with the oxygen entering into chemical reaction with the grease, the pressure gradually drops. The time required for the pressure to drop 5 pounds, from 110 down to 105, is said to be a good indicator of the oxidation resistance of the grease. The slower the pressure drops, the more oxidation resistant is the grease product. It is claimed that the results of this test were good, and counsel for Morway et al. contends that there was an actual reduction to practice when this grease was successfully tested in the Norma-Hoffman oxidation test.

Counsel for Bondi argues, inter alia, that the events relied on to establish this first alleged reduction to practice are not properly corroborated as required by law. We shall assume, without deciding, that there is proper corroboration.

[2] Certain products or substances may be held fully reduced to practice when made, without the need of tests, because the utility in the pertinent art is well understood. *Larsom et al.* v. *Eicher*, 18 CCPA (Patents) 1497, 49 F.2d 1029, 9 USPQ 461. In many cases, however, mere compounding does not establish a reduction to practice, particularly when the inventor's aim is to produce a new product superior to a then-existing product. *Saklatwalla* v. *Marburg*, 30 CCPA (Patents) 791, 172 F.2d 227, 80 USPQ 439. Thus, in the latter case we held that the mere preparation and routine laboratory test-

[1] By stipulation, Carbowax is a polyethylene glycol of the type called for in the counts.



ing (for tensile strength, yield strength, and the like) of alloy steel heats having the composition defined by the counts did not establish an actual reduction to practice.

Similarly, the mere mixing of ingredients to form a lubricant composition meeting the counts can not, without more, be considered an actual reduction to practice of a lubricant intended to meet a certain problem. *Knutson et al.* v. *Gallsworthy et al.*, 82 App. D. C. 304, 164 F.2d 497. This rule is clearly implicit in our decision in *Chittick* v. *Lyons et al.*, supra.[2] In the present case, the problem is not in the production per se of the grease of the counts. Nor is it merely in the production of some or any lubricant, for it is obvious that any mixture consisting of a lubricant base plus an additive or modifier would be expected to have lubricating properties. The problem facing Morway et al. in the invention herein was to produce a grease, through the use of proper additives, which would be suitable for use as a high temperature, heavy duty wheel bearing grease. For these reasons, the mere production by Morway et al. on January 30, 1945, of a grease mixture meeting the counts does not establish an actual reduction to practice. It is necessary that there be something more, such as demonstration by tests that this grease mixture possessed the properties desired. *Knutson et al.* v. *Gallsworthy et al.*, supra.

An actual reduction to practice might have been established by showing commercial production.[3] Likewise, adequate field tests under proper conditions, showing suitability of the grease for the purpose intended, may be relied on. [3] Laboratory tests may also constitute a reduction to practice under some circumstances, but such tests must simulate actual service conditions with sufficient clearness to render it reasonably certain that the subject matter will perform its intended function in actual service. *Chittick* v. *Lyons et al.*, supra.[4]

In this case, Morway et al. rely on the above-mentioned Norma-Hoffman laboratory test as establishing a reduction to practice of the grease mixture allegedly made up on January 30, 1945.

Dr. George McNulty, an expert witness for the party Morway et al., testified on cross-examination as follows:

X Q. 109. Does either this [A. S. T. M.] penetration test which you have described, or the Norma-Hoffman bomb test, prove that a grease will not fail in actual use?
A. They are only indications. They are not "proof."
X Q. 110. Is there any completely satisfactory test that will prove that a grease will not fail when it is used?
A. No laboratory test is complete and satisfactory. They are only indications.
X Q. 111. In other words, if a laboratory test—either this Norma-Hoffman test, or the penetration test—is bad, you can be pretty sure that the grease will not be good; is that correct?
A. That is right.
X Q. 112. But even though the test is good, you cannot be certain that the grease will not fail, in some respect or other, when actually used?
A. You cannot be certain; but, by a combination of a number of tests, you have indications.

Dr. Hollis L. Leland, an expert witness for the party Morway, testified as follows on cross-examination:

X Q. 209. Isn't it a fact there is no fully satisfactory laboratory test to prove whether or not a grease will fail, under service conditions?
A. May I ask the question again?
X Q. 210. I will put it a little differently: To prove that a grease will not fail, under service conditions?
A. There is no satisfactory test to prove that it will not fail under any and all service conditions.
I state it that way because "service conditions" can vary widely, under abnormal conditions of operation: most unexpected results can occur, although it is, still, a service operation.
X Q. 211. This Norma-Hoffman bomb test merely shows the stability, or lack of stability, of a grease toward oxidation; is not that correct?
A. That is correct.
X Q. 212. It is no indication at all that it might not break down or fail, under various service conditions, is it?
A. From the standpoint of oxidation, in service—deterioration from oxidation, it is a very informative test.
X Q. 213. But only insofar as oxidation is concerned?
A. Yes, that is right: oxidation, and storage life in the can.

Mr. Alan Beerbower, one of the appellants herein, testified on cross-examination that the Norma-Hoffman bomb test *merely measures resistance of the grease to oxidation* under static or storage conditions, but not under service conditions: *and that he would not be able to predict service life from Norma-Hoffman bomb results.*

In view of the foregoing testimony by appellants' expert witnesses, we think it clear that a successful Norma-Hoffman laboratory test falls far short of simulating actual service tests with sufficient closeness to constitute a reduction to practice under the above-stated rule from *Chittick* v. *Lyons et al.*, supra.

Appellants contend further that there was a second actual reduction to practice of a successful wheel bearing grease on October 2, 1945. Miss Rosemary O'Halloran, a technical assistant to the joint inventors Morway et al., prepared a grease meeting at least count 2 on September 28, 1945. Miss O'Halloran tested this grease in the so-called Ford Wheel Bearing Test on October 2, 1945, and in her notebook she evaluated the test results as "very good." It is claimed that this latter laboratory test constitutes an actual reduction to practice.

A description of the Ford Wheel Bearing Test is contained in the following paragraph from appellants' Exhibit 30, which is a copy of a weekly progress memorandum:

A program has been initiated to develop a new wheel bearing grease with performance superior to that of Essoleum B, the Company's present premium product. Essoleum B qualifies as Army General Purpose Grease No. 2, under Specification 2–108A, but has proved to be somewhat unsatisfactory in the *recently developed* Wheel Bearing Test Machine. This service test, which consists of operating a Ford wheel bearing for six hours at 450 rpm. and 220° F., *may* be adopted by the trade as a measure of the quality of wheel bearing greases. [Italics supplied.]

The record with respect to the Ford Wheel Bearing Test is sparse. We find nothing therein which convinces us that this test so closely simulates actual service conditions that performance of the

[2] *Corona Co.* v. *Doran Corp.*, 276 U. S. 358, and *Kurtides* v. *Bruson*, 26 CCPA (Patents) 986, 102 F.2d 416, 41 USPQ 107, which appellants cite as authority to the contrary, are distinguishable for the reasons given by the court in *Knutson et al.* v. *Gallsworthy et al.*, at 164 F.2d, page 508.

[3] Commercial use or production is, of course, not essential to a reduction to practice. See *Harrison et al.* v. *Cadwell*, 17 CCPA (Patents) 1024, 39 F.2d 704, 5 USPQ 91.

[4] It is here noted that in the *Chittick* case we had before us the question of reduction to practice of a *lubricant* intended for use in high pressure applications.

grease in its intended function in actual service is reasonably predictable. This test was then only recently developed, and its use as a standard test was at that time only a future possibility. It is clear from the record that McNulty and Leland, who are employees of appellants' company, were obviously familiar with this test when they testified as expert witnesses for appellants in 1950. Yet, they testified then that there is no fully satisfactory laboratory test which will prove that a grease will not fail in actual use. (See the above-quoted excerpts from the testimony by these witnesses.)

[4] Furthermore, it seems to us that the fair inference from the circumstances disclosed by the record is that appellants (and their employer company) did not, at that time, attach such significance to this test as to indicate a reduction to practice. It appears from appellants' Exhibit 34, dated August 12, 1946, that field tests were to be run August 28, 1946, in Rochester "under supervision of Sales Engineering." It also appears from appellants' Exhibit 37, a weekly progress report dated November 21, 1946, that the grease was then being evaluated in field tests being conducted in the Rochester and Baltimore areas.

Moreover, we deem it significant that appellants delayed at least 14 months after the Ford Wheel Bearing Test in commercializing the product, although their field is a competitive one and the company employing them had a definite need for the grease of the issue counts; it is also similarly significant that the patent application was delayed for practically 14 months after the test. See *Chittick* v. *Lyons et al.*, supra. It seems to us that if appellants had *then* been satisfied as a result of Miss O'Halloran's test that the grease tested was a commercial or patentable improvement over existing products, these delays would not have occurred. See *Saklatwalla* v. *Marburg*, supra.

In view of the foregoing, we hold that appellant has not established by a preponderance of evidence that the wheel bearing test of October 2, 1945, constitutes an actual reduction to practice. Appellant relies considerably on statements by Leland and McNulty that the grease tested by Miss O'Halloran formed the basis, with slight modification, for moving into full scale manufacture of a commercial grease. The record fails to convince us that this was the result of Miss O'Halloran's test on October 2, 1945. Indeed, for reasons previously discussed, we think the fair inference from the evidence before us is that it was not.

Dr Leland briefly testified, among other things, that he put the grease prepared and tested by Miss O'Halloran in his own car, and that it was still there when he sold the car 50,000 miles later. Appellants seem to rely on this also as establishing a reduction to practice prior to October 31, 1945. With respect to this, the Board stated:

> • • • There appears to be no documentary evidence on this test showing time or detail. The 50,000 miles mentioned by Leland run on his own car, in the absence of evidence to the contrary, is presumed to have taken place over perhaps several years for obviously the services of the head of a research group were required in the laboratory and he would have neither the time nor likely the inclination to depreciate his personal car any faster than normally.
>
> Moreover there is nothing to show that there was anything about this test of the grease to demonstrate performance superior to Essoleum B under severe temperature conditions. Being passenger cars and laboratory test cars of unknown specification the test may have been merely to determine if ordinary temperature performance was satisfactory as compared to Essoleum B. This, as indicated in the foregoing, would not have been regarded by the company as sufficient in its opinion and in fact it wasn't regarded as sufficient because the company proceeded to plant scale preparation and fleet testing.

We concur with the Board's evaluation of this testimony. As we see it, the Board did not hold that the grease was not reduced to practice until it wore out, as counsel for appellants contends it did. Rather, we think the Board was of the opinion, for the reasons it set out in the first paragraph quoted, that this testimony did not establish an actual reduction to practice by a preponderance of the evidence. We agree in this with the Board. If appellants intended to rely on this occurrence as an actual reduction to practice, it was incumbent upon them to present testimony adequate to meet their well known burden of proof. Of course, it might well be, as the Board indicated in the second paragraph quoted, that even if adequately proven, this incident would not constitute a reduction to practice in the circumstances of this case.

Counsel for appellants seems to charge the Board with holding that experimentation subsequent to the above tests necessarily negatived a reduction to practice of the issue counts. After a study of the Board's opinion, we do not think the charge is justified. Appellants have failed to establish by a preponderance of the evidence a timely reduction to practice meeting the requirements of the law (e. g., fleet service tests under actual conditions for which the grease was intended, with results considered satisfactory at that time). [5] Had they done so, it is clear that subsequent experimentation for improvement purposes would not have negatived the reduction to practice and its legal effects.

Thus, appellants, although first to conceive, were last to reduce to practice. If they are to prevail, they must affirmatively establish continuing and reasonable diligence in reducing to practice or reasonable excuse for failure to act. Such diligence must be shown from a date immediately prior to the time that Bondi conceived, on June 14, 1945, until reduction to practice by themselves as first conceivers. *Scharmann* v. *Kassel*, 37 CCPA (Patents) 903, 179 F.2d 991, 84 USPQ 472; *Hull* v. *Davenport*, supra.

The Board held that "Morway et al. were not reasonably deligent for a substantial period of weeks before and after June 14, 1945."

The record shows the following activities by appellants:

On June 7, August 1, August 15, and September 28, 1945, greases meeting the counts were prepared, and laboratory tests, such as the A. S. T. M. penetration test, were conducted on them.

On October 2, 1945, Miss O'Halloran conducted the above-discussed Ford Wheel Bearing Test on the grease prepared September 28.

On December 26, 1945, a grease meeting the counts was prepared, and laboratory tests conducted on it.

The record then shows further activities (mainly aimed at possible commercial exploitation of the grease in issue) in February, May, August, and November of 1946.

There was no activity at all between June 7 and August 1, 1945, thereby creating a hiatus of one and one-half months right at the outset of the critical period when Bondi entered the field. There is a further hiatus of one and one-half months, during the early part of the critical period, from August 15 to September 28, 1945, when there was no activity at all by Morway et al. It seems manifest from the above chronology that the activities by Morway et al. from early June 1945 to December 1946 were quite sporadic throughout that period.

In our opinion, the foregoing activities by appellants do not constitute reasonable diligence in reducing the invention to practice during the critical period.

[6] Appellants have introduced testimony to the effect that the joint inventors herein and other assisting members of the research team which developed the grease of the issue counts had many other projects and duties. For example, there is testimony indicating that Mr. Morway's primary assignment at the time in question was the development of a carbon black lubricant; and that Mr. Beerbower's primary assignment was the development of a continuous process for manufacturing greases. When the party first to conceive voluntarily lays aside his inventive concept because he is engrossed in pursuit of other projects, this is generally not an acceptable excuse for failure to act diligently in reducing to practice. *Scharmann* v. *Kassel*, supra. Clearly there may be circumstances creating exceptions to this rule, but we find no such circumstances in this record.

[7] Morway et al. also seek to explain their lack of diligence by reference to wartime assignments which allegedly took first call on their time. In proper cases, war activities may reasonably excuse the first conceiver's failure to act diligently, but lack of diligence is not excused by a mere assertion that the applicant was engaged in war work. *Scharmann* v. *Kassel*, supra. We fail to find in the record before us adequate evidence of such war activities as would excuse appellants' lack of reasonable diligence.

We wish to note one further point. We desire to rebut any inference from our earlier discussion that the only actual reduction to practice by which appellants could have prevailed must necessarily have been of a grease superior to Essoleum B.

Appellants' new grease was submitted by their company to the Rock Island Arsenal for qualifications tests,[8] and it was approved as of December 18, 1946, as a General Purpose Grease No. 2 meeting U. S. A. specification 2–108. The Board held this was not a reduction to practice, stating:

> • • • The late date would not be particularly helpful to Morway et al. but in any event the approval is not of significance in establishing superiority to Essoleum B for the latter also qualified as an Army General Purpose Grease No. 2 and there is nothing to show that the approval was based on differing field tests.

[8] We think the Board erred in this latter holding. It seems to us that when appellants' company submitted this grease to the Ordnance Department of the Army for these qualifications tests it was implicitly offering to furnish the grease to that department if it desired to purchase the same. We think that in the circumstances of the case this constitutes an actual reduction to practice, notwithstanding that there is *no* evidence of record establishing that the grease tested by the arsenal was superior to Essoleum B. This error of the Board is non-prejudicial, however, since a reduction to practice as of December 18, 1946 (or even November 20, 1946), would not entitle Morway et al. to an award of priority.

[9] For the reasons hereinbefore set out, the decision of the Board awarding priority to Bondi as to counts 2 and 3 is hereby affirmed.

AFFIRMED.

[8] It appears from appellants' Exhibit 36 that this may have been done on November 20, 1946; the record is not clear on the point.





## U. S. Court of Customs and Patent Appeals

### IN RE HERCULES FASTENERS, INC.

*No. 5964. Decided April 15, 1953*

[203 F.2d 753; — USPQ —]

1. TRADE-MARKS—ACT OF 1946—SECTION 6 CONSTRUED.
   *Held* that the part of section 6 of the act of 1946 stating "The Commissioner shall require unregistrable matter to be disclaimed, • • •" is essentially declaratory of the disclaimer practice existing before the act under the sanction of *Beckwith* v. *Commissioner of Patents*, 252 U. S. 538, and, accordingly, decisions decided prior to the act and not inconsistent with the qualifications in the latter part of section 6 are still authoritative.
2. SAME—DISCLAIMER—PURPOSE STATED.
   Rule restated that the purpose of a disclaimer is to show that the applicant is not making claim to the exclusive appropriation of such matter except in the precise relation and association in which it appeared in the drawing and description.
3. SAME—REGISTRABILITY—UNREGISTRABLE PORTION OF MARK MUST BE DISCLAIMED.
   *Held* that, although appellant's mark as a whole is not "merely descriptive," as specified in section 2(e)(1) of the act of 1946, and hence is registrable, appellant is not entitled to register the same unless the descriptive and unregistrable subject matter contained therein is disclaimed.
4. SAME—DESCRIPTIVENESS—PROHIBITIONS IN ACTS OF 1905 AND 1946 ARE THE SAME.
   The prohibitions against descriptive marks under the act of 1946 are the same as under the 1905 act.

5. SAME—SAME—MARKS WHICH DESCRIBE USE OR FUNCTION ARE DESCRIPTIVE.

Trade-marks which are descriptive of the use or function of the goods may be descriptive within the meaning of section 2(e) of the act of 1946 and hence unregistrable, because they describe the character or quality of the goods.

6. SAME—REGISTRABILITY—"FASTIE."

*Held* that the notation "Fastie" is descriptive of the function and character of machines for sealing the ends of flexible tubes and the notation itself is, therefore unregistrable.

APPEAL from Patent Office. Serial No. 556,388.

AFFIRMED.

*John L. Seymour* (*N. Douglas Parker, Jr.* of counsel) for appellant.

*E. L. Reynolds* (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from a decision of the Commissioner of Patents, speaking through the Assistant Commissioner, 92 USPQ 287, affirming the conditional refusal of the Examiner of Trade-Marks to register the trade-mark sought by appellant.

Appellant seeks to have registered on the Principal Register, under the Trade-Mark Act of 1946, a composite mark "for Tube sealing machines, which apply barrel fasteners, sometimes called eyelet fasteners to seal the ends of flexible tubes," such as sausage casings. The mark sought consists of the notation "FASTIE," which appears, in the application drawing, in black letters superimposed upon a fanciful black and white background comprising the ends of three tubular elements, apparently sausages, each having a fastener attached to its end. Although it seems that the notation might be pronounced "fas-tee," counsel for appellant stated during oral argument that the pronunciation used by the applicant is "fas-tie."

The Examiner regarded the notation "FASTIE" as the phonetic equivalent of "fast-tie," and he was of the opinion that this notation was descriptive of the function of the machine and therefore unregistrable. He held further, however, that the design portion of the composite mark was distinctive and hence the mark as a whole was registrable, provided appellant disclaimed the descriptive portion "FASTIE." With respect to the question of disclaimer the Examiner stated:

> • • • it is considered that the proposed mark is registrable, provided the descriptive word "FASTIE" is disclaimed under the provisions of section 6 of the Trade-Mark Act of 1946. At an interview on April 23, 1951, applicant's attorney voiced the opinion that, giving proper weight to the word "merely" in section 2(e)(1), a mark, a substantial portion of which is descriptive but which also includes a substantial portion which is fanciful, should be registrable without a disclaimer of the descriptive portion, section 6 notwithstanding. It is the Examiner's opinion that section 6 cannot be disregarded, and that, in accordance with its provisions, disclaimer of the descriptive portion, or any portion which is not registrable per se under section 2(e), must be required as a condition precedent to registration. The language of the statute leaves no choice but states "The Commissioner shall require unregistrable matter to be disclaimed." • • •

In the absence of such a disclaimer by appellant, the Examiner continued to refuse registration and an appeal was taken to the Commissioner.

The Commissioner affirmed the Examiner's holding that the notation "Fastie" was descriptive, stating:

> • • • In its advertising applicant refers to the "tie" which the fastener makes when applied by the machine, the verb "tie" in its transitive form being defined under the second definition in Webster's New International Dictionary, Second Edition, as "to unite or join firmly; to connect." The notation "FASTIE" obviously connotes that which ties or fastens quickly, and it is entirely clear from the applicant's advertising that such is the intended meaning of the notation since it is stated that applicant's machine does casing-end ties two to three times faster than human hands. Thus the applicant refers to the operation of its machine in terms of the broad definition of the word "tie."

The Commissioner also affirmed the Examiner's ruling that the descriptive and hence unregistrable portion of the mark, the notation "FASTIE," must be disclaimed in accordance with section 6 of the 1946 act, as a condition precedent to registration.

Appellant contends that the notation "FASTIE" is not descriptive within the prohibition of section 2(e) (1). He contends also that even if the notation "FASTIE" were descriptive and unregistrable per se, he need not disclaim it because the composite mark sought is not "merely descriptive" of the goods to which it is applied, and therefore the Patent Office erroneously and arbitrarily refused registration.

We think appellant's latter contention is clearly in error.

Section 2 of the Trade-Mark Act of 1946, 15 U. S. C. § 1052, provides that:

> No trade-mark by which the goods of the applicant may be distinguished from the goods of others shall be refused registration on the principal register on account of its nature unless it—
>
> • • • • • • •
>
> (e) Consists of a mark which, (1) when applied to the goods of the applicant is merely descriptive or deceptively misdescriptive of them • • •.

Clearly the Examiner and the Commissioner have recognized that the composite mark as a whole is not "merely descriptive" and hence is registrable under section 2(e)(1). However, (assuming now that the notation "FASTIE" was properly held descriptive) it does not necessarily follow from this, as appellant appears to contend, that those tribunals were erroneous and arbitrary in refusing to register the composite mark in the absence of disclaimer of "FASTIE."

Section 6 of that act, 15 U. S. C. § 1056, provides:

> The Commissioner shall require unregistrable matter to be disclaimed, but such disclaimer shall not prejudice or affect the applicant's or owner's rights then existing or thereafter arising in the disclaimed matter, nor shall such disclaimer prejudice or affect the applicant's or owner's rights of registration on another application of later date if the disclaimed matter has become distinctive of the applicant's or owner's goods or services.

Prior to the act of 1946 there was no statutory provision authorizing or requiring the disclaimer of unregistrable subject matter which was part of a composite mark containing other registrable matter in combination therewith. Such a composite mark, for example, might contain registrable subject matter in combination with matter which is merely descriptive, or geographically descriptive, and therefore unregistrable. The practice grew up in the Patent Office of allowing such unregistrable matter to be disclaimed, so that the mark as a whole might be registered. This practice was sanctioned by the Supreme Court in *Beckwith* v. *Commr. of Patents*, 252 U. S. 538, and this court, following the rule of the *Beckwith* case, also upheld the Patent Office's disclaimer practice. *In re American Cyanamid & Chemical Corp.*, 26 CCPA (Patents) 712, 99 F.2d 964, 39 USPQ 445; *In re Effervescent Products, Inc.*, 30 CCPA (Patents) 762, 132 F.2d 142, 56 USPQ 163.



Under the disclaimer practice prior to the 1946 act, however, if an applicant disclaimed certain subject matter as unregistrable he and his successors in interest were held estopped from later securing registration of such matter, even though the disclaimed portions subsequently became distinctive and protectable in the Federal courts as valid, common-law trade-marks. See *In re Canada Dry Ginger Ale, Inc.*, 24 CCPA (Patents) 872, 87 F.2d 736, 32 USPQ 255, and *In re Canada Dry Ginger Ale, Inc.*, 24 CCPA (Patents) 879, 87 F.2d 737, 32 USPQ 256.

[1] A study of the legislative history of the 1946 act convinces us that the part of section 6 stating "The Commissioner shall require unregistrable matter to be disclaimed, • • •" is essentially declaratory of the disclaimer practice as then existing under the sanction of the *Beckwith* decision. However, the then existing practice has been modified by the latter part of the section, not here involved, which provides that a disclaimer will not prejudice or affect the applicant's rights then existing or thereafter arising in the disclaimed matter. See Hearings, Committee on Patents, House of Representatives, H. R. 9041, 75th Congress, 3rd Session, pages 137 to 141; and Hearings, Committee on Patents, House of Representatives, H. R. 4744, 76th Congress, 1st Session, pages 61 to 64. See also *In re Servel, Inc.*, 37 CCPA (Patents) 977, 181 F.2d 192, 85 USPQ 257. Since section 6 is essentially declaratory of the disclaimer practice existing prior to the 1946 act, we think decisions decided prior to the act and not inconsistent with the qualifications in the latter part of section 6 are still authoritative.

[2] The purpose of a disclaimer is to show that the applicant is not making claim to the exclusive appropriation of such matter except in the precise relation and association in which it appeared in the drawing and description. *Beckwith* v. *Commissioner*, supra.

[3] Although appellant's mark as a whole is not "merely descriptive," and hence is registrable, appellant is not entitled to register the same unless descriptive and unregistrable subject matter contained therein is disclaimed. Moreover, the Commissioner of Patents has the right to enforce his requirement for disclaimer by a refusal to register the mark in the event that the requirement is not met. *In re American Cyanamid, etc.*, supra. We think this is clearly in accord with the mandate of section 6 of the 1946 act.

In view of the foregoing, it follows that if the notation "FASTIE," which appellant has declined to disclaim, is descriptive of its goods within the prohibition of section 2(e) (1), the Commissioner did not err in conditionally refusing registration. *Cyanamid* case, supra. We turn therefore to consideration of appellant's contention that the mark is not objectionably descriptive.

Appellant contends before this court that "FASTIE" is not objectionably descriptive because it is only by proceeding through a series of thoughts and words that one can deduce any relationship or descriptiveness between the notation "FASTIE" and the machine or the fasteners to which it is applied, or to the function of the machine. In effect, appellant argues that "FASTIE" is merely suggestive and not descriptive.

[4] The language of section 2(e) of the 1946 act differs slightly from that of the corresponding part of section 5 of the Trade-Mark Act of 1905. This court has decided, however, that although there are slight changes, the prohibitions against descriptive marks under the new act are the same as under the 1905 act. *Andrew J. McPartland, Inc.*, v. *Montgomery Ward & Co., Inc.*, 35 CCPA (Patents) 802, 164 F.2d 603, 76 USPQ 97, wherein the differences between the acts, and the effect thereof, were discussed at length.

Marks which are merely descriptive of the goods upon which they are used, or the quality or character of the goods falls within the prohibitions of section 2(e) of the new act, *McPartland* v. *Montgomery Ward*, supra. Of course marks that are merely suggestive are registrable. *In re St. Paul Hydraulic Hoist Co., etc.*, 37 CCPA (Patents) 751, 177 F.2d 214, 83 USPQ 315.

[5] Trade-marks which are descriptive of the use or function of the goods may be descriptive within the meaning of section 2(e), and hence unregistrable, because they describe the character or quality of the goods. *Hygienic Products Co.* v. *Huntington Laboratories, Inc.*, 31 CCPA (Patents) 773, 139 F.2d 508, 60 USPQ 205.

[6] We are of the opinion that "FASTIE" is merely a phonetic spelling of "fast tie" and that it connotes that which unites or joins quickly, "tie" being used according to its broad meaning. Thus, for the reasons advanced in the above-quoted excerpt from the Commissioner's opinion, we think the notation is descriptive of the function and character of the goods to which it is applied. That notation itself is therefore unregistrable.

Prior decisions are generally of relatively little value in deciding trade-mark cases such as this. *In re Locke Stove Company*, 33 CCPA (Patents) 934, 154 F.2d 200, 69 USPQ 108. However, we think our holdings in the *Locke Stove* case and *McPartland* v. *Montgomery Ward*, supra, particularly apposite and persuasive. In the former case, we held the mark "Warm-Ever" applied to water heaters was merely descriptive of the character of the goods and unregistrable. In the latter case, we held the mark "Kwixtart" for use on electric stor-

age batteries is merely the phonetic spelling of "quick start" and not entitled to registration because it was descriptive of the character of the goods on which it was used.

In view of the foregoing, the decision of the Commissioner refusing registration of appellant's mark in the absence of disclaimer is affirmed.

AFFIRMED.

# PATENT SUITS

**Notices under 35 U. S. C. 290; Patent Act of 1952**

2,082,482. B. J. Cohen, Shoe protector, D. C. Mass. (Boston), Doc. 52/1370, *Howard Paper Co., Inc.* v. *Brockton Mfg. Co., Inc.* Consent decree May 25, 1953.

2,104,949, 2,199,227, A. M. Marks, Crystalline formation; 2,237,567, 2,328,219, E. H. Land, Light-polarizer and process of manufacture; 2,454,515, same, Light polarizing sheet of isolecularly oriented transparent linear high polymer dyed with dichroic substance and process of manufacture; Re. 23,297, Hyman & West, Sheetlike light-polarizing complex of iodine and a polyvinyl compound, etc., filed Feb. 10, 1953, D. C. Mass. (Boston), Doc. 53/168-W, *Ulrin M. Marks et al.* v. *Polaroid Corp.*

2,199,227. (See 2,104,949.) 2,237,567. (See 2,104,949.)

2,239,831, M. J. Sadvary, Safety latch for gas valves, D. C., S. D. Ind. (Indianapolis), Doc. 2865, *M. J. Sadvary* v. *Chambers Corp.* Consent decree holding patent valid and not infringed; plaintiff's complaint dismissed, and plaintiff enjoined and restrained from bringing any action whatsoever against defendant for infringement June 8, 1953.

2,264,486, Smith & Norman, Cake cutter and server, D. C., N. D. Ill. (Chicago), Doc. 52c2378, *Krag Steel Products, Inc.* v. *Drake Products, Inc., et al.* Consent decree holding patent valid and infringed by Drake Products, Inc., injunction granted; complaint dismissed as to Marshall Field & Co. Apr. 17, 1953—consent decree, cause dismissed with prejudice as to R. B. Smith and John H. Norman May 28, 1953.

2,328,219. (See 2,104,949.)

2,373,691, L. H. Kessler, Stone crushing apparatus; 2,486,421, same, Double impeller impact breaker, appeal filed Feb. 4, 1953, C. C. A., 8th Cir. (St. Louis), Doc. 14779, *Iowa Mfg. Co. of Cedar Rapids, Iowa* v. *Pettibone-Mulliken Corp. et al.*

2,450,631, E. Buchler, Garment, D. C., S. D. N. Y., Doc. 49/612, *Arkay Infants Wear, Inc.* v. *Miller Art Mfg. Co.* Order dismissing cause for lack of prosecution (notice June 9, 1953).

2,454,515. (See 2,104,949.)

2,461,416, Erdle & Schnar, Pattern material, pattern, and method, filed June 4, 1953, D. C., N. D. Ill. (Chicago), Doc. 53c1316, *Austenal Laboratories, Inc.* v. *Nobilium Processing Co. of Chicago, Ill.*

2,486,421. (See 2,373,691.)

2,514,685, P. M. Virtue, Chair back, D. C., S. D. Calif. (Los Angeles), Doc. 12212-PH, *Certified Chrome Furniture Co. et al.* v. *Virtue Bros. Mfg. Co.* Complaint and cross-complaint dismissed without prejudice (notice June 2, 1953).

2,568,227, M. W. Federbush, Loose-leaf binder, filed June 5, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13564, *M. W. Federbush et al.* v. *Apex Screw Machine Products Co., Inc.*

2,574,168, B. R. Brick, Method of coating porous masonry to render it water repellant, D. C., E. D. Mo. (St. Louis), Doc. 8593 (2), *Wurdack Chemical Co.* v. *Ranetitr Mfg. Co. et al.* Judgment sustaining defendant's motion for summary judgment, decreeing patent invalid; complaint dismissed May 29, 1953.

2,620,938, C. J. Jesnig, Container closure, filed (notice received) June 10, 1953, D. C. N. J. (Camden), Doc. 492/53, *Package Devices, Inc.* v. *Wheaton Glass Co.*

2,622,367, H. L. Tom, Toy helicopter, D. C., S. D. Calif. (Los Angeles), Doc. 15272-C, *Tom & Co. et al.* v. *Mirra-Cote Co., Inc., et al.* Stipulation and order dismissing action with prejudice (notice June 5, 1953).

2,628,184, R. R. Widmann, Composition of matter to decrease the circulation of blood and lymph in vascular and allergic disorders, filed May 8, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15490-HW, *R. R. Widmann* v. *Signet Laboratories.*

2,630,295, M. B. Lucker, Automobile jack, filed June 8, 1953, D. C., E. D. N. Y. (Brooklyn), Doc. 13569, *Auto Specialties Mfg. Co. et al.* v. *S. S. Kolodin et al.*

Re. 23,297. (See 2,104,940.)

Des. 162,159, S. Harfenist, Racoon cap with racoon tail, D. C., S. D. N. Y., Doc. 73/288, *Artic Fur Cap Corp.* v. *H. Freiman et al.* Order dismissing cause for lack of prosecution (notice June 9, 1953).

Des. 162,887, H. Sado, Electric broiler, filed June 9, 1953, D. C., S. D. N. Y., Doc. 85/316, *Marlun Mfg. Co., Inc.* v. *Edwards Merchandising Corp.*

Des. 163,037, W. H. Hardy, Handbag, D. C., S. D. N. Y., Doc. 83/222, *Enjay Plastics Corp. et al.* v. *Handbag Specialties, Inc., et al.* Stipulation and order of dismissal (notice June 9, 1953).

# TRADE-MARK SUITS

**Notices under 15 U. S. C. 1116; Trade-Mark Act of July 5, 1946**

T. M. 398,047, I. Sternberg, White shoe polish, filed June 4, 1953, D. C., W. D. Pa. (Pittsburgh), Doc. 11,497, *Hollywood Shoe Polish, Inc.* v. *James Austin Co.*

T. M. 536,826, Louis Milani Foods, Inc., Seasoning for use on meats, D. C., S. D. N. Y., Doc. 72/185, *Louis Milani Foods, Inc.* v. *Epicure Specialties.* Consent judgment holding infringement, injunction June 5, 1953.

T. M. 543,465, Emco Cement Products, Inc., Molds for making artificial building stone; T. M. 547,663, same, Combination of material used in making artificial stones, filed June 2, 1953, D. C., S. D. Calif. (Los Angeles), Doc. 15579-BH, *Emco Cement Products, Inc.* v. *James Construction Co., Inc.*

T. M. 547,663. (See T. M. 543,465.)

T. M. 549,908, Admiral Corp., Radio receiving sets and parts thereof, etc., filed June 8, 1953, D. C., S. D. N. Y., Doc. 85/314, *Admiral Corp.* v. *Sewing Machine Sales Corp. et al.*

T. M. 563,084, Model Etts Corp., Medicinal tablets, filed June 5, 1953, D. C., S. D. N. Y., Doc. 85/300, *Model-Etts Corp.* v. *Sharp & Dohme.*

# NOTICES

## Erratum

All references to Patent No. 2,648,712 to Abraham Schneider, assignor to Sun Oil Company, for Separation of Isomeric Aromatic Compounds, appearing in the OFFICIAL GAZETTE of August 11, 1953, should be deleted as the application was withdrawn from issue and the patent was not issued.

## Adjudicated Patents

(D. C. N. J.) Lyons Patent No. 2,174,989, for a hatchway, *Held* invalid. *Lyons* v. *Construction Specialties, Inc., et al.*, 112 F. Supp. 317; — USPQ —

(D. C. Ind.) Rhodebamel Patent No. 2,515,898, for procaine penicillin and therapeutic compositions, *Held* valid and infringed. *Eli Lilly & Co.* v. *Schenley Laboratories, Inc.*, 112 F. Supp. 295; — USPQ —

## Interference Notice

[No. 4946]

*Paulette Laboratories, Inc., its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of The Armand Company, 124 Des Moines St., Des Moines, Iowa, for registration of a trademark, and Registration No. 306,899 issued October 3, 1933, to Paulette Laboratories, Inc., 791 Gravesend Avenue, Brooklyn, New York, and the notice of such declaration sent by registered mail to the said Paulette Laboratories, Inc. at the said address of record having been returned by the post office as undeliverable, notice is hereby given that unless said Paulette Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein, within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—August 11.)

THOMAS F. MURPHY,
*Assistant Commissioner of Patents.*

July 16, 1953.

## Disclaimers

2,473,927.—*Alfred B. Whitr*, Murrysville, Pa. APPARATUS FOR AND METHOD OF PERCUSSIVE WELDING. Patent dated June 21, 1949. Disclaimer filed July 29, 1953, by the assignee, *Westinghouse Electric Corporation.*

Hereby enters this disclaimer to claim 2 of said patent.

2,523,244.—*John D. Woodward*, Sewell, N. J. NAVIGATION SYATEM WITH COUNTER CIRCUITS FOR PULSE TIMING AND DELAY. Patent dated Sept. 19, 1950. Disclaimer filed July 20, 1953, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1, 2, 5, 6, and 7 of said patent.

## Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,468,166, G. G. Bruck, Mixing apparatus, decided May 14, 1953, claims 1, 4, 7, 8, 11, and 13.

Pat. 2,473,927, A. B. White, Apparatus for and method of percussive welding, decided May 22, 1953, claim 2.

Pat. 2,540,065, M. I. Williamson, Carrier for bottles, cans or similar articles, decided July 21, 1953, claims 1 and 2.

Pat. 2,547,159, P. Guenard, Device for stabilizing the frequency of an ultra-short wave transmitter, decided Aug. 4, 1953, claims 1 and 2.

Pat. 2,564,341, I. A. Paige, Outlet box connector, decided July 31, 1953, claims 1, 2, 3, and 4.

Pat. 2,613,317, R. F. Mozley, Circuits for object locator apparatus, decided July 30, 1953, claims 4 and 7.

# REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I. Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,538,789. Window With Removable Pane. Patented July 3, 1951. A standard double hung sash made of metal or wood has one or more slidable glass panes which make the exterior of the window cleanable from inside a building. A frame binds the edges of a slidable pane and a slot is provided in a side member of the sash through which the frame and pane may be moved to provide an opening through which a cleaner's hand may be inserted to reach the outside of the window. The sides and bottom of a panel of the sash in which the movable frame fits have specially designed spring members which hold the pane in position and provide a waterproof joint between the pane and panel. One or more concealed handles are provided in the frame for gripping the frame when moving the pane. The slidable panes may also be used as ventilators. (Owner) Isaac D. Sillman, 521 Isham St., New York 34, N. Y. Groups 24—31; 33—83. Reg. No. 51,459.

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Pat. 2,638,510. Duplex Loud-Speaker. Patented May 12, 1953. Loud-speaker with sectional reflex horn is converted into a wide-range duplex loud-speaker by replacing one of the sections of the reflex horn with a large bell-like diaphragm of a direct radiator loud-speaker separately operated. Such a combination in one loud-speaker achieves a wide sound range covering the high, medium and low frequencies and makes the speaker appropriate for high fidelity music. The diaphragm serves the multiple function of a reflector and as a reflex wall for the horn and as a direct radiator loud speaker, and serves as the external mouth section and continuation of the horn for the sound chamber reproducer. (Owner) Sgt. Caesar D. Zeitouni, % Howard M. Kilpatrick, 11 Park Place, New York 7, N. Y. Group 36—62. Reg. No. 51,460.

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Pat. 2,630,978. Automatic Fishing Reel. Patented Mar. 10, 1953. A fishing reel having a motor spring may be used for spin casting or as a conventional automatic reel. In an aperture in the wall of a housing mounted on a fish pole, a spring-actuated, manually slidable line guide is maintained in position either for casting or for retrieving. A motor spring, operatively connected by a set of meshing gears to a spool with a brake drum thereon, may be wound to tension by a manually operated handle. The brake drum is governed by pivotal movement of a brake lever. When the reel is used for spin casting, the slidable line guide should be in casting position, and the motor spring wound, either before or after the cast. When the cast has been made, the line guide is moved to retrieving position, and the only procedure necessary to retrieve the bait and line is to press the brake lever toward the fishing rod handle. For conventional automatic use, the line guide is placed in retrieving position and a desired amount of line unwound to cause the motor spring to be wound from the inner end, so that the tension is sufficient to maintain the rotatable spool checked while the unwound line is cast. The same procedure as before is used for retrieving. (Owner) Walter A. Skarbek, 2215 So. Emerson St., Denver 10, Colo. Group 39—49. Reg. No. 51,461.

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Pat. 2,626,504. Hydraulic Mechanism for Imparting a Rotary Motion to a Member. Patented Jan. 27, 1953. Hydraulic hoist includes a pair of spaced hydraulic cylinders each containing a piston connected to one end of a piston rod. The opposite ends of the piston rods are operatively connected by pivoted links to cranks at opposite ends of the axle of the drum of a winch to impart rotation to the drum when the pistons are reciprocated. Apparatus for controlling the admission and exhaustion of hydraulic fluid alternately into and from opposite ends of the cylinders includes superimposed longitudinally extending passageways along each cylinder with rotary valves at opposite ends of the passageways and plungers communicating with the passageways for pumping hydraulic fluid into the cylinders. The outer ends of the plungers carry rollers resiliently urged into engagement with cams on a drive shaft. The drive shaft may be driven by any suitable source of power to cause the cams to reciprocate the plungers and force fluid into the cylinders to reciprocate the pistons and thereby rotate the drum of the winch. (Owner) John Frisone, % Victor J. Evans & Co., 1503 21st St., N. W., Washington 6, D. C. Group 35—31. Reg. No. 51,462.

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Pat. 2,627,653. Valve Spring Compressor. Patented Feb 10, 1953. Hand-operated tool for compressing valve springs of conventional valve-in-head engines includes means for releasably and lockingly retaining the forward end of the hand lever of the tool on a cylinder block stud in response to downward pivotal movement of the lever. The retaining means consists of a vertically extending tubular member pivotally connected by a link to the forward end of the lever. The lower end of the tubular member has a longitudinal elongated slot and a pair of ears carrying an eccentrically pivoted cam roller. In use, the tool is assembled on a cylinder head with the lower end of the tubular member telescoped over a cylinder block stud. Downward pressure is then exerted on the handle of the lever to raise the tubular member and cause the cam roller to extend through the slot and frictionally grip the stud to lockingly retain the tubular member on the stud. When pressure is released on the handle, the cam moves into inoperative position and releases the tubular member from the stud. (Owners) William L. Wisner and Robert H. MacCready, Route 8, Box 873, Charleston, S. C. Groups 33—52; 38—31. Reg. No. 51,463.

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Pat. 2,629,960. Fishing Lure. Patented Mar. 3, 1953. Fish lure has an elongated transparent hollow body carrying fishhooks with spaced openings in the front and rear ends of the body. A pin projects through each end and a bearing is connected to each pin. An elongated twisted rotatable member extends longitudinally within the body. Trunnions at opposite ends of the member are journaled in the bearings. An eyelet is connected to the front pin to receive a fishing line. As a fisherman pulls the lure through the water, water flows through the hollow body and causes the twisted member to rotate and attract fish. (Owner) Albert W. Baxter, 6219 Banner Ave., Hollywood 38, Calif. Group 39—49. Reg. No. 51,464.

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Pat. 2,508,191. Automatic Belt Making Machine. Patented May 16, 1950. This link belt making machine is especially designed for plastic and fabric-coated belting fabrication in link form in different lengths and widths. This machine performs the task automatically in forming a belt from a plurality of interengaged links in a manner so that the belt need only be completed by the addition of a buckle upon being discharged from the machine. Included on the machine is a counting mechanism which is preset before starting the machine in order to control the number of links which will be fabricated to form any one belt. After the desired number of links have been formed, the belt is automatically released. The machine then continues forming the belts and releasing them until the desired quantity has been made. This machine is completely automatic in its operation so that it requires no attention from the operator with the exception of periodic replacement of the supply of material from which the links are punched, and the replenishment of the supply of preformed tongues in the magazine. (Owner) Joseph Raggi, % L. S. Saulsbury, 55 West 42d St., New York 36, N. Y. Group 35—69. Reg. No. 51,465.





Pat. 2,229,850. Water Cooler. Patented Jan. 28, 1941. Water cooler for a refrigerator door permits cool, filtered water to be drawn off from the cooler from outside the refrigerator without opening the door. Two filled water receptacles, containing filters surrounding valves in the necks of the receptacles, are removably supported in inverted position in cavities on the inner side of a refrigerator door. As the receptacles are placed in the cavities with the necks inserted in neck-receiving depressions in the bottom of the cavities, the valves are automatically opened. A valved piping arrangement communicating with the bottom of the depressions extends outwardly through the door and is connected to a pivoted faucet at the outer side of the door. Check valves in the bottom of the receptacles are adapted to open when water is drawn off to admit air into the receptacles. (Owners) James W. Hoskins, 1654 S. Maple Blvd., Spokane, Wash., and Truan T. Lester, Lincoln, Mont. Group 35—84. Reg. No. 51,466.

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## Dedicated Patents

In accordance with a Consent Decree in Civil Action No. 5152 in the U. S. District Court for the District of New Jersey, Westinghouse Electric Corporation, having a principal place of business at East Pittsburgh, Pennsylvania, has, by an instrument recorded in the U. S. Patent Office, dedicated 240 patents under "Exhibit A" of the decree to the public for free use, effective retroactively as of June 1, 1953.

The dedicated patents, except the first 9 which have expired, have been listed for publication under Schedules I and II. The patents under Schedule I are listed below, and those under Schedule II will be listed in the OFFICIAL GAZETTE of September 1, 1953.

Groups 32—95; 33—66; 35—11—41—43—61—62—66—69—81; 36—11—13—19—21—41—51—61—62—92; 37—11—21.

SCHEDULE I

Pat. 2,055,991. Voltage Control of Dry Rectifiers. Patented Sept. 29, 1936.

Pat. 2,061,301. Circuit Interrupter. Patented Nov. 17, 1936.

Re. 20,962. Circuit Interrupter. Reissued Jan. 3, 1939. (Original Patent 2,061,945, dated Nov. 24, 1936.)

Pat. 2,066,938. Uniform Speed System. Patented Jan. 5, 1937.

Pat. 2,067,648. Circuit Breaker. Patented Jan. 12, 1937.

Pat. 2,067,673. Circuit Interrupter. Patented Jan. 12, 1937.

Pat. 2,068,402. Motor Operated Mechanism for Circuit Breakers. Patented Jan. 19, 1937.

Pat. 2,068,422. Device for Effectively Quenching the Arc. Patented Jan. 19, 1937.

Pat. 2,071,805. Reversible Conversion System. Patented Feb. 23, 1937.

Pat. 2,078,642. Electric Discharge Device Heater. Patented Apr. 27, 1937.

Pat. 2,078,691. Protective System. Patented Apr. 27, 1937.

Pat. 2,080,612. Circuit Breaker. Patented May 18, 1937.

Pat. 2,081,993. Small Synchronous Motor. Patented June 1, 1937.

Pat. 2,092,095. Control of Electric Circuitr by Means of Electron Tubes. Patented Sept. 7, 1937.

Pat. 2,094,379. Control for Electric Vacuum Discharge Apparatus. Patented Sept. 28, 1937.

Pat. 2,095,729. Circuit Interrupter. Patented Oct. 12, 1937.

Pat. 2,095,772. Discharge Device Control. Patented Oct. 12, 1937.

Pat. 2,103,774. Regulating System. Patented Dec. 28, 1937.

Pat. 2,103,786. Electrical Conversion System. Patented Dec. 28, 1937.

Pat. 2,103,794. Circuit Breaker. Patented Dec. 28, 1937.

Pat. 2,103,950. Converting System for Reversible Alternating Current-Direct Current Conversion. Patented Dec. 28, 1937.

Pat. 2,106,826. Electric Circuit Conversion System. Patented Feb. 1, 1938.

Pat. 2,106,832. Centrifuge. Patented Feb. 1, 1938.

Pat. 2,108,560. Circuit Breaker. Patented Feb. 15, 1938.

Pat. 2,112,046. Control System for Electric Locomotives. Patented Mar. 22, 1938.

Pat. 2,112,083. Electric Current Converting System. Patented Mar. 22, 1938.

Pat. 2,114,835. Electric Control for Workpiece Shaping Tools. Patented Apr. 19, 1938.

Pat. 2,117,900. Regenerative Braking System. Patented May 17, 1938.

Pat. 2,121,589. Emissive Incandescent Cathode. Patented June 21, 1938.

Pat. 2,121,598. Metal Case Rectifier. Patented June 21, 1938.

Pat. 2,121,603. Method of Producing Selenium Rectifiers. Patented June 21, 1938.

Pat. 2,128,044. Dynamo Electric Machine. Patented Aug. 23, 1938.

Pat. 2,130,866. Electrical Interlock for Drive Shafts. Patented Sept. 20, 1938.

Pat. 2,130,896. Protective System. Patented Sept. 20, 1938.

Pat. 2,130,903. Apparatus for Preventing Resonance. Patented Sept. 20, 1938.

Pat. 2,134,593. Circuit Breaker. Patented Oct. 25, 1938.

Pat. 2,137,046. Rectifier System. Patented Nov. 15, 1938.

Pat. 2,137,052. Arrangement for Converting Alternating Currents. Patented Nov. 15, 1938.

Pat. 2,140,356. Submersible Pump Set Seal. Patented Dec. 13, 1938.

Pat. 2,144,475. Circuit Breaker. Patented Jan. 17, 1939.

Pat. 2,147,461. Arc Welding Machine. Patented Feb. 14, 1939.

Pat. 2,150,307. Circuit Interrupter. Patented Mar. 14, 1939.

Pat. 2,151,743. Automatic Cutting Machine. Patented Mar. 28, 1939.

Pat. 2,151,753. Circuit Arrangement for Protecting Electric Discharge Apparatus Systems. Patented Mar. 28, 1939.

Pat. 2,154,260. Electronic Metering System. Patented Apr. 11, 1939.

Pat. 2,154,274. Metal Vapor Rectifier. Patented Apr. 11, 1939.

Pat. 2,154,279. Braking System for Diesel-Electric Driven Vehicles. Patented Apr. 11, 1939.

Pat. 2,154,287. Electrical Control System. Patented Apr. 11, 1939.

Pat. 2,155,090. Regulator System for Parallel Operation of Commutator Rectifiers. Patented Apr. 18, 1939.

Pat. 2,157,922. Transformer. Patented May 9, 1939.

Pat. 2,162,487. Selenium Rectifier. Patented June 13, 1939.

Pat. 2,162,493. Conversion System. Patented June 13, 1939.

Pat. 2,162,509. Electric Motor Drive. Patented June 13, 1939.

Pat. 2,162,533. Translating Device. Patented June 13, 1939.

Pat. 2,162,534. Circuit Breaker. Patented June 13, 1939.

Pat. 2,162,539. Method and Means for Testing Electric Machines. Patented June 13, 1939.

Pat. 2,165,041. Control System for Converters. Patented July 4, 1939.

Pat. 2,165,055. Dry Rectifier Plant. Patented July 4, 1939.

Pat. 2,172,197. Polyphase Transformer Connection. Patented Sept. 5, 1939.

Pat. 2,172,204. Electrical Braking System. Patented Sept. 5, 1939.

Pat. 2,173,489. High Temperature Turbine. Patented Sept. 19, 1939.

Pat. 2,175,824. Method of Making Electric Heating Units. Patented Oct. 10, 1939.

Pat. 2,175,841. Welding Machine. Patented Oct. 10, 1939.

Pat. 2,175,860. Conveyor Roll Drive. Patented Oct. 10, 1939.

Pat. 2,175,920. Electric Seam Welding. Patented Oct. 10, 1939.

Pat. 2,175,921. Welding System. Patented Oct. 10, 1939.

Pat. 2,179,283. Regulating System for Generator Driving Engines. Patented Nov. 7, 1939.

Pat. 2,179,337. Rectifier System. Patented Nov. 7, 1939.

Pat. 2,179,353. Voltage Stabilizing Network. Patented Nov. 7, 1939.

Pat. 2,179,358. Alternating Current Commutator Motor. Patented Nov. 7, 1939.

Pat. 2,181,321. Power Regulation. Patented Nov. 28, 1939.

Pat. 2,182,628. Conversion System. Patented Dec. 5, 1939.

Pat. 2,182,640. Electric Locomotive Structure. Patented Dec. 5, 1939.

Pat. 2,183,079. Ventilating Fan. Patented Dec. 12, 1939.

Pat. 2,184,764. Ship Propulsion System. Patented Dec. 26, 1939.

Pat. 2,185,280. Method of Producing an Inorganic Insulating Material. Patented Jan. 2, 1940.

Pat. 2,186,207. Regulating Transformer. Patented Jan. 9, 1940.

Pat. 2,186,211. Regulating Transformer. Patented Jan. 9, 1940.

Pat. 2,186,218. Welding Apparatus. Patented Jan. 9, 1940.

Pat. 2,186,244. Vapor Electric Device. Patented Jan. 9, 1940.

Pat. 2,187,418. Temperature Regulator. Patented Jan. 16, 1940.

Pat. 2,187,426. Mixing Bowl Fastener. Patented Jan. 16, 1940.

Pat. 2,189,353. Power-Transmission System for Electrically Driven Trains. Patented Feb. 6, 1940.

Pat. 2,189,615. Roller Bearing Arrangement. Patented Feb. 6, 1940.

Pat. 2,189,617. Method and Device for Cooling Metallic Dry Rectifier Elements. Patented Feb. 6, 1940.

Pat. 2,192,059. Circuit Breaker. Patented Feb. 27, 1940.

Pat. 2,193,598. Method of Producing Selenium Rectifiers. Patented Mar. 12, 1940.

Pat. 2,196,409. Electric Energy Collecting Contact. Patented Apr. 9, 1940.

Pat. 2,196,411. Differential Protective Relaying System. Patented Apr. 9, 1940.

Pat. 2,198,491. Circuit Breaker. Patented Apr. 23, 1940.

Pat. 2,205,208. Rectifier System. Patented June 18, 1940.

Pat. 2,205,214. Motor Control System. Patented June 18, 1940.

Pat. 2,205,221. Electric Discharge Device Control System. Patented June 18, 1940.

Pat. 2,205,231. Electric Discharge Device for High Operating Voltages. Patented June 18, 1940.

Pat. 2,208,342. Method for Producing High Temperature Heating Resistors. Patented July 16, 1940.

Pat. 2,208,415. Induction Meter. Patented July 16, 1940.

Pat. 2,208,416. Excitation of Synchronous Generators. Patented July 16, 1940.

Pat. 2,210,675. Multipower Driving Vehicle. Patented Aug. 6, 1940.

Pat. 2,210,688. Regulation of Synchronous Machines. Patented Aug. 6, 1940.

Pat. 2,210,694. Braking System for Electric Trains. Patented Aug. 6, 1940.

Pat. 2,214,610. Control Scheme for Frequency Changers. Patented Sept. 10, 1940.

Pat. 2,217,268. Governing Apparatus. Patented Oct. 8, 1940.

Pat. 2,217,435. Direct-Current Measuring Device. Patented Oct. 8, 1940.

Pat. 2,217,457. Generator Voltage Regulator. Patented Oct. 8, 1940.

Pat. 2,217,460. Variable Pole-Number Three-Phase Motor Winding. Patented Oct. 8, 1940.

Pat. 2,217,462. Circuit Breaker. Patented Oct. 8, 1940.

Pat. 2,217,487. Mechanical Contactor. Patented Oct. 8, 1940.

Pat. 2,221,573. Impulse Generator. Patented Nov. 12, 1940.

Pat. 2,221,574. Machining Tool. Patented Nov. 12, 1940.

Pat. 2,221,614. Method of Manufacturing Selenium Rectifiers. Patented Nov. 12, 1940.

Pat. 2,223,729. Circuit Interrupter. Patented Dec. 3, 1940.

Pat. 2,224,664. Blade Ring Fastening. Patented Dec. 10, 1940.

Pat. 2,224,733. Control Apparatus for Spot or Seam Welding by Means of Controllable Discharge Vessels. Patented Dec. 10, 1940.

Pat. 2,224,755. Electrical Transformation Apparatus. Patented Dec. 10, 1940.

Pat. 2,225,763. Circuit Breaker Control. Patented Dec. 24, 1940.

Pat. 2,228,077. Alternating-Current Commutator Motor. Patented Jan. 7, 1941.

Pat. 2,228,101. Realstor. Patented Jan. 7, 1941.

Pat. 2,229,460. Converter System. Patented Jan. 21, 1941.

# TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 25, 1953

[VOL. 673. NO. 4]

## ACT OF 1946

**The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.**

**As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.**

### CLASS 1

### RAW OR PARTLY PREPARED MATERIALS

Ser. No. 634,489. Raymond Elmer Ramont, doing business under the firm name of Floral Art Studios, Yucaipa, Calif. Filed Aug. 26, 1952.

**ANGEL FEATHERS**

For Plant Leaves From Which the Pulp Has Been Removed To Expose the Nervation Structure of the Leaves, Which Structure Is Dyed and Dried, and Used for Decorative Purposes.
Claims use since Nov. 15, 1950.

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Ser. No. 642,207. Eagle-Ottawa Leather Company, Grand Haven, Mich. Filed Feb. 13, 1953. (Sec. 2f.)

**ESSEX**

Applicant claims ownership of Registration No. 436,596.
For Leather.
Claims use since 1940.

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Ser. No. 642,289. Paul T. Leonard, doing business as Leonard's Hatchery & Breeding Farm, Osage, Iowa. Filed Feb. 16, 1953.

**Lenco**

For Live Poultry—Namely, Baby Chicks.
Claims use since Mar. 5, 1951.

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Ser. No. 642,371. Fred Rueping Leather Company, Fond du Lac, Wis. Filed Feb. 17, 1953.

**NAKOMA**

For Leather.
Claims use since Jan. 5, 1953.

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Ser. No. 642,375. Selberling Rubber Company, Barberton, Ohio. Filed Feb. 17, 1953.

**SEILON**

For Rigid Polyvinyl Chloride Sheets.
Claims use since Sept. 29, 1952.

Ser. No. 642,777. Seaboard Seed Company, Philadelphia, Pa. Filed Feb. 25, 1953.

**HOME & COUNTRY**

Applicant claims ownership of Registration No. 561,980.
For Grass Seed.
Claims use since Feb. 4, 1953.

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Ser. No. 643,039. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Mar. 3, 1953.

**L O F FIBER-GLASS**

No claim is made to the words "Fiber-Glass" apart from the mark as shown in the drawing. Applicant claims ownership of Registrations Nos. 118,792, 285,973, and others.
For Mats, Bats, and Sheets of Fibrous Glass.
Claims use since Feb. 16, 1953.

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Ser. No. 643,089. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Mar. 4, 1953. (Sec. 2f.)

**DU PONT**

Applicant claims ownership of Registrations Nos. 153,155 and 371,580.
For Amorphous Silica.
Claims use since June 21, 1946.

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### CLASS 2

### RECEPTACLES

Ser. No. 635,538. Kalasteel Products Company, Inc., Kalamazoo, Mich. Filed Sept. 20, 1952.

**TOY -A- WAY**

Applicant disclaims the word "Toy" apart from the mark as shown.
For Wheeled Container for Receiving Child's Toys for Transport or Storage.
Claims use since Aug. 4, 1952.

## CLASS 3

### BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 637,208. Hilbert W. Peterson, doing business under the name and style of Fit-O-Be Company, Omaha, Nebr. Filed Oct. 27, 1952.




No claim is made to the word "Tie" and the pictorial representation of a tie apart from the mark as shown.

For Portfolios in Which Neckties Can Be Carried Without Creasing.

Claims use since Oct. 8, 1952.

## CLASS 4

### ABRASIVES AND POLISHING MATERIALS

Ser. No. 629,927. American Wheelabrator & Equipment Corporation, Mishawaka, Ind. Filed May 20, 1952.



Applicant claims ownership of Registration No. 293,398.

For Metallic Abrasive Particles Used in the Blasting of Surfaces for Cleaning.

Claims use since Apr. 24, 1952.

Ser. No. 633,542. The Kiwi Polish Company Proprietary Limited, Richmond, near Melbourne, Australia. Filed Aug. 6, 1952.

KIWI WETPRUF

No claim is made to the exclusive use of the word "Wetpruf" apart from the mark shown in the drawing. Applicant claims ownership of Australian Registration No. 104,036, dated Sept. 25, 1950.

For Polishing Preparations for Boots, Shoes, and Leather Goods.

## CLASS 5

### ADHESIVES

Ser. No. 624,098. Midcontinent Adhesive Company, Grove City, Ohio. Filed Jan. 25, 1952.

**Roltite**

For Solvent Type Cement Made From Synthetic Rubber for Bonding Decorative Plastic Laminates Such as Formica, Etc. to Wood, Metal, or Other Surfaces.

Claims use since Nov. 1, 1949.

Ser. No. 639,561. Gilman Paper Company, Gilman, Vt., and New York, N. Y. Filed Dec. 16, 1952.

RESILASTIC

For Gummed Tape.

Claims use since Apr. 15, 1952.

Ser. No. 641,147. Milligan Bros. System, Jefferson, Iowa. Filed Jan. 22, 1953.

*Weatherizer*

For Chemical Preparation Having Adhesive Properties Intended for Use With Insecticides and Fungicides To Enable the Latter To Adhere to Plants Through All Types of Weather.

Claims use since Mar. 15, 1952.

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 604,327. Rezolin, Inc., Los Angeles, Calif. Filed Oct. 2, 1950.

8000

For Liquid Phenolic Casting Resin.

Claims use since July 26, 1950.

Ser. No. 613,414. Marbon Corporation, Gary, Ind. Filed May 2, 1951.

MARBON "8000"

For Styrene Butadiene Copolymer Resins Sold in Dry Form for Use as a Molding Powder and for Dry Compounding With Natural and Synthetic Elastomers, Plasticizers, Other Resins, Dyes, and Pigments.

Claims use since Dec. 29, 1948.

Ser. No. 629,738. Koppers Company, Inc., Pittsburgh, Pa. Filed May 15, 1952.



For Insecticides.

Claims use since Apr. 29, 1952.

Ser. No. 632,991. Koppers Company, Inc., Pittsburgh, Pa. Filed July 24, 1952.

EVENGLO

For Polystyrene.

Claims use since July 3, 1952.

Ser. No. 634,251. The Gerson-Stewart Corporation Company, Cleveland, Ohio. Filed Aug. 21, 1952.

DIXI PINO

The word "Pino" is disclaimed apart from the mark shown in the drawing.

For Disinfectant.

Claims use since January 1918.



Ser. No. 634,395. Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung"), Ludwigshafen (Rhine), Germany. Filed Aug. 25, 1952.

Albigen

For Polymeric Vinyl Compounds.

Claims use since on or about Dec. 13, 1949.

Ser. No. 638,797. The Hargrove Company, Minneapolis, Minn. Filed Dec. 1, 1952.




The word "Ice" is disclaimed apart from the mark as shown.

For Liquid Chemical for Melting Ice.

Claims use since Nov. 21, 1952.

Ser. No. 639,458. Swan-Finch Oil Corporation, New York, N. Y. Filed Nov. 19, 1952.




The term "Established 1853" is disclaimed except in association with the mark as shown. The drawing is lined for red. Applicant claims ownership of Registration No. 234,048.

For Anti-Freeze Compounds, Rust Preventives, and Textile Processing Oils.

Claims use since Aug. 1, 1949.

Ser. No. 642,372. Jules Saman, doing business under the name and Style of Car-Freshener Co., Watertown, N. Y. Filed Feb. 17, 1953.




Applicant claims no registration rights for the word "Sweet" apart from the mark as shown.

For Absorbent Body Impregnated With a Perfumed Air Deodorant.

Claims use since Feb. 6, 1953.

Ser. No. 644,448. S. B. Penick & Company, New York, N. Y. Filed Mar. 30, 1953.

RYANICIDE

For Ryania Powder for Use in the Agricultural Field for the Control of Economically Important Crop and Field Pests.

Claims use since Feb. 3, 1949.

Ser. No. 645,140. Geigy Company, Inc., New York, N. Y. Filed Apr. 13, 1953.

GYCOFIX

Applicant claims ownership of Registrations Nos. 149,067, 342,763, and others.

For Chemical Preparation Used in the After Treatment of Dyed Fabrics as a Fixative for Dyestuffs.

Claims use since Feb. 2, 1953.

Ser. No. 645,193. Scientific Oil Compounding Company, Inc., Chicago, Ill. Filed Apr. 13, 1953.

CUNIPHEN

For Fungicidal Material.

Claims use since Mar. 16, 1953.

Ser. No. 645,272. The United States Movidyn Corporation, Chicago, Ill. Filed Apr. 14, 1953.

ALGAEDYN

For Activated Colloidal Silver Compound for the Control and Destruction of Algae, Scum, and Slime in Swimming Pools, Aquaria, Ponds, and Cooling Systems.

Claims use since Jan. 30, 1953.

Ser. No. 645,298. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Apr. 15, 1953.




Applicant claims ownership of Registrations Nos. 569,957, 569,958, and 569,959.

For Acetyl Peroxide, Ammonium Persulfate, Barium Nitrate, Benzene Hexachloride Technical Polysulphide Compound, Bromine-Liquid, Calcium Peroxide, Carbon Bisulphide, Carbon Tetrachloride, Caustic Soda, Chloral, Chlorine-Liquid, Dipotassium Phosphate, Ethylene Dibromide, Fire Extinguisher Fluid (Carbon Tetrachloride Base), Grain Fumigant No. 3 (80% Carbon Tetrachloride, 20% Carbon Bisulfide), Hydrogen Bromide, Hydrogen Peroxide 35%, Magnesia, Magnesium Peroxide, Methyl Bromide, Monopotassium Phosphate, Peracetic Acid, Phosphoric Acid (75 and 85%), Potassium Persulfate, Sodium Carbonate Peroxide, Sodium Perborate, Sodium Phosphate Mixture, Sodium Pyrophosphate Peroxide, Tetrapotassium Pyrophosphate, Thiophosphoryl Chloride, Tripotassium Phosphate, Urea Peroxide, Zinc Peroxide.

Claims use since Aug. 14, 1951.

Ser. No. 645,336. Pittsburgh Coke & Chemical Company, Pittsburgh and Neville Island, Pittsburgh, Pa. Filed Apr 15, 1953.

Applicant claims ownership of Registrations Nos. 538,653, 542,977, and 551,556.

For Insecticides, Fungicides, Germicides, Herbicides, Rodenticides, and Disinfectants, Primarily Used for Agricultural Purposes.

Claims use since Mar. 18, 1946.

## CLASS 10

### FERTILIZERS

Ser. No. 633,613. Finger Lakes Peat Moss Company, Waterloo, N. Y. Filed Aug. 8, 1952.

BEAVER BRAND
PEAT HUMUS

The words "Brand" and "Peat Humus" as shown in the drawing are disclaimed apart from the mark. The lining in the drawing does not denote any particular color or shading.

For Peat Moss for Use as a Fertilizer and Soil Conditioner.

Claims use since Apr. 21, 1952.

Ser. No. 641,744. Rumianca, S. P. A., Turin, Italy. Filed Feb. 4, 1953.

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Applicant claims ownership of Italian Registration No. 93,502, dated Dec. 28, 1949.

For Soil Conditioner.

Claims use since Apr. 20, 1949.

## CLASS 12

### CONSTRUCTION MATERIALS

Ser. No. 624,797. Rinshed-Mason Company, Detroit, Mich. Filed Feb. 11, 1952.

GREEN STUFF

The word "Green" is disclaimed apart from the mark as shown.

For Lacquer Base Putty.

Claims use since Dec. 1, 1949.

Ser. No. 628,311. Universal Form Clamp Co., Chicago, Ill. Filed Apr. 18, 1952.



For Concrete Construction Forms and Parts for the Forms.

Claims use since May 1951.

Ser. No. 628,658. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed Apr. 24, 1952.

MAN-TEN

Applicant claims ownership of Registration No. 327,139.

For Constructional Steel Sections, Bars, and Plates.

Claims use since Mar. 13, 1934.

Ser. No. 639,676. Union Bag & Paper Corporation, New York, N. Y. Filed Dec. 17, 1952.

SCUTAN

Applicant claims ownership of Registrations Nos. 241,415, 363,838, and 364,325.

For Waterproof Paper for Sheathing, Lining, Insulating, and General Building Purposes.

Claims use since Mar. 14, 1927.

Ser. No. 640,132. Self Storing Window Company, Inc., Minneapolis, Minn. Filed Dec. 29, 1952.

DeVAC

For Porch Enclosure Assemblies Comprised of Window Frames Having Screens Across the Front Thereof and Tracks Built Therein With a Plurality of Sashes Slidable Relative to Each Other and to the Tracks, and Mounted Within the Tracks, the Sashes Each Carrying a Glass Panel Therein, and for Combination Windows.

Claims use since Sept. 1, 1952.

Ser. No. 643,013. Wisconsin Door Company, Livonia, Mich. Filed Mar. 2, 1953.

BIRCHINA

For Plywood and Door Panels.

Claims use since Feb. 2, 1953.



## CLASS 13

### HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 620,839. The Denison Engineering Company, Columbus, Ohio. Filed Nov. 3, 1951. (Sec. 2f.)

"VARICONTROL"

For Valves Used in Hydraulic Control Systems—Namely, Automatically Operating Hydrostatic Distributing Valves.

Claims use since Nov. 5, 1945.

Ser. No. 626,423. Sanitary Seat Manufacturing Corporation, Venice, Calif. Filed Mar. 13, 1952.

San-O-Lite

No claim is made to the term "Lite" apart from the mark shown in the drawing.

For Toilet Seats and Covers.

Claims use since Mar. 1, 1949.

Ser. No. 628,105. Mal M. Goodman, doing business as Malco Company, Los Angeles, Calif. Filed Apr. 15, 1952.

MALCO PAN

Applicant disclaims the exclusive right to the use of the word "Pan" apart from the mark as shown.

For Pans for Cooking and Preparing Food.

Claims use since Mar. 6, 1952.

Ser. No. 633,737. Saladmaster Sales, Inc., Dallas, Tex. Filed Aug. 11, 1952.

Saladmaster

For Metal Cookware—Namely, Metal Pots, Pans, Roasters, Trays, Inserts, and Covers.

Claims use since on or about Jan. 15, 1950.

Ser. No. 633,738. Saladmaster Sales, Inc., Dallas, Tex. Filed Aug. 11, 1952.

Saladmaster

For Metal Cookware—Namely, Metal Pots, Pans, Roasters, Trays, Inserts, and Covers.

Claims use since on or about Jan. 15, 1950.

Ser. No. 635,990. Advance Aluminum Castings Corp., Chicago, Ill. Filed Oct. 1, 1952.

MIRACLE

Applicant claims ownership of Registration No. 334,570.

For Cooking Utensils of Aluminum Alloy—to wit, Fry Pans and Covers Therefor, Sauce Pans and Covers Therefor, Beverage Urns, Coffee Pots, Water Kettles, Preserving Kettles, Triplicate Sets of Sauce Pans and Lids Therefor, Casseroles, Griddles, and Broilers, Double Fry Pans, Dutch Ovens, French Roasters, Utility Roasters, and Turkey Roasters.

Claims use since Sept. 6, 1935.

Ser. No. 637,913. Chicago Specialty Manufacturing Co., Chicago, Ill. Filed Nov. 12, 1952.

PRO-PEL

For Water Closet Tank Ball Valve and Valve Seating Guide.

Claims use since June 2, 1952.

Ser. No. 640,296. The Modern Hanger Corporation, Cleveland, Ohio. Filed Jan. 2, 1953.

Chan-All

For Pipe Hanger Assemblies, Fittings, Concrete Inserts, Pipe Hanging Bases and Housings, Clips, Clamps, Rings, Anchoring and Fastening Devices, and Metal Forms for Mounting and Supporting Pipes.

Claims use since Apr. 2, 1952.

## CLASS 14

### METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 624,714. Victor Equipment Company, San Francisco, Calif. Filed Feb. 8, 1952.

VICTORTUBE

No claim is made to the exclusive appropriation of the word "Tube" apart from the trade-mark shown in the drawing. Applicant claims ownership of Registrations Nos. 553,486, 554,647, and 554,658.

For Coated and Uncoated Welding Rods.

Claims use since Jan. 3, 1950.

Ser. No. 643,261. American Brake Shoe Company, New York, N. Y. Filed Mar. 9, 1953.



Applicant claims ownership of Registrations Nos. 404,891 and 404,892.

For Forgings—Namely, Upset and Drop Forgings.

Claims use since Jan. 19, 1953.

## CLASS 15

### OILS AND GREASES

Ser. No. 626,759. Swan-Finch Oil Corporation, New York, N. Y. Filed Mar. 20, 1952.

SAFCO

Applicant claims ownership of Registrations Nos. 307,001, 363,784, and 425,344.

For Lubricating Oils, Lubricating Greases, Cutting and Drawing Lubricants (Oil), Cutting and Drawing Lubri-

canta (Paste), Quenching Oils, Emulsifiable Oils for Lubrication in Machine Shop Operation, Soluble Oils for Lubrication in Machine Shop Operation, Tempering Oils, Marine Engine Oils and Lard Oil for Lubricating Purposes.
Claims use since Dec. 29, 1936.

Ser. No. 643,437. Societe Commerciale des Produits du Petrole, Paris, Seine, France. Filed Mar. 10, 1953.

DIESELUX

Applicant claims ownership of French Registration No. 431,943, dated June 17, 1948.
For Lubricating Oil.

## CLASS 17

### TOBACCO PRODUCTS

Ser. No. 625,856. Larus & Brother Company, Richmond, Va. Filed Mar. 3, 1952.

Crest

For Tobacco and Tobacco Products—Namely, Cigarettes, Smoking Tobacco, Chewing Tobacco, Cigars, and Snuff.
Claims use since Feb. 15, 1952, in the form shown; and since July 1, 1926, as to the mark in different form.

## CLASS 18

### MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 608,765. The Pharma-Craft Corporation, New York, N. Y. Filed Jan. 13, 1951.

oteen

For Medicinal Mouth Wash.
Claims use since Jan. 21, 1949.

Ser. No. 632,140. Allied Laboratories, Inc., Kansas City, Mo. Filed July 5, 1952.

EPITONE

For Veterinary Preparation To Be Administered Internally for the Prevention and Treatment of Certain Canine and Feline Eczemas When Due to Dietary Deficiency of Essential Fatty Acids.
Claims use since Sept. 1, 1948.

Ser. No. 632,451. E. R. Squibb & Sons, New York, N. Y., assignor to Mathieson Chemical Corporation, Saltville, Va., a corporation of Virginia. Filed July 11, 1952.

CRYSTIFOR

Applicant claims ownership of Registration No. 414,204.
For Penicillin-Containing Antibacterial Preparations.
Claims use since June 20, 1952.

Ser. No. 632,921. Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed July 23, 1952.

LUTOVOCYCLIN

Applicant claims ownership of Swiss Registration No. 138,004, dated Apr. 24, 1951.
For Hormone Preparation.

Ser. No. 637,064. Eli Lilly and Company, Indianapolis, Ind. Filed Oct. 23, 1952.

VI-MIX DROPS

No property right is claimed in the words "Mix" and "Drops" and applicant disclaims any right to said portion of the trade-mark, apart from the mark as shown.
For Medicinal Preparation of Multiple Vitamins Used as a Food Supplement for Infants and Children.
Claims use since Feb. 4, 1952.

Ser. No. 640,685. Mathieson Chemical Corporation, New York, N. Y. Filed Jan. 13, 1953.

TARQUINOR

For Dermatological Preparation.
Claims use since Sept. 19, 1952.

Ser. No. 642,548. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Feb. 20, 1953.

Proxcin

For Antihistamine-Analgesic Preparation in Tablet Form Providing the Principal Supplementary Anti-Pyretic, Anti-Soporific, and Metabolic Stimulating Factors for Use in the Treatment of Nasal Symptoms of Cold, Hay Fever, Simple Headaches, and Menstrual Pains.
Claims use since Jan. 23, 1953.

Ser. No. 643,390. White Laboratories, Inc., Kenilworth, N. J. Filed Mar. 9, 1953.

OTOBIOTIC

For Ear Drops.
Claims use since Feb. 26, 1953.

Ser. No. 643,536. Commercial Solvents Corporation, New York, N. Y. Filed Mar. 12, 1953.

BACIPHARYN

For Antibiotic Anesthetic Troches.
Claims use since Feb. 18, 1953.

Ser. No. 643,668. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed Mar. 16, 1953.

EK

Applicant claims ownership of Registrations Nos. 68,515, 376,876, and others.
For Vitamin Coopounds and Vitamin Preparations.
Claims use since May 2, 1941.



Ser. No. 643,948. Jacob Finkelstein, trading as Norris Laboratories, Norristown, Pa. Filed Mar. 20, 1953.

COATONE

For Animal Feed Supplement.
Claims use since on or about May 19, 1952.

Ser. No. 643,974. The E. L. Patch Company, Stoneham, Mass. Filed Mar. 20, 1953.

ELPAGEN

For Analgesic Tablet.
Claims use since Jan. 26, 1953.

Ser. No. 644,875. Eugene F. Shofner, doing business as Mentoil Co., Fayetteville, Tenn. Filed Apr. 7, 1953.

MENTOIL

For Remedy for Head Colds and Minor Skin Affections.
Claims use since on or about September 1926.

Ser. No. 645,117. Dalin Pharmaceuticals, Inc., Long Island City, N. Y. Filed Apr. 13, 1953.

LIQUIVITE

For Aqueous Multivitamin Drops.
Claims use since Mar. 23, 1953.

## CLASS 19

### VEHICLES

Ser. No. 634,475. Lockheed Aircraft Corporation, Burbank, Calif. Filed Aug. 26, 1952.

STARFIRE

For Airplanes and Structural Parts Therefor.
Claims use since Oct. 7, 1949.

## CLASS 20

### LINOLEUM AND OILED CLOTH

Ser. No. 640,430. Bonafide Mills, Inc., Winthrop, Maine, and New York, N. Y. Filed Jan. 7, 1953.

JIFFY - BACK

The word "Back" is disclaimed.
For Felt Base, Linoleum, Composition, and Plastic Floor Coverings and Rugs, Not Woven.
Claims use since Dec. 15, 1952.

## CLASS 21

### ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 577,954. Essex Wire Corporation, Detroit, Mich. Filed Apr. 29, 1949.

VULCAN

For Electrical Building Wires.
Claims use since on or about Jan. 1, 1892.

Ser. No. 603,929. Interlock Corporation, New York, N. Y. Filed Sept. 23, 1950.

INTERLOCK SYSTEM MODREY PATENTS

The representation of the goods and the legends "Interlock System" and "Modrey Patents" are disclaimed for registration purposes.
For Connectors for Electrical Conductors and Other Current Carrying Elements and Parts of the Aforesaid Articles.
Claims use since Aug. 24, 1950.

Ser. No. 621,627. Laboratory Furniture Co., Inc., Mineola, N. Y. Filed Nov. 24, 1951.

LABMASTER

For Electrical Receptacles and Switch Mountings in Pedestal Bases and in Electrical Service Lines, the Foregoing Being Designed Particularly To Meet the Needs of Laboratories and the Like.
Claims use since July 6, 1950.

Ser. No. 622,362. Societe Alsacienne de Constructions Mecaniques, Societe Anonyme, Mulhouse, Haut-Rhin, France. Filed Dec. 11, 1951.

SAM

Applicant claims ownership of French Registration No. 2259, dated May 21, 1951.
For Electric Wires and Cables; Electronic Relays; Audio and Carrier Transmitters, Repeaters and Receivers, and Parts Thereof; Servomechanisms for Position Control of Tools and Machines, and for Speed Control of Motors; Radio, Television, and Ultrasonic Receivers and Transmitters, and Parts Thereof; Low Frequency, High Frequency, and Very High Frequency Receivers, Transmitters and Parts Thereof.

Ser. No. 629,345. The George W. Borg Corporation, Delavan, Wis. Filed May 8, 1952.

MICRODIAL

For Dials for Rotor Parts of Electrical Apparatus.
Claims use since on or about June 2, 1950.

Ser. No. 630,715. Mechanical Products, Inc., Jackson, Mich. Filed June 4, 1952.

## MINI-BREAKER

The word "Breaker" is disclaimed apart from the mark as shown.

For Manually Resettable, Electric Circuit Interrupter Having an Automatic Thermal Release Activated by the Circuit Current.

Claims use since on or about May 27, 1952.

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Ser. No. 631,992. Lapp Insulator Company, Inc., Leroy, N. Y. Filed June 30, 1952. (Sec. 2f.)

## Lapp

For Electric Insulators and Electric Condensers.

Claims use since in the year 1927.

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Ser. No. 632,334. Thomas & Skinner Steel Products Company, Indianapolis, Ind. Filed July 9, 1952.



For Laminations for Electro-Magnetic Apparatus, Permanent Magnets, Permanent Magnet Assemblies, Lamination Assemblies, Electrical Magnets, and Wound Cores.

Claims use since on or about May 1, 1947.

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Ser. No. 632,656. Bulova Watch Company, Inc., New York, N. Y. Filed July 17, 1952.

## REVEILLE

For Electrically Sensitive Speaker Apparatus for Attachment to Clock Radios.

Claims use since May 27, 1952.

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Ser. No. 632,864. The Audak Company, Inc., New York, N. Y. Filed July 22, 1952.

## AUDAX

For Electronic Sound Recording, Amplifying, Playing and Play-Back Apparatus, Loud Speakers, Phonograph Turn Tables, and Electronic Pickups.

Claims use since during 1930.

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Ser. No. 633,489. Claremont Laboratories, Inc., Maspeth, N. Y. Filed Aug. 5, 1952.

## CLAREMONT

For Television Cathode Ray Tubes.

Claims use since Feb. 1, 1951.

Ser. No. 638,612. Societe Francaise Radio-Electrique, Paris, France. Filed Nov. 25, 1952.

## MINIATRON

Priority under Sec. 44(d). French application filed May 26, 1952, Reg. No. 420,342, dated May 26, 1952.

For Electron Tubes.

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Ser. No. 640,948. Micro Balancing, Incorporated, Garden City Park, N. Y. Filed Jan. 19, 1953.

## LUMATROL

For Light-Sensitive Electro-Mechanical Switch Used for Automatically Turning On and Off an Electric Circuit or Current, as for Automatically Lighting and Extinguishing Street Lights.

Claims use since Sept. 1, 1952.

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Ser. No. 641,374. Eutectic Welding Alloys Corporation, New York, N. Y. Filed Jan. 27, 1953.

## DYNATRODE

For Electrical Cutting, Gouging, Heating, and Blasting Tool in the Nature of a Covered Di-Polar Electrode.

Claims use since Jan. 14, 1953.

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Ser. No. 641,421. Amplifier Corporation of America, New York, N. Y. Filed Jan. 28, 1953.

## Magneloop

For Magnetic Sound Recording and Playback Apparatus and Parts Thereof.

Claims use since Jan. 8, 1953.

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Ser. No. 641,637. Portable Electric Tools, Inc., Chicago, Ill. Filed Feb. 2, 1953.

## Spraymaster

For Electrically-Operated Portable Spraying Apparatus for Paint and Similar Liquid Substances.

Claims use since Jan. 15, 1948.

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Ser. No. 641,981. Sierra Electric and Manufacturing Company, Los Angeles, Calif. Filed Feb. 9, 1953.

Sierra
JUMBO PLATES

The word "Plates" is disclaimed apart from the mark, as shown. Applicant claims ownership of Registrations Nos. 514,811 and 514,812.

For Wall Plates for Electrical Switches.

Claims use since Oct. 1, 1952.

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Ser. No. 644,047. Micamold Radio Corporation, Brooklyn, N. Y. Filed Mar. 23, 1953.

## MICROLYTIC

For Electrical Capacitors.

Claims use since December 1952.



Ser. No. 644,243. Minnesota Mining and Manufacturing Company, St. Paul, Minn. Filed Mar. 26, 1953.




For Magnetic Tape for the Reproduction of Sounds and Impulses.

Claims use since Mar. 5, 1953.

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## CLASS 22

### GAMES, TOYS, AND SPORTING GOODS

Ser. No. 638,664. Harry S. Rosenbloom, Chicago, Ill. Filed Nov. 26, 1952.

## tetratoy

For Three-Dimensional Construction Toy.

Claims use since Mar. 10, 1952.

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Ser. No. 640,850. Edmund C. Crisfield, Gorham, N. Y. Filed Jan. 16, 1953.

## aluma

For Fish Landing Net.

Claims use since June 4, 1951.

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Ser. No. 644,081. Walrus Products, New York, N. Y. Filed Mar. 23, 1953.



"WALRUS"

For Fishing Tackle—Namely, Fly Hooks, Streamer Fly Hooks, Swivels, Fishing Hooks, and Artificial Fishing Lures.

Claims use since on or about Feb. 1, 1953.

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Ser. No. 644,382. Joyce D. Ashley, Macksville, Kans. Filed Mar. 30, 1953.

## CATFISH COCKTAIL

The word "Catfish" is disclaimed apart from the mark shown.

For Canned Fish Bait.

Claims use since on or about Feb. 10, 1953.

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## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 582,434. Inflico Incorporated, Tucson, Ariz. Filed July 23, 1949. (Sec. 2f.)

## DAYTONA BEACH PROCESS PLANT

Applicant claims the words "Process Plant" as a part of the mark as shown, but not otherwise.

For Machinery and Equipment for the Removal of Suspended, Colloidal, and Dissolved Substances From Contaminated Liquids by Introducing the Contaminated Liquid Into a Suspension of Adsorbent Material and Agitating the Mixture in a Circulatory Manner so as To Keep the Liquid and Adsorbent Material in Admixture and Suspension.

Claims use since June 29, 1949.

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Ser. No. 591,300. Emil Leichter, New York, N. Y. Filed Jan. 23, 1950. (Sec. 2f.)

## HYDEPARK

Applicant claims ownership of Registration No. 408,220.

For Watchmakers' and Watch Repairmen's Tools and Supplies—Namely, Lathes and Tweezers.

Claims use since January 1943.

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Ser. No. 612,231. Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed Apr. 5, 1951. (Sec. 2f.)

## SUPERIOR

For Machinery—Namely, Gyratory Crushers and Jaw Crushers, for Comminuting Solid Minerals.

Claims use since 1919.

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Ser. No. 614,001. Maurey Manufacturing Corporation, Chicago, Ill. Filed May 17, 1951.

"aa"
MAUREY FUL-GRIP
SHEAVE

Applicant disclaims the words "Maurey Ful-Grip Sheave" separate and apart from the mark as shown.

For Bush-Type Sheaves Used With Heavy Duty Pulleys, V-Belts, and the Like.

Claims use since Aug. 7, 1950.

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Ser. No. 616,078. Broadbent-Johnston, Inc., El Monte, Calif. Filed July 5, 1951.

## BRO-JO

For Centrifugal Pumps for Handling Liquids, and Parts Thereof, and Portable Coolant Tank Pump Units Comprising Tank, Motor, Feed and Return Hose, and Centrifugal Pumps and Parts Thereof for Pumping Coolant Fluid to Machine Parts.

Claims use since in the month of May 1948.

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Ser. No. 616,258. United States Steel Company, Pittsburgh, Pa., now by merger United States Steel Corporation, a corporation of New Jersey. Filed July 9, 1951. (Sec. 2f.)

## LORIG-ALIGNER

For Belt Pulleys and Object-Supporting Rolls for Use in Conveying and Processing Lines.

Claims use since Dec. 6, 1950.

Ser. No. 623,407. Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Filed Jan. 10, 1952.




The lining on the drawing is for the purpose of shading only, no specific color is claimed.
For Printing Equipment—Namely, Composing Machines.
Claims use since Sept. 15, 1949.

Ser. No. 627,306. Sier-Bath Gear and Pump Co., Inc., North Bergen, N. J. Filed Mar. 6, 1952.

GEAREX

For Gear Type Pumps.
Claims use since Jan. 30, 1946.

Ser. No. 634,908. Meridan Corporation, Chicago, Ill. Filed Sept. 5, 1952. (Sec. 2f.)

DROLL

For Stapling Machines and Mattress Making Machines and Parts Thereof, and Accessories Therefor—Namely, Felt Turning Attachment and Anvil, Winders, Feed Racks, and Hemmers, and Plungers for Use in Closing and Filling Cushions.
Claims use since 1919.

Ser. No. 641,013. Car Parts Depot, Inc., El Paso, Tex. Filed Jan. 21, 1953.




Applicant disclaims the words "Car Parts Depot, Inc." as a part of the mark as shown.
For Automotive Equipment—Namely, Reconditioned Fuel Pumps, Carburetors, Crank Shafts, Cylinder Heads, and Combustion Engines.
Claims use since Oct. 25, 1952.

Ser. No. 641,324. Parks-Cramer Company, Fitchburg, Mass. Filed Jan. 26, 1953.

BUNCHLESS

Applicant claims ownership of Registration No. 294,647.
For Automatic Cleaners—Namely, Traveling Blowers That Are Particularly Adapted for Use in Directing a Stream of Air Downwardly Over Machines, for Example Spinning Frames, and the Work on the Machines To Keep the Machines and the Air Above the Machines Free From Dust and Other Fine Particles.
Claims use since on or about Jan. 1, 1925.

Ser. No. 642,256. Babson Bros. Co., Chicago, Ill. Filed Feb. 16, 1953.

Surge

Applicant claims ownership of Registrations Nos. 201,871, 387,233, and others.
For Vacuum Operated Clippers for Use in Shearing Livestock.
Claims use since Oct. 17, 1952.

Ser. No. 643,513. Truecraft Tool Company, Chicago, Ill. Filed Mar. 11, 1953.

TRUECRAFT

Applicant claims ownership of Registration No. 563,957.
For Pliers, Wrenches, and Screwdrivers.
Claims use since Dec. 30, 1947.

Ser. No. 648,141. Standard Blade Co. Inc., New York, N. Y. Filed June 2, 1953.

DORIC

Applicant claims ownership of Registration No. 300,389.
For Safety Razor Blades.
Claims use since July 1, 1932.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 609,854. The Foxboro Company, Foxboro, Mass. Filed Feb. 9, 1951.

CONSOTROL

For Industrial Process Instruments for the Control, Recording, or Indication of Process Variables Such as Temperature, Flow of Materials, Pressure, Liquid Level, and So Forth.
Claims use since Nov. 3, 1950.

Ser. No. 616,459. Sun Electric Corporation, Chicago, Ill. Filed July 13, 1951.




The shading and stippling of the points of the sunburst pattern of the trade-mark are intended only to show that the two sides of each point are of different appearance. The words "Diagnosis Equipment" are disclaimed apart from the trade-mark.
For Automotive Power Plant Testing Apparatus.
Claims use since June 13, 1950, or thereabouts.



Ser. No. 618,255. Sellstrom Manufacturing Company, Chicago, Ill. Filed May 17, 1951. (Sec. 2f as to "Sellstrom.")




The term "Safeguards" is disclaimed apart from the illustrated notation. Applicant claims ownership of Registration No. 419,957.
For Industrial and Sporting Goggles, Spectacles, Welders' Helmets; Eye, Nose, and Face Shields and Parts Thereof; and Lenses for Spectacles and Goggles.
Claims use since December 1943.

Ser. No. 628,746. Electronic Computer Corporation, New York, N. Y., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware. Filed Apr. 26, 1952.

ELECOM

For Electronic Digital Computers and Delay Lines.
Claims use since Oct. 3, 1951.

Ser. No. 629,083. Automatic Totalisators Limited, Meadowbank, Sydney, New South Wales, Australia. Filed May 2, 1952.




The outline representation of the continent of Australia is hereby disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Australian Registration No. 99,238, dated Dec. 19, 1951.
For Machines for Registering and Indicating the Number and Nature of Bets Made on Horse Races and Component Structural Parts Thereof.

Ser. No. 631,846. The Brearley Company, Rockford, Ill. Filed June 27, 1952.

LITE-O-MATIC

The first syllable "Lite" is disclaimed apart from the mark as a whole.
For Weighing Scales of the Platform Type for Home Use.
Claims use since Feb. 27, 1952.

## CLASS 29

### BROOMS, BRUSHES, AND DUSTERS

Ser. No. 648,510. D. W. Swindle, doing business as D. W. Swindle and Sons Company, Nashville, Tenn. Filed June 9, 1953.

GOLDEN RULE

For Brooms.
Claims use since June 1, 1953.

## CLASS 31

### FILTERS AND REFRIGERATORS

Ser. No. 643,246. The Steel City Manufacturing Co., Youngstown, Ohio. Filed Mar. 6, 1953.

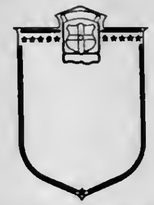
"Animated Raindrop"

For Refrigerated Beverage Dispensers.
Claims use since Dec. 15, 1952.

## CLASS 32

### FURNITURE AND UPHOLSTERY

Ser. No. 575,153. Massachusetts Mattress Company, Boston, Mass. Filed Mar. 9, 1949.



Applicant claims ownership of Registration No. 442,069.
For Mattresses and Box Springs.
Claims use since 1940.

Ser. No. 616,105. Kent-Coffey Manufacturing Company, Lenoir, N. C. Filed July 5, 1951.

The Whirlaway

For Furniture—Namely, Dressers, Vanities, Chests, Beds, Chestrobes, Nightstands, Chairs, Benches, Vanity Stools, Wardrobes, Chifforobes, Dresser Robes, Night Tables, Bedside Tables, Bedroom Desks, Chiffoniers, Bookcases, Commodes, Dressing Tables, Mirrors.
Claims use since May 4, 1951.

Ser. No. 616,107. Kent-Coffey Manufacturing Company, Lenoir, N. C. Filed July 5, 1951.

The Tempter

For Furniture—Namely, Dressers, Vanities, Chests, Beds, Chestrobes, Nightstands, Chairs, Benches, Vanity Stools, Wardrobes, Chifforobes, Dresser Robes, Night Tables, Bedside Tables, Bedroom Desks, Chiffoniers, Bookcases, Commodes, Dressing Tables, Mirrors.
Claims use since May 4, 1951.

Ser. No. 627,809. Helen Cole, Inc., New York, N. Y. Filed Apr. 9, 1952.

CANDLGLO

The lining shown on the drawing is for shading purposes only.
For Decorative Metal Table Stands for Holding Flower Pots and Vases.
Claims use since Jan. 30, 1952.

Ser. No. 630,590. Electroweld Mfg. Co., Inc., Chicago, Ill. Filed June 2, 1952.

Electroized
RUSTPROOF

The words "Electroweld—Chicago" and "Rustproof" are disclaimed apart from the mark as shown.

For Metal Wall and Floor Cabinets—Namely, Kitchen Cabinets, Wardrobes, and Utility Cabinets.

Claims use since on or about Apr. 21, 1952.

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Ser. No. 633,880. Serta Associates, Inc., Chicago, Ill., and Wilmington, Del. Filed Aug. 13, 1952.

**Restal Knight**

Applicant claims ownership of Registration No. 279,648.

For Mattresses.

Claims use since June 28, 1930.

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Ser. No. 634,394. Douglas Furniture Corporation, Chicago, Ill. Filed Aug. 25, 1952.



The lining and stippling shown on the drawing are for shading purposes only.

For Kitchen and Dinette Tables and Chairs.

Claims use since June 9, 1952.

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Ser. No. 637,481. Henry A. Enrich and Co. Inc., New York, N. Y. Filed Nov. 1, 1952.

**Merry-Go-Round**

For Shoe Rack.

Claims use since Oct. 17, 1952.

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Ser. No. 639,517. Stern Brothers, New York, N. Y. Filed Dec. 15, 1952. (Sec. 2f.)

*Stern's*

For Living Room Furniture—Namely, Sofas, Loveseats, Sectional Loveseats, Upholstered Chairs, Occasional Chairs, Hostess Chairs, Open Arm Chairs; Bed Room Furniture—Namely, Single Dressers and Mirrors, Double Dressers and Mirrors, Triple Dressers and Mirrors, Chests, Chests on Chests, Highboys, Night Tables, Commodes, Beds, Vanities and Mirrors, Benches, Poudre Tables, Bookcase Headboards, Chairs; Dining Room Furniture—Namely, China Cabinets, Corner Cabinets, Breakfront China Cabinets, Hutch China Cabinets, Buffets, Credenza Buffets, Servers, Serving Carts, Side Chairs, Arm Chairs, Table Chairs, Drop Leaf Tables, Console Tables; Kitchen Furniture—Namely, Dinette Tables, Chairs, Corner Cabinets, Buffets, Drop Leaf Tables, Serving Carts; and Bath Room Furniture—Namely, Dressing Tables, Benches, Vanities, Commode Dressers; Smoking Stands, Bed Springs, Mattresses, Pillows, Cushions, Clothes Racks, Window Shades, Venetian Blinds, and Bassinets.

Claims use since 1932.

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Ser. No. 640,601. Breneman-Hartshorn Inc., Cincinnati, Ohio. Filed Jan. 12, 1953.

**DIANA**

For Window Shades.

Claims use since 1936.

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Ser. No. 641,263. Atkins Plastic Products Co., New York, N. Y. Filed Jan. 26, 1953.

*Duo-Glide*

For Medicine Cabinets Used in the Bathroom of the Home.

Claims use since Nov. 15, 1952.

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Ser. No. 641,598. The Baby Scope Company, Inc., Los Angeles, Calif. Filed Feb. 2, 1953.

KIDDIE K·K KADDIE

The words "Kiddie" and "Original" are disclaimed apart from the mark as shown.

For Combination Child's High Chair and Walker.

Claims use since Sept. 2, 1952.

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## CLASS 34

### HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 582,584. United American Metals Corporation, Brooklyn, N. Y. Filed July 27, 1949.

**BABOMATIC**

For Movable Machinery for Heating and Pouring Metals Prior to Casting Same.

Claims use since Sept. 20, 1948.

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Ser. No. 590,484. The Bastian-Blessing Company, Chicago, Ill. Filed Jan. 7, 1950.

REGO EQUIPMENT

In this application no registration rights are claimed in the word "Equipment" used apart from the mark as shown. Applicant claims ownership of Registrations Nos. 115,833, 212,613, and 280,239.

For Equipment for Welding, Cutting, Brazing, Soldering, Lead Burning, Liquefied Petroleum Gas Burning and Carbon Burning, and Parts Thereof—Namely, Soldering and Brazing Torches, Carbon Burning Torches, Torch Tips, Spark Lighters, Cutting Torch Guides, Air-Blast Burners, Liquefied Petroleum Gas Burners, and Manifolds for Use With Heating Apparatus Including Wall Manifolds, Tripod Manifolds, Self-Supporting Manifolds, and Charging Manifolds; and Welding, Cutting, Brazing, Soldering, and Liquefied Petroleum Gas Burning and Carbon Burning Outfits and Equipment.

Claims use since Dec. 31, 1947.



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Ser. No. 619,269. John Stepanian, doing business as Step Laboratories, West New York, N. J. Filed Sept. 26, 1951.

**STEP**

For Control Valves for Gas Burners for Industrial and Laboratory Purposes and Blow Torches for Industrial and Laboratory Purposes.

Claims use since Aug. 28, 1951.

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## CLASS 35

### BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 621,336. Sealed Power Corporation, Muskegon Heights, Mich. Filed Nov. 16, 1951.

**FULL-FLOW**

For Piston Ring Expander Springs.

Claims use since November 1947.

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Ser. No. 621,684. S. P. A. Fren-Do, Leumann, Italy. Filed Nov. 20, 1951.

ORIGINAL FREN-DO

The words "Per Freni e Frizioni" in English translation means "For Brakes and Clutches." The words "Original" and "Per Freni e Frizioni" are disclaimed apart from the mark as shown on the drawing.

For Friction Linings for Brakes and Clutches.

Claims use since July 29, 1922; and first used in commerce between foreign nations and the United States on Mar. 31, 1951.

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Ser. No. 638,397. Birma Products Corporation, Buffalo, N. Y. Filed Nov. 21, 1952.

**PRESGLAS**

For Gaskets and Packing Material Made Mainly of Mineral Fibers.

Claims use since Aug. 28, 1952.

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Ser. No. 641,877. Victaulic Company of America, Union, N. J. Filed Feb. 6, 1953.

**"VIC"**

Applicant claims ownership of Registrations Nos. 198,491, 287,696, and others.

For Gaskets Composed of Rubber, Synthetic Rubber, Plastic, and Combinations Thereof.

Claims use since Jan. 14, 1953.

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Ser. No. 642,941. Callahan Zinc-Lead Company, Inc., Amesbury, Mass. Filed Mar. 2, 1953.

**FLEXAUST**

For Wire Reinforced Fabric Hose.

Claims use since January 1939.

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## CLASS 36

### MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 625,268. Giulietti Accordion Corporation, New York, N. Y. Filed Feb. 20, 1952.

JG

The monogram consists of the letters "JG."

For All Types of Accordions.

Claims use since June 27, 1951.

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Ser. No. 640,637. Wm. Kratt Co., Union, N. J. Filed Jan. 12, 1953.

THE MASTER KEY

The word "Key" is hereby disclaimed apart from the mark as shown.

For Pitch Pipes.

Claims use since September 1927.

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## CLASS 37

### PAPER AND STATIONERY

Ser. No. 578,106. Omer J. Smith, doing business as Paper Products Co., Cincinnati, Ohio. Filed May 2, 1949.



For Paper Products—Namely, Cake Support Cards, Pan Liners, Paper Board for Boxes Sold in Rolls or Sheets, and Backboards for Supporting Articles of Wearing Apparel.

Claims use since Jan. 15, 1944.

Ser. No. 613,174. Lady Mary, Incorporated, Rockingham, N. C. Filed Apr. 26, 1951.

Lady Mary's

For Ornamental Paper Pastry Boards.
Claims use since Mar. 5, 1951.

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Ser. No. 623,866. Marcalus Manufacturing Co. Inc., East Paterson, N. J. Filed Jan. 21, 1952.

## SANI-HANKS

The term "Hanks" is disclaimed apart from the mark shown. Applicant claims ownership of Registration No. 284,408.
For Paper Handkerchiefs.
Claims use since on or about Apr. 5, 1930.

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## CLASS 38

### PRINTS AND PUBLICATIONS

Ser. No. 608,616. Anne F. and Stewart Miller, Miami, Fla. Filed Jan. 10, 1951.




For Publications of Cartoons Issued From Time to Time.
Claims use since Jan. 10, 1951.

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Ser. No. 632,064. American Hospital Association, Chicago, Ill. Filed July 2, 1952.

Blue Print
FOR HEALTH

No exclusive claim is made to the word "Health" apart from the mark as shown in the drawing.
For Quarterly Magazine.
Claims use since December 1946.

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Ser. No. 637,838. The Progressive Farmer Company, Birmingham, Ala. Filed Nov. 8, 1952.

ink pot
FARMER

For Employee Publication.
Claims use since Aug. 7, 1952.

Ser. No. 638,571. The Dealers' Digest Publishing Company, Inc., New York, N. Y. Filed Nov. 25, 1952.




No claim is made to the words "Invest in America" apart from the mark as shown.
For Magazines.
Claims use since Sept. 8, 1952.

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Ser. No. 642,765. Munson Masterpieces, Inc., Babylon, N. Y. Filed Feb. 25, 1953.




Apart from the combination "Munson Masterpieces" and design, the word "Munson" is disclaimed. The representation of the statue shown on the drawing is fictitious.
For Greeting Cards.
Claims use since Nov. 25, 1952.

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Ser. No. 642,767. Parade Publication, Inc., New York, N. Y. Filed Feb. 25, 1953.

## This Is America

The word "America" is disclaimed apart from the mark as shown.
For Feature Picture Section of a Periodical.
Claims use since Feb. 8, 1953.

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Ser. No. 644,458. Sawyer's Inc., Progress and Portland, Oreg. Filed Mar. 30, 1953.

"Eyes of Knowledge"

For Books.
Claims use since Dec. 10, 1952.

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Ser. No. 644,508. Management Service Publications, Inc., New York, N. Y. Filed Mar. 31, 1953.

Know-How

For Periodical Devoted to Management-Labor Relations.
Claims use since Feb. 16, 1953.



## CLASS 39

### CLOTHING

Ser. No. 527,789. Herbert L. Roberts, Columbus, Ohio. Filed July 5, 1947. (Sec. 2f.) CONCURRENT USE with Serial No. 569,751 for the area comprising the States of Ohio, West Virginia, Kentucky, Pennsylvania, and Indiana.

## ROBERTS

For Women's and Girls' Wearing Apparel: Namely, Coats; Suits; Raincoats; Fur Coats; Fur Capes; Fur Jackets; Fur Pieces; Fur Scarfs; Fur Muffs; Dresses; Evening Dresses; Sports Jackets; Skirts; Housecoats; Brunch Coats; Slacks; Smocks; Playclothes—Namely, Shorts, Pedal Pushers, Sport Shirts, Overalls, Halters, Bathing Suits, Bathing Caps, Beach Robes; Bridal Sets (i. e., Bridal Nightgowns and Matching Negligee); Nightgowns; Petticoats; Vests; Girdles; Bed Jackets; Chemises; Slips; Panties; Handeaux; Lounging Robes; Garter Belts; Pajamas; Fabric Gloves; Head Scarfs; Handkerchiefs; Sweaters; Blouses; Hosiery; Anklets; Hats; Bridal Veils; and Hair Nets.
Claims use since Sept. 12, 1914.

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Ser. No. 563,207. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Filed Aug. 11, 1948.



The drawing is lined for the color red. The representation of a sole is disclaimed apart from the mark as shown. Applicant claims ownership of Registrations Nos. 29,476, 36,471, and others.
For Rubber Soles and for Footwear Made of Rubber and of Combinations of Rubber and Fabric and of Rubber and Leather—Namely, Boots, Shoes, Overshoes, Arctics, Gaiters, Rubbers, Footholds, Locker Sandals, Overs, Canvas Shoes, and Casual and Novelty Shoes.
Claims use since 1900.

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Ser. No. 569,751. Furs By Robert, Detroit, Mich. Filed Dec. 2, 1948. (Sec. 2f.) CONCURRENT USE with Serial No. 527,789 for the area comprising all the States of the United States, except the States of Ohio, West Virginia, Kentucky, Pennsylvania, and Indiana.

Furs by Robert

The words "Furs by" are disclaimed.
For Fur Garments, and Women's Apparel—Namely, Fur and Fur Trimmed Coats, Jackets, Capes, Stoles, Muffs, Scarfs, Hats, Gloves, Fur Trimmed Dresses, Belts, Suits, and Fur Pieces.
Claims use since Jan. 1, 1936.

Ser. No. 615,468. Spiegel, Inc., Chicago, Ill. Filed June 20, 1951.

## CUSTOM FLEX

Applicant claims the exclusive right to the use of the word "Custom" as a part of its trade-mark, but not otherwise. Applicant claims ownership of Registration No. 359,253.
For Men's and Ladies' Shoes.
Claims use since July 1937.

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Ser. No. 619,488. Brevitt Shoes Limited, Leicester, England. Filed Sept. 27, 1951.

## BREVITT FIRSTS

Priority under Sec. 44(d). British application, filed Apr. 26, 1951, Registration No. 697,781. No claim is made to the word "Firsts" apart from the mark as shown.
For Boots, Shoes, and Slippers for Men, Women, or Children.

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Ser. No. 626,528. The Nobil Shoe Company, Akron, Ohio. Filed Mar. 15, 1952.

Travel Flex

For Ladies' Leather Shoes.
Claims use since 1942.

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Ser. No. 626,775. R. G. Barry Corporation, Columbus, Ohio. Filed Mar. 21, 1952.

PLAT-FOAMS

The word "Foams" is disclaimed except in association with the mark as shown.
For Platform Slippers Having Soles of Cellular Rubber for Men and Women.
Claims use since Nov. 27, 1951.

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Ser. No. 628,674. Cowden Manufacturing Company, Lexington, Ky. Filed Apr. 25, 1952.

## CACTUS JACK

For Work Clothing—Namely, Dungaree Pants or Waistband Overalls.
Claims use since Mar. 24, 1952.

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Ser. No. 636,195. Barkin, Levin & Co. Inc., New York, N. Y. Filed Oct. 6, 1952.

Lassie Jr.

The notation "Jr." is disclaimed apart from the mark as shown. Applicant claims ownership of Registration No. 378,276.
For Ladies' and Misses' Coats.
Claims use since July 23, 1952.

Ser. No. 636,196. Barkin, Levin & Co. Inc., New York, N. Y. Filed Oct. 6, 1952.

Lassie Maid

Applicant claims ownership of Registration No. 228,767.
For Ladies' and Misses' Coats.
Claims use since July 23, 1952.

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Ser. No. 637,540. Highlander Sportswear, Inc., New York, N. Y. Filed Nov. 3, 1952.

Clima-trol

For Men's, Women's, Boys', and Girls' Sportswear—Namely, Sport Jackets, Leather Coats, and Zippered Jackets.
Claims use since Aug. 13, 1952.

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Ser. No. 640,202. Feldan Brothers, New York, N. Y. Filed Dec. 31, 1952.

BICYCLE STRIPES

No claim is made to the word "Stripes" apart from the mark shown in the drawing.
For Hosiery for Boys.
Claims use since Nov. 11, 1952.

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Ser. No. 640,762. Manoah N. Shrago, Goldsboro, N. C. Filed Jan. 14, 1953.




The drawing filed is lined in part with gold and in part in black for the purposes of attractiveness and to set off the center circle of gold in a distinctive manner. No claim is made to the words "Quality" or "Shoes" apart from the mark as shown in the drawing.
For Leather Shoes for Men, Women, and Children.
Claims use since Apr. 1, 1949.

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Ser. No. 640,810. Russell & Holmes Corp., Suffolk, Va. Filed Jan. 15, 1953.

Southern DEB shoes

No exclusive claim is made to the word "Shoes" apart from the mark as shown in the drawing.
For Growing Girls' and Women's Shoes.
Claims use since Dec. 16, 1952.

Ser. No. 641,310. Lansburgh & Bro., Washington, D. C., assignor to City Stores Company, a Delaware corporation. Filed Jan. 26, 1953. (Sec. 2f.)

Lansburgh's

Applicant claims ownership of Registrations Nos. 182,587 and 328,533.
For Women's, Misses', and Children's Coats, Suits, Dresses, Blouses, and Negligees, and Men's and Boys' Coats, Suits, Jackets, and Sweaters.
Claims use since on or about July 1, 1942.

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Ser. No. 641,433. W. B. Coon Company, Rochester, N. Y. Filed Jan. 28, 1953. (Sec. 2f.)

WBCoonCo

"W. B. Coon Co." is the facsimile signature of applicant's name by W. B. Coon, its founder, now deceased. Applicant claims ownership of Registration No. 229,155.
For Women's Shoes of Leather and Fabric.
Claims use since May 1926.

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Ser. No. 641,434. W. B. Coon Company, Rochester, N. Y. Filed Jan. 28, 1953.

Wilbur Coon

"Wilbur Coon" is the facsimile signature of the deceased founder of the applicant corporation. Applicant claims ownership of Registration No. 229,156.
For Women's Shoes of Leather and Fabric.
Claims use since May 1926.

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Ser. No. 641,724. Harrison Brothers, New York, N. Y. Filed Feb. 4, 1953.

Harbro

For Church Garments Consisting of Vestments, Albs, Surplices, Rochets, Masa Linens, Cinctures, Veatment Covers, Communion Vells, and Confirmation Vells.
Claims use since Jan. 14, 1952.

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Ser. No. 642,710. Tenoessee Hosiery Mills Co., Niota, Tenn. Filed Feb. 24, 1953.

The BRUTE

For Men's Socks.
Claims use since June 20, 1952.



Ser. No. 642,978. "Little California" Coat Co., Los Angeles, Calif. Filed Mar. 2, 1953.

SUN-PACA

For Coats for Children and Junior Misses.
Claims use since Dec. 1, 1951.

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## CLASS 42

## KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 626,867. Ehniger Mills, Inc., New York, N. Y. Filed Mar. 22, 1952.

WISP-WATE

For Textile Fabrics in the Piece Made of Cashmere.
Claims use since on about Feb. 20, 1952.

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Ser. No. 628,994. Arkwright Merchandising Corporation, New York, N. Y. Filed May 1, 1952.

bonnie baby

Applicant disclaims the word "Baby" apart from the mark as shown in the drawing.
For Infants' Crib Pads, Crib Sheets, and Crib Blankets, Made of Flannelet Fabrics.
Claims use since Nov. 5, 1951.

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Ser. No. 644,564. North Star Woolen Mill Company, Lima, Ohio. Filed Apr. 1, 1953.

NORTH STAR

Applicant claims ownership of Registrations Nos. 120,773, 378,875, and others.
For Blankets Made of Wool, of Wool and Cotton, and of Wool and Synthetic Fibers.
Claims use since on or about Aug. 31, 1946.

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Ser. No. 644,686. Pepperell Manufacturing Company, Boston, Mass. Filed Apr. 3, 1953.

Guardian

Applicant claims ownership of Registration No. 52,272.
For Blankets.
Claims use since Dec. 15, 1952.

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Ser. No. 644,743. Dan River Mills, Incorporated, Danville, Va. Filed Apr. 6, 1953. (Sec. 2f.)

MARNE

Applicant claims ownership of Registration No. 301,855.
For Cotton Broadcloth Shirting in the Piece.
Claims use since Dec. 1, 1931.



Ser. No. 644,889. Joseph Bancroft & Sons Co., Wilmington, Del. Filed Apr. 8, 1953.

NOTTOC

For Fabrics of Cotton and of Synthetic Fibers, Including Rayon and Nylon, and Combinations Thereof.
Claims use since Mar. 18, 1953.

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Ser. No. 644,956. Beacon Manufacturing Company, Swannanoa, N. C. Filed Apr. 9, 1953.

Huron

For Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool.
Claims use since Jan. 7, 1925.

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Ser. No. 645,036. Deering, Milliken & Co., Inc., New York, N. Y. Filed Apr. 10, 1953.

CUENETWEED

For Textile Fabrics Made of Wool, Cotton, and Synthetic Fibers and Combinations Thereof.
Claims use since Mar. 30, 1953.

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Ser. No. 645,133. Foratmann Woolen Co., Passaic, N. J. Filed Apr. 13, 1953.

VELFINA

Applicant claims ownership of Registrations Nos. 303,792 and 408,532.
For Woolen Piece Goods.
Claims use since Apr. 8, 1953.

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Ser. No. 645,443. Topton Rug Manufacturing Co., Mertztown, Pa., and New York, N. Y. Filed Apr. 16, 1953.

Early Timer

For Wool Braided Rugs.
Claims use since Jan. 29, 1953.

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Ser. No. 645,535. Burlington Mills Corporation, Greensboro, N. C. Filed Apr. 20, 1953.

ROYAL SCOT

Applicant claims ownership of Registration No. 306,753.
For Fabrics in the Piece of Synthetic Fibers.
Claims use since about Sept. 15, 1939.

## CLASS 44

### DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 583,312. C. J. Bates & Son, Chester, Conn. Filed July 12, 1949.

**SHEAR CUT**

Applicant claims ownership of Registration No. 417,659.
For Manicure Articles—Namely, Nail Brushes, Nail Buffers, Nail Files, Nail Clippers, Cuticle Knives, Scissors, Manicure Sticks, Tweezers, Emery Boards, Pumice Boards, and Nail Polishers.
Claims use since May 29, 1944.

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Ser. No. 593,247. Société Mulban S. À. R. L., Paris, France. Filed Mar. 1, 1950.

**RINOCLIP**

Applicant claims ownership of French Registration No. 445,938, dated Feb. 23, 1949.
For Nasal Inhaling Apparatus for Volatile Substances.

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Ser. No. 632,774. Davis & Geck, Inc., Brooklyn, N. Y. Filed July 19, 1952.

**MELMAC**

Applicant claims ownership of Registration No. 388,600.
For Orthopedic Composition—Namely, a Melamine-Formaldehyde Resin Composition for Use in the Preparation of a Modified Plaster of Paris Cast.
Claims use since June 23, 1952.

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Ser. No. 636,425. The Macalaster Bicknell Parenteral Corporation, Cambridge, Mass. Filed Oct. 9, 1952.

**KLEEN-O-MATIC**

No claim of exclusive use right is herein made for the word "Kleen" apart from the mark as a whole.
For Hypodermic-Needle Washer Units, Hypodermic-Needle Rinser Units, Hypodermic-Needle Washer-Rinser Units, and Hypodermic-Needle-Holding Manifolds for Such Units.
Claims use since on or about June 10, 1952.

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Ser. No. 639,058. Le Ron-Carew, Hollywood, Calif. Filed Dec. 5, 1952.

**REMINDERS**

For Paper Adhesive Strips To Be Applied to the Forehead To Discourage Frowning.
Claims use since Nov. 15, 1952.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Ser. No. 538,767. Kuner-Empson Company, Brighton, Colo. Filed Oct. 23, 1947.



The drawing is lined to indicate the contrasting black and red color marking. Applicant claims ownership of Registration No. 229,933.
For Canned Vegetables and Canned Fruits.
Claims use since on or about Jan. 25, 1937.

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Ser. No. 575,798. Armour and Company, Chicago, Ill. Filed Jan. 13, 1949.

**PANTRY-SHELF MEALS**

The word "Meals" is disclaimed apart from the mark as shown.
For Canned Foods—Namely, Calves' Tongue, Sheep Tongue, Lunch Tongue, Beef Tongue, Lamb Tongue, Deviled Tongue, Liver Spread, Bouillon Cubes, Powdered Beef Bouillon, Powdered Chicken Bouillon, Dry Whole Milk Powder, Condensed Milk, Evaporated Milk, Hams, Deviled Ham, Chopped Ham, Beef Stew, Lamb Stew, Mince Meat, Chili Con Carne, Deviled Meat, Potted Meats, Bacon, Beef Extract, Pork Loin, Pressed Pork, Veal and Pork Loaf, Liver Loaf, Beef Tripe, Honeycomb Tripe, Corned Beef, Corned Mutton, Roast Beef, Dried Beef, Spiced Luncheon Meat, Pork Feet Cutlets, Pigs Feet, Tamales; Blends of Beef Extract, Flavoring, and Tomato Juice; Meat Gravy, Hamburger Patties, Corned Beef Hash, Frankfurters, Pork and Hominy, Pate de Foie, Vienna Sausage, Spaghetti and Meat, Chop Suey, Ham a la King and Dog Food.
Claims use since Oct. 16, 1948.

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Ser. No. 624,129. Mary Clark's Happy Heart Kitchens, Los Angeles, Calif. Filed Jan. 28, 1952.

**Mary Clark's HAPPY HEART KITCHENS**

The word "Kitchens" is disclaimed apart from the trade-mark. "Mary Clark" is the maiden name of Mary Clark Imbruglia, who is a member of the applicant firm by whom the application papers were executed.
For Fudge Candy, Orange Date Pudding, Plum Pudding, Brandy Pudding, an Miniature Pizza.
Claims use since Sept. 15, 1949.

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Ser. No. 625,883. Balfour, Guthrie & Co., Limited, San Francisco, Calif. Filed Mar. 4, 1952.

**Flying Cloud**

Applicant claims ownership of Registration No. 277,217.
For Canned Fruits; Canned Vegetables; Fresh Citrus Fruits, Fresh Deciduous Fruits; Fresh Vegetables; Dried Fruits; and Canned Fish.
Claims use since December 1925.



Ser. No. 626,190. Routhilet-Gray Laboratories, Inc., St. Paul, Minn. Filed Mar. 10, 1952.

**STER-LAZE**

For Fresh Eggs.
Claims use since Sept. 19, 1951.

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Ser. No. 629,810. Mother's Food Products, Inc., Newark, N. J. Filed May 16, 1952.

**Mother's**

Applicant claims ownership of Registrations Nos. 540,298, 560,717, and 552,693.
For Sweet Peppers, Cucumber Salad (the Said Goods Being Packaged in Glass Jars).
Claims use since Apr. 25, 1952.

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Ser. No. 630,743. Allen Foods, Inc., St. Louis, Mo. Filed June 5, 1952.

**Ida-Lu**

The representations of the man and woman are fanciful.
For Malt Vinegar, Steak Sauce, Worcestershire Sauce, Hot Dog Sauce, Sea Food Sauce, Mushroom Sauce, and French Dressing.
Claims use since Nov. 9, 1951.

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Ser. No. 631,030. Weston Biscuit Company, Inc., doing business under the name Southern Biscuit Company, Passaic, N. J., and Richmond, Va. Filed June 10, 1952.

***GARDEN CLUB ASSORTMENT***

The word "Assortment" is disclaimed apart from the mark shown.
For Cakes, Cookies, and Crackers.
Claims use since May 12, 1952.

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Ser. No. 631,507. United Pure Food Co., New York, N. Y. Filed June 20, 1952.

**Parti-Pal**

For Combination Package of Olives, Cherries, and Onions, in Bottles.
Claims use since June 12, 1952.

Ser. No. 637,605. Neesen Trading Company, Inc., New York, N. Y. Filed Nov. 4, 1952.

**JOVY**

For Cured Hams Sold in Tins.
Claims use since Oct. 8, 1952.

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Ser. No. 638,268. Neesen Trading Company, Inc., New York, N. Y. Filed Nov. 18, 1952.

**DUTCH HOSTESS**

No claim is made to the word "Dutch" apart from the mark as shown.
For Cured Hams Sold in Tins.
Claims use since Oct. 31, 1952.

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Ser. No. 642,025. Eskimo Pie Corporation, Bloomfield, N. J. Filed Feb. 10, 1953.

**ESKIMO**

Applicant claims ownership of Registrations Nos. 534,287 and 544,916.
For Vanilla Extract for Food Purposes.
Claims use since Dec. 10, 1952.

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Ser. No. 645,111. The Chicago Dietetic Supply House, Inc., Chicago, Ill. Filed Apr. 13, 1953.

**WAYLOW DROPS**

No claim is made to the exclusive use of the word "Drops" apart from the mark shown in the drawing.
For Sugarless Candy Substitute for Restricted Dietary Use.
Claims use since Mar. 21, 1953.

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Ser. No. 647,375. Sioux Honey Association, Cooperative, Sioux City, Iowa. Filed May 20, 1953.

**'SUE BEE'**

No claim is made to the word "Bee."
For Honey.
Claims use since 1948.

## CLASS 50

### MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 595,584. Anchor Hocking Glass Corporation, Lancaster, Ohio. Filed Apr. 12, 1950. (Sec. 2f.)

**DUALSEAL**

For Closure Caps.
Claims use since Feb. 14, 1950.

Ser. No. 620,772. Chiklip Company, New York, N. Y. Filed Nov. 1, 1951.

CHIKLIP

For Antipicking Poultry Blinders Permitting Vision in All Directions Except Forward.
Claims use since May 1949.

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Ser. No. 621,886. Max Katz Bag Company, Inc., Indianapolis, Ind. Filed Nov. 30, 1951.

MAX KATZ BAG CO. INDIANAPOLIS, IND.

The name "Max Katz" is that of the founder of the corporation and consent is given. The representation of a bag, and the words "Bag Co." and "Indianapolis, Ind." are disclaimed apart from the mark as shown in the drawing. Applicant claims ownership of Registration No. 549,358.
For Tarpaulins, Burlap Covers, Canvas Covers, and Cotton Covers, Equipped With Tie-Down Rigging.
Claims use since 1911.

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Ser. No. 625,956. Binita Gift Wares, Chicago, Ill. Filed Mar. 5, 1952.

Binita

For Decorative Artificial Fruits.
Claims use since Nov. 1, 1949.

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## CLASS 51

## COSMETICS AND TOILET PREPARATIONS

Ser. No. 608,378. The Pharma-Craft Corporation, New York, N. Y. Filed Jan. 4, 1951.

oteen

For Deodorant Mouth Wash.
Claims use since Jan. 21, 1949.

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Ser. No. 610,991. David J. Rolfs, doing business as The Nice Company, Barton, Wis. Filed Mar. 7, 1951.

Nice

For Deodorant and Anti-Perspiration Preparations.
Claims use since Oct. 16, 1950.

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Ser. No. 612,026. The Mennen Company, Newark, N. J. Filed Mar. 30, 1951. (Sec. 2f.)

MENNEN

Applicant claims ownership of Registrations Nos. 504,689, 505,807, and others.
For Personal Deodorant.
Claims use since Oct. 18, 1949, on the goods specified; and since July 12, 1899, on related goods.

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Ser. No. 615,727. Helen Neushaefer, Inc., College Point, N. Y., formerly A. Sartorius & Co., Inc. Filed June 26, 1951.

PLASTEEN

For Nail Polish.
Claims use since Feb. 4, 1946.

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Ser. No. 625,406. Dand-Rid'r Company, New York, N. Y. Filed Feb. 23, 1952.

DAND-RID'R

The drawing is lined for green. No claim is made to the word "Rid'r" apart from the mark as shown.
For Dandruff Preparation.
Claims use since Aug. 1, 1951.

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Ser. No. 629,894. Antonio Hernandez, doing business under the name and style of Kapoot Industries, Los Angeles, Calif. Filed May 19, 1952.

KAPOOT

For Deodorant Cream.
Claims use since Apr. 25, 1952.

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Ser. No. 639,412. Better Brushes, Incorporated, Palmer, Mass. Filed Dec. 13, 1952. (Sec. 2f.)

BETTER BRUSHES

Applicant claims ownership of Registration No. 206,542.
For Bath Oil, Liquid Skin Balm, and Cream Deodorant.
Claims use since November 1942.

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Ser. No. 639,572. Robert P. Johns, New York, N. Y. Filed Dec. 16, 1952.

Boutique

For Perfumes and Toilet Waters.
Claims use since Dec. 1, 1952.



Ser. No. 639,789. Stanley Home Products, Inc., Westfield, Mass. Filed Dec. 19, 1952.

Lady Catherine

The mark is not the name of an individual; it is merely a fanciful name.
For Cosmetics for Ladies—Namely, Lipsticks, Rouges, Perfumes, Colognes, Face Powders, Deodorants, Face Creams, Facial Astringents, Face and Hand Lotions, Hair Creams, Nail Polish, Mascaras, Eye Shadows, Bath Salts, Breath Purifiers, and Sachets.
Claims use since Oct. 31, 1952.

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Ser. No. 642,768. Pedi-Pak Products, Inc., Chicago, Ill. Filed Feb. 25, 1953.

Patricia Reid

The name "Patricia Reid" is the name of the president of the applicant corporation, who does hereby consent to registration of this name.
For Polish for Finger Nails and Toe Nails.
Claims use since Jan. 15, 1953.

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Ser. No. 643,307. Max Factor & Co., Hollywood, Calif. Filed Mar. 9, 1953.

RIDING HOOD RED

No claim is made to the word "Red" apart from the mark as shown.
For Cosmetics, Theatrical Make-up, and Similar Preparations—Namely, Lipsticks, Nail Enamel, and Rouge.
Claims use since Mar. 3, 1953.

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## CLASS 52

## DETERGENTS AND SOAPS

Ser. No. 620,895. Harold E. Little, Roanoke, Va. Filed Nov. 5, 1951.

BUCKET O' SUDS

The word "Suds" is disclaimed apart from the mark as shown on the drawing.
For Compounded Synthetic Detergent Used To Wash Automobiles.
Claims use since Oct. 29, 1947.

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Ser. No. 623,710. The Davies-Young Soap Company, Dayton, Ohio. Filed Jan. 17, 1952.

Buckeye

DYSH

No claim is made to the word "Dysh" apart from the mark shown although applicant waives no common law rights to the same. Applicant claims ownership of Registration No. 157,661.
For Powdered Soap.
Claims use since Dec. 7, 1951.

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Ser. No. 625,256. Commonwealth Color & Chemical Company, New York, N. Y. Filed Feb. 20, 1952.

ORADEX

For Product Known as an Organic Reducing Agent of the Addition Type Which Is the Addition Product of a Soluble Bisulphite and an Aldehyde, and Is Adapted To Reduce Cupric Compounds to Cuprous, for the Pre-Scouring or Cleansing of Polyacrylic Fibers Previous to the Dyeing Operation.
Claims use since Nov. 21, 1951.

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Ser. No. 635,213. Associated Brands, Inc., Brooklyn, N. Y. Filed Sept. 13, 1952. (Sec. 2f.)

WEST POINT

Applicant claims ownership of Registrations Nos. 299,249 and 335,143.
For Hair Shampoo.
Claims use since Oct. 9, 1931.

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Ser. No. 635,214. Associated Brands, Inc., Brooklyn, N. Y. Filed Sept. 13, 1952. (Sec. 2f.)

WEST POINT

Applicant claims ownership of Registrations Nos. 299,249 and 335,143.
For Hair Shampoo.
Claims use since Oct. 9, 1931.

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Ser. No. 639,605. Ansul Chemical Company, Marinette, Wis. Filed Dec. 17, 1952.



The mark consists of two superimposed circles slightly spaced from each other, the upper one being slightly smaller in diameter than the lower one, and a vertical bar positioned adjacent the right side of the circles slightly spaced therefrom giving the impression of a conventionalized letter "a."
For Cleaning Solvent for Refrigeration Equipment.
Claims use since July 15, 1952.

# SERVICE MARKS

## CLASS 101

### ADVERTISING AND BUSINESS

Ser. No. 623,911. Radio Dollars, Inc., Washington, D. C. Filed Jan. 22, 1952.

**RADIO DOLLARS**

The word "Radio" is disclaimed except as used with the mark.

For Sales Promotion of Radio Advertisers' Goods and Services Through the Issuance of Premium Coupons Redeemable in Merchandise Prizes.

Claims use since August 1951.

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Ser. No. 637,631. Maggie Wulff, doing business as Wulff Public Relations, Cleveland, Ohio. Filed Nov. 4, 1952.

**MAGGIE WULFF SHOW**

The descriptive word "Show" is herewith disclaimed except as used in conjunction with and following the words "Maggie Wulff."

For Advertising the Goods and Services of Others Through the Medium of a Radio Broadcast Program Consisting of News of Interest to Women on Clothing, Homemaking, Persons, and Social Gatherings.

Claims use since Mar. 1, 1951.

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## CLASS 103

### CONSTRUCTION AND REPAIR

Ser. No. 532,047. National Water Main Cleaning Company, New York, N. Y. Filed Aug. 21, 1947. (Sec. 2f.)




The drawing is lined to indicate shading. Applicant claims ownership of Registration No. 77,945.

For Maintenance and Cleaning of Pipe Lines and Particularly, for the Cleaning of Water Mains.

Claims use since January 1910.

## CLASS 105

### TRANSPORTATION AND STORAGE

Ser. No. 638,626. Allied Van Lines, Inc., Broadview, Ill. Filed Nov. 26, 1952.



For Storage and Packing of Household Goods and for the Transportation of Household Goods by Motor Vehicle.

Claims use since Aug. 14, 1950.

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Ser. No. 642,846. Sita-Adventure Trails, Inc., New York, N. Y. Filed Feb. 26, 1953.

**SOUTHERN CROSS TOURS**

The mark sought to be registered consists of the words "Southern Cross Tours" but the word "Tours" is disclaimed except in the association shown.

For Conducting Escorted Travel Tours.

Claims use since Jan. 15, 1953.



# TRADE-MARK REGISTRATIONS GRANTED

## ACT OF 1946, PRINCIPAL REGISTER

578,968. Plug, Twist, and Smoking Tobacco. Taylor Brothers, Inc., Winston-Salem, N. C.
Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Feb. 25, 1948, Serial No. 525,449. Published Oct. 30, 1951. Class 17.

578,969. Account, Data, and Order Books. Western Tablet & Stationery Corporation, Dayton, Ohio. Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Sept. 25, 1951, Serial No. 526,147. Published Apr. 14, 1953. Class 37.

578,970. Axes; Bark Spuds; Axe and Hatchet Cases; Cant Hooks, Etc. The Peavey Manufacturing Company, Oakland, Maine.
Filed Oct. 16, 1947, Serial No. 538,036. Published May 5, 1953. Class 23.

578,971. Ready Mixed House Paint, Paint and/or Baking Enamel, Varnish, Liquid Wood Stain, Traffic Paint, and Colors in Oil in Concentrated Form Used for Coloring, Tinting, and Shading Other Paints. Baltimore Paint & Color Works, Baltimore, Md.
Filed Jan. 21, 1948, Serial No. 547,606. Published June 9, 1953. Class 16.

578,972. Glacé Cherries, Marshmallows, Fruit Jellies, and Fruit Fillings Used in the Baking of Pastries. Joseph Middleby Jr. Inc., Boston, Mass.
Filed Apr. 6, 1948, Serial No. 553,968. Published May 26, 1953. Class 46.

578,973. Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded Put Up in Boxes, Portfolios or Banded Packages. Western Tablet & Stationery Corporation, Dayton, Ohio.
Filed June 2, 1948, Serial No. 558,333. Published Apr. 28, 1953. Class 37.

578,974. Cheese in Bulk Form. S. A. Latterie Industriali Riunite L. I. R., Robbio, Lomellina, Italy.
Filed Aug. 13, 1948, Serial No. 563,368. Published May 26, 1953. Class 46.

578,975. Ice Milk and Ice Milk Powder. Sweden Freezer Manufacturing Company, also doing business under the name of Sweden Freezer Company, Seattle, Wash.
Filed June 18, 1949, Serial No. 580,757. Published May 26, 1953. Class 46.

578,976. Variable Speed Transmissions Employed Between a Drive and Driven Member. Stevens Research Company, Dearborn, Mich.
Filed July 21, 1949, Serial No. 582,325. Published May 5, 1953. Class 23.

578,977. Trade Catalog Published From Time to Time. Locke Incorporated, Baltimore, Md., now by merger General Electric Company, a corporation of New York.
Filed Oct. 21, 1949, Serial No. 586,643. Published June 2, 1953. Class 38.

578,978. Canned Apple Sauce, Apple Butter, Tomato Catsup, Etc. American Stores Company, Philadelphia, Pa.
Filed Dec. 1, 1949, Serial No. 588,622. Published May 26, 1953. Class 46.

578,979. Metal Venetian Blinds. Arlington Window Shade Corporation, New York, N. Y.
Filed Jan. 3, 1950, Serial No. 590,251. Published June 2, 1953. Class 32.

578,980. Control Instruments Employed To Regulate Heat Output of Combustion Heating Facilities Such as Stoves, Etc. Bacharach Industrial Instrument Company, Pittsburgh, Pa.
Filed Feb. 7, 1950, Serial No. 592,066. Published May 19, 1953. Class 26.

578,981. Curtain Poles, Cornices for Interior Decorations, Frames for Paintings and Photographies, Mirrors Used in Connection With Furniture, Wall Mirrors, Hand Mirrors, and Mirror Frames. Exportlists Försäljnings Aktiebolag, Nykoping, Sweden.
Filed Apr. 20, 1950, Serial No. 596,018. Published June 9, 1953. Class 32.

578,982. Wheat Flour. Distributors Trucking Corporation, New York, N. Y.
Filed May 15, 1950, Serial No. 599,206. Published May 26, 1953. Class 46.

578,983. Woven or Knitted Laundry and Dry-Cleaning Bags. R. Lally Co., Evanston, Ill.
Filed July 12, 1950, Serial No. 600,540. Published June 2, 1953. Class 2.

578,984. Fresh Apples and Pears. Thomas A. Duthie, doing business under the assumed business name of Duthie & Company, Portland, Oreg.
Filed July 18, 1950, Serial No. 600,825. Published May 26, 1953. Class 46.

578,985. Stainless Steel Table Cutlery—Namely, Knives, Forks, and Spoons. National Silver Company, New York, N. Y.
Filed July 29, 1950, Serial No. 601,456. Published Dec. 12, 1950. Class 23.

578,986. Laboratory and X-Ray Supplies Consisting of Glassware for Laboratory Use, Etc. The Clinical Laboratories, Inc., Phoenix, Ariz.
Filed July 31, 1950, Serial No. 601,492. Published May 19, 1953. Class 26.

578,987. Washed and Prepared Raw Vegetables Packaged as Single Variety or as a Mixture of Varieties. Mrs. Condles Salad Company, Salt Lake City, Utah.
Filed Aug. 18, 1950, Serial No. 602,372. Published May 19, 1953. Class 46.

578,988. Washed and Prepared Raw Vegetables Packaged as Single Variety or as a Mixture of Varieties. Mrs. Condles Salad Company, Salt Lake City, Utah.
Filed Aug. 18, 1950, Serial No. 602,373. Published May 26, 1953. Class 46.

578,989. Shifting Block Puzzles. The Plas-Trix Company, Brooklyn, N. Y.
Filed Aug. 23, 1950, Serial No. 602,628. Published June 2, 1953. Class 22.

578,990. Textile Spinning and Weaving Machines, Etc. Hordern-Richmond Limited, Haddenham, Buckinghamshire, England.
Filed Aug. 28, 1950, Serial No. 602,842. Published Mar. 24, 1953. Class 23.

578,991. Powdered Cocoa-Sugar Mixture. Lamont, Corliss & Company, New York, N. Y., now by change of name and merger The Nestlé Company, Inc., New York, N. Y.
Filed Oct. 31, 1950, Serial No. 605,661. Published May 19, 1953. Class 46.

578,992. Mops. The New York Association for the Blind, Inc., New York, N. Y.
Filed Nov. 7, 1950, Serial No. 606,033. Published Jan. 13, 1953. Class 29.

578,993. Ingredient for Paints, Varnishes, Enamels or Coating Composition—Namely, Styrenated Dehydrated Castor Oil. Woburn Chemical Corp. (N. J.), Harrison, N. J.
Filed Nov. 13, 1950, Serial No. 606,354. Published June 2, 1953. Class 16.

578,994. Cleanser and Pine Oil Cleanser Disinfectant. American Stores Company, Philadelphia, Pa.
Filed Nov. 24, 1950, Serial No. 606,843. Published June 2, 1953. Class 52.

578,995. Hand Operated Tools for Taking Up Wear in Chain-Saw Bars, Holding Claws for Use With Power Driven Saws. Hadston Machine Works, Callahan, Calif.
Filed Dec. 12, 1950, Serial No. 607,589. Published Feb. 3, 1953. Class 23.

578,996. Ready Mixed Oil Paints, Paint Enamels, and Varnishes. The Harrison Paint & Varnish Company, Canton, Ohio.
Filed Dec. 14, 1950, Serial No. 607,673. CONCURRENT USE. Published June 2, 1953. Class 16.

578,997. Varnish. Gilman Paint and Varnish Company, Chattanooga, Tenn.
Filed Dec. 20, 1950, Serial No. 607,897. Published June 2, 1953. Class 16.

578,998. Typewriter Ribbons and Carbon Paper. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio.
Filed Jan. 13, 1951, Serial No. 608,747. Published June 2, 1953. Class 11.

578,999. Venetian Blinds. Globe Venetian Blind Corporation, Baltimore, Md.
Filed Feb. 14, 1951, Serial No. 610,058. Published Apr. 21, 1953. Class 32.

579,000. Electronic Smoke Detecting and Burner Control Apparatus for Heating and Power Plants, Said Apparatus Incorporating a Photo-Electric Cell and Automatic Timing Mechanism Which Functions To Prevent Excessive Smoke Conditions. Heat-Timer Corporation, New York, N. Y.
Filed Mar. 1, 1951, Serial No. 610,685. Published June 2, 1953. Class 26.

579,001. Brief Bags and Cases. Ralph Rodgers, White Plains, N. Y.
Filed Mar. 24, 1951, Serial No. 611,742. Published June 2, 1953. Class 3.

579,002. Fresh Eggs and Coffee. Big Apple Super Markets, Inc., Atlanta, Ga.
Filed Mar. 30, 1951, Serial No. 611,997. Published May 19, 1953. Class 46.

579,003. Pneumatically Operated Instruments—Namely, Gauges, Etc. Infilco Incorporated, Tucson, Ariz.
Filed Apr. 19, 1951, Serial No. 612,863. Published May 26, 1953. Class 26.

579,004. Protective Finish Coatings—Namely, Waxes in Spirit and Water Emulsion, Oil Dressings, Paints and Synthetic Resin Containing Sealing, Waterproofing, and Primer Coating Compositions for Floors and Other Surfaces. Industrial Chemical Laboratories, Inc., Omaha, Nebr.
Filed May 4, 1951, Serial No. 613,511. Published June 9, 1953. Class 16.

579,005. Chilli Mix, Consisting of Chilli Pods, Comino, Oregano, Onion and Garlic Powder, Sold in Cans. Joseph F. De Frates, Springfield, Ill.
Filed May 21, 1951, Serial No. 614,137. Published May 26, 1953. Class 46.

579,006. Rubber Base Liquid Adhesives. Copydex Manufacturing Co. Ltd., London, England.
Filed May 29, 1951, Serial No. 614,492. Published June 2, 1953. Class 5.

579,007. Canned Vegetables and Canned Vegetable Juices. D. E. Winebrenner Company, Inc., Hanover, Pa.
Filed June 19, 1951, Serial No. 615,429. Published May 26, 1953. Class 46.

579,008. Barbecue Sauce, Chop Suey Sauce, French Dressing, Hot Dog Sauce, Etc. Halben Food Manufacturing Co., Inc., St. Louis, Mo.
Filed June 22, 1951, Serial No. 615,550. Published May 26, 1953. Class 46.

579,009. Candy. Dorothy Coleman, Chicago, Ill.
Filed Aug. 22, 1951, Serial No. 617,946. Published June 2, 1953. Class 46.

579,010. Pre-Packed and Bulk Ice Cream. Velvet Freeze, Inc., St. Louis, Mo.
Filed Sept. 4, 1951, Serial No. 618,437. Published May 26, 1953. Class 46.

579,011. Butter, Fresh Frozen and Dried Eggs, Fluid Milk, Buttermilk, Ice Cream, Ice Cream Tarts, Etc. Fairmont Foods Company, Omaha, Nebr.
Filed Sept. 12, 1951, Serial No. 618,697. Published May 26, 1953. Class 46.

579,012. Ready-Mixed Paints and Tinting Colors for Use in Paints or Other Similar Type Coatings. International Paint Company, Inc., New York, N. Y.
Filed Sept. 14, 1951, Serial No. 618,798. Published June 2, 1953. Class 16.

579,013. Electrical Conductivity Meters for Examining the Purity of Condensed Steam Samples, Etc. Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Filed Sept. 20, 1951, Serial No. 619,002. Published June 2, 1953. Class 26.

579,014. Water Treatment Apparatus of the Type Having a Reaction Tank, Etc. Automatic Pump & Softener Corporation, Rockford, Ill.
Filed Oct. 5, 1951, Serial No. 619,597. Published May 5, 1953. Class 23.

579,015. Mountings of Transparent Plastic for the Display of Objects, Which Objects Are Embedded in Such Plastic Mountings. Creative Plastics Corp., Stony Brook, N. Y.
Filed Oct. 9, 1951, Serial No. 619,744. Published May 26, 1953. Class 50.

579,016. Transparent Covers Made of Plastic Material To Cover Food Bowls. Whitewater Raincoat Co., Whitewater, Wis.
Filed Oct. 24, 1951, Serial No. 620,448. Published May 12, 1953. Class 50.

579,017. Ready-Mixed Paints, Enamels, and Varnishes. Vita-Var Corporation, Newark, N. J.
Filed Oct. 30, 1951, Serial No. 620,701. Published June 2, 1953. Class 16.

579,018. Range Feed and Protein-Enriched Range Feed. Burrus Mills, Incorporated, doing business under the name and style of "Liberty Mills" and "Burrus Feed Mills," San Antonio and Fort Worth, Tex.
Filed Nov. 26, 1951, Serial No. 621,655. Published May 26, 1953. Class 46.

579,019. Frozen Boned Turkey. Norbest Turkey Growers Association, Salt Lake City, Utah.
Filed Dec. 10, 1951, Serial No. 622,307. Published May 19, 1953. Class 46.

579,020. Wood Cased Lead Pencils. The Mallard Pencil Co., Inc., Georgetown, Ky.
Filed Dec. 11, 1951, Serial No. 622,343. Published Apr. 28, 1953. Class 37.

579,021. Fresh Canned Seafood—Namely, Shellfish Including Oysters, Clams, and Scallops. Phillips Seafood Packing Company, Rivalve, N. J.
Filed Dec. 11, 1951, Serial No. 622,352. Published May 19, 1953. Class 46.

579,022. Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa.
Filed Dec. 14, 1951, Serial No. 622,504. Published May 5, 1953. Class 23.

579,023. Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa.
Filed Dec. 14, 1951, Serial No. 622,505. Published May 5, 1953. Class 23.



579,024. Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa.
Filed Dec. 14, 1951, Serial No. 622,506. Published May 5, 1953. Class 23.

579,025. Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa.
Filed Dec. 14, 1951, Serial No. 622,507. Published May 5, 1953. Class 23.

579,026. Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa.
Filed Dec. 14, 1951, Serial No. 622,509. Published May 5, 1953. Class 23.

579,027. Goods in the Nature of Individual Articles and Sets of Articles of Flatware Made From Stainless Steel—Namely, Spoons, Forks, Knives. Otho M. Otte, doing business under the fictitious name Royal Allegheny Metal Wares, Tarentum, Pa.
Filed Dec. 14, 1951, Serial No. 622,510. Published May 5, 1953. Class 23.

579,028. Fishing Boxes Attached to the Garment of the User and Adapted for Carrying Artificial Flies. Edward J. Herbert, doing business under the firm name and style of Edroy Products Company, New York, N. Y.
Filed Dec. 15, 1951, Serial No. 622,541. Published June 2, 1953. Class 22.

579,029. Hand Luggage. Lambert Manufacturing Co., Trenton, N. J.
Filed Dec. 19, 1951, Serial No. 622,664. Published June 9, 1953. Class 3.

579,030. Cheese Coated Potato Chips. G. H. Edgar, Pittsburgh, Pa.
Filed Dec. 27, 1951, Serial No. 622,885. Published May 19, 1953. Class 46.

579,031. Boxed Stationery, Writing Paper, Carpet Paper, Etc. Miller and Rhoads, Incorporated, Richmond, Va.
Filed Dec. 10, 1951, Serial No. 623,116. Published Apr. 28, 1953. Class 37.

579,032. Periodical Publication. American Colortype Company, Chicago, Ill.
Filed Jan. 8, 1952, Serial No. 623,294. Published June 2, 1953. Class 38.

579,033. Kitchen Cabinets—Namely, Undersink, Dishwasher, Wall, Base, Linen, Broom, Corner, Revolving Shelf and Condiment Cabinets, What-Not Shelves, Standing Shelves, and Cabinet Counter Tops. Mullins Manufacturing Corporation, Salem and Warren, Ohio.
Filed Jan. 16, 1952, Serial No. 623,668. Published June 9, 1953. Class 32.

579,034. Filing Trays, Stands for Filing Trays, and Filing Cabinets. Stationers' Guild of America, Philadelphia, Pa.
Filed Jan. 16, 1952, Serial No. 623,687. Published June 2, 1953. Class 32.

579,035. Ice Cream Bar. Hygeia Milk Products Co., Harlingen, Tex.
Filed Jan. 21, 1952, Serial No. 623,837. Published May 26, 1953. Class 46.

579,036. Pneumatic Tired Road Rollers. Wm. Bros Boiler & Manufacturing Co., Minneapolis, Minn.
Filed Jan. 21, 1952, Serial No. 623,862. Published May 5, 1953. Class 23.

579,037. Ingredient for Addition to Adhesive Cements To Increase Flexibility and Adherence of said Cement. Crag Products, Inc., Newark, N. J.
Filed Jan. 24, 1952, Serial No. 624,026. Published June 2, 1953. Class 5.



579,038. Hobbing Machines. The Cleveland Hobbing Machine Company, Euclid, Ohio.
Filed Jan. 29, 1952, Serial No. 624,227. Published May 5, 1953. Class 23.

579,039. Bags Made of Paper Laminated Textile Material. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Feb. 15, 1952, Serial No. 624,994. Published June 9, 1953. Class 2.

579,040. Builders' Hardware—Namely, Locks, Latches, and Locking Bolts. Hollymade Hardware Mfg. Co., Los Angeles, Calif.
Filed Feb. 18, 1952, Serial No. 625,105. Published June 9, 1953. Class 25.

579,041. Chemical Composition in the Form of a Coating for Waterproofing and Preserving Automotive Ignition Systems. Chrome-Tec Distributing Company, Ferndale, Mich.
Filed Feb. 21, 1952, Serial No. 625,340. Published June 9, 1953. Class 16.

579,042. Thickener in Powder Form for Thickening Prepared or Ready Mixed Liquid Paints. Kurfees Paint Company, Louisville, Ky.
Filed Feb. 23, 1952, Serial No. 625,424. Published June 2, 1953. Class 16.

579,043. Publications and Prints Comprising Instruction Booklets, Bulletins, Etc. The Chek-Chart Corporation, Chicago, Ill.
Filed Mar. 17, 1952, Serial No. 626,561. Published June 2, 1953. Class 38.

579,044. Rubber Latex Base Paint. Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala.
Filed Mar. 20, 1952, Serial No. 626,742. Published June 2, 1953. Class 16.

579,045. Kit Containing Various Materials Used for Soldering Aluminum Cables—Namely, a Metal Cleaning Composition, a Nickel Plating Composition, a Soldering Flux, a Solder, and an Activator for the Nickel Plating Composition. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y.
Filed Mar. 22, 1952, Serial No. 626,868. Published May 12, 1953. Class 50.

579,046. Cigars. The Weideman Company, Cleveland, Ohio.
Filed Mar. 27, 1952, Serial No. 627,156. Published May 19, 1953. Class 17.

579,047. Lacquers and Paints. Duplicolor Products Company, Inc., Chicago, Ill.
Filed Mar. 29, 1952, Serial No. 627,256. Published June 2, 1953. Class 16.

579,048. Canned Fruits, Canned Vegetables, Canned Berries, Canned Pork and Beans, Canned Fish, Canned Shell Fish, Etc. The Oakford Company, Peoria, Ill.
Filed Apr. 1, 1952, Serial No. 627,402. Published June 2, 1953. Class 46.

579,049. Business Directory Inserts. Lee F. Heacock, Jr., doing business as Selector Company, New York, N. Y., assignor to Selector Production Corporation, Yonkers, N. Y., a corporation of New York.
Filed Apr. 2, 1952, Serial No. 627,443. Published June 2, 1953. Class 38.

579,050. Business Directory Inserts. Lee F. Heacock, Jr., doing business as Selector Company, New York, N. Y., assignor to Selector Production Corporation, Yonkers, N. Y., a corporation of New York.
Filed Apr. 2, 1952, Serial No. 627,444. Published June 2, 1953. Class 38.

579,051. Candy. Ponce Candy Industries, Ponce, P. R.
Filed Apr. 2, 1952, Serial No. 627,459. Published May 19, 1953. Class 46.

579,052. Pancake Flour, Corn Meal, Rye Graham Flour, Rye Flour, Wheat Graham Flour, and Whole Wheat Flour. Doud Milling Company, Denison, Iowa.
Filed Apr. 5, 1952, Serial No. 627,626. Published June 2, 1953. Class 46.

579,053. Bicycles. Monark Silver King, Inc., Chicago, Ill.
Filed Apr. 8, 1952, Serial No. 627,762. Published June 2, 1953. Class 19.

579,054. Grooved Phonograph Records. Tin Pan Alley, Inc., New York, N. Y.
Filed Apr. 9, 1952, Serial No. 627,850. Published June 9, 1953. Class 36.

579,055. Accordions. Traficante, Minneapolis, Minn.
Filed Apr. 14, 1952, Serial No. 628,069. Published June 9, 1953. Class 36.

579,056. Metal-Surface Coating Compositions for Eliminating Corrosion, Rusting, Tarnishing, Etc. Center Chemical Corporation, Cleveland, Ohio.
Filed Apr. 17, 1952, Serial No. 628,191. Published June 9, 1953. Class 16.

579,057. Dolls. Alexander Doll Company, Inc., New York, N. Y.
Filed Apr. 18, 1952, Serial No. 628,247. Published June 2, 1953. Class 22.

579,058. Liquid Synthetic Rubber Preparation Which on Being Catalyzed Is Adapted To Be Applied to a Surface To Form a Rubber Coating Thereon. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed Apr. 18, 1952, Serial No. 628,250. Published June 9, 1953. Class 16.

579,059. Shoe Lasts. Vulcan Corporation, Portsmouth, Ohio.
Filed Apr. 22, 1952, Serial No. 628,511. Published May 12, 1953. Class 50.

579,060. Ammonium Nitrate Fertilizer in the Form of Prills. Spencer Chemical Company, Kansas City, Mo.
Filed Apr. 23, 1952, Serial No. 628,584. Published June 2, 1953. Class 10.

579,061. Cotton Fabric Cut to Size as Used on Ironer Rolls, Etc. Southern Mills, Inc., Atlanta, Ga.
Filed May 1, 1952, Serial No. 629,063. Published June 9, 1953. Class 24.

579,062. Cigarettes. P. Lorillard Company, New York, N. Y.
Filed May 2, 1952, Serial No. 629,115. Published June 2, 1953. Class 17.

579,063. Eyeglass Frames. Zylite Products Co., Inc., New York, N. Y.
Filed May 2, 1952, Serial No. 629,139. Published June 2, 1953. Class 26.

579,064. Ammonium Nitrate Fertilizers in the Form of Prills. Spencer Chemical Company, Kansas City, Mo.
Filed May 5, 1952, Serial No. 629,221. Published June 2, 1953. Class 10.

579,065. Automatic Lathes and Machine-Tools. Manufacture de Machines du Haut-Rhin, Mulhouse Bourtzwiller, Haut-Rhin, France.
Filed May 6, 1952, Serial No. 629,247. Published Mar. 24, 1953. Class 23.

579,066. Tea, Coffee, Vinegar, Mustard, Catsup, Mayonnaise, Salad Dressing, Etc. Norman W. Hill, doing business as M. J. Laughery Company, Pittsburgh, Pa.
Filed May 7, 1952, Serial No. 629,314. Published May 26, 1953. Class 46.

579,067. Home Blackboard. Corn States Advertising Service, Inc., Des Moines, Iowa.
Filed May 10, 1952, Serial No. 629,478. Published May 26, 1953. Class 50.

579,068. Twirling Batons. H. & A. Selmer, Inc., Elkhart, Ind.
Filed May 10, 1952, Serial No. 629,525. Published June 9, 1953. Class 36.

579,069. Dispensing Cabinets for Toilet Tissue and Paper Towels. Crown Zellerbach Corporation, San Francisco, Calif.
Filed May 19, 1952, Serial No. 629,889. Published June 9, 1953. Class 2.

579,070. Rotary Air and Gas Compressors, and Pumps. Dresser Industries, Inc., Bradford, Pa., and Connersville, Ind.
Filed May 23, 1952, Serial No. 630,129. Published Mar. 24, 1953. Class 23.

579,071. Supply Cabinets. The DoAll Company, Des Plaines, Ill.
Filed May 28, 1952, Serial No. 630,395. Published June 2, 1953. Class 32.

579,072. Racks for Rifles. Colodonato Bros., Hazleton, Pa.
Filed June 2, 1952, Serial No. 630,579. Published June 9, 1953. Class 32.

579,073. Rotary Card Files. Spin-Dex, Inc., Skokie, Ill.
Filed June 6, 1952, Serial No. 630,859. Published May 12, 1953. Class 32.

579,074. Chairs. Sturgis Posture Chair Company, Sturgis, Mich.
Filed June 6, 1952, Serial No. 630,860. Published June 9, 1953. Class 32.

579,075. Fishing Leaders, Formed of a Nylon Covered Seven Strand Steel Wire. Strike Master, Inc., Minneapolis, Minn.
Filed June 9, 1952, Serial No. 630,970. Published June 2, 1953. Class 22.

579,076. Mono and Di-Glycerides, Used as an Ingredient in Vegetable Oil Food Products and/or Bakery Products. Anderson, Clayton & Co., Sherman, Tex., and elsewhere.
Filed June 16, 1952, Serial No. 631,233. Published May 26, 1953. Class 46.

579,077. Window Shade Rollers. The Columbia Mills, Inc., Syracuse, N. Y.
Filed June 23, 1952, Serial No. 631,604. Published June 2, 1953. Class 32.

579,078. Paint Thinners, Paint Oils, and Paint Diluents. Mobile Paint Manufacturing Co. of Delaware, Inc., Wilmington, Del., and Mobile, Ala.
Filed June 27, 1952, Serial No. 631,879. Published June 2, 1953. Class 16.

579,079. Newspaper Column. Dudley, Anderson and Yutzy, New York, N. Y.
Filed July 5, 1952, Serial No. 632,159. Published June 2, 1953. Class 38.

579,080. Chairs, Tables, Buffets, Beds, Desks, and Kitchen Cabinets. Meyer Greitzer, doing business as Edgeform Products Co., Los Angeles, Calif.
Filed July 5, 1952, Serial No. 632,160. Published June 9, 1953. Class 32.

579,081. Inflatable Boats and Inflatable Floats for Supporting a Plurality of Humans. New York Rubber Corporation, New York, N. Y.
Filed July 9, 1952, Serial No. 632,307. Published June 2, 1953. Class 19.

579,082. Grooved Phonograph Records. Rudolf Petrak, Greenwich, Conn.
Filed July 9, 1952, Serial No. 632,324. Published June 9, 1953. Class 36.

579,083. Pencils. Lorilles, Inc., Teaneck, N. J.
Filed July 14, 1952, Serial No. 632,529. Published Apr. 28, 1953. Class 37.

579,084. Toy Constituting a Noise-Maker, Specifically for Insertion Into Children's Garments. Beepers Novelty Corp., New York, N. Y.
Filed June 11, 1952, Serial No. 632,646. Published June 2, 1953. Class 22.

579,085. Adhesives of the Isocyanate Modified Polyester Type. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed July 28, 1952, Serial No. 633,149. Published June 2, 1953. Class 5.

579,086. Cookies and Crackers. United Biscuit Company of America, Chicago, Ill.
Filed July 28, 1952, Serial No. 633,180. Published June 2, 1953. Class 46.



579,087. Cookies and Crackers. United Biscuit Company of America, Chicago, Ill.
Filed July 28, 1952, Serial No. 633,181. Published June 2, 1953. Class 46.

579,088. Cookies and Crackers. United Biscuit Company of America, Chicago, Ill.
Filed July 28, 1952, Serial No. 633,182. Published June 2, 1953. Class 46.

579,089. Cookies and Crackers. United Biscuit Company of America, Chicago, Ill.
Filed July 28, 1952, Serial No. 633,183. Published June 2, 1953. Class 46.

579,090. Steer Feeds. Kasco Mills, Inc., Toledo, Ohio.
Filed Aug. 4, 1952, Serial No. 633,454. Published May 26, 1953. Class 46.

579,091. Collapsible Cardboard and Paper Boxes. Crook Paper Box Company, North Kansas City, Mo.
Filed Aug. 8, 1952, Serial No. 633,609. Published June 9, 1953. Class 2.

579,092. Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition, Coated or Printed Surface. Congoleum-Nairn Inc., Kearny, N. J.
Filed Aug. 9, 1952, Serial No. 633,664. Published June 9, 1953. Class 20.

579,093. Flexible Floor and Wall Coverings of the Felt Base and Linoleum Type Having Wear-Resistant Composition, Coated or Printed Surface. Congoleum-Nairn Inc., Kearny, N. J.
Filed Aug. 9, 1952, Serial No. 633,665. Published June 9, 1953. Class 20.

579,094. Laundry Appliances Namely, Washing Machines, and Machines and Appliances for Cleaning Textiles and Other Materials by Means of Organic Solvents. Dr. Alexander Wacker Gesellschaft für Elektrochemische Industrie, G. m. b. H., Munich, Bavaria, Germany, now by change of name Wacker-Chemie G. m. b. H.
Filed June 13, 1952, Serial No. 633,814. Published June 9, 1953. Class 24.

579,095. Internal Parting Agent Added to the Resin To Aid in Its Release From Molds. Garan Chemical Corporation, Los Angeles, Calif.
Filed Aug. 25, 1952, Serial No. 634,407. Published June 2, 1953. Class 1.

579,096. Parts for Fountain Pens, Mechanical Pencils and Ball Point Pens, Comprising Writing Points, Fluid Control Tubes, Clips, and Bands. W. A. Sheaffer Pen Company, Fort Madison, Iowa.
Filed Aug. 27, 1952, Serial No. 634,552. Published Apr. 28, 1953. Class 37.

579,097. Coal. Ben Hur Coal Co. Inc., Henryetta, Okla.
Filed Aug. 28, 1952, Serial No. 634,569. Published June 2, 1953. Class 1.

579,098. Canned Cooked Ham. Salomon Frenk, doing business as Firma D. van Creveld, Rotterdam, Netherlands.
Filed Aug. 29, 1952, Serial No. 634,638. Published June 9, 1953. Class 46.

579,099. Dehydrated Fruits, Jams, Jellies, Fruit Preserves, Canned Prune Juice, and Canned Fruit Juices Not Including Grape Juice, Pickles, and Table Syrup. Valley Evaporating Company, Yakima, Wash.
Filed Aug. 29, 1952, Serial No. 634,668. Published May 26, 1953. Class 46.

579,100. Artificial Fish-Lures. Martin E. Quyle, Stockton, Calif.
Filed Sept. 2, 1952, Serial No. 634,760. Published June 2, 1953. Class 22.

579,101. Receptacles Made of Plural-Ply Creped Paper—Namely, Self Sealing Bags and Case Liners. Cincinnati Industries Inc., Cincinnati, Ohio.
Filed Sept. 9, 1952, Serial No. 635,026. Published June 2, 1953. Class 2.

579,102. Burial Vaults. Samuel M. Smith, doing business as Galesburg Vault Company, Galesburg, Ill.
Filed Sept. 11, 1952, Serial No. 635,151. Published June 2, 1953. Class 2.

579,103. Artificial Fishing Lures. Floyd Oles, Inc., Tacoma, Wash.
Filed Sept. 12, 1952, Serial No. 635,195. Published June 2, 1953. Class 22.

579,104. Card Index File Cabinet. Wright and Company, Incorporated, Worcester, Mass.
Filed Sept. 12, 1952, Serial No. 635,210. Published June 2, 1953. Class 32.

579,105. Natural, Synthetic Rubber, or Rubberlike Powder or Pellets, Etc. General Latex & Chemical Corporation, Cambridge, Mass.
Filed Sept. 17, 1952, Serial No. 635,361. Published June 2, 1953. Class 1.

579,106. Sleds and Skis. S. L. Allen & Co., Inc., Philadelphia, Pa.
Filed Sept. 19, 1952, Serial No. 635,454. Published June 2, 1953. Class 22.

579,107. Lenses and the Carrying Cases Thereof. Photographic Importing & Distributing Corporation, Valley Stream, N. Y.
Filed Sept. 12, 1952, Serial No. 635,595. Published June 2, 1953. Class 26.

579,108. Apparatus in the Nature of a Scope Containing Means for Providing a Color Standard and a Color Sample and Used for Accurate Color Comparison of Cosmetics. John Robert Powers Products Co., Inc., Wilmington, Del., and New York, N. Y.
Filed Aug. 15, 1952, Serial No. 635,566. Published June 2, 1953. Class 26.

579,109. Bottle Caps. Nationwide Leather Products Corp., Los Angeles, Calif.
Filed Sept. 22, 1952, Serial No. 635,609. Published May 19, 1953. Class 50.

579,110. Passenger Automobiles and Structural Parts Thereof. Ford Motor Company Limited, London, England.
Filed Sept. 23, 1952, Serial No. 635,638. Published May 19, 1953. Class 19.

579,111. Passenger Automobiles and Structural Parts Thereof. Ford Motor Company Limited, London, England.
Filed Sept. 23, 1952, Serial No. 635,639. Published May 26, 1953. Class 19.

579,112. Passenger Automobiles and Structural Parts Thereof. Ford Motor Company Limited, London, England.
Filed Sept. 23, 1952, Serial No. 635,640. Published May 26, 1953. Class 19.

579,113. Crushed Granite Soil Conditioner. Potash Rock Co. of America, Lithonia, Ga.
Filed Sept. 24, 1952, Serial No. 635,716. Published May 26, 1953. Class 10.

579,114. Books Issued in a Series. The John C. Winston Company, Philadelphia, Pa.
Filed Sept. 24, 1952, Serial No. 635,731. Published June 2, 1953. Class 38.

579,115. Couches, Loveseats, and Beds. Parkway Furniture Manufacturing Company, Lawrence, Mass.
Filed Sept. 25, 1952, Serial No. 635,784. Published June 2, 1953. Class 32.

579,116. Phosphate Coating Composition for Producing a Jet Black Finish on Ferrous Surfaces. Parker Rust Proof Company, Detroit, Mich.
Filed Sept. 27, 1952, Serial No. 635,882. Published June 9, 1953. Class 16.

579,117. Mattresses. Roy L. Smith, doing business as Smith's Furniture Company, Corinth, Miss.
Filed Sept. 29, 1952, Serial No. 635,934. Published June 2, 1953. Class 32.

579,118. Cigarette Snuffers in the Nature of Ash Receivers. Melco Manufacturing Company, Chicago, Ill.
Filed Oct. 1, 1952, Serial No. 636,023. Published June 2, 1953. Class 8.

579,119. Motion Picture Films. Visual Department Church of Prophecy Marker Association, Cleveland, Tenn.
Filed Oct. 2, 1952, Serial No. 636,102. Published May 26, 1953. Class 26.

579,120. Paint in Paste Form Which Is Used as a Protective Coating for All Ferrous and Non-Ferrous Metals Exposed to Water in Motion. The Debevoise Company, Brooklyn, N. Y.
Filed Oct. 3, 1952, Serial No. 636,119. Published June 2, 1953. Class 16.

579,121. Adhesively Coated Paper Tape. Nashua Corporation, Nashua, N. H.
Filed Oct. 3, 1952, Serial No. 636,143. Published June 2, 1953. Class 5.

579,122. Loose Leaf Binders. Wilson Jones Company, Chicago, Ill.
Filed Oct. 8, 1952, Serial No. 636,364. Published Apr. 21, 1953. Class 37.

579,123. Inner Spring Mattresses. Re-Ly-On Products Company, Pittsburgh, Pa.
Filed Oct. 14, 1952, Serial No. 636,608. Published June 2, 1953. Class 32.

579,124. Portable Gasoline Can for Gas Motor Operated Model Toys. Price-Driscoll Corporation, New York, N. Y.
Filed Oct. 15, 1952, Serial No. 636,652. Published June 9, 1953. Class 2.

579,125. Coal. Weston Dodson & Company, Incorporated, Bethlehem, Pa.
Filed Oct. 15, 1952, Serial No. 636,667. Published June 2, 1953. Class 1.

579,126. Reclaimed Rubber. U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y.
Filed Oct. 16, 1952, Serial No. 636,753. Published June 2, 1953. Class 1.

579,127. Spice Racks, Napkin Holders, and Salt and Pepper Sets All Made of Plastic. Dapol Plastics, Inc., Worcester, Mass.
Filed Oct. 17, 1952, Serial No. 636,777. Published June 2, 1953. Class 2.

579,128. Natural Cellulosic Material Treated With Hydrocarbon, Wetting, and Releasing Agents for Incorporation Into Foundry Sands. International Minerals & Chemical Corporation, Chicago, Ill.
Filed Oct. 17, 1952, Serial No. 636,786. Published June 2, 1953. Class 1.

579,129. Grain Seeds—Namely, Wheat, Oats, Barley, and Rye; Field Seeds—Namely, Alfalfa, Timothy, and Clover and Soy Beans and Hybrid Corn. Pell-Earl Farms, Inc., Woodstock, Ill.
Filed Oct. 17, 1952, Serial No. 636,797. Published June 2, 1953. Class 1.

579,130. Coated Paper for Printing Purposes. Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis.
Filed Oct. 18, 1952, Serial No. 636,841. Published May 5, 1953. Class 37.

579,131. Letter Trays; Hinged Cover Card Cabinets; Filing Cabinets; Roll Top Stationery Cabinets; Made of Molded Plastic or Plastic and Metal, or Plastic, Metal, and Paper. Art Steel Sales Corporation, New York, N. Y.
Filed Oct. 23, 1952, Serial No. 637,029. Published June 9, 1953. Class 32.

579,132. Iron, Steel, and Iron Base Alloys. Vacuum Metals Corporation, Cambridge, Mass.
Filed Oct. 23, 1952, Serial No. 637,096. Published June 9, 1953. Class 14.

579,133. Beer. Blatz Brewing Company, Milwaukee, Wis.
Filed Oct. 25, 1952, Serial No. 637,166. Published June 2, 1953. Class 48.

579,134. Bone Meal and Dehydrated Poultry and Cow Manure for Use as Fertilizers. Howard Wong, doing business as European Coast Chemical House, New York, N. Y.
Filed Oct. 27, 1952, Serial No. 637,221. Published June 2, 1953. Class 10.

579,135. Bone Meal and Dehydrated Poultry and Cow Manure for Use as Fertilizers. Howard Wong, doing business as European Coast Chemical House, New York, N. Y.
Filed Oct. 27, 1952, Serial No. 637,224. Published June 2, 1953. Class 10.

579,136. Bird Seed. House of Huston, Inc., Miami, Fla.
Filed Oct. 27, 1952, Serial No. 637,256. Published May 26, 1953. Class 46.

579,137. Bottle Openers and Closers. James X. Green, doing business under the fictitious name and style of Key Manufacturing Co., Glendale, Calif.
Filed Oct. 28, 1952, Serial No. 637,274. Published May 5, 1953. Class 23.

579,138. Mattresses, Box Springs, Day Beds, Hollywood Beds, Sofa Beds, and Studio Couches. Bankers Securities Corporation, doing business as Snellenburgs, Philadelphia, Pa.
Filed Oct. 29, 1952, Serial No. 637,297. Published June 2, 1953. Class 32.

579,139. Ammunition—Namely, Fired Ammunition for Small Arms. Remington Arms Company, Inc., Bridgeport, Conn.
Filed Oct. 29, 1952, Serial No. 637,330. Published May 19, 1953. Class 9.

579,140. Fertilizers. Joseph D. Slater, doing business as Plant Marvel Laboratories, Chicago, Ill.
Filed Oct. 29, 1952, Serial No. 637,337. Published June 2, 1953. Class 10.

579,141. Fertilizers. Joseph D. Slater, doing business as Plant Marvel Laboratories, Chicago, Ill.
Filed Oct. 29, 1952, Serial No. 637,338. Published June 2, 1953. Class 10.

579,142. Seat Covers for Automobiles and Boats. Glostez Products, Inc., Chicago, Ill.
Filed Oct. 31, 1952, Serial No. 637,437. Published June 2, 1953. Class 19.

579,143. Reclining Chair Mechanisms and Parts Therefor. Kay Manufacturing Corporation, Brooklyn, N. Y.
Filed Oct. 31, 1952, Serial No. 637,448. Published May 26, 1953. Class 32.

579,144. Liquid Plant Food for Fertilizing House Plants, Garden Flowers, Vegetables, and Shrubs. The Rosewell Floral Company, Lincoln, Nebr.
Filed Nov. 1, 1952, Serial No. 637,503. Published May 26, 1953. Class 10.

579,145. Bread and Bread Mix. Bakers Associates Incorporated, Chicago, Ill.
Filed Nov. 3, 1952, Serial No. 637,531. Published May 26, 1953. Class 46.

579,146. Pressure Fluid Motors, Internal Combustion Motors, Jet Motors, Rocket Motors. Société Civile: Marep, Grosshans, Ollier (M. G. O.), Paris, France.
Filed Nov. 3, 1952, Serial No. 637,552. Published May 5, 1953. Class 23.

579,147. Bone Meal and Dehydrated Poultry and Cow Manure for Use as Fertilizers. Howard Wong, doing business as European Coast Chemical House, New York, N. Y.
Filed Nov. 3, 1952, Serial No. 637,558. Published June 2, 1953. Class 10.

579,148. Telescoping Inspection Mirrors. Wm. Steinen Mfg. Company, Newark, N. J.
Filed Nov. 5, 1952, Serial No. 637,669. Published May 5, 1953. Class 23.



579,149. Ladies' and Misses' Dresses, Skirts, Coats, Dress and Jacket Ensembles, Suits, Blouses, Slacks, Coveralls, and Jumpers. David Crystal, Inc., New York, N. Y.
Filed Nov. 7, 1952, Serial No. 637,759. Published June 9, 1953. Class 39.

579,150. Pipe Tobacco. Rothenberg & Schloss Cigar Company, Kansas City, Mo.
Filed Nov. 12, 1952, Serial No. 637,951. Published June 9, 1953. Class 17.

579,151. Printing Inks for Application to Plastic Film. Rarollte Chemical Co., Inc., Raritan, N. J.
Filed Nov. 14, 1952, Serial No. 638,100. Published June 2, 1953. Class 11.

579,152. Furniture—Namely, Costumers. The Reflectone Corporation, Stamford, Conn.
Filed Nov. 14, 1952, Serial No. 638,102. Published June 9, 1953. Class 32.

579,153. Women's Wearing Apparel in Misses', Ladies', Juniors', and Half Sizes—Namely, Dresses, Blouses, Shorts, Slacks, Jackets, Skirts, and Pedal Pushers. Bettermade Garment Company, Los Angeles, Calif.
Filed Nov. 18, 1952, Serial No. 638,239. Published June 2, 1953. Class 39.

579,154. Aluminum Foil in Packaged Roll and Flat Sheet Form. Follrapp, Inc., Seattle, Wash.
Filed Nov. 18, 1952, Serial No. 638,251. Published June 9, 1953. Class 14.

579,155. Aluminum Foil in Packaged Roll and Flat Sheet Form. Follrapp, Inc., Seattle, Wash.
Filed Nov. 18, 1952, Serial No. 638,252. Published June 9, 1953. Class 14.

579,156. Technical Publication. Laclede-Christy Company, St. Louis, Mo.
Filed Nov. 21, 1952, Serial No. 638,423. Published June 2, 1953. Class 38.

579,157. Books. Pocket Books, Inc., New York, N. Y.
Filed Nov. 21, 1952, Serial No. 638,437. Published June 2, 1953. Class 38.

579,158. Section of a Magazine Also Produced as a Separate Publication. Ziff-Davis Publishing Company, New York, N. Y.
Filed Nov. 24, 1952, Serial No. 638,562. Published June 2, 1953. Class 38.

579,159. Foam Rubber Bed Pillows, Cushions, Throw Pillows, and Foam Rubber Mattress Pads. New York Feather Co., Inc., New York and Brooklyn, N. Y.
Filed Nov. 25, 1952, Serial No. 638,600. Published June 9, 1953. Class 32.

579,160. Plant Foods. Joseph D. Slater, doing business as Plant Marvel Laboratories, Chicago, Ill.
Filed Nov. 28, 1952, Serial No. 638,740. Published June 2, 1953. Class 10.

579,161. Rulers, Calculating Rules, T-Squares, and Triangles. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J.
Filed Nov. 29, 1952, Serial No. 638,761. Published May 26, 1953. Class 26.

579,162. Cigarettes. Larus & Brother Company, Richmond, Va.
Filed Dec. 1, 1952, Serial No. 638,801. Published June 9, 1953. Class 17.

579,163. Turned and Bored Steel Bars. The Timken Roller Bearing Company, Canton, Ohio.
Filed Dec. 1, 1952, Serial No. 638,820. Published June 9, 1953. Class 14.

579,164. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,917. Published June 2, 1953. Class 26.

579,165. Bridges for Ophthalmic Mountings. Shuron Optical Company, Inc., Geneva, N. Y.
Filed Dec. 3, 1952, Serial No. 638,920. Published June 2, 1953. Class 26.

579,166. Cigarette Lighters. General Motors Corporation, Detroit, Mich.
Filed Dec. 5, 1952, Serial No. 639,033. Published June 2, 1953. Class 8.

579,167. Ready-Mixed Paint. The Patterson-Sargent Company, Cleveland, Ohio.
Filed Dec. 9, 1952, Serial No. 639,240. Published June 9, 1953. Class 16.

579,168. Fresh Grapes. Arrow Packing Co., Ezeter, Calif.
Filed Dec. 12, 1952, Serial No. 639,360. Published May 26, 1953. Class 46.

579,169. Magazine Issued Bi-Monthly. Close-Up, Inc., New York, N. Y., and St. Louis, Mo.
Filed Dec. 16, 1952, Serial No. 639,554. Published June 2, 1953. Class 38.

579,170. Magazine, Issued Three Times Each Year, for Readers Who Are Interested in Plastics Made From Cellulose. Hercules Powder Company, Wilmington, Del.
Filed Dec. 17, 1952, Serial No. 639,638. Published June 2, 1953. Class 38.

579,171. Hot Cake Flour. Leetra M. Poll, Sula, Mont.
Filed Dec. 17, 1952, Serial No. 639,655. Published May 26, 1953. Class 46.

579,172. Cardboard Chairs. Dallas Smith Corporation, Indianapolis, Ind.
Filed Dec. 18, 1952, Serial No. 639,721. Published June 9, 1953. Class 32.

579,173. Safes and Metal Structures in the Nature of Safes and Parts Thereof. Diebold, Incorporated, Canton, Ohio.
Filed Dec. 19, 1952, Serial No. 639,747. Published June 9, 1953. Class 25.

579,174. Greeting and Christmas Cards. Grant Publishing Corporation, Chicago, Ill.
Filed Dec. 19, 1952, Serial No. 639,754. Published June 2, 1953. Class 38.

579,175. Men's and Ladies' Gloves of Leather, Fabric, Wool, and Combinations Thereof. Hansen Glove Corporation, Milwaukee, Wis.
Filed Dec. 22, 1952, Serial No. 639,883. Published June 2, 1953. Class 39.

579,176. Automobile Springs. Laher Spring & Tire Corp., Oakland, Calif.
Filed Dec. 22, 1952, Serial No. 639,888. Published June 2, 1953. Class 19.

579,177. Felt Pads Used as Vibration Absorbing and Non-Skid Mountings. American Felt Company, Glenville, Conn.
Filed Dec. 24, 1952, Serial No. 639,978. Published May 26, 1953. Class 50.

579,178. Corsets, Girdles, Panty Girdles, Combination Brassières and Girdles, Garter Belts, Brassières, Bandeaux, and Women's Other Foundation Garments. S. Augstein & Co., Inc., College Point, N. Y.
Filed Dec. 29, 1952, Serial No. 640,097. Published June 9, 1953. Class 39.

579,179. Section in a Periodical Publication. Cowles Magazines, Inc., Des Moines, Iowa, and New York, N. Y.
Filed Dec. 29, 1952, Serial No. 640,104. Published June 2, 1953. Class 38.

579,180. Newspaper Section or Column. The Hearst Corporation, New York, N. Y.
Filed Dec. 31, 1952, Serial No. 640,212. Published June 2, 1953. Class 38.

579,181. Shampoo. Wildroot Company Inc., Buffalo, N. Y.
Filed Jan. 2, 1953, Serial No. 640,316. Published June 2, 1953. Class 52.

579,182. Girdles. Bidex Foundations, Inc., New York, N. Y.
Filed Jan. 5, 1953, Serial No. 640,324. Published June 2, 1953. Class 39.

579,183. Ladies' and Misses' Corsets, Coselettes, Girdles, Brassières, Bandeaux, and Panties. Femode Foundations, Inc., New York, N. Y.
Filed Jan 8, 1953, Serial No. 640,506. Published June 2, 1953. Class 39.

579,184. Hair Nets. Gaylord Products, Incorporated, Chicago, Ill.
Filed Jan. 8, 1953, Serial No. 640,509. Published June 2, 1953. Class 39.

579,185. Ladies' and Misses' Brassières, Bandeaux, and Girdles. Imperial Brassiere Corp., New York, N. Y.
Filed Jan. 8, 1953, Serial No. 640,516. Published June 2, 1953. Class 39.

579,186. Brassières. Hollywood-Maxwell Company, Los Angeles, Calif.
Filed Jan. 12, 1953, Serial No. 640,633. Published June 9, 1953. Class 39.

579,187. Ladies' and Misses' Dresses, Dress Ensembles, Suits, Jackets, Skirts, and Coats. Davidow, Inc. Sportswear, New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,672. Published June 9, 1953. Class 39.

579,188. Ladies' and Misses' Dresses, Dress Ensembles, Suits, Jackets, Skirts, and Coats. Davidow, Inc. Sportswear, New York, N. Y.
Filed Jan. 13, 1953, Serial No. 640,673. Published June 9, 1953. Class 39.

579,189. Food Seasoning Comprised of Salt, Garlic, Spices, and Herbs. Ruth N. Meyer, doing business as R. N. Meyer Co., Beverly Hills, Calif.
Filed Jan. 16, 1953, Serial No. 640,865. Published May 26, 1953. Class 46.

579,190. Fruit Crates. O. J. Briggs Lumber Company, White Cloud, Mich.
Filed Jan. 19, 1953, Serial No. 640,907. Published June 9, 1953. Class 2.

579,191. Food Colors. H. Kohnstamm & Co., Inc., New York, N. Y.
Filed Jan. 19, 1953, Serial No. 640,940. Published May 26, 1953. Class 46.

579,192. One-Meal Serving Size Ready-To-Cook Fresh Frozen Turkeys. M. E. Klinke, doing business as Klinke Hatchery, Madison, Wis.
Filed Jan. 21, 1953, Serial No. 641,059. Published June 2, 1953. Class 46.

579,193. Night Latches, Locks, and Parts Thereof. Earle Hardware Manufacturing Company, Reading, Pa.
Filed Feb. 3, 1953, Serial No. 641,675. Published June 9, 1953. Class 25.

579,194. Golf Clubs. The Associated Merchandising Corporation, New York, N. Y.
Filed Feb. 9, 1953, Serial No. 641,894. Published June 2, 1953. Class 22.

579,195. Chili Powder and Paprika. Chili Products Corporation Ltd., Los Angeles, Calif.
Filed Feb. 13, 1953, Serial No. 642,198. Published June 2, 1953. Class 46.

579,196. Tobacco and Tobacco Products—Namely, Smoking and Chewing Tobacco. Larus & Brother Company, Richmond, Va.
Filed Feb. 17, 1953, Serial No. 642,359. Published June 2, 1953. Class 17.

579,197. Steel in Unfinished Form. Crucible Steel Company of America, New York, N. Y.
Filed Feb. 24, 1953, Serial No. 642,624. Published June 2, 1953. Class 14.

579,198. Wire Wheel Discs for Automotive Vehicles. Gaylord-Shelton, Inc., Chicago, Ill.
Filed Mar. 2, 1953, Serial No. 642,966. Published June 2, 1953. Class 19.

579,199. Wire Wheel Discs for Automotive Vehicles. Gaylord-Shelton, Inc., Chicago, Ill.
Filed Mar. 2, 1953, Serial No. 642,967. Published June 2, 1953. Class 19.

### Service Marks

579,200. Leasing of Vending Machines on a Contract Basis. Automatic Canteen Company of America, Chicago, Ill.
Filed Feb. 18, 1950, Serial No. 592,691. Published June 2, 1953. Class 100.

579,201. Stimulating Interest in the History, Civilization, Customs, Culture, Trades, and Skills of the American Indian and Emphasizing Particularly the Legends and the Dances of the Indian Through Displays, Lectures, and Demonstrations. Haenónis Indian Dancers, Glenbrook, Conn.
Filed Sept. 29, 1950, Serial No. 604,888. Published May 26, 1953. Class 100.

579,202. Oil-Well Services—Namely, Detecting the Entry of Fluids Into a Well Bore. Stanolind Oil and Gas Company, Tulsa, Okla.
Filed Mar. 26, 1951, Serial No. 611,815. Published June 2, 1953. Class 100.

579,203. Bleaching, Mercerizing, Dyeing, Printing, and Shrinking of Textile Fabrics. Cold Spring Bleachery, Yardley, Pa.
Filed Feb. 15, 1952, Serial No. 625,000. Published May 26, 1953. Class 106.

579,204. Gathering and Distributing Basic Information About Health To Stimulate People To Improve Their Own Health Standards. Health Information Foundation, New York, N. Y.
Filed Feb. 29, 1952, Serial No. 625,737. Published June 2, 1953. Class 100.

579,205. General Cleaning Services Such as Carpets, Upholstery, Draperies, and General Household Fabric Materials and Articles of General Wearing Apparel. Wade, Wenger & Associates, Inc., Chicago, Ill.
Filed Apr. 26, 1952, Serial No. 628,799. Published June 2, 1953. Class 103.

579,206. Construction of Chemical Plants and Petroleum Refining Process Units and Associated Equipment. The Lummus Company, New York, N. Y.
Filed June 6, 1952, Serial No. 630,849. Published May 26, 1953. Class 103.

579,207. Pest Extermination Service in Buildings and Other Structures by Chemicals and Traps. Robert Owen Williams, doing business under the name of R. O. Williams Co., Evansville, Ind.
Filed Aug. 20, 1952, Serial No. 634,228. Published May 26, 1953. Class 103.

579,208. Maintaining and Repairing of Railroad Freight and Express Cars and Automotive Vehicles. General American Transportation Corporation, Chicago, Ill.
Filed Sept. 25, 1952, Serial No. 635,760. Published May 26, 1953. Class 103.

579,209. Finishing of Textile Fabrics or the Like, for the production of Texturized Effects Therein. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed Nov. 1, 1952, Serial No. 637,508. Published June 2, 1953. Class 106.

### Collective Marks

579,210. Organizing Chapters in a National Collegiate Fraternity; Maintaining Membership Therein and Furthering the Civic and Educational Ideals Thereof. The Chi Phi Fraternity, Atlanta, Ga.
Filed May 4, 1950, Serial No. 596,833. Published Apr. 28, 1953. Class 100.

579,211. Recruiting and Pledging Prospective Members of the Chapters of a National Collegiate Fraternity. Beta Theta Pi, Oxford, Ohio.
Filed Dec. 3, 1951, Serial No. 621,998. Published June 2, 1953. Class 100.

# ACT OF 1946, SUPPLEMENTAL REGISTER

**These registrations are not subject to opposition.**

579,212. (Class 46. Foods and Ingredients of Foods.) Rich Products Corp., Buffalo, N. Y. Filed Mar. 9, 1948. Serial No. 551,588.

RICH'S *Whip Topping*

For Liquid Food Preparation, Including as Its Principal Ingredients, Vegetable Fat, Soy Protein, Carbohydrates and Water and Capable of Being Aerated To Form a Stable Foam.
Claims use since Mar. 30, 1945.

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579,213. (Class 26. Measuring and Scientific Appliances.) The National Acme Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Aug. 1, 1949; amended to application, Supplemental Register, Aug. 14, 1952, Serial No. 582,797.

ElecTRU count

For Solenoid Operated Apparatus for Registering the Number of Masses or Things Moving Past a Station and for Keeping an Accurate Account Thereof.
Claims use since June 14, 1949.

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579,214. (Class 26. Measuring and Scientific Appliances.) Charles W. Zwirn, doing business under the name and style of Televisor Co., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 27, 1950; amended to application, Supplemental Register, June 26, 1953, Serial No. 596,766.

TELEVISOR

Applicant claims ownership of Registration No. 539,915.
For Moving Picture Screens and Slides.
Claims use since Sept. 3, 1940.

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579,215. (Class 2. Receptacles.) Fount-Wip, Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, May 5, 1950; amended to application, Supplemental Register, June 18, 1953, Serial No. 596,908.

Fount wip

For Empty Refillable Valved Pressure Containers for Food.
Claims use since Apr. 27, 1950.

579,216. (Class 19. Vehicles.) The Cleveland Welding Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, May 31, 1950; amended to application, Supplemental Register, Apr. 7, 1951, Serial No. 598,354.

SMARTEST TO OWN
SAFEST TO RIDE

For Bicycles.
Claims use since March 1950.

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579,217. (Class 26. Measuring and Scientific Appliances.) Bar-Ray Products, Incorporated, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Sept. 5, 1950; amended to application, Supplemental Register, Aug. 6, 1952, Serial No. 604,337.

ADD-A-TANK

For Developing Tanks Made of Metal.
Claims use since Feb. 10, 1950.

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579,218. (Class 21. Electrical Apparatus, Machines, and Supplies.) Associated Patentees, Inc., Ampere, N. J. Original filed, act of 1946, Principal Register, Nov. 3, 1950; amended to application, Supplemental Register, July 3, 1953, Serial No. 605,838.

MULTI-STOP

For Electrical Control Apparatus Consisting of a Switch or Switches and Switch Controlled Solenoid for the Disengaging of an Industrial Machine Clutch.
Claims use since July 25, 1950.

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579,219. (Class 26. Measuring and Scientific Appliances.) Specholder Sales Company, Inc., Allendale, N. J. Original filed, act of 1946, Principal Register, Apr. 2, 1951; amended to application, Supplemental Register, Mar. 19, 1952, Serial No. 612,143.

SPECHOLDER

For Holder for Eyeglasses Attachable to a Supporting Surface.
Claims use since Apr. 1, 1950.

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579,220. (Class 24. Laundry Appliances and Machines.) Walter P. Carlson, doing business as Carlson Products Co., St. Louis, Mo., assignor to Carlson Products, Inc., St. Louis County, Mo., a corporation of Missouri. Original filed, act of 1946, Principal Register, Apr. 6, 1951; amended to application, Supplemental Register, Mar. 10, 1952, Serial No. 612,306.

*Sta-Put*

For Ironing Board Cover Fasteners.
Claims use since Nov. 2, 1949.

579,221. (Class 21. Electrical Apparatus, Machines, and Supplies.) Albert Louis Smith, doing business as Smith Tape Recording Co., Abilene, Tex. Original filed, act of 1946, Principal Register, June 8, 1951; amended to application, Supplemental Register, Mar. 20, 1953, Serial No. 614,963.

"Listen to the Stars"

YOUR "BONUS ENTERTAINMENT"

For Magnetic Recording Tape With Sound Recordings Thereon for Sound Recording Machines.
Claims use since June 15, 1948.

579,222. (Class 12. Construction Materials.) The Mengel Company, Louisville, Ky. Original filed, act of 1946, Principal Register, July 21, 1951; amended to application, Supplemental Register, Aug. 5, 1952, Serial No. 616,772.

STANDARDOR

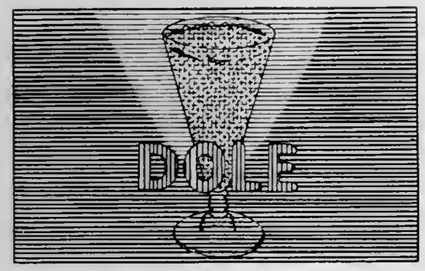
For Flush Doors, Made From Veneers Adhered to Spaced Cores so as To Provide Air Spaces Adjacent to the Cores and the Veneer Faces, Used for Houses.
Claims use since Aug. 7, 1950.

579,223. (Class 26. Measuring and Scientific Appliances.) Comptone Company, Ltd., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 31, 1951; amended to application, Supplemental Register, Jan. 14, 1953, Serial No. 618,289.

Neutralens

For Sun Glasses, Eyeglasses, Spectacles, Spectacle Frames, Temples, and Lenses.
Claims use since July 2, 1951.

579,224. (Class 46. Foods and Ingredients of Foods.) Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company, Honolulu, Territory of Hawaii, and San Francisco, Calif. Original filed, act of 1946, Principal Register, Jan. 28, 1952; amended to application, Supplemental Register, Mar. 24, 1953, Serial No. 624,196.




The drawing is lined to indicate light blue, dark blue, red, and yellow. Applicant claims ownership of Registrations Nos. 85,113, 302,518, and others.
For Frozen Concentrated Pineapple Juice.
Claims use since Dec. 26, 1951.

579,225. (Class 26. Measuring and Scientific Appliances.) The Lufkin Rule Company, Saginaw, Mich. Original filed, act of 1946, Principal Register, Feb. 8, 1952; amended to application, Supplemental Register, Feb. 5, 1953, Serial No. 624,692.

LUFKIN Ni-CLAD

Applicant claims ownership of Registration No. 518,890.
For Measuring Tapes.
Claims use since Dec. 12, 1951.

579,226. (Class 2. Receptacles.) C. Albert Sauter Company, Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Feb. 13, 1952; amended to application, Supplemental Register, June 1, 1953, Serial No. 624,901.

taper - pak

For Paper Boxes.
Claims use since Oct. 15, 1951.

579,227. (Class 46. Foods and Ingredients of Foods.) Hickory Smoked Cheese Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 15, 1952; amended to application, Supplemental Register, Jan. 21, 1953, Serial No. 626,510.




No claim is made to the words "It's Smoked. It's Cured, It's Delicious! Kindless, Eat It All!" and "Hickory Cheese."
For Cheese Bars.
Claims use since Nov. 17, 1947.

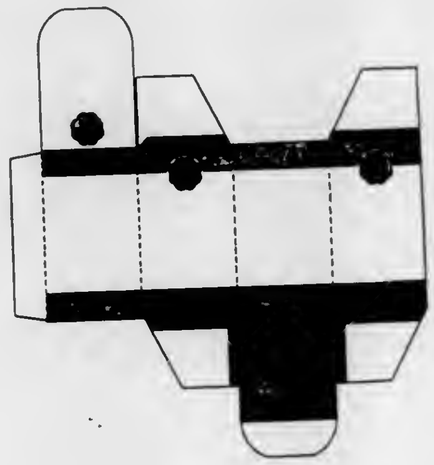
579,228. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) The Goodyear Tire & Rubber Company, Akron, Ohio. Original filed, act of 1946, Principal Register, June 13, 1952; amended to application, Supplemental Register, June 26, 1953, Serial No. 631,157.

DOUBLE-SAFE

For Inner Tubes for Tires.
Claims use since May 21, 1952.



579,229. (Class 18. Medicines and Pharmaceutical Preparations.) Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, June 19, 1952; amended to application, Supplemental Register, May 18, 1953, Serial No. 631,402.



The drawing is lined for blue. Applicant claims ownership of Registrations Nos. 503,018 and 501,762.
For Chemotherapeutic Agents and Antibiotics.
Claims use since October 1947.

579,230. (Class 2. Receptacles.) Cardinal China Co., Carteret, N. J. Original filed, act of 1946, Principal Register, June 20, 1952; amended to application, Supplemental Register, Apr. 1, 1953, Serial No. 631,464.




For Table Dishes Made of Plastic.
Claims use since February 1952.

579,231. (Class 2. Receptacles.) Dempster Brothers, Incorporated, Knoxville, Tenn. Filed June 30, 1952, Serial No. 631,979.

MULTIKARRY

For Container Units, Comprising a Plurality of Boxes Nested Into a Larger Container, for Collecting, Transporting, and Dumping Bulk Materials.
Claims use since May 25, 1951.

579,232. (Class 46. Foods and Ingredients of Foods.) Benjamin P. Basile, doing business as Basile's Italian Foods, Rockford, Ill. Original filed, act of 1946, Principal Register, July 24, 1952; amended to application, Supplemental Register, June 9, 1953, Serial No. 632,975.

Basile's

For Complete Spaghetti Dinner, the Main Ingredients of Which Are Spaghetti, Ground Beef, and Cheese.
Claims use since May 8, 1952.

579,233. (Class 6. Chemicals and Chemical Compositions.) Irving M. Spiro, doing business as Statite Waterproofing Co., Palisades Park, N. J. Original filed, act of 1946, Principal Register, Apr. 23, 1952; amended to application, Supplemental Register, Apr. 30, 1953, Serial No. 634,386.

STATITE

For Waterproofing Materials—Namely, Cement and Concrete Additives, for Imparting Water Repellent, Accelerating, Hardening, and Anti-Freeze Protection.
Claims use since Dec. 1, 1940.

579,234. (Class 6. Chemicals and Chemical Compositions.) Ferguson Fumigants, Inc., Ferguson, Mo. Original filed, act of 1946, Principal Register, Oct. 15, 1952; amended to application, Supplemental Register, June 22, 1953, Serial No. 636,635.

DAWSON

For Fumigant.
Claims use since Oct. 24, 1949.

579,235. (Class 9. Explosives, Firearms, Equipments, and Projectiles.) The Marlin Firearms Company, New Haven, Conn. Original filed, act of 1946, Principal Register, Feb. 26, 1953; amended to application, Supplemental Register, June 29, 1953, Serial No. 642,825.

MICRO-GROOVE

For Rifles, Pistols, Machine Guns, and Barrels Therefor.
Claims use since on or about May 16, 1952.

579,236. (Class 22. Games, Toys, and Sporting Goods.) Thomas B. Semans, Jr., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 10, 1953; amended to application, Supplemental Register, May 27, 1953, Serial No. 645,077.

LONDON

For Golf Balls.
Claims use since June 13, 1950.

# TRADE-MARK REGISTRATIONS RENEWED

40,144. AUDITORIUM. Registered Apr. 21, 1903. Auditorium Pharmacy Company. Re-renewed Apr. 21, 1953, to Carrel, Ltd., Chicago, Ill., a corporation of Illinois. Lotions, Especially Cream for Softening and Beautifying the Skin. Class 51.

40,681. "P. D." AND DESIGN. Registered June 30, 1903. Peder Devold, Aalesund, Norway. Re-renewed June 30, 1953, to Chas. L. Hulsking & Co., Inc., Brooklyn, N. Y., a corporation of New York. Cod-Liver Oil. Class 18.

41,253. REPRESENTATION OF CIRCULAR DESIGN WITH CROSSBAR. Registered Oct. 6, 1903. Union Carbide Company, Chicago, Ill., and New York, N. Y. Re-renewed Oct. 6, 1953, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York. Calcium Carbid. Class 6.

88,792. TASCO. Registered Oct. 22, 1912. T. A. Shaw and Co. Re-renewed Oct. 22, 1952, to T. A. Shaw & Co., Chicago, Ill., a corporation of Illinois. Cotton Piece Goods. Class 42.

88,832. JUNO. Registered Oct. 29, 1912. Berndt & Co. Re-renewed Oct. 29, 1952, to C. M. Berndt Company, Inc., Baltimore, Md., a corporation of Maryland. South American Tea. Class 46.

89,045. OZONAIR. Registered Jan. 21, 1913. Ozonair Limited, Westminster, London, England. Re-renewed Jan. 21, 1953, to Ozonair Limited, Kent, England, a corporation organized under the laws of Great Britain. Electrical Apparatus for Producing and Utilizing Electric Discharges, Consisting of Dynamo-Electric Machines, Electric-Current Converters, Electric-Current Transformers, Electric Accumulators. Class 21.

91,749. STERLING. Registered May 27, 1913. Aonin & Co., New York, N. Y., a corporation of New York. Re-renewed May 27, 1953. Bunting. Class 42.

91,802. "PORTER'S NONE SUCH LAXATIVE" ETC. AND DESIGN. Registered May 27, 1913. The George H. Rundle Company, Piqua, Ohio, a corporation of Ohio. Re-renewed May 27, 1953. Remedy for Constipation. Class 18.

92,038. EAGLE. Registered June 17, 1913. Borden's Condensed Milk Co. Re-renewed June 17, 1953, to The Borden Company, New York, N. Y., a corporation of New Jersey. Ice-Cream. Class 46.

93,139. DAINTYMAID. Registered Aug. 19, 1913. Ward Baking Company, New York, N. Y., a corporation of New York. Re-renewed Aug. 19, 1953. Bread, Rolls, Biscuits, Cakes, Cookies, and Crackers. Class 46.

93,158. „HERKULES". Registered Aug. 26, 1913. Franz Bonfigt, Aachen, Germany. Re-renewed Aug. 26, 1953, to Pniger, Bonfigt & Co., Koeln and Ithein, Germany, a firm of Germany. Fret-Saws for Gold and Silver Smiths. Class 23.

93,566. STANOLITE. Registered Sept. 23, 1913. Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Re-renewed Sept. 23, 1953. Asphalt. Class 12.

93,658. GALVANOID. Registered Oct. 14, 1913. American Wire Fabrics Company, Chicago, Ill., and Clinton, Iowa. Re-renewed Oct. 14, 1953, to American Wire Fabrics Corporation, New York, N. Y., a corporation of Delaware. Screen Wire-Cloth. Class 13.

93,770. PAROLITE. Registered Oct. 14, 1913. Standard Oil Company, Whiting, Ind. Re-renewed Oct. 14, 1953, to Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Petroleum-Pitch. Class 1.

94,149. CIRCLE ENCLOSING REPRESENTATION OF HUMAN FOOT. Registered Nov. 11, 1913. American Felt Company, Boston, Mass. Re-renewed Nov. 11, 1953, to American Felt Company, Glenville, Conn., a corporation of Massachusetts. Felt in the Piece. Class 50.

94,215. "POLLY AND HER PALS" AND DESIGN. Registered Nov. 11, 1913. Star Company. Re-renewed Nov. 11, 1953, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Newspaper Section Published Periodically. Class 38.

94,235. "SWEETHEART" AND DESIGN. Registered Nov. 18, 1913. Frank Gaius Burke. Re-renewed Nov. 18, 1953, to Manhattan Soap Company, Inc., New York, N. Y., a corporation of New York. Talcum Powder. Class 51.

296,341. NEOPEPTONE. Registered Aug. 2, 1932. Difco Laboratories Incorporated, Detroit, Mich., a corporation of Michigan. Renewed Aug. 2, 1952. New Bacteriological Peptone Having Especially High Growth Stimulating Properties. Class 18.

298,049. JUCYPAK. Registered Oct. 11, 1932. Florida Citrus Exchange. Renewed Oct. 11, 1952, to Florida Citrus Exchange, Tampa, Fla., a corporation of Florida. Canned Citrus Fruits. Class 46.

299,716. "F F FLORIDA'S FINEST" ETC. Registered Dec. 20, 1932. Florlorange Canneries, Inc. Renewed Dec. 20, 1952, to Frank Burkart, doing business as Burkhart Products, Mount Dora, Fla. Canned Citrus Fruits and Canned Citrus Fruit Juices for Food Purposes. Class 46.

299,990. THE GUEST BOOK. Registered Jan. 3, 1933. Brown and Findelsen, Inc., Miami, Fla. Renewed Jan. 3, 1953, to The Miami Visitor Publishing Company, Inc., Miami Beach, Fla., a corporation of Florida. Periodical. Class 38.

300,401. STERILOMETER. Registered Jan. 17, 1933. Sterilometer Laboratories. Renewed Jan. 17, 1953, to Sterilometer Laboratories, Los Angeles, Calif., a corporation of California. Controls Comprising a Pyro-Recording Composition Disposed on Cardboard and Reacting at Critical Temperature To Produce a Change in Color and Thereby Provide a Visual Record. Class 26.

300,478. JUST WONDERFUL! Registered Jan. 24, 1933. John H. Wilkins Company, Washington, D. C., a corporation of Delaware. Renewed Jan. 24, 1953. COFFEE. Class 46.

301,752. "THE LOCKWEDGE SHOE" AND DESIGN. Registered Mar. 14, 1933. Perth Shoe Company Limited, Perth, Ontario, Canada. Renewed Mar. 14, 1953, to Lockwedge International Incorporated, Columbus, Ohio, a corporation of Ohio. Boots, Shoes, Slippers, and Sandals Made of Leather, Fabric or Combinations Thereof. Class 39.

301,945. "PERISEAL" ETC. AND DESIGN. Registered Mar. 21, 1933. The Perry Robinson Corporation. Renewed Mar. 21, 1953, to Lawrence R. Bradley, New York, N. Y. Chemical Composition, Used as a Vehicle for Paints, and/or in Conjunction With Other Vehicles, Etc. Class 16.

303,254. "S. P. I. G. A." AND DESIGN. Registered May 16, 1933. S. A. Pastificio Nicola Delfino & Figli, Pescara-Riviera di Castellamare, Italy. Renewed May 16, 1953, to Pastificio Spiga Società per Azioni, Pescara, Italy, a joint stock company organized under the laws of Italy. Alimentary Pastes (Macaroni, Spaghetti, and the Like). Class 46.





303,450. CO-OP. Registered May 23, 1933. Union Oil Company, Parsons, Kans., and North Kansas City, Mo. Renewed May 23, 1953, to National Cooperatives, Incorporated, Chicago, Ill., a corporation organized under the District of Columbia. Cooperative Association Act of July 10, 1940. Storage (Wet Cell) Batteries. Class 21.

303,472. WOODLAND. Registered May 23, 1933. Standard Nut Margarine Co., Indianapolis, Ind. Renewed May 23, 1953, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Oleomargarine. Class 46.

303,698. "MAYTIME" AND DESIGN. Registered June 6, 1933. Standard Nut Margarine Co., Indianapolis, Ind. Renewed June 6, 1953, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Oleomargarine. Class 46.

303,812. GLOW TONE. Registered June 6, 1933. The Marietta Paint & Color Co., Marietta, Ohio. Renewed June 6, 1953, to American-Marietta Company, Chicago, Ill., a corporation of Illinois. Water and Wear Resisting Finish for Interior Walls, Wood-Work, and Furniture. Class 16.

303,870. "X." Registered June 13, 1933. Edward R. Tolfree, doing business as "X" Laboratories. Renewed June 13, 1953, to "X" Laboratories, Inc., New York, N. Y., a corporation of New York. Dry Cleaner. Class 52.

303,871. REPRESENTATION OF SMALL BOY. Registered June 13, 1933. Edward R. Tolfree, doing business as "X" Laboratories. Renewed June 13, 1953, to "X" Laboratories, Inc., New York, N. Y., a corporation of New York. Dry Cleaner. Class 52.

303,957. GOLDBLATT'S BOND. Registered June 13, 1933. Goldblatt Bros., Inc., Chicago, Ill., a corporation of Illinois. Renewed June 13, 1953. Cigars. Class 17.

304,132. WILD WEST. Registered June 20, 1933. Gum, Inc. Renewed June 20, 1953, to Haelan Laboratories, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Chewing Gum. Class 46.

304,152. SECRET DE JEURELLE. Registered June 20, 1933. Maison Jeurelle, Inc., Chicago, Ill. Renewed June 20, 1953, to Seventeen, Rye, N. Y., a partnership. Perfume. Class 51.

304,241. "RIO BLADES" ETC. AND DESIGN. Registered June 27, 1933. Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn. Renewed June 27, 1953, to Standard Blade Co., Inc., New York, N. Y., a corporation of New York. Razors and Razor Blades. Class 23.

304,280. WIZARD. Registered June 27, 1933. Wizard, Inc., Chicago, Ill. Renewed June 27, 1953, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Insecticides. Class 6.

304,301. "VIM BLADES" ETC. AND DESIGN. Registered June 27, 1933. Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn. Renewed June 27, 1953, to Standard Blade Co., Inc., New York, N. Y., a corporation of New York. Razors and Razor Blades. Class 23.

304,302. "SPAN" ETC. AND DESIGN. Registered June 27, 1933. Standard Safety Razor Corporation, Wilmington, Del., and East Norwalk, Conn. Renewed June 27, 1953, to Standard Blade Co., Inc., New York, N. Y., a corporation of New York. Razors and Razor Blades. Class 23.

304,789. IRONHOSE. Registered July 18, 1933. A. V. Victorius & Co., Inc. Renewed July 18, 1953, to Elting Brothers, Inc., New York, N. Y., a corporation of New York. Men's, Women's, and Children's Hosiery. Class 39.

304,992. PARAPACK. Registered July 25, 1933. Georg Häsemann. Renewed July 25, 1953, to Agathe Böhme, nee Reinhardt, Bremen, Germany. Medicine for External Human Use for the Treatment of Rheumatism, Sciatica, and Similar Ailments. Class 18.

305,237. "DOMINO" AND DESIGN. Registered Aug. 8, 1933. Larus & Brother Company, Richmond, Va., a corporation of Virginia. Renewed Aug. 8, 1953. Cigarettes. Class 17.

305,239. DOMINO. Registered Aug. 8, 1933. Larus & Brother Company, Richmond, Va., a corporation of Virginia. Renewed Aug. 8, 1953. Plug Tobacco and Cigarettes. Class 17.

305,257. GRAND SLAM. Registered Aug. 8, 1933. Larus & Brother Company, Richmond, Va., a corporation of Virginia. Renewed Aug. 8, 1953. Smoking Tobacco. Class 17.

305,415. RAT-SCAT. Registered Aug. 15, 1933. The C. B. Dolge Company, Westport, Conn. Renewed Aug. 15, 1953, to Fulton Bag and Cotton Mills, Atlanta, Ga., a corporation of Georgia. Preparation for Exterminating Rodents. Class 6.

305,486. ERUSTO. Registered Aug. 15, 1933. Becton, Dickinson and Company, Rutherford, N. J., a corporation of New Jersey. Renewed Aug. 15, 1953. Hypodermic Needles. Class 44.

305,554. BALLOON SEAT. Registered Aug. 22, 1933. Alfred E. Sauter, doing business as Sauter Brothers, New York, N. Y. Renewed Aug. 22, 1953, to The Stadium Manufacturing Company, Incorporated, Baltimore, Md., a corporation of Maryland. Infants' and Children's Pajamas. Class 39.

306,111. MEDICAL CENTER. Registered Sept. 5, 1933. Becton, Dickinson and Company, Rutherford, N. J., a corporation of New Jersey. Renewed Sept. 5, 1953. Syringes and Needles Made for Hypodermic and Other Medical and Surgical Uses, Etc. Class 44.

306,120. LUER-LOK. Registered Sept. 5, 1933. Becton, Dickinson and Company, Rutherford, N. J., a corporation of New Jersey. Renewed Sept. 5, 1953. Hypodermic Syringes and Needles. Class 44.

306,195. FEATHERWEAR. Registered Sept. 12, 1933. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Sept. 12, 1953. Men's Tropical Worsted Suits. Class 39.

306,668. KIL-CHIL. Registered Sept. 26, 1933. R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Renewed Sept. 26, 1953. Suits for Wear by Children, and Sweaters. Class 39.

307,127. DUNCAN PAIGE. Registered Oct. 17, 1933. B. Kuppenheimer & Co., Inc., Chicago, Ill., a corporation of Illinois. Renewed Oct. 17, 1953. Men's and Boys' Ready to Wear Coats, Vests, Trousers, and Overcoats. Class 39.

307,155. GIRLIE. Registered Oct. 17, 1933. United Hosiery Mills Corporation, Chattanooga, Tenn., a corporation of Tennessee. Renewed Oct. 17, 1953. Hosiery. Class 39.

307,236. REPRESENTATION OF WIRE SCREEN WITH GOLD BAND. Registered Oct. 17, 1933. American Wire Fabrics Corporation, New York, N. Y., a corporation of Delaware. Renewed Oct. 17, 1953. Wire Screening. Class 13.

307,247. ADVICE TO LOVELORN. Registered Oct. 17, 1933. King Features Syndicate, Inc. Renewed Oct. 17, 1953, to The Hearst Corporation, New York, N. Y., a corporation of Delaware. Newspaper Columns. Class 38.

307,701. BLUE-BLAZES. Registered Oct. 31, 1933. Permatex Company, Inc., Brooklyn, N. Y., a corporation of New York. Renewed Oct. 31, 1953. Automobile Polishes and Furniture Polishes. Class 4.

307,755. BELINDA. Registered Oct. 31, 1933. Fernandez, Pallcio y Compañia, S. en C. Renewed Oct. 31, 1953, to F. Pallcio y Compañia, S. A., Fábrica de Tabacos, Havana, Cuba, a corporation organized under the laws of the Republic of Cuba. Cigars. Class 17.

307,957. YUKON CLUB. Registered Nov. 14, 1933. The Great Atlantic and Pacific Tea Company, New York, N. Y., a corporation of New Jersey. Renewed Nov. 14, 1953. Ice Cream. Class 46.

308,005. GUNITE. Registered Nov. 14, 1933. Cement-Gun Company, Inc., New York, N. Y., and Allentown, Pa. Renewed Nov. 14, 1953, to Cement Gun Company, Allentown, Pa., a corporation of Delaware. Cementitious Material for Stack Construction and Repair, Zoological Dens, Etc. Class 12.

# TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

306,812. 40 BELOW. Registered Sept. 26, 1933. Dupont Pharmacy, Inc., Washington, D. C. Maltless, Non-Alcoholic Beverages Sold as Soft Drinks and Syrups for Making the Same. Class 45. Corrected as follows: In the Renewal Certificate, line 2, for "Below Beverage Company" read *40 Below Beverage Company.*

# TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

**New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.**

385,002. "STUARTS GOLDEN NEEDLE CLOTHES" AND DESIGN. Registered Feb. 11, 1941. Moe Levy & Son, Inc., New York, N. Y. Men's Suits, Overcoats, Etc. Class 39. (Amended July 7, 1953, section 7(d) to "GOLDEN NEEDLE.") New certificate under section 7(c) issued Aug. 25, 1953, to The Manhattan Shirt Company, New York, N. Y., a corporation of New York.

# TRADE-MARK REGISTRATIONS REPUBLISHED

**The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.**

## CLASS 6

### CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 433,402. Registered Oct. 14, 1947. (Classified in Class 51.) Claro Laboratories, South Bend, Ind., a firm. Republished by registrant.
See this number in Class 51 for goods and mark.
Claims use since June 1, 1940.

## CLASS 23

### CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 245,035. Registered Aug. 7, 1928. Hubbard & McClary, Windsor, Vt. Republished by Red Devil Tools, Irvington, N. J., a corporation of New Jersey.

DIAMOND

For Machines for Setting Glaziers' Points.
Claims use since May 1, 1927.

## CLASS 26

### MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 432,470. Registered Sept. 2, 1947. Harcourt-Harris, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

COLORGRAPH

For Motion Picture Films, Photographic Transparencies, Unexposed Light Sensitized Films, Negatives, Positives, Cartoon-Films, Colored Films, Stencil-Films, and Projectors.
Claims use since Dec. 31, 1938.

## CLASS 42

### KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 370,437. Registered Aug. 29, 1939. Puritan Piece Dye Works, Paterson, N. J., a corporation of New Jersey. Republished by registrant.

Vita-Perm FINISH

The words "Finish" and "Perm" are disclaimed apart from the mark as shown.
For Cotton, Rayon Acetate, Silk, Linen, Flax, Wool, Synthetic Wool, Alpaca, and Jute Piece Goods.
Claims use since Nov. 19, 1938.



## CLASS 45

### SOFT DRINKS AND CARBONATED WATERS

Reg. No. 389,682. Registered Aug. 19, 1941. Seminole Flavor Company, Chattanooga, Tenn., a corporation of Tennessee. Republished by registrant.

A GREAT DRINK
A MIGHTY FLAVOR

The words "A Great Drink" and "A Mighty Flavor" are disclaimed apart from the mark as shown.
For Carbonated, Nonalcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks, and Flavoring Therefor.
Claims use since Jan. 4, 1937.

## CLASS 46

### FOODS AND INGREDIENTS OF FOODS

Reg. No. 270,159. Registered Apr. 29, 1930. Vegetable Oil Products Company, Inc., Los Angeles, Calif., a corporation of Delaware. Republished by registrant, present address Wilmington, Calif.




For Vegetable Shortening.
Claims use since May 24, 1929.

## CLASS 51

### COSMETICS AND TOILET PREPARATIONS

Reg. No. 433,402. Registered Oct. 14, 1947. Claro Laboratories, South Bend, Ind., a firm. Republished by registrant.

CLARO

For Shaving Cream and Skin Salve for Bowlers and Sportsmen To Facilitate Gripping of Articles in the Hands While Perspiring.
Claims use since June 1, 1940.

# PLANT PATENTS

## GRANTED AUGUST 25, 1953

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

### 1,211
### LANTANA PLANT

**Charles A. Longmire, El Cajon, Calif., assignor to Monrovia Nursery Company, Monrovia, Calif., a corporation of California**

**Application June 10, 1952, Serial No. 292,780**

**1 Claim. (Cl. 47—60)**

The new and distinct variety of lantana plant, substantially as herein shown and described, characterized particularly by its abundance of slightly fragrant flowers, and its combination of the prostrate, trailing growth habit of the *L. sellowiana* and the clear yellow flower coloring of the *L. camara*.

### 1,212
### AZALEA PLANT

**William B. Mulholland, Montebello, and Paul E. Shepp, Pasadena, Calif., assignors to Monrovia Nursery Company, Monrovia, Calif., a corporation of California**

**Application June 27, 1952, Serial No. 296,100**

**1 Claim. (Cl. 47—60)**

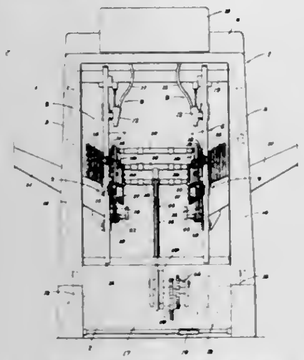
The new and distinct variety of evergreen azalea plant of the Belgian Indica class, substantially as herein shown and described, characterized particularly by its mid-season blooming period; its ease of reproduction by rooting; and its picotee-like, phlox pink flowers of open campanulate form with many central petaloids producing a double bloom effect.

# PATENTS

GRANTED AUGUST 25, 1953

## GENERAL AND MECHANICAL

**2,649,582**
**MECHANISM FOR AUTOMATICALLY FEEDING BOX ENDS IN NAILING MACHINES**
**Gerald C. Paxton, Sanger, Calif., assignor to General Nailing Machine Corporation, Sanger, Calif., a corporation of California**
**Application February 19, 1951, Serial No. 211,698**
**14 Claims. (Cl. 1—14)**

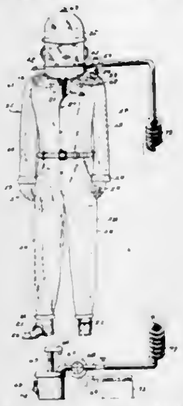


1. A box end feeding mechanism for a box nailing machine having transversely spaced anvils extending therethrough from the rear, and vertically reciprocable nailing units mounted above said anvils; such mechanism comprising chutes mounted in positions to successively deliver box ends onto a rear portion of the anvils, pusher members, means mounting the pusher members for reciprocation adjacent and lengthwise of the anvils whereby to recurringly engage and advance box ends delivered to the anvils by the chutes, the machine including power means operative to actuate the nailing units through a series of nailing cycles for each box, and means between the power means and the pusher members and including a rotary cam formed and operative to reciprocate the pusher members in unison, and in predetermined timed relation to actuation of said nailing units and only once for each such series.

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**2,649,583**
**WORK SUIT FOR FARMERS**
**Ralph J. Schaeffer, Ferdinand, Idaho**
**Application August 4, 1950, Serial No. 177,655**
**2 Claims. (Cl. 2—2)**

1. In an air-conditioned suit, a joint structure for effecting a substantially airtight connection between a helmet of rigid formation and a flexible garment portion having a chest covering portion provided in its upper end with a neck opening having a loop extending peripherally around said opening, comprising a breastplate integrally formed to include a support at the lower end thereof extending through said loop and underlying the chest covering portion of said garment body portion and proportioned to fit over and be supported upon the shoulders, upper chest, and upper back portions of the body of a wearer, an intermediate portion having a circumferential channel of substantially circular cross section and having a circumferential slot providing communication between said channel and the exterior of said intermediate portion, and an upstanding rigid collar at the upper end thereof concentric with and receiving the lower end of



said helmet; a draw string extending through said loop and disposed within said channel to draw the loop through the slot into the channel and thereby contract said upper end of the garment body portion to the inner diameter of the channel for snug engagement with the breast plate; and means spaced from the channel and draw string separably connecting said collar and the lower end of the helmet.

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**2,649,584**
**PROTECTIVE GARMENT**
**Henry Arnold Chappell, Dana Point, Calif.**
**Application November 1, 1950, Serial No. 193,420**
**1 Claim. (Cl. 2—2)**



A garment for protection of the wearer against radio-active particles of matter which comprises: a bag of pliable dust-proof material of sufficient length and width to encase a standing person and having an open end and a closed end and having a side opening extending from said open end towards said closed end; tapes attached to the interior of said bag adjacent both margins of said side opening so as to close said side opening when tied; and additional tapes attached to the interior of said bag opposite to said side opening, said first and said last-mentioned tapes being adapted to serve as handles whereby said garment may be doffed while said first-mentioned tapes remain tied.





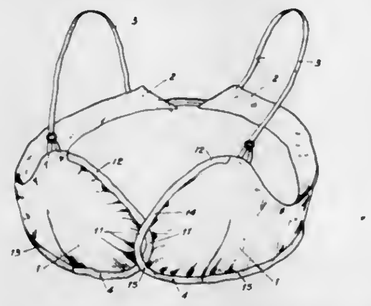
**2,649,585**
**GIRDLE**
**Paula Blatt, Berea, Ohio**
**Application July 28, 1951, Serial No. 239,072**
**2 Claims. (Cl. 2—41)**



1. A girdle comprising an open-ended band having a front section possessing elasticity in only the vertical direction, a side section adjoining each side of said front section and possessing elasticity in only the horizontal direction, a rear section adjoining each of said side sections, means extending substantially horizontally from the top of the rear of said rear sections for releasably connecting the same about the body of the wearer, longitudinally elastic belts each attached at its one end to said band at the rear edge of said side section at a point below the top thereof and extending downwardly at an angle of approximately forty-five degrees, and means anchored at the bottom of each of the side edges of said front section for releasably securing the ends of said belts in cross-over relation in the region of the back of the wearer when in operative position.

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**2,649,586**
**BRASSIÈRE**
**Leon Josephson, Paris, France**
**Application April 23, 1951, Serial No. 222,347**
**In France June 21, 1950**
**3 Claims. (Cl. 2—42)**



1. A brassière comprising substantially two pockets, each of these pockets being at least partially surrounded by a stiffening border, said stiffening border consisting in a sheath of fabric in which at least one flexible stem of plastic material is inserted, said stiffening borders of the two pockets having a maximum curvature at their median portion and positioned in overlapping relation at said median portion of maximum curvature with the stiffening border of one pocket overlapping the stiffening border of the other at two distinct spaced regions located one above the other between the pockets and directly connected to each other at said two distinct spaced regions between the two pockets.

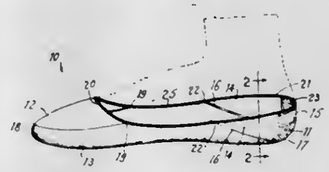
**2,649,587**
**SHOULDERLESS GARMENT WITH SUPPORTER**
**Paul R. Swearingen, Kensington, Ohio, assignor to George H. Bowman, Jr., Salem, Ohio**
**Application October 23, 1951, Serial No. 252,600**
**3 Claims. (Cl. 2—52)**



3. A supporter for shoulderless garments, said supporter comprising a single spring wire including an intermediate inverted U-shaped portion having a forwardly curved intermediate portion adapted to be seated in a horizontally elongated open-ended casing at the top of the front portion of a garment, downwardly and rearwardly curved side portions constituting continuations of opposite ends of said inverted U-shaped portion, lateral rearwardly curved portions constituting continuations of said side portions and which extend toward each other, reversely bent terminal portions constituting continuations of said rearwardly curved portions and which are adapted to be seated in pockets at the back of a garment near the waist line thereof, and lateral forwardly curved terminal end portions constituting continuations of said reversely bent terminal portions and which extend toward each other and are adapted to be seated in an open-ended casing in the front of a garment near the waist line thereof.

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**2,649,588**
**FOOTCAP**
**Russell P. Kantor, New York, N. Y., assignor to Alex. Lee Wallau Incorporated, New York, N. Y., a corporation of New York**
**Application February 1, 1952, Serial No. 269,453**
**2 Claims. (Cl. 2—61)**



1. A footcap comprising a toe panel, a heel box panel and an intermediate panel, a continuous seam joining said toe panel to said intermediate panel, a continuous seam joining said heel box panel to a rear portion of said intermediate panel, a continuous elastic binding on the upper edge of said intermediate panel and the rear edge of said toe panel, and a resilient friction pad on the inner surface of said heel box panel, said elastic binding being adapted to provide a snug fit of the footcap on the wearer's foot and to bring said friction pad into close engagement with the rear portion of the wearer's foot to prevent vertical movement of the rear portion of the footcap relative to the wearer's foot.

**2,649,589**
**CHILD'S GARMENT**
**Ellen E. Shiltong, New York, N. Y., assignor to Annelle Manufacturing Co., Inc., Brooklyn, N. Y., a corporation of New York**
**Application May 22, 1951, Serial No. 227,659**
**7 Claims. (Cl. 2—75)**



1. A child's garment adapted to extend from the shoulders of the wearer to below the abdomen, said garment being cut circular so that it will lie flat when open, said garment being provided with an opening at the center for the head and with openings for the arms disposed at opposite sides of the head opening, and means disposed between the arm openings and the periphery of the garment for gathering the waist.

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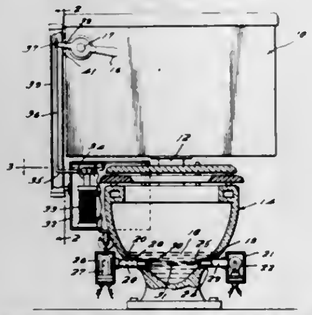
**2,649,590**
**EYE IMPLANT AND PROSTHESIS**
**Norman L. Cutler, Wilmington, Del.**
**Application December 9, 1946, Serial No. 715,089**
**17 Claims. (Cl. 3—13)**



15. An artificial eye implant including an orb for emplacement in the natural eye socket of a human being, said orb carrying an eye muscle attachment ring extending around it.

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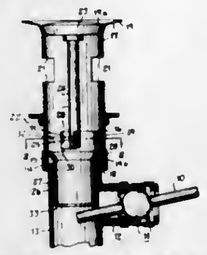
**2,649,591**
**ELECTRONIC CONTROL FOR FLUSHING APPARATUS**
**John R. McRae, Cornwall, Ontario, Canada, assignor of one-half to Palma Adrien Lefebvre, Cornwall, Ontario, Canada**
**Application October 22, 1951, Serial No. 252,506**
**3 Claims. (Cl. 4—10)**



1. In combination, a toilet bowl and flush tank assembly and an electronic operating means for the flushing mechanism of the tank, said means comprising a pair of light conducting tubes extending in alignment through opposite sides of the bowl below the normal level of the water therein, a light source mounted on the outer end of one of said tubes, a photo-electric cell mounted on the outer end of the other of said tubes, a solenoid supported at one side of said bowl and having a vertical movable core, and a member extending vertically from the upper end of said core and connected with the flush valve operating lever of the flushing mechanism, the passage of light between said tubes being blocked by any discoloration of the water within the bowl, said cell being de-activated upon the failure of the light and thereby causing said solenoid to be energized from a current source with which it is connected.

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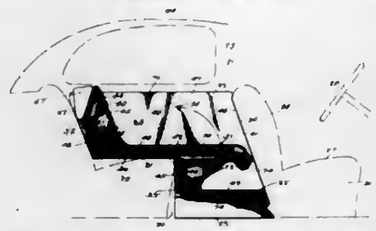
**2,649,592**
**VALVE-PLUG UNIT FOR DRAIN ASSEMBLIES**
**James W. McGarry, Waterbury, Conn., assignor to Chase Brass & Copper Co. Incorporated, Waterbury, Conn.**
**Application March 2, 1950, Serial No. 147,191**
**3 Claims. (Cl. 4—203)**



1. In a drain-assembly; a substantially tubular drain-head having an inwardly turned annular flange at the lower end thereof, said flange forming an opening of smaller diameter than the diameter of said drain-head; a plug-head adapted to engage with the upper end of said drain-head; a stem element secured at one end to said plug-head; and a tubular guide member secured to the other end of said stem element, said guide member comprising an upper portion having a sliding fit with said drain-head and a lower portion of reduced diameter having a sliding fit with the opening formed by said flange.

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**2,649,593**
**CHILD'S TRAVEL UNIT**
**Elwyn N. Kirsten, Philadelphia, Pa.**
**Application November 22, 1948, Serial No. 61,413**
**2 Claims. (Cl. 5—2)**

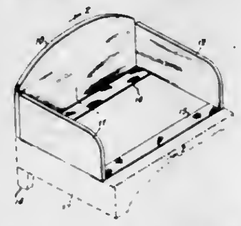


1. A child's travel unit comprising spaced parallel side walls having each a wide portion adapted to form one of the upper portions of the travel unit and having a narrow portion extending from the bottom of the wide portion, one edge of each wide portion extending substantially vertically in prolongation of one edge of a narrow portion to form a substantially vertical front edge of the travel unit, there being an angle formed by each wide and narrow portion, which angle is adapted to receive a portion of an automobile seat at the front edge thereof, a bed portion extending between the side walls at a level adjacent to and above the bottoms of the wide portions from a position adjoining the edges of the wide portions remote from the first mentioned edges to a position adjoining the apices of said angles and fixedly connected to said side walls, a second bed portion hingedly connected to the front edge of the first mentioned bed portion and movable from a position extending upwardly from said front edge of the first mentioned portion to a position in alinement with the first mentioned bed portion, means for releasably maintaining the second mentioned portion in either of said positions, and a cock-pit floor extending between and rigidly connected to the narrow portions of the side walls adjacent the lower edges thereof, one edge of the floor being in line with the apices of said angles and the space above the floor being open to form a portion of a cock-pit in which a child can stand.



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**2,649,594**
**BED GUARD**
**Josephine Di Bella Herz and Harry Herz, Fort Pierce Beach, Fla.**
**Application October 26, 1951, Serial No. 253,334**
**5 Claims. (Cl. 5—331)**



2. A bed guard of the character described comprising a plurality of spaced side boards arranged to extend along opposite sides of a mattress which is supported on a spring, a plurality of cross-pieces of flexible material extending from one side board to the other and arranged to pass between the mattress and the spring, and means connecting the rear terminals of the side boards to give rigidity to the same, such means comprising a head board and detachable fastening means for securing the members together, the side boards being of lesser length than the mattress and being of greater height than the same.

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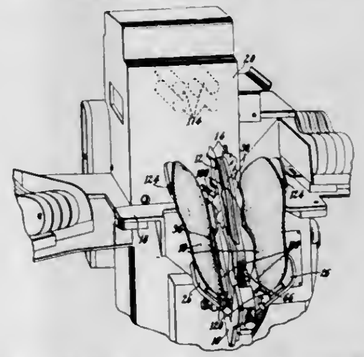
**2,649,595**
**ADJUSTABLE BED MATTRESS**
**Mordcha M. Lewin, New York, N. Y.**
**Application December 29, 1951, Serial No. 264,075**
**14 Claims. (Cl. 5—345)**

14. A mattress comprising superimposed upper and lower mattress layers, a plate co-extensive with said mattress layers and interposed therebetween, a pivotally mounted headboard on the top face of said plate at the head end thereof, springs on said plate beneath said headboard urging said headboard into an inclined position to raise the head end of said upper mattress layer, electrically controlled means for holding said headboard in a lowered position against the normal action of said springs, and means for raising the upper mattress layer at the foot end thereof, said raising means comprising a pivotally mounted U-shaped member on said plate, resilient means urging said U-shaped member into an inclined raised position, means for holding said U-shaped member in a lowered position against the action of said resilient means, and platforms pivotally mounted on said U-shaped member between spaced side arms thereof, said side arms of said U-shaped member being joined by an integral intermediate platform, said means holding said U-shaped member in a lowered position comprising a solenoid operated core engaging said integral platform.



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**2,649,596**
**INSOLE ASSEMBLING MACHINE**
**George F. C. Burke, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application February 23, 1952, Serial No. 273,023**
**12 Claims. (Cl. 12—17)**



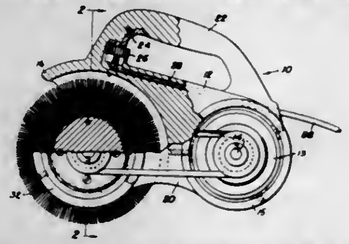
1. An insole spotting machine comprising a frame, a matrix support carried by the frame, leaves pivotally mounted upon opposite sides of the matrix support, insole blank supporting and locating means carried by the leaves, and power means for angularly moving the leaves and blanks supported thereon toward the matrix.

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**2,649,597**
**MOTOR-DRIVEN ROTARY CURRYING BRUSH**
**Emil J. Dullinger, Oakesdale, Wash.**
**Application November 17, 1949, Serial No. 127,923**
**3 Claims. (Cl. 15—23)**

1. A power brush comprising a housing having a top wall, a cylindrical motor casing integral with said top wall and opening at one side of said housing, a pair of axially aligned bearing rings each integral with the relatively opposite sides of said housing with the axis of the rings paralleling the axis of the motor casing, a motor disposed in said casing and having a shaft extending out of the open end thereof, a brush

having a longitudinally extending hub, the length of said hub being equal to the spacing between said bearing rings, a disk having a peripheral groove therein disposed in each of said rings concentrically thereof, a bearing race seated in each of said rings, each of said races having a



complementary groove in the inner face thereof, anti-friction bearing elements disposed in said grooves and rotatably mounting said disks in said rings, fasteners securing each of said disks to the relatively opposite ends of said hub, and means drivingly connecting one of said disks to said motor shaft.

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**2,649,598**
**DUPLEX BRUSH HAVING DUO SECTIONS**
**Harold A. Petsch, Minneapolis, Minn.**
**Application April 28, 1948, Serial No. 23,839**
**1 Claim. (Cl. 15—29)**



A brush structure including two duplicate housings in the same plane and each including a side member and cover member fixed to the side member, a rotor in each housing having pockets in its periphery, a tube affording a water conduit rigidly connecting the two housings, means through which water is delivered into the tube under pressure, an orifice in each housing leading from the tube in the plane of the rotor in said housing and arranged to direct a stream of water into its pockets as they are successively brought into alignment therewith during the rotation of said rotor, two duplicate brushes each substantially completely surrounding the sides of one of the housings, and secured thereto, the bristles of said brushes extending both above and below the housings with their upper and lower surfaces in the same planes and with the adjacent bristles of each brush interspersed one within the other, and a multiplicity of tufts of depending bristles attached to each rotor with their lower ends substantially in the plane of the lower surfaces of the brushes.

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**2,649,599**
**AUTOMATIC SHOE WIPER**
**Willis Leadingham, Glouster, Ohio**
**Application April 10, 1951, Serial No. 220,170**
**3 Claims. (Cl. 15—37)**

1. A shoe wiper comprising an open frame including spaced parallel sides, a fixed grid extending between the sides of said frame, a pair of brushes arranged in horizontal parallel spaced relation between and transversely of the sides of said frame and below said grid and each having the brushes extending vertically through said grid, said brushes being connected to said frame



sides for oscillatory and reciprocatory movement, and means operatively connected to one of said brushes intermediate its ends for oscillating and reciprocating said brushes simultaneously in one direction.

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**2,649,600**
**COMBINED SPONGE AND SQUEEGEE WINDOW CLEANING DEVICE**
**Pratt R. Loveland, Chicago, Ill.**
**Application October 20, 1949, Serial No. 122,372**
**1 Claim. (Cl. 15—121)**



In a cleaning device for double-hung sash windows, a handle in the form of a long, narrow, metallic, flat bar, a foraminous backing plate of substantially rectangular formation secured to one end of said handle in face to face engagement therewith, a pad of sponge rubber of rectangular formation similar to that of said backing plate, but of greater extent than said backing plate secured to the face thereof opposite to that to which said handle is attached, a bracing plate having two arms in angular relation, one arm of said bracing plate being secured to the other end of said handle in face to face engagement therewith, a channel member secured to the other arm of said bracing plate and assuming a longitudinal direction substantially parallel to the plane of said backing plate, and a rubber squeegee carried by said channel member.

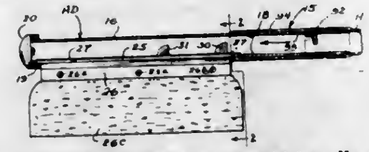
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**2,649,601**
**FOUNTAIN APPLICATOR DEVICE HAVING AUTOMATICALLY CONTROLLED NOZZLES**
**Frederick Toop, New York, N. Y., assignor of twenty-five per cent to Dorothy Toop, New York, N. Y., twenty-five per cent to Anthony Freitas and twenty-five per cent to Rose Freitas, both of Brooklyn, N. Y.**
**Application February 7, 1948, Serial No. 6,863**
**8 Claims. (Cl. 15—128)**

1. A cleaning and washing applicator device of the character described, comprising a tubular handle in which a tube member extends approximately the full length thereof, said tube member being secured to the inner portion of said tubular handle, a flexible hose leading from a source of fluid supply and connected to said tubular handle, said tube member having a slotted opening therein, a bar member having spaced deflectors thereon, said bar member being positioned in and extending the full length of said slotted opening in said tube member, said slotted opening being wider than said bar member, a frame member secured to the under portion of said bar



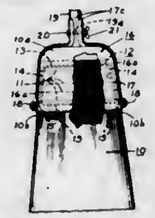
member, said frame member adapted to have cleaning material secured thereto, and removed therefrom, said handle when manipulated to the left or to the right providing a slit opening between the lengthwise edges of said slotted opening on either side of said bar member during



the intermittent movement of said handle in the left or right direction, whereby the flow of the cleaning fluid under pressure from said source is reversed from one side to the other side of said deflectors, thereby providing a flow of the cleaning fluid in front of the applicator device.

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**2,649,602**
**BROOM**
**Francis R. Wiley, Decatur, Ill.**
**Application March 8, 1950, Serial No. 148,427**
**3 Claims. (Cl. 15—176)**

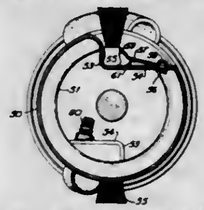


2. A hand broom of the type herein described comprising in combination a broom body portion, a supporting frame element integral with and positioned intermediate the opposite faces of the broom body portion, threaded members on said frame element, an encasement portion adjacent the upper portion of the broom body portion, said encasement portion having slot means therein removably engaging said threaded members on the frame element, clasp elements mounted on the encasement portion, slot means in the clasp elements engaging said threaded members, means for securing the frame element, the encasement portion, and clasp elements in assembled relationship with means formed on the clasp elements for removably mounting a handle member thereon.

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**2,649,603**
**DEVICE FOR RELEASABLY SECURING BRUSH STRIPS IN BRUSH ROLLS**
**Louis E. Segesman, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application September 16, 1948, Serial No. 49,579**
**5 Claims. (Cl. 15—183)**

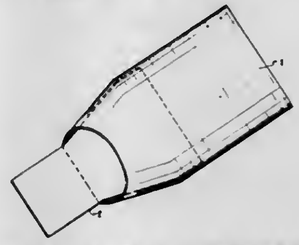
4. A brush roll for cleaning devices comprising a generally cylindrical body portion formed with an elongated indentation defining a seat formed by a pair of angularly related walls, a brush strip having bristles projecting outwardly of said body portion and a back in said seat engaging each of said walls, one of said walls being formed with a shoulder in spaced relation to the other of said walls and said back, a clamping plate having one edge engaging said back in spaced relation to each of said walls and another edge engaging said shoulder, and a securing member engaging said one wall and said plate and biasing said plate toward said one wall to wedge



said back in said seat, said plate and said shoulder and said securing member being at a lesser distance from the axis of said cylindrical body portion than the unindented portion thereof.

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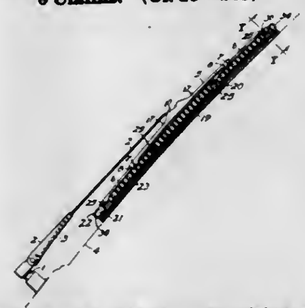
**2,649,604**
**KITCHEN APPLIANCE, SCRAPER-COLLECTOR**
**Alexander McD. Hess, New York, N. Y.**
**Application December 24, 1949, Serial No. 134,960**
**1 Claim. (Cl. 15—236)**



In kitchen appliances an integrated scraper-collector comprising a scraper portion and a collector portion formed of a pliable bag having a closed end and an open tapered end the inner side of which latter is fastened to the under side of the correspondingly tapered scraper portion and the combination of which by the tapering of its parts is enlarged towards the closed end of the bag so as to form a repository which is larger in cross-section than the open end of the bag.

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**2,649,605**
**WINDSHIELD CLEANER**
**Anthony C. Scinta, Buffalo, and Anton Rappl, Eggertsville, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.**
**Application May 12, 1947, Serial No. 747,374**
**8 Claims. (Cl. 15—245)**

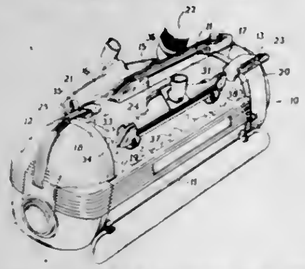


1. A windshield cleaner comprising a flexible squeegee unit conformable to the surface being

wiped, a pressure distributing holder having relatively movable parts engaged with the squeegee unit for distributing an arm applied pressure to said unit, said holder comprising a primary yoke and plural secondary yokes rockably mounted at spaced points on the primary yoke, and latch means carried in part by a secondary yoke and detachably coupling the squeegee unit to the secondary yokes by and upon relative movement between the holder and the squeegee unit in a direction lengthwise of the unit.

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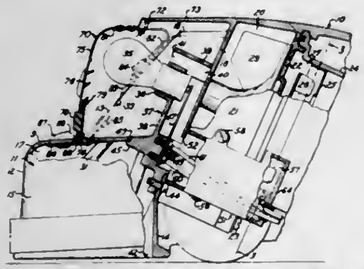
**2,649,606**
**TOOLHOLDER FOR TANK TYPE VACUUM CLEANERS**
**Glenn R. Fadner, Oshkosh, Wis., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware**
**Application March 4, 1949, Serial No. 79,536**
**4 Claims. (Cl. 15—323)**



4. A holder for attachments for use with a vacuum cleaner comprising a plate member of arcuate cross-sectional conformation adapted to be mounted over the upper portion of said cleaner and of a configuration to lie upon and closely conform to said portion of said cleaner, attaching means on said plate member for securing the latter upon said cleaner, said plate member having a slot for accommodating the handle of the cleaner, and a plurality of holding members mounted upon said plate member in a manner to retain cleaning tools for use in connection with said cleaner.

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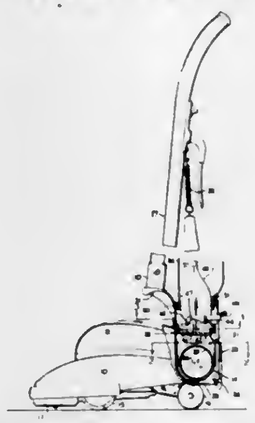
**2,649,607**
**LAMP COOLING DEVICE IN SUCTION CLEANERS**
**John E. Vance, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application March 31, 1949, Serial No. 84,693**
**5 Claims. (Cl. 15—324)**



3. In a suction cleaner, a body, an electric light bulb on said body to illuminate the surface being cleaned, a fan mounted in said body for moving air to said bulb to cool the latter, a walled conduit extending from said fan to said light bulb and having an outlet adjacent said bulb to discharge cooling air, and means in said walled conduit exposed to said cooling air for mounting said bulb adjacent said outlet in the path of cooling air discharged from said outlet.

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**2,649,608**
**SUCTION CLEANER**
**George E. Kaufman, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application December 12, 1950, Serial No. 200,419**
**9 Claims. (Cl. 15—351)**



1. In combination with a suction cleaner of the type having an ambulatory body, a motor-fan unit thereon, a suction nozzle in communication with the inlet of said fan, an exhaust air conduit leading from the discharge side of said fan, of a filter adapter tube having a flexible connection with said exhaust air conduit, a propelling handle pivotably connected to said body on an axis passing through said flexible connection, said handle connection including a housing enclosing said adapter tube and said flexible connection, the outer end portion of said adapter tube being formed to have the inlet of a filter telescoped thereover, said adapter tube housing including a movable closure member pivotably mounted thereon, means for locking said closure member closed, and filter clamping means on the inner wall of said housing and said closure member operable when said closure member is closed to embrace the filter inlet on said adapter tube and clamp the filter thereto in an airtight manner.

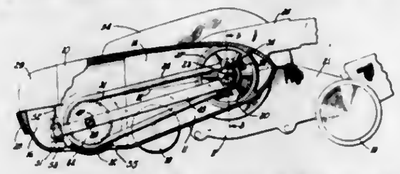
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**2,649,609**
**DUST AGITATOR SUPPORTING MEANS FOR AMBULATORY VACUUM CLEANERS**
**Edgar P. Turner, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey**
**Application March 10, 1949, Serial No. 80,834**
**5 Claims. (Cl. 15—372)**

1. A vacuum cleaner comprising a casing having an upper casing shell and a U-shaped lower casing shell opertured to form a suction nozzle, a motor having a shaft with a horizontal axis that extends transversely of said casing, a fan on each end of said motor shaft, a pulley on one end of said shaft and located externally of one of said fans, a rotary agitator located within said casing adjacent to said suction nozzle and



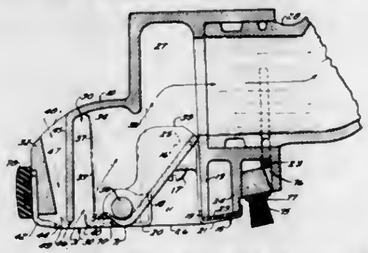
the axis of said agitator being parallel to and forward of said motor shaft, a pair of agitator supporting arms extending rearwardly from said agitator, mounting means at opposite sides of



said upper casing shell pivotally supporting the rear ends of said arms directly below said motor axis, and a belt for driving said agitator from said pulley.

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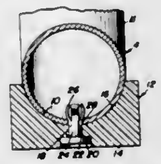
**2,649,610**
**VALVED CLEANING NOZZLE WITH PLURAL MOUTHS FOR SUCTION CLEANERS**
**Louis E. Segeaman, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application March 5, 1949, Serial No. 79,767**
**5 Claims. (Cl. 15—416)**



4. A cleaning tool comprising a body having two nozzles, valve means in said body movable to different positions to control connection of either of said nozzles to a source of suction, over-center means connected to said valve means to maintain the latter in either of its positions and disposed in an open mouth recess in said body, and means forming a lip for one of said nozzles and engaging said over-center means to support the latter in said body and close said mouth of said recess.

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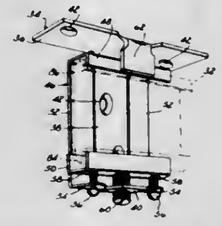
**2,649,611**
**COASTER FOR FURNITURE LEGS**
**Chester W. Muszynski, Unionville, Conn.**
**Application November 21, 1950, Serial No. 196,852**
**1 Claim. (Cl. 16—30)**



For use in supporting and shifting porch furniture of a type having tubular legs wherein each leg embodies diverging branches defining a substantially V-shaped elbow; a glider-type coaster adapted to be interposed between the floor surface and said elbow to prevent the latter from marring the floor surface and to permit the furniture to be bodily slid from place to place over the floor surface, said coaster comprising a one-piece block having a flat smooth bottom to glidably contact and sled over the floor surface, the top of said block having an open-ended semicircular groove providing a seat to conformably accommodate the V-shaped elbow, said block being provided with a centrally disposed vertical bore adapted to register with a hole in said elbow, the lower end of said bore being provided with a counterbored portion, and a readily insertable and removable snap-type rivet having a head fitted into the counterbored portion and the stem projecting upwardly through and beyond the vertical bore, the upper end of said stem being provided with resilient assembling and retaining fingers cooperable with a hole provided therefor in said elbow.

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**2,649,612**
**TRACK AND BRACKET**
**Austin C. Loomis, Plainville, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut**
**Application September 8, 1949, Serial No. 114,509**
**7 Claims. (Cl. 16—94)**



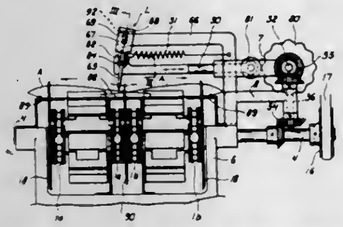
7. In combination, a C-shaped track for supporting slidable doors, a bracket for supporting said track in operative position including a downwardly facing channel portion at its upper end and forming a lateral flange at its lower end, upper and lower channeled clamping members, said upper clamping member being within said bracket channel portion and having downwardly directed legs, each leg provided with a lateral extension at its lower end, a screw carried by each lateral extension engageable with said lower clamping member to urge said lower clamping member toward said upper clamping member to thereby clamp said track therebetween and a screw carried by said bracket flange engageable with said lower clamping member to move said lower member, track and upper clamping member vertically relative to said bracket.

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**2,649,613**
**APPARATUS FOR POSITIONING FISH**
**Paul Danielsson, Stockholm, Sweden, assignor to Arenco Aktiebolag, Stockholm, Sweden, a Swedish joint-stock company**
**Original application April 17, 1945, Serial No. 588,789. Divided and this application December 29, 1948, Serial No. 67,843**
**8 Claims. (Cl. 17—2)**

1. Fish locating means comprising, in combination with means feeding the fish transversely, a spindle extending above and longitudinally of the path of travel of the fish, a fish locating member having a rigid bottom edge which extends in the fish feeding direction, said locating member being pivotally mounted on said spindle and movable transversely to said spindle

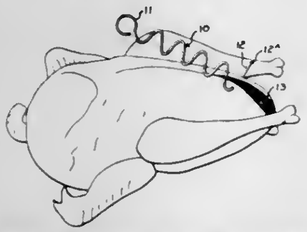
to press by said edge upon the fish by its own weight, and means operatively associated with said member to impart to said member short



and rapid vibratory swinging movements about said axis crosswise of the fish feeding direction to displace the fish longitudinally.

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**2,649,614**
**MEANS TO CLOSE FILLING OPENING IN PREPARED POULTRY**
**Raymond B. Holt, Alhambra, Calif.**
**Application November 20, 1950, Serial No. 196,622**
**4 Claims. (Cl. 17—11)**

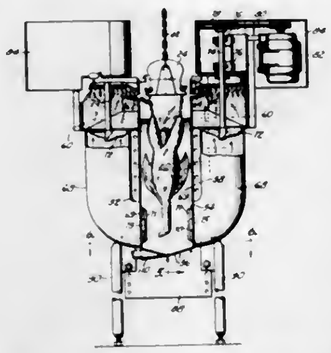


1. A skewer of the character described, comprising a wire in the form of a helical screw, one end of the wire being in the form of a loop to provide a handle with the plane of the loop extending substantially parallel with the axis of the helical screw whereby an operator may grasp the said loop to apply torque to cause rotation of the screw about its axis, the other end of the wire continuing into a convolution of greater mean diameter than the contiguous intermediate portion of the helical screw and extending for at least one half a turn from said intermediate portion.

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**2,649,615**
**SECTIONAL SCALDING TANK FOR FOWL**
**Allen W. Sharp, Ottumwa, Iowa, assignor to Barker Poultry Equipment Company, Ottumwa, Iowa, a corporation of Iowa**
**Application August 5, 1950, Serial No. 177,905**
**10 Claims. (Cl. 17—11.2)**

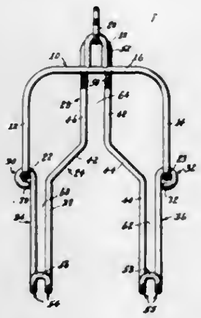
1. In a scalding tank for fowl, a pair of spaced longitudinal side walls and a bottom wall defining a longitudinal water channel having water therein up to a normal level and through which water the fowl is conveyed, at least one of said side walls having means thereon defining a substantially closed water chamber extending substantially the entire length of said wall, said means having a horizontal orifice in one side extending substantially the entire length thereof, said orifice being disposed above said normal water level in said water channel, a water pipe having an inlet and an outlet, said inlet being connected to said water channel adjacent the bottom thereof, said outlet being connected to said means defining the water chamber, and pumping means associated with said scalding tank for circulating water from said water chan-



nel to said means defining the water chamber through said water pipe and for causing said water to be discharged through said orifice downwardly over the fowl in said water channel.

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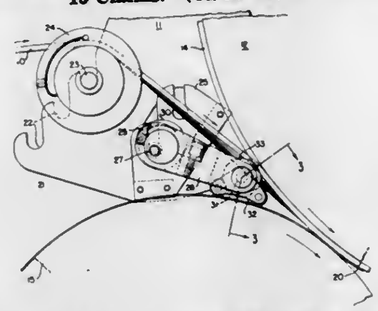
**2,649,616**
**POULTRY SHACKLE**
**Oscar W. Swanson, Ottumwa, Iowa, assignor to Barker Poultry Equipment Company, Ottumwa, Iowa, a corporation of Iowa**
**Application December 3, 1951, Serial No. 259,539**
**14 Claims. (Cl. 17—44.1)**



1. A shackle for fowl comprising a support member having a pair of spaced downwardly depending legs, a holding member pivotly connected to the lower ends of said downwardly depending legs and positioned substantially between said legs of the support member, said holding member having a leg holding portion extending below said pivotal connection and a second portion extending above said pivotal connection, said leg holding portion having formed therein laterally spaced slots adapted to receive the legs of a fowl and engage the feet thereof, said slots being open across the upper end thereof, said second portion being attached to said first portion between said laterally spaced slots, said second portion adapted to be grasped to pivot the holding member to an up-ended position, wherein the leg holding slots are open across the lower end thereof.



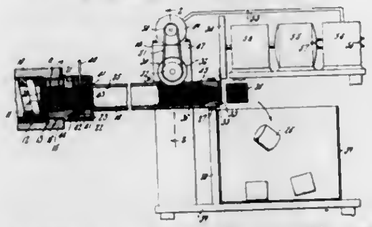
**2,649,617**
**APPARATUS AND PROCESS FOR VULCANIZING STRIP STOCK**
**Grosvenor D. Marcy, Newton, Mass., assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts**
**Application September 1, 1951, Serial No. 244,837**
**13 Claims. (Cl. 18—6)**



2. In a rotary vulcanizing machine having cooperating pressure rolls mounted to provide a bite into which the uncured stock is directed, a pair of spaced edge-deflecting rolls located close to the bite, and a wheeled truck carrying each roll and conforming to and reacting against the cylindrical surface of one of the pressure rolls.

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**2,649,618**
**METHOD AND APPARATUS FOR EXTRUSION OF PLASTICS HAVING ELASTIC MEMORY**
**Thomas J. Rhodes, Clifton, and James J. Neville, Maywood, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**Application June 29, 1950, Serial No. 171,122**
**8 Claims. (Cl. 18—12)**

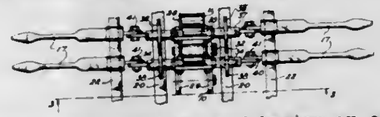


3. Apparatus for extruding plastic material and cutting same into lengths containing substantially equal quantities of material comprising a tube, means for forcing plastic material through said tube, means within said tube for measuring the rate of flow of the plastic material therein, means for cutting the extruded plastic material into lengths and means responsive to said measuring element for synchronizing the operation of said cutter with the rate of flow of the plastic.

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**2,649,619**
**APPARATUS FOR MANUFACTURING DIPPED RUBBER ARTICLES**
**Edward S. Killian, Akron, Ohio**
**Application February 4, 1950, Serial No. 142,487**
**6 Claims. (Cl. 18—24)**

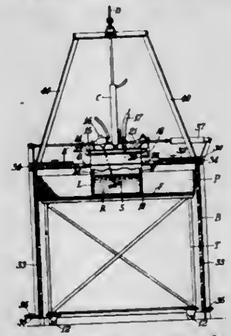
1. Apparatus for manufacturing thin, dipped rubber articles comprising an endless conveyor, an arm secured to and projecting laterally from the conveyor, a dipping form, and means for connecting the form to the arm, said form having a shank rotatable relative to the form and having an aperture in its free end, and said means including a sleeve receiving the arm and



rotatable relative thereto and having an opening in its free end for registry with the aperture in the free end of said shank, and a bolt to extend through registered aperture and opening and holding the sleeve and shank pivotally together.

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**2,649,620**
**CASTING EXPANDED PLASTICS**
**Walter Arthur Miller, Bloomfield, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York**
**Application August 1, 1951, Serial No. 239,784**
**5 Claims. (Cl. 18—26)**



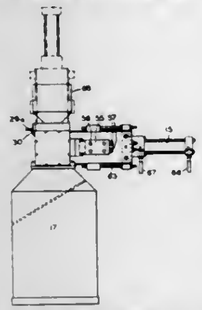
5. Apparatus for casting a block of expanded plastic, comprising a molding pan having a relatively large floor area, a continuous rigid upstanding wall on the floor of the pan surrounding a relatively small area thereof and forming therewith a take-apart mixing vessel having a thin sheet of expendable film lining the inside of said wall and the area of pan floor surrounded thereby to form a continuous liner for said mixing vessel adapted to receive a charged mass of plastic, and means for lifting the film supporting wall to raise it off the floor of the pan and slide it upwardly relative to the liner and the mass of plastic therein until the wall clears the top of the liner, whereby the liner may spread to flatten out and permit the plastic to spread radially of the floor of the pan.

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**2,649,621**
**MOLDING MACHINE**
**Ernest P. Moslo, Cleveland Heights, Ohio**
**Application December 15, 1949, Serial No. 133,060**
**6 Claims. (Cl. 18—30)**

1. In combination, a molding machine including a main frame, a plasticizing cylinder mounted thereon and means on said frame for injecting heated plastic from said cylinder into a mold, said means terminating in an injection nozzle, a mold and clamp assembly having means for holding coacting die blanks and clamp means for advancing and retracting one of said die blanks

and for holding said blanks tightly clamped together, and pivotal mounting means for said assembly on said frame pivoting said assembly for



oscillation in a vertical plane, the pivotal axis of said mounting means being alined with said nozzle, and means for holding said assembly in vertical or horizontal position.

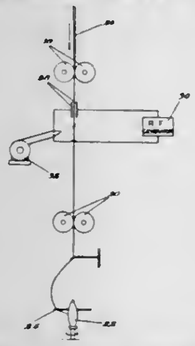
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**2,649,622**
**PROCESS FOR MOLDING SYNTHETIC LINEAR POLYESTERS**
**John Augustus Piccard, Tonawanda, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**
**No Drawing. Application December 20, 1949, Serial No. 134,125**
**4 Claims. (Cl. 18—55)**

1. A process of molding articles from thermoplastic material which comprises introducing a solid crystallizable thermoplastic material consisting essentially of a major proportion of substantially amorphous linear polyethylene terephthalate, having an intrinsic viscosity of at least 0.3, into a mold and heating the material in the mold at a temperature of from 120° C. to 220° C., and under pressure of at least about 100 pounds until said material crystallizes whereby to form the desired molded article and thereafter removing said article from the mold before cooling.

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**2,649,623**
**METHOD AND APPARATUS FOR STRETCH-BREAKING TEXTILE FILAMENTS**
**Robert M. Ingham, Jr., Clemson, S. C., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York**
**Application June 7, 1947, Serial No. 753,197**
**13 Claims. (Cl. 19—.37)**



4. The method of stretch breaking a continuity of substantially parallel textile filaments during passage through a zone which comprises feeding the filaments into the zone at one rate while withdrawing the filaments from the zone at a greater rate to tension the filaments, maintaining the filaments substantially parallel during passage through the zone and applying to the filaments in the nighborhood of the entrance into the zone heat sufficient to cause breakage of tensioned filaments but insufficient to cause severance of untensioned filaments.

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**2,649,624**
**METHOD OF PRODUCING SISAL FIBER AND WAX**
**Paul F. Bruins, Douglaston, N. Y., assignor, by mesne assignments, to Christian Missions Foundation, Inc., New York, N. Y., a corporation of New York**
**Application April 5, 1949, Serial No. 85,494**
**9 Claims. (Cl. 19—7)**

1. A method of separating sisal wax from a sisal leaf, which consists in contacting the surface of said leaf with a solvent of sisal wax and extracting and dissolving the sisal wax of said leaf in said solvent and removing said solution from said leaf, said leaf being thus contacted with said solvent and said solution being removed from said leaf while said leaf has its fibre and also has its aqueous pulp in uncrushed form, said solvent extraction being substantially confined to said surface to retain in said uncrushed aqueous pulp substantially all of its wax and color bodies which are soluble in said solvent.

9. A method of decorticating a sisal leaf which has its aqueous pulp in uncrushed form, which consists in heating said leaf to at least substantially 50° while removing the sisal wax from said leaf by surface solvent extraction to produce a hot and limp sisal leaf which has substantially all of said aqueous pulp in uncrushed form, and then decorticating said leaf while it is hot and limp by scraping said leaf under pressure while crushing said aqueous pulp.

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**2,649,625**
**TORNADO PROOF BUILDING**
**Eugene A. Johnson, Great Falls, Mont.**
**Application August 18, 1948, Serial No. 44,843**
**3 Claims. (Cl. 20—1)**

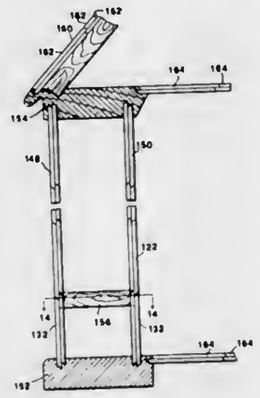


1. In combination with a cylindrical foundation wall projecting a short distance above the ground and formed at the top with an external undercut rabbet, a circular building including a circular sill anchored upon the upper edge of said foundation wall, an outer cylindrical wall composed of a plurality of contiguous vertical staves abutting against and directly anchored near their lower ends to the sills, said staves being provided at their lower ends with tennons fitting and seated in said rabbet of the foundation wall, a floor supported at its edge on the edge of the foundation wall and the sill, and hoops surrounding the cylindrical outer wall adjacent the top and bottom of the latter and retaining the staves in circular formation.



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**2,649,626**
**BUILDING ELEMENT**
**William Henrichsen, Long Island City, N. Y.**
**Application March 20, 1948, Serial No. 15,989**
**2 Claims. (Cl. 20—4)**



1. In a building wall a pair of spaced parallel vertical walls each comprising a plurality of interlocking building elements, said elements each being of flat form and the adjacent faces of each of the elements in a wall having a pair of salient dihedral angles and a reentrant dihedral angle between them so arranged that a salient dihedral angle of each face interlocks with the reentrant angle of the adjacent face of the adjacent element, and a strength member extending between said walls and having ends which interlock with cutout portions in two of said building elements oppositely disposed in said parallel walls and engage the faces of the said two elements adjacent to said cutout portions.

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**2,649,627**
**METHOD OF ATTACHING MATS**
**Albert L. Gustin, Jr., Johnson County, Kans., assignor to Gustin-Bacon Manufacturing Company, a corporation of Missouri**
**Application January 21, 1950, Serial No. 139,950**
**8 Claims. (Cl. 20—4)**

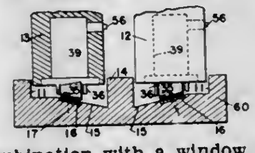
1. The method of supporting a resilient, compressible mat which comprises clamping and compressing the mat at spaced intervals between fixed fastening members positioned against opposite faces of the mat, and slitting the compressed mat partially therethrough along the margin of one of the fastening members adjacent one of said intervals to permit the mat adjacent said one member to decompress to substantially its normal unrestrained thickness, the uncut section of said mat serving to anchor the



unconfined area to the area clamped between the fastening members.

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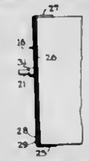
**2,649,628**
**ADJUSTABLE SASH AND FRAME**
**Joseph E. Haynes, Baltimore, Md.**
**Application August 15, 1951, Serial No. 241,983**
**4 Claims. (Cl. 20—52.2)**



1. In combination with a window frame having opposite vertical walls, a parting strip located medially of the walls to form channel surfaces slanting inwardly towards the opposite vertical faces of the strip, a pair of window sashes cooperating with the window frame, aligned conical rollers carried by an outer edge of said sashes, said rollers being slidable along the aforesaid channel surfaces and means for forcing said rollers against said channel surfaces whereby the sashes constantly tend towards each other to insure tightness therebetween.

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**2,649,629**
**LOUVER CONSTRUCTION**
**Jay H. Baxter and Robert B. Johnson, Port Arthur, Tex.**
**Application November 28, 1949, Serial No. 129,804**
**1 Claim. (Cl. 20—62)**

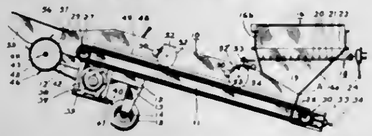


In a louver construction the combination of a pair of channel-shaped slat carriers pivotally mounted on opposed window jambs, one end of said carriers being closed; a slat mounted with its ends in said carriers; and a longitudinally bowed resilient filler strip within the channel of said slat carrier and interposed between each

end of said slat and the web of the corresponding carrier and thrusting oppositely thereagainst to resist longitudinal movement of said slat in said carrier, the concavity of each filler strip facing the carrier web and each said strip having a down-turned tongue engaging a side edge of the slat, the opposite end portion of said strip having a boss on a side thereof engaged in a corresponding aperture in the web of the slat carrier to lock said strip therein.

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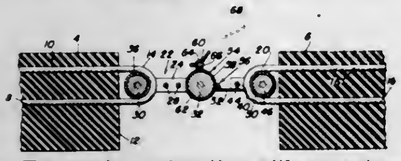
**2,649,630**
**MACHINE FOR THE RECOVERY OF USED FOUNDRY SAND**
**John W. Thomley, Jr., Decatur, Ill.**
**Application August 26, 1950, Serial No. 181,637**
**3 Claims. (Cl. 22—89)**



3. In a machine of the type herein described comprising in combination an elongated body portion having a loading end and a discharge end, hopper means carried on said loading end, sand vibrating means mounted in said hopper means, sand conveying belt means mounted in said body below said hopper connecting the loading and discharge ends thereof, means for cooling the sand on the discharge means comprising a wetting means mounted over the belt conveying means to discharge a cooling medium on the sand on the conveying belt and sand diffusing disc means carried by the side of the body in contact with the sand moving with the conveyor.

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**2,649,631**
**V BELT WITH IMPROVED FASTENER MEANS**
**John W. Rice, Grand Prairie, Tex.**
**Application July 11, 1951, Serial No. 236,165**
**4 Claims. (Cl. 24—33)**

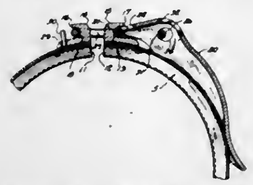


1. For use in conjunction with an automotive power transmitting belt fabricated to include embedded reinforcing cords, the ends of the latter terminating in a multiplicity of U-shaped loops projecting beyond the respective ends of said belt; self-adapting flexible loop connecting belt-end fastener means comprising a roller adapted to be saddled in the projecting loops at one end of said belt, a second roller adapted to be saddled in the loops at the opposite end of said belt, and separable connecting means flexibly joining said rollers in spaced parallelism.

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**2,649,632**
**TOGGLE TYPE CONNECTING ASSEMBLY**
**Joseph S. Kessler, Kenosha, Wis., assignor to Tri-Clover Machine Co., Kenosha, Wis., a corporation of Wisconsin**
**Application January 20, 1951, Serial No. 206,947**
**2 Claims. (Cl. 24—68)**

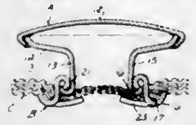
2. A toggle-type connecting assembly for a clamping ring having a pair of relatively movable juxtaposed end portions to be drawn and held together, comprising a lip on one of said end portions projecting away from its end portion, a handle having one end formed with a nose removably and pivotally seated under said lip, said handle having an aperture adjacent the tip of



said nose which is positioned to receive said lip as the handle is pivoted in one direction, and link means connecting said handle with the opposite end portion of the clamping ring for drawing the end portions of the clamping ring together when the handle is moved toward the ring.

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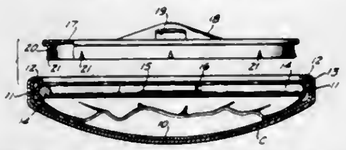
**2,649,633**
**MACHINE ATTACHED BUTTON**
**Forrest G. Purinton, Middlebury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut**
**Application August 6, 1952, Serial No. 302,875**
**3 Claims. (Cl. 24—94)**



1. A button of the character described comprising a head having a shank provided at its lower end with an outwardly extending flange, the bottom surface of which is adapted to confront one side of the material to which the button is to be attached, and an anchor member having a ring provided with integral backing portions extending inwardly from its inner edge for confronting the opposite side of the material, said ring also having spaced apart integral attaching prongs extending from its inner edge, positioned about said flange and having their upper ends curled inwardly towards said shank and downwardly into engagement with said flange for securing the parts together.

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**2,649,634**
**FABRIC COVERED BUTTON**
**Ludwig Zelenay, Culver City, Calif.**
**Application June 11, 1951, Serial No. 230,943**
**1 Claim. (Cl. 24—113)**



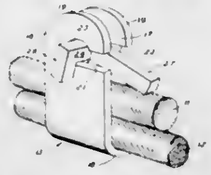
A button construction for making covered buttons comprising a concave-convex support over which a covering material is adapted to be positioned, said support having around its edges an inwardly extending flange cooperating with the body of the support to form an internal recess within which said covering material is to be positioned, a split expansion ring partially



receivable in said recess to retain the edges of the covering material therein, said expansion ring being irregularly split in order that portions along the line of split will overlap when the ring is in the extreme expanded condition, a backing plate adapted to be snapped within the confines of said support, said backing plate having an edge thereon in contacting relationship with said flange and said ring and overlying said ring, said backing plate having an annular flange disposed inwardly of said edge and receivable through and in contacting relationship with the expansion ring holding the latter against collapse and holding the parts in assembled relationship, said annular flange having a number of regularly spaced embossed portions thereon adapted to expand beneath the expansion ring to hold the backing plate in the assembled position, and a perforated dome on the exterior of said backing plate spaced inwardly from said edge and annular flange.

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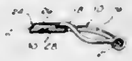
**2,649,635**
**PIVOTED LEVER TYPE LINE CLAMP**
**Ernest A. Peterson, Oakland, Calif.**
**Application July 5, 1950, Serial No. 172,140**
**1 Claim. (Cl. 24—134)**



Apparatus for clamping a pair of cables or the like against relative displacement comprising a cable receiving member and a cam member, said cable receiving member comprising a vertically extending bifurcated holder, each of the furcations comprising an ear arranged to be in relatively snug engagement with a horizontally disposed cable placed between the ears, aligned slot means in each of the ears, extending substantially parallel to the cable when placed between the ears, each slot having an enlarged terminal portion, said cam member comprising a bar of substantially rectangular cross section proportioned to fit said slots and to turn in said enlarged portion, said cam member having arms projecting perpendicularly to said bar outside said ears to prevent spreading thereof, and an activating arm substantially perpendicular to said bar, a cable engaging means depending from said bar intermediate said arms and adapted to engage and clamp said cable when said cam member is turned to a position wherein a diagonal of the cross section cooperating with the enlarged slot terminals prevents withdrawal of the clamping means.

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**2,649,636**
**ORNAMENTAL BELT BUCKLE**
**John B. Freysinger, New Britain, Conn., assignor to North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut**
**Application May 24, 1950, Serial No. 163,815**
**5 Claims. (Cl. 24—163)**



1. An ornamental belt buckle comprising a continuous generally rectangular frame including a chape and a flat relatively long nose spaced opposite each other and connected together by side bars, and a replaceable ornamental U-shaped attachment having spaced apart parallel plate-like legs, the legs of which frictionally and slidably engage the front and rear surfaces of said nose to substantially cover the same, the bend of said attachment abutting the inner edge of said nose when mounted in operative position thereon and the side edges of said attachment being substantially contiguous to the side bars of said frame.

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**2,649,637**
**ADJUSTABLE STRAP-ATTACHING MEANS FOR BUTTON-LOOPS, BUCKLES, ETC.**
**Robert J. Hodge, West Haven, Conn.**
**Application November 18, 1950, Serial No. 196,417**
**2 Claims. (Cl. 24—200)**



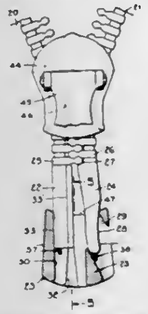
2. A fastening device for straps comprising a frame having a pair of side bars interconnected by a top member and a bottom member and by a pair of transverse crossbars, the crossbar adjacent said top member being offset forwardly to adjustably receive a strap therearound, the strap being inserted from the rear between the top member and said offset crossbar with the free end of the strap inserted rearwardly between the offset crossbar and the other crossbar and with the looped portion thus defined being inserted rearwardly between said other crossbar and said bottom member, and means for retaining the strap in adjusted positions comprising opposed rows of teeth on the adjacent edges of said top member and said offset crossbar and opposed rows of teeth on the adjacent edges of said crossbars, said other crossbar being bent forwardly adjacent its row of teeth to position said row forwardly of said offset crossbar.

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**2,649,638**
**TWO-WAY SEPARABLE FASTENER STRINGER**
**Louis H. Morin, Bronx, N. Y.**
**Application June 21, 1950, Serial No. 169,339**
**15 Claims. (Cl. 24—205.11)**

12. In a pair of separable fastener stringers having detachable bottom stops comprising a pin on one stringer and a bar associated with a box part on the other stringer, the improvement comprising a movable box part having a pair of intersecting channels therein, said box part being movable along the stringers so that the pin and bar are slidable through said channels, said bar having a rib and said box part having a groove for receiving said rib, interengaging means on the box part and on the bar for preventing the box part from sliding downwardly off the bar, and means for preventing the box part

from sliding upwardly along said bar comprising a control member on the box part having a



yieldably supported element engageable with the bar.

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**2,649,639**
**GARMENT SHOULDER STRAP HOLDER**
**Etta Maude Carlin, Bovill, Idaho**
**Application April 7, 1950, Serial No. 154,621**
**1 Claim. (Cl. 24—248)**

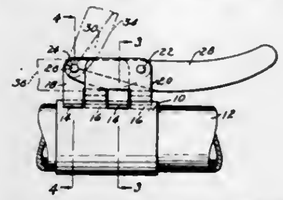


In a garment shoulder strap holder, a shoulder strap engaging member comprising pivotally connected sections adapted to clamp therein a plurality of shoulder straps engaging one shoulder of the user, and a connecting member having means at one end thereof detachably engaging free ends of the shoulder strap engaging sections for holding said shoulder strap engaging member in a closed position and in gripping engagement with the shoulder straps, said shoulder strap engaging member comprising an elongated rectangular frame having an externally disposed loop at one end thereof and a plate having a barrel portion disposed transversely of one of its ends and turnably engaging the other end of the frame, said plate having a loop at its opposite end, the plate portion disposed between the barrel portion and said plate loop being smaller than the frame to fit therein when the plate loop is disposed adjacently the loop of the frame, and said means of the connecting member comprising a hook detachably engaging said loops to retain the plate in a closed position in the frame, said barrel portion and plate loop each being offset relatively to the plane of said plate portion and in the same direction whereby said plate portion may pass completely through the frame as the loop thereof is moved to a position adjacent the frame loop.

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**2,649,640**
**PIPE CLAMP**
**Louis Dentsch, Dearborn, and Edgar C. Busch, Detroit, Mich.**
**Original application February 3, 1949, Serial No. 74,397. Divided and this application February 17, 1950, Serial No. 144,822**
**1 Claim. (Cl. 24—249)**

A lock comprising a collar having a split therethrough with substantially abutting edges, at least three upstanding feet attached to the collar adjacent the abutting edges, such feet being attached in a substantially opposed relationship and adapted to extend across the split in the collar so that the opposed feet overlap each other on opposite sides of the split and an operator



lever, having a beveled portion thereon, pivoted on one of the feet and adapted for movement therebetween so that the beveled portion will produce a spreading action between such feet.

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**2,649,641**
**RESILIENT CLIP OR CLAMP**
**Lawrence Romaine Young, Seattle, Wash.**
**Application June 19, 1950, Serial No. 169,009**
**1 Claim. (Cl. 24—259)**



A one piece resilient clamp comprising a substantially semi-circular resilient portion; two substantially straight parallel spaced apart side portions integral with the extremities of said semi-circular resilient portion; one of said side portions forming an inside jaw member; a substantially flat straight end section integral with the other side portion and extending across the clamp between said two side portions; a substantially flat straight outside jaw member integral with said flat end section and perpendicular to said end section and extending alongside of the jaw forming side portion outwardly therefrom and in opposed relation thereto; a flat member perpendicular to and integral with the extremity of said inside jaw member and extending toward the other side portion in contacting relation with the inner side of said end portion, said contacting flat member and flat straight end section maintaining said two jaw members substantially parallel throughout the zone of movement of the two jaw members toward and away from each other; and a trigger member integral with said flat member and forming a finger engaging element extending into the clamp in substantially spaced relation from the side portion which forms the inside jaw member, whereby when the clamp is held in the hand the trigger member may be engaged by the finger and the clamp jaws opened by a squeezing movement of the hand.

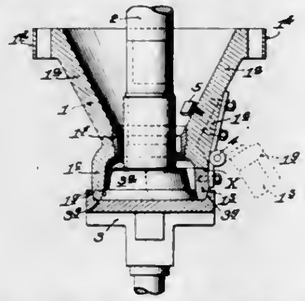
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**2,649,642**
**DIE FOR MAKING ELBOW PIPE**
**John Petresky, Jr., Patton, Pa., assignor to Patton Clay Manufacturing Co., Inc., Patton, Pa., a corporation of Pennsylvania**
**Application October 12, 1951, Serial No. 251,061**
**5 Claims. (Cl. 25—39)**

1. An extrusion and molding device for manufacturing elbow pipe having a pipe bell at one end, comprising a hollow die, said die having an extrusion portion terminating in an enlarged annular bell molding portion and said molding portion having a segment of its annular periphery



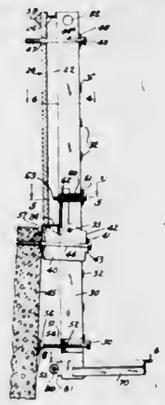
openable and hinged to the die, a core extending through said die, and a former member adapted to engage with the molding portion to maintain the segment in closed position to complete the



periphery of said molding portion and to provide a mold to form the pipe bell, said segment gravitationally hinging away from said molding portion when said former member is disengaged therefrom.

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**2,649,643**
**DAM FORM**
**William H. Schutte, San Gabriel, Calif., assignor to Noble Co., Oakland, Calif., a corporation of California**
**Application October 5, 1950, Serial No. 188,574**
**4 Claims. (Cl. 25—131)**



1. A form for use where large masses are poured in successively-built-up sections over an area, each section being poured on its solidified preceding section as a base and supported by anchoring means that are secured in said preceding section, said form including in combination: a panel; a pair of anchor blocks generally below said panel adapted to be secured to said anchoring means; a pair of parallel, spaced-apart pairs of channel members rigidly secured by one side to the outside face of said panel, being positioned so that the channeled portions face each other, and extending downwardly from said panel past said anchor block, each pair of channel members being pivotally secured to one said anchor block; a first bracket secured adjacent the lower end of each pair of channel members; a jackscrew threaded through said bracket; a pad secured on the end of said jackscrew by a ball-and-socket joint and adapted to bear against the solidified preceding section of concrete so that the screwing of said jackscrew swings each said pair of channel members about its pivot; brace members across each pair of channel members; a spring under compression between one said brace on each pair and its associated anchor block for yieldably resisting the swinging movement of said channel members and for stripping the forms from poured concrete when said jackscrews are screwed in the opposite direction from that by which the panels are swung inwardly; an upper brace member across each pair of channel members, having an opening therethrough and the panel also having an opening therethrough opposite the aforesaid opening so as to receive an additional anchoring means used to prepare a place in the concrete being poured to receive the anchoring means that will hold the anchor block when the form is raised to pour the next level; and a member pivotally secured to each said upper brace member for retaining said additional anchoring means in place.

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**2,649,644**
**BASE SEAL STRUCTURE FOR BURIAL VAULTS**
**Edward J. Lager, Davenport, Iowa**
**Continuation of application Serial No. 130,995, December 3, 1949. This application February 2, 1951, Serial No. 209,000**
**2 Claims. (Cl. 27—35)**

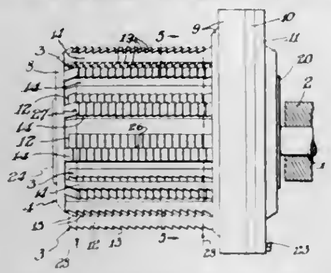


1. A burial vault comprising a horizontal base having a single upper peripheral seat and seal structure, and a cover having a single lower peripheral cap and seal structure complementary to and supportable on the peripheral structure of the base, characterized in that the base has a substantially flat horizontal casket-supporting surface bounded by a peripheral edge lying generally in the plane of said surface and the peripheral structure of the base comprises a peripheral seat in the form of an inclined plane sloping downwardly and outwardly directly from said upper peripheral edge to a lower peripheral edge at a level below said surface, a peripheral rib raised from the zone of said lower peripheral edge to a height below the level of said upper peripheral edge to form with the adjoining portion of the seat a peripheral, upwardly opening sealing channel spaced below the plane of said surface, and a coating of deformable sealing material on the seat between the channel and said upper peripheral edge; and the peripheral structure of the cover comprises a cap seat in the form of an inclined plane sloping outwardly and downwardly from an inner peripheral edge to an outer peripheral edge at the same slope as the base seat, said cap seat being interrupted by having let therein a downwardly opening peripheral sealing groove, and the length of the inclined plane of the cap seat being shorter than that of the base seat and the outer peripheral edge of the cap seat lies peripherally uphill from the base channel so that the cover may be adjustably rocked on the base from end to end and side to side with the cap seat inclined plane resting flatly on and slidable upwardly and downwardly on the base seat inclined plane whereby the cover may be centered on the base, said sealing groove lying peripherally intermediate said

outer peripheral edge of the cap seat and the peripheral edge of said casket-supporting surface, said sealing groove being defined at each side by peripheral scraping edges engaging the sealing material on the base so that pressure applied by rocking of the cover as aforesaid causes the outer peripheral edge of the cap surface to flow a portion of the sealing material into the base channel and causes at least one of the scraping edges of the cap surface groove to flow a portion of said sealing material into said groove.

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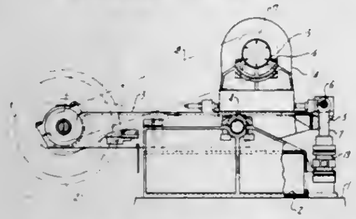
**2,649,645**
**ADVANCING REEL**
**Paul Morrison Cole, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application May 21, 1949, Serial No. 94,541**
**6 Claims. (Cl. 28—71.7)**



1. A reel for advancing a yarn in a general helical path comprising two rotatable circular cages, each comprising a plurality of parallel mounted bars; said cages being mounted on offset axes parallel with each other and with said bars; said bars being intermeshed; serrations on the said bars, the serrations on any bar of one cage being out of phase with those on adjacent bars on the other cage.

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**2,649,646**
**POWER FEED MECHANISM FOR MACHINE TOOLS**
**Jorgen Remmen, Pittsburgh, Pa.**
**Application October 12, 1949, Serial No. 120,863**
**5 Claims. (Cl. 29—69)**



1. In a power feed mechanism for machine tools or the like, a base, a beam pivotally mounted on said base, a cutting tool mounted on an extended end of said beam, an electric motor mounted on said beam for driving said tool, an hydraulic actuator for tilting said beam to feed the tool in its cutting movement, said actuator including a cylinder, a piston in said cylinder connected to the other end of said beam, and a source of pressure fluid for said actuator communicating with said cylinder on one side of the piston to maintain constant pressure on said piston in the direction to retract said beam, and valve mechanism for controlling the application of the pressure fluid to the opposite side of said actuator piston to actuate said beam in the direction of feeding the tool, said valve mechanism including electromagnetic means for actuating said valve to control the application of the pressure fluid, said electromagnetic means being electrically connected in the motor circuit to be energized in response to variations in the motor E. M. F. for varying the feeding pressure on the tool to maintain a substantially constant load on the motor.

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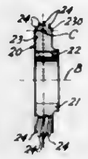
**2,649,647**
**TOOLHOLDER**
**Solon A. Sternbergh, Wyomissing Hills, and Charles S. Knabb, Stony Creek Mills, Pa., assignors, by mesne assignments, to West Shore Manufacturing Co., Reading, Pa., a corporation of Pennsylvania**
**Application August 25, 1949, Serial No. 112,324**
**13 Claims. (Cl. 29—96)**



12. A toolholder for holding a work insert of elongated form and uniform cross-section comprising, a head recessed to accommodate said insert, the inner walls of the recess being shaped to fit the inner sides of said insert and extending to the top of the head on the side of the insert opposite that from which major working stresses are directed, a movable piece having means shaped to embrace the outer sides of the insert at two substantially opposite points adjacent its working end and means for moving said piece in a direction to hold said insert against said inner walls, said moving means being a screw threadingly engaging said toolholder, movable into and out of the top thereof and provided with a tapered part adapted to bear against and move the piece.

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**2,649,648**
**SHEAR CUTTER**
**Michael Pinto, Detroit, Mich., assignor to Douglas Tool Company, Detroit, Mich., a corporation of Michigan**
**Application April 19, 1950, Serial No. 156,806**
**2 Claims. (Cl. 29—103)**



1. A rotary cutting tool comprising a flat circular plate-like disc having a substantially semi-circular axial peripheral edge cross section including a plurality of spirally disposed teeth along the said substantially semi-circular edge periphery thereof, each tooth being cut on the same spiral angle which ranges from 2 degrees to 20 degrees to a plane lying at right angles to the axis of rotation, each tooth beginning at one side of the said disc edge and ending at the other side thereof, all teeth having their cutting edges facing in the same direction.



**2,649,649**
**DAMPENING ROLL FOR LITHOGRAPHIC PRESSES**
**Harry H. Colehower, Jr., Abington, Pa., assignor to C. Walker Jones Co., Philadelphia, Pa., a corporation of Pennsylvania**
**Application December 29, 1948, Serial No. 67,890**
**2 Claims. (Cl. 29—120)**



2. A cover for a lithographic press dampening roll comprising a seamless terry cloth tube having a body closely knitted fabric and a napped outer surface formed of napped loops interknitted with the loops of the body, with the nap extending longitudinally of said cover and completely obscuring said loops, said nap being evenly distributed throughout the circumference of said cover to provide a surface adapted to contain water and evenly moisten the surface contacted during a printing operation.

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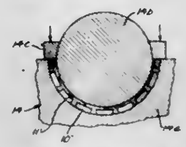
**2,649,650**
**METHOD OF REPAIRING METAL CASTINGS**
**George Javor, Chicago, Ill., assignor to Frigidweld, Inc., Chicago, Ill., a corporation of Illinois**
**Application January 10, 1948, Serial No. 1,637**
**4 Claims. (Cl. 29—148)**



1. A method of repairing cracks in metal castings consisting of forming threaded tapered holes through the casting, said holes being evenly spaced from each other and having their axes starting at one side of the crack, passing through the casting and coming out on the opposite side of the crack, adjacent holes having their axes starting on opposite sides of the crack, screwing tapered screws into the holes, said screws extending through the casting, tightening said screws evenly, vibrating the casting adjacent the crack, repeating the tightening and vibrating until the screws can be tightened no farther, grinding off the excess portions of the screws on the outside of the casting, forming threaded tapered holes in the crack between said first named screws, said holes extending partly into adjacent screws and screwing tapered screws into said last named holes.



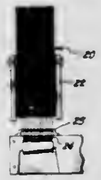
**2,649,651**
**METHOD OF FORMING A COMPOSITE BEARING**
**Arthur Townhill, Cleveland, Ohio, assignor to Thompson Products Inc., Cleveland, Ohio, a corporation of Ohio**
**Application December 22, 1947, Serial No. 793,096**
**4 Claims. (Cl. 29—149.5)**



1. The method of forming a composite bearing from two materials, respectively, a bearing material and a backing material each having substantially different thermal expansion properties, which comprises, securing a layer of the bearing material onto a surface of the backing material, forming in the exposed surface of said bearing material layer a plurality of spaced grooves, heating the composite bearing to a temperature sufficiently above the expected operating temperature of the bearing but below the melting temperature of the bearing material to flow said bearing material to substantially close said grooves while concurrently holding said layers against relative deformation with respect to one another, and thereafter cooling the bearing to separate said bearing material into a plurality of sections separated at regions corresponding to the previous locations of said grooves.

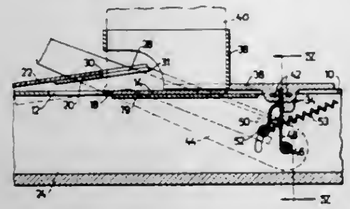
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**2,649,652**
**METHOD OF MAKING MELODY COMBS**
**Theodore R. Duncan, Hollywood, Calif., assignor to Mattel Creations, Inc., Culver City, Calif., a corporation of California**
**Original application May 24, 1948, Serial No. 28,767. Divided and this application January 21, 1950, Serial No. 139,827**
**2 Claims. (Cl. 29—169.5)**



1. The method of making a melody comb consisting of wires individually connected at one end to a base and having free ends projecting from said base to form pluckable teeth, said method comprising the steps of moving wires from lengths thereof, said wires being moved into spaced substantially parallel relationship in a common plane, stopping the moving of said wires at a predetermined station, restraining said wires from further movement out of said station, casting a metal base intimately and firmly around a portion of said wires at and adjacent said station, forcing said base, with said wires embedded therein, away from said station in the direction of said moving and substantially in the plane of the axes of said wires while thereby simultaneously pulling additional wire for a predetermined distance, and severing portions of said wires along a similar common line at said station to repeat said method.

**2,649,653**
**DEVICE FOR OPENING PACKAGES, PRIMARILY CIGARETTE PACKAGES**
**John Fredrik Wander, Stockholm, Sweden, assignor to Aktiebolaget L. Gabrielsson & Co., Stockholm, Sweden, a corporation of Sweden**
**Application July 6, 1950, Serial No. 172,306**
**In Sweden February 24, 1950**
**11 Claims. (Cl. 30—2)**

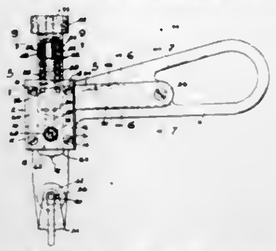


1. A device for opening packages comprising a housing having sidewalls and a top wall, an aperture in said top wall, a die secured to said top wall and extending into said aperture, a cutting edge on said die, spaced substantially parallel arms pivotally mounted on said side walls adjacent one end of said housing, a cutter carried by said arms and having a cutting edge for cooperating with the cutting edge on said die to provide a shearing action, said arms having recesses in their opposite ends, an actuating handle comprising spaced substantially parallel arms pivotally mounted on said side walls adjacent the opposite end of said housing, a cross pin connecting the arms of said handle and extending through arcuate slots in said side walls and engaging in said recesses, a slot in said top wall, a slide disposed on said top wall and having spaced guiding lugs extending through said slot, a package holder attached to said slide and disposed above said aperture, said holder being movable toward and away from said cutter and having side walls and being open at its upper and lower ends whereby a package may be disposed in said holder with the lower end thereof resting on and supported by said die, resilient means carried by said handle and engageable between said lugs whereby upon pivotal movement of said handle said resilient means will urge said holder and package carried thereby toward said cutter and said pin will move said cutter toward said die to engage and sever a portion of the edge of said package by a shearing action and resilient means to return said handle, said cutter and said holder to original position.

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**2,649,654**
**SLITTING DEVICE FOR WIRE INSULATION OR THE LIKE**
**Pierre Carta, Los Angeles, Calif., assignor to Anthony Carta, Los Angeles, Calif.**
**Application October 26, 1944, Serial No. 560,499**
**3 Claims. (Cl. 30—91)**

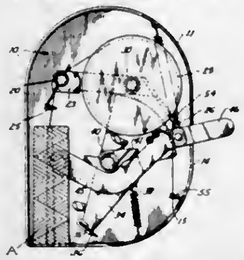
1. A slitter device of the class described, comprising, a housing, a handle extending from said housing, a detachable bracket mounted upon the rear section of said housing extending downwardly and terminating with a U-member, a wire guiding roller revolubly mounted in said U-member of said bracket for holding and for guiding the insulated wire into position, a plunger slidably mounted in said housing, a slitter knife extending from the bottom section of said plunger having inclined cutting edges and terminating with a cutting point for slitting insulation on said wire when disposed upon said wire guiding roller, a pair of cross rods mounted in said housing and passing through said plunger for guiding said plunger with said slitting knife into insulation slitting position, a head member upon the upwardly extended end of said plunger, a spring in said plunger resting upon said cross rods for maintaining said spring in a straight position and



for preventing said spring from binding therein, adjustable plug in said head member for adjusting the pressure of said spring in said plunger, and adjusting rod in said plug extending through said plunger and connecting said slitting knife for adjusting the cutting position of said knife point.

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**2,649,655**
**DISPENSING DEVICE**
**John Flaws, Jr., East Cleveland, Ohio**
**Application September 24, 1949, Serial No. 117,686**
**10 Claims. (Cl. 30—127)**



1. A dispensing device of the class described comprising a hollow housing adapted to contain a supply of cord-like material, material cutting means pivotally mounted within said housing, said means being arranged to traverse the path of travel of material within the housing adjacent to point of discharge therefrom, manually actuated means for moving the material to an accessible position exteriorly of the housing, and means responsive to the withdrawal of the material from the housing for moving said cutting means and severing the material.

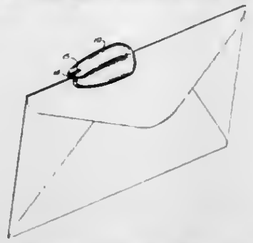
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**2,649,656**
**LETTER OPENER**
**Herman B. Hedrick, Jonesville, Va.**
**Application May 26, 1950, Serial No. 164,488**
**1 Claim. (Cl. 30—287)**

In a letter opener, a body having a forward end and a rearward end, said body being formed with a longitudinal slot in a side thereof and opening through the ends of the body, said slot having a bottom and spaced sidewalls, a first blade mounted in said body and having a free end portion extending laterally inwardly into the slot from one sidewall thereof at a point close to the slot bottom, a second blade mounted in said body and having a free end portion extending laterally inwardly into the slot from



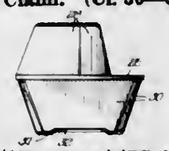
the other sidewall of the slot at a point close to the slot bottom, said free end portions of the blades having cutting edges converging toward one end of said body and located at the sides of the free end portions remote from said one end of the body, both of said free end portions of the blades being positioned in a plane extend-



ing longitudinally through said body at right angles to the slot and closely spaced from the bottom of the slot, said free end portions of the blades being located close to said one end of said body, said body being formed with an access slot in said one end thereof opening into the adjacent end of the longitudinal slot and exposing the free end portions of the blades.

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**2,649,657**
**DOUGH CUTTER**
**Rinda Shaw, Chicago, Ill.**
**Application March 31, 1949, Serial No. 84,680**
**1 Claim. (Cl. 30—305)**

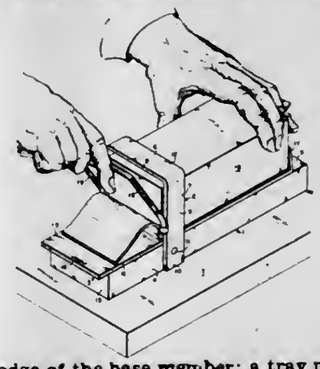


A dough cutter comprising a base member, a set of parallel, spaced blades projecting perpendicularly from said base member and having cutting edges at their outer extremities, the lateral edges of said blades tapering inwardly toward said cutting edges so that said blades can be snugly received within a container having the shape of a truncated cone, the outer extremities of said blades being undercut intermediate the lateral edges thereof forming downwardly extending cutting projections at the outer sides of said cutting edges.

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**2,649,658**
**CHEESE SLICING UTENSIL**
**Harold Laurance Nelson, Oakland, Calif.**
**Application December 18, 1950, Serial No. 201,313**
**2 Claims. (Cl. 31—32)**

1. A utensil for use in the slicing of cheese and the like comprising, in combination: a rigid body providing a base having flat parallel top and bottom plane surfaces, side walls defining substantially parallel terminal side edges for the top and bottom surfaces, and end walls defining substantially parallel terminal end edges for the top and bottom surfaces perpendicular to the side edges in said respective planes of said top and bottom surfaces; a cutter guide formed of a continuous rigid member to provide a bridge portion and two leg portions, said leg portions having two terminal hinge portions spaced apart to embrace and engage the side walls of the base, means on said base sidewalls and on the terminal hinge portions of the cutter guide legs hinging the cutter guide on the side walls to turn about an axis parallel to the top surface and parallel to the end edges of the base surfaces with the hinge axis disposed between the top and the bottom surfaces of the base, complementary detent devices formed on said cutter guide and on said base member providing for releasably detaining said cutter guide in a fixed position with respect to the top surface of the base member, the cutter guide legs providing two straight parallel edges defining a plane of cutting adjacent thereto which plane, when the cutter guide is so releasably detained by the detent devices, is approximately perpendicular to the top surface of the base member with the plane of cutting so defined displaced a distance from a near end edge of the surface which distance if of the order of the length of said cutter guide leg portions, said detent devices being constructed and arranged to allow the cutter guide to turn about the axis of hinging through approximately a right angle to allow the cutter guide to be collapsed with the bridge portion thereof to lie adjacent



the end edge of the base member; a tray member of rigid flat sheet material formed to constitute at least a portion thereof a rectangular shape and rectangular cross section to provide a flat surface having straight parallel side edges spaced apart a distance nearly equal to the distance between the side edges of the top surface of the base member and having end edges spaced apart a distance about equal to the distance between the end edges of the top surface of the base member with its side edges parallel to the side edges of the top surface of the base member between the legs of the cutter guide, and with one face of the tray resting on the top surface of the base and the other face exposed upwardly to form a support for a cheese loaf thereon, and means mounted on the base member forming parallel plane surfaces spaced apart to engage the side edges of the tray member for forcing the tray member to slide therebetween with substantially straight line motion parallel to the side edges of the top surface of the base member.

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**ERRATUM**

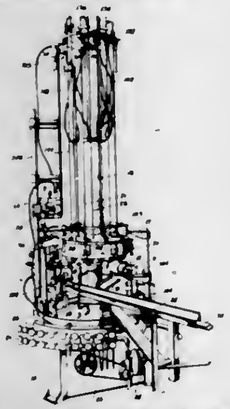
See Patent Numbers 2,649,779 through 2,649,807 for Classes 33 through 47

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**2,649,659**
**MACHINE FOR FORMING GLASS ARTICLES**
**Louis C. Kahle, Teaneck, N. J., assignor to Kahle Engineering Company, North Bergen, N. J., a copartnership**
**Application January 2, 1951, Serial No. 204,037**
**24 Claims. (Cl. 49—7)**

1. A device of the class described comprising a rotatable turret, means carried by the turret

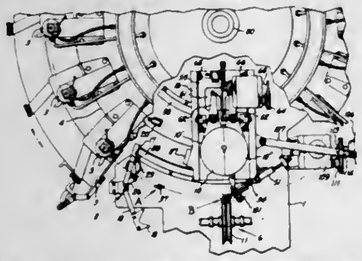
for guiding a length of glass tubing, a conduit carried by the turret having a normally open terminal end at the turret and another end adapted to be connected with said length of glass tubing, an additional conduit in proximity to said turret and spaced from but movable into and out of communication with said terminal end to convey air to said first conduit and through the latter to the interior of the glass tubing, and means for moving said additional conduit into and out of said communication.



17. In a device of the class described, the combination of a rotatable turret, tubing guide means carried by the turret, an elongated hollow member slidably mounted on the turret adjacent said guide means, tubing support means movable lengthwise of said elongated member having a ratchet connection with said elongated member and having portions connecting said elongated member with a length of tubing to conduct air from said elongated member to the tubing, an arm secured to and projecting laterally from said elongated member, and reciprocable means adjacent said turret adapted to register with said arm for moving it and said elongated member to and fro to feed the tubing support means toward the turret.

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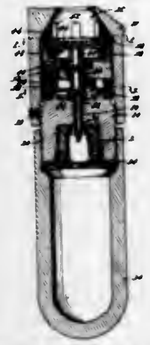
**2,649,660**
**APPARATUS FOR BENDING TUBULAR LAMPS**
**Joseph F. Ochwat, Garfield Heights, Ohio, assignor to General Electric Company, a corporation of New York**
**Application August 14, 1951, Serial No. 241,851**
**7 Claims. (Cl. 49—7)**



1. Apparatus for heating and bending a tubular lamp comprising a head for suspending the lamp in a vertical position, a carrier for advancing the head to a plurality of work stations in turn, heating means located below the head and mounted for movement therewith to one of the work stations for heating the lamp to a plastic condition, means mounted permanently at said one work station for bending the lamp to a desired configuration, control means including a vertically movable member located below the head in a position to engage the lower end of the lamp and mounted for movement therewith from the preceding station to said one work station, said control means including further means operable upon downward displacement of said movable member for effecting operation of the bending means at said one station when the lamp is heated sufficiently to sag and displace said control means downward, means also operable upon the said downward displacement of said movable member to effect return of the said movable member to said preceding station during operation of said bending means, and means for operating the aforesaid means in proper synchronization.

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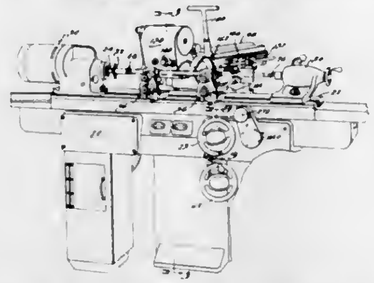
**2,649,661**
**REGULATOR VALVE**
**Otto Lamb, St. Louis, Mo., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware**
**Application August 3, 1946, Serial No. 688,197**
**2 Claims. (Cl. 50—21)**



1. In a pressure regulator of the class described, a body member open at one end and having an outlet at its other end, a shoulder in said body member adjacent said outlet, a diaphragm against said shoulder, a gas pressure chamber forming element against said diaphragm, spring means engaging said chamber forming member, a follower for said spring means, a gasket engaging said follower, a plug in the open end of said body member and engaging said gasket, a diaphragm follower in said chamber forming member, a stem projecting therefrom and through said chamber forming member, means for sealing said stem relative to said chamber forming member, a valve member on said stem outside of said means for sealing, a valve seat carried by said plug and adapted to be engaged by said valve member, and means for bypassing gas from said valve seat around said chamber forming member and said diaphragm past said shoulder to said outlet, the pressure in said outlet acting on said diaphragm in opposition to the gas trapped in said pressure forming chamber, the foregoing elements operating to reduce the flow and regulate the pressure of gas supplied to said plug and discharged from said outlet with the pressure of trapped air in said chamber forming member opposing pressure of gas in said outlet on said diaphragm and tending to open said valve when the outlet pressure on said diaphragm reduces below a predetermined minimum.



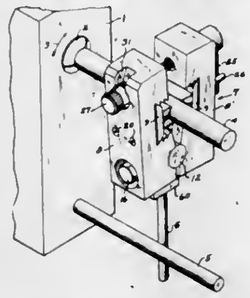
**2,649,662**
**BROACH SHARPENING MACHINE**
**Benedict Welte, Lake Orion, Mich., assignor to Colonial Broach Company, Warren Township, Mich., a corporation of Delaware**
**Application November 5, 1949, Serial No. 125,705**
**2 Claims. (Cl. 51—50)**



1. In a machine for sharpening broaches, a base, a horizontally movable slide mounted on said base, means on said slide for supporting and rotating a broach to be sharpened, means including a manually operable element disposed at one side of said base for effecting horizontal movement of said slide, a table member supported on said base remote from said one side thereof and rotatable about a vertical axis, a horizontally movable slide member mounted on said table member, a grinding wheel mounted on said slide member, means for moving said slide member horizontally, a stop secured to said slide member, adjustable stop means mounted on said table member remote from said one side of said base and including a stop element adapted to abut said stop on said slide member to limit horizontal movement of said slide member in one direction, and remote control means for adjusting said adjustable stop means and including a manually operable element mounted on one side of said base adjacent said first named element, means interconnecting said manually operable element and the said stop element of said adjustable stop means whereby an operator may readily adjust said adjustable stop means from his normal position at said one side of said base.

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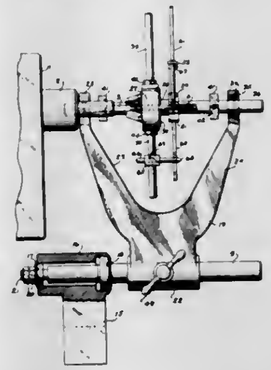
**2,649,663**
**EXTERNAL HONING DEVICE**
**Joseph Sunnen, Clayton, Mo.**
**Application August 26, 1949, Serial No. 112,538**
**16 Claims. (Cl. 51—67)**



1. A device for hone finishing the exterior surface of a revolving shaft comprising a pair of resiliently hinged jaws for embracing the shaft, a pair of oppositely disposed hones mounted in said jaws, screw means for adjusting said jaws on said hinge to bring said hones in contact with the shaft, said means including a screw having a swivel mounting in one jaw, a calibrated adjusting nut for said screw rotatably seated in the other jaw, said adjusting nut being frictionally held by its engagement with its seat against rotation by actuation of said screw, and stop means mounted on one of said jaws for limiting rotation of said screw to less than one revolution.

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**2,649,664**
**HONING MACHINE**
**Joseph Sunnen, Clayton, Mo.**
**Application January 6, 1950, Serial No. 137,124**
**6 Claims. (Cl. 51—92)**



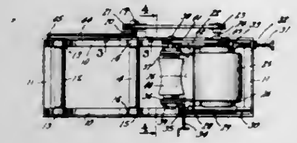
1. In a honing machine including a frame, a main driven spindle mounted in the frame and a hone arbor driven by said spindle, a stub shaft rotatably mounted in a bearing carried by the frame, said stub shaft having its axis parallel to the axis of said main spindle, a swinging supporting structure carried by the stub shaft and mounted thereon for swinging movement, spaced aligned bearings carried by said swinging structure, a shaft slidably and rotatably supported in said bearings and arranged parallel to the axis of the main spindle, a work supporting face plate supported by and movable with said sliding shaft, said face plate having a central bore for passage of said hone arbor, radially extending adjustable guide plates adjustably mounted on said face plate, said guide plates having angularly related face portions engaging and positioning one end of a work piece with respect to said bore, a clamp member normally held in general alignment with the face plate bore to removably secure the opposite end of the work piece against said face portions, and means carried by the face plate securing said clamp member against rotation in one direction.

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**2,649,665**
**TIRE TRUING DEVICE**
**Farrel L. Anderson and Glenn Bowers, Bird City, Kans.**
**Application August 14, 1952, Serial No. 304,298**
**4 Claims. (Cl. 51—104)**

1. A tire truing device for automotive wheels comprising: a base frame; an idler roller rotatably supported from said frame and extending transversely adjacent one extremity of the latter; a drive roller rotatably supported by said

base frame in parallel spaced relation to said idler roller, said rollers being adapted to support a vehicle wheel therebetween; an abrasive roller supported from said parallel frame to said first rollers; a motor; means for driving said abrasive roller from said motor; a carriage plate upon which said motor is mounted; transversely ex-



tending, tubular supporting member on said carriage plate; transversely extending guide members supported from said frame and passing through said tubular members, said tubular members being slidable on said guide members whereby said motor may be adjusted laterally; and means for moving said carriage plate longitudinally.

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**2,649,666**
**AUTOMATIC RAZOR HONER**
**Soren Rosenbeck, Bridgeport, Conn.**
**Application September 3, 1948, Serial No. 47,689**
**7 Claims. (Cl. 51—159)**

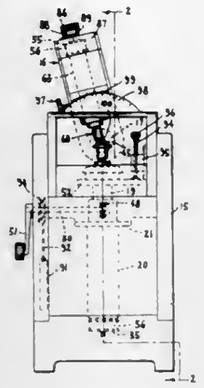


2. A blade sharpening device which comprises a base, reciprocating carriage means movable on said base, a pivotable razor holder on said carriage, cam means for reversing the position of said holder comprising a plate pivotally mounted on the carriage independently of the holder and provided with oppositely inclined cam surfaces on its opposite edges, shoulders on the base positioned to engage said cam surfaces at the limits of the movement of the carriage to shift the cam plate in opposite directions, cooperating means on the cam plate and holder to reverse the holder by opposite movements of the cam plate comprising cam surfaces on the top edges of the plate engaging the holder, a spring connected to the holder laterally of its pivotal axis to hold it in reversed positions, and a stone held in longitudinal association with said base in position to be engaged by a razor blade in the holder.

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**2,649,667**
**ABRADING DEVICE**
**Frank Cooke, North Brookfield, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts**
**Application August 25, 1952, Serial No. 306,161**
**7 Claims. (Cl. 51—209)**

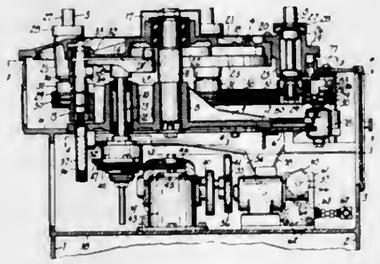
1. An abrading tool of the character described comprising a pair of annular abrading elements having different abrading characteristics and disposed one within the other, said abrading elements being coaxial with one thereof being retractable and extendible with respect to the other, and said abrading elements being provided on their adjoining sides with interfitting scallops extending alternately across a given path of generation whereby said respective elements at a given angular position of adjustment of the



tool are capable of generating curved surfaces of substantially equal radii.

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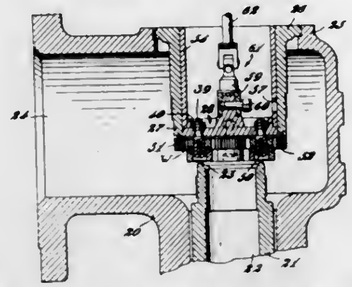
**2,649,668**
**ROTARY TURRET FOR MULTIPLE SPINDLE POLISHING AND BUFFING MACHINES**
**Clarence A. Zinn and Henry G. Perkins, Kalamazoo, Mich., assignors to Hammond Machinery Builders, Inc., Kalamazoo, Mich., a corporation of Michigan**
**Application September 6, 1949, Serial No. 114,238**
**12 Claims. (Cl. 51—237)**



6. In combination with a turret type machine having a revolvable table with a plurality of spindles mounted thereon for rotation about their individual axes, means including a variable speed transmission connected to rotate said spindles, other means including a Geneva movement connected to said table for angularly advancing said table, driving mechanism connected to said other means to drive said other means and including a one revolution clutch, a second variable speed transmission connected to and driven from the same source as said driving mechanism, a cam shaft driven by said second transmission and having a cam thereon, pneumatic means positioned adjacent to and operative when actuated to engage said clutch, a valve having a source of compressed air and positioned adjacent to said cam shaft to be opened by said cam, and a conduit connecting the outlet of said valve to said pneumatic means whereby said pneumatic means is actuated by said valve.



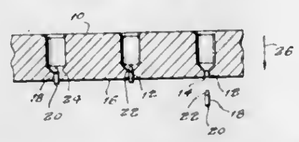
**2,649,669**
**APPLIANCE FOR LAPPING FLAT ANNULAR SURFACES OR DISKS**
**Robert A. Tobis, Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey**
**Application June 1, 1951, Serial No. 229,387**
**14 Claims. (Cl. 51—241)**



1. A lapping appliance comprising a disk-like support having an under surface which is accurately flat and perpendicular to the axis of the support, a hollow journal member coaxial with and fixed to the support, the journal member and support being of the same external diameter, a plurality of annular laps arranged at the under side of the support, a journal for each lap on which the lap may turn, the axes of the several journals being spaced apart circumferentially of the support, means for rotating the support, and means, including a fixed annular gear coaxial with said journal member operative as the support turns to turn each of the laps on its own journal.

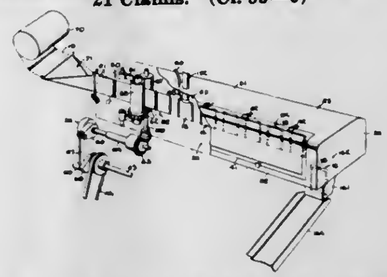
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**2,649,670**
**METHOD FOR RECONDITIONING THE EXTRUDING FACE OF SPINNERETTES**
**Wilhelm Martin and Wilhelm Heynen, Grebben, Kreis Heinsberg, Germany, assignors to Firma Vereinigte Glanzstoff-Fabriken A. G., Wuppertal (Elberfeld), Germany**
**Application July 28, 1951, Serial No. 239,078**
**In Germany July 28, 1950**
**7 Claims. (Cl. 51—281)**



1. A method for reconditioning a spinnerette having a nozzle provided with an exit opening arranged flush with the extruding face of the spinnerette, comprising the steps of placing a pin into the nozzle of the spinnerette so as to close the exit opening of the nozzle; mechanically treating the extruding face of the spinnerette so as to smoothen the same while the exit opening of the nozzle is closed by said pin; and pushing said pin toward the extruding face of the spinnerette through the exit opening of the nozzle after the extruding face of the spinnerette has been mechanically treated, whereby the exit opening of the nozzle is protected against damage during the mechanically treating of the extruding face of the spinnerette.

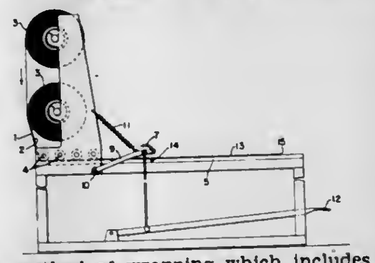
**2,649,671**
**METHOD OF AND MACHINE FOR PACKAGING MATERIAL IN AN INERT GASEOUS ATMOSPHERE**
**Harold L. Bartelt, Rockford, Ill., assignor of forty-five per cent to Donald E. Bartelt**
**Application December 10, 1949, Serial No. 132,378**
**21 Claims. (Cl. 53—6)**



1. In a packaging machine, the combination of, a casing defining a chamber having a slit in one wall thereof, means for introducing a non-oxidizing gas into said chamber and maintaining the same under pressure therein, mechanism for supporting two strips of flexible material side by side and advancing the same periodically in successive steps endwise along a path extending through said slit and into said chamber, sealing elements disposed outside of said chamber and operable to cross-seal said strips to form pockets opening upwardly at one end, a cutter disposed within said chamber and operable during a dwell of said strips to sever the latter along the cross-sealed portions thereof and divide said pockets into separate bags, grippers within said chamber engageable with each bag, a conveyor mounting said grippers and movable to advance said bags beyond said path, a bag opener disposed within said chamber for engagement with the walls of each bag adjacent the open end thereof and operable to separate the walls and create a vacuum in the bag for drawing the gas into the same through said open end, a filler operable to deliver a measured quantity of material through a wall of said chamber into said bag while the latter is held open, and sealing elements within said chamber engageable with the filled bag and operable to seal the walls of the bag across said open end.

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**2,649,672**
**METHOD OF WRAPPING IN MULTI-PLY MATERIAL**
**Joseph B. Thompson, Toronto, Ontario, Canada, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**Application May 19, 1950, Serial No. 162,849**
**1 Claim. (Cl. 53—8)**

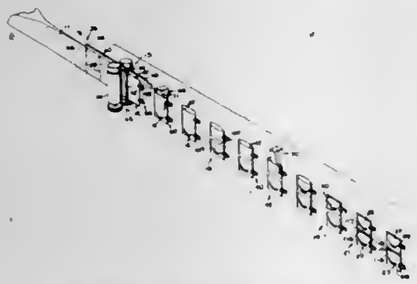


The method of wrapping which includes the steps of partially unrolling two films of rubber

hydrochloride with their side edges coinciding, one of the films being thinner than the other, bringing the films into face-to-face contact, simultaneously cutting across both films, unrolling the same length of film from both rolls and again simultaneously cutting across both films, and thermally uniting the films at both cuts simultaneously with the cutting operations, placing the article to be wrapped in contact with the thinner of the two plies, and then wrapping the article in the two-ply sheet.

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**2,649,673**
**PACKAGING MACHINE**
**Harold L. Bartelt, Rockford, Ill., assignor of forty-five per cent to Donald E. Bartelt**
**Application April 23, 1952, Serial No. 283,962**
**5 Claims. (Cl. 53—86)**

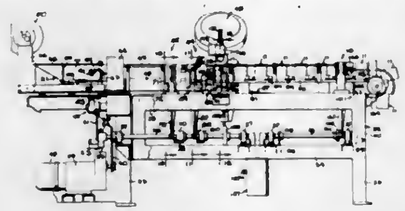


1. A packaging machine, having in combination, means for supporting a row of spaced bags open end up and advancing the bags step by step to present each bag to and dwell the same in a plurality of positions uniformly spaced along the path of travel of the bags, mechanism disposed at one of said positions to deposit in the bag at such position a charge of material partially filling the lower half portion of the bag, means operable on the bag dwelling in a succeeding position to seal the bag closed along a line disposed between the top and bottom edges and above the level of the material in the bag, filling mechanism operable to deposit into the bag dwelling in a subsequent one of said positions a charge of material partially filling the remaining upper part of the bag, means at a subsequent position to form a seal across the open end of the bag, and mechanism at a subsequent position to divide the bag into two separate parts along a line intermediate the edges of said cross seal whereby to preserve the seal at the upper end of the lower bag portion and at the lower end of the upper bag portion.

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**2,649,674**
**PACKAGING MACHINE**
**Harold L. Bartelt, Rockford, Ill., assignor of forty-five per cent to Donald E. Bartelt**
**Application June 13, 1949, Serial No. 98,660**
**16 Claims. (Cl. 53—89)**

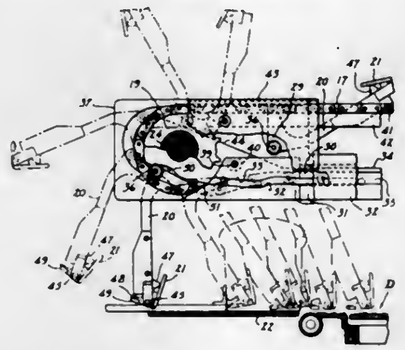
1. In a packaging machine, the combination of, means supporting a length of bag material including two side strips disposed side by side in a vertical plane and guiding the same endwise along a predetermined path, feed mechanism engageable with said strips and operable to advance the same step-by-step along said path, said mechanism being adjustable selectively to vary the length of the advance, a unit engageable with said strips on opposite sides thereof to seal the strips together transversely at spaced points and thereby form a succession of connected bags, a unit engageable with said strips beyond said sealing unit and operable to cut off the strips within a previously formed seal, means supporting said units for adjustment longitudinally of said path to vary the width of the bags, a conveyor alined with said strips and movable along



said path, means on said conveyor receiving the leading end of said strips at the end of each advance thereof and before operation of said cut-off unit, and mechanism operable intermittently after operation of said sealing and cut-off units and during dwelling of said strips to advance said conveyor and the previously cut-off bag through a fixed distance greater than the width of the bags.

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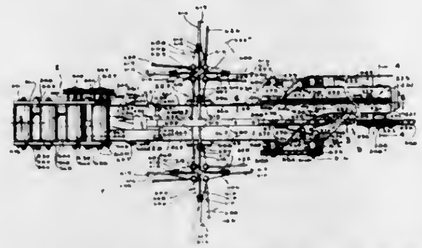
**2,649,675**
**ARTICLE TRANSFER MECHANISM FOR BREAD WRAPPING MACHINES**
**Edward G. Schrage, Rock Island, Ill., assignor to The Bettendorf Company, Bettendorf, Iowa, a corporation of Maryland**
**Application October 6, 1950, Serial No. 188,791**
**7 Claims. (Cl. 53—121)**



1. In a wrapping machine, a folding and sealing runway, an elevator movable to carry articles to a position in alinement with one end of said runway, means for rapidly moving articles from said elevator to said runway and for moving them at a lower speed along the runway including an article pusher movable in continuous engagement with the article over the elevator and along said runway, and pusher actuating means including means for increasing and decreasing the speed of said pusher during its movement in pushing engagement with the article and acting to move said pusher and article over the elevator at relatively high speed, to reduce the speed of the pusher and the article in the entrance portion of said runway and to move the pusher and the article at a substantially constant speed less than said high speed along said runway.



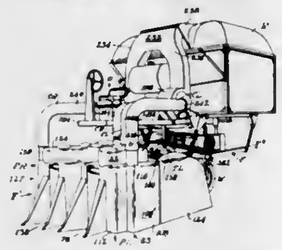
**2,649,676**
**APPARATUS FOR HANDLING CARTONS**
**Charles E. Kerr and Roscoe Elsheimer, Hoopeston, Ill., assignors to Food Machinery and Chemical Corporation, a corporation of Delaware**
**Original application July 8, 1946, Serial No. 681,980. Divided and this application December 19, 1947, Serial No. 792,688**
**17 Claims. (Cl. 53—138)**



1. A machine for handling cartons emerging from a carton filling machine in endwise position, each carton having a hinged cover disposed in open position and with the flange of the cover collapsed upon the underside of the cover substantially within the confines thereof comprising a conveyor for receiving the cartons and for advancing them endwise in a continuous uninterrupted flow along a predetermined path, means associated with the conveyor for turning the cartons sidewise with the open covers disposed in leading position, means associated with the conveyor for engaging the edge of the collapsed cover flange of each carton passing-by in a manner effective to erect said flange, and means cooperating with the flange erecting means for closing the cover of each carton while the flange thereof is in open position, said closing means comprising a pair of freely rotatable rolls and a cover guide disposed between the same and extending downwardly and rearwardly therefrom toward said conveyor terminating at a height thereabove substantially equal to the height of the cartons.

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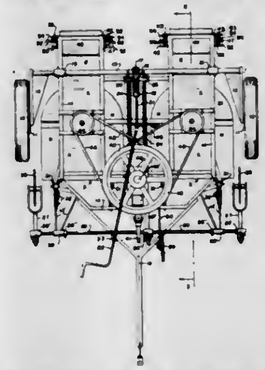
**2,649,677**
**MULTIROW CROP HARVESTER**
**Louis A. Paradise, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application April 13, 1951, Serial No. 220,898**
**1 Claim. (Cl. 56—14)**



A harvester for picking cotton in a field in which the cotton has been planted in uniformly spaced parallel rows, comprising: a vehicle frame including a transverse axle structure and right- and left-hand wheels carrying the frame for advance over the field with the frame centered on the centerline between two adjacent parallel rows and with the right- and left-hand wheels spaced apart to straddle, and to travel respectively closely along the right- and left-hand sides of, said two rows, the relationship between said axle structure and wheels being such as to provide a mounting space between the wheels and ahead of the axle structure; cotton-handling mechanism positioned ahead of the axle structure and supported on the frame, said mechanism including a pair of right-hand picking devices for picking cotton from both sides of the right-hand one of said two rows and a pair of left-hand picking devices for picking cotton from both sides of the left-hand one of said two rows; said mechanism further including a right-hand pair and a left-hand pair of suction conduits communicating respectively with the picking devices for carrying away cotton picked by said devices; suction fan means carried by the frame and including right- and left-hand fan housings spaced apart transversely, each housing being partitioned into two compartments and each compartment including a separate inlet, a separate fan, and a separate outlet; means for driving the fans of each housing simultaneously; four cotton-conveying conduits connecting the suction conduits respectively with the inlets of the fan housings; and a single discharge conduit having a pair of branches, one branch connected and common to the outlets of one housing and the other branch connected and common to the outlets of the other housing.

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**2,649,678**
**DISK TYPE POTATO VINE CUTTER**
**Julius Sishc, Torrington, Wyo.**
**Application December 30, 1949, Serial No. 135,866**
**10 Claims. (Cl. 56—25.4)**

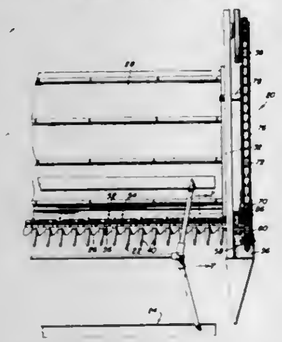


1. An implement of the character described comprising a frame wheel-supported for translation, altitudinal adjustment, and oscillation in a vertical arc on a single, transverse axle, means for connecting the forward end of said frame to and in trailing relation with a tractor, like coulters operatively depending in laterally-spaced relation from and for simultaneous selective altitudinal adjustment relative to the frame forward portion, forwardly-directed elevating and directing points fixedly depending in spacedly-paired opposition from the frame forward portion inwardly and rearwardly adjacent said coulters, a frame-mounted, end and bottom open, partial housing trailing and centered between each pair of said points to receive the delivery therefrom, altitudinally-spaced bars fixedly spanning each said housing transversely of the frame, a shaft rotatably and centrally intersecting the bars of

each said housing perpendicular to the plane of said frame, radial blades on and rotatable with said shaft spacedly adjacent and for cutting cooperation with the housing bars, means for engaging said shaft in driven relation with the power take-off of a frame-towing tractor, and a ground-engaging roller adjustably depending from the frame rearward portion in trailing relation with each said partial housing.

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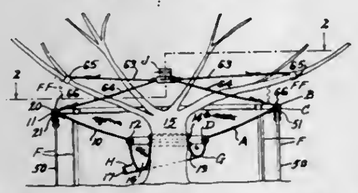
**2,649,679**
**SICKLE GUARD GRAIN COLLECTING TROUGH**
**Claude M. Hawkins, Anderson, S. C.**
**Application May 19, 1949, Serial No. 94,236**
**1 Claim. (Cl. 56—207)**



In a harvester having front and rear ends, the combination of a horizontal support member extending transversely of the front end of the harvester, a substantially cylindrical horizontal trough disposed parallel to and forwardly of said support member and having an open top to receive falling grain, said support member and said trough being substantially equal in length, said trough affording horizontal front and rear upper edges at the open top thereof, the trough comprising a plurality of coaxial sections having abutting adjacent ends, a rearwardly projecting flange provided at the rear upper edge of each trough section and underlying said support member, and a set of fastener elements securing the flange of each section to said member, whereby the sections may be selectively and individually replaced.

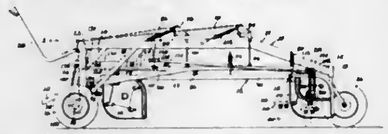
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**2,649,680**
**FRUIT GATHERER APRON**
**Hugh F. Brown, Oakland, Calif.**
**Application May 29, 1951, Serial No. 228,861**
**17 Claims. (Cl. 56—329)**



1. An apron, including in combination, an annular sloping apron having an outer periphery and an opening spaced inwardly from said outer periphery, said apron having a slit dividing the apron between said inner opening and its outer periphery,. and an inflatable member secured around the outer periphery of said apron.

**2,649,681**
**SIDE DELIVERY RAKE**
**George B. Hill, New Holland, Pa., assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa**
**Application October 11, 1950, Serial No. 189,650**
**4 Claims. (Cl. 56—377)**



1. In combination, a side delivery rake having a frame structure, a rotatable rake cylinder pivotally suspended from said frame structure, rear ground wheel means supporting said frame structure, laterally spaced depending axle supports rigidly connected to the forward end of said frame structure, and forward ground wheels journaled on said axle supports, said supports extending downwardly in a substantially transverse vertical plane below said frame whereby said forward ground wheels are positioned completely below said frame structure.

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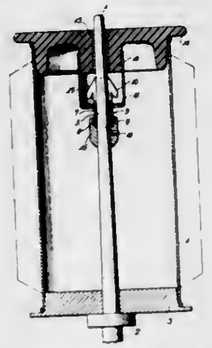
**2,649,682**
**WHEEL AND SHAFT MOUNTING FOR SIDE DELIVERY RAKES**
**Walter H. Newmaster, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa**
**Original application December 23, 1949, Serial No. 134,709. Divided and this application April 16, 1952, Serial No. 282,614**
**4 Claims. (Cl. 56—377)**



1. A wheel and drive mounting assembly for attachment to an upright support, comprising: a tubular carrier positionable horizontally across the support and having means providing a bearing on a horizontal axis, opposite ends of said carrier projecting respectively at opposite sides of the support; means on the carrier for removably securing the carrier to the support; a gear housing removably mounted on the carrier at one end thereof and independent of the support so as to be separable from the carrier as well as removable as a unit with the carrier from the support; a shaft journaled in the carrier bearing means and having an inner stub end projecting into and enclosed by the housing and an outer end extending outwardly beyond the opposite end of the carrier; a wheel on the outer end of the shaft; a drive member on the shaft outside the housing and intermediate the wheel and said opposite end of the carrier; a second drive member at the inner side of the support and projecting into and enclosed by the housing; and driving mechanism within the housing for operatively interconnecting the inner end of the shaft and the housing-contained portion of the second drive member.



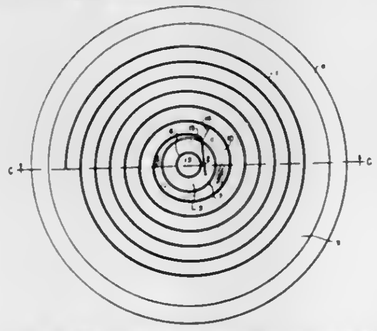
**2,649,683**
**LOCKING DEVICE FOR CAPS OF UP-TWISTER MACHINES**
**William V. Henry, Candler, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware**
**Application December 19, 1951, Serial No. 262,460**
**3 Claims. (Cl. 57—59)**



2. A locking device for an up-twister cap comprising an elastic member adapted for attachment to a spindle, said member being comprised of a tubular stem having at its upper end an overhanging mushroom shaped extension, said extension and said tubular stem portion subjacent thereto having a plurality of vertical slits therein, whereby the upper part of said member will expand when actuated by centrifugal force to prevent said cap from being thrown off when said spindle rotates.

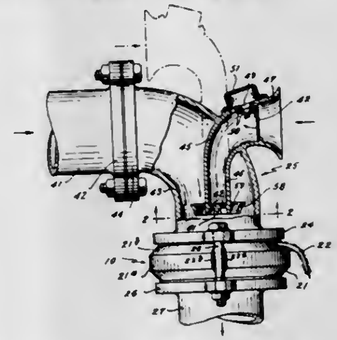
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**2,649,684**
**HAIRSPRING ASSEMBLY**
**Thomas P. Dolby, Elgin, Ill., assignor to Instrument Springs Manufacturing Company, Elgin, Ill., a corporation of Illinois**
**Application February 10, 1949, Serial No. 75,593**
**4 Claims. (Cl. 58—115)**



1. In a hair spring assembly, a spiral hair spring, a collet having an opening for assembling it to a balance staff, a ring shaped opening having thin outer and inner walls, a slot through the outer wall through which the inner end of the spring extends, and a mass of low melting point material hardened around the end of said spring in said ring-shaped opening around said end and thereby rigidly securing said inner end of the spring within said slot with the coils of the spring in a predetermined proper relationship with the axis of the collet.

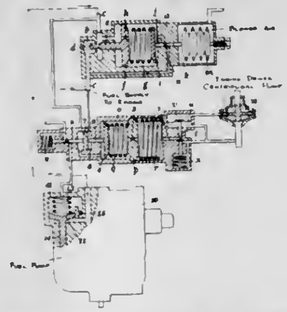
**2,649,685**
**CARBON MONOXIDE ELIMINATOR**
**Herman Cohen, Brookline, Mass.**
**Application August 4, 1949, Serial No. 108,621**
**3 Claims. (Cl. 60—30)**



3. A carbon monoxide eliminator connectable in the exhaust conduit of an internal combustion engine and comprising a gas convertor unit adapted to be clamped between coupling flanges on parts of said conduit and having a metallic ring, an annular insulator provided with a plurality of radial openings disposed within and lining the metallic ring, at least one spark plug removably mounted in said ring and having an electrode projecting inwardly through one of said openings, at least one ground conductor mounted in the opposite side of said ring and projecting inwardly through another of said openings, and a conductor for high tension current connected to said plug for producing a flaming spark between said electrode and ground conductor, said insulator having an interior annular flange for deflecting toward its center the exhaust gases passing through said unit.

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**2,649,686**
**APPARATUS FOR CONTROLLING THE SUPPLY OF LIQUID FUEL TO THE COMBUSTION CHAMBERS OF PRIME MOVERS**
**Owen Napier Lawrence, Dorridge, Thomas Alfred Harris, Edgbaston, Birmingham, and William Fleming, Waddington, Clitheroe, England, assignors to Joseph Lucas Limited, Birmingham, England**
**Application February 20, 1950, Serial No. 145,182**
**In Great Britain February 3, 1949**
**5 Claims. (Cl. 60—39.28)**

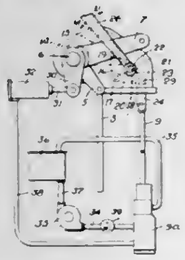


1. Apparatus for controlling the supply of liquid fuel from a pump to a prime mover having associated with it a blower for supplying the air required for combustion of the fuel, comprising the

combination of a member provided with an orifice through which liquid fuel from the pump can flow on its way to the prime mover, a throttle valve arranged to set up a pressure difference in the fuel at opposite sides of the orifice, a liquid-operated servo-mechanism for regulating the throttle valve, a second valve for controlling the servo-mechanism, means responsive to blower air pressure for actuating the second valve, another servo-mechanism for controlling the rate of supply of fuel to the prime mover, and means responsive to the said pressure difference and a pressure related to the speed of the prime mover for controlling the last mentioned servo-mechanism.

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**2,649,687**
**HYDRAULIC CONTROL FOR DEPTH OF AN IMPLEMENT DRAWN BY A TRACTOR**
**Pierre Etienne Tronquit, Suresnes, France, assignor to Societe Française de Materiel Agricole et Industriel (Societe Anonyme), Vierzon, France, a French corporation**
**Application September 8, 1949, Serial No. 114,531**
**In France June 27, 1949**
**5 Claims. (Cl. 60—52)**

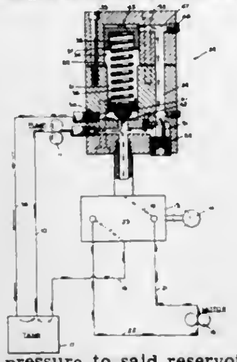


5. In a hydraulic system for controlling the movements of a lifting and lowering mechanism in combination, a piston and cylinder motor for actuating said lifting and lowering mechanism and a multiple fluid control valve connected therewith for controlling the flow of fluid in the system, said valve including a flow control valve normally held in closed position for controlling the flow from said multiple valve to bypass said motor, a flow control valve normally held in closed position but actuatable by increased fluid pressure in said multiple valve for controlling the flow from said multiple valve to said piston and cylinder motor, push-rod means for positively actuating said first-named flow control valve, and means for moving said push-rod means into and out of engagement with said first-named flow control valve, said push-rod moving means having an adjustable resilient valve engaging end.

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**2,649,688**
**FEED CONTROL FOR HYDRAULIC MOTORS**
**Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application July 24, 1952, Serial No. 300,606**
**5 Claims. (Cl. 60—52)**

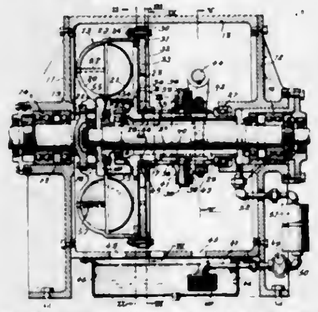
1. In an hydraulic system having a reservoir, a pump and a motor operated by said pump with a control valve for said motor interposed between said pump and said motor, said control valve being so operable that in a neutral position thereof said pump operates against substantially no back pressure, the combination therewith of a feed control for said motor interposed between said pump and said control valve comprising a body having a first passageway therein connected to said pump, a second passageway intersecting said first passageway and connected to said control valve, a bore coaxial with said second passageway, said bore having a diameter larger than said first passageway so as to form a valve seat at the juncture of said bores, a piston member slidable in said bore and having a needle valve adapted at times to close on said seat, said piston member and said needle valve being movable in response to increase in pressure occurring upon actuation of said control valve to a position supplying pressure fluid to said motor to relieve



part of said pressure to said reservoir, a second piston member with resilient means interposed between said first piston member and said second piston member, a passageway connecting said first passageway so as to make the pressure in said first passageway effective against said second piston member, and a throttling member in said last named passageway for controllably regulating the pressure against said second piston member while said motor is being supplied with pressure fluid, said last named piston member and its associated resilient means being operable to move said first piston member to a position where it is no longer relieving said pressure.

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**2,649,689**
**ROTARY HYDRAULIC COUPLING**
**Carl A. Oding, Alameda, Calif., assignor, by direct and mesne assignments, to Planamatic Corporation, Oakland, Calif., a corporation of California**
**Application September 8, 1949, Serial No. 114,530**
**12 Claims. (Cl. 60—54)**

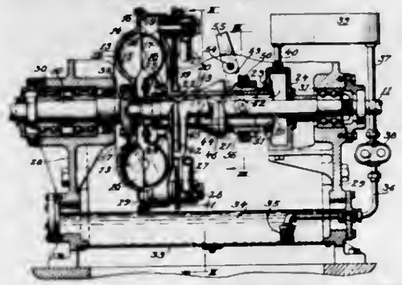


1. In a fluid coupling of the vortex chamber type, the combination of driving and driven coupling members arranged in opposed relation and forming a fluid vortex supporting chamber, one of said coupling members being extended and constructed to form an auxiliary chamber externally of the vortex chamber formed by said coupling members and into which fluid discharged from said vortex chamber may accumulate, an annular plate secured to the extended portion of said latter coupling member and forming an end wall for said auxiliary chamber, said annular plate having a plurality of radially extending elongated ports formed therein, an annular valve member rotatable with and mounted in cooperating relation with said annular plate having a plurality of angularly disposed ports arranged in intersecting relation with the radially extending ports of said annular plate, and means for rotating said annular valve member relative to said annular plate to vary the point of intersection between the cooperating ports thereof while the coupling is in operation and thus determine the level of fluid which can centrifugally accumulate within said auxiliary chamber.



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**2,649,690**
**VARIABLE SPEED ROTARY FLUID COUPLING**
**Carl A. Oding, Alameda, Calif., assignor, by direct and mesne assignments, to Planamatic Corporation, Oakland, Calif., a corporation of California**
**Application April 28, 1947, Serial No. 744,385**
**4 Claims. (Cl. 60—54)**

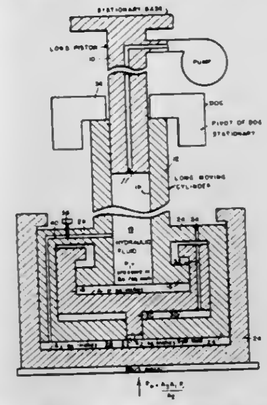


1. A hydraulic coupling, including a driving member and a driven member, said members comprising primary and secondary elements and being arranged in juxtaposed relation to form a vortex supporting chamber therebetween for the circulation of a kinetic energy transmitting fluid, fluid supply means for introducing a continuous flow of kinetic energy transmitting fluid into said vortex supporting chamber, a fluid discharge conduit hinged upon and rotatable with one of said members forming an open ended inwardly extending fluid discharge outlet externally of said vortex chamber through which fluid will be centrifugally discharged from the outer perimeter of said vortex supporting chamber when the coupling is in operation, and means for swinging said fluid discharge conduit about its hinged connection upon said member to thus vary the position of its discharged outlet within the radial limits of said vortex chamber and with respect to the axis of rotation of the coupling to thus control and maintain any desired operating level of fluid in said vortex supporting chamber.

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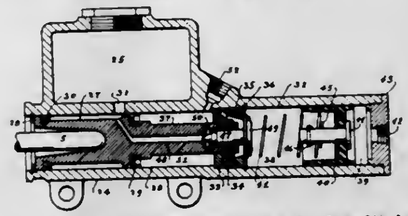
**2,649,691**
**HYDRAULIC EXPANSION DEVICE**
**Ervin G. Johnson, Oakland, Calif.**
**Application December 2, 1949, Serial No. 130,829**
**6 Claims. (Cl. 60—54.5)**

1. A movable fluid pressure multiplying expansion unit for the purpose of expansively engaging juxtaposed areas of engagement of opposed spaced apart reaction members to cause them to experience expansive forces tending to separate them comprising, in combination: two fluid pressure responsive members providing a first variable volume pressure chamber therebetween and providing a pair of opposed complementary pressure areas partially defining walls for such chamber and each member further providing an exposed surface of engagement for directly engaging the juxtaposed areas of such reaction members; a third fluid pressure responsive member, said third pressure responsive member and one of said first mentioned two pressure responsive members together providing a second variable volume pressure chamber therebetween and providing opposed complementary pressure areas partially defining walls for said second chamber; and means for transmitting the entire thrust of the third member into the first chamber.



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**2,649,692**
**MASTER CYLINDER FOR HYDRAULIC BRAKING SYSTEMS**
**William Stelzer, Summit, N. J.**
**Application January 9, 1950, Serial No. 137,502**
**5 Claims. (Cl. 60—54.6)**



1. In a master cylinder for a hydraulic braking system having wheel cylinders to apply the brakes, a manually operable piston in said master cylinder to transmit fluid to said wheel cylinders, a residual pressure piston arranged to slide in said master cylinder ahead of said manually operable piston, spring means intermediate said residual pressure piston and said manually operated piston to bias said residual pressure piston in a brake applying direction to produce a slightly higher pressure in said wheel cylinders and to yieldingly urge said manually operated piston into the released position, a fluid reservoir, a check valve in said manually operable piston to facilitate the flow of fluid

from said reservoir to the space intermediate said pistons, a stop to open said check valve in the released position of said manually operable piston, and check valve means to facilitate the flow of fluid from the primary side of said residual pressure piston to said wheel cylinders.

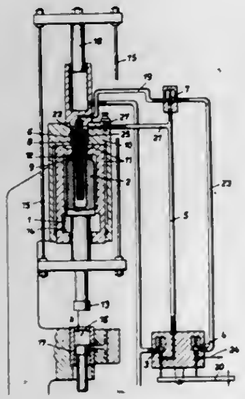
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**2,649,693**

## HYDRAULICALLY DRIVEN WORKING MACHINE FOR DIE-CASTING, INJECTION MOLDING, AND THE LIKE

**Wilibald A. Venus, Munich, Germany, assignor to Hahn & Kolb, Stuttgart-N, Germany**

**Application September 28, 1949, Serial No. 118,284**
**In Germany October 1, 1948**
**5 Claims. (Cl. 60—97)**



1. In die-casting, injection molding and like hydraulically operated working machines comprising a hydraulic main cylinder, a main piston in the cylinder, an auxiliary piston in the main piston, a cylinder for the auxiliary piston formed by and in the main piston, a pressure fluid supply conduit common to both cylinders, a check valve having a movable valve member, an inlet valve in said conduit, said conduit having two branches, one of which connects by the check valve with the interior of the auxiliary cylinder and the other branch connects with the main cylinder, the movable valve member of said check valve closing automatically when the pressure on its backside in the direction of the flow is at least approximately equal to the pressure on its front side, an outlet valve arranged on the back pressure side of said check valve, said main and auxiliary cylinders being arranged with respect to their pistons that, under the influence of the pressure submitted from said common supply conduit, the pistons will perform the working stroke of said machine so that first the auxiliary piston begins moving and after being stopped by an abutment of the main piston, the working stroke is continued by both pistons, control means to interrupt and respectively fully open the connection between the second-mentioned branch and the main cylinder, the movement of said auxiliary piston immediately before contacting the abutment causing the opening movement of said control means so that the fluid through said second-mentioned branch may enter the main cylinder and initiate the stroke of the main piston which, by increasing the pressure in the auxiliary cylinder automatically closes the check valve, thereby locking the pressure fluid within said auxiliary cylinder for the further common travel of the working stroke.

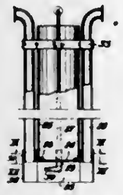
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**2,649,694**

## METHOD AND DEVICE FOR DRIVING TUBULAR BODIES INTO THE GROUND BY MEANS OF FLUID JETS

**Edgard Pickman, Schaerbeek-Brussels, Belgium, assignor to Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, Liege, Belgium**

**Application July 22, 1949, Serial No. 106,306**
**In France July 27, 1948**
**11 Claims. (Cl. 61—80)**



3. Apparatus for forming a tubular hole in the ground, comprising, in combination, an elongated tube having an open bottom end and adapted to be sunk into the ground with said open bottom end first; wall means associated with said tube for movement therewith into the ground, said wall means forming beyond said open bottom end of said elongated tube a chamber having an open bottom; conduit means located adjacent said tube on the outside thereof and communicating with said chamber for leading fluid thereto to loosen the ground under said open bottom of said chamber and to form within said chamber a mixture of the fluid and loosened ground; duct means also located adjacent said tube on the outside thereof and communicating with said chamber to carry away therefrom the mixture of fluid and loosened ground, said duct means comprising a plurality of tubular members extending along the length of said elongated tube and each being removably connected adjacent one of the ends thereof to said chamber; and removable cover means located at said bottom end of said tube for temporarily covering said bottom end of said tube to seal the interior thereof from said chamber so as to prevent the mixture of fluid and loosened ground from entering said tube, whereby building material may be introduced through said elongated tube into the formed tubular hole after said cover means is removed and simultaneously with the removal of said elongated tube from the hole formed in the ground.

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**2,649,695**

## APPARATUS FOR DEFROSTING LOW-TEMPERATURE COOLING COILS

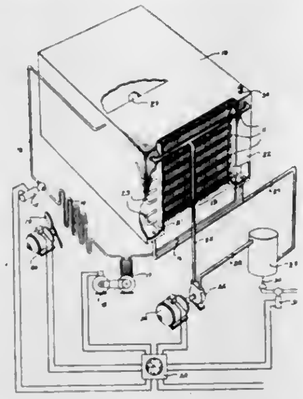
**Edwin Kohlstedt, Alta, Iowa**

**Application April 10, 1950, Serial No. 154,924**
**2 Claims. (Cl. 62—4)**

1. In a blower finned type refrigerating unit having cooling coils with portions thereof that extend beyond the fins; said refrigerating unit also equipped with a compressor, tanks surrounding the coil portions of said refrigerating unit that extend beyond the fins thereof, a valve in the cooling system of said blower finned type refrigerating unit between the compressor and cooling coils, a pump, a reservoir, conduits communicating between said reservoir, heatable fluid



in said reservoir, said pump and said tanks making a closed circuit, means secured near said



reservoir for heating its contents at times, and means for driving said pump at times.

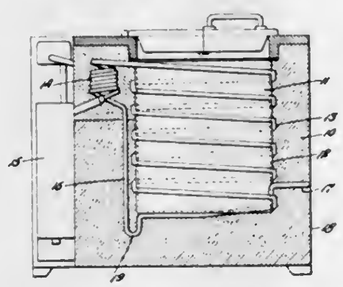
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**2,649,696**

## EVAPORATING-CONDENSING HEAT TRANSFER SYSTEM

**John Gudbrand Tandberg, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden**

**Application November 23, 1945, Serial No. 630,273**
**In Sweden December 22, 1944**
**4 Claims. (Cl. 62—95)**



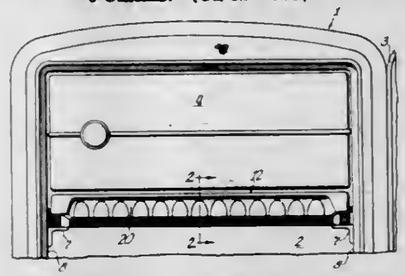
1. In combination with refrigeration apparatus comprising a cabinet having inner and outer walls and insulation therebetween, said inner wall defining a space, and primary cooling means, a secondary heat transfer circuit adapted to contain a vaporizable heat transfer agent, said circuit including a heat absorbing portion arranged to abstract heat from the space and a heat rejecting portion, said heat rejecting portion being arranged to be cooled by the primary cooling means to effect vaporization of said agent in said heat absorbing portion and condensation of the vaporized agent in said heat rejecting portion, and a part connected to receive condensed agent from said heat absorbing portion below the liquid level normally maintained therein during operation of said circuit, said part extending in the gap between said inner and outer walls and being constructed and arranged to promote evaporation of condensed agent therein and deliver such vapor to said heat absorbing portion.

**2,649,697**

## COMBINED DEFROST PAN AND STORAGE TRAY

**Ray C. Sandin, Oak Park, Ill., assignor to General Electric Company, a corporation of New York**

**Application December 26, 1951, Serial No. 263,359**
**6 Claims. (Cl. 62—103)**



1. In combination, a refrigerator defrost pan having spaced wall portions extending forwardly of a front wall thereof, and a tray-forming structure secured to and extending between said extending wall portions, the rear wall of said tray-forming structure being spaced forwardly of said pan front wall; said tray-forming structure having a top wall spaced above said pan front wall and sloping rearwardly and downwardly into overlapping relation therewith.

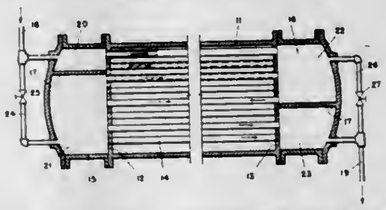
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**2,649,698**

## SPECIAL VALVE ARRANGEMENT ON CENTRIFUGAL CONDENSERS AND COOLERS

**Philipp Goldmann, Forest Hills, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware**

**Application March 18, 1949, Serial No. 82,232**
**4 Claims. (Cl. 62—115)**



1. In a condenser arrangement for a centrifugal refrigeration machine, the combination of a shell, a plurality of longitudinally extending tubes in the shell through which condenser water passes, refrigerant from the refrigeration machine passing through the shell exterior of the tubes, compartments at opposite ends of said shell, a supply line for condenser water connected to a chamber in the compartment at one end of the shell, a bypass connecting the supply line to a second chamber in said compartment, a valve in the bypass, a discharge line connected to a chamber in the second compartment, a second bypass connecting the discharge line with a second chamber in the second compartment, and a second valve in said bypass, the opening of the two valves permitting the condenser water to make only a single pass through the shell resulting in the refrigerant being condensed, and the closing of the two valves permitting the condenser water to make a plurality of passes through the shell resulting in the condenser water being heated so that it may be used as a source of heat.

**2,649,699**

## REFRIGERATOR CABINET

**Charles G. Minor, Evanston, Ill., assignor of one-half to Albert G. McCaleb, Evanston, Ill.; Harry H. Gmeiner, executor of said Charles G. Minor, deceased; Ruth F. McCaleb, executrix of said Albert G. McCaleb, deceased**

**Original application February 21, 1946, Serial No. 649,240, now Patent No. 2,537,367, dated January 9, 1951. Divided and this application May 25, 1950, Serial No. 164,111**

**8 Claims. (Cl. 62—117.4)**



1. A refrigerator assembly comprising, in combination, an outer casing including a base, a back wall and end walls, a heat insulated box-like housing fitting between said end walls of the outer casing, means including side panels having angularly disposed lower edge portions and trunnion supports carrying said box-like housing at a distance above said base for rocking movement between said end walls and from and toward said back wall, said box-like housing having an upright position and a forwardly tilted position, in each of which positions said box-like housing is supported through one of said angularly disposed edges of each of the side panels, a refrigerating unit housed in the space between said base and the box-like housing, said box-like housing being spaced from the back wall of the outer casing to provide an air passage communicating with the space below the box-like housing, and hingedly supported means for covering the space between the base and box-like housing and movable with the box-like housing, the last mentioned means having louvers therein for the passage of air.

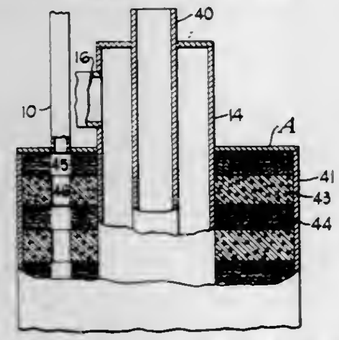
**2,649,700**

## ABSORPTION-REFRIGERATING APPARATUS

**Glenn T. Piper, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**

**Application May 21, 1949, Serial No. 94,599**

**11 Claims. (Cl. 62—118)**




1. Absorption refrigerating apparatus comprising a generator-absorber vessel, a plurality of spaced apart porous metal heat conducting elements in said vessel and in heat exchange relation therewith, a solid absorbent in the pores of said heat conducting elements, each 100 cc. of void volume in said heat conducting elements being charged with a quantity of said absorbent sufficient to be saturated by from 55 to 65 grams of ammonia, a vapor conveying structure positioned between each pair of adjacent heat conducting elements and in contact therewith, said heat conducting elements and said vapor conveying structure being so constructed and arranged that the maximum distance of any part of said heat conducting elements to said vapor conducting structure does not exceed ⅛ inch, and means for conducting vapor to and from said vapor conducting structure.

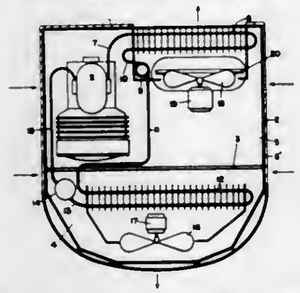
**2,649,701**

## AIR CONDITIONING UNIT, INCLUDING SUBCOOLING MEANS

**James R. Del Signore, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware**

**Application July 1, 1950, Serial No. 171,598**

**3 Claims. (Cl. 62—140)**



1. In an air conditioning unit, the combination of an evaporator, a condenser operatively associated with the evaporator and adapted to receive refrigerant therefrom, a spirally wound sub-cooling coil adapted to receive refrigerant in liquid form substantially free of gas from the condenser, a line for delivering liquid refrigerant from the sub-cooling coil to the evaporator, means for passing air in heat exchange relation with the evaporator to cool the air thereby precipitating moisture therefrom, a sump in which the precipitated moisture collects, said sump being placed adjacent to the condenser, a fan for passing air in heat exchange relation with the condenser, means for operating the fan, and a slinger for flinging moisture from the sump into heat exchange relation with the sub-cooling coil, said coil extending in a vertical direction adjacent the slinger.

**2,649,702**

## SNAP FREEZING BY COOLING A MASS WHILE UNDER PRESSURE AND QUICKLY RELIEVING THE PRESSURE

**Edward P. Kellie, Detroit, Mich.**

**No Drawing. Application September 1, 1950, Serial No. 182,887**

**7 Claims. (Cl. 62—173)**

5. The method of freezing a generally solid food product containing moisture comprising subjecting the food product to a gaseous pressure higher than atmospheric, refrigerating the food product to reduce its temperature under such gaseous pressure to a temperature lower than the freezing temperature of the moisture at atmospheric pressure and above the freezing temperature of the moisture corresponding to such higher pressure, controlling the rate of heat extraction from said food product during said step of refrigerating to prevent freezing of the outer portions of said food product, and then reducing the gaseous pressure to raise the freezing point of the moisture to at least the temperature to which the food product has been reduced whereby the food product freezes instantaneously throughout its mass.



**2,649,703**

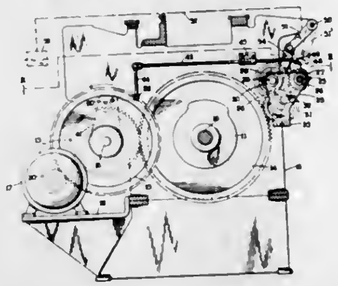
## STRAIGHT BAR KNITTING MACHINE

**Kurt Willi Wickardt, Liverpool, England, assignor to Hosemaster Machine Company Limited, Liverpool, England, a British company**

**Application March 24, 1951, Serial No. 217,352**

**In Great Britain March 27, 1950**

**7 Claims. (Cl. 66—82)**



1. In a straight bar knitting machine for the knitting of full fashioned hosiery, having a row of needles and other loop-forming elements cooperating with said needles for the manufacture of a knitted fabric, power drive means including a prime mover, means for controlling the starting and stopping of said prime mover and movable into a position corresponding to the starting of said prime mover and into another position corresponding to the stopping of said prime mover, a cam shaft, means for connecting said cam shaft to said power drive means, a hand-wheel shaft, means for clutching and declutching said hand-wheel shaft to and from said power drive means and movable into a position corresponding to the engagement of said hand-wheel shaft with said power drive means and into another position corresponding to the disengagement of said hand-wheel shaft from said power drive means to enable an operator to engage said hand-wheel shaft with said power drive means for manual adjustment of the machine and subsequently to disengage it therefrom so that during normal operation of the machine said hand-wheel shaft can remain stationary, and connecting means between said starting and stopping controlling means and said clutching and declutching means to prevent said clutching and declutching means from being moved into said position corresponding to the engagement of said hand-wheel shaft with said power drive means except when said controlling means is in said position corresponding to the stopping of said prime mover and to prevent movement of said controlling means into a position corresponding to the starting of said prime mover except when said clutching and declutching means is in said position corresponding to the disengagement of said hand-wheel shaft from said power drive means.

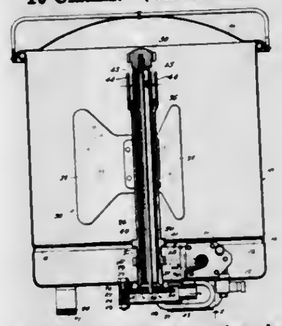
**2,649,704**

## WASHING MACHINE WITH WATER MOTOR HAVING AN EXHAUST CONNECTED TO WASHER TUB

**Joseph M. Tyrner, Morristown, N. J.**

**Application October 8, 1949, Serial No. 120,276**

**10 Claims. (Cl. 68—53)**



1. In a washing machine of the class wherein a tub has sides and a bottom, and there is an agitator in the tub connected with a water motor at the bottom of the tub, and the water motor has an exhaust that discharges water from the motor into the tub, the combination with said tub of a partition located in the tub above the water motor and forming an intermediate bottom in the tub, there being at least one opening adjacent to the periphery of the partition for the flow of water into the space above the partition along a zone near the sides of the tub.

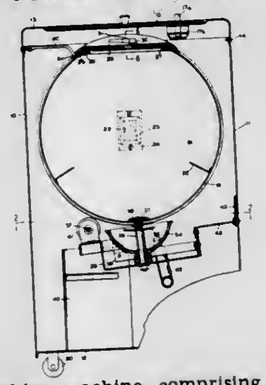
**2,649,705**

## WASHING MACHINE WITH COACTING MOTOR DRIVE AND DRAIN CONTROL

**Walter A. Ott, Cleveland, Ohio, assignor, by mesne assignments, to Paul W. Howard, Cleveland, Ohio**

**Application September 9, 1949, Serial No. 114,778**

**6 Claims. (Cl. 68—140)**

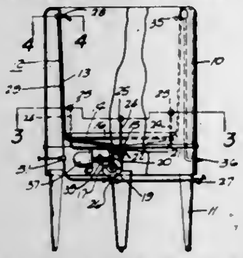


1. A washing machine, comprising an imperforate work holding drum rotatable upon a horizontal axis and provided in its cylindrical wall with oppositely disposed openable door and drain valve members, a pivoted support mounted below the drum, a power operated driving member adapted to engage said drum and carried by said support on one side of its pivotal axis, and an actuator for said drain valve carried by said support on the other side of its pivotal axis, said actuator being adapted to open said drain valve when said drum is stopped with said drain valve

in juxtaposition to said actuator, whereby tilting motion of said support about its pivotal axis in one direction or the other either establishes driving relation between said driving member and drum or causes the actuator to open the drain valve.

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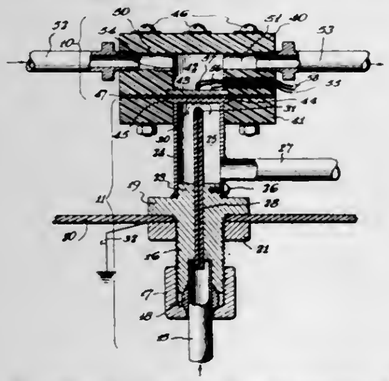
**2,649,706**
**WASHING MACHINE**
**Philip G. Kemp, St. Albans, N. Y.**
**Application October 2, 1947, Serial No. 777,443**
**3 Claims. (Cl. 68—184)**



1. In a washing machine a tub having a bottom and side walls, a drain in said bottom wall, a pump having an inlet connected with said drain, a plurality of jets spaced circumferentially around the side walls of said tub, conduits connecting said jets with the outlet of said pump, a conduit connected with said outlet for discharging water from said tub to a point exterior of the tub, valves in said first and second mentioned conduits for selectively directing the water from said outlet to said jets or exteriorly of the tub through said second mentioned conduit, an auxiliary jet positioned in said tub above said other jets and adjacent the upper end of the tub, said last mentioned jet comprising a nozzle positioned to direct a stream of water against the side walls of the tub around the upper end thereof, and a conduit connecting said last mentioned jet into said discharge conduit intermediate the ends thereof.

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**2,649,707**
**DEW-POINT MEASURING DEVICE**
**Edwin W. Donath and Bruce A. Ritzenthaler, Chicago, Ill., assignors to Illinois Testing Laboratories, Inc., Chicago, Ill., a corporation of Illinois**
**Application June 22, 1951, Serial No. 233,051**
**14 Claims. (Cl. 73—17)**



1. A dew-point detecting instrument which comprises an electrically insulated metal surface, means for leading a gas to impinge on said surface, means for introducing negatively charged particles to said gas, means for cooling the surface whereby the gas in the vicinity of said surface is cooled to cause condensation of moisture upon said particles, means for detecting the charge on said surface caused by collection on said surface of said particles having condensate thereupon, and means for measuring the temperature of said surface.

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**2,649,708**
**REED TESTER**
**Mario Maccaferri, Rye, N. Y.**
**Application December 26, 1950, Serial No. 202,695**
**6 Claims. (Cl. 73—100)**



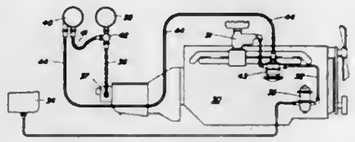
4. In an instrument for testing the flexibility of a musical instrument reed, in combination; a case adapted to be grasped in one hand, said case being formed at one end thereof with a reed receiving opening for insertion of a reed therethrough to testing position in said case; means for releasably clamping a reed in testing position in said case with the inner end thereof free for flexing; said clamping means including a clamping member mounted for movements to and from reed clamping position, and spring means adapted to continuously bias said clamping member to clamping position; a push button member movably mounted in said case and being projected outwardly therethrough in position accessible for depression from the exterior of the case, said push button being operatively connected with said movable clamping member and being adapted to actuate said member to non-clamping position by depression of said button; a reed flexing member mounted in said case for movements in either direction transversely of the free end of a reed to be tested and being adapted to engage said free end at one side for flexing thereof by movement in one direction; and spring means associated with said flexing member and being adapted to continuously bias said member in the flexing direction.

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**2,649,709**
**FUEL MILEAGE INDICATOR**
**William J. Sturtz, Los Angeles, Calif.**
**Application January 30, 1948, Serial No. 5,475**
**5 Claims. (Cl. 73—114)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. A gasoline consumption instrument for an automotive vehicle comprising a trip mileage counter, the counter comprising a plurality of side-by-side digit wheels mounted on a common shaft, ten-to-one ratio drives interconnecting the adjoining counter wheels, the first digit wheel carrying a sleeve rotatable and slidable upon the shaft, means for axially shifting the sleeve to separate the first and second digit wheels to disconnect their interengaging drive, a gear driven by the speed of the vehicle normally in engagement with the sleeve gear, a back wind spring, a gear train operated thereby and including a gear engaged by the gear sleeve when the sleeve is in shifted position, a latch for holding the sleeve in its unshifted position, a fuel meter driven means for releasing the latch at periodic

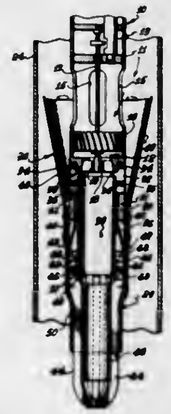




volumetric intervals of fuel consumption, means for return shifting the sleeve to latched position when the wheels have been reset to zero, means including a portion rotating with the sleeve for retensioning the back wind spring during the rotation of the sleeve following the return shifting of the sleeve, and means for latching the spring in tensioned position until the subsequent shifting of the sleeve.

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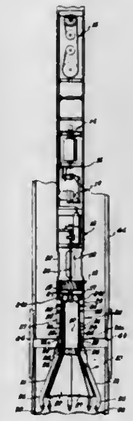
**2,649,710**
**OIL WELL FLOWMETER**
**Clarence R. Dale, Los Angeles, Calif.**
**Application December 13, 1948, Serial No. 65,017**
**1 Claim. (Cl. 73—155)**



A well flow meter comprising a housing adapted to be lowered in the well liquid, a rotor in the housing and exposed to the liquid for rotation by and in accordance with the liquid flow through a passage in the housing, recording means in the housing energized in accordance with rotations of the rotor, an upper upwardly cupped trap carried by the housing and adapted to direct downwardly flowing well liquid into said passage and against the rotor, a lower trap carried by the housing having a downwardly cupped condition for directing upwardly flowing liquid into the passage and against the rotor and adapted for radial contraction from said condition, and a keeper carried by said upper trap extending about the lower trap and maintaining it in radially constricted condition while the housing is being lowered in the well, said housing and lower trap being movable upwardly relative to said upper trap and keeper, and the lower trap being withdrawable from the keeper by said upward movement to free the lower trap for radial expansion, and said upper trap and keeper having means engageable with an irregularity in the well bore wall to retain the upper trap and keeper against upward movement during said withdrawal of the lower trap.

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**2,649,711**
**APPARATUS FOR DETERMINING FLUID FLOW IN WELLS**
**Clarence R. Dale, Los Angeles, Calif.**
**Application December 13, 1948, Serial No. 65,018**
**14 Claims. (Cl. 73—155)**



14. A well flow meter comprising a housing adapted to be lowered in the well liquid, a rotor in the housing and exposed to the liquid for rotation by and in accordance with the liquid flow through a passage in the housing, indicating means energized in accordance with rotations of the rotor, and a radially deflectible flow trap carried by and of larger diameter than the housing and operating to divert vertically flowing well liquid into said housing passage and against the rotor, said trap comprising a radially contractible assembly of circularly arranged vanes in circularly overlapping arrangement, said vanes being separately formed and being relatively bodily movable into increased overlapping relation upon radial contraction of the trap.

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**2,649,712**
**OIL WELL FLOWMETER**
**Clarence R. Dale, Altadena, Calif.**
**Application October 6, 1947, Serial No. 778,053**
**2 Claims. (Cl. 73—155)**

1. A well flow meter comprising a vertically elongated housing adapted to be suspended in vertical condition and lowered in the well liquid, a rotor in the housing and exposed to the liquid for rotation by and in accordance with the vertical liquid flow relative to the housing, a magnetic switch in said housing sealed from the well liquid, an annular member carried by and rotating with said rotor, said member comprising a non-magnetic segment and a magnetic metal segment operating to actuate said switch in accordance with the rotor revolutions, said magnetic metal segment being of an angular extent greater than 180° to in each instance actuate the

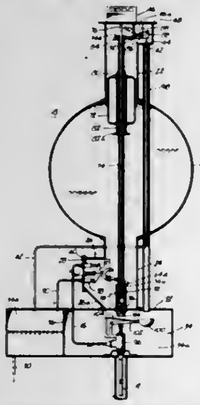
switch for an interval corresponding to greater than one-half rotor revolution, and a recorder



within said housing above the rotor responsive to the operations of said switch.

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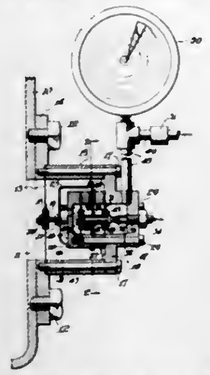
**2,649,713**
**LIQUID METERING APPARATUS**
**Lee R. Dunavant, Seattle, Wash.**
**Application January 29, 1951, Serial No. 208,379**
**7 Claims. (Cl. 73—225)**



1. Liquid metering apparatus comprising a liquid container having therein a main storage space for liquid, inlet and outlet passages and valves to fill and drain liquid from said container, mutually aligned means forming container end spaces extending respectively above and below the maximum and minimum levels of liquid contained in said main storage space and having a materially smaller liquid-containing cross section than said storage space, a guide rod extending between and through said aligned end spaces, an elongated sleeve slidably received on said rod to extend between and at least partially through said aligned end spaces, a float slidably received on said sleeve and guided thereby for movement with changing level of liquid into and from said aligned end spaces, valve control mechanism adjacent one of said end spaces for simultaneous opening and closing of said inlet and outlet valves alternately, abutment means on the corresponding end of said sleeve for operating said valve control mechanism in one sense by longitudinal shifting of said sleeve, means on the opposite end of said sleeve to be engaged by the float for effecting such shifting as such float enters the corresponding opposite container end space along said sleeve, and means on the float for operating said valve control mechanism in the reverse sense by movement of the float into the first passage along said sleeve.

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**2,649,714**
**LIQUID LEVEL GAUGE**
**Andrew S. Griffith, Jr., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**
**Application December 20, 1951, Serial No. 262,550**
**3 Claims. (Cl. 73—299)**

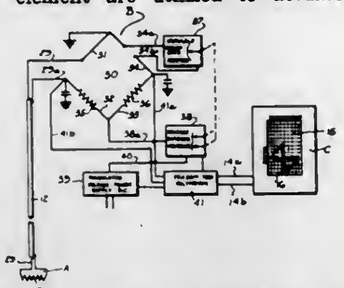


1. A force-balanced liquid level gage comprising in combination a housing, a sensing diaphragm constituting one wall of said housing, a sub-housing disposed within said housing comprising a first chamber defined by a first diaphragm disposed parallel to said sensing diaphragm and a second chamber defined by a second diaphragm disposed parallel to said sensing diaphragm, the outside walls of said first and second diaphragms and the inside wall of said sensing diaphragm being subjected to the pressure existing above the liquid measure and the inside wall of said first diaphragm being subjected to atmospheric pressure, a rigid mechanical connection between said first and second diaphragms, means transmitting forces acting on the outside surface of said sensing diaphragm to said rigid mechanical connection, a bleed nozzle connecting said second chamber with the atmosphere with its inlet disposed adjacent the inside wall of said second diaphragm whereby air flow through said nozzle is throttled by inward movement of said second diaphragm, means supplying balancing air to said second chamber at a substantially constant rate of flow and a predetermined pressure slightly greater than the maximum head of the liquid level which it is desired to measure, and means for indicating the pressure existing in said second chamber as a function of the existing liquid level.

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**2,649,715**
**TEMPERATURE MEASURING AND INDICATING APPARATUS**
**Ralph W. Goble, Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo., a corporation of Delaware**
**Application May 8, 1947, Serial No. 746,667**
**3 Claims. (Cl. 73—362)**

1. A temperature measuring and recording apparatus including, an electrical temperature measuring circuit comprising a Wheatstone bridge, a fixed resistance in each of two legs of the bridge, a temperature responsive element adapted to be lowered within a well bore and electrically connected in third leg of the bridge circuit whereby the temperature changes affecting the temperature responsive element produce variations in said bridge circuit, a recording mechanism including a chart and a recording stylus movable transversely across said chart, electrical actuating means for imparting movement to the stylus means for electrically connecting said stylus actuating means with the bridge circuit whereby the variations in said circuit which are representative of the temperature changes affecting the temperature responsive element are utilized to actuate the



stylus to visibly record said temperature changes on said chart, a plurality of electrical resistances each of a predetermined value different from the value of the others, each resistance being representative of a stage or scale within the operating range, means for selectively connecting the desired resistance in the fourth leg of the bridge circuit whereby said resistance electrically balances said circuit and thereby returns the recording stylus to its starting position relative to the chart, said resistance thereby controlling the starting point in the stage or scale, and a voltage dividing network electrically connected across the bridge circuit for setting the upper limits of each scale and also for controlling the movement of the stylus to assure its complete travel across the chart during each scale within the operating range.



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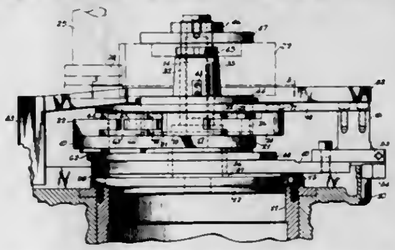
**ERRATUM**

See Patent Numbers 2,649,808 through 2,649,840 for Classes 74 through 89

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**2,649,716**
**APPARATUS FOR GENERATING GEARS**
**Gale E. Millhuff, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application October 18, 1949, Serial No. 122,045**
**10 Claims. (Cl. 90—7)**

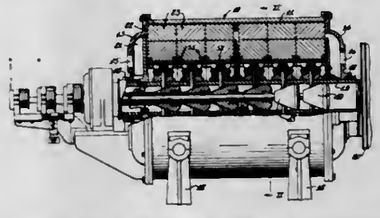
1. In a machine for generating a varying speed gear, a reciprocating pinion-shaped cutter rotatably driven at constant speed during its reciprocating movement, a rotating work spindle, a support for a gear blank mounted to rotate relative to said work spindle, means for advancing or retarding the rate of feed movement of said gear blank with respect to said work spindle in accordance with the relative speed ratio at which the finished gear and its mating pinion will operate comprising a stationary cam, a cam follower cooperating therewith and connected to said gear blank support, and means for urging said cam follower against said cam at substantially uniform pressure for all positions of said work spindle and said gear blank support comprising a second stationary cam, a second cam



follower cooperating therewith and connected to said gear blank support.

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**2,649,717**
**ROTARY REFINER**
**Edmund P. Arpin, Jr., Neenah, Wis., and Raymond P. Frye, Chicago, Ill.; said Frye assignor to said Arpin**
**Application August 28, 1951, Serial No. 244,006**
**4 Claims. (Cl. 92—28)**



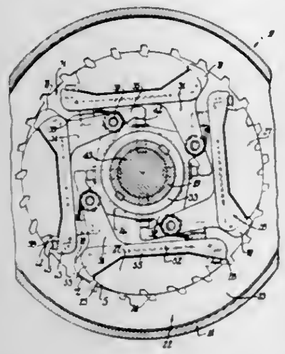
1. In a rotary refiner for wet fibrous material of the type including a stationary shell having a cylindrical abrasive liner, a hollow drive shaft, centrifugally acting rotor elements movable against said abrasive liner, members secured to said shaft, pins carried by said member at arcuately spaced positions, levers each pivotally mounted intermediate the ends thereof, on one of said pins and having free end portions, a rod associated with one end of each lever and extending radially through said hollow shaft, an arm portion projecting from the trailing end of each of said rotor elements and having an aperture for receiving the other end of each of said levers, and means in said hollow shaft associated with the radially inward end of each rod for controlling the amount of clearance between said rotor and said cylindrical shell; the improvements which comprises pivotally mounting the leading portion of each rotor element on the same pin which pivotally mounts the lever associated with the trailing portion of the rotor element next ahead.

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**2,649,718**
**ROTARY REFINER**
**Edmund P. Arpin, Jr., Neenah, Wis.**
**Application November 7, 1952, Serial No. 319,293**
**3 Claims. (Cl. 92—26)**

1. In a material-treating machine, a stationary shell having a cylindrical abrasive liner, through which material flows axially from an inlet to an outlet end thereof, a rotatable shaft mounted within and axially of said shell, centrifugally acting rotor elements carried by said shaft and peripherally spaced within said shell and movable toward said abrasive liner, said rotor elements

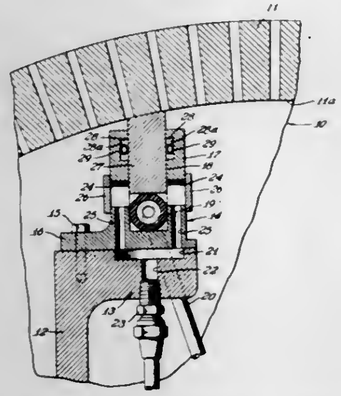
including a backing plate and a material-treating element carried by said backing plate for cooperation with said abrasive liner, and means



carried at the leading end of said backing plate for retarding passage of material axially of the shell, and for deflective material between said element and said abrasive liner.

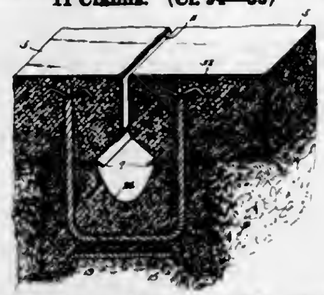
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**2,649,719**
**SUCTION ROLL SEAL ASSEMBLY**
**Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin**
**Application April 27, 1949, Serial No. 89,839**
**7 Claims. (Cl. 92—53)**



1. A suction roll seal assembly comprising a sealing strip holder for connection to a suction gland and extending into closely spaced relation to the inner periphery of a rotatable perforated shell, a sealing strip mounted in said holder and capable of movement relative thereto, inflatable means carried by said holder for urging said sealing strip into surface engagement with the inner periphery of said rotatable shell, and a sealing tube of originally circular configuration resiliently confined between said sealing strip holder and said sealing strip and deformed therebetween into a generally oval configuration into rolling engagement therewith to accommodate relative movement of said sealing strip and said holder while preventing fluid leakage therebetween.

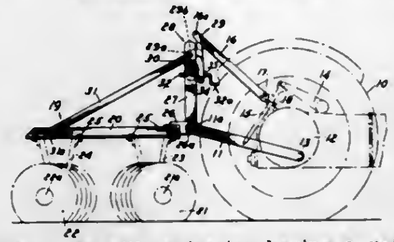
**2,649,720**
**DRAINAGE SYSTEM FOR AIRPORTS AND HIGHWAYS**
**John Nicholas Heltzel, Warren, Ohio; The Union Savings & Trust Company, Warren, Ohio, and Carl J. Heltzel, executors of said John N. Heltzel, deceased**
**Application March 4, 1947, Serial No. 732,169**
**11 Claims. (Cl. 94—33)**



1. In a road or airport runway construction or the like including subgrade-supported slabs spaced from one another to provide an expansion joint therebetween; the combination of a beam embedded in the subgrade below and paralleling the joint between the slabs, said beam having a lineally extending trough in its top surface below said joint, the bottom of said beam having a lineally extending channel, there being lineally extending side shoulders defining said channel and embedded in the subgrade, the top of the beam lying substantially flush with the bottom of the slabs, and injection passageways for filler or bearing material and extending from said trough to said channel whereby filler or bearing material can be injected into the channel at the bottom of the beam.

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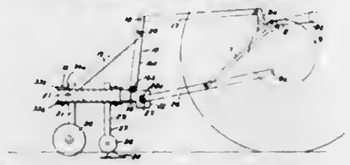
**2,649,721**
**POSITIONING MECHANISM FOR LIFT TYPE IMPLEMENTS**
**Raymond T. Spedding, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware**
**Application April 12, 1950, Serial No. 155,398**
**2 Claims. (Cl. 97—47.62)**



1. For use with a tractor having a pair of transversely spaced, vertically swingable, power lifted, draft links and a top link centrally pivoted to the tractor, an implement having a frame including an upstanding rigid A-frame, means for pivotally connecting the implement frame to the tractor draft links, a positioning lever medially pivotally mounted on the top portions of said A-frame, means for pivotally connecting one end of said positioning lever to the tractor top link and means operable between the other end of said positioning lever and said A-frame for adjusting the angular position of said positioning lever relative to said A-frame.



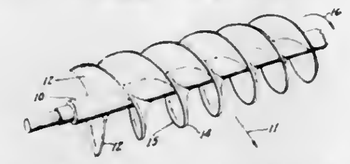
**2,649,722**
**NONRIGID FRAME MOUNTING FOR LIFT TYPE IMPLEMENTS**
**Arthur V. Raught, Birmingham, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware**
**Application May 6, 1950, Serial No. 160,504**
**4 Claims. (Cl. 97—47.62)**



1. For use with a tractor having a pair of transversely spaced vertically swingable power lifted draft links, an implement frame, a pair of transversely spaced mounting brackets on said frame, each of said brackets having a vertically disposed slot, a bearing member in each of said slots constructed and arranged for vertical movement in said slots, said bearing members each having a transverse bore, a drawbar insertable in said bores for mounting said drawbar transversely of said brackets, and means for respectively connecting the draft links to the ends of said drawbar.

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**2,649,723**
**SELF-SHARPENING ROTARY PLOW**
**Clarence G. Tubbs, Pendleton, Oreg.**
**Application March 22, 1947, Serial No. 736,574**
**4 Claims. (Cl. 97—219)**

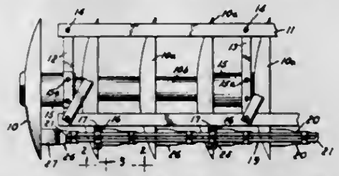


1. A spirally shaped cutter blade for a tillage implement, said blade being welded to and extending substantially from end to end of a drive shaft extending transversely of the line of draft of said implement, said blade extending from its longitudinal axis in a substantially radial direction and having its radial portion of long radius curvature relative to the width of the blade, said blade having a cutting rim curved to a shorter radius in an axial direction and approaching tangency with an imaginary cylindrical surface concentric with the axis of the blade, whereby peripheral wear acting radially inwardly of the blade forms a bevel with the inner surface of the rim and maintains a sharp cutting edge, said shaft when driven imparting a rolling motion to said blade in the direction of draft whereby the cutting edges on the leading side of the blade slice downwardly into the soil.

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**2,649,724**
**SCRAPER SUPPORT FOR DISK TYPE IMPLEMENTS**
**Joseph A. Barna, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware**
**Application October 28, 1949, Serial No. 124,188**
**2 Claims. (Cl. 97—224)**

1. In an earth working implement having a frame and a disc gang rotatably supported by the frame, a scraper support comprising a pair of spaced, parallel, identical, separable bars, each of said bars having one end thereof bent inwardly at substantially right angles from the longitudinal plane of the bar to extend laterally into abutment with the opposing end of the associated adjacent bar to maintain their spaced relationship, a pair of spaced brackets on the frame for mounting the bars in juxtaposition parallel to the axis of said disc gang and having slots therein lying transversely to said axis, a first means for adjustably mounting said bars on said brackets, a plurality of scraper blades, a second means for mounting said scraper blades on said bars per-



mitting longitudinal adjustment of said blades along said bars, said first and said second mounting means each comprising a bolt passing between said parallel bars in snug engagement therewith to project therebeyond, and a clamping member receiving the projecting end of said bolt and contacting the adjacent side and edge surfaces of said bars to partially surround the same, thereby preventing spreading and separation of the individual bars but permitting individual and group adjustment of said scrapers relative to said disc gangs upon loosening said bolts without removing said clamping members from said bars.

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**2,649,725**
**SPRING PRESSURE DEVICE FOR PLANTING ATTACHMENTS**
**William P. Oehler and Charles H. Youngberg, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application June 8, 1949, Serial No. 97,732**
**5 Claims. (Cl. 97—237)**



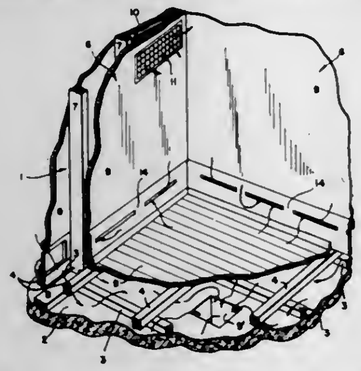
4. For use with planters and other implements having a support and a ground-working tool movable relative thereto: a spring pressure and lift device comprising an arm adapted to be fixed to said support, an elongated member shiftably and swingably connected with the outer end of said arm, a spring disposed about one portion of said elongated member and acting between the latter and said arm, and cooperating interengaging means on each end of said elongated member and said tool for optionally connecting either end of said elongated member with said tool.

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**2,649,726**
**AIR CIRCULATING SYSTEM FOR BUILDINGS**
**William F. Wyman, Spokane, Wash.**
**Application May 27, 1950, Serial No. 164,757**
**1 Claim. (Cl. 98—31)**

In a building construction, a floor laid upon cross strips mounted across furring strips to provide space under the floor having an air return duct leading therefrom, a wall including a base rail extending across ends of the furring strips

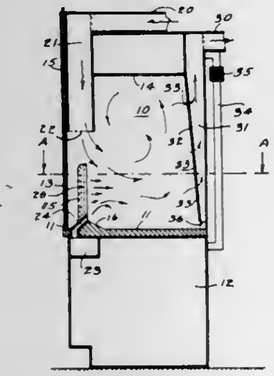
and vertical studdings resting upon the base rail in spaced relation to a confronting side face of an adjoining cross strip, said studdings being spaced transversely from each other and thereby providing vertical spaces between the studdings having lower ends communicating with the space under the floor, a facing sheet for the wall mounted against said studdings and having its lower edge spaced upwardly from the base rail. an air supply duct extending vertically in the wall between certain of said studdings and communicating with a register mounted through the



facing sheet, and a base board for the wall mounted against lower portions of the studdings between the floor and the lower edge of the facing sheet and having a groove along its upper edge into which the lower edge portion of the facing sheet fits, said base board having its rear face formed with spaced recesses located between the studdings and open at their lower ends, the base board being also formed with longitudinally extending slots forming air passages leading from the front face of the floor board and communicating with upper ends of the recesses.

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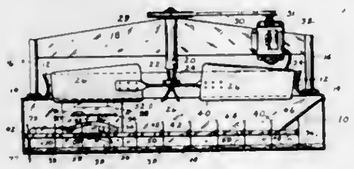
**2,649,727**
**CHEMICAL FUME HOOD**
**Donald L. Snow and Cyril S. Staub, Washington, D. C.**
**Application January 4, 1951, Serial No. 204,452**
**6 Claims. (Cl. 98—115)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



1. A method for operating a fume hood which comprises discharging a thick primary air curtain of downwardly moving air across an open hood face; discharging a secondary air curtain of less thickness upwardly and inwardly into said hood, whereby the primary curtain is of substantially greater volume than the secondary curtain; and exhausting the air within the hood from a portion of the hood opposite the air curtains at a rate slightly greater than the combined air supply rates of the primary and secondary curtains.

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**2,649,728**
**AIR-MOVING DEVICE**
**Carl Martin Buttner, Memphis, Tenn., assignor to Hunter Fan and Ventilating Company, Inc., Memphis, Tenn., a corporation of New York**
**Application June 17, 1949, Serial No. 99,680**
**12 Claims. (Cl. 98—116)**

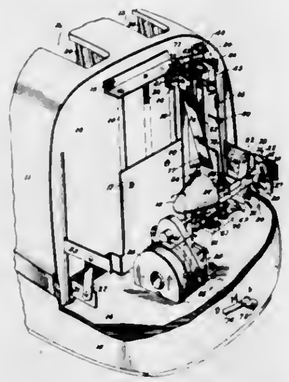


1. A louver-operating mechanism that comprises an actuating arm, a linkage which is secured to said arm and to louvers and is movable by said arm to move said louvers, a ratchet carried by said actuating arm, a pivot that rotatably secures said ratchet to said actuating arm, said ratchet having alternate deep and shallow notches, a locking surface on said actuating arm adjacent said ratchet, a pawl disposed intermediate the ends of the path of travel of said actuating arm and disposed to engage said ratchet and said locking surface, said shallow notches being disposable above said locking surface on said actuating arm to hold said pawl above and out of engagement with said locking surface, said deep notches being disposable below said locking surface on said actuating arm to permit said pawl to engage said locking surface, said pawl being adapted to lodge in a deep notch of said ratchet and engage said locking surface of said arm or to lodge in a shallow notch of said ratchet and be held out of engagement with said locking surface on said arm, said shallow and deep notches being alternated around the periphery of said ratchet.

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**2,649,729**
**ELECTRIC TOASTER**
**Richard H. Smith, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application May 31, 1952, Serial No. 291,039**
**18 Claims. (Cl. 99—328)**

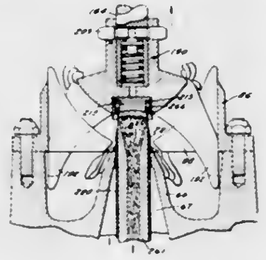
1. A toaster comprising, a bread carriage movable from receiving to toasting position, heating means for performing the toasting function, a constant speed power source, means for moving said carriage to toasting position, means actuated by movement of said carriage to toasting position for energizing said heating means, means for latching said carriage in toasting position, power actuated latch release mechanism, a variable speed transmission for transmitting power from said power source to said latch release mechanism, first movable means for varying the speed ratio of said transmission and second movable means actuated by movement of said carriage to toasting position for engaging said transmission with said power source and by movement of said



carriage to receiving position for disengaging said transmission from said power source.

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**2,649,730**
**METHOD OF AND APPARATUS FOR EXTRACTING JUICE FROM WHOLE CITRUS FRUIT**
**James M. Hait, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware**
**Application February 16, 1949, Serial No. 76,748**
**17 Claims. (Cl. 100—37)**

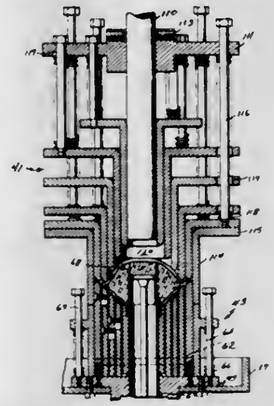


1. A method of extracting juice from a fresh whole citrus fruit which comprises the steps of forming an opening in the rind of the fruit for the escape of juice therefrom, applying compressive forces to the exterior of the fruit to progressively reduce its volume and expel the juice of said fruit from said opening, distributing said compressive forces to simultaneously bear at closely spaced points on substantially the entire area of the rind excepting the area of said opening whereby the forces also serve to provide sufficient support to the rind to prevent the juice from bursting therethrough, developing a diffused pattern of relatively narrow spaces at said rind area in which said compressive forces are not applied to said rind, and continuing the application of said compressive forces to said rind to the point where substantially all the remaining solid constituents of said fruit are substantially entirely extruded outward through said narrow spaces.





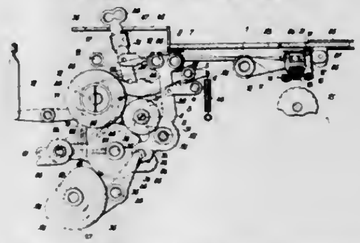
**2,649,731**
**CITRUS FRUIT JUICE EXTRACTING METHOD AND APPARATUS**
**Ralph Polk, Sr., and Ralph Polk, Jr., Tampa, Fla., assignors, by mesne assignments, to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware**
**Application September 27, 1948, Serial No. 51,364**
**27 Claims. (Cl. 100—39)**



1. A method of extracting the juice from whole citrus fruit comprising incising the fruit at least through the rind of one hemisphere of the fruit, and applying diametrically opposed pressures to the rind in a plurality of opposed annular bands substantially concentric with the axis of the incision and progressively inwardly from the periphery of the fruit to said axis to progressively press the rind of the incised hemisphere against the rind of the opposite hemisphere.

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**2,649,732**
**RECORDING DEVICE FOR CASH REGISTERS, ACCOUNTING MACHINES, AND THE LIKE**
**Albert Klaar, Bielefeld, Germany, assignor to Anker-Werke, A. G., Bielefeld, Germany, a corporation of Germany**
**Application August 16, 1949, Serial No. 110,628**
**In Germany October 1, 1948**
**6 Claims. (Cl. 101—93)**

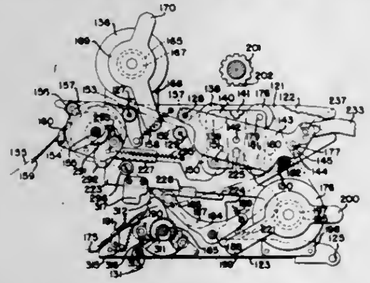


1. A recording device for cash registers, accounting machines and the like, comprising a tape mechanism disposed for accommodating an inscribable record tape and forming a path of travel for the tape, printing means disposed at a given location of said path and having a type alignment at a right angle to said path for printing lines of data across the tape, said tape mechanism comprising tape shift means for moving the last printed line from said location to another location of said path, housing means en-

closing said path to keep the tape normally inaccessible and having a movable cover portion normally locked in closed position and movable to open position, said cover portion being disposed along said path at said other location, a movable cover-operating member linked with said cover portion for moving it between said closed and open positions, said member being connected with said tape shift means for shifting the tape along said path to expose when said cover portion is in said open position a blank space on the tape longitudinally adjacent to the last printed line.

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**2,649,733**
**CARRYING FRAMES IN ACCOUNTING MACHINES**
**Angus G. Helgeson, Birmingham, Mich., assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Application June 14, 1950, Serial No. 168,029**
**12 Claims. (Cl. 101—96)**

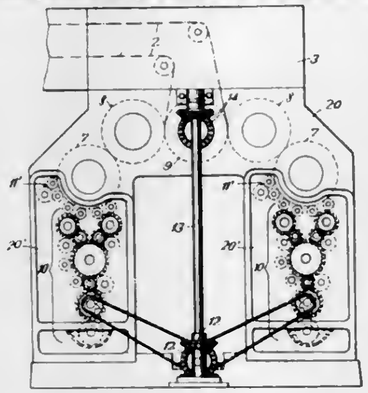


1. In a machine of the class described, the combination of an insertable record strip carrier having parallel side walls and connecting means therefor; a plurality of record strips carried by said carrier; a plurality of record strip feeding means carried by said carrier; a plurality of impression means carried by said carrier between said walls; actuating means mounted in said carrier and common to the plurality of impression means to actuate said impression means; a plurality of operating means mounted in the machine and outside said carrier to operate said common actuating means; a plurality of selectively operable coupling means mounted in the machine and outside of said carrier; selectively operable means to operate said plurality of coupling means to selectively couple said operating means with said common actuating means when said carrier is inserted in the machine, to cause said common actuating means to actuate one of said impression means to print on one of said record strips, and to cause operation of the record strip feeding means associated with said one record strip; and manipulative means to determine which of said selectively operable means shall be operated.

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**2,649,734**
**ROTARY MULTICOLOR TRANSFER PRINTING MACHINE**
**Max Ras, Zurich, Switzerland**
**Application September 18, 1950, Serial No. 185,385**
**In Switzerland October 10, 1949**
**1 Claim. (Cl. 101—138)**

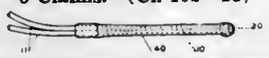
In a rotary multicolor transfer printing machine including a plurality of in-line printing units each comprising two plate cylinders, two transfer cylinders, an impression cylinder, said plate and transfer cylinders being disposed symmetrically with respect to a vertical plane through the axis of the impression cylinder, a vertical main driving shaft in said plane, two meshing bevel gears connected between said shaft and said impression cylinder respectively, inkers and dampeners disposed below the level of the



centers of said plate-cylinders, and a drive mechanism for said inkers including two meshing bevel wheels, one of said wheels being connected to the lower end of said main driving shaft, sprocket drive means connected to the other of said two bevel wheels, and drive gears for each of said inkers and connected to said latter two bevel wheels by said sprocket drive means.

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**2,649,735**
**LEAD WIRE FOR INITIATING DEVICES**
**George B. Feild, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**
**Application July 15, 1948, Serial No. 38,851**
**8 Claims. (Cl. 102—28)**



2. An electric blasting initiator assembly comprising an electric blasting initiator; a pair of lead wires extending therefrom; an electrical shunt disposed adjacent the terminal ends of the lead wires, said lead wires having initially applied insulation extending from the initiator to a point short of the terminal ends; and a substantially nonadhering coating of tough, dielectric, plastic hot-melt composition disposed intimately about the initially uninsulated portions of the shunted lead wires and extending a short distance over the insulation in substantially airtight and watertight relationship therewith, said plastic hot-melt composition having been applied by dipping the shunted terminal ends and the lead wire adjacent thereto into a bath of the molten composition.

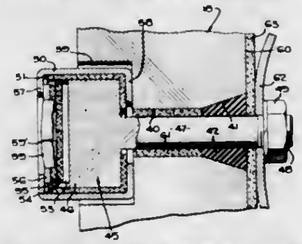
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**2,649,736**
**CONTACT PIN IGNITER**
**Robert A. Phillips, La Habra Heights, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware**
**Application March 21, 1949, Serial No. 82,511**
**2 Claims. (Cl. 102—70.2)**

1. A contact pin igniter comprising: a metal contact cup having inwardly directed top and bottom flanges forming top and bottom openings



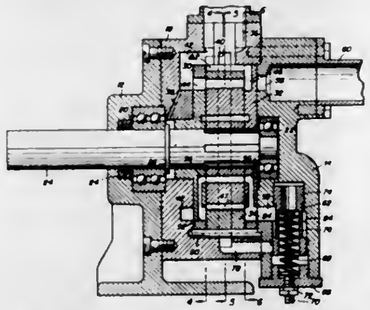
in said contact cup; a pin shaped metal body having a cylindrical head positioned within said contact cup and a shank which extends through the bottom opening of said contact cup; electrical insulating means insulating said contact cup from the head and shank of said metal body; an insulating disc on the top end surface of said head within said contact cup; an annular insulating ring on the top surface of said insulating disc within said contact cup; an annular metal ring concentrically positioned on the top surface of said annular insulating ring within said contact cup; said insulating disc, insulating ring and metal ring cooperating to form an upwardly facing cylindrical depression; said inwardly directed top flange extending over and



making electrical contact between said annular metal ring and said contact cup and clamping said metal ring, said insulating ring and said insulating disc in the above described superimposed positions in said contact cup; a fusible wire on the upper surface of said insulating disc; both end portions of said fusible wire being clamped between said insulating disc and said annular insulating ring; one end of said fusible wire extending around the edge of said insulating disc into electrical connection with said head and the opposite end of said fusible wire extending around the edge of said insulating ring into electrical connection with said metal ring; and an explosive charge within said depression in physical contact with said fusible wire.

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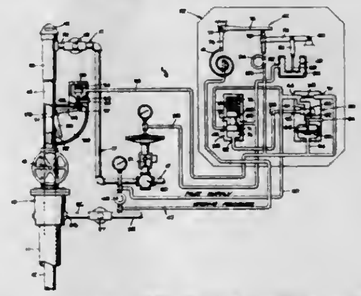
**2,649,737**
**HYDRAULIC PUMP**
**Kenneth H. Hoen and James M. Archer, Billings, Mont.; Ruby E. Archer, administratrix, de bonis non, of said James M. Archer, deceased**
**Application March 22, 1948, Serial No. 16,354**
**4 Claims. (Cl. 103—42)**



1. In a hydraulic pump, a housing including end plates and a center piece, said center piece being positioned between said end plates and having an enlarged circular opening therethrough, a stator positioned in a central portion of said opening, fluid control plates mounted in said circular opening on opposite sides of said stator, an opening in said stator, a rotor mounted on a shaft carried by said end plates, said rotor being positioned within the opening in said stator and having movable vanes engaging the walls of the opening in said stator, a fluid inlet in said center piece, an annular inlet fluid passage in said center piece communicating with said fluid inlet, said annular fluid passage being located centrally of the axial center of said center piece with the radial inner wall thereof closed by said stator, axially aligned inlet ports in said fluid control plates, axially extending passages in the outer portion of said stator communicating said inlet ports with said annular fluid passage, axially aligned outlet ports in said fluid control plates communicating with an annular outlet passage in one of said end plates.

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**2,649,738**
**CONTROL FOR PLUNGER LIFTS**
**Howard C. Tait, Pittsburgh, Pa., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 22, 1952, Serial No. 289,277**
**5 Claims. (Cl. 103—52)**



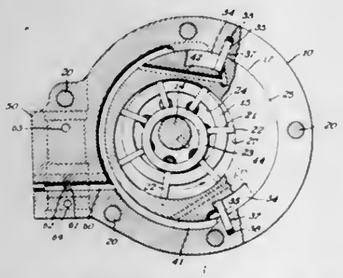
1. In a plunger lift device having a valved plunger adapted to travel freely under pressure substantially the full length of an eduction tube in a well, the combination of: a well head assembly connected to the upper end of the eduction tube, a discharge pipe leading from the well head assembly, a control valve for controlling flow of well fluid through the discharge pipe, resilient means for closing the control valve, power means for opening the control valve against the action of the resilient means, a trigger element movably mounted on the well head assembly to be actuated when the plunger reaches the upper end of its travel, a vent valve mounted on the well head assembly, a pipe connected to said vent valve, means whereby the trigger element may open the vent valve to vent the pipe, a supply pipe for supplying pressure fluid to said control pipe, and means operable to deenergize said power means to permit the resilient means to close the control valve upon opening of the vent valve by the trigger element.

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**2,649,739**
**CONSTANT PRESSURE VARIABLE DISPLACEMENT PUMP**
**George H. Hufferd, Cleveland, Ohio, and Bernard E. O'Connor, Buffalo, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan**
**Application June 4, 1948, Serial No. 31,118**
**12 Claims. (Cl. 103—120)**

1. A constant pressure variable displacement pump including a casing, a vane type rotor, a ro-

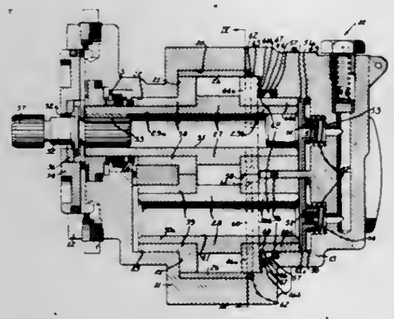
tary modulator member cooperating with the rotor to provide a variable displacement pump chamber eccentric to the axis of rotation of the modulator member, a casing providing bearing surfaces for and rotatably supporting said modulator member in face-to-face relation, means on said modulator member and said casing at the interfaces thereof providing opposed cooperatively related pairs of pressure surfaces facing in the respective opposite directions of rotary movement of the modulator member, one surface of



each pair of surfaces being on the modulator member and the other of each pair of surfaces being on the casing and the pairs of surfaces being separable upon rotation of the modulator member and means for selectively subjecting certain of the surfaces to dynamic fluid pressure of the rotor while effecting communication with the low pressure side of the pump for the remaining surfaces in order to adjust the rotary position of the member and thereby vary the displacement of the pump chamber relative to the rotor.

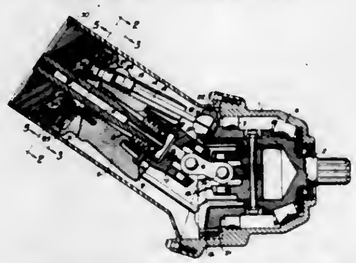
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**2,649,740**
**HIGH-PRESSURE PUMP**
**John F. Murray, Macedonia, and James C. Osborne, Cleveland Heights, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application June 6, 1950, Serial No. 166,376**
**12 Claims. (Cl. 103—126)**



12. In a pump, a housing, a pair of meshing rotary gear impellers in said housing, a pair of bushings in the housing for the gear impellers, abutting faces between said bushings and having complementary recesses formed therein, and a sealing means between the bushings and the housing including a nubbin plugging said complementary recesses to seal against leakage along the abutting faces of the bushings.

**2,649,741**
**PUMP**
**Knut Henrichsen, Los Angeles, Calif., assignor to North American Aviation, Inc.**
**Application November 26, 1948, Serial No. 62,024**
**13 Claims. (Cl. 103—162)**



1. A pump comprising a housing, a drive member and a cylinder block rotatably mounted in said housing, said cylinder block having bores therein, piston means reciprocably received within said bores, universal joint means connecting said drive member to said cylinder block, a valve block in said housing, said valve block having inlet and outlet ports therein, a valve member connector means securing said valve member to said cylinder block with freedom for universal movement relative thereto whereby said valve member is floatingly carried by said cylinder block for operatively connecting bores in said cylinder block with ports in said valve block, pistons in said bores, ball bearing means connecting said pistons to said drive member, said pistons and bearing means having an opening from the pressure side of said pistons to the pressure side of said bearing means for relieving pressure on said bearing means.

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**2,649,742**
**JET PUMP PIPE ASSEMBLY**
**John E. Armstrong, El Cerrito, Calif., assignor to Jacuzzi Bros., Incorporated, a corporation of California**
**Application July 12, 1948, Serial No. 38,284**
**2 Claims. (Cl. 103—260)**

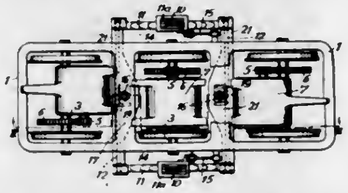


1. A structural arrangement involving a jet pump, comprising in combination, a vertically suspended pressure and suction line assembly including a plurality of pipe assembly units, each comprising a pair of pipe sections, one of said pipe sections being in the pressure line and the other of said pipe sections being in the suction line, means mechanically coupling said pipe sections at one end in spaced relationship to each other, means similarly coupling said pair of pipe sections at their other ends; means coupling said pipe sections to aligned pipe sections of an adjacent pipe assembly unit; and a jet pump coupled to and supported from the lowest of said pipe assembly units.



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**2,649,743**
**RAIL VEHICLE WITH PLURAL-AXLE**
**Gaston Borgeaud and Jakob Waldvogel, Winterthur, Switzerland, assignors to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland**
**Application February 6, 1951, Serial No. 209,575**
**In Switzerland February 8, 1950**
**9 Claims. (Cl. 105—199)**

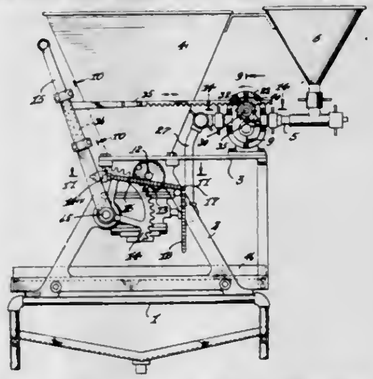


1. In a rail vehicle having a multi-axle bogie, a vehicle body, and a bolster swing structure supporting the vehicle body and suspended on the bogie-frame, said bolster swing structure including opposite longitudinal springs, and cross bars interconnecting the spring ends and transversely extending at either side of the central portion of the bogie so as to leave said central portion unobstructed, said vehicle body having two traverses extending on either side of said central portion of the bogie, the bogie frame having two transoms also extending on either side of said central portion of the bogie, and two followers each interconnecting one of said body traverses with one of said bogie transoms for transmission of traction and braking forces from the bogie frame to the vehicle body, said followers being situated in the longitudinal middle plane of the vehicle and said interconnected body traverses and bogie frame transoms being arranged in substantially superposed relationship so as to leave an open space free from structural components of the bogie at said central portion of the bogie.

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**2,649,744**
**APPARATUS FOR MAKING COMPOSITE ICE-CREAM CONFECTIONS**
**Edwin L. Elwell, Lineboro, Md., assignor to Eskimo Pie Corporation, Bloomfield, N. J., a corporation of Delaware**
**Application December 15, 1949, Serial No. 133,114**
**3 Claims. (Cl. 107—1)**

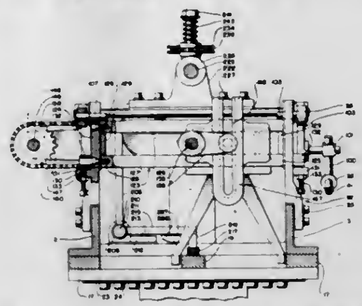
1. An apparatus for simultaneously extruding a measured volume of an annulus of an exteriorly disposed confection about a measured volume of extruded core confection comprising a frame, a first container mounted on said frame for said core confection, a second container supported by said frame for said exterior confection, a first gear pump having a driven shaft and secured dependingly to said first container, a second gear pump having a driven shaft and secured to said second container, a die secured to said first pump and having a centrally disposed tube for emitting the core confection and an annular chamber disposed about said tube for said exteriorly disposed confection, a conduit connecting the outlet of said second pump to said annular chamber, a first lever arm pivoted at its base to said frame, a quadrant gear fixedly secured to the lever arm and pivoted on the lever arm pivot, a driven gear fixed to the driven shaft of said first gear pump



and adapted to operate said first gear pump, and a second lever arm pivotally secured centrally to said first lever arm and having gear teeth adapted to operate the driven shaft of said second gear pump, whereby forward movement of said first lever arm simultaneously operates said second lever arm and said first and second gear pumps.

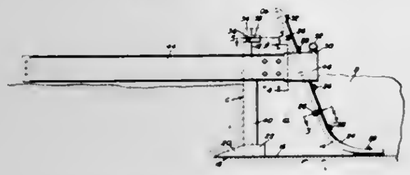
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**2,649,745**
**DEVICE FOR PROVIDING MOLD INDENTATIONS AND CLEANING MOLD FORMING APPARATUS**
**Joseph Varak, Chicago, Ill., assignor to E. J. Brach & Sons, Chicago, Ill., a corporation of Illinois**
**Application October 28, 1950, Serial No. 192,800**
**20 Claims. (Cl. 107—3)**



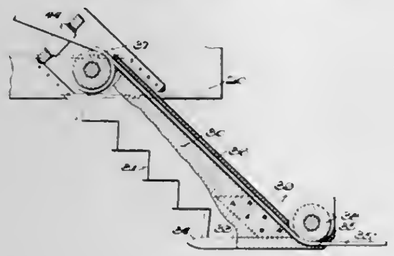
1. A machine for providing mold indentations in a mass of finely divided mold material which comprises, a printer frame, an impression panel carried by said frame, projections upon the lower face of said impression panel, means for moving said frame downwardly to cause said projections to penetrate into a mass of mold material carried beneath the frame, a vacuum hood in which a condition of vacuum exists positioned upon said frame above said impression panel having an inlet mouth positioned adjacent and above said impression panel, and means for moving said hood to move said mouth substantially parallel to the top of said impression panel during movement of said printer frame.

**2,649,746**
**CABLE GUIDE FOR CABLE LAYERS**
**Milton C. Taylor, West Palm Beach, Fla.**
**Application November 2, 1950, Serial No. 193,644**
**1 Claim. (Cl. 111—5)**



In combination with a cable laying plow including a vertical plate having a rear edge with an upper portion which is straight and slopes upwardly and forwardly and a lower portion which curves downwardly and rearwardly, a cable guide comprising a tube divided longitudinally in the vertical plane of said plate to provide a pair of complementary sections having front and rear abutting edges, each of said sections having a curved lower portion disposed on said curved lower portion of said rear edge and a straight upper portion disposed on said straight upper portion of said rear edge, hinges connecting the straight upper portion of each section to the straight upper portion of said rear edge, the pivotal axes of the hinges of each section being aligned and parallel to said straight upper portion of said rear edge, registering ears on the rear abutting edges of said sections, and removable fasteners securing said ears together, whereby said sections may be swung apart to receive or release a cable or the like.

**2,649,747**
**CUTTING BLADE FOR DITCHING AND CABLE LAYING MACHINES**
**Francis B. Ryan, Chariton, Iowa**
**Application December 1, 1947, Serial No. 789,017**
**2 Claims. (Cl. 111—5)**



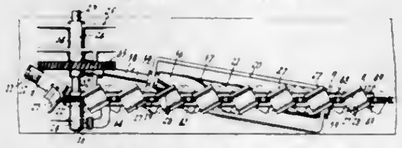
1. A ditching and cable laying blade comprising an angularly disposed thin blade body supported at an acute angle to the surface of the ground, stepped, sharpened and rectilinearly disposed cutting edges of equal length and depth downwardly disposed in the forward edge of said blade body, a cable channel downwardly disposed within the rear edge of said blade body and parallel thereto, an upwardly extending arm made integral with the upper, forward extremity of said blade body, rollers rotatably mounted in brackets affixed at right angles to the upper extremity of said arm, whereby a cable may be passed between said rollers and downwardly through said cable channel for laying in the ditch cut by said blade.

**2,649,748**
**METHOD OF SEWING AND TUFTING FABRIC SECTIONS**
**Joseph Kelly McCutchen, Ellijay, Ga.**
**Application January 17, 1952, Serial No. 266,860**
**9 Claims. (Cl. 112—79)**



1. The method of sewing and tufting the untufted marginal zone portions of tufted fabric sections, comprising supporting the tufted fabric sections upon opposite sides of the operator and arranging the untufted marginal zone portions next to the operator, effecting a single longitudinal feeding of the marginal zone portions and their fabric sections forwardly to a sewing and tufting station, starting arranging the forward end portions of the marginal zone portions in overlapping relation and continuing such overlapping arranging during the single longitudinal feeding, first starting the sewing of a longitudinal line of stitching in the same overlapped marginal zone portions at the said station and during the said single longitudinal feeding, then starting the sewing of a longitudinal line of tufting in said same overlapped marginal zone portions at a leading point with respect to the starting of the sewing of the line of stitching and at said station and during the said single longitudinal feeding, and continuing the sewing of the line of stitching and the sewing of the line of tufting simultaneously whereby the line of stitching and the line of tufting in the said same overlapped marginal zone portions are completed during the said single longitudinal feeding.

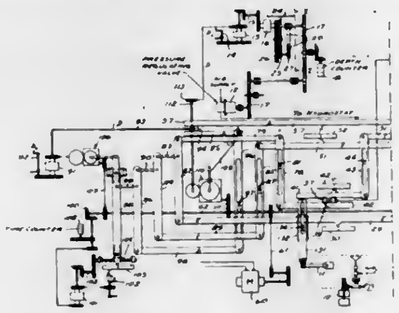
**2,649,749**
**APPARATUS FOR SOLDERING SIDE SEAMS OF CANS**
**John E. Socke, Pelham Manor, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey**
**Application April 12, 1949, Serial No. 87,012**
**6 Claims. (Cl. 113—62)**



1. In an apparatus for applying solder to the side seams of can bodies, the combination of a rotary applicator having a raised helical thread, means for supplying molten solder to said helical thread, conveyor means for moving can bodies in a predetermined path crossing the axis of said applicator at an angle with said helical thread greater than the angle of said thread relative to said axis of the applicator, said conveyor means retaining said can bodies thereon with the side seam of each body disposed at an angle to the axis of said applicator substantially the same as the angle of said helical thread relative to said axis of the applicator for receiving an application of solder from said helical thread at a point of tangency between said side seam and said helical thread, and drive means for rotating said applicator and moving said conveyor means in timed relation to advance said point of tangency and application of solder along said side seam as the can body moves along said predetermined path.

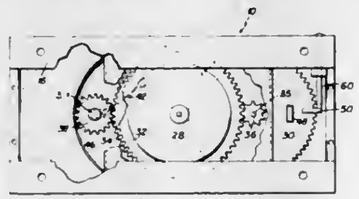


**2,649,750**
**MEANS FOR TESTING TORPEDO DEPTH CONTROL MECHANISM**
**Edward G. Burgess, Jr., Kew Gardens, N. Y., assignor to The Sperry Corporation, Long Island City, N. Y., a corporation of Delaware**
**Application January 24, 1952, Serial No. 268,012**
**10 Claims. (Cl. 114—25)**



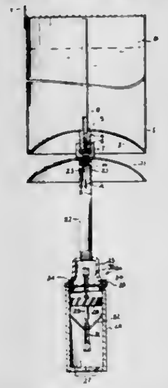
1. Means for testing torpedo depth control mechanism having an elevator actuator and hydrostatic pressure responsive means connected to operate the elevator actuator and settable for predetermined depths, said testing means comprising a pressure regulator connectable to the pressure responsive means of a control mechanism being tested, manual pressure setting means representative of firing depth operatively connected to the pressure regulator, computer mechanism operative to compute depth error, means adapted to connect the elevator actuator of said control mechanism to the input of said computer mechanism, and means differentially connecting the output of the computer mechanism to the manual pressure setting means.

**2,649,751**
**BURGLAR ALARM**
**Walter H. Obrock, St. Louis, Mo.**
**Application January 26, 1950, Serial No. 140,602**
**3 Claims. (Cl. 116—91)**



1. In a burglar alarm, an alarm mechanism comprising a drive shaft, a drive gear fixedly connected to said drive shaft, a control gear operatively engaging said drive gear, key operated locking means selectively engaging said control gear for locking said drive shaft against rotation, and trigger means selectively engaging said control gear preventing rotation of said drive shaft, said control gear having an aperture therethrough disposed radially inwardly from the toothed edge of said control gear, said locking means selectively engaging said control means in said aperture.

**2,649,752**
**SELF-CONTAINED FIRE ALARM AND FIRE EXTINGUISHER**
**Paul J. Showstack, Dorchester, Mass.**
**Application January 10, 1952, Serial No. 265,885**
**10 Claims. (Cl. 116—106)**



1. A self-contained fire alarm signal comprising a container having an inert fluid contained therein, self-convertible from liquid to gas when escaping from higher than atmospheric to atmospheric pressures, said container having an external sealing coupling nipple on the bottom of the container connected to a pipe extending within the container to a point near the top thereof, a piercing cap connector having a piercing element with a gas escape channel extending longitudinally therein, said piercing element extending through the sealing of the coupling nipple and fitting over said nipple forming a seal for the fluid, said piercing cap connector having a portion providing a passage for said fluid with a seal therein comprising a low melting point fusible metal and means operated by the fluid escaping as a gas when said last seal melts for producing an alarm sound, said means having a conduit coupled to the piercing cap in said portion providing a passage for said fluid.

**2,649,753**
**CIGARETTE CASE TIMING INDICATOR**
**Robert H. Doye, Jr., Kansas City, Kans.**
**Application May 31, 1952, Serial No. 290,914**
**2 Claims. (Cl. 116—133)**




1. A cigarette case with a time indicator comprising a dished body section hinged to a cover section, a depression in the outer surface of said cover section and a corresponding embossment on the inner surface thereof, an arbor journaled through said cover at the center of said depression, an outer clockhand fixed to said arbor and mounted within said depression, a clock dial within said depression, an inner clockhand fixed to said arbor and extending over the inner embossed surface and movable with said outer clock-

hand to indicate the same time therewith, and an inner clock dial on said inner surface, said inner clock dial being in the reverse order of said outer clock dial.

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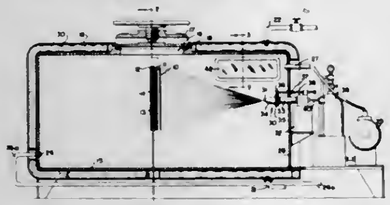
2,649,754

## APPARATUS FOR PLATING METAL OBJECTS

**Oliver F. Davis, Troy, and Hans G. Bellitz, Dayton, Ohio, assignors to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio**

**Original application July 14, 1949, Serial No. 104,754. Divided and this application February 16, 1950, Serial No. 144,528**

**3 Claims. (Cl. 118—49)**



1. Apparatus for plating objects by gaseous metal deposition, said apparatus comprising an airtight chamber, a liquid atomizing means disposed in said chamber, said means including a nozzle comprising a tubular member through which liquid to be atomized is introduced into said chamber, said tubular member being surrounded by an outer tubular member having an opening in its outer end for discharging gas to propel a fine spray of liquid metal carbonyl into said chamber, means for supporting material in said chamber and spaced from said nozzle for positioning material to be plated at the extreme range of said spray, means for heating said material which is arranged behind a protective shield adjacent said material support and remote from said nozzle, a window section in a wall of said chamber for viewing the interior, an inlet to said chamber for introducing inert gas, and exhaust means including an outlet from said chamber for removing inert gas and decomposition products from the chamber.

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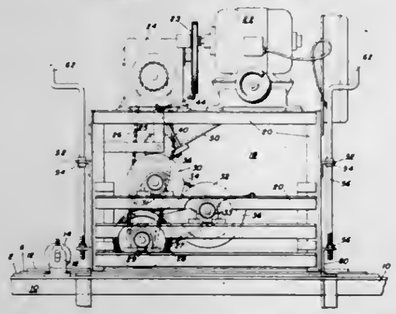
2,649,755

## APPARATUS FOR FINISHING WOOD

**Leslie Hess Jones, Memphis, Tenn., assignor to E. L. Bruce Company, Memphis, Tenn., a corporation of Delaware**

**Application October 7, 1950, Serial No. 188,970**

**1 Claim. (Cl. 118—248)**



In apparatus for the finishing of wood flooring units, a longitudinally extending conveyor for conveying wood flooring units, a framework mounted over said conveyor, said framework supporting three rollers rotatably mounted in axially parallel relationship, driving means mounted on said framework and rotating all of said rollers in the same direction, a trough partially surrounding the first of said rollers, said trough containing a coating composition, the second of said rollers being positioned adjacent to the first of said rollers to remove coating composition therefrom, a scraper mounted on said framework adjacent said second roller to control the thickness of coating composition carried by said second roller, the third of said rollers being in engagement with said second roller and removing the layer of coating composition therefrom, said third roller having a yielding rubber surface for engagement with said flooring units, and means for adjusting the distance between said third roller and said conveyor.

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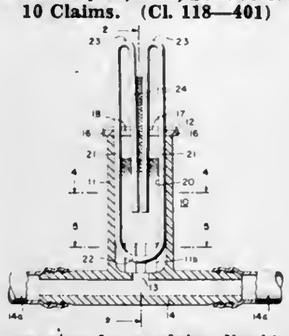
2,649,756

## MACHINE FOR APPLYING A TREATING LIQUID TO YARNS

**Walter Warren Egee, Yeadon, and John W. Bennett, Philadelphia, Pa., assignors to Fletcher Works Incorporated, Philadelphia, Pa., a corporation of Pennsylvania**

**Application May 31, 1952, Serial No. 290,862**

**10 Claims. (Cl. 118—401)**



1. In apparatus for applying liquid to yarn, a liquid container, an applicator extending into the container and outwardly therebeyond for passage therethrough of the yarn, said applicator being made from wire and having a pair of outer legs connected by a loop at the lower ends thereof and a pair of closely spaced inner legs for the reception of the yarn connected at the upper ends to the outer legs by loops of smaller size than said first mentioned loop.

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2,649,757

## COATING DEVICE FOR COATING ELONGATED OBJECTS

**William E. Diamond, Corinth, Miss., assignor to Edward W. Sharpe, Corinth, Miss.**

**Application July 11, 1950, Serial No. 173,080**

**4 Claims. (Cl. 118—404)**



3. A coating device comprising a container for coating material having opposed openings for passage there-through of an article to be coated, apertured gasket means covering one of said openings, said means being formed as part of a continuous strip having a series of apertures, one of which is aligned centrally of said one opening to wipe the excess of coating material from the article.



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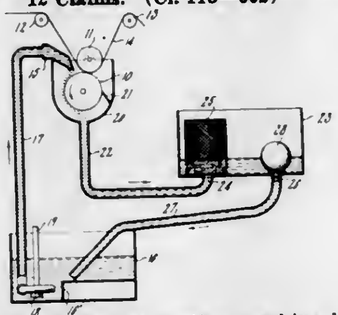
2,649,758

## COATING MACHINE WITH CIRCULATING SYSTEM

**William W. Cowgill, Fairfield, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**

**Application December 5, 1950, Serial No. 199,222**

**12 Claims. (Cl. 118—602)**



1. In combination, a coating machine having an applicator roll and a circulating system for circulating a coating liquid, said system comprising, a nozzle for applying coating liquid to the applicator roll, a reservoir for the liquid positioned beneath the nozzle, a conduit connecting the nozzle with the reservoir, means for pumping the liquid from the reservoir through the conduit to the nozzle, a trough beneath the applicator roll for receiving excess coating liquid, a surge tank positioned beneath the trough but above the reservoir, a conduit connecting the bottom of the trough and the surge tank, a second conduit connecting the bottom of the surge tank and the reservoir, and a float valve in the surge tank so associated with the second conduit as to regulate the flow of the liquid from the surge tank through the second conduit whereby a sufficient level of liquid will be maintained in the tank above the second conduit to prevent air from mixing with the liquid as it enters the second conduit and passes to the reservoir and thereby prevent foaming of the liquid.

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2,649,759

## TREATED CLAY ANIMAL LITTER

**S E Gibbs, Corydon, Iowa**

**No Drawing. Application October 5, 1950, Serial No. 188,648**

**2 Claims. (Cl. 119—1)**

1. A poultry and small animal litter composed of clay of the following formula: $SiO_2$ 67.5%, MgO 11%, $Al_2O_3$ 12%, CaO 2.5%, $Fe_2O_3$ 3.5% and other 3.25%, heated to at least 1600° F. and broken into pieces less than one inch in diameter.

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## ERRATUM

See Patent Numbers 2,649,841 through 2,649,861 for Classes 121 through 128

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2,649,760

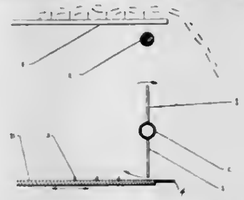
## COMBINE CHAFFER

**Elmer G. Gustafson, Cambridge, Ill.**

**Application October 25, 1950, Serial No. 192,018**

**2 Claims. (Cl. 130—24)**

1. In a thrasher having one end from which straw and chaff are discharged, a vibratory chaff and grain carrier mounted for reciprocating movement toward and away from the discharge end of said thrasher, means for reciprocating said carrier to move chaff toward said discharge end, a plurality of spaced fingers at the discharge end of said carrier, united thereto and projecting in the direction of discharge of said chaff, a shaft



rotatably mounted above said fingers, a plurality of radial fingers rigidly united to said shaft and spaced apart, said fingers being long enough to engage chaff resting upon said fingers on said carrier, and means driving said shaft in a direction to move said radial fingers along said carrier fingers away from said discharge end to propel chaff back over said carrier and upwardly to release the grain therefrom.

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2,649,761

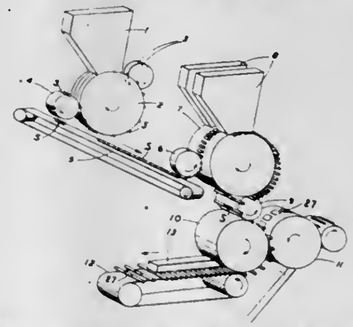
## MANUFACTURE OF FILTER TIP AND LIKE COMPOSITE CIGARETTES

**William Frederick Maitland Edwards, Esher, England, assignor to Filter Tips Limited, Pall Mall, England, a British company**

**Application June 19, 1951, Serial No. 232,273**

**In Great Britain June 19, 1950**

**7 Claims. (Cl. 131—94)**



1. Method of feeding laterally spaced assemblages of lengths of cigarette rod and stub portions to a rolling means, which method comprises forming assemblages travelling laterally of their axes at a given linear speed and at a positively determined lateral spacing less than the circumferential length of an assemblage, and feeding the formed assemblages to the rolling means at an increased positively determined lateral spacing greater than the said circumferential length and at a correspondingly increased linear speed.

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2,649,762

## PIPE ASH EJECTOR

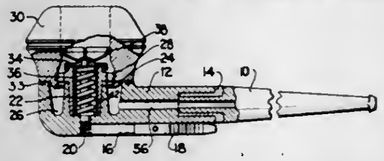
**John Di Federico and Norman S. Di Lorenzo, Southbridge, Mass.**

**Application August 4, 1949, Serial No. 108,644**

**6 Claims. (Cl. 131—183)**

5. A pipe comprising a body provided with a well, an annular wall rising from the bottom of

the well having a bore, a plunger in the bore, a flexible cover fixed on the plunger extending downwardly to the bottom of said bore, a bowl mounted on the body, a pipe cleaning element



on the plunger above the cover, and a jointed handle to reciprocate the plunger, said handle being retractable within a slot in the underside of the body, and spring pressed balls to yieldingly retain the same therein.

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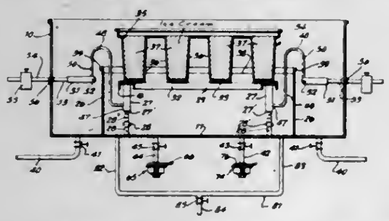
**2,649,763**
**HAIR-FASTENING MEANS RETAINABLE IN ITS POSITION FOR USE**
**Hélène Buergi-Schenk, Sankt Gallen, Switzerland**
**Application December 19, 1950, Serial No. 201,520**
**In Switzerland December 19, 1949**
**2 Claims. (Cl. 132—21)**



1. A hair fixing device consisting of the combination of a clasp of hair-pin shape with a back comb, whose back is doubled-up in the direction of the teeth to form a loop presenting a cavity extending normally to the teeth of the comb and concealing and confining one leg of said clasp.

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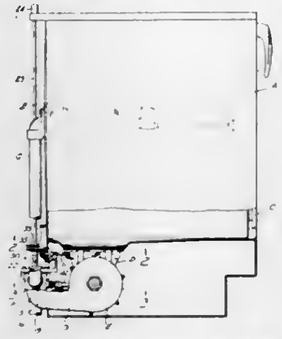
**2,649,764**
**APPARATUS FOR RELEASING FROZEN CONFECTIONS FROM MOLDS**
**Kosmas Eftihios, New Orleans, La.**
**Application September 20, 1950, Serial No. 185,830**
**4 Claims. (Cl. 134—56)**



1. In an apparatus for releasing frozen confections from mold sections of a mold member, the contents of which have been frozen in a brine solution, each of said mold sections having adhering thereto on its outer face droplets of brine solution, the combination of an outer tank having a wall member provided with a top edge, an inner tank adapted to receive a liquid softening bath and having a wall member provided with a top edge, said inner tank being disposed in said outer tank with the top edge of the inner tank below the top edge of the outer tank, a supporting member for mold sections mounted in said inner tank for vertical movement therein, means for limiting vertical downward movement of the supporting member when a mold member containing the frozen confection is placed upon said supporting member when the mold member is removed from the supporting member, said means comprising a downwardly projecting member mounted on the supporting member interengaging telescoping parts on said support member and inner tank, operating stops on said members extending over and clearing the top edge of the inner tank throughout the range of vertical movement of the arm, and a second arm connected to said first arm and passing through the exterior wall of the outer tank, said arm being mounted to provide for a relatively small amount of axial motion, and a weight on said second arm outside the wall of the outer tank, the weight being sufficiently heavy to cause an upward movement of the supporting member when the mold member containing the frozen confections is removed from the supporting member, means connected to the outer tank for draining overflow liquid received from the inner tank, and means for introducing softening liquid into the inner tank.

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**2,649,765**
**SELF-CLEANING STRAINER ARRANGEMENT FOR DISHWASHING MACHINES**
**Oscar M. Anderson, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut**
**Application July 18, 1946, Serial No. 684,423**
**5 Claims. (Cl. 134—104)**



1. In a dishwashing machine, a cabinet having a washing chamber, a nozzle in the washing chamber for directing sprays of water against the articles to be cleansed, a sump at the bottom of said chamber, a fluid pump having an inlet connected to said sump, a connection between the outlet of the pump and said nozzle, a valve in said connection including a valve member having a recirculating position where the outlet of the pump is in fluid communication with the nozzle and a drain position where the outlet of the pump is in communication with a drain, a strainer adapted to extend entirely across said sump, means for pivotally supporting the strainer in the sump to provide an axis of rotation extending transversely and centrally of the strainer and the sump, and manually operable control means including a shaft connected to the valve member for shifting said valve member from recirculating position into drain position and motion transmitting means connected to the means pivotally supporting the strainer and having a lost motion connection with said shaft for inverting said strainer to dump particles collected thereon after the valve member has been shifted from recirculating position and for reverting the strainer and shifting the valve member back to recirculating position.



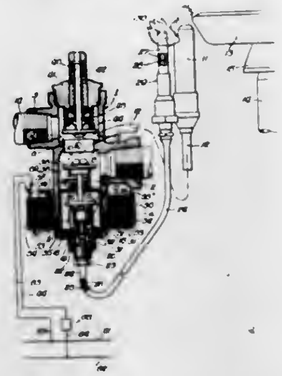
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**2,649,766**
**ELECTROLYTES FOR WET-CELL STORAGE BATTERIES**
**Floyd A. Johnson, Price, Utah**
**No Drawing. Application October 18, 1947, Serial No. 780,772**
**9 Claims. (Cl. 136—154)**

1. An electrolyte for use in lead-type storage batteries consisting essentially of 3700 parts of distilled water containing the following inorganic salts dissolved therein, .7 part of aluminum sulfate, 1.2 parts of boron nitride, 1.9 parts of magnesium sulfate, .3 part of copper sulfate, .3 part of zinc sulfate, .6 part of chromium sulfate, .8 part of ferrous sulfate, .6 part of titanyl sulfate, .5 part of calcium sulfate, and about .6 part of vanadium sulfate, all of the aforedescribed parts being parts by weight.

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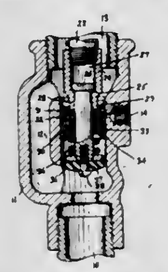
**2,649,767**
**ALTERNATING CURRENT DROP-OUT MEANS FOR THERMOELECTRIC SAFETY SHUT-OFF DEVICES**
**Russell B. Matthews, Wauwatosa, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin**
**Application December 27, 1950, Serial No. 202,939**
**13 Claims. (Cl. 137—65)**



1. In combination, a thermoelectric device having a non-magnetic body portion within which is disposed an armature and an electromagnet comprising a first magnetic frame and a first coil which when energized by a thermoelectric generator is adapted to establish magnetic flux through said first magnetic frame and said armature to hold said armature in attracted position, and a drop-out device surrounding the non-magnetic body portion of the thermoelectric device in position radially outwardly of said electromagnet, said drop-out device comprising a second magnetic frame in magnetically linked relation to said first magnetic frame and a coil which when energized is adapted to establish in second magnetic frame magnetic flux which links said first magnetic frame through said non-magnetic body portion and is in opposition to the magnetic flux established in said first magnetic frame by energization of said first coil and sufficient to reduce the attraction of the electromagnet within said non-magnetic body portion sufficiently to release said armature from said electromagnet, said first magnetic frame and said armature within said non-magnetic body portion providing a complete magnetic flux path independent of said second magnetic frame.

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**2,649,768**
**HYDRANT**
**Noel M. Anderson, Des Moines, Iowa**
**Application August 30, 1950, Serial No. 182,261**
**7 Claims. (Cl. 137—304)**



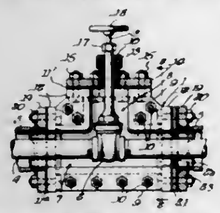
7. In a hydrant of the class described, a housing having an inlet and an outlet, a drain hole intermediate said inlet and outlet at one side of said housing, an unobstructed water channel connecting said inlet and outlet on the other side of said housing, a valve assembly operable in said housing intermediate said water channel and drain hole, said valve assembly comprising a valve stem mounted to slide in said housing in the direction of its length, a cylindrical plunger secured to the bottom of said valve stem, an internal shoulder in said plunger, a bolt having its head portion slidable and rotatable within said plunger intermediate said shoulder and the bottom of said valve stem, said bolt head portion engageable with said shoulder, a pair of cupped washers frictionally slidably arranged on the shank portion of said bolt, said washers being adjacent each other and having their cupped portions extending in opposite directions, a third washer on the bottom of said bolt adapted to seat at times in said inlet, a yielding means on said bolt having one end engaging one of said cup washers and the other end engaging said third washer, each of said cupped washers blocking the flow of water therepast from one direction respectively, said bolt movable upwardly and downwardly at times in unison with said valve stem and being stationary at times during the movement of said valve stem, movement of said cupped washers always being in unison with said valve stem, and one of said cupped washers operating to open and close said drain hole.

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**2,649,769**
**JACKETED VALVE**
**Edward W. Kaiser, Chicago, Ill.**
**Application June 30, 1951, Serial No. 234,601**
**6 Claims. (Cl. 137—368)**

1. A jacketed valve comprising a valve casing housing having outwardly opening and intercommunicating ways therein, one of said ways being angularly disposed with relation to the others, a valve casing in the housing ways spaced from the side walls thereof, a cover plate having an opening therein engaged with the housing

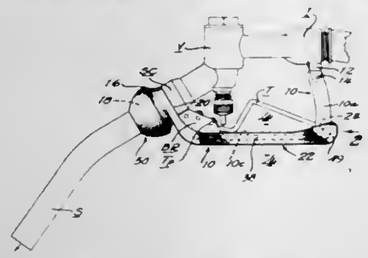
over the open outer end of said angularly disposed way, a stuffing box on the cover cooperatively associated with the cover opening, and a valve stem bonnet connected at one end to said



valve casing and extended therefrom into said angularly disposed way and through and beyond the opening in the cover plate and stuffing box and fixedly and supportingly engaged by said stuffing box.

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**2,649,770**
**PROTECTIVE COVERING FOR DISPENSING NOZZLES**
**Robert Hall, Los Angeles, Calif.**
**Application October 27, 1948, Serial No. 56,761**
**1 Claim. (Cl. 137—379)**

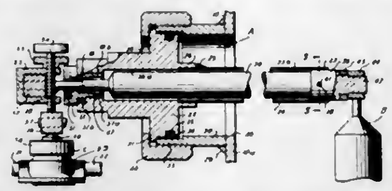


The combination with a dispensing spout for fluids having a trigger guard associated therewith, and which trigger guard is bifurcated at the rear thereof; a unitary member having one end provided with an orifice to receive the dispensing spout thereof; a channel member extending from said spout receiving member and adapted to embrace the lower side of said trigger guard; said channel member being provided with an upturned end to embrace the rear of said trigger guard; and said upturned end being provided with a protuberance to be received between the bifurcated ends of said trigger guard; said channel member being held on said trigger guard by resiliency of said channel member along said trigger guard, and the engagement of said upturned end with the rear thereof.

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**2,649,771**
**LIQUID LEVEL CONTROL APPARATUS**
**Asbury Sloan Parks, Houston, Tex.**
**Application July 16, 1949, Serial No. 105,203**
**11 Claims. (Cl. 137—413)**

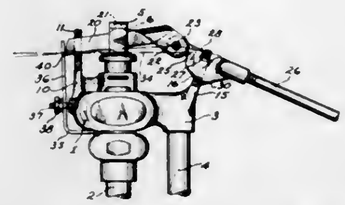
4. A control assembly responsive to variations in liquid level within a vessel including, a supporting member having one end secured to the inner wall of a pressure vessel and projecting inwardly into the interior of said vessel, said member having high resistance to bending and having a structural shape which provides a pair of longitudinal edges on the member which are unconnected and spaced from each other whereby said edges may move longitudinally with relation to each other without overlapping upon the application of torsional stress to the member to thereby impart torsional flexibility to said member, a drive element extending longitudinally of the member and having its outer end projecting through the wall of the vessel to the exterior thereof, means for sealing off between the drive element and the wall of the vessel, connecting means between the drive element and the sup-



porting member connecting said element to said member at a point spaced from the point of attachment of the supporting member ot the wall of the vessel, said connecting means permitting limited longitudinal movement of the member with respect to the drive element while maintaining a rotatable connection between said member and element, and a fluid displacement member suspended from the inner end of the drive bar.

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**2,649,772**
**LEVER MECHANISM FOR BALL COCKS**
**Harry F. Smith, Lexington, Ohio, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio, a corporation of Ohio**
**Application April 15, 1952, Serial No. 282,500**
**6 Claims. (Cl. 137—445)**

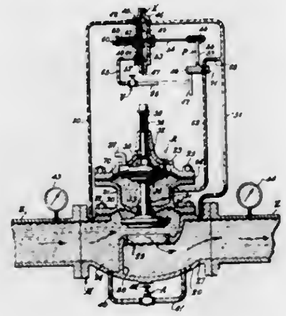


2. Lever mechanism for a ball cock valve comprising a valve body having a forward hush pipe extension, a rear column extending upwardly from said body, a front column extending upwardly and forwardly from said extension, each of said columns being provided with a substantially rectangular hole near its upper end, a valve plug having an upward extension provided with a substantially rectangular hole, a first flat lever extending loosely through the holes in the rear column and in the plug and stopping short of the front column, a second flat lever extending loosely through the hole in the front column and having an arcuate lower edge provided with a stop to engage the forward side of said front column, and a removable pin pivotally connecting together the adjacent ends of said levers.

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**2,649,773**
**DIFFERENTIAL PRESSURE OPERATED VALVE**
**Donald G. Griswold, Alhambra, Calif.**
**Application March 27, 1946, Serial No. 657,429**
**26 Claims. (Cl. 137—460)**

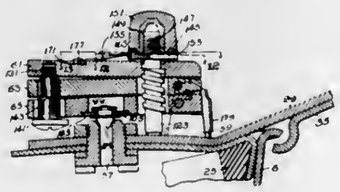
1. Fluid flow control means, comprising: a fluid pressure operated main valve including a pressure chamber and a closure element actuated to closed position by fluid under pressure in said chamber; a pressure-responsive device for controlling the supply and exhaust of operating fluid to said pressure chamber, said pressure responsive device including a diaphragm having the opposite sides thereof subject to the pressures



at the inlet and outlet sides of said main valve and a pilot valve actuated by said diaphragm to effect closing of said main valve upon a predetermined drop in pressure across said main valve; and manually operable means for venting one side of said pressure-responsive device to a zone under a different pressure irrespective of the pressure on the opposite side of said diaphragm.

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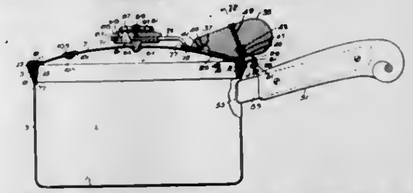
**2,649,774**
**ADJUSTABLE WEIGHT-BIASED RELIEF VALVE**
**Roland T. Spencer, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland**
**Application September 22, 1948, Serial No. 50,583**
**17 Claims. (Cl. 137—524)**



10. In a device of the character described a body having a vent opening, means for controlling said vent opening comprising a valve and at least three weights for urging said valve toward its seat, means mounting said weights on said body for vertical swinging in superimposed relation so that the lowermost is adapted to support those above it, lost motion couplings between all said weights for causing upward swinging of the uppermost weight into successive positions progressively to take up the lost motions of said couplings and progressively lift all the weights beneath it, and a manually operated lifting device for swinging the uppermost weight for lifting it relative to said body into such successive positions, whereby any number of the weights or none of them may be caused to control said vent opening.



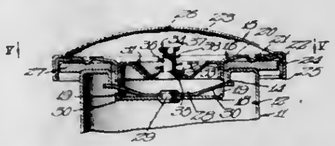
**2,649,775**
**RELIEF VALVE AND PRESSURE INDICATING MEANS FOR PRESSURE COOKERS**
**William A. Welden, Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland**
**Original application June 15, 1946, Serial No. 677,043, now Patent No. 2,614,723, dated October 21, 1952. Divided and this application August 21, 1947, Serial No. 769,788**
**7 Claims. (Cl. 137—533)**



1. A device for indicating the reaching of a predetermined pressure in a steam generator having a vent opening, which device comprises a turbine rotor, a movable weight on which said rotor is mounted, a passage in said weight for directing steam escaping from said vent opening to said rotor for operating the latter, said weight having a portion serving as a vent valve normally closing said vent opening and adapted to open against the gravitational effort of said weight upon the reaching of such pressure whereby to admit steam to said passage.

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**2,649,776**
**GAS TANK CAP VALVE**
**Anton W. Konchan, Berwyn, Ill.**
**Application November 17, 1949, Serial No. 127,943**
**1 Claim. (Cl. 137—541)**



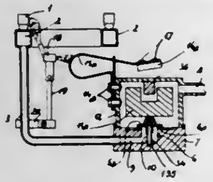
In a closure cap construction for closing the filling opening of a fluid receptacle, a body member comprising a stamped metal disk drawn into a generally dished configuration to provide a recess on one face of the disk and having a struck-out centrally apertured conical embossment extending into said recess and providing an annular conical valve seat on the opposite face of said disk, a venting valve having a complementary conical head seated on said seat and having a stem extending into said recess, and a coil spring in said recess having one end receiving said embossment and connected to said stem to normally load said valve closed, said valve opening against said spring for automatic venting, said stamping having a peripheral cylindrical flange extending in coaxial direction of said valve seat from said one face of the disk.

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**2,649,777**
**SAFETY VALVE DEVICE FOR GAS BURNERS AND THE LIKE**
**Gerson Saper-Sztejn, Grenoble, France**
**Application March 8, 1951, Serial No. 214,550**
**In France March 11, 1950**
**6 Claims. (Cl. 137—638)**

1. A thermostatically operated valve for gas burners and the like, comprising a tightly closed

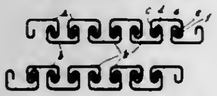
casing having an upper and lower wall, said casing being made of nonmagnetic material and adapted to be connected with a gas line, said casing having a gas outlet passage; a valve member adapted to close said gas outlet passage; a U-shaped permanent magnet disposed within said casing with its poles turned upwardly and vertically movable within said casing, said magnet resting on said valve member to maintain same in closed position by its own weight; an inner projection within said casing passing between the poles of said U-shaped permanent magnet to



guide same; a thermosensitive element exterior to said casing and arranged to move its free end substantially vertically and downwardly above said casing when it is heated; a block of magnetic material at the movable end of said thermosensitive element to cooperate with said permanent magnet through the upper wall of said casing to cause said magnet to rise within said casing when said thermosensitive element is heated; means for heating the thermosensitive element; and means to raise said valve member when said permanent magnet is raised by heat applied to the thermosensitive element.

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**2,649,778**
**FLEXIBLE TUBING OR CASING**
**Arthur André Buffet, Bondy, France, assignor to Etablissements Marret, Bonnin, Lebel & Guleu, Paris, France**
**Application July 29, 1947, Serial No. 764,331**
**In France November 14, 1939**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires November 14, 1959**
**1 Claim. (Cl. 138—51)**

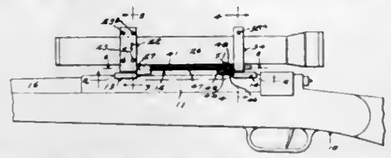


In a tube or flexible sheath, a first band of generally U-shape cross section wound into a helix, the legs of the U projecting radially outwardly and being defined by the edge portions of the band folded back upon themselves so as to form hooks transversely of the tube, a second band of similar configuration having the legs of the U projecting radially inwardly, said second band being spirally wound on said first band, whereby said legs of the second band engage with their hooked ends the corresponding portions of two consecutive turns of said first band.

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**2,649,779**
**DETACHABLE TELESCOPE SIGHT MOUNT**
**Robert R. Hardgrove and Ernest T. Lake, Livingston, Mont.**
**Application January 7, 1953, Serial No. 330,042**
**6 Claims. (Cl. 33—50)**

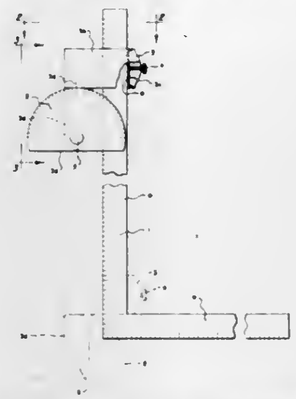
1. A telescope sight mounting for a firearm comprising a pair of adaptor blocks adapted to be secured to spaced portions of a firearm in longitudinal alignment, a pair of mounting brackets adapted to be detachably clamped to a telescope sight and disposed over said adaptor blocks and in engagement therewith, a first hook fixed to the first one of said mounting bracket and engaging under an end of a first one of said adaptor blocks, said hook having a socket opening outwardly thereof toward the other, second mounting bracket, a rod having one end seated in said socket and having a portion remote to



said end extending through said second mounting bracket, means detachably securing the second mounting bracket adjustably to said rod, a second hook slidably mounted on said rod, spring means urging said second hook toward the second mounting bracket and the other second adaptor block for positioning a bill portion of the second hook under a part of said second adaptor block for detachably retaining said mounting brackets in engagement with the adaptor blocks.

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**2,649,780**
**ANGLE MEASURING TOOL**
**Clair H. Anderson, Sr., San Diego, Calif.**
**Application January 26, 1951, Serial No. 207,960**
**5 Claims. (Cl. 33—94)**

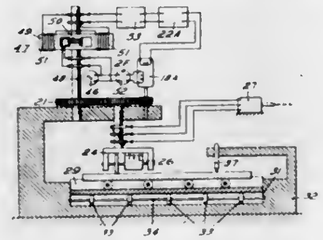


1. An angle measuring tool consisting of a one piece square, an L-shaped clamp consisting of members shiftable longitudinally on an arm of said square, a protractor pivotally mounted on one member of said L-shaped clamp at its end and arranged to be shifted so that it may be axially pivoted outwardly of the corner forming the apex of said square.

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**2,649,781**
**AUTOMATIC MAPPING SYSTEM**
**Dayton H. Clewell, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**
**Application September 3, 1947, Serial No. 771,997**
**5 Claims. (Cl. 33—141.5)**

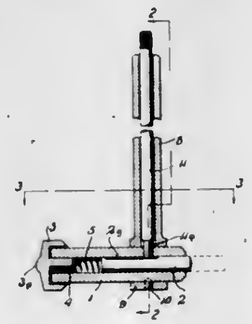
1. In an automatic system for effecting relative movement between a stylus and a map support to indicate the position of a vehicle and to trace its course, an azimuth-sensitive detector, circuit elements and a controlled element energized by said detector in response to azimuthal motion thereof with respect to the earth's field rotationally to orient said detector and said controlled element on a predetermined azimuth heading, a wheel mounted on said controlled element with a diameter of said wheel substantially coincident with the axis of rotation of said



controlled element and with the plane of said wheel aligned with said predetermined azimuth heading, and a motor mounted on said controlled element continuously to drive said wheel in accordance with forward and reverse motions of the vehicle, said wheel being coupled to the map support to drive it in radial motion about the axis of said controlled element on the azimuthal heading determined by said detector, whereby a polar-coordinated plot of the vehicle's position and course of movement is produced.

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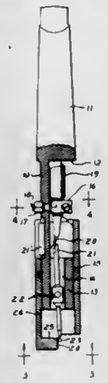
**2,649,782**
**CYLINDER BORE TAPER GAUGE**
**Gaylord E. Smith, Muskegon, Mich., assignor to Muskegon Piston Ring Company, Muskegon, Mich., a company of Michigan**
**Application September 19, 1951, Serial No. 247,250**
**4 Claims. (Cl. 33—164)**



3. A gauge comprising, a horizontal sleeve, a rod telescopically received in one end of the sleeve, a stud threaded into the opposite end of the sleeve, said stud having a head at its outer end, a yielding compression spring between the adjacent ends of the stud and rod, a vertical tube secured at its lower end to the sleeve between its ends, a second rod extending lengthwise of the tube and threaded through the sleeve to clamp or release said rod in the sleeve, said sleeve and head having a cooperating scale and pointer.



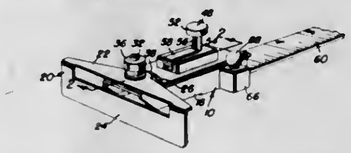
**2,649,783**
**CENTER FINDER**
**Raymond N. Baugh, Bridgeport, Conn.**
**Application June 27, 1950, Serial No. 170,510**
**5 Claims. (Cl. 33—172)**



1. A tool center finder comprising in combination, a body member including a shank adapted to be received by a hollow spindle; clamp means on said body member adapted to hold a presettable indicator; a pre-settable indicator in said clamp means; a pivotally-mounted finger adapted to cooperate with said indicator and means that is to be aligned with the axial centerline of said spindle; and means separate from said finger means adapted to cooperate with said body member and said finger means for facilitating the pre-setting of said indicator relatively to the centerline of said body member.

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**2,649,784**
**RULER GAUGE**
**Leo J. Klimek, Sauk Centre, Minn.**
**Application March 16, 1953, Serial No. 342,615**
**4 Claims. (Cl. 33—173)**



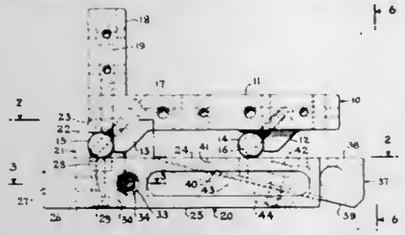
1. A ruler attachment comprising an elongated, open ended housing, an angle base member having one flange overlying one end of said housing and being pivotally adjustably secured to said housing, and means carried by said housing for clampingly retaining a ruler in the housing, said means comprising a guide casing engaging the housing, said housing having an opening facing the casing, a pressure element slidably carried by the casing and extending through the opening and into the housing, and means carried by said casing engaging the pressure element to retain the same against sliding movement.

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**2,649,785**
**SINE BAR FIXTURE**
**Paul J. Sirko, New Britain, Conn.**
**Application February 10, 1949, Serial No. 75,730**
**3 Claims. (Cl. 33—174)**

1. In a sine bar fixture, an upper sine bar having a pair of front and rear parallel cylindrical

transverse shafts adjustably secured to the undersurface thereof, an underlying base, a longitudinally movable tapered slide mounted on said base, means to connect said slide to said base in any desired adjusted position, a locking fixture



mounted on said base and having a resilient split section embracing said rear shaft, and a screw-operated wedge compressing said split section to clamp it securely upon said rear shaft for holding said sine bar against swinging movement.

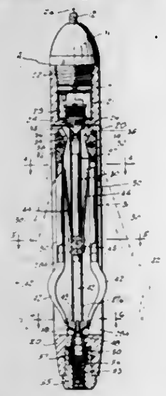
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**2,649,786**

**WELL BORE CALIPER HAVING LINEAR ELECTRICAL RESPONSE**

**Ralph W. Goble, Long Beach, Calif., assignor to Eastman Oil Well Survey Company, Denver, Colo., a corporation of Delaware**

**Application April 1, 1948, Serial No. 18,364**
**11 Claims. (Cl. 33—178)**



1. A well caliper apparatus for measuring the cross-sectional area of a well bore including, a measuring instrument comprising, an elongate body adapted to be lowered within a well bore, a plurality of measuring arms movably mounted on said body and normally urged toward an outward position whereby said arms engage the wall of the well bore and are moved inwardly and outwardly of the body in accordance with variations in the well bore diameter, an electrical transmitter mounted in the body and having means for generating and transmitting electrical pulses of a predetermined frequency, an electrical coil having a core and being connected in the electrical circuit of the transmitter and functioning to vary the frequency of the transmitted electrical pulses when the inductance of said coil is varied, magnetic means carried by the measuring arms and movable with respect to the core of said coil when the arms are moved by variations in the cross-sectional area of the well bore, whereby the magnetic influence of the magnetic means on the core of the coil varies to change the inductance of the coil and thereby vary the frequency of the transmitted pulses in accordance with the movement of the measuring arms, said measuring arms being mounted so that the movement of the magnetic means is on a curved line with respect to the surface of the core of the coil and further the surface of the core has such a curvature with respect to the line of movement of the magnetic means that the variation in inductance of the coil and the resultant variation in the frequency of the transmitted pulses is linear and in direct proportion to the amount of movement of the measuring arms.

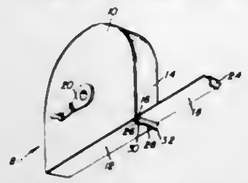
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**2,649,787**

**SCRATCH MARKER FOR MEASURING TAPE**

**Harry T. Kobayashi, Honolulu, Territory of Hawaii, assignor of fifty per cent to Sally Kobayashi, Honolulu, Territory of Hawaii**

**Application May 12, 1950, Serial No. 161,523**
**1 Claim. (Cl. 33—189)**



A measuring tape construction of the class described comprising a hollow case having at least two flat marginal wall portions, said wall portions being at right angles to each other, one wall portion having a transverse tape slot, said slot being in close proximity to and substantially parallel with one end of the other wall portion, said other wall portion being provided at its said one end with an integral scribing lug, said lug being disposed transversely of said one end flush with said one wall portion and depending at right angles to said other wall portion, said lug extending flush with the opposed longitudinal edges of the tape when the tape is extended beyond the slot, the lower edge of said lug being notched intermediate its ends to provide prominent scratch markers at the respective ends.

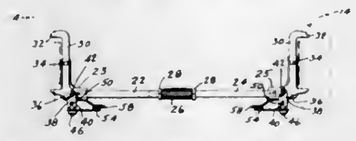
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**2,649,788**

**WHEEL TOE-IN CHANGE INDICATOR**

**David J. Tyerman, Burbank, Calif.**

**Application November 13, 1950, Serial No. 195,321**
**1 Claim. (Cl. 33—203.2)**



A toe-in change indicator for automobiles comprising a pair of associated relatively slidable holding bars adapted to be positioned between the wheels, a spring on the overlapping portions of said bars for forcing the same into wheel contacting position, an L-shaped bracket on the end of each bar and extending rearwardly therefrom when the indicator is in use, a bifurcated element pivotally mounted on the end of each L-shaped bracket for actual wheel contact by said bifurcations, an integral extension of said element projecting forwardly and inwardly of same, a vertical gauge plate fixedly mounted on each L-shaped bracket adjacent the point of connection with its supporting bar, a pointer adapted to move over the gauge plate, a shaft for pivotally mounting the pointer in the L-shaped bracket, a pin fixed in said shaft behind the pointer and an adjusting plate mounted on the extension of each bifurcated element, said adjusting plate being also bifurcated and adapted to receive the upper end of the pin between said bifurcations.



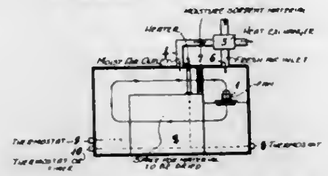
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**2,649,789**

**METHOD AND APPARATUS FOR DISCONTINUOUS DRYING USING A HEATING AND A COOLING CYCLE**

**Erik Olof Emanuel af Geijerstam, Stockholm, Sweden, assignor to Aktiebolaget Enköpings Verkstader, Enkoping, Sweden, a corporation of Sweden**

**Application January 23, 1951, Serial No. 207,307**
**In Sweden November 3, 1949**
**8 Claims. (Cl. 34—13)**



1. The method of drying a material containing moisture which comprises the steps of: circulating a stream of air and causing it to come in contact with said material to be dried; initially heating said stream of air and causing it to pass through a moisture sorbent material and dry the same prior to its coming in contact with said material to be dried; and subsequently discontinuing said heating and allowing said circulating air to become cooler, whereby moisture is removed from said circulating air by said sorbent material, and drying of the material to be dried is completed at falling temperatures while simultaneously cooling the material.

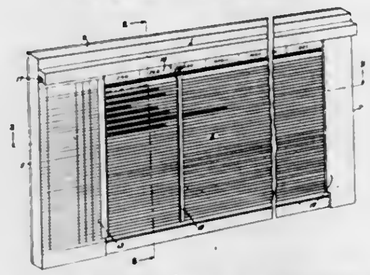
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**2,649,790**

**VISUAL CONTROL BOARD**

**Claude W. Johnson, Berkeley, Calif., assignor to Trendicator Systems Co., a corporation of California**

**Application June 19, 1948, Serial No. 33,942**
**2 Claims. (Cl. 35—24)**



2. A control board panel unit assembly comprising a panel including a board and means for slidably supporting a plurality of tapes relative to one another in superposed relationship on such board, said means including a plurality of end posts, one against the other, adjacent an end of said board, each of said end posts having grooves for receiving tapes at spaced positions therealong with the grooves of each corresponding with the grooves in the others, a plurality of tapes supported in slidable superposed relationship by said tape supporting posts, and means for removably supporting a strip of material beneath the paths of movement of said superposed tapes for carrying information pertinent to a control problem, said last means including a backing sheet of transparent plastic material disposed against said board, and a pocket of transparent plastic material on said backing sheet disposed for registry behind such tapes.

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**2,649,791**

**TELESCOPE**

**Lawrence E. Braymer, Lahaska, Pa.**

**Application June 16, 1948, Serial No. 33,320**
**20 Claims. (Cl. 35—43)**



11 A telescope comprising a support, a mount having an arm pivotally connected with said support and an arm normal to said first named arm, a rotary cylindrical member supported by said second named arm and extending longitudinally to said first named arm and being intersected by an extension of the axis of said pivotal connection, said cylindrical member having its external surface substantially unobstructed by mounting members throughout its length and having thereon a celestial map, a time scale encircling said rotary member, a datum complementary to said time scale for the coordination of said celestial map and the celestial sphere, and an optical system having its principal optical axis within said rotary member and concentric with the axis thereof.

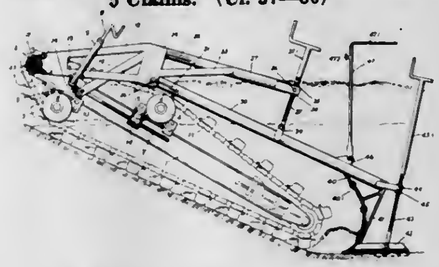
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**2,649,792**

**ADJUSTING MECHANISM FOR THE DIGGING BOOM AND SCRAPER BOOM OF ENDLESS TYPE DITCHING MACHINES**

**Glen E. Miller, Marion, Iowa**

**Application July 10, 1948, Serial No. 37,991**
**5 Claims. (Cl. 37—86)**

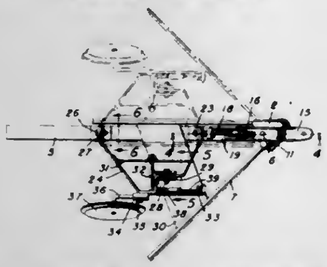


1. In a motor-propelled chain excavating machine having a frame with a drive shaft mounted

thereon in a divided housing, a rigid framework adjustably united to the drive shaft housing and extending rearwardly and upwardly therefrom, a chain boom having its front end adjustably mounted upon said housing and extending rearwardly and downwardly therefrom, a supporting boom having its front end rigidly united to said framework and extending rearwardly over the chain boom and spaced therefrom, a scraper boom having its front end pivotally united to said framework below the supporting boom and extending rearwardly in a common vertical plane with the supporting boom approximately even with the rear of the chain boom, a scraper mounted on said scraper boom, a yoke united to the rear end of the supporting boom, an internally threaded sleeve or nut mounted in the yoke having a threaded vertical bore, an adjusting rod extending through the bore of said nut having threads in mesh therewith, the lower end of said adjusting rod being revolvably attached to said scraper boom and the upper end thereof being united to the shaft of a manually operable crank arranged to rotate said rod whereby rotation of said adjusting rod will raise or lower the scraper boom relatively to the supporting boom.

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**2,649,793**
**REVERSIBLE DITCHING PLOW**
**Lehi A. Draves, Nucla, Colo.**
**Application August 15, 1949, Serial No. 110,330**
**2 Claims. (Cl. 37—98)**

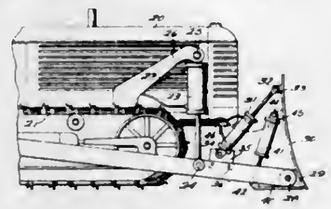


1. A ditch digging machine comprising a beam, a V-shaped scraper blade, a vertical pivot pin at the front end of said beam, said blade being pivoted at its apex to the front end of said beam and on said pivot pin for swinging either side of said blade outwardly from said beam, a cross member rigidly connecting said sides of said blade to each other, a wheel mounting pivotally carried by said beam for movement outwardly at either side thereof about a horizontal axis extending longitudinally of said beam, a wheel supported by said wheel mounting, means anchoring said wheel mounting to said cross member at either side of said beam, and means for vertically adjusting said wheel to raise or lower the adjacent side of the blade.

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**2,649,794**
**BULLDOZER**
**Fred O. Wood, St. Louis, Mo.**
**Application December 19, 1946, Serial No. 717,215**
**2 Claims. (Cl. 37—144)**

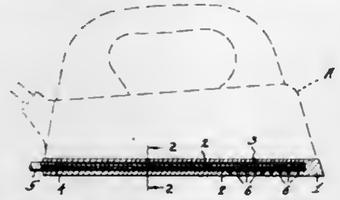
1. In combination, a tractor, a pair of spaced, parallel beams secured to the rear end of said tractor, hydraulic means extending between the tractor and the beams for vertically adjusting said beams, an arcuately-shaped blade arranged forwardly of said tractor and pivotally connected to said beams, hydraulic means extending between the top of said blade and said beams for adjusting the inclination of the blade, a plurality of spaced, parallel, vertically disposed lugs arranged adjacent the lower edge of the blade and extending inwardly from the ends thereof, said lugs being provided with aligned openings, a pair of shoes each provided with spaced parallel projections extending into the spaces between said lugs, there being openings in said projections registering with the openings in said lugs,



a shaft extending through said registering openings, apertured fingers arranged centrally on said shoes at the rear marginal edges thereof, a pair of transversely spaced brackets secured to the rear surface of said blade, a pair of hydraulic rams having their lower ends pivotally connected to said fingers and their upper ends pivotally connected to said brackets, and conduits for connecting said rams to a source of hydraulic fluid whereby to provide for independent adjustment of said shoes.

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**2,649,795**
**STRUCTURE FOR CONDUCTING FLUID MEDIUMS**
**Thomas B. Hughes, Granite City, Ill.**
**Application June 28, 1949, Serial No. 101,749**
**2 Claims. (Cl. 38—77)**

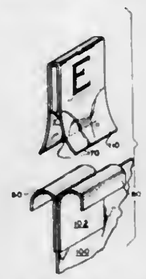


1. A structure adapted for passage therethrough of a medium, comprising a body portion in the form of a one piece integral casting, an insert plate disposed within said body portion, and a cavity formed within said body portion in which said insert plate is disposed with a space being present between the various faces of said insert plate and adjacent wall portion of said cavity to provide a passageway for the medium moving through said structure, said cavity being completely enclosed by solid integral portions of said one-piece integral casting that comprises said body portion and said structure having an inlet adjacent to one end and an outlet adjacent to the other end.

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**2,649,796**
**INDEX TAB DEVICE**
**Philip Zalkind, New York, N. Y.**
**Application April 22, 1949, Serial No. 89,043**
**13 Claims. (Cl. 40—23)**

1. An indicia device having a backing member comprised of a tab and a narrowed tongue integrally depending therefrom, an adhesively coated sheet having portions adhering to said tab and to said tongue, said sheet having an adhesive area exposed transversely beyond the sides of said tongue for application to the marginal edge

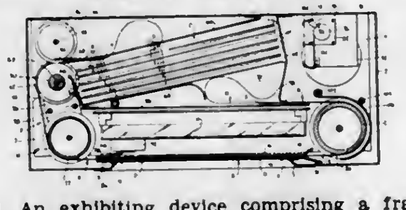


of a folder or the like, said tongue extending downwardly from said tab and co-planar therewith, the extended length of said tongue being substantially equal to that of said sheet in the extended direction.

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**2,649,797**
**EXHIBITING DEVICE**
**William Francis O'Gorman, New York, N. Y., assignor to Lester B. Stone, New York, N. Y.**
**Application December 23, 1950, Serial No. 202,499**
**8 Claims. (Cl. 40—32)**



1. An exhibiting device comprising a frame with an exhibiting station and a storage space having an entrance and an exit at opposite ends thereof, a plurality of display panels adapted to be stacked in parallel relationship in said storage space from entrance to exit and individually movable from the entrance end of said storage space through said storage space to the exit end thereof and thence out of said exit to said exhibiting station over a curved path, means for moving and guiding said panels along said curved path, and flexible connecting elements secured between said panels, the distance from said exit to the nearest portion of said exhibiting station thereto being substantially equal to the length of said connecting elements, the length of said panels being no greater than the length of said connecting elements, so that said panels will not fold when entering, moving within or leaving said storage space, and will always be in substantially flat condition except when being moved from said storage space to said exhibiting station

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**2,649,798**
**ADVERTISING CARD CONVEYER**
**Cesar Bustamante, New York, N. Y.**
**Application November 10, 1950, Serial No. 195,116**
**5 Claims. (Cl. 40—96)**

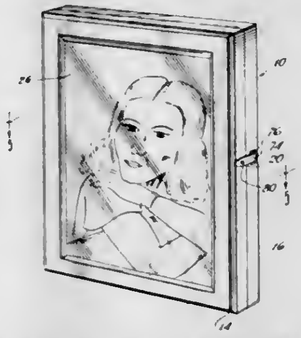
1. In advertising conveyor apparatus, a pair of vertically spaced endless conveyor chains, sprockets at each end of said chains, means for simultaneously driving said chains, card frame supports spaced along said chains throughout both front and rear reaches thereof, pivot means for connecting said supports to each of said chains to allow said supports to remain in a forward-facing position as they are carried around said sprockets and also to allow said supports to tilt should one driving chain travel ahead of or



behind the other, card frames carried by said supports, each frame being pivoted to its support by a single horizontal pivot, and each of said frames having means engaging the lower conveyor chain to maintain the frame in horizontal position as it travels.

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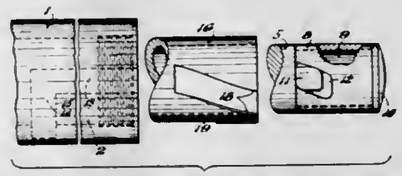
**2,649,799**
**PICTURE-FRAME ALBUM**
**Maurice Spertus, Highland Park, Ill.**
**Application August 19, 1950, Serial No. 180,461**
**6 Claims. (Cl. 40—152)**



1. In a device of the character described, a picture frame adapted to display a photograph therein, another closed-back frame affording a compartment therein, both of said frames pivotally connected along one side, a locking device affixed to the opposite side, the rear wall of said compartment formed with a pocket therein and an album adapted to being positioned within said compartment with one cover positioned within said pocket.

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**2,649,800**
**BREECH MECHANISM FOR FIREARMS**
**James B. Peters, Lynn, Mass.**
**Application November 29, 1950, Serial No. 198,193**
**6 Claims. (Cl. 42—16)**

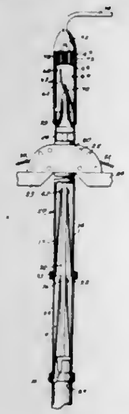


4. In a firearm a breech mechanism comprising a receiver, a cylindrical bolt mounted within said receiver solely for longitudinal motion, a collar rotatably mounted on said bolt and longitudinally fixed on said bolt, a lug mounted on said collar and extending outwardly therefrom,

an L-shaped guide channel in said receiver receiving said lug and permitting longitudinal motion thereof in one leg of said channel and rotation thereof in the other leg of said channel, said latter leg being forward of said former leg, and a bolt actuating sleeve mounted solely for longitudinal motion interposed annularly between said bolt and said receiver, said bolt actuating sleeve having a spiral recess defining opposing spiral cam surfaces defining a channel receiving an intermediate portion of said lug and operable against the lug, whereby rectilinear longitudinal motion of said actuating sleeve separately imparts rotational movement and rectilinear longitudinal movement to said lug within the confines of said L-shaped guide channel.

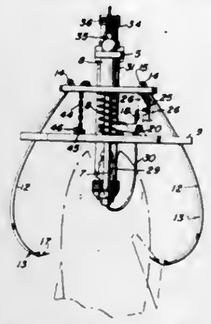
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**2,649,801**
**APPARATUS FOR FISHING THROUGH ICE**
**Earl C. Freeman, Milwaukee, Wis.**
**Application May 22, 1951, Serial No. 227,579**
**4 Claims. (Cl. 43—17)**



1. Ice fishing equipment comprising a tubular structure adapted to be supported in upright position in a hole in ice covering a body of water with one end above and its other end below the ice, means secured to said tubular structure near said one end thereof for supporting said tubular structure on ice, a rod extending through said tubular structure and longitudinally movable therein, flexible means providing a fluid seal between said rod and said tubular structure near said other end of the latter, a signal bobber on said rod at said one end of the tubular structure and movable into and out of the latter by movement of said rod, means at the other end of said rod for connecting a fishing line thereto, said bobber being movable into said tubular structure in response to the pull of a fishing line on said rod, and a signal head secured on said tubular structure at said one end thereof and actuated by said bobber, said signal head comprising a sleeve receiving said tubular structure at said one end thereof, a flexible pole secured at one end to said sleeve, a flag secured to said pole near the other end thereof, an arm secured at one end to said sleeve and engageable at its other end with said other end of the pole to hold the latter in a bowed condition, a trigger lever pivotally mounted on said arm and engageable with said pole to free the latter from said arm, and means connecting said bobber to said trigger lever.

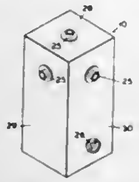
**2,649,802**
**TRAP HOOK**
**Lester E. Poston, Algood, Tenn.**
**Application January 20, 1950, Serial No. 139,674**
**2 Claims. (Cl. 43—89)**



1. A trap hook comprising an upper plate, a pair of rods extending downwardly therefrom and having heads on the lower ends thereof, a lower plate slidable downwardly on the rods into engagement with said heads and having a central aperture therein, springs on the rods between said plates sliding the lower plate downwardly, a plurality of jaws pivoted to the upper plate and on which the lower plate is slidable for opening and closing the jaws, a trigger pivoted on the lower plate on top thereof with one end overlying said aperture and adapted for suspending a bait holder depending through said aperture, and a lug on said upper plate depending from one side edge thereof engaging said trigger to hold the lower plate raised.

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**2,649,803**
**SNAP-FASTENER TOY BLOCKS**
**Robert F. Andre, Cleveland Heights, Ohio, assignor, by mesne assignments, to International Molded Plastics, Inc., a corporation of Ohio**
**Application June 24, 1952, Serial No. 295,213**
**1 Claim. (Cl. 46—25)**

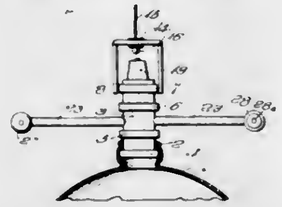


A toy building set comprising a plurality of building block elements of substantially rigid material, each of said elements having an outside surface in one plane and walls extending at angles to said one plane from said surface, said walls extending from said surface for a substantial distance to provide a gripping area for the user's hand grasping said walls upon assembling and disassembling said elements, fastening means on said surfaces, respectively, for joining said elements together, said fastening means consisting of a male fastening part and a female fastening part, some of said elements having at least one male fastening part secured thereto at the said surface thereof and other of said elements having at least one female fastening part secured thereto at the said surface thereof, said female fastening part having a round socket portion and a ring portion positioned at the mouth of, and surrounding said socket portion, said ring portion being disposed adjacent to and extending outwardly from the surface of the element to which the female fastening part is secured whereby the mouth of the socket portion is spaced from said surface, said male fastening part having a round extending portion and having a flange portion disposed adjacent to, but extending outwardly from, the surface of the element to which the male fastening part is secured and surrounding said extending portion, said extending portion of the male fastening part and said socket portion of said female fastening part being interengageable in a snap action and readily detachable arrangement and being rotatable relative to each other, said ring portion of the female fastening part and said flange portion of the male fastening part being interengageable with each other and forming an annular bearing between joined elements during rotative movement and also providing for spacing between the joined elements and a fulcrum for separation of the interengaged fastening parts upon hand-grasping said walls of the joined elements respectively and changing the angular disposition of the said walls of one element relative to the other to tip one of the joined elements relative to the other, the distance said walls extend from the respective surfaces of said elements being substantially greater than the distance separating the opposed surfaces of joined elements.



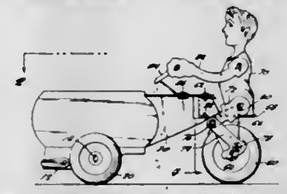
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**2,649,804**
**JET-PROPELLED SPINNING BALLOON**
**John Kennedy, Detroit, Mich.**
**Application September 26, 1950, Serial No. 186,782**
**9 Claims. (Cl. 46—56)**



1. A jet-propelled spinning balloon comprising in combination with an inflatable toy balloon terminating in a neck portion, a hollow cylindrical plug insertable at one end into the neck portion of the toy balloon and having a swiveled connection device fastened to the opposite end thereof, suspension means connected with said swiveled connection device, an injection orifice in the last mentioned end of said plug, a check valve within said plug and coacting with the injection orifice for allowing inflation of the balloon through the injection orifice and obstructing the injection orifice against escape of air therethrough from the inflated balloon, and a tubular jet arm extending diametrically through said hollow cylindrical plug and having an opening for the discharge of air from the interior of said tubular plug, said tubular jet arm having a jet orifice on each end thereof whereby air escaping from the inflated balloon establishes pressure thrusts against the atmosphere for effecting a spinning of the toy balloon.

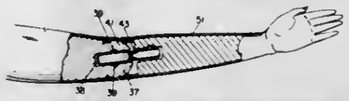
**2,649,805**
**WHEELED TOY WITH AUTOMATICALLY STEERING CYCLIST**
**Raymond J. Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York**
**Application March 9, 1949, Serial No. 80,346**
**25 Claims. (Cl. 46—109)**



1. A vehicle toy having a slow speed shaft geared by means of suitable gearing to a high speed shaft, a motor for driving said shafts, a driving wheel at one side of said vehicle driven by said high speed shaft, an arm at the opposite side of said vehicle mounted on and rotated by said slow speed shaft, said arm having a radius such that when in the course of its rotation it points downward it bears against the surface on which the toy is running and acts as a pivot point about which the vehicle is turned by the aforesaid driving wheel on the other side of the vehicle.

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**2,649,806**
**DOLL OR MANIKIN JOINT**
**Frank P. Monaghan, New York, N. Y.**
**Application July 19, 1949, Serial No. 105,512**
**2 Claims. (Cl. 46—173)**



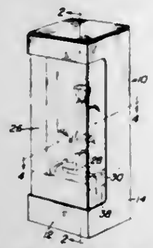
1. A molded plastic joint structure for dolls, manikins, and the like figures, comprising a first molded plastic part having a rounded disc-shaped end portion, a second molded plastic part having a rounded slotted end portion, said disc-shaped end portion being mounted in said slot and its surfaces engaging the respective opposite surfaces of the slot, at least one pair of the engaging surfaces including an integral retaining and pivoting means consisting of a projection on one of the surfaces engaging in a recess in the other surface, said means being substantially centrally located with respect to the disc-shaped end, one of said parts having a substantially cylindrical opposite end portion having an integral projection on its cylindrical surface, a third molded plastic part having a substantially cylindrical cavity in one end into which said cylindrical end is fitted for rotation, the cylindrical wall of said cavity having a peripheral recess in which the projection on the cylindrical end is retained and in which it is moved upon relative rotation of the parts, said parts being held together in their assembled relationship solely by the engagement of said integral projections in the respective recesses.

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**2,649,807**
**PLANT SHIPPING CONTAINER**
**Alexander S. Ritter, Brielle, N. J.**
**Application November 28, 1950, Serial No. 197,926**
**2 Claims. (Cl. 47—37)**

1. A shipping container for potted plants, said container comprising an elongated hollow body

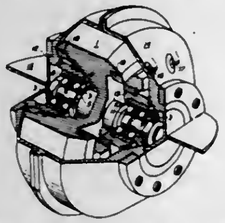
having a rear wall, a longitudinal channel mounted within the body in front of and facing said rear wall and having a flexible tongue at one end spaced from one end of the body and adapted to fit into a plant pot to retain the pot at said one end of the body and substantially centered in the body, said body including an end wall



underlying said tongue and a rear wall having an extension secured in juxtaposition with said end wall, and a U-shaped resilient clip including upper and lower leg portions, said lower leg portion being engaged between said extension and said end wall and said second leg portion having a downwardly offset free end portion for yieldingly engaging in a pot to hold soil therein.

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**2,649,808**
**GYROSCOPE**
**John M. Slater, Inglewood, Robert M. Benson, Buena Park, and Darwin L. Freebairn, Southgate, Calif., assignors to North American Aviation, Inc.**
**Application January 24, 1949, Serial No. 72,524**
**10 Claims. (Cl. 74—5)**

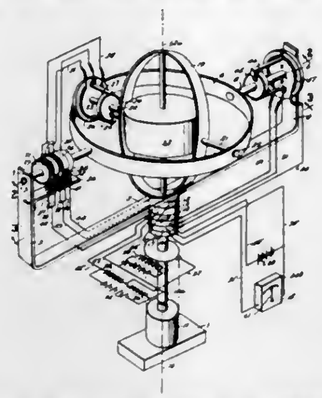


9. A gyroscope comprising a housing of material having low coefficient of temperature expansion, a rotor of the same material as said housing having an enlarged rim and a web decreasing in thickness toward the center thereof, a shaft for supporting said rotor, and ball bearing means on each end of said shaft having predetermined contact angles with races anchored to said shaft and said housing, said contact angles being of a critical value to cause said bearings to have substantially equal radial and axial deflection characteristics whereby the characteristics of said gyroscope remain the same despite temperature change, accelerations, and Poisson contraction of said motor.

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**2,649,809**
**TUMBLEPROOF, SPILLPROOF, OR GIMBAL-LOCK-FREE GYRO**
**Stephen Joseph O'Neil, Lexington, Mass.**
**Application October 25, 1951, Serial No. 253,186**
**8 Claims. (Cl. 74—5.2)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. In a non-tumbling gyroscope device, a rotatable outer gimbal support adapted to be carried by a vehicle subject to tilt displacements and having an axis fixed relative to the vehicle; an outer gimbal journalled in the outer gimbal support for tilt displacements about an axis perpendicular to the outer gimbal support axis; an inner gimbal tiltably journalled in the outer gimbal for tilt displacements about an axis perpendicular to the outer gimbal tilt axis in a plane including the rotary outer gimbal support axis; a gyroscope rotor mounted to spin in the inner gimbal on a spin axis in a plane perpendicular to the outer gimbal tilt axis; servomotor means for selectively rotating the outer gimbal support about its axis; an electrical energizing circuit for the



reversable servomotor means to energize the same; signal pickoff means between the inner and outer gimbals connected in the energizing circuit for energizing the circuit incident to tilting displacement between the inner and outer gimbals to rotate the outer gimbal support about its rotative axis to dispose the outer gimbal tilt axis perpendicular to the rotor spin axis; signal pick-off means between the outer gimbal and outer gimbal support including an energizing circuit; and tilt indicating means operable by said last mentioned energizing circuit incident to tilt displacements between the outer gimbal support and the outer gimbal for determining the magnitude of the last mentioned tilt displacement.

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**2,649,810**
**REVERSING MECHANISM**
**Joseph J. Pukt, Randolph, Mass., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania**
**Application February 23, 1951, Serial No. 212,282**
**3 Claims. (Cl. 74—27)**

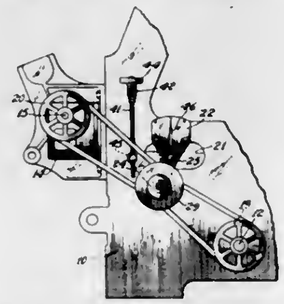


1. In a reversing mechanism control for a machine having a reciprocating carriage with a clutch control lever and a reversing control lever for the carriage, the combination of a clutch-actuating cam mounted on the carriage and movable therewith, a cam follower mounted on the clutch control lever and engageable with said cam to move said clutch control lever to a clutch disengaging position, means for pivoting said cam follower to said clutch control lever for movement to a position out of engagement with said clutch-actuating cam, a hand lever attached to said cam follower for manually pivoting said cam follower, stop-engaging means on said reversing control lever lying along the path of movement of said carriage, and a stop mounted on said carriage and movable with said carriage in a path intersecting said stop-engaging means and so positioned with respect to said clutch-actuating cam as to engage said stop-engaging means on said reversing control lever to move the same to a reversing position subsequent to movement of said clutch control lever to a clutch-disengaging position.



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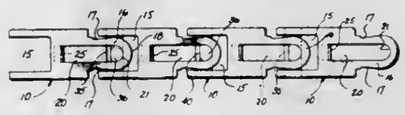
**2,649,811**
**VARIABLE-SPEED DRIVE FOR FABRIC TAKE-UP ROLL OF WARP KNITTING MACHINES**
**Harold C. Noe, Upper Montclair, N. J., assignor to Kidde Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware**
**Application February 2, 1951, Serial No. 209,018**
**2 Claims. (Cl. 74—230.17)**



1. In a warp knitting machine including a drive shaft operated at a constant speed, a fabric take-up roll and a speed reducer having an input shaft and having an output shaft in driving connection with the take-up roll: the combination of a drive pulley on the drive shaft, a driven pulley on the input shaft, a stud shaft between said pulleys, a support for said stud shaft, means for pivotally mounting said support to vary the position of said stud shaft with respect to said pulleys, said support having a pointer thereon extending radially outwardly from said means pivotally mounting said support, a pair of outer connected spaced apart flanges mounted for rotative and longitudinal movement on said stud shaft, said outer flanges having inner opposed annular conical surfaces, a central flange positioned between said outer flanges and mounted for rotation therewith and for lateral movement therebetween, said central flange having an annular conical surface at each side thereof each respectively facing a surface of one of said outer flanges to provide in effect a pair of V-belt receiving variable speed pulley assemblies, a V-belt drivingly connecting said drive pulley and one of said pulley assemblies, a second V-belt drivingly connecting said other pulley assembly and said driven pulley, and fixed indicia adjacent the outer end of said pointer for cooperation therewith to indicate the position in which said support is adjusted.

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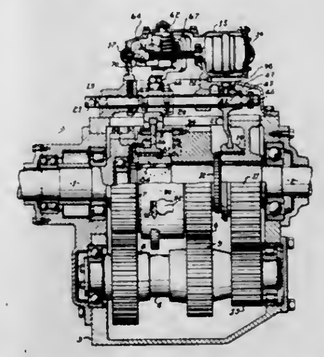
**2,649,812**
**CONVEYER CHAIN**
**Howard W. Wylie, Seattle, Wash.**
**Application April 2, 1951, Serial No. 218,869**
**5 Claims. (Cl. 74—246)**



1. A conveyor chain comprising a plurality of links, and pivot pins joining said links end to end for universal pivotal action; each of said links comprising spaced, parallel opposite side plates, joined at one end of the link by a semi-cylindrically curved end wall, and terminating at their other ends in tongue portions that are rounded at their ends and have opposite side edges converged toward the base of the tongues, each link also being formed with a recess extended thereinto through its closed end and adapted to freely contain the tongue portions of the adjoining link therein with clearance for universal action, and said side plates being formed along the longitudinal center of the link with coextensive slots terminating in the outer ends of the tongues in semi-circular seats concentric of the tongue ends; each of said pivot pins having a diameter substantially equal to the distance between said side plates, and said pins being disposed between the plates with opposite end portions thereof pivotally engaged against the curved end wall of the link, and having pivot studs formed thereon between its ends, in alignment and at right angles thereto, engaged pivotally in the end seats of the plate slots of the adjoining link.

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**2,649,813**
**POWER AND MANUALLY OPERATED GEAR SHIFT**
**Elmer J. Barth and Paul J. Smith, Toledo, Ohio, assignors to Dana Corporation, Toledo, Ohio, a corporation of Virginia**
**Application July 19, 1949, Serial No. 105,472**
**8 Claims. (Cl. 74—335)**

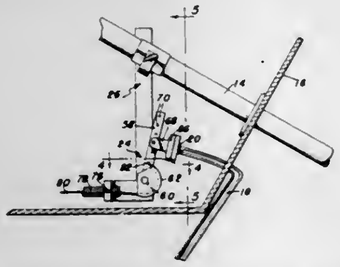


1. In a transmission gearing, input and output shafts, trains of gears between the shafts, each train comprising an element shiftable into and

out of operative motion transmitting position, said elements being alternately operable relatively to each other into and out of operative position, power mechanism including a reversible motor for shifting one only of said elements in reverse directions, a power system for the motor, a second mechanism for shifting the other element only comprising a shift member, power controls in the power system including cut-out and reversing power control members operated successively by the reversible motor when at the beginning and at the end of the shifting operations of the motor and including also an interlock between said mechanisms and operable thereby to maintain the operation of the shiftable elements by the two shift mechanisms in alternate relation.

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**2,649,814**
**REMOTE-CONTROL PEDAL OPERATING DEVICE**
**Thomas P. Brazell, St. Louis, Mo.**
**Application June 16, 1950, Serial No. 168,403**
**3 Claims. (Cl. 74—481)**

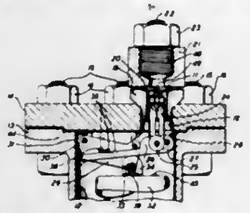


1. A remote control pedal operating device comprising a generally L-shaped bracket, the bracket being positionable with one leg vertical and the other leg horizontal, said horizontal leg having pivotally mounted thereon a lever arm, a pedal engageable foot pivotally mounted on said lever arm, a sectional plate secured to said lever arm and rotatably journaled on said horizontal leg, a flexible conduit extending from said mounting bracket and secured at its other end to a movable housing, a flexible cable entrained around said sectional plate and having one end secured to said lever arm, operating means carried by said housing secured to the other end of said flexible cable for moving same in order to pivot said lever arm and depress said pedal.

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**2,649,815**
**LEVER SYSTEM FOR STEAM TRAPS**
**James W. Kaye, Montclair, N. J., assignor to Kaye & MacDonald, Inc., West Orange, N. J., a corporation of New Jersey**
**Application December 12, 1947, Serial No. 791,295**
**2 Claims. (Cl. 74—516)**

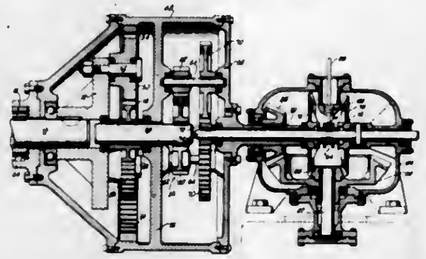
1. A motion transmitting lever system for a steam trap adapted to move a first member in response to the movement of a second member comprising a first lever pivoted around a stationary pivot near one end thereof and having a substantially straight free end portion extending from the other end of said lever at least half the length thereof toward the pivot, said first lever being connected to the first member at a point in the lever between the pivot and said other end but much nearer the pivot than said other end, and a second lever pivotally supported near one end and pivotally connected to the second member near its other end, said second lever carrying a pin intermediate the pivots therein which engages the free end portion of the first lever when the second member is moved in a certain direction, the two levers being positioned so that the contact point between said pin and first lever moves farther away from the pivot point of said first lever as the first member is moved in said



certain direction thus increasing the mechanical advantage of the lever system formed by the said levers, said second lever comprising a channel shaped member having two sides and a narrow rib between them at the end of the second lever connected to the second member and carrying said pin between the sides thereof to engage the top of the free end portion of said first lever as it passes through the second lever between the sides thereof when the second member moves in said certain direction.

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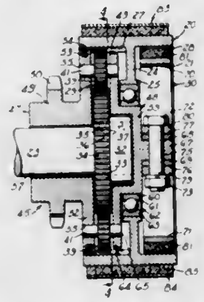
**2,649,816**
**TRANSMISSION AND REACTION TORQUE DEVICE**
**Otto Richard Kuster, Brooklyn, and Robert C. Ried, Carle Place, N. Y., assignors to Knowles Associates, New York, N. Y., a partnership**
**Application March 31, 1949, Serial No. 84,516**
**1 Claim. (Cl. 74—705)**



A dual-speed drive for maintaining two operating parts respectively at different high rotational speeds against a reaction torque between them, one of said operating parts being independently driven and the other of said operating parts being driven by said one part through said dual-speed drive, said dual-speed drive comprising a planetary gear system including sun, planetary and annular gears and in which the annular gear is connected to the higher speed operating part, the planetary gear is connected to the lower speed operating part and a mechanical connection interconnects said sun gear and annular gear independently of said planetary system, said mechanical connection including a gear train having a reversing mechanism and a manually operated member for actuating said reversing mechanism to reverse the direction of the torque transmitted by said gear train.



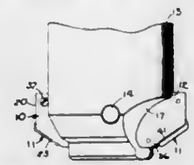
**2,649,817**
**TRANSMISSION**
**Edward C. La Voque, Hawthorne, Calif., assignor of one-half to Walter E. Chisholm, Van Nuys, Calif.**
**Application May 26, 1949, Serial No. 95,545**
**3 Claims. (Cl. 74—785)**



1. In a transmission adapted to be mounted upon the drive shaft of a power plant, the combination of: a housing mounted upon the end of said drive shaft, said housing having an annular internal partition formed therein separating said housing's interior into a gear casing and a clutch drum; a sun gear secured to said end of said drive shaft and disposed within said gear casing; at least one planetary gear positioned within said gear casing in operative engagement with said sun gear; a ring gear secured within said gear casing and engaged by said planetary gear; driven means positioned partially within said gear casing and partially within said clutch drum; clutch means secured to that portion of said driven means disposed within said clutch drum and adapted to be urged into engagement with the interior of said drum; and controlling means positioned externally of said housing and in operative engagement therewith, adapted to prevent the rotation of said housing in one direction and to permit its rotation in the other direction.

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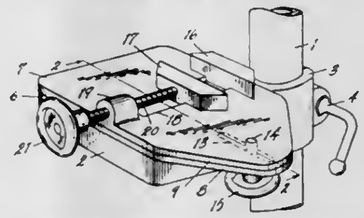
**2,649,818**
**METAL CUTTING TOOL**
**Erwin J. Kaiser, Fond du Lac, Wis., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis., a corporation of Wisconsin**
**Application May 10, 1950, Serial No. 161,058**
**8 Claims. (Cl. 77—58)**



1. In a metal cutting tool, in combination, a generally rectangular block formed at one end with a diagonally disposed recess increasing progressively in depth from said one end of the block, said block having a cutter blade receiving slot opening in the end face of the block and in the bottom wall of said recess, a cutter blade adjustably mounted in said slot to present three angularly disposed cutting faces in spaced relation to the end of the tool, said slot having its axis disposed at acute angles both to the axis of said block and to the top face of the block so that outward movement of the cutter blade along said slot is effective to provide grinding stock on each of said three cutting faces, and a clamping plate removably secured in said recess for retaining said blade in adjusted positions.

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**2,649,819**
**WORK SUPPORT AND CLAMP FOR DRILL PRESS TABLES**
**Richard L. Hussey, Vicksburg, Mich., assignor to Lee Paper Company, Vicksburg, Mich.**
**Application February 3, 1951, Serial No. 209,275**
**7 Claims. (Cl. 77—63)**



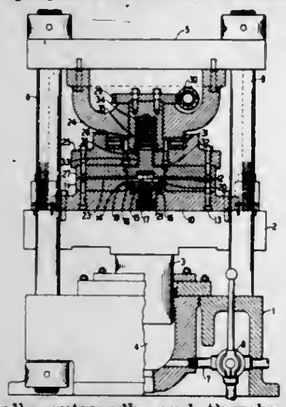
1. An adjustable work support for a drill press table comprising upper and lower plates having flat sliding engagement, said plates having body portions approximating the size of a drill press table and outwardly tapering projections on one side thereof, said plates and projections having their peripheries shaped to the same contour and size, a threaded stud depending from the body portion of said lower plate to extend through an aperture in a drill press table, a hand nut and washer engageable with said stud to clamp said lower plate to the table, the side projection of said lower plate defining a laterally extending slot, a second threaded stud depending from the projection on said upper plate and extending through said slot, a second hand nut engageable with said second stud to releasably clamp said plates together, and work clamping means including fixed and movable jaws mounted on the top of said upper plate.

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**2,649,820**
**APPARATUS FOR PRODUCING TAPERED METAL DISKS**
**J Harold Hunt, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan**
**Application November 25, 1947, Serial No. 788,054**
**4 Claims. (Cl. 78—17)**

1. In an apparatus for tapering a metal disk, a pair of platens, the one platen being adapted to support the disk to be tapered, means for holding said disk against rotation upon said last mentioned platen, the other platen having a tapered face adapted to press against said disk to be tapered, said tapered face being tapered from its center axially toward the face of said other platen, the face of one of said platens having at least one spiral projection emanating from substantially the center of said platen, and said spiral having its center concentric with the center of the disk, means for pressing said platens together, means for rotatably supporting one of said platens on an axis substantially perpendicular to said platen faces, and means for rotating said one platen relative to the other while said platens are pressed together whereby as the metal disk is pressed between the said platens and

the one platen is rotated relative to the other, the spiral projection will flow the metal of said



disk radially outwardly and thereby taper the same.

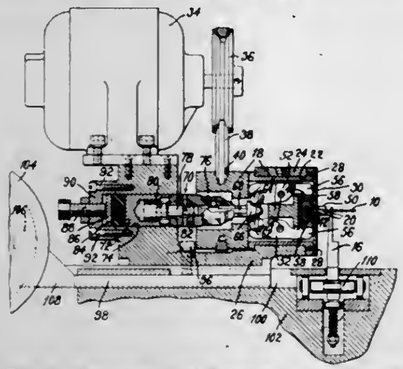
2,649,821

## POINT FORMING MECHANISM

**Herbert A. Corbett, Auburn, N. Y., assignor, by mesne assignments, to Auburn Fishhook Company, Inc., Auburn, N. Y., a corporation of New York**

**Application October 20, 1949, Serial No. 122,528**

**2 Claims. (Cl. 78—23)**



1. Point forming mechanism comprising a frame, means upon the frame for supporting a blank to be operated upon, a slide mounted upon the frame for movement toward and away from the supporting means, an air hammer carried by the slide, a head mounted for rotation in the slide, a pair of dies slidably mounted in the head, the dies having cooperating tapered blank engaging grooves, a pair of fingers pivoted upon the head and located upon opposite sides of the dies in position to grip the same, means operatively connecting the fingers with the hammer for actuating the fingers, means for rotating the head, and means for reciprocating the slide.

2,649,822

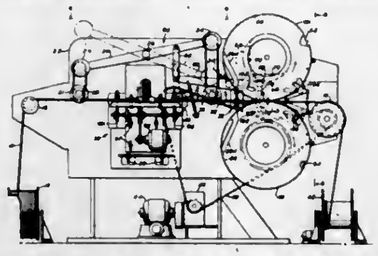
## APPARATUS FOR PROCESSING CORDAGE

**Julius H. Penn, Dunmore, Pa., and Paul R. Powell, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**

**Application February 21, 1949, Serial No. 77,546**

**16 Claims. (Cl. 81—9.51)**

13. Apparatus for removing equally spaced portions of the covering from continuous lengths of jacketed cordage, which comprises means for continuously advancing a length of such cordage from a supply thereof along a predetermined path, a plurality of cutting blades mounted at spaced positions along and transverse to said path, means operable in timed relationship with respect to the cordage-advancing means for temporarily stopping at periodic intervals the longitudinal movement of the portion of the cordage adjacent to the cutting blades, means for simultaneously pressing the stopped portion of the cordage against the spaced blades, means for turning the stopped portion of the cordage about



its longitudinal axis while the cordage engages the blades so that the covering is ring cut at spaced points, movable means positioned adjacent to a subsequent point in said path where the cordage is continuously advancing for slitting the covering of the cordage longitudinally on opposite sides thereof, means for periodically moving the slitting means into engagement with a portion of the cordage between the ring cuts made by the blades to slit the covering therebetween, and means subsequently engaged by the advancing cordage for removing the slitted portions of the covering from the cordage.

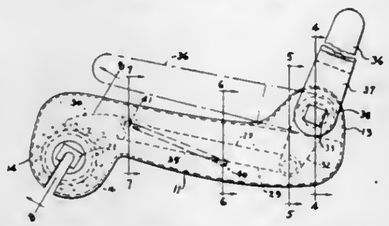
2,649,823

## RATCHET OPERATED SOCKET WRENCH

**William John Markovich, Detroit, Mich.**

**Application November 4, 1950, Serial No. 194,087**

**1 Claim. (Cl. 81—61)**



In a socket wrench, a hollow elongated body with opposed circular apertures through its walls at its opposite ends, a ratchet within one end of said body and having a socket driving axle journaled through one pair of apertures in the opposite side walls of said body, a manually pivotal lever entirely within the opposite end of said body and having a trunnion at one end journaled through the second pair of apertures in the opposite side walls of said body, a longitudinally reciprocal arm within said body pivotally joined at one end to the other end of said lever, the opposite end of said arm having longitudinally extending teeth in operative driving engagement with said ratchet, a coiled spring joined at one end to said arm adjacent said teeth and with its other end anchored to the interior of said body for maintaining said teeth in engagement with said ratchet, one end of said trunnion extending outwardly beyond the wall of said body, a second lever joined at one end to said trunnion for effecting rotary movements of said first lever, said body adjacent said ratchet having a radial slot to transversely receive a conduit, said ratchet also having a radial slot registerable with said body slot, and a socket removably joined to said axle for rotation therewith, said socket having a longitudinally extending radial slot throughout its length registerable with the aforementioned slots.



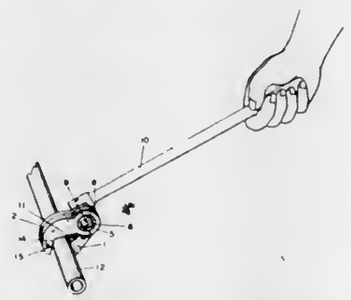
2,649,824

## WRENCH HEAD WITH COAXIAL JAW PIVOT AND HANDLE CONNECTION

**Willard A. Maxwell, Portland, Oreg.**

**Application September 16, 1949, Serial No. 116,140**

**12 Claims. (Cl. 81—99)**



1. An open end wrench comprising, in combination with a handle, an elongated jaw having at its inner end coaxial hubs extending transversely of the jaw, and a second elongated jaw having its inner end slotted longitudinally of the jaw to form spaced annular bearings mounted pivotally on said hubs, said handle being connected detachably to and coaxially with the hubs for actuating the jaws.

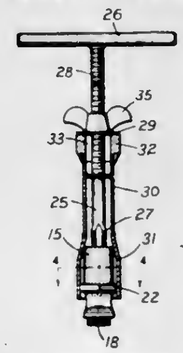
2,649,825

## WRENCH AND TAP DEVICE

**Ernest F. Fisher, Dayton, Ohio**

**Application May 1, 1950, Serial No. 159,216**

**7 Claims. (Cl. 81—125)**



1. A tool of the class described comprising, a shaft having an engagement means at one end and a handle at the other end, said engagement means including a thread-cutting member to interiorly engage an underground hydrant valve assembly, a tubular body substantially encasing said shaft, a polygonal cap at one end of said tubular body having an opening slidably accommodating said shaft, said tubular body having a polygonal-socket at its other end for laterally engaging an underground hydrant valve assembly.

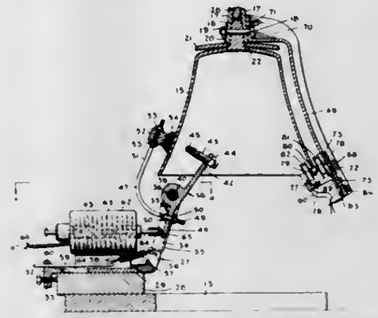
2,649,826

## ELECTRICALLY OPERATED CARILLON

**Harmannus T. van Bergen, Greenwood, S. C.**

**Application May 22, 1951, Serial No. 227,664**

**3 Claims. (Cl. 84—1.15)**



1. In a carillon, a bell having a relatively thin vibratory sidewall and including a top, the bottom of the bell being open, a relatively thick substantially non-vibratory lug secured to the top of the bell, suspension means connected with the lug and supporting the bell, a substantially rigid support arm secured to the lug and extending near the sidewall of the bell exteriorally thereof, a substantially U-shaped magnet bodily mounted upon the support arm near the bottom of the bell and having opposed pole pieces, the vibratory sidewall of the bell extending between the pole pieces in close proximity thereto, pick-up coils wound about the pole pieces of the magnet, and striker means for the bell.

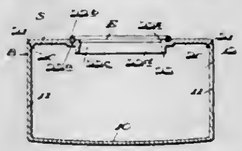
2,649,827

## SOUNDING BOARD FOR STRINGED MUSICAL INSTRUMENTS

**Mario Maccaferri, Rye, N. Y., assignor to French American Reeds Manufacturing Co., Inc., New York, N. Y., a corporation of New York**

**Original application March 15, 1950, Serial No. 149,741, now Patent No. 2,597,154, dated May 20, 1952. Divided and this application January 3, 1952, Serial No. 264,715**

**2 Claims. (Cl. 84—291)**



1. As a new article of manufacture, a hollow resonant plastic body for a stringed musical instrument; said body being comprised of relatively thin plastic end, side and bottom walls molded to form an integral, continuous and unbroken wall structure open at its top side; a relatively thin plastic sounding board cemented directly to said wall structure in position over and closing the open top side thereof to form with said wall structure a hollow, substantially one-piece resonant body; said sounding board having a circular sound opening therethrough;

an annular flange of plastic molded as an integral component of said sounding board and being extended inwardly into the space within the body from the inner side of said sounding board in position thereon surrounding the said sound opening; said annular flange having a depth to extend a distance into the space within said body from the inner side of said sounding board not to exceed one-half (½) the distance between said sounding board and said bottom wall but at least equal to approximately one-fifth (⅕) of the latter distance; and said annular flange being adapted to form a passage of circular cross section extending therethrough from and in axial continuation of said sound opening to and opening at the inner end edge of said flange into the space within said thin walled hollow resonant plastic body.

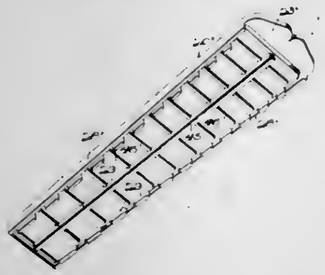
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**2,649,828**

## FRETTED FINGER BOARD FOR STRINGED MUSICAL INSTRUMENTS AND METHOD OF MAKING THE SAME

**Mario Maccaferri, Rye, N. Y.**

**Application July 3, 1950, Serial No. 179,111**
**12 Claims. (Cl. 84—314)**



1. A fretted finger board for stringed musical instruments comprising, a body member of molded plastic material, said body member being formed with a series of transversely disposed spaced rows of holes therethrough, frets of plastic material positioned on said body member along said rows of holes, respectively, and sprues of the plastic material of each fret being extended into the row of holes in said body member for such fret to bond the fret to the body member.

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**2,649,829**

## BASS CLARINET

**Hugh W. Loney, Elkhart, Ind., assignor to C. G. Conn Ltd., Elkhart, Ind., a corporation of Indiana**

**Application July 28, 1951, Serial No. 239,157**
**5 Claims. (Cl. 84—382)**

1. In a bass clarinet including a lower branch having thereon a finger spatula terminating in a cam end adjacent to the lower end of the branch and a bell formed to fit on the lower end of the branch and having a key thereon terminating in an operating finger to engage the cam end when the bell is fitted on the branch, the improvement which comprises an extra spatula on the branch terminating in a second cam end adjacent to the lower end of the branch, an extra joint formed to fit between the lower end of the branch and the bell, a key on the extra joint terminating in an operating finger to engage the first named cam end whereby the key will be operated by the first named spatula, and a shaft on the extra joint terminating at one end in an operating finger to engage the second cam end



and at its other end in a cam to engage the first named operating finger.

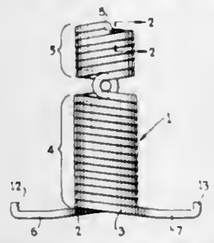
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**2,649,830**

## EXPANDING SPRING ANCHOR NUT

**John William Arnold, Newark, N. J., assignor to The Elwood Research Company, a division of Chiselhurst, Inc., Newark, N. J., a corporation of New Jersey**

**Application July 20, 1950, Serial No. 174,883**
**5 Claims. (Cl. 85—2.4)**



1. An expansion fastener cooperative with screws and bolts comprising a heterophase wire coil with at least two integral helical winding phases spaced axially of each other and connected to each other at their adjacent ends, one of said winding phases being wound in a clockwise direction and another winding phase being wound in counterclockwise direction, one of said winding phases having an internal surface engageable with the threaded portion of said screws and bolts for helical advancement of said screws and bolts therethrough, said other winding phase having an inside diameter sufficiently large to allow free access of bolts and screws therethrough, an end portion of said other winding extending laterally outward forming an anchor means therefor.

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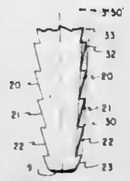
**2,649,831**

## SHEET METAL SELF-LOCKING NAIL

**Edgar P. Anstett, Chicago, Ill.**

**Application June 2, 1950, Serial No. 165,847**
**1 Claim. (Cl. 85—21)**

A nail comprising a shank of substantially uniform rectangular cross section and tapering at a small taper to a reduced cross section at its forward end and terminating in a rounded forward edge whereby as the nail is advanced in a body of wood the forward edge rounded to merge with the tapered sides of the nail pushes the wood fibers in the direction of advancement of



the nail, notches formed in the tapering sides at the forward end of the nail, and notches formed in the same sides of the uniform shank portion of the nail.

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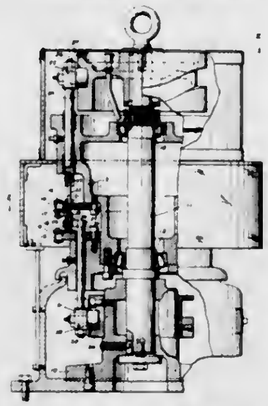


**2,649,832**

## AMMUNITION ASSEMBLING MACHINE

**Warren S. Reynolds, Westport, Conn., and John R. Turner, Glen Mills, Pa., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**

**Application June 19, 1951, Serial No. 232,356**
**7 Claims. (Cl. 86—43)**



1. In a machine for the insertion of a first workpiece into a second cupped workpiece, the combination comprising a separate chain conveyor for each class of workpieces, each conveyor including a plurality of similarly spaced individual workpiece embracing receptacles; a fixed base; a continuously revolving turret mounted on said fixed base, said turret being engaged by and rotatable with said chain conveyors, said conveyors being spaced on said turret in a direction parallel to the axis thereof and so wrapping upon portions of the periphery of said turret having a common diameter as to successively dispose receptacles on one conveyor substantially in axial alignment with receptacles on said second conveyor; a plurality of punches reciprocably mounted on said revolving turret, there being one such punch in alignment with each of said pairs of aligned receptacles; and punch operating means comprising a single cam fixed to said base; and cam followers mounted on said turret and riding on said cam, said followers being coupled to said punches to successively reciprocate said punches through the receptacles carrying said first workpieces to transfer first workpieces into second workpieces.

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**2,649,833**

## MANUFACTURE OF LINES FOR RACQUETS

**Julian T. Crandall, Ashaway, R. I., assignor to Ashaway Line & Twine Mfg. Co., a corporation of Rhode Island**

**Application April 14, 1949, Serial No. 87,382**
**8 Claims. (Cl. 87—1)**



1. The method for manufacturing lines made wholly of plastic, comprising the steps of twisting plastic filaments under tension to provide a center core, braiding a cover of plastic filaments around the core, tensioning the cover and the core and treating the cover and core with plastic solution while under tension to integrate the cover and core together and to form a smooth outer surface.

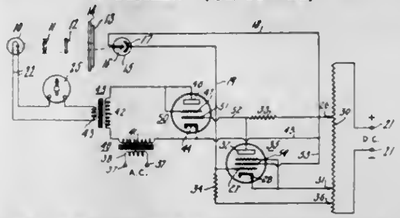
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**2,649,834**

## OPTICAL FEED-BACK DENSITOMETER

**Monroe Hamilton Sweet, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware**

**Application April 4, 1946, Serial No. 659,457**
**3 Claims. (Cl. 88—14)**



2. An electrical measuring apparatus for directly indicating the photographic density of translucent sample materials, comprising a photoelectric tube, a source of operating potentials therefore, an exciter lamp arranged to illuminate said tube through samples which may be placed between said lamp and said tube, said lamp being of the filamentary incandescent type having such characteristics that the light intensity emitted therefrom bears a logarithmic relation to the electrical current supplied to the filament, a circuit for supplying current to said filament, electronic means of variable conductivity in said circuit for varying the magnitude of said filament current, electronic control means connected between said phototube and said filament current varying means operable to alter the conductivity thereof in inverse relation to the phototube current which is directly related to the light reaching said phototube upon a sample being placed between said lamp and said phototube whereby the light intensity of said lamp is varied in inverse relation to the density of said sample, and a current flow measuring means in said filament circuit the indication of which may be marked directly in linearly spaced density values.

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**2,649,835**

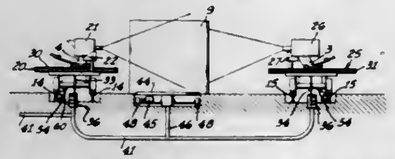
## AUTOMATIC CONTROL OF THE MOVEMENT OF PICTUREMAKING EQUIPMENT

**John T. Lierley, Los Angeles, Calif.**

**Application September 15, 1949, Serial No. 115,844**
**10 Claims. (Cl. 88—16)**

1. A system for rapidly and accurately stopping a camera and a projector, each of which

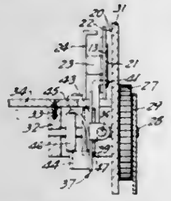
is moved on tracks by an electrical motor between predetermined positions on opposite sides of a plurality of sets to be photographed, comprising tracks for said camera and said projector, means for energizing the electrical moving motor for said camera and the electrical moving motor for said projector, a motor energizing circuit for said camera moving motor and for said projector



moving motor, each circuit including a manual contact switch and a traveling contact switch, a control track for said traveling switches, and means for adjusting said track at predetermined points to actuate said traveling switches and open said circuits at said respective points to stop said camera at a certain point with respect to the stopping point of said projector.

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**2,649,836**
**MOTION-PICTURE MACHINE AND FILM FEEDING MECHANISM**
**Roy A. Clapp, Minneapolis, Minn.**
**Application December 14, 1950, Serial No. 200,799**
**3 Claims. (Cl. 88—18.4)**

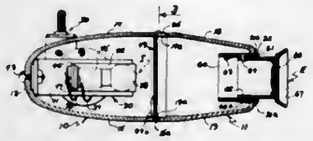


1. An intermittent film feeding shuttle mechanism for motion picture camera and the like comprising a shuttle body, a film engaging element for intermittent engagement with the perforations of a film strip and fixed to said shuttle body, support means for said body to permit oscillation as well as reciprocation thereof, a single cam-shaft adapted to be driven, a pair of radial cams fixed to said shaft, a pair of spaced parallel reciprocating cam following elements fixed to said shuttle body and having one of said cams interposed therebetween to impart reciprocating movement to said shuttle, a second pair of spaced cam following elements transversely offset from said first mentioned cam follower elements and having the other cam interposed therebetween and being elongated to ride along said last mentioned cam as said body is reciprocated, the cam following surfaces of said second pair of followers being disposed substantially normal to the planes of said first mentioned cam following elements, one of said second mentioned elements being resilient.

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**2,649,837**
**STEREOSCOPIC VIEWER**
**Jesse C. Wiese, San Pedro, Calif.**
**Application July 3, 1951, Serial No. 235,067**
**4 Claims. (Cl. 88—29)**

1. In a stereoscopic viewer, the combination of: a housing having an opening formed therein in which a stereoscopic film holder may be inserted for viewing purposes, two laterally spaced eye pieces mounted in one end of said housing, a light diffusion plate mounted in said housing and disposed on the side of said opening opposite to that side of the housing in which said eye pieces are



mounted, a fluorescent coating mounted on one side of said plate, and domestic power actuated means that excite said coating to emit a uniform blanket of light against which the films in said holder may be viewed.

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**2,649,838**
**TELESCOPING MAGNIFYING LENS AND HANDLE**
**Richard S. Krause and Ernest H. Seibert, Chicago, Ill., assignors to Autopoint Company, Chicago, Ill., a corporation of Illinois**
**Application May 11, 1949, Serial No. 92,674**
**1 Claim. (Cl. 88—39)**

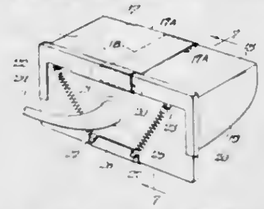


A magnifying device comprising an elongated magnifying lens provided along the upper marginal longitudinal edges with upwardly facing tracks and along the lower marginal edges with depending tracks extending below the lower face of said lens, and an elongated hollow handle providing a chamber open at one end for the reception of said lens therein, said chamber being provided with laterally disposed downwardly facing shoulders adapted to cooperate with said upwardly facing tracks in preventing contact between the upper face of said lens and the upper wall of said chamber, and the base of said chamber being shaped to form a pair of upwardly extending spaced ribs providing a central channel and a pair of lateral channels adapted to receive said depending tracks of the lens, the height of said ribs being less than the depth of said tracks so that contact of the lower faces of said tracks with the bottoms of said lateral channels prevents contact between the lower face of said lens and the bottom of said chamber, a spring-pressed detent consisting of a cup-shaped member and a coiled spring disposed in a recess in the lens adjacent the inner end thereof, said cup-shaped member extending into said central channel for frictionally holding the lens against unintentional shifting in the handle, and an abutment projecting upwardly at the outer end of said central channel in the path of said detent whereby complete withdrawal of said lens from said chamber is prevented by engagement of said detent with said abutment.

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**2,649,839**
**PROTECTIVE VISOR FOR MIRRORS**
**James W. Condon, The Dalles, Oreg.**
**Application October 24, 1950, Serial No. 191,781**
**1 Claim. (Cl. 88—77)**

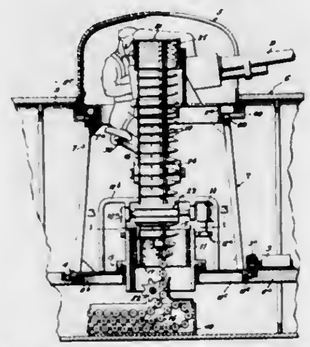
A protective visor attachment for a mirror mounted within a vertically disposed housing having top, side and bottom edges, said visor attachment comprising in combination two telescopic sections of channel formation in cross section adapted to engage the top and side edges of the mirror housing, each section having a horizontal top portion and a downwardly extending end wall, a clip adapted for removable at-



tachment to the bottom edge of said mirror housing, a pair of diverged tension springs interconnecting the ends of said clip and the corner portions of said telescopic sections whereby said sections will be urged downwardly and inwardly into locked engagement with the housing.

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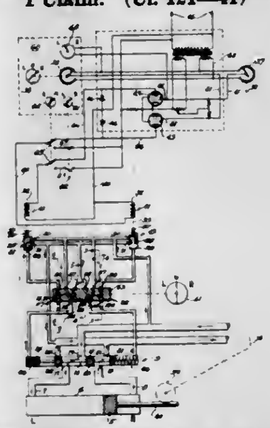
**2,649,840**
**BELT FEED FOR AIRCRAFT GUNS**
**Donald W. Davidson, Jr., Sutter, Calif.**
**Application March 17, 1950, Serial No. 150,324**
**1 Claim. (Cl. 89—33)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**



In an ammunition feed mechanism for an automatic universally mounted gun using a cartridge belt having clips connected for relative swiveling about an axis normal to the longitudinal axis of the cartridges contained therein, a support, a platform mounted on said support for training about a normally vertically first axis, a gun mount fixed on said platform including trunnion bearings, a gun journaled in said bearings for pivotal movement in elevation, a cylindrical drum journaled in said platform for pivotal movement about its axis of symmetry parallel to and offset from said first axis, a brush fixed to and extending completely about the inner surface of said drum and comprising radially inwardly projecting resilient fingers, power means operable to continuously rotate said drum about its axis of symmetry relatively to said platform, a magazine fixed on said support below said platform, feed means operable in synchronism with the gun to draw a cartridge belt from said magazine upwardly through said drum into said gun, and a guide bar fixed with said platform and extending within said drum parallel with the axis thereof and substantially in the surface of revolution defined by the tips of said fingers, said guide bar engaging the base of each cartridge as it is drawn upwardly through said drum and swiveled by frictional contact with the rotating fingers of said brush, to stop each cartridge in predetermined angular loading position relatively to said platform, whereby said cartridges move in translation only from said drum into said gun in proper feeding position.

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**2,649,841**
**HYDRAULIC PISTON POSITIONING SYSTEM**
**Stanley A. Jacques, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois**
**Application February 15, 1951, Serial No. 211,039**
**1 Claim. (Cl. 121—41)**



A system for positioning, in correspondence with the position of a movable control member, the output element of a hydraulic power unit that is operable in opposite directions respectively by reversely supplying pressure fluid to one and exhausting the other of a pair of fluid inputs of said unit; said system comprising a transfer valve having a body movable from a position blocking supply to both said inputs in opposite directions to different active positions wherein respectively it is effective to exhaust and supply the different said inputs in reversed senses, spring means resiliently biasing said valve body to its neutral position, expansible chamber means having a pair of inputs and arranged to move said valve body in said opposite directions respectively by exhausting and supplying pressure fluid to the different ones of said operator means inputs in reversed senses, a pair of three-way valves each having a controlled port connected with one of said operator means inputs, a supply port, an exhaust port and a valve body movable between two positions respectively effective to connect said supply and exhaust ports with said controlled port, spring means biasing each said three-way valve body to a selected one of its said positions, a pair of solenoids each having an armature connected with a different one of said three-way valve bodies and electrically energizable to move said body to which it is connected to its second position, an electrical device having a pair of output circuits each connected to energize a different one of said solenoids, said electrical device having a signal input circuit and being responsive to sense of a signal applied to the latter circuit to energize a corresponding one of said output circuits, a signal system including a transmitter device actuable by said control member and a repeater device actuable by said output element, said signal system being arranged and connected with

said signal input circuit to apply thereto a signal corresponding in sense to sense of variance of said member and element from positional correspondence and to energize one of said solenoids to move the one of said three-way valve bodies that actuates said transfer valve body in a direction to supply and exhaust said power unit inputs in a sense to move said output element toward positional correspondence with said control element, and a selector valve having a valve body movable from a position wherein it connects said operator means inputs with said three-way valve controlled ports in opposite directions respectively to second and third positions in both of which it blocks communication between said three-way valve controlled ports and operator means inputs, and in the different ones of which respectively it connects said operator means inputs in reversed senses with fluid supply and exhaust lines.

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**2,649,842**

## FLUID PRESSURE MOTOR COMPRISING RELATIVELY EXTENSIBLE AND CONTRACTIBLE PISTON AND CYLINDER ELEMENTS

**Harry Balshaw Caldwell, Penketh, Warrington, and Kenneth George Hancock, Great Sankey, near Warrington, England, assignors to Electro-Hydraulics Limited, Warrington, England, a company of Great Britain**

**Application August 9, 1948, Serial No. 43,306**
**In Great Britain May 16, 1947**
**3 Claims. (Cl. 121—44)**



1. In a fluid pressure motor, a cylinder; a first piston reciprocable therein; a piston rod fast with said first piston and extending through one end of said cylinder; a cylinder part at the opposite end of said cylinder of smaller diameter than the cylinder part in which said first piston is reciprocable; a second piston reciprocable in said smaller diameter cylinder part; abutments for limiting the reciprocation of said second piston relative to said cylinder; an apertured partition on said cylinder between said first and second pistons, the diameter of said cylinder between said partition and said second piston being greater than the diameter of said cylinder between said partition and said first piston; a first floating piston reciprocable in said cylinder between said partition and said first piston; a second floating piston reciprocable in said cylinder between said partition and said second piston; and means for admitting pressure fluid to and discharging it from the spaces respectively between said first piston and the adjacent end of the cylinder, between said first piston and said first floating piston, between said first floating piston and said partition, and between said second piston and said second floating piston.

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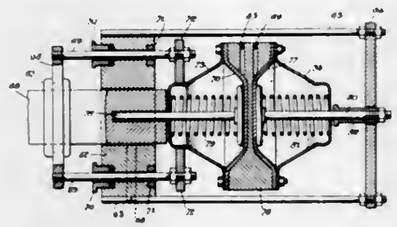
**2,649,843**

## DOUBLE DIAPHRAGM UNIT

**John H. Province, Oklahoma City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware**

**Application August 14, 1947, Serial No. 768,566**
**5 Claims. (Cl. 121—48)**

1. A combination as disclosed comprising a work object shiftable to either of two positions, a fixed support, said work object and said support being held in such relation as to maintain said work object in either of said two positions an abutment member fixedly mounted in spaced relation to said support, a motor body lying between said support and member, means connecting said motor body with said work object, a pair of flexible diaphragms attached to opposite sides of said body and forming expansible chambers, and a pair of spring biased rods bearing on said diaphragms, said rods slidably engaging said support and member whereby pressure fluid supplied to one chamber shifts said body and work object to one position of the latter and pressure fluid thereafter supplied to the other chamber shifts said body and work object back to the initial position of the latter, and the motor assumes neutral position with respect to its associated operating parts when fluid pressure is exhausted from the pressurized chamber in either position of said body while said work object remains in either of the positions to which it is shifted.



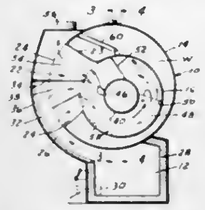
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**2,649,844**

## HORIZONTAL FLUE BOILER WITH BAFFLE STRUCTURE IN FLUE

**George H. Brace, New London, Conn.**

**Application May 1, 1952, Serial No. 285,473**
**5 Claims. (Cl. 122—134)**



1. A boiler construction comprising a generally cylindrical outer shell, a pair of end plates closing the ends of said outer shell, a firebox supporting said outer shell in a substantially horizontal position, means defining a gas flue extending from said firebox upwardly along the side of said outer shell, a generally cylindrical inner shell extending substantially horizontally between said end plates in spaced relationship within said outer shell to define a water chamber therebetween, means defining a water tight gas duct between the interior of said inner shell and said flue, a tube extending substantially horizontally between said end plates in spaced relationship within said inner shell, and baffle means extending completely across said flue and through said duct to said tube to separate said duct into a gas inlet passageway on the side of said baffle means adjacent the firebox and a gas outlet passageway on the opposite side of said baffle means whereby flue gases are directed into said inner shell and around said tube and returned to said flue.

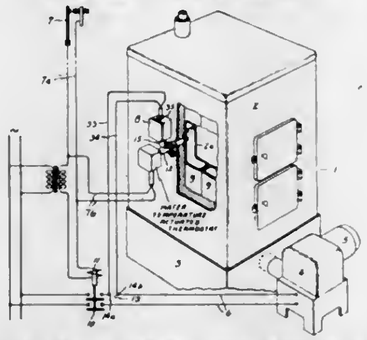


**2,649,845**

## BOILER WITH FUSIBLE METAL ACTUATED CONTROL SWITCH

**Arthur Cohen, Brooklyn, and Patrick S. Foster, Astoria, N. Y.**

**Application April 19, 1951, Serial No. 221,843**
**3 Claims. (Cl. 122—504.3)**



1. In a heating system comprising in combination a boiler having a water wall, a heat source, an electrical circuit for regulating the energization of said heat source, and a control responsive to a predetermined boiler wall temperature to interrupt said electrical circuit and shut off said heat source, said control comprising a mercury switch, a heat conducting support bar, means mounting one portion of said support bar in thermal contact with the boiler wall, means mounting said switch on another portion of said bar for rotation of said switch to an open or closed circuit position, means including the weight of said mercury switch biasing the same normally to a circuit-open position, a fusible plug, and means mounting said plug in thermal contact with said bar beneath said switch to tilt and position said switch in a circuit-closed position until said plug is melted.

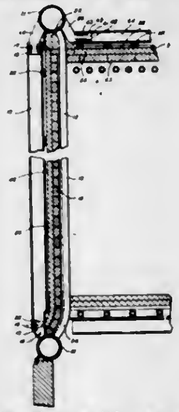
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**2,649,846**

## HEADER SUPPORTED WALL FOR BOILERS

**Louis H. Hosbein, Glencoe, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware**

**Application September 13, 1947, Serial No. 773,760**
**4 Claims. (Cl. 122—510)**



1. The combination with a pair of spaced headers and tubes connecting said headers, of a wall of refractory members having a heat exposed face lying substantially in a plane in outwardly spaced relation to said tubes, a framework comprising frame members extending between said headers, individual means for supporting each frame member solely from said headers, each of said means comprising a member securing one end of said frame member in fixed position on one of said headers and means connecting the other end of said frame member to the other of said headers, each of said connecting means including a sliding joint, heat insulating material on the outer face of said wall, the outer face of said heat insulating material being spaced inwardly from said frame members, and wall refractory supporting members mounted on said frame members.

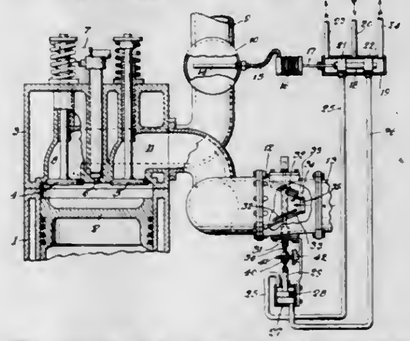
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**2,649,847**

## CONTROL MEANS FOR INTERNAL-COMBUSTION ENGINES

**Ralph Miller, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin**

**Application July 31, 1948, Serial No. 41,794**
**9 Claims. (Cl. 123—32)**



1. The combination of an internal combustion engine having a combustion chamber, a combustion air passage extending thereto, and an exhaust passage extending therefrom: air compressing means for supplying charging air to said combustion air passage; a valve member between the air compressing means and the engine cylinder valves formed and adapted to vary the effective air admitting diameter of said combustion air passage; a heat responsive member positioned to respond to the heat of said exhaust passage; and an actuating connection between said heat responsive member and said valve member adapted to adjust the position of said valve member in response to heat conditions in said exhaust passage, and to lock it in adjusted position.

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**2,649,848**

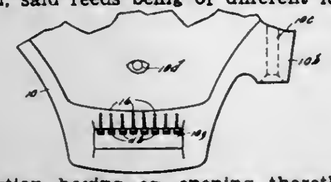
## SPEED INDICATING DEVICE FOR OUTBOARD MOTORS

**Daniel A. Armstrong, Minneapolis, Minn., assignor to Scott-Atwater Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota**

**Application February 11, 1949, Serial No. 75,933**
**1 Claim. (Cl. 123—198)**

A combined outboard motor and tachometer structure having in combination, a motor body, a gas tank mounted on said body, and a gas tank cover secured to said gas tank so as to vibrate in unison with said motor body, said cover having a portion projecting at one side thereof, said

portion having downwardly sloping sides and end and having a chamber therein, a boss in said chamber having a substantially flat surface thereon, a member attached to said surface, a plurality of spaced reeds secured to said member having downturned ends and projecting toward said end, said reeds being of different lengths,



said portion having an opening therethrough through which the end portions of said reeds are visible, and numbers on the outer side of said first mentioned portion aligned with said reeds respectively for indicating speeds of said motor whereby said cover functions as a cover for said gas tank and also functions as a casing for said tachometer structure.

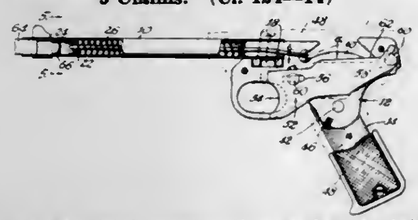
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**2,649,849**

## PISTOL CONSTRUCTION

**Cecil L. Parris, Clarinda, Iowa, assignor to Parris Mfg. Co., Clarinda, Iowa, a corporation of Iowa**

**Application July 17, 1950, Serial No. 174,310**
**5 Claims. (Cl. 124—14)**



1. In a pistol construction, a frame plate, a cocking lever pivoted thereto, a barrel mounted on said frame plate, a spring propelled element in said barrel, a cocking wire for compressing the spring, said frame plate having a stop notch therefor and a cocking notch therefor, said cocking lever having a handle portion on one side of its pivot and a hook portion on the opposite side thereof for directly engaging said cocking wire and propelling it in an arcshaped path from said stop notch to said cocking notch, a trigger plate slidably mounted on said frame plate for generally rearward movement, the rear end thereof having an inclined notch for effecting elevation of the rear end of the trigger plate which rear end engages said cocking wire and lifts it from said cocking notch as said trigger plate is moved in a rearward direction.

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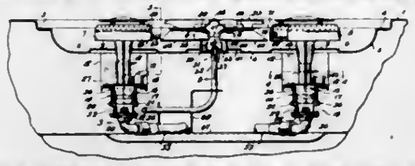
**2,649,850**

## TOP BURNER ASSEMBLY, INCLUDING A FLASH TUBE LIGHTER FOR COOKING STOVES OR RANGES

**Carl F. Schlenk, Cleveland Heights, Evans W. Cheeseman, Lakewood, and Russell L. Patrick, Cleveland, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio**

**Application February 11, 1850, Serial No. 143,758**
**16 Claims. (Cl. 126—39)**

1. In combination, a stove top having an opening for a top burner assembly, an aeration plate occupying said opening, means supporting the plate with its perimeter adjacent the edge of the top about said opening, said plate having a burner opening, a support below said burner opening, a mixer equipped with an adjustable air shutter carried by said support below the burner opening of the aeration plate, a main burner including a mixing tube that projects downwardly through said burner opening and has detachable connection with the mixer, a pilot light housing incorporated in the aeration plate and opening downwardly through the same, said housing ris-



ing a distance above the plate, a pilot burner in operative relation to said housing, a flash tube extending from and communicating with the interior of said housing and being disposed above and in spaced relation to the aeration plate, the end of the flash tube remote from the housing being adjacent the main burner, the latter having a lighter port, and positioning means for locating the main burner with its lighter port in operative relation to the flash tube.

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**2,649,851**

## BURNER FOR VULCANIZING APPARATUS

**Wilhelm Friedrich Peters, Frankfurt am Main Niederursel, and Josef Riesinger, Frankfurt am Main, Germany, assignors to Valex J. Delhomme, Carencro, La.**

**Application April 18, 1950, Serial No. 156,664**
**In Germany February 9, 1949**
**3 Claims. (Cl. 126—43)**



1. For use with a vulcanizing press including a base member with a central depression, a burner including a sheet having a depending projection receivable in the depression, a vertically extending socket tube secured on said sheet and including diametrically opposed longitudinal slots, a spring arm pivoted for vertical movement at one of its ends on said sheet and extending through said slots, an upstanding bar on said sheet adjacent said socket tube, vertically spaced teeth on said bar for retaining said spring arm in vertically adjusted position, and an elongated fuel cartridge received in said tube socket and resting on said spring arm.

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**2,649,852**

## HOT DOG BARBECUE AND BUN WARMER

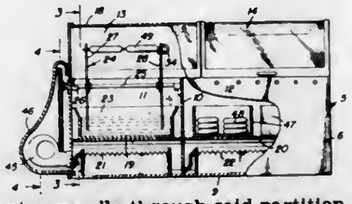
**Field F. McCandless, Houston, Tex., assignor of thirty-three and one-third per cent to Abe Golob and thirty-three and one-third per cent to Fermon T. Walton, both of Houston, Tex.**

**Original application June 2, 1949, Serial No. 96,673. Divided and this application December 9, 1949, Serial No. 132,015**
**1 Claim. (Cl. 126—273)**

A barbecue apparatus comprising a rectangular case having side and end walls, and a closed bottom and open top, a vertical central partition in said case extending from top to bottom thereof and dividing the same transversely into a pair of side by side food cooking and warming compartments, respectively, a horizontal perforated shelf



in the bottom of said cooking compartment dividing the same horizontally and spaced from said bottom of the case for supporting a cooking utensil elevated above the bottom of the case, a heating element in the space between the horizontal shelf and the bottom of the case, a blower on the outside of the case discharging into said space to force air heated in said space by said



element upwardly through said partition and out of the top of the cooking compartment, an arcuate cover for the top of the cooking compartment and a portion of the top of the warming compartment, said cover being solid and extending beyond said partition and opening downwardly to form an arched flue passing heated air forced upwardly out of said cooking compartment into the top of said warming compartment, and a cover for the remainder of the top of said warming compartment.

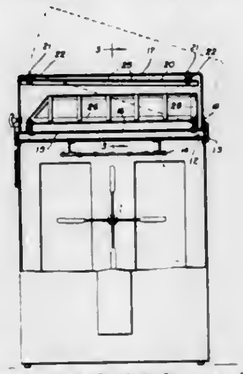
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**2,649,853**

## BUN WARMER

**Glenn M. Larkin, Quincy, Mich., assignor of one-half to Charles R. Larkin, Toledo, Ohio**

**Application July 7, 1952, Serial No. 297,525**
**2 Claims. (Cl. 126—381)**



1. A bun warming device for use in combination with a barbecue appliance and comprising a pan having upstanding sides adapted to contain a quantity of water, a first baffle covering said pan for controlling the rise of vapor from said pan, a bun tray disposed over said baffle, a cover hingedly connected to one side of said pan for completely covering said bun tray, said pan and said cover providing in combination an enclosure for said tray whereby vapor generated by heating said pan will be retained inside such enclosure, said cover having a top and depending sides which are located inside the perimeter of said pan whereby condensate developed inside said cover will drain into said pan, one of said cover sides provided along the lower marginal edge with a hinge construction which is attached to the inside upper portion of said one pan side whereby the lower edge of said one cover side will at all times be disposed inside said one pan side, and a second baffle mounted on the underside of said cover top and having side lips for draining condensate toward the hinged side of said cover, said second baffle having its central portion higher than the side lip portions whereby liquid will flow toward said lips, and further being continuously sloped from the side opposite said hinge construction toward said hinged cover side, said cover and said second baffle being so arranged that as said cover is being manipulated to open position droplets of condensate falling from said cover top will be deflected by said second baffle toward the hinged side of said cover thereby preventing such droplets from falling straight down onto said bun tray.

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**2,649,854**

## INSTRUMENT FOR CLOSING THE URETHRA

**Hans Salm, Munich, Germany**

**Application August 31, 1950, Serial No. 182,520**
**In Germany April 27, 1949**
**9 Claims. (Cl. 128—1)**



1. A device for closing the urethra comprising a substantially cup-shaped body of elastic material suitable to be inserted into the mouth of the urethra with its closed end first; a flange at the open end of said body, an inner enlargement at the closed end of said body, said flange and enlargement defining between themselves an annular contraction of said body serving as a seat for parts of the urethra clamped between said flange and expansion, and means provided inside said body to increase the clamping pressure between said flange and said expansion.

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**2,649,855**

## YOUTH-CHIN MASSAGER

**Giovanna L. Hanrahan, Brooklyn, N. Y.**

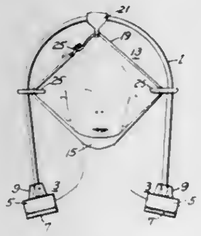
**Application September 13, 1952, Serial No. 309,533**
**4 Claims. (Cl. 128—24.1)**



1. A chin massager comprising a substantially box-shaped container open at the top, a handle rigidly secured to the bottom of said container, and a substantially box-shaped cover adapted to slide onto said container, the top of said cover being concavely curved to conform to the contour

of the human chin and having a plurality of spaced openings, and ice-cubes inside said container.

2,649,856
**CERVICAL TRACTION FRAME**
Egon F. Schmerl, Piedmont, Calif.
Application May 31, 1951, Serial No. 229,019
5 Claims. (Cl. 128—75)



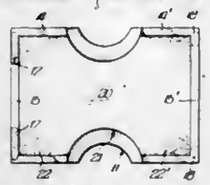
1. A cervical traction frame comprising a U-shape frame member of a size to encircle the head of a wearer in a vertical plane, means for anchoring said frame member at its ends to the wearer thereof, said means including a pair of shoulder pads, one for each shoulder and applied to an end of said frame member, a head sling including a chin support and a nape support merging into an overhead suspension band, means on said frame member suspending said sling by its suspension strap from said frame member, and means for localizing pressure contact areas of said sling to the chin and nape of the wearer, said means involving a pair of guides each mounted on a different leg of said frame member and having an opening therein to slidably receive said suspension band.

2,649,857
**FACE LIFTING DEVICE**
Marion E. O'Loughlin, Los Angeles County, Calif.
Application July 20, 1950, Serial No. 174,972
1 Claim. (Cl. 128—76)



A face-lifting device, including: a flexible frame comprising a first strap, a second strap connected at its ends to the first strap between the ends of the latter; and a cap having a first elastic element connected at its ends to the first strap, a second elastic element connected at its ends to the second strap at points spaced from the ends of the latter, and a third elastic element connected at one end to the second strap between the ends of said second element, at its other end to said first element, between the ends thereof, and between its ends to said element between the ends of the latter.

2,649,858
**DISPOSABLE BABY DIAPER**
John M. Le Bolt, Deerfield, Ill., assignor to The Cromwell Paper Company, Chicago, Ill., a corporation of Illinois
Application January 9, 1951, Serial No. 205,130
5 Claims. (Cl. 128—284)



1. In a disposable baby diaper of the class described, the combination of an inner ply of soft texture paper non-irritating to the skin, a ply of absorbent wadding on the outer surface of said inner ply, said inner ply having marginal strips folded over and adhesively joined to the outer surface of said absorbent wadding, said inner ply comprising a crotch portion and front and rear band portions extending up from said crotch portion, said front and rear band portions adapted to be lapped one over the other at the side of the baby, relatively long strips of self-sealing adhesive on one of said band portions, and tabs of self-sealing adhesive on the other of said band portions adapted to be pressed into sealing engagement with said long strips of adhesive for holding the diaper in place, said adhesive tabs being adapted to be pressed into contact at different points along the lengths of said adhesive strips to enable the size of the diaper to be adjusted to different babies.

2,649,859
**DISPOSABLE DIAPER**
William A. Hermanson, Brookline, and Gerald I. Hermanson, Newton, Mass.
Application February 10, 1951, Serial No. 210,402
10 Claims. (Cl. 128—287)



1. An integrated disposable diaper comprising a top surfacing web substantially of vegetable fibers, having wet strength to a high degree, permeability and absorptivity, and having a caliper not in excess of .0015 inch, a number of creped cellulose thin plies and a water-proof backing sheet having a caliper not in excess of .004 inch, heat sealed to the surfacing web.

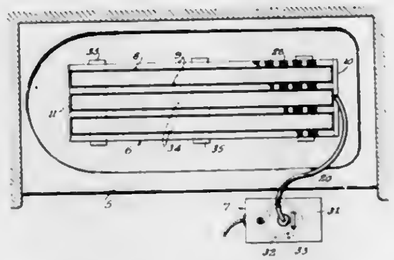
2,649,860
**SURGICAL INSTRUMENT**
John E. E. Royer, Spokane, Wash.
Application April 7, 1952, Serial No. 280,901
4 Claims. (Cl. 128—314)



1. A surgical knife for the purpose described, comprising a straight pointed blade having a concave sharp edged saddle portion set back from the blade point and said blade having the edges thereof extending from both ends of the saddle portion rounded to smooth convex surfaces incapable of cutting the flesh.

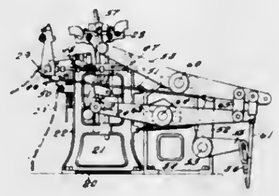


2,649,861
**BALNEOTHERAPY APPARATUS**
Robert T. Melsheimer, Hollywood, Calif.
Application October 14, 1950, Serial No. 190,177
4 Claims. (Cl. 128—369)



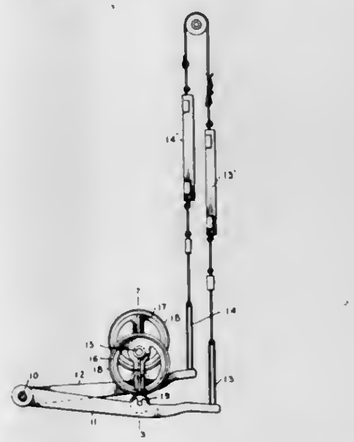
4. A gas-bubble-discharging unit comprising a set of elongated and parallel tubes each having discharge openings, a header connecting said tubes at one end and supplying gas thereto, each tube having a passage therealong and in direct communication with the header, a strip of felt material in each tube between its passage and discharge openings, and a longitudinal perforated channel member disposed within each tube and, together with a wall of the latter, defining the mentioned passage, said channel member also confining the strip of felt material against an opposite wall of the tube.

2,649,862
**JACQUARD MECHANISM AND PROCESS**
John Henry Harding, generally known as Harry J. Harding, Philadelphia, Pa., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 17, 1952, Serial No. 293,978
14 Claims. (Cl. 139—59)



1. In a jacquard for a loom, a card cylinder, cards therefor, lash selector needles and float selector needles cooperating with the cards, lash hooks operatively connected to the lash selector needles, said lash hooks having lash knife hook ends and comberboard hook ends, float hooks operatively connected to the float selector needles including float knife hook ends and comberboard hook ends, each float hook being paired with a lash hook which manipulates the same pile warp on the loom, a lash knife, means for moving the lash knife up and down in position to selectively engage and raise lash hooks, a comberboard, means for moving the comberboard up and down through a lesser distance than the movement of the lash knife for raising lash hooks and float hooks and a float knife selectively engaging float hooks and holding the same in raised position while other float hooks are in lowered position.

2,649,863
**HARNESS OPERATING MEANS FOR LOOMS**
Frank N. Francis, Greer, and Coleman L. Francis, Greenville, S. C.
Application January 5, 1951, Serial No. 204,532
1 Claim. (Cl. 139—79)

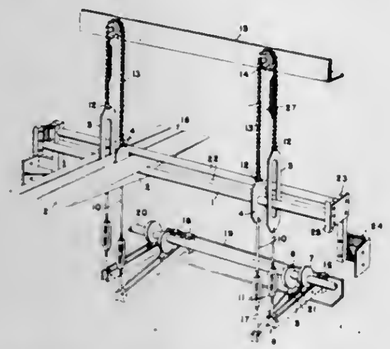


A loom comprising, mechanism including harnesses which are vertically movable in opposite directions, vertically swinging treadles arranged beneath the harnesses, means for connecting the free end portion of one treadle with one harness, means for connecting the free end portion of the other treadle with the other harness, the free end portions of the treadles moving simultaneously in opposite directions, rollers mounted upon the treadles near their longitudinal centers, each roller having a substantially flat wide periphery and provided upon such periphery adjacent to the longitudinal center of the periphery, with an annular narrow groove, the rollers being held against axial movement with relation to the treadles and the rollers moving vertically with the vertical swinging movement of the treadles, a cam shaft extending transversely of the treadles above and adjacent to the rollers, cams mounted upon the cam shaft and held against axial movement with relation thereto, the cams being arranged above and adjacent to the rollers, each cam having a substantially flat wide periphery and provided at substantially the longitudinal center of the periphery with an annular narrow tongue, the cam having its periphery contacting with and operating against the periphery of the adjacent roller to move the roller and treadle vertically, such cam having its annular tongue entering the groove of the adjacent roller, said groove being deeper than the radial dimension of the tongue, the tongue and groove preventing separation of the cam and roller.

2,649,864
**ATTACHMENT FOR WEAVING HIGH DENSITY FABRICS**
Mayer Mayer, Jr., and George J. Kyame, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture
Application April 24, 1951, Serial No. 222,726
4 Claims. (Cl. 139—97)
(Granted under Title 35, U. S. Code (1952), sec. 266)

1. In a loom having a warp beam, whip roll, drop wires, shuttle harnesses, shuttle lay sword

and reed provided with dents, and a loom camshaft for operating movable parts, the apparatus comprising: a horizontal push bar slidably mounted so that it is free to move in a vertical



direction, but not in a horizontal direction, and positioned behind the drop wires so that it divides the warp strands into two groups each containing half of the total number of strands and half of the strands passing through each consecutive two dents in the reed; two elongated flat loading bars centrally pierced to receive and hold said push bar, so that the push bar is free to move horizontally but not vertically with respect to the loading bars, positioned with their width parallel to the warp strands and extending above and below said strands further than said loading bars move; a chain passing from each of said load bars over an idler sprocket mounted on a loom superstructure to an elongated slotted flat bar positioned with its width paralleling the fiber strands and slotted to accommodate the travel of the push bar; cam actuated levers pivotally attached to the said loading and slotted bars through adjustable rigid connecting members and mounted below the loom cam shaft; cams rigidly attached to the loom camshaft positioned to lower one of said levers the same distance the other is allowed to rise; and horizontal guide bars rigidly mounted above and below the warp strands in both of the aforesaid groups and mounted between the said push bar and the drop wires so that all of the warp strands are held substantially in the plane of the normal warp line.

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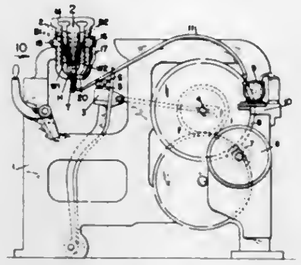
**2,649,865**

## PNEUMATIC THREAD HOLDER FOR WEFT REPLENISHING LOOMS

**Raymond F. Dion, Leominster, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**

**Application December 15, 1951, Serial No. 261,867**
**17 Claims. (Cl. 139—247)**

1. In pneumatic thread holder means for a weft replenishing loom provided with a magazine to hold reserve bobbins from which weft ends extend, means defining an air and thread passage into which said weft ends extend open at the opposite ends thereof and extending generally in a horizontal direction toward and away from the magazine, an air injector to introduce a stream of compressed air into the open end of said passage adjacent to the magazine in a direction away from the magazine toward the other open end of the passage, and said means having therein a thread slot extending in the direction of the length of said passage communicating with the open ends of said passage and opening into the latter and affording a pathway for the



introduction of weft ends extending from the magazine into said passage.

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**2,649,866**

## PNEUMATIC THREAD HOLDER FOR WEFT REPLENISHING LOOMS

**Raymond F. Dion, Leominster, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts**

**Application January 10, 1952, Serial No. 265,808**
**10 Claims. (Cl. 139—247)**



1. In pneumatic thread holder means for a weft replenishing loom having a magazine to hold vertically arranged reserve bobbins from which weft ends extend, means defining an air and thread passage to receive said weft ends extending generally in a horizontal direction toward and from the magazine and having an intake mouth at the end thereof adjacent to the magazine formed with an upper edge and having a discharge mouth at the end thereof remote from the magazine formed with a lower edge, and an air injector to introduce a jet of compressed air into said intake mouth in a direction toward the discharge mouth to tension the weft ends in the passage, said upper and lower edges being so related to the topmost bobbin in the magazine that the weft end of said topmost bobbin when drawn taut over said edge enters the intake mouth at a point spaced below said upper edge.

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**2,649,867**

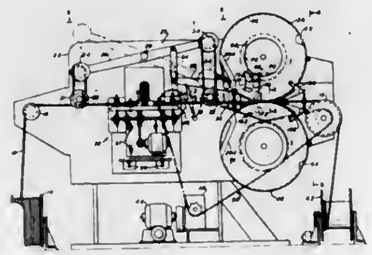
## APPARATUS FOR ADVANCING FILAMENTARY ARTICLES

**Paul R. Powell, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York**

**Application February 21, 1949, Serial No. 77,547**
**2 Claims. (Cl. 140—129)**

1. An apparatus for advancing filaments from a storage device, which comprises a filament-supplying means, means spaced from the filament-supplying means for advancing a filament at a constant predetermined rate of speed, a group of individually rotatable guide sheaves mounted for rotation on a stationary axis, a second group of individually rotatable guide sheaves mounted for rotation on a second stationary axis spaced from and substantially parallel to the axis of rotation of the first-mentioned group of guide sheaves, a lever having arms of equal length and extending in a position offset from the groups of guide sheaves, at least one guide sheave mounted on one end of the lever, at least one guide sheave mounted on the other end of the lever so that a filament advanced from the fila-





ment-supplying means by the filament-advancing means along a path from the filament-supplying means to one of the first-mentioned group of guide sheaves, from that guide sheave to the guide sheave on the arm of the lever most adjacent thereto, from that guide sheave to another guide sheave of the first group of guide sheaves, from that guide sheave to one of the guide sheaves of the second-mentioned group of guide sheaves, from that guide sheave to the guide sheave mounted on the other arm of the lever, from that guide sheave to one of the other guide sheaves of the second-mentioned group of guide sheaves, and from that guide sheave to the filament-advancing means, and periodically operable cam means for pivoting the lever so that, when one of the guide sheaves mounted on the arms thereof is moved toward the group of guide sheaves most adjacent thereto, the guide sheave on the other arm of the lever is moved away from the other group of guide sheaves, whereby a predetermined length of the filament is taken up by one of the guide sheaves of the lever and the group of guide sheaves most adjacent thereto and is an equal length thereof given up by the other guide sheave on the lever and the group of guide sheaves most adjacent thereto.

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**2,649,868**

## MOUNTING ROTORS ON ARBORS OF VARIOUS TRANSAXIAL CONTOURS

**Dewey E. Gommel, Indianapolis, Ind., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois**

**Application July 5, 1951, Serial No. 235,340**
**2 Claims. (Cl. 143—155)**

1. A rotary tool adapted for mounting selectively on arbors of round, square or rhombic cross-section, said tool having a central eye defined by two parallel sides respectively superimposed upon two opposite sides of a rhomb concentric with said tool, and by two other sides each having a portion superimposed upon another side of such rhomb and each having another portion superimposed on a side of a square concentric with said tool, such square having two other sides



respectively superimposed on the first-named sides of such rhomb.

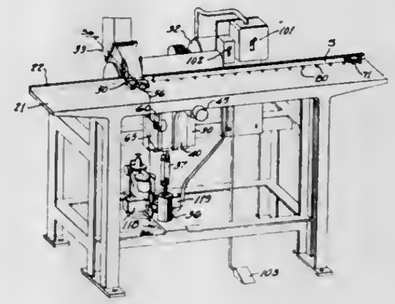
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**2,649,869**

## APPARATUS FOR MAKING WOOD PATCHES

**Elbert V. Bennett and Harrell Renn, Albany, Oreg., assignors to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon**

**Application August 29, 1950, Serial No. 181,983**
**12 Claims. (Cl. 144—2)**



1. In a veneer patch cutting machine, a table for supporting a strip of wood veneer in fixed position, a rotary tool having V-shaped cutting blades for cutting a transverse groove in said strip, a slide carrying said tool for traverse movement across said strip, a guide for said slide, means for reciprocating said slide in said guide to traverse the tool between working and non-working positions, and means for adjusting said guide toward and away from said strip to vary the depth of cut.

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**2,649,870**

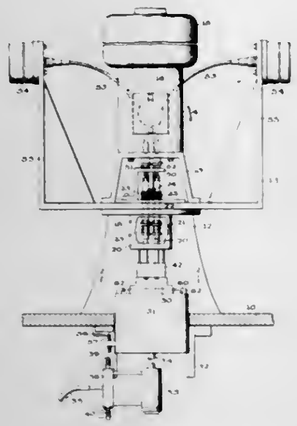
## FAULT DETECTING POWER-DRIVEN SCREW DRIVER

**Saul Keilien and Joseph Discenza, Syracuse, N. Y., assignors to Pass & Seymour, Inc., Syracuse, N. Y., a corporation of New York**

**Application January 19, 1952, Serial No. 267,229**
**9 Claims. (Cl. 144—32)**

8. In a power screw driving machine, in combination, a screw-driver blade, power means for rotating the blade, a clutch between said power means and screw-driver adapted to slip when the torque exceeds a predetermined value, a switch responsive to the speed of rotation of said blade and normally in one circuit controlling condition above a critical speed less than working

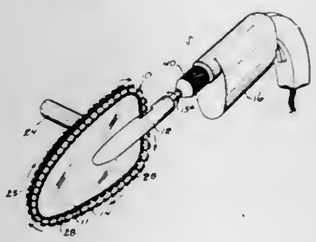
speed and in the opposite condition below said critical speed, a circuit controlled by said switch



and means in said circuit to indicate improperly driven screws.

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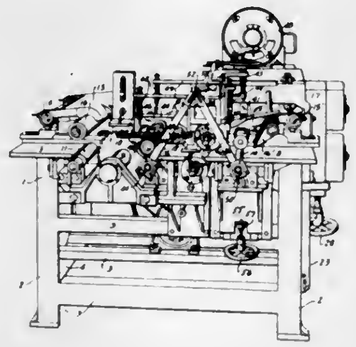
**2,649,871**
**SAW ATTACHMENT FOR DRILLS AND THE LIKE**
**Edward William Desbarat, Montreal, Quebec, Canada**
**Application October 30, 1950, Serial No. 192,839**
**2 Claims. (Cl. 144—35)**



2. A saw attachment for drills and the like adapted to be detachably connected to an electric hand drill and comprising a plate, a plurality of sets of teeth detachably secured to said plate and being movable with respect to the same and forming the cutting edge of the saw attachment, said plate being a rigid and somewhat circular member consisting of a circumferential lip extending slightly outward and upward from the inside edge thereof forming two raceways extending around the periphery of the plate, each of said sets of teeth comprising a two teeth appropriately shaped and formed of a single piece of suitable material, a holder for each of said sets of teeth, each of said holders comprising a metal section having a cut out section in the top thereof, a set of said teeth being fitted into the cut out in the holder and suitably held therein to be removable therefrom, said holder having a cut out section through the center from the bottom up and terminating short of the top and forming sides to the holder, each of said holders having a recess located adjacent to the bottom of a certain one of its sides, said holders fitting to said plate over the upturned lip thereof and over the raceways formed thereby and being seated on ball bearings engaging in the raceways and with a portion of said holders, means of suitably securing said holders in position to the plate, and a gear suitably connected with respect to said plate and engaging in the recesses in the bottom of the side of the holders in turn to effect their movement around the periphery of said plate and thus operate the said sets of teeth.

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**2,649,872**
**PLANER ATTACHMENT FOR ROTARY SAWS**
**Joseph J. Miller, San Francisco, Calif., assignor to Philip A. Sussman and Ellis H. Jacobs, both of San Francisco, Calif.**
**Application December 14, 1950, Serial No. 200,857**
**5 Claims. (Cl. 144—39)**

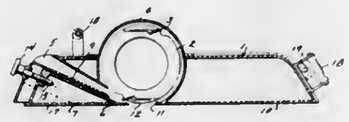


1. In a machine of the character described, a table having an end edge, a swingable frame pivoted above said end edge, a tension roller supported in the said frame above the table, and an auxiliary frame secured to the table at said end edge and having a rotary planer supported therein beyond the tension roller and in operative relation with respect to the table top for planing stock passing over the table and underneath the tension roller, the auxiliary frame having a raised body portion intermediate the table end and the planer to clear the swingable frame, and having spring actuated means supported by said raised body portion and bearing on the swingable frame for placing the roller under tension.

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**2,649,873**
**ELECTRICALLY DRIVEN HAND PLANING MACHINE**
**Kurt Reich, Nurtingen-Zizishausen, and Gustav Walliser, Reutlingen-Betzingen, Germany, assignors to Firma Karl M. Reich, Nurtingen, Wurttemberg, Germany**
**Application August 3, 1949, Serial No. 108,394**
**In Germany October 1, 1948**
**10 Claims. (Cl. 144—117)**

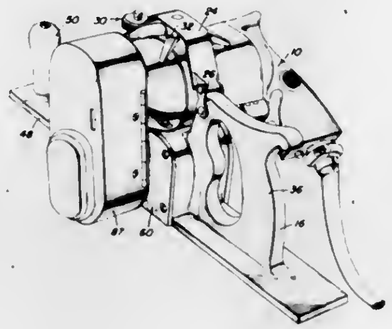
2. An electrically driven planing machine comprising an external rotor motor having cutters secured in the rotor, a housing for the motor and forming the supporting surface for the planing machine when used manually by movement of the machine with the supporting surface as the bottom surface in contact with the surface to be planed, and means on the housing to support the



machine in an inverted position whereby the machine is supported in a stationary manner and the work to be planed is moved over the supporting surface.

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**2,649,874**
**JOINTER ATTACHMENT FOR PORTABLE ELECTRIC DRILLS**
**Joseph J. Konopa, Marshfield, Wis.**
**Application January 9, 1950, Serial No. 137,567**
**2 Claims. (Cl. 144—117)**

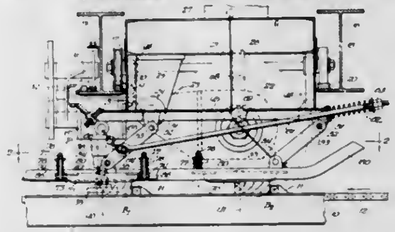


1. A device for adapting an electric drill as a component of a portable jointer, said device comprising an elongated base having forward and rear sections, said rear section having a vertical flange at its forward end, a pair of vertical legs at the rear end of the forward section receiving the flange therebetween, said legs having inner faces contacting the flange, vertical ribs on the inner faces of said legs, said flange having vertical grooves accommodating said ribs to guide the sections during relative vertical movement thereof, said flange having vertical slots, fasteners extending through the legs and the slots to retain the flange adjusted longitudinally of the legs, said rear section having a flat bottom with a recess therein disposed behind the flange, a cutter supported in said recess for rotation, said rear section also including an upper portion provided with a drill-accommodating recess disposed directly above the first-named recess, and means bridging the drill-accommodating recess to clampingly retain a drill in the last-named recess.





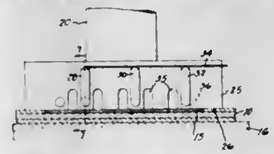
**2,649,875**
**HOLDDOWN SHOE FOR LUMBER TRIMMING AND MARKING MACHINES**
**Charles A. Sherman, Tacoma, Wash., assignor to Weyerhaeuser Timber Company, Tacoma, Wash., a corporation of Washington**
**Application June 13, 1950, Serial No. 167,882**
**7 Claims. (Cl. 144—242)**



3. In a lumber trimming and marking machine and the like, an elongated main hold-down shoe having a channel shaped cross section, a flat work engaging bottom wall on said shoe having a pair of longitudinally spaced longitudinal slots, a pair of auxiliary shoes resiliently mounted on said shoe within said channel and spring actuated to project through said slots, the projecting portions of said auxiliary shoes having elongated, flat, work engaging surfaces, and stops on said auxiliary shoes within said channel engaging said bottom wall to hold the work engaging surfaces of said auxiliary shoes normally projected in parallel spaced relation with said bottom wall of said main shoe.

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**2,649,876**
**HIGH-FREQUENCY HEATING OF GLUED JOINTS**
**Walter S. Thompson, Portland, and Harrell Renn, Albany, Oreg., assignors to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon**
**Application September 20, 1947, Serial No. 775,341**
**8 Claims. (Cl. 144—281)**



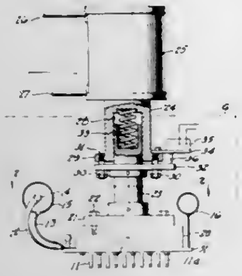
1. A high frequency glue curing press comprising a skeleton pressure member of dielectric material having a pressure face for pressing a joint to be glued and electrodes adjacent said face for establishing dielectric circuits through the glue line in said joint, said skeleton member including air spaces interrupting the surface continuity of said face between said electrodes and having only sufficient solid body adjacent the pressure face for carrying said electrodes and for transmitting the necessary gluing pressure to said pressure face.

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**2,649,877**
**HIGH-FREQUENCY GLUE CURING PRESS**
**Harrell Renn, Albany, Oreg., assignor to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon**
**Application August 28, 1950, Serial No. 181,776**
**9 Claims. (Cl. 144—281)**

1. In a high frequency glue curing press, a pressure member having work engaging electrodes of

different polarity adapted to be connected with a high frequency generator, a member for moving said pressure member toward and away from a work piece, a lost motion connection between said two members, and a switch controlling the



energization of said electrodes mounted on one of said members and engageable with the other member for actuation by relative movement of the two members while said pressure member is in engagement with the work piece.

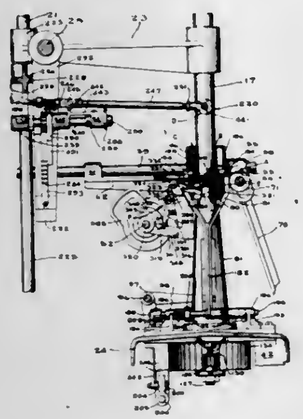
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**2,649,878**

## TOMATO PARING AND CORING MACHINE

**Burton C. Coons, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware**

**Application October 29, 1947, Serial No. 782,784**
**12 Claims. (Cl. 146—38)**



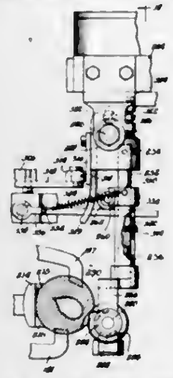
1. A tomato preparation machine including a rotatable member adapted to support a tomato thereon, a screw associated with said rotatable member, means operable to rotate said screw, means operable to move the screw rectilinearly with respect to said rotatable member into the tomato supported thereon, and means supported by said screw and arranged to engage said rotattable member upon movement of said screw a predetermined distance into the tomato for rotating said rotatable member in unison with said screw.

**2,649,879**

## MECHANISM FOR PEELING THE STEM INDENTS OF FRUIT

**Raymond L. Ewald and Henry A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg., a corporation of Oregon**

**Continuation of application Serial No. 472,322, January 14, 1943, which is a division of application Serial No. 363,596, October 31, 1940. This application December 7, 1948, Serial No. 64,053**
**12 Claims. (Cl. 146—44)**



1. In a device of the class described, the combination of means for supporting a whole fruit with the stem cavity exposed and with the longitudinal axis of the stem cavity extending in a predetermined direction, a support adapted to move toward and from said whole fruit, gauge means mounted on said support and having portions adapted to contact the stem cavity of the whole fruit when said support approaches said whole fruit, rotatable cutting means carried by said support and positioned by said gauge for cutting the peel of the stem cavity, and means for shifting said gauge transversely of its approaching and receding movements with respect to the stem cavity of the whole peach in a direction parallel to the longtudinal axis of the stem cavity.

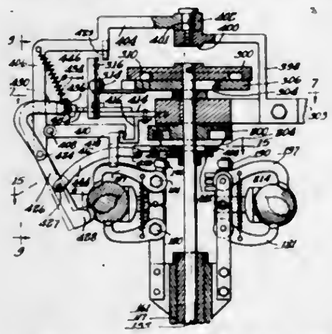
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**2,649,880**

## MECHANISM FOR PROCESSING FRUIT

**Raymond L. Ewald and Henry A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg., a corporation of Oregon**

**Application April 22, 1949, Serial No. 89,124**
**15 Claims. (Cl. 146—73)**



1. In a peach processing machine, peach conveying means including a plurality of spaced



whole peach grasping devices for conveying a succession of whole peaches through a predetermined path from a receiving station to a remotely located cutting station, peach cutting means at said cutting station, means for actuating said cutting means when a peach is delivered to the cutting station by said conveying means, means for feeding in succession to said feeding station peaches generally oriented as to suture plane, means actuated in timed relation to said conveying means for actuating each peach grasping device as it reaches said receiving station to grasp and remove a peach from said feeding means, inspection means mounted for movement at the same rate as each of the succession of peaches to contact each of the succession of peaches while being moved by said conveying means for sensing the position of the suture plane of each peach without interference with the movement of the moving peach, and means operatively controlled by said inspection means and operatively associated with said peach grasping device for releasing from any said device in advance of said cutting station a peach not having its suture plane in a predetermined position.

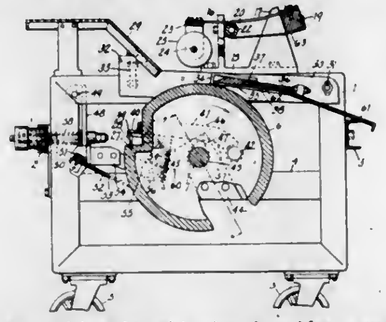
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**2,649,881**

## MACHINE FOR SKINNING HOGSIDES

**David L. Runnells, Jr., and Paul F. Burch, Rockford, Mich., assignors to Wolverine Shoe & Tanning Corporation, Rockford, Mich.**

**Application December 4, 1950, Serial No. 199,052**
**10 Claims. (Cl. 146—130)**



1. A machine for skinning hogsides comprising, a supporting frame, a drum extending transversely of said frame and having a notch extending longitudinally in its periphery with a radial surface facing the direction of rotation of the drum, power means for rotating said drum, pins projecting normally from said radial surface and into said notch, a feed chute having an inclined portion terminating at its lower edge in spaced relationship with said drum and directed at a slightly rearward angle from a radius of said drum to said lower edge, pressure rolls positioned over said drum forwardly of said chute, individual leaf springs yieldably and adjustably supporting said pressure rolls and extending longitudinally therefrom, a skinning knife having a heating element associated therewith and extending longitudinally of said drum and adjustable radially with respect thereto, a stripper bar disposed along said radial surface of said drum and having holes passing said pins, arms pivotally connecting the ends of said stripper bar to the ends of said drum, cams fixedly carried by said frame and adjacent to said arms, cam rollers on said arms cooperative with said cams to move said atripper bar tangentially of said drum and over said pins, a separator plate swingably supported on said frame to the rear of said drum and spring urged toward the mid-portion of said drum, other cams rotatable with said drum at the ends thereof, and cam followers movable with said separator plate and engageable with said other cams to retract said separator plate as the notch in said drum travels thereacross, said fixed and rotatable cams being angularly disposed to move said stripper bar to strip skins from said pins while said separator bar is retracted from said drum.

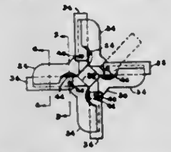
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**2,649,882**

## CUTTING KNIFE FOR FOOD CHOPPERS

**Frank Stephan Chopieska, La Crosse, Wis.**

**Application August 16, 1949, Serial No. 110,601**
**1 Claim. (Cl. 146—189)**



A knife for a food chopper comprising a blade holder having a hub and a plurality of arms extending substantially radially from said hub, said arms having grooves therein extending longitudinally with respect to said arms, said grooves having substantially planar substantially parallel sides, said hub having surfaces coplanar with the sides of said grooves, pins fixedly secured to said blade holder and extending from said surfaces, arcuate recesses in said hub substantially concentric with said pins, and substantially rectangular sheet metal blades mounted in said grooves and having apertures into which said pins project, said arcuate recesses extending from the outer surface of said hub to the surfaces of said hub which are coplanar with the sides of said grooves to provide unobstructed spaces to allow placing blades on the pins and turning them into position in said grooves without interference between the blades and the hub.

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**2,649,883**

## NUT AND DEFORMABLE HOLDER

**Vola Sharp, Dayton, Ohio, assignor to George Leonard Steck, Dayton, Ohio**

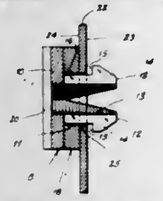
**Application April 15, 1950, Serial No. 156,181**
**3 Claims. (Cl. 151—41.74)**



1. In a fastening means of the type for insertion through a hole in a blind panel for use in securing a cap screw in said hole, comprising in combination, a nut having a threaded aperture and a stamping consisting of a relatively long narrow strip of sheet metal having an aperture therein, said aperture being aligned with the aperture of the nut, flange means on said stamping, said flange means having notches formed intermediate the ends thereof, each said flange means being bent over upon the nut side, top and ends to hold the same in assembled relationship relative to the main body of the stamping and extending beyond each side of the nut so as to reinforce a portion of the stamping adapted to extend across the hole, said strip of sheet metal having comparatively long narrow exten-

sions projecting in opposite directions from the ends of the flange means, each of said extensions having a pair of laterally and oppositely disposed notches, said notches being located a distance from the ends of the flange means slightly less than the distance from the ends of the flange means to the aperture in the nut, each of the extensions having a portion projecting beyond the notches a distance greater than the distance from the notches to the ends of the flange means.

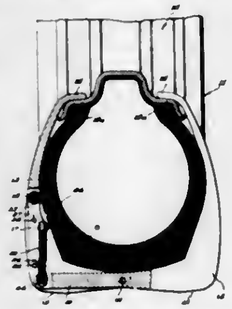
**2,649,884**
**ATTACHMENT NUT**
**Miles R. Westover, Alton, Ill.**
**Application June 17, 1948, Serial No. 33,602**
**5 Claims. (Cl. 151—41.75)**



1. A device of the type described including a nut base containing an opening therethrough and having a wrench-receiving portion, said nut base also having a surface substantially normal to the axis of the hole for abutment against work, and a recess on its side opposite said surface; and a grip element for engagement with the nut base having a sleeve-like portion and a flange projecting laterally therefrom, the sleeve-like portion having an enlarged head at its end opposite from the flange, a threaded opening extending through the flange and into the sleeve-like portion, the head of the sleeve-like portion having shoulders extending substantially normally to the axis of the opening and spaced axially from the flange, and the sleeve-like portion having longitudinal cutouts to divide it into radially compressible prongs; the opening through the base being adapted to receive the sleeve-like portion of the grip element therethrough whereby the flange is interengaged non-rotatably with the recess in the base, and the head of the sleeve-like portion is spaced from the work abutting surface of the base; the recess in the nut base having an axial depth greater than the thickness of the flange of the grip element.

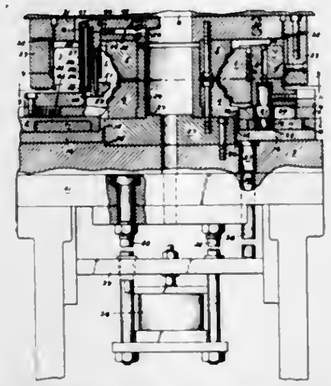
**2,649,885**
**TIRE LUG**
**Edmund V. Brown, St. Catharines, Ontario, Canada**
**Application November 16, 1948, Serial No. 60,214**
**14 Claims. (Cl. 152—228)**

1. A traction lug adapted for use on a tire and rim assembly which comprises a metal clamp member with jaws adapted to span the tread and side walls of the tire and to clamp onto the rim, the jaws of said clamp member being connected by a pivot pin located on the tread spanning portion of said jaws, said jaws being flared outward from the pivot pin to provide support surfaces whereby force applied on said surfaces in reaction to weight applied against said pivot pin will cause said jaws to close, means for locking said jaws after the application of force has brought them into grasping engagement with the rim, said locking means consisting of a cam pivoted on the side wall portion of one of said jaw members and disposed for wedging engagement with a portion of the other of said jaw members extending beyond the clamp pivot, and means for



positively urging said cam in wedging engagement with said portion.

**2,649,886**
**APPARATUS FOR FORMING RIMS**
**Harry A. Palmer, Birmingham, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware**
**Application April 4, 1949, Serial No. 85,447**
**3 Claims. (Cl. 153—13)**



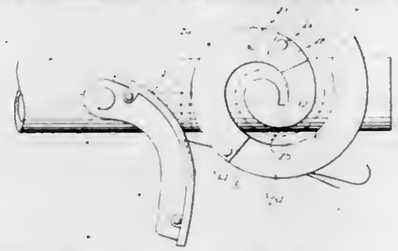
1. An apparatus for forming a rim from an annular blank comprising a bolster, an annular die section fixedly mounted on said bolster, a plate movable axially relative to said bolster, a second plate mounted on said first mentioned plate, an annular series of radially movable outer die sections on said second plate, a rotatable cam ring on said first mentioned plate and guided by said second plate and operatively connected to said outer die sections, and a second annular die section axially aligned with said first mentioned annular die section and movable axially toward the same.

**2,649,887**
**SCROLL BENDING APPARATUS**
**Henry R. Lehman, Greenville, Miss.**
**Application November 21, 1950, Serial No. 196,867**
**1 Claim. (Cl. 153—40)**

A scroll bending apparatus comprising a support, an anvil member pivotally secured to said support, means whereby said anvil member may be held in selected rotated positions relative to said support, a spiral-shaped articulated die member pivoted to said support adjacent said

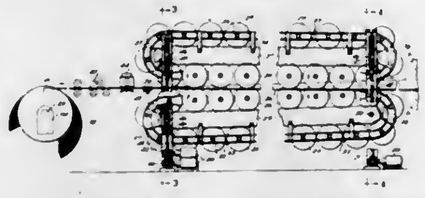


anvil member, said die member being formed of a first segment pivoted to said support and a plurality of additional segments, each of which extends through substantially 180°, the outer peripheral surface of the die member facing the anvil member and said die member being mounted for rotation in the same plane as said anvil



member, said anvil member having a convex surface facing the outer peripheral surface of the die member and said anvil member being adjustable around its pivotal axis by said first named means to increase the radial distance of said convex surface from the pivotal axis of said die member.

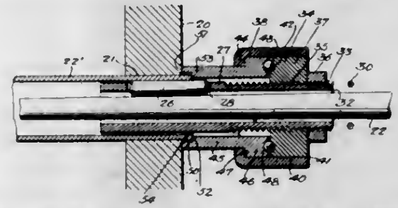
**2,649,888**
**MECHANISM FOR CORRUGATING STRIPS OF MATERIAL**
**James E. Fay, Middletown, Ohio, assignor to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio**
**Application April 23, 1948, Serial No. 22,786**
**19 Claims. (Cl. 153—68)**



1. A forming machine comprising two opposed groups of rollers, means for supporting said rollers for movement in a number of paths which converge toward one end of the machine, the paths of one group being staggered with respect to the paths of the other, means for moving a strip of material between and in contact with the rollers of said groups whereby said strip is formed and said rollers are moved toward said one end, and means for returning said rollers in sequence to their respective starting positions

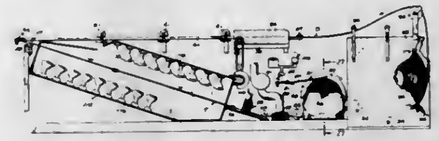
**2,649,889**
**TUBE EXPANDING**
**Frank E. Dudley, Philadelphia, Pa.**
**Application March 30, 1948, Serial No. 18,006**
**4 Claims. (Cl. 153—82)**

1. In a tube expander for expanding a tube in a tube sheet, a mandrel tapering from a larger rear end to a smaller forward end, expanding elements surrounding and engaging the mandrel, a cage around the mandrel, recessed to retain the expanding elements, and having a rearward portion toward the larger end of the mandrel with respect to the expanding elements, a housing around the rearward portion of the cage comprising a rearward housing element which engages the rearward portion of the cage and is fixed in a particular position with respect thereto, and a forward housing element secured to the rearward element which forward housing element extends forwardly of the rearward element and extends radially inwardly near the front of the housing, a bearing engaging the forward face of the rearward element, a stop collar around the cage in front of the housing, extend-



ing rearwardly into the housing and engaging the bearing on the opposite side of the bearing from the engagement by the rearward element, having a forward shoulder inside the housing which forwardly engages the radially inwardly extending portion of the forward element of the housing, and extending forwardly beyond the housing to engage the tube sheet.

**2,649,890**
**MACHINE AND METHOD FOR PRODUCING CORNER BEADS FOR USE IN DRY-BUILT CONSTRUCTION**
**Arthur H. Dunlap, Frank S. Boldrin, and William C. Boldrin, Seattle, Wash.; said Frank S. Boldrin and said William C. Boldrin assignors to said Dunlap**
**Application April 2, 1952, Serial No. 280,142**
**21 Claims. (Cl. 154—1.8)**



1. In a machine for producing a corner-bead composed of a sectionally V-shaped core-strip having a wider backing of flexible tape bonded in centered relation thereto, in combination: separate supply reels of flat stock material, one for the core-strip and the other for the tape, means acting to draw the stock materials off said reels and continuously advance the same along respective guided travel paths which initially follow separate courses and thereafter merge, deforming rolls acting upon the core-strip material as it moves along its said separate course for giving the same a sectional V-shape, means acting successively upon the tape material as the latter moves along its said separate course for first removing adherent lint from a facing surface thereof, then for applying a centered coating of liquid cement upon said facing surface, and finally for partially drying the cement coating, means for exactly centering the cement-coated tape relative to the formed core-strip momentarily in advance of the point at which the two paths merge, and means acting upon the tape and the core-strip as the two move together along said merged travel paths for firmly pressing the core-strip against the cemented surface of the tape to produce the corner-bead.

11. The method of producing multiple lengths of corner-bead each composed of a transversely bent core-strip having a flexible tape bonded

thereto throughout its length and extending transversely beyond at least one side edge thereof, said method including the steps of continuously advancing flat stock materials for the core-strip and the tape along respective guided travel paths which merge, deforming the advancing flat core-strip material to said transversely bent shape before it merges with the tape, bonding the core-strip and tape one to the other as they move along together after merging to thereby form the corner-bead, and severing individual lengths from the said formed corner-bead.

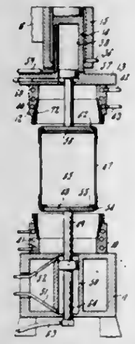
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**2,649,891**

## METHOD AND APPARATUS FOR MAKING PNEUMATIC TIRES

**Dorr J. Hinman, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey**

**Application June 21, 1951, Serial No. 232,681**
**18 Claims. (Cl. 154—9)**



1. A method of making pneumatic tires comprising molding transaxial portions of the central area of the outer rubber covering of a tire casing in the form of generally flat bands from vulcanizable rubber stock by application of heat and pressure in an enclosing mold, preparing a raw tire carcass in the form of a generally flat annular band, applying raw rubber sidewall strips to the lateral areas of the flat carcass band, applying the said molded flat bands to the central portion of the flat carcass band, and shaping and curing the assembly in annular toroidal form.

11. Apparatus for making pneumatic tires comprising a mold shell and a cooperating mold core defining between them a mold cavity having the shape of a transaxial section of the outer rubber covering of a pneumatic tire casing in the form of a generally flat annular band, means for moving said shell into and out of engagement with said core, means for supporting a raw tire carcass in the form of an annular band within said mold shell, and means for moving said supporting means into and out of said shell.

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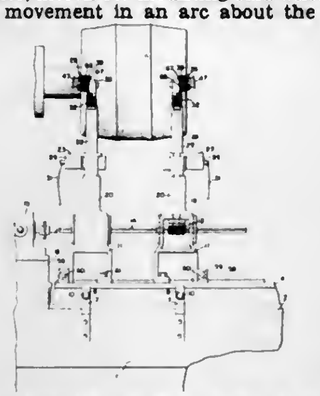
**2,649,892**

## TIRE BEAD STITCHING MECHANISM

**Paul E. Appleby, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

**Application March 17, 1951, Serial No. 216,201**
**14 Claims. (Cl. 154—10)**

1. In a tire building machine of the type employing a revolvable drum upon which the various elements of a pneumatic tire having inextensible bead portions incorporated therein are assembled; a head stitching mechanism for turning and stitching the various fabric plies about the bead, comprising a stitcher wheel and a cooperating roller, said stitcher wheel being slidable axially of said roller, means for mounting said wheel and roller for movement in an arc about the bead,



means for exerting yielding pressure on said mounting means to move the wheel and roller on the ply elements about the bead and resilient means to permit independent movement of said wheel axially of said roller.

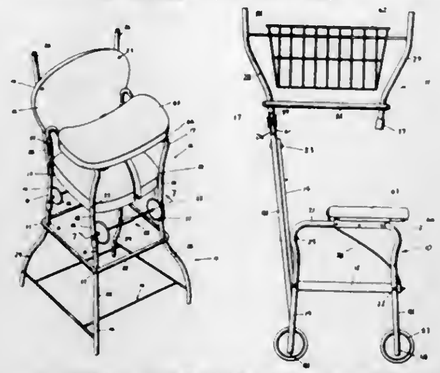
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**2,649,893**

## CHILD'S CONVERTIBLE CHAIR

**William H. Spriggs, Des Moines, Iowa**

**Application July 11, 1951, Serial No. 236,179**
**3 Claims. (Cl. 155—38)**



1. A child's convertible chair structure including a lower section comprised of leg members, connected together by transverse members, an upper section having a seat portion and a back rest portion, legs extended downwardly from said seat portion in a spaced relation corresponding to the spaced relation of the leg members of said lower section, socket members carried on the upper ends of the leg members in said lower section for removably receiving therein the lower ends of the legs of said upper sections to form a child's highchair, ground engaging wheels removably carried on said upper section between the lower ends of the leg members thereof, and a pair of spaced upright supports projected upwardly from said back rest portion for insertion within the socket members on a pair of the leg members of said lower section, whereby to support said lower section in an inverted position above said seat portion, said lower section in said supported inverted position constituting a package carrying container and said upper section a child's stroller.

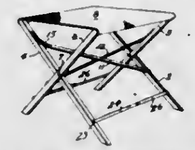


**2,649,894**

## FOLDING STOOL

**John J. Simmons, San Jose, Calif., assignor of one-half to Hermann S. Vath, Menlo Park, Calif.**

**Application April 4, 1949, Serial No. 85,410**
**1 Claim. (Cl. 155—150)**



A four legged stool comprising legs pivotally connected in a pair of pairs, an upper group of four studs, one of said studs in each leg of each pair, means comprising a pair of links each one slotted in its upper portion and slidably engaging one of said group of studs and pivoted on one of said group of studs on the corresponding leg of the other pair, and linkage means comprising a pair of mutually pivotal links having a knuckle-joint therebetween and pivotally connected to corresponding legs of each pair.

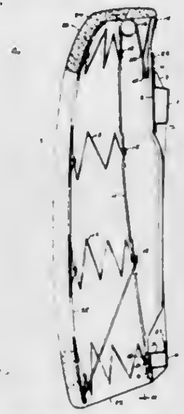
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**2,649,895**

## SEAT BACK SPRING

**Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan**

**Application November 16, 1949, Serial No. 127,574**
**3 Claims. (Cl. 155—179)**



1. A seat back spring having a combination upright spring beams terminating at least one end in safety pin springs, and having floating cross members crossing the spring beams and forming therewith a latticed mat, short coil springs locked into the latticed mat at the intersections of the beams and cross members and held projecting from said mat, a border frame surrounding said coiled springs at the outer ends of the springs, a base frame to which the safety pin springs are anchored, the said base frame comprising several upright stiff wires connected together at one end by a cross wire and connected together at the other end by means of a rectangular frame to one bar of which is connected the legs of the safety pin springs and to the opposite bar of which is connected the stiff upright wires.

**2,649,896**

## SPRING SEAT CUSHION

**Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan**

**Application December 19, 1949, Serial No. 133,724**
**3 Claims. (Cl. 155—179)**



1. A seat cushion having a base frame, a spring assembly secured to the base frame, the said spring assembly comprising a plurality of coiled load supporting springs, a latticed spring mat made up of spring wire stringers crossing one another and locked into the bottom whorls of the load supporting springs, the front and rearwardly extending stringers ending in safety pin or jack springs having turned over ends which are secured to the base frame, the base frame including front and rear J strip rails, each having a double J cross-section, connected by cross straps having turned up ends over which one J portion of the strip is pinched and the turned over ends of the jack springs anchored in the gullet of the frame, between the two J portions.

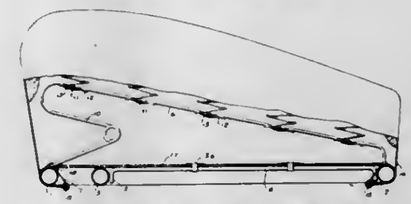
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**2,649,897**

## SPRING AND AIR CUSHION SEAT

**Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan**

**Application May 20, 1952, Serial No. 288,813**
**4 Claims. (Cl. 155—179)**



1. A seat spring and air cushion having in combination a tubular frame, a plurality of spanner wires connecting the front and rear frame members, a plurality of anchor clips welded to the frame and forming tunnels above the frame, a seat spring structure including a plurality of spring wire stringers with down-turned legs having turned over ends fitted in the tunnels, and an air-trapping diaphragm or bottom having notches on the edges and the notches fitted over the anchor clips and the diaphragm seated upon the spanner wires and held in place by clips passing through the diaphragm and pinched over the spanner wires.

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**2,649,898**

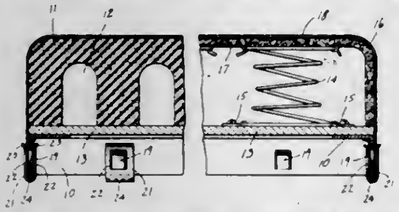
## UPHOLSTERY FASTENER CONSTRUCTION

**Howard M. Quakenbush, Evansville, Ind., assignor to National Furniture Manufacturing Company, Inc., Evansville, Ind., a corporation**

**Application August 4, 1951, Serial No. 240,331**
**5 Claims. (Cl. 155—180)**

1. In an article of furniture or the like including an angle iron frame; an upholstery fastening construction comprising a plurality of angularly

disposed projections formed on one face of the depending leg of said angle iron, and a spring clip straddling said depending leg, enveloping said



projections and anchoring upholstery thereto, said clip having an aperture formed therethrough of a size slightly greater than the area of said projections.

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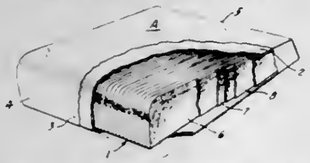
**2,649,899**
**PADDING SUPPORT**
**Harold E. Williams, Carthage, Mo., assignor to Frank B. Williams and Harold E. Williams, both of Carthage, Mo.**
**Application March 24, 1948, Serial No. 16,829**
**1 Claim. (Cl. 155—181)**



A padding support of the kind described comprising a pair of spaced-apart, substantially parallel cord-like side members; a series of substantially parallel, spaced-apart flexible wire members; each of said flexible wire members having eyes at its opposite ends to respectively clampingly engage said side members; and a plurality of spaced-apart parallel strands of cord disposed substantially parallel with said side members, each of said strands being knotted in a marlin spike hitch about each of said wire members, whereby said wire members are substantially secured in relatively fixed relation.

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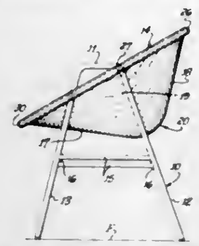
**2,649,900**
**CUSHION AND METHOD OF MANUFACTURING THE SAME**
**Leo A. Pfankuch, La Mesa, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware**
**Application July 24, 1948, Serial No. 40,596**
**13 Claims. (Cl. 155—184)**



1. A cushion having variable predetermined characteristics of pressure and deflection over its load-supporting surface, comprising a filler formed of laminae of resilient material conforming substantially in size and shape to the desired cushion in a plane normal to said load-supporting surface and smaller laminae interspersed therebetween, and a flexible envelope having the dimensions of the desired cushion for supporting all of said laminae within said envelope in compression across the laminations and disposed with their planes normal to the load-supporting surface of the cushion.

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**2,649,901**
**CHAIR STRUCTURE**
**Daniel R. Johnson, Los Angeles, Calif.**
**Application October 31, 1952, Serial No. 317,959**
**4 Claims. (Cl. 155—194)**



3. In a chair: a pair of spaced substantially U-shaped side frame members; a substantially annular frame member encompassing and rigidly secured to the upper portions of said side frame members and extending forwardly and rearwardly of said side frame members, said substantially annular member being inclined in a downward and forward direction and lying substantially in a single central plane, the uppermost rear end of said substantially annular member being disposed substantially above the upper ends of said side frame members and the lowermost front end of said substantially annular member being disposed substantially below the upper ends of said side frame members; and a support carried by and suspended from said substantially annular member to define back, bottom and side portions.

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**2,649,902**
**POWER GRIP BEAD BREAKER FOR TIRES**
**Joseph N. Johnson, Oakland, Calif.**
**Application August 9, 1948, Serial No. 43,248**
**4 Claims. (Cl. 157—1.28)**

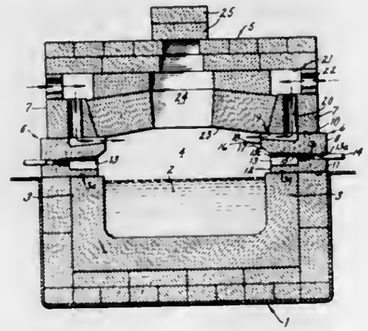


1. A power grip bead breaker for a tire while the wheel remains on the axle comprising an elongated frame having wheels at its forward end and a handle rigidly secured to the frame at its other end for guiding the frame under the fender of a car, a pair of tire-gripping jaws placed in back of the wheels and near the forward end of the frame and lying in a plane that extends substantially at right angles to the plane of the frame, said jaws projecting upwardly substantially in a vertical direction when the frame is in a substantially horizontal position, the wheels spacing the frame a slight distance above the ground so that the jaws can engage with the lower portion of the tire when the vehicle wheel is raised above the ground and be adjusted vertically by swinging the frame about the front wheels, and power means for moving the jaws toward each other for freeing the tire from the rim, the jaw being raised with respect to the tire when the handle is raised and vice versa.



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**2,649,903**
**FOREHEARTH BURNER BLOCK**
**Alan W. Russell, Wethersfield, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware**
**Application May 17, 1949, Serial No. 93,727**
**3 Claims. (Cl. 158—7)**

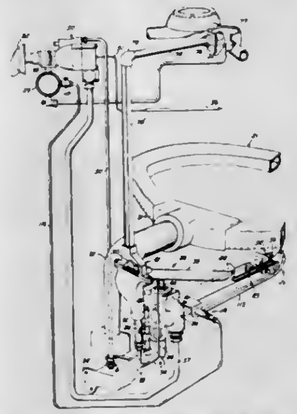


1. A burner block for a glass feeder forehearth wall, having a body of refractory material of substantial length, height and width between opposite side faces thereof, said faces respectively being adapted to be disposed at the outer and inner sides of a forehearth wall containing the block, said block having a plurality of spaced, parallel burner ports extending through the body thereof approximately intermediate its height with the discharge ends of said ports located in the inner side face of the block body, said block body having a relatively projecting portion at its inner side face located above the level of the discharge ends of said burner ports and having an upwardly inclined surface facing in a direction extending obliquely downward past the discharge ends of said burner ports so as to be adapted to be heated from the ports and to radiate heat downwardly and away from the inner side of the body of the block, said upwardly inclined surface having a vertical extent equal to at least a substantial part of the vertical extent of the portion of the block body overlying said ports, said block also being formed with spaced parallel channels in its body opening through the inner side thereof at a level spaced above that of the burner ports and adapted when the block is cooperatively associated with other blocks in a side wall of the forehearth having a roof structure to receive and direct streams of cooling fluid from the block at the inner side thereof against the under surface of the roof structure.

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**2,649,904**
**MAIN BURNER IGNITION SYSTEM**
**Peter I. Hollman, Rockford, Ill., assignor to Geo. D. Roper Corporation, a corporation of Illinois**
**Application July 19, 1949, Serial No. 105,545**
**3 Claims. (Cl. 158—115)**

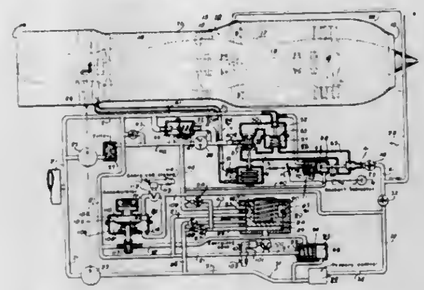
1. In a burner lighting system, the combination of a constantly burning pilot burner, a main burner remotely located with respect to the constantly burning pilot burner and arranged to be connected to a source of fuel, first pilot burner means in lighting relation to said main burner, a substantially 100% primary air burner in spaced relation to the main burner, flashback means between the constantly burning pilot



burner and the substantially 100% primary air burner, flashback means between the substantially 100% primary air burner and the first pilot burner means, and means for supplying gas to said substantially 100% primary air burner and said first pilot burner means to flash flame from the constantly burning pilot burner to the first pilot burner means.

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**2,649,905**
**SELECTIVE FUEL CONTROL FOR TURBOJET POWER PLANTS**
**Paul C. Mangan, Ridley Park, and Robert A. Neal, Media, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 10, 1950, Serial No. 148,844**
**4 Claims. (Cl. 158—36.3)**

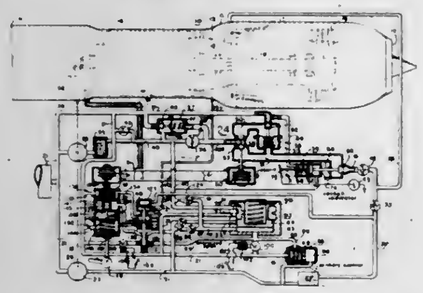


1. A control device for initiating automatic change-over from a primary fuel system to an emergency fuel system, comprising means forming a primary fuel supply passage adapted to receive fuel at variable primary system pressure, a biasing spring, a movable control element operable against the force of said spring to effect a change-over operation, a movable abutment operatively connected to said control element, a control chamber communicating with the primary fuel supply passage, an expansible accumulator chamber also communicating with said

primary fuel passage, said movable abutment being interposed between said control and accumulator chambers, and a valve for cutting off the communication between said primary fuel passage and said accumulator chamber for bottling up fuel therein at a selected primary system pressure, said movable abutment being thereafter operable by pressure of fuel in said accumulator chamber to operate said control element upon a relative reduction in control chamber pressure indicative of failure of said primary fuel system.

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**2,649,906**
**SELECTIVE FUEL CONTROL APPARATUS FOR TURBOJET ENGINES**
**Robert A. Neal, Media, and Paul C. Mangan, Ridley Park, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application March 17, 1950, Serial No. 150,199**
**3 Claims. (Cl. 158—36.4)**

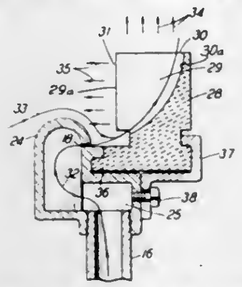


2. Fuel control selector apparatus for an aircraft engine, comprising a throttle, a low pressure source of fuel, engine driven primary and emergency fuel pumps, alternatively operative primary and emergency fuel control systems for supplying the engine with fuel from the low pressure source, a control chamber connected to said primary pump, a spring-biased selector valve operative to render either of said control systems operative, said selector valve being subject to pressure of fuel in said control chamber normally charged by said primary pump for normally maintaining said emergency fuel control system inoperative, a normally closed automatic shuttle valve interposed in a communication between said control chamber and said low pressure source, a movable abutment for actuating said shuttle valve according to the opposing pressures of fuel normally delivered by said primary control system and of a reference pressure, means responsive to atmospheric density, means responsive to the setting of the engine throttle, and a servo-valve device jointly controlled by the last-named two means for establishing said reference pressure.

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**2,649,907**
**GAS FUELED RADIANT HEATER**
**Donald A. Jacobson, Grand Rapids, Mich.**
**Application October 6, 1950, Serial No. 188,692**
**2 Claims. (Cl. 158—113)**

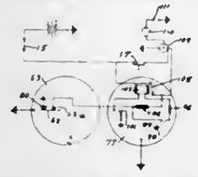
1. A gas burner comprising a fuel distributing member having a peripheral wall defining an elongated passage containing an inlet port, transverse walls integral with said member defining with said peripheral wall a plurality of compartments adjacent said passage and communicating therewith, said peripheral wall being common to said compartments and containing a continuous




narrow slot defining outlet ports intersecting said compartments.

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**2,649,908**
**ENGINE CONTROL SYSTEM FOR AUTOMOTIVE VEHICLES**
**John W. Morse, Glastonbury, Selwyn P. Miles, Wethersfield, and Richard A. Bell, Yalesville, Conn., assignors, by mesne assignments, to Titeflex, Inc., Newark, N. J., a corporation of Massachusetts**
**Application May 29, 1951, Serial No. 228,946**
**8 Claims. (Cl. 161—1)**



1. A system for controlling the engine of an automotive vehicle including an electric circuit for the ignition of said engine, a relay for controlling said circuit, electrically operable timing means in said circuit, a reset switch for energizing the relay to close the circuit and thereby energize the ignition and the timing means, a switch operable by said timing means at the expiration of a predetermined period of time to de-energize said relay and break the circuit and stop the engine and said timing means, and a separate switch responsive to movement of the vehicle for rendering said timing means inoperative independently of the ignition.

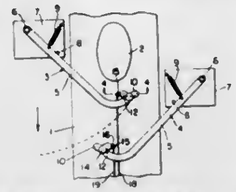
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**2,649,909**
**APPARATUS FOR TRIMMING WRAPPED OBJECTS**
**William F. Lilley, James E. Snyder, and Joseph F. Stalter, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**
**Application September 11, 1948, Serial No. 48,848**
**6 Claims. (Cl. 164—34)**

1. A trimming mechanism adapted to be mounted adjacent a conveyor element in a wrapping machine which comprises a pivoted arm, means for normally limiting the movement of said arm in one direction about its pivot, means for normally urging said arm in a direction to bring said arm against said first-mentioned means, a pivoted follower on the end of said arm, a cutting element carried by said arm and movable therewith, a stop for normally limiting the

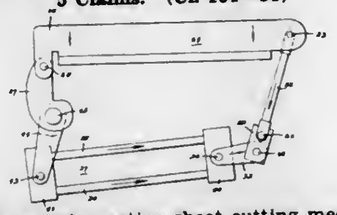


movement of said follower in one direction about its pivot, and a spring normally urging said follower in a direction to bring said follower against said stop.



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**2,649,910**
**DRIVE MECHANISM FOR GUILLOTINE KNIFE BARS**
**Frederick W. Seybold, Westfield, N. J., assignor to E. P. Lawson Co., Inc., New York, N. Y., a corporation of New York**
**Original application August 20, 1948, Serial No. 45,285. Divided and this application April 5, 1950, Serial No. 154,045**
**5 Claims. (Cl. 164—54)**



1. In a reciprocating sheet cutting mechanism comprising a vertically reciprocating knife, driving members for the knife comprising a drive shaft, a first crank carried by said drive shaft, a pull bar connected between said first crank and one end of said knife, the invention which comprises a second crank carried by said drive shaft; a second shaft; a third crank carried by said second shaft; a link member connecting said second crank and said third crank; a fourth crank carried by said second shaft; said fourth crank being connected to the other end of the knife; rotation of said drive shaft through a cycle operating said first crank to pull down and push up the pull bar and the first-mentioned end of the knife and operating said fourth crank to pull down and push up the other end of the knife.

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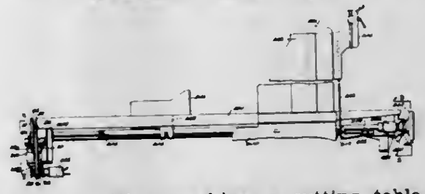
**2,649,911**
**CUTTING BLOCK**
**Joseph W. Cole, Portsmouth, and Lawrence E. McElroy, Newport News, Va.**
**Application May 3, 1948, Serial No. 24,774**
**4 Claims. (Cl. 164—58)**



1. A cutting block consisting of a body portion formed of a relatively solid block consisting solely of hair-like shredded leather particles intermingled and secured together by a resinous adhesive under pressure in the form of a substantially solid block.

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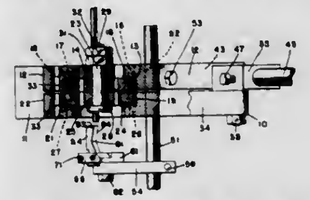
**2,649,912**
**BACK GAUGE FOR PAPER CUTTER-DRIVE DISCONNECT FOR MANUAL OPERATION**
**Sydney Frankel, Ridgefield Park, N. J., assignor to E. P. Lawson Co., Inc., New York, N. Y., a corporation of New York**
**Application March 25, 1950, Serial No. 151,937**
**2 Claims. (Cl. 164—59)**



1. In a cutting machine, a cutting table, a back gauge movable along said cutting table, a longitudinal screw connected to and driving said back gauge; the invention for driving said screw which comprises a hand wheel at one end of said longitudinal screw; a first pulley secured to said longitudinal screw to drive the same; a source of power comprising a second pulley; an arm rotatably mounted about the center of rotation of said second pulley; a third pulley at the end of the arm remote from the center of rotation thereof and a first belt connection between said second and third pulley; a fourth pulley concentric with said third pulley; and a second belt connection between said fourth and first pulleys; said arm being rotatable to a position where said second belt is taut thereby permitting the transmission of power from said second to said first pulley; said arm being also rotatable to a position where said second belt is slack, thereby disconnecting said second pulley from said first pulley, said hand wheel thereby being enabled to rotate said screw free of the drag of said second pulley; solenoid means controlling the position of said arm; a switch positioned adjacent the hand wheel; said hand wheel being longitudinally movable on said end of said screw; said switch being operated by an inward movement of the hand wheel to cause said solenoid means to operate to move said arm to the slack position of the second belt.

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**2,649,913**
**STOP DEVICE FOR ROD SHEARS**
**Victor F. Linder, Lake City, Minn., assignor to Albert T. O'Neil, Lake City, Minn.**
**Application March 31, 1949, Serial No. 84,513**
**8 Claims. (Cl. 164—59)**

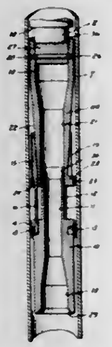


1. In a stop device for use with a rod shear, said device including a support, a mounting carried by said support, a stop piece having a surface for engagement with the end of a rod being sheared, guide means on said mounting for guiding said stop piece for movement in the direction of the length of the rod and along the path of movement thereof, said surface of the stop piece in the normal position of the stop piece being

nearest said shear, a shoulder on said stop piece limiting movement of the same away from the shear, said stop piece having a reduced portion accommodating independent limited lateral movement within said guide when the stop piece is in normal position and resilient means urging said stop piece toward normal position and resisting lateral movement thereof in one direction.

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**2,649,914**
**FLOW GUIDING DEVICE**
**Herbert C. Otis, Dallas, Tex.**
**Application March 6, 1948, Serial No. 13,393**
**4 Claims. (Cl. 166—2)**



1. A flow guiding device adapted to be positioned in a well flow conductor for reducing turbulence of fluids flowing from a sub-surface well flow control device mounted in said conductor, said flow guiding device including: a body having a bore extending axially therethrough and having a stop shoulder at its lower end adapted to engage an upwardly facing surface on the flow control device to position said body with its bore communicating with the bore of the well flow control device, expansible gripping means carried by said body and projecting upwardly therefrom, and an expander sleeve telescoping the body and extending upwardly above the upper end of the body, said expander sleeve being movable downwardly with relation to said gripping means for expanding the gripping means into gripping engagement with the bore wall of the well flow conductor to maintain the body in position therein, the bore of the expander sleeve forming an upward continuation of the bore of the body, and the bores of the body and sleeve gradually increasing in diameter in an upward direction from a point intermediate the ends of the body to deliver fluids flowing through the flow guiding device to the bore of the conductor in a stream of gradually increasing diameter above said point intermediate the ends of the body.

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**2,649,915**
**APPARATUS FOR TREATING WELLS**
**Ira A. Miller, Dallas, Tex., assignor to Otis Engineering Corporation, Dallas, Tex., a corporation of Texas**
**Application December 3, 1946, Serial No. 713,695**
**8 Claims. (Cl. 166—2)**

1. A circulating device including, a tubular housing having a lateral circulation port formed therein and an internal stop shoulder below said port, a plug fitting said port initially closing the same and having a shear tip on its inner end, and a reinforcing sleeve slidable in the bore of the housing and limited against downward movement by the stop shoulder in the housing, said reinforcing sleeve having a recess in its exterior surface receiving the shear tip of the plug



and initially supporting the plug against displacement inwardly of the port, the shear tip being shearable upon movement of the sleeve upwardly above the port to permit the plug to be displaced inwardly of the circulation port.

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**2,649,916**
**WELL PACKER**
**Cicero C. Brown, Houston, Tex.**
**Application September 24, 1951, Serial No. 248,071**
**14 Claims. (Cl. 166—11)**



1. A well packer including, a well fluid conductor, an inner pipe attached to the well conductor and extending downwardly therefrom, an outer tubular mandrel surrounding said inner pipe with a flow passage formed therebetween, a connection between the upper end of the mandrel and the well fluid conductor for imparting longitudinal movement to the mandrel relative to the inner pipe upon a rotation of the conductor with respect to the mandrel, a packing assembly mounted on the mandrel, said mandrel having flow ports which direct flow from exteriorly of the mandrel below the packing assembly through said flow passage to the area exteriorly of the mandrel above the packing assembly, said inner pipe having a port and passage for directing flow from below the inner pipe to the well conductor, said inner pipe having another port and another passage communicating with a flow port in the mandrel above said packing assembly, said ports and passages in the pipe and said ports in the mandrel being opened and closed in accordance with the relative position of the mandrel longitudinally of the inner pipe.



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**2,649,917**
**COMBINATION OIL WELL HYDROSTATIC CLEANOUT BAILER**
**Archie Leon Simmons, Kilgore, Tex., assignor to Sells-Simmons Hydrostatic Bailer Corporation, Gladewater, Tex., a corporation of Delaware**
**Application May 3, 1949, Serial No. 91,065**
**1 Claim. (Cl. 166—19)**



In a bailer for an oil well, a barrel, a collar mounted on the upper end of said barrel, a head having its lower end connected to said collar and having its upper end of reduced diameter, a plunger stem reciprocably arranged in said head, a plurality of spring blades secured to the reduced diameter portion of said head for frictionally engaging said stem, a bushing secured to the lower end of said barrel, a tubular shank connected to said bushing and provided with a chisel on its lower end, said shank having a transversely arranged intake duct, a sleeve surrounding said shank and positioned above said intake duct, said sleeve being provided with a pair of discharge ports for movement into and out of registry with complementary outlet ports in said tubular shank, flap valves hingedly mounted within said tubular shank for selectively closing said ports, said head being provided with a plurality of radially disposed inclined fluid ducts, the lower face of said head having a valve seat, a pump suspended from the lower end of said stem and including a valve mounted for movement into and out of bridging relation with respect to said valve seat, said valve being of less diameter than the interior of said barrel and provided with a cylindrical bushing terminating in a lower collar, a plurality of release ducts extending outwardly and downwardly from said valve and having their lower ends terminating in exterior grooves in the sides of the valve, resilient plates for closing the lower ends of said release ducts, a tube depending from said last named collar, a valve seat mounted on the upper end of said tube, a ball mounted on said valve seat and confined within said valve, a flap valve connected to the lower end of said tube, a plurality of vertically spaced float pistons mounted on said tube, and coil springs circumposed on said tube and interposed between said pistons.

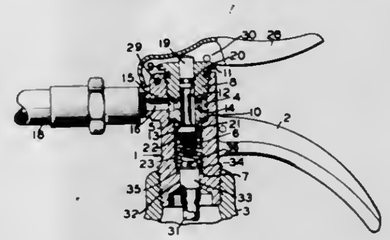
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**2,649,918**
**PHARMACEUTICAL PREPARATIONS**
**Joseph B. Miller, Mobile, Ala.**
**No Drawing. Application August 12, 1949, Serial No. 110,040**
**2 Claims. (Cl. 167—58)**

1. A balanced aqueous streptomycin solution nebulizable to an aerosol for nebulizing streptomycin dissolved therein, said solution containing as its principal active ingredient streptomycin concentrations exceeding 5,000 units for each 5 cc. of solution and being buffered to a pH of approximately 8 and containing glycerin in quantity to stabilize the particle size of the mist nebulized therefrom for optimum distribution thereof in the lungs and further containing approximately 0.1% of an alkylated aryl polyether alcohol to enhance the penetration of the nebulized liquid in the treatment of caseous pulmonary tuberculosis of humans.

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**2,649,919**
**FIRE EXTINGUISHER DISCHARGE HEAD**
**Alexander E. Weaver and Cecil H. Smith, Elmira, N. Y., assignors to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York**
**Application March 7, 1951, Serial No. 214,361**
**4 Claims. (Cl. 169—31)**



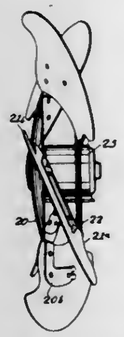
1. A fire extinguisher discharge head comprising a body having a laterally extending handle, the body having a vertical through bore and being exteriorly threaded at its lower end for connection to a fluid medium container; said bore incorporating upper and lower counter-bore sections terminating at their lower ends in upper and lower upwardly facing shoulders, respectively; a plug member having threaded engagement with the upper counter-bore section and, at its lower end, terminating at and seating on the upper shoulder; said plug member having a vertical through bore; a valve member in the lower counter-bore section engaged with the lower end of the plug member; a spring in the lower counter-bore section extending between the lower counter-bore shoulder and the back of the valve member and biasing the same toward the lower end of the plug member; one of said members having a projecting annular seat portion; said plug member having an outlet bore extending laterally from its vertical bore and the head having an outlet communicating with the plug member outlet bore; a valve plunger reciprocable in the plug member bore, said plunger extending above the top of the plug member and being of less diameter than the plug member bore from its lower end to a point above the plug member outlet bore; and an actuator lever pivotally mounted on the head on the side remote from the handle and overlying the handle and the upper end of the valve plunger.

**2,649,920**
**CABLE DRIVE FOR AIRPLANES**
**Emmitt M. Tucker, Medford, Oreg., assignor to Tucker & Sons, Grass Valley, Calif., a corporation of California**
**Application October 29, 1951, Serial No. 253,729**
**8 Claims. (Cl. 170—135.21)**



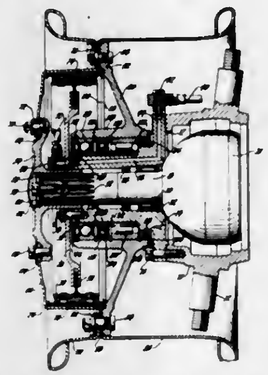
5. Means to drive the transversely spaced shafts of wing-mounted propellers comprising an engine-driven shaft projecting into the wing between the first named shafts, a pulley fixed on each shaft in the wing, parallel-axis idler pulleys journaled in the wing immediately alongside the pulley on the engine driven shaft in the direction of the propeller shafts, a parallel-axis idler pulley journaled immediately alongside each of the propeller shaft-mounted pulleys in the direction of the engine driven shaft, the axes of the engine-driven shaft and the idler pulleys intersecting a line drawn through the axes of the propeller shafts, all of said pulleys being multiple grooved, and an endless multiple-run cable reeved at its ends in generally figure 8 relation about each of the propeller shaft-mounted pulleys and the adjacent idler pulleys, and said cable having separate reaches reeved intermediate their ends oppositely on the pulley on the engine driven shaft, with each reach thence turning about opposite sides of the adjacent idler pulleys.

**2,649,921**
**PROPELLER FOR FLUID**
**Guy S. Faber, Chicago, Ill.**
**Application May 10, 1949, Serial No. 92,469**
**5 Claims. (Cl. 170—159)**



1. A propeller for propeling a fluid relatively forwardly comprising: a rotatable mounting member; a plurality of blades operably attached around and located radially beyond said mounting member and inclined in the same direction with respect to the axis of rotation of said mounting member; and an annular ring substantially concentric with said axis and mounted for rotation with said blades, said ring being located inwardly of but adjacent to the leading edges of said blades and having its rear surface sloped inwardly and forwardly toward the axis of rotation.

**2,649,922**
**DRIVEN STEERING WHEEL**
**Roland V. Hutchinson, Birmingham, and Maurice A. Thorne, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware**
**Application April 6, 1949, Serial No. 85,870**
**3 Claims. (Cl. 180—43)**

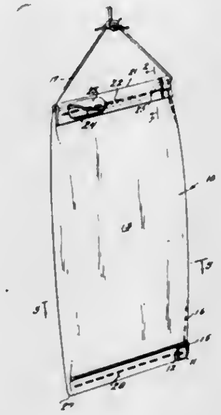


3. A wheel assembly mounted on a hollow supporting axle, a driving shaft extending through said hollow axle, a driving coupling connected to the outer end of said shaft, a brake drum having an inwardly extending flange at the outer side of said drum, means securing and sealing said flange to said coupling, spaced lugs extending outwardly from the inner edge of said drum, a rim with lugs positioned intermediate said drum lugs, a hub, means securing said drum and rim lugs to said hub, an annular resilient metal seal having annular undulations and a stiffening flange positioned between said drum and hub, a sleeve portion of said hub surrounding said supporting axle, a pair of lip seals arranged back-to-back at the inner end of said sleeve between said hub and supporting axle, a roller bearing mounted between said hub and supporting axle and outwardly adjacent said lip seals, a second lip seal facing inwardly and mounted between said hub and supporting axle outwardly adjacent said roller bearing, a sealed ball bearing mounted between said hub and axle support and outwardly adjacent said second seal, an inner snap ring on said axle and an outer snap ring on said sleeve, said rings being mounted outwardly adjacent said ball bearing to secure the bearings in position, an annular locking element between said snap rings, and a brake spider secured to the end of said axle and holding the locking element in position.

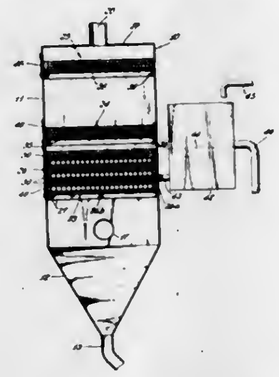
**2,649,923**
**HUMIDIFIER PACKAGE WITH STITCHED-IN SUSPENSION MEANS AND METHOD FOR MAKING SAME**
**Joseph G. Woppman, Baltimore, Md., assignor to The Davison Chemical Corporation, Baltimore, Md., a corporation of Maryland**
**Application January 4, 1951, Serial No. 204,446**
**12 Claims. (Cl. 183—4.8)**

1. A package for suspending in a confined space to control the humidity of the atmosphere therein comprising a non-woven bag having its top edge folded over against one surface of the bag, a stitched seam securing the folded over top edge to the bag, and extending to the sides thereof and a tie string anchored to the bag by the seam toward each side of the bag at points spaced from said sides at least one full stitch of the seam for suspension of the package, and a desiccant within the bag, said non-woven bag having a porosity allowing moisture to diffuse into the desiccant for control of the humidity of the confined space.



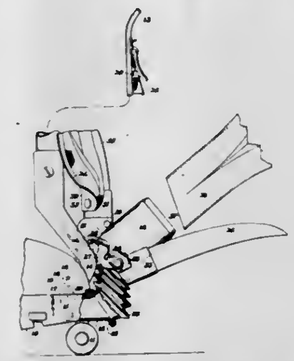


**2,649,924**
**APPARATUS FOR COLLECTING DUST**
**Robert L. McIlvaine and James L. Yates, Glencoe, Ill., assignors, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois**
**Application November 12, 1949, Serial No. 126,852**
**8 Claims. (Cl. 183—15)**



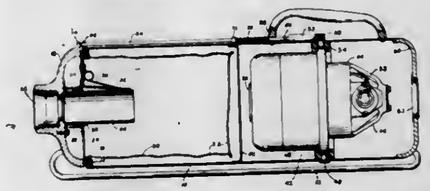
1. A dust collector comprising a housing having an air inlet and an air outlet connection with an air passageway therebetween, a tray having a perforate bottom supported across said passageway, a plurality of contacting units disposed in superimposed relation in said tray, each vessel including a plurality of small spheres supported on large spheres, means for maintaining a liquid bath around said contacting units at a constant level, and means for forcing air through said contacting units to the outlet connection.

**2,649,925**
**SUCTION CLEANER**
**Donald B. Tschudy, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application June 6, 1952, Serial No. 292,120**
**10 Claims. (Cl. 183—36)**



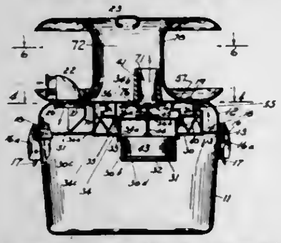
1. In an ambulant suction cleaner having an exhaust outlet at the rear thereof, a propelling handle pivoted to the cleaner adjacent said exhaust outlet and extending upwardly and rearwardly therefrom, bag clamping means attached to said handle above and to the rear of said outlet, said clamping means including a pilot tube and a clamp surrounding the same, means for flexibly connecting said pilot tube to said exhaust outlet, a paper filter bag having an open lower end clamped between said pilot tube and clamp, a cloth bag envelope having its upper end attached to said propelling handle and its lower end attached to the exterior of said clamping means and flexible flap means attached to said clamp and extending a substantial distance beyond the end of said pilot tube between said paper filter bag and said cloth envelope.

**2,649,926**
**MEANS TO EJECT DUST BAG FROM VACUUM CLEANER CASING**
**George H. Cranmer, Elkins Park, Pa., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware**
**Original application September 22, 1945, Serial No. 618,022, now Patent No. 2,564,467, dated August 14, 1951. Divided and this application April 27, 1951, Serial No. 223,420**
**10 Claims. (Cl. 183—37)**



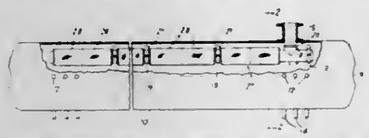
1. In a vacuum cleaner, a casing, means for producing flow of air through said casing, means for separating dust from the air and for containing the dust so separated, and means for utilizing energy obtained from the air flow producing means to eject the containing means from said casing.

**2,649,927**
**VACUUM CLEANING WATER SEPARATOR**
**Mario De J. Ortega, Asharoken Beach, N. Y.**
**Application July 12, 1950, Serial No. 173,292**
**4 Claims. (Cl. 183—41)**



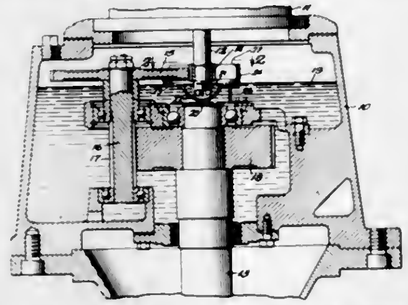
1. In a water separating apparatus of the character described, a receptacle for accumulating the water, a cover of substantial depth removably engaging the receptacle to form a closed chamber, an inlet for a mixture of air and water communicating with the chamber, an outlet adapted for connection to a suction producing device, a labyrinth interposed between the outlet and the chamber, the outlet communicating with the chamber through the labyrinth, a sump casing carried by said labyrinth and extending downwardly therefrom into said receptacle, and having a fluid ingress opening formed in a lower wall thereof, a sump float member disposed in said sump casing, a post extending upwardly from and carried by said sump float member, a valve disc carried by said post in spaced relation to said sump float member, and constructed and arranged to overlie and close said outlet when liquid in said receptacle has filled the same sufficiently to enter said sump casing and float said sump float member thereon to a predetermined liquid level, said post extending through an interior central portion of said labyrinth.

**2,649,928**
**APPARATUS FOR SEPARATING MOISTURE FROM A VAPOR**
**Edwin Durham, Westfield, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey**
**Application November 30, 1949, Serial No. 130,163**
**6 Claims. (Cl. 183—69)**



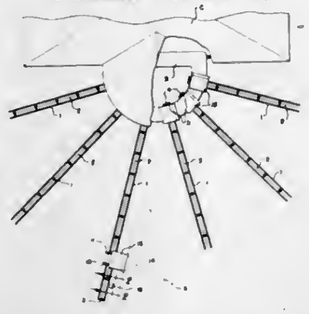
1. In combination, a pressure vessel having inlet openings through which a mixture of vapor and liquid is introduced and having a vapor outlet, a vapor collecting member within an upper interior space of said vessel and having vapor inlet openings in an upper wall portion thereof, said member having a vapor outlet connected to the vapor outlet of said vessel, and moisture separator means overlying said vapor inlet openings in spaced proximity to said member and being sealed to said member and wholly supported thereon beyond the area occupied by said openings, said separator means comprising a vapor-pervious mass formed of screen-like material arranged in successive mutually contacting layers of substantially concentric curvature and providing openings in each of a majority of said layers laterally displaced in at least one direction from corresponding openings in the next successive layer, said openings being elongated in the direction of curvature of said layers.

**2,649,929**
**LUBRICATING MEANS**
**Davis M. Wood, Chicago, Ill., assignor to Foote Bros. Gear and Machine Corporation, Chicago, Ill., a corporation of Delaware**
**Application January 12, 1952, Serial No. 266,193**
**9 Claims. (Cl. 184—13)**



1. A vertical gear unit comprising a casing to hold a body of lubricant, a pair of intermeshing gears in the casing rotatable on spaced vertical axes and lying above the level of the lubricant in the casing, an impeller member carried by one of the gears and having generally radially extending vanes thereon projecting downward into the lubricant in the casing and a dished guide member around the impeller member to direct lubricant displaced by the impeller member against the gears, the dished guide member having a lubricant inlet opening therein below the normal level of lubricant in the casing.

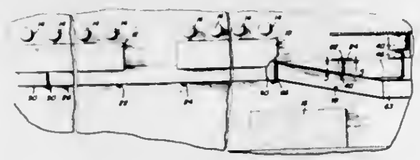
**2,649,930**
**MEANS FOR MARKETING GOODS**
**Kenneth C. Purdy, Vista, Calif.**
**Application July 2, 1948, Serial No. 36,583**
**5 Claims. (Cl. 186—1)**



1. In a means of the class described, a conveyor, a tray movable longitudinally of said conveyor, means for moving said tray on said conveyor, said tray being slidable laterally of the axis of said conveyor and pivoted on a vertical axis, said tray provided with a hood thereover, enclosed on three sides and the top, and weather stripping of resilient material surrounding the open side of said hood.

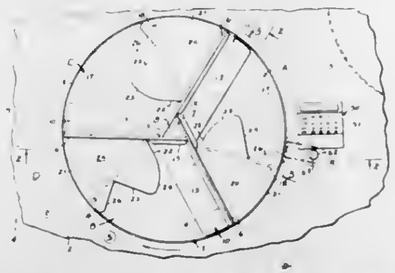


**2,649,931**
**CONVEYER SYSTEM FOR RESTAURANTS**
**Jon Øyvind Slyngstali, Aalesund, Norway**
**Application September 27, 1949, Serial No. 118,106**
**1 Claim. (Cl. 186—1)**



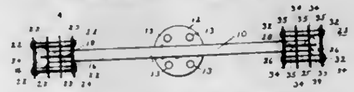
A conveyor system for a restaurant having a table top provided with a front edge defining a "patron's side" and a rear edge defining a "service side" a conveyor disposed partially underneath and partially laterally spaced from the "service side" of the table top, a bottom member and a top member forming a part of said conveyor, means operatively connected with the bottom member for collecting tableware therefrom, said means including a chute having its upper end substantially coplanar with the conveyor bottom member, a guide roller supporting said bottom member adjacent the upper end of said chute, a guide spaced from said roller and disposed below said roller having said conveyor bottom member extending therearound so as to pull the bottom member below said chute, and a liquid receptacle disposed below said chute, said guide being disposed in said receptacle, said guide holding a part of said conveyor in said receptacle to cleanse said conveyor after the tableware has been directed into said chute.

**2,649,932**
**CHECKING DEVICE FOR SELF-SERVICE STORES**
**Marshall O. Bessonette, Medford, Oreg.**
**Application July 13, 1951, Serial No. 236,552**
**7 Claims. (Cl. 186—1)**



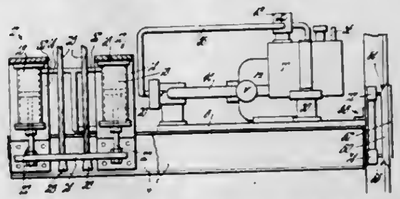
1. In a self-service store checking system, a horizontally disposed circular platform generally coplanar with the floor of said store, means supporting said platform for rotation about a central vertical axis, means dividing said platform into a plurality of radially outwardly opening compartments each adapted to receive a wheeled basket and a purchaser, a stationary checking station alongside said platform for an operator for checking articles bought by such purchaser and for receiving payment therefor, said platform being adapted to be moved intermittently for successively registering said compartments with said checking station.

**2,649,933**
**LIFTING DEVICE**
**Harvard Kaufmann Hecker, University City, Mo., assignor to Curtis Manufacturing Company, St. Louis, Mo., a corporation of Missouri**
**Application June 18, 1949, Serial No. 100,017**
**4 Claims. (Cl. 187—8.74)**



1. A lifting device for vehicles of different styles and shapes that comprises a support adapted to be raised and lowered and a plurality of vehicle-engaging elements carried by said support, said vehicle-engaging elements being grouped together in groups to form a plurality of vehicle-engaging chocks, said chocks being disposed at opposite ends of said support, said vehicle-engaging elements of each chock having vehicle-engaging surfaces thereon which are spaced apart horizontally, the vehicle-engaging elements in each said group having upper edges that are spaced vertically apart from the upper edges of adjacent vehicle-engaging elements in said group, said horizontal spacing of said vehicle-engaging elements and said vertical spacing of the upper edges of said vehicle-engaging elements causing said group of vehicle-engaging elements to define planes inclined downwardly and outwardly, said vehicle-engaging elements being plates of resilient metal, the upper edges of said vehicle-engaging elements being serrated.

**2,649,934**
**ELEVATOR MECHANISM**
**Alphonse Rancourt, Pittsfield, Mass.**
**Application February 12, 1952, Serial No. 271,096**
**2 Claims. (Cl. 187—29)**



2. Mechanism for adjusting the supporting cables and crosshead of an elevator for leveling the floor thereof comprising in combination a supporting plate supported by said cables, adjustable means between said plate and crosshead adapted to maintain predetermined relative levels of said crosshead and plate during up and down movements thereof, operating means for said adjustable means, centering means for controlling said operating means as said plate moves up and down, leveling means for controlling said operating means as said plate is in rest position, and means for transferring the control of said operating means between said centering and leveling means accordingly as the plate is moving up and down or is at rest, said adjustable means including a piston secured to said crosshead and a cylinder reciprocable therein secured to said plate, said operating means including a motor driven pump and connections including a change over valve between said cylinder and a pump arranged whereby liquid may be displaced from or delivered to said cylinder, said centering means including a cam on said supporting plate and circuit closing switches on said crosshead and a

source of power with connections between said switches, source of power and motor driven pump, said leveling means including circuit closing switches on said crosshead operable by a stationary cam and connections between said switches, source of power and valve and motor driven pump, said means for transferring the control of said operating means between said centering and leveling means including electrically operated circuit and an opening and closing relay in the said connections.

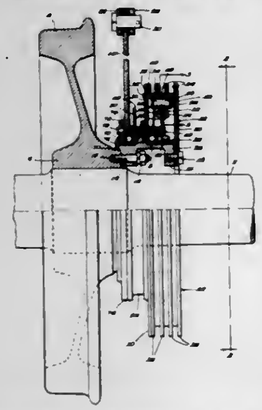
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**2,649,935**

## MAGNETIC RAILWAY BRAKE

**Carl E. Tack, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey**

**Application September 23, 1948, Serial No. 50,779**
**6 Claims. (Cl. 188—33)**



2. In a brake arrangement for a vehicle having a wheel and axle assembly; the combination of a rotor housing having at least one internal rotor surface, a brake stator having a torque connection with the vehicle and having at least one stator surface in the housing spaced radially outwardly from its rotational axis, a body of fluid in the housing containing magnetizable particles and filling a portion only of the housing, sealing means between the stator and housing for preventing leakage of said fluid from said housing, whereby upon rotation thereof said fluid is urged radially outwardly to contact said surfaces and to define space radially inwardly of said surfaces and radially outwardly of said sealing means, electromagnetic means carried by the stator within the housing for developing a magnetic field across said surfaces, and at least one electrical lead extending radially outwardly of said sealing means through said space and connected to said electromagnetic means for establishing an electrical circuit therethrough.

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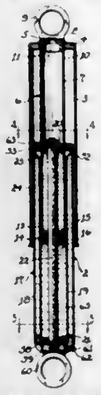
**2,649,936**

## HYDRAULIC SPRING CONTROLLING UNIT

**George W. Crabtree, Cleveland Heights, Ohio**

**Application May 15, 1950, Serial No. 162,066**
**8 Claims. (Cl. 188—88)**

1. In a hydraulic spring-controlling unit, axially-aligned, intersleeved, cooperating inner and outer cylinder members and two piston members, said cylinder members being partly intersleeved and the piston members being positioned in the intersleeved portions of the cylinder members and secured thereto, one of the piston members being directly secured to the free end portion of the inner cylinder member and the other one of said piston members being secured to the outer cylinder member by a piston rod extended through said one piston member, a cylindrical tube sleeved upon said outer cylinder member forming therewith a ring-shaped liquid storage



chamber, valve means controlling communication of said outer cylinder member with said storage chamber, and valved passage means in the said one piston member adapted to control reciprocatory shifting of liquid from either one of said cylinder members into either other one of said cylinder members when said intersleeved cylinder and piston members are reciprocated.

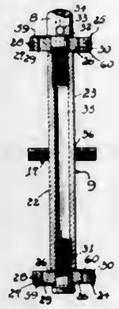
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**2,649,937**

## HYDRAULIC SPRING CONTROL MEANS

**George W. Crabtree, Cleveland Heights, Ohio**

**Application October 22, 1949, Serial No. 123,016**
**2 Claims. (Cl. 188—100)**



1. A choking valve member for double-acting spring controlling units mounting in a cylinder piston couple means with pistons connected by an elongated piston rod, said valve member including a housing with a ring-shaped valve chamber having inlet passages equally spaced from the axis of the chamber and outlet passages equally spaced from said axis a distance different from the distance of the inlet passages from such axis, and a ring-shaped valve member shiftably arranged in the chamber of said housing adapted to be sleeved upon the piston rod of said piston couple means, said valve member including choking passages in communication with said inlet passages and choking passages in communication with said outlet passages.



**2,649,938**

## HYDRAULIC SPRING CONTROL MEANS

**George W. Crabtree, Cleveland Heights, Ohio**

**Application December 16, 1949, Serial No. 133,416**
**1 Claim. (Cl. 188—100)**



In a hydraulic spring-controlling unit an elongated cylinder subdivided into two axially aligned sub-chambers, piston members arranged in said sub-chambers and connected by piston rod means, and a ring-shaped member subdividing the cylinder into said sub-chambers, said ring-shaped member embodying a chambered circular housing and a circular sealing and guiding disk within said housing dimensioned to be radially shiftable therein, and said sealing and guiding disk including an axial bore having said piston rod means slidably extended therethrough.

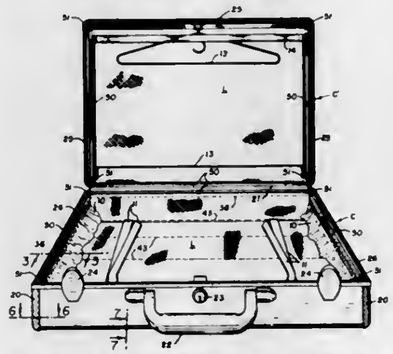
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**2,649,939**

## LUGGAGE COMPARTMENT LINER

**James Donald, Marvin W. Stimson, and Raymond Birza, Denver, Colo., assignors to Shwayder Bros., Inc., Denver, Colo., a corporation of Colorado**

**Application January 3, 1949, Serial No. 68,948**
**14 Claims. (Cl. 190—41)**



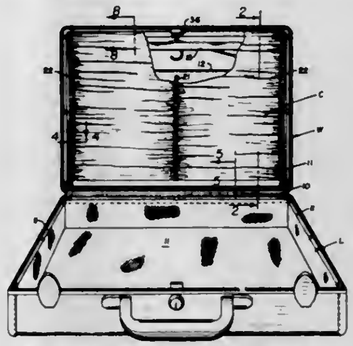
1. In luggage cases and the like, having walls defining a compartment, a liner for such compartment comprising a lining of a size to cover a predetermined portion of at least one said wall; a backing for said lining and on which said lining is mounted; and a reinforcing strip of material normally stronger than said backing and mounted on and encompassing one edge of said backing, said lining enclosing said reinforcing strip.

**2,649,940**

## LUGGAGE COMPARTMENT COVER

**James Donald, Marvin W. Stimson, and Raymond Birza, Denver, Colo., assignors to Shwayder Bros., Inc., Denver, Colo., a corporation of Colorado**

**Application January 7, 1949, Serial No. 69,684**
**6 Claims. (Cl. 190—51)**



6. In a cover for a luggage compartment or the like, said cover being formed principally of fabric, the improvement which comprises a rigid metal rod extending along one edge of said cover fabric; a folded strip of cardboard enclosing said rod and having legs extending along said fabric; a covering strip of fabric extending around said cardboard strip on the outside thereof; and stitching extending substantially parallel to said rod along a line spaced from the folded edge of said cardboard strip and passing through said cover fabric, said cardboard and said covering fabric strip, said stitching defining a rod receiving space.

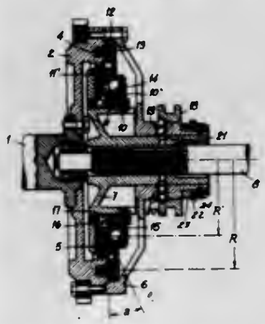
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**2,649,941**

## ELECTROMAGNETICALLY ACTUATED FRICTION COUPLING WITH SERVO-ACTION

**Albert Doebeli, Le Locle, Switzerland**

**Application October 26, 1949, Serial No. 123,655**
**In Switzerland October 29, 1948**
**13 Claims. (Cl. 192—35)**



1. A clutch apparatus, comprising in combination, a rotatable driving structure; a rotatable driven structure coaxial with said driving structure and having a clutching face portion fixedly connected thereto; a first member mounted on said driven structure for rotation therewith; a second member loosely mounted on said driven structure, said first and second members each having a surface portion and said surface por-

tions facing each other and each being formed with at least one wedge-shaped recess, said recesses being in substantial alignment with each other; a ball member located in the space between said recesses and being supported by said members; friction means slidably connected to said driving structure for rotation therewith and being loosely located between said clutching face portion of said driven structure and said second member on the opposite side of the latter from said first member; and moving means associated with said second member for moving the latter together with said friction means toward said clutching face portion of said driven structure to engage the latter with said friction means.

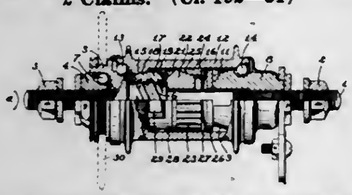
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**2,649,942**

## DRIVING MECHANISM FOR VELOCIPEDES AND THE LIKE

**Edwin Elliott Hood, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware**

**Application January 8, 1951, Serial No. 205,024**
**2 Claims. (Cl. 192—51)**



1. In a forward and backward driving hub for velocipedes and the like, a fixed axle, a bearing cone member mounted near one end thereof, a driving member including a screw shaft rotatably mounted on the bearing cone, a second bearing cone member mounted near the opposite end of the axle having an inwardly facing flat abutment surface, a hub shell rotatably mounted on the driving member and the second cone member having an interior clutch surface, a driving clutch nut member threaded on the screw shaft and movable into clutching engagement with the interior of the hub by forward rotation of the screw shaft, an exteriorly tapered expander member slidably journaled on the axle in position to be engaged by the nut member on backward rotation of the screw shaft, an interiorly tapered clutch shoe seated on the expander member and movable thereby radially outward into clutching engagement with the interior of the hub, and a thrust bearing between the clutch shoe and the flat abutment surface of the second bearing one member limiting longitudinal movement of the shoe while facilitating backward rotation thereof with the screw shaft and expander member.

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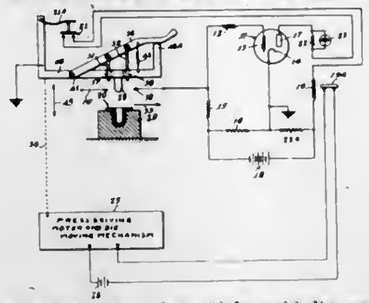
**2,649,943**

## SAFETY ARRANGEMENT FOR PRESSES

**Charles J. Meyers, Los Angeles, Calif., assignor to Tubing Seal-Cap, Inc., Los Angeles, Calif., a corporation of California**

**Application March 26, 1949, Serial No. 83,561**
**8 Claims. (Cl. 192—125)**

1. A safety arrangement for presses having a pair of die members, the subcombination comprising: a cat whisker type of probe disposed in relationship to said cooperating die members for engagement with improperly positioned articles formed by such die members, means arranged to move said die members and means arranged to deenergize said die moving means in accordance with contact of an article with said cat whisker, said last mentioned means comprising a gaseous type of discharge device with a control electrode connected to said cat whisker through a resistance whose magnitude is relatively high with respect to the contact resistance existing between



the cat whisker and the article, said die members being substantially at ground potential, said discharge device having a cathode maintained at substantially the same potential as said die members, and means normally biasing said probe negatively with respect to said cathode.

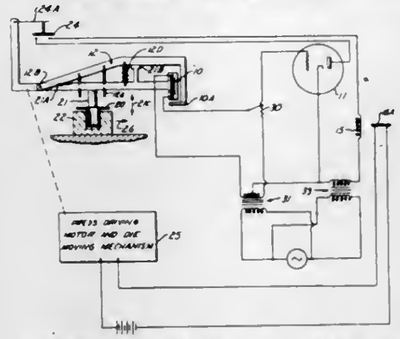
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**2,649,944**

## SWITCHLESS SAFETY ARRANGEMENT FOR PRESSES

**Charles J. Meyers, Los Angeles, Calif., assignor to Tubing Seal-Cap, Inc., Los Angeles, Calif., a corporation of California**

**Application April 2, 1949, Serial No. 85,238**
**8 Claims. (Cl. 192—129)**



1. A safety arrangement for presses comprising: a first member movable in accordance with movement of a die member, a second member normally movable to a predetermined position in normal operation of the press but arranged to assume a position other than said normal position when said die member is likely to become damaged, a gaseous discharge device having a control grid and an anode, a source of voltage, a connection extending from said source to said anode for the flow of space current to said device, a first control circuit incorporating said gaseous discharge device change is arranged to fire in accordance with the differences in phase shift between its control grid and its anode, said first member being arranged to periodically open and close said connection to said anode, and said second member being arranged to control the phase of the grid of said device with respect to its anode in accordance with the position of said second member, and a second control circuit associated with said anode circuit to disable said press when said tube is fired.

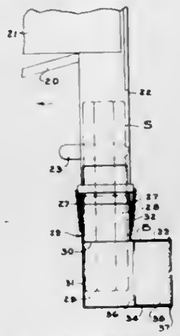


**2,649,945**

## BALE OR BUNDLE HANDLING MEANS FOR BALING PRESSES OR THE LIKE

**Marcus E. McClellan, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa**

**Application May 3, 1948, Serial No. 24,745**
**13 Claims. (Cl. 193—5)**



1. In a baler of the type adapted to travel over the ground and having a bale case for discharging bales in a manner in which the major axis of each bale is generally horizontal and transverse to the line of travel, the improvement comprising: a bale case extension associated with the bale case and having a first portion for receiving a bale in the manner aforesaid and a second related portion offset from the first portion to turn the bale so that its major axis is substantially upright; a third portion adjacent the second portion and angularly related thereto to tip the bale to a position in which its major axis inclines upwardly and longitudinally from the horizontal; and means on said bale case extension for retaining the bale in said last named position.

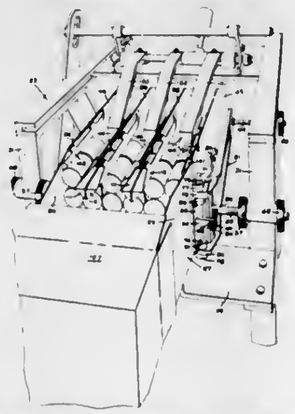
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**2,649,946**

## CASE LOADING CHUTE

**Charles E. Kerr and Robert K. Galloway, Hoopeston, Ill., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware**

**Application February 27, 1951, Serial No. 212,936**
**12 Claims. (Cl. 193—40)**



1. A chute for delivering tiers of containers into a case, crate and the like, comprising a floor; a pair of side walls disposed at either side of said floor to form a passage-way adapted to contain and pass a multi-layer tier of containers in lying-down condition; a plurality of longitudinal bars, one for each of the individual containers comprised in one transverse row of the tier; and means supporting said bars a distance above said floor in a manner permitting individual upward movement thereof while preventing movement of said bars lengthwise of said passage-way.

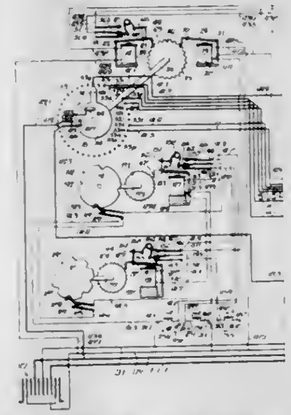
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**2,649,947**

## COIN-CONTROLLED CREDITING AND DEBITING APPARATUS FOR VENDING MACHINES

**Marvin G. Nelsen, Skokie, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois**

**Application July 9, 1947, Serial No. 759,802**
**13 Claims. (Cl. 194—10)**

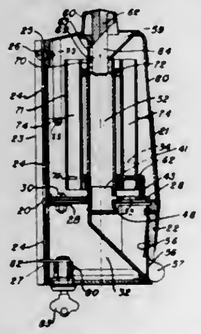


1. Apparatus for vending a plurality of different priced articles one at a time, comprising a plurality of coin responsive switch means for coins of different denominations, an electrical add and subtract stepper means for crediting and debiting units represented by said coins in response to operation of one or more of said switch means, a set of spaced contacts, contact means movable by said stepper means for an initial contact to subsequent contacts and then back to said initial contact, a plurality of circuits connected to predetermined spaced contacts, means for selectively affording energization of certain of said circuits depending on the article the vendee desires to purchase, an impulse means responsive to one of said coin responsive means which is operated by a coin of a larger denomination than that corresponding to a single unit, means for translating the impulses from said impulse means to said stepper means to credit the proper number of units, a plurality of article delivery means, means for operating a predetermined one of said article delivery means incident to sufficient coins having been inserted to cause said add stepper means to move said movable contact means a sufficient distance to pass one of said set of subsequent contacts, engage another thereof and return to one of said spaced contacts to establish the circuit previously selected, means energized incident to engagement of said movable contact means with said another of said set of subsequent contacts for then energizing said subtract stepper means to return said movable contact means to said initial contact, said energized means including an inter-

lock relay for preparing a circuit which is completed by return of said movable contact means to the first of said set of spaced contacts, and an instantaneous circuit established by engagement of said movable contact with said initial contact to reset said interlock relay and thereby condition said apparatus for another vending operation and to break said instantaneous circuit.

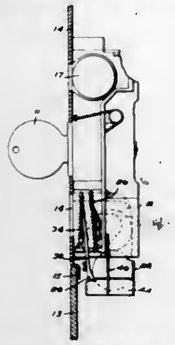
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**2,649,948**
**VENDING MACHINE**
**Chester W. Tawney, Salvatore J. Demarco, Jr., and Pat H. Herrick, Baltimore, Md., assignors to Products Manufacturing Co., Inc., a corporation of Maryland**
**Application September 7, 1949, Serial No. 114,415**
**5 Claims. (Cl. 194—85)**



1. A dispensing machine operable by coin manipulation, comprising in combination, a housing, a tablet magazine rotatable in said housing, said magazine being arranged to store a plurality of tablets disposed in individual units one above the other and in columns arcuately positioned within the magazine and deliverable in single units at the bottom, a shelf extending into the magazine on which the tablets can slidably rotate and arranged to allow each column of tablets to align consecutively therewith and release a unit therefrom individually at a time for its removal from the magazine, a coin tube within the magazine for guiding said coin therethrough, a knob rotatable on the housing and having a lateral slot for the insertion of the coin therein and an axial passage through the knob communicating with said slot for guiding the coin to the tube and to the magazine and bridging and keying the knob and magazine together whereby the further rotation of the knob will produce corresponding rotation in the magazine and bring each column selectively to said position of release, said magazine being arranged to align itself with said tube in said position and drop the coin from its bridging position into the tube, a coin box in the housing adapted to receive the coin from said tube, a delivery cup in the housing alignable also with the column in its releasing position for receiving the unit dispensed therefrom simultaneously with the dropping of the coin, and means for returning the knob to its normal position on the housing ready for the next coin to be inserted, without moving said magazine during said return, and a plate in the housing on which the magazine rests including an opening therein for the unit to drop through, means operating in the housing adjacent said shelf for leaving the opening through which the unit may fall to the cup open as long as there are tablet units in the magazine to press it open.

**2,649,949**
**COIN-CONTROLLED LOCK MECHANISM**
**Wells Stackhouse, Havertown, Pa., assignor to American Locker Company, Inc., Boston, Mass., a corporation of Delaware**
**Application January 19, 1951, Serial No. 206,840**
**2 Claims. (Cl. 194—92)**

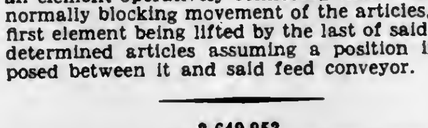


1. A coin controlled lock, comprising a locking bolt mounted for movement to and from locking and released positions, means normally restricting the bolt to limited movement from one of said positions, means providing a coin receiving channel in the lock, means providing a coin deposit chute in vertical alignment with and beneath the channel and a coin return chute laterally adjacent to said deposit chute, a coin deflecting member disposed between said channel and chutes, means at the bottom end of the channel normally biased to intercept and hold a coin in the channel, means controlled by movement of the bolt within the limited movement including a feeler movable to engage a coin in the channel above and supported by the first named coin for rendering the bolt retaining means inoperative when a coin is present in the channel in the path of movement of the feeler, means actuated by movement of said feeler beyond coin engaging position for moving said member to deflect the first named coin from the position retained by said intercepting means and into the return chute when no coin is present in the channel at said path and the bolt is given said limited movement toward the other position, and means controlled by movement of the bolt beyond its limited movement for withdrawing said coin intercepting and holding means and permitting the coins to drop from the channel into the coin deposit chute when said first and second named coins are present in the channel and the bolt is moved from said one position to the other position.

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**2,649,950**
**APPLIANCE ON TYPEWRITING, CALCULATING, OR BOOKKEEPING MACHINES FOR POSITIONING AND ADJUSTING A TOP SHEET IN FRONT OF ONE OR MORE BASIC SHEETS**
**Karl Endrich, Zollikon, near Zurich, Switzerland**
**Application April 5, 1950, Serial No. 154,012**
**In Switzerland April 14, 1949**
**4 Claims. (Cl. 197—127)**

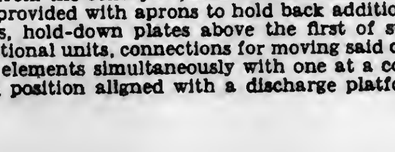
1. An appliance on typewriting, calculating or bookkeeping machines for positioning and adjusting a top sheet in front of one or more basic sheets present in the machine, said appliance comprising members for punching a hole in each top sheet after an entry has been recorded, said hole serving as setting means for the next entry, a feeler pin automatically fitting into said hole for the insertion of a top sheet thereby holding the top sheet at the required line height, paper guiding means for the top sheet,



and guides for the lateral edges of the top sheet, said members, feeler pin and guides being displaceable and adjustable along said paper guiding means for the top sheet.

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**2,649,951**
**ARTICLE FEED CONTROLLER**
**Oscar Sandberg, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana**
**Application May 20, 1950, Serial No. 163,259**
**5 Claims. (Cl. 198—21)**

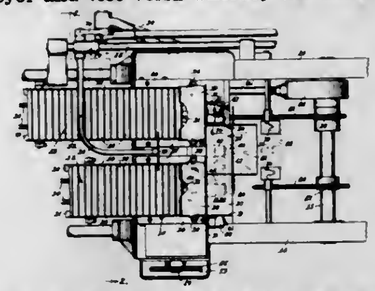


1. A feed controller of the character disclosed comprising a feed conveyor adapted to feed articles to an intake conveyor of a wrapping machine and to slip under the articles after the foremost one enters the intake conveyor, means to effect a back-up movement of said feed conveyor after said foremost article is fully entered into the intake conveyor so that the intake conveyor may move the article received therein out of alignment with said feed conveyor without said article being engaged by additional articles on said feed conveyor, and means to hold said articles from being fed by said feed conveyor into the intake conveyor until a predetermined number of articles are in a predetermined position on said feed conveyor and after the machine has been supplied with said predetermined number of articles in said predetermined position on said feed conveyor, said last means including an element normally riding said feed conveyor and an element operatively connected therewith and normally blocking movement of the articles, said first element being lifted by the last of said predetermined articles assuming a position interposed between it and said feed conveyor.

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**2,649,952**
**PRODUCT TRANSFER MECHANISM**
**Earl Joseph Rapp, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana**
**Application January 28, 1952, Serial No. 268,471**
**10 Claims. (Cl. 198—24)**

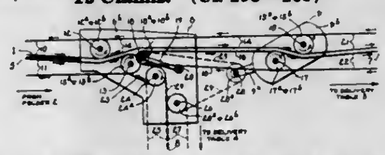
1. In a product transferring mechanism of the character disclosed, a pair of intake conveyors having discharge ends coincident with each other, said conveyors being arranged side-by-side, a carrier element at the forward end of each of said conveyors and adapted to receive units of product from the conveyors, said carrier elements being provided with aprons to hold back additional units, hold-down plates above the first of such additional units, connections for moving said carrier elements simultaneously with one at a common position aligned with a discharge platform when the other is aligned with its respective conveyor and vice-versa whereby the units from



both conveyors may be alternately discharged at the same level, and a pusher for effecting such discharge.

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**2,649,953**
**SWITCHING TYPE CONVEYER**
**Kenneth H. Hansen, White Plains, N. Y., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware**
**Application March 13, 1947, Serial No. 734,373**
**13 Claims. (Cl. 198—165)**



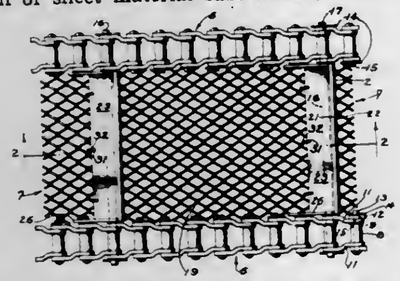
4. The combination with a plurality of conveyor sections of the pulley and belt type and comprising a driven first section and second and third sections to be placed selectively in series relation with said first section and to derive therefrom driving power, each of said sections having belts to receive and grip therebetween the articles to be conveyed, of switching means of the pulley and belt type to place said conveyor sections in the aforementioned relations selectively, said switching means comprising pulley shafts for said first, second and third conveyor sections, an adjustably supported pulley shaft and divertible belts all having running engagement with pulleys on the last mentioned shaft, and certain of said divertible belts having running engagement with a pulley shaft of said second section while other of the same have running engagement with a pulley shaft of said third section, and commutatable driving connections to transmit to the two last mentioned shafts selectively driving power from a shaft of said first conveyor section, each of said divertible belts having an active and inactive position and in active position serving as an extension belt for its respective conveyor section while said switching means also affords for said conveyor sections extension belts with which said divertible belts coact to grip conveyed articles during transfer from one conveyor section to another.

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**2,649,954**
**FLIGHT MEMBER AND MOUNTING THEREFOR**
**Rollie B. Nawman, Oakland, Calif., assignor to Benner-Nawman, Inc., Oakland, Calif., a corporation of California**
**Application August 31, 1949, Serial No. 113,464**
**9 Claims. (Cl. 198—198)**

1. In a conveyor including a drive chain comprising a plurality of link elements relatively

interconnected pivotally by pintle members and a load bearing web member extending along and operative with said drive chain, a flight member overlying said web member and rising therefrom, said flight member comprising a facial section of sheet material substantially perpendicular to said web member and having an angularly related wing member extending adjacent a longitudinal portion of said drive chain, and means including at least a pintle member carried by said drive chain and extending through said wing member for connecting the flight member with and to be supported by said drive chain.



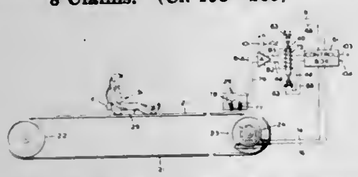
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**2,649,955**

**CONVEYER BELT CONTROL**

**Roger M. Buckeridge, Downers Grove, and William E. Goodman, Chicago, Ill., assignors to Goodman Manufacturing Company, Chicago, Ill., a corporation of Delaware**

**Application September 18, 1951, Serial No. 247,092**
**8 Claims. (Cl. 198—203)**



1. In a mine conveyor belt control system, an electrically conductive endless belt, a motor operably coupled to drive said belt, a portable signal generator comprising a housing suitably compact for carrying by a miner, said housing containing a transformer including a split primary coil and a secondary coil, battery means, vibrating relay means and connections for alternately exciting said primary in opposite directions to generate an alternating current signal in said secondary, switch means controlling the excitation of said primary by, said battery means, said housing having a transmitting element at the bottom thereof connected with said secondary and adapted to be placed in coupled relation with said belt when the housing is disposed proximate thereto for transmitting said signal into said belt, a signal receiver coupled with said belt at a fixed position therealong, an amplifier for said signal, and control means between the amplifier and motor for controlling the operation of the latter in response to a received signal.

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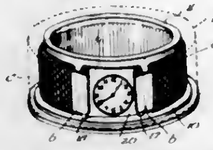
**2,649,956**

**DISPLAY CASE FOR WRIST-WATCH BANDS**

**Leroy H. Knibb, Chicago, Ill.**

**Application March 24, 1949, Serial No. 83,245**
**1 Claim. (Cl. 206—45.14)**

A display case for an elastic wrist-watch band provided with end clips having hooks, comprising: a transparent holder including an annular upstanding wall and an integral base projecting outwardly from the lower end of said wall, a pair of fixed vertical elements on said wall, removably engaged by the hooks on the clips on the band, spaced circumferentially around said wall for holding the band stretched with the clips against said elements, a card extending between said elements and having end flanges engaged by the hooks on the clips, whereby the card will be secured on the outer face of the upstanding wall on the holder, with the ends of the card held by the clips, and a transparent cover including annular top and side walls.



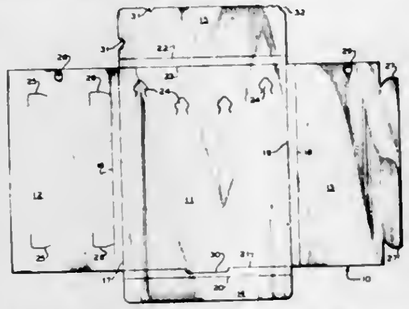
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**2,649,957**

**COMBINED CONTAINER AND DISPLAY RACK**

**Joseph M. Gapstur, Ashland, Ohio**

**Application November 14, 1949, Serial No. 126,980**
**1 Claim. (Cl. 206—45.14)**



A container and display stand structure of flexible sheet material comprising a front panel for supporting articles for packaging and display, a first rear panel hingedly connected to one side edge of said front panel, a second rear panel hingedly connected to the other side edge of said front panel, each of said rear panels being substantially narrower than said front panel and being at least more than half the width of said front panel, a top panel hingedly connected to the top of said front panel, a bottom panel hingedly connected to the bottom of said front panel, said front panel including an integral tab extending centrally beyond the bottom edge of said front panel and formed by cutting material from said bottom panel before said bottom panel is folded, top and bottom tab means at the free edge of said second rear panel for attachment to the first rear panel for securing the panels together for use as a container and a display stand, the first rear panel having a first top and bottom slots at its free edge for cooperation with the top and bottom tab means on said second rear panel for retaining the rear panels in approximately parallel relation to said front panel for service as a container, said first rear panel having second top and bottom slots adjacent its hinge line and spaced from said first top and bottom slots for cooperation with said top and bottom tab means of said second rear panel for maintaining said rear panels in chordal relation with respect to said front panel thereby arching said front panel for service as a display stand allowing a view of the articles positioned thereon from several directions, said integral tab of said front panel projecting beyond the bottom edge of said front panel as a leg for tilting the structure rearwardly when used as a display stand and when said containers are stacked said integral tab projects outwardly from the bottom edge as a handle for removing the container from a stack.



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**2,649,958**

**FRAGILE ARTICLE PACKAGED IN POPPED CORN**

**Albert R. Rausch, East Greenbush, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware**

**Application August 10, 1950, Serial No. 178,624**
**3 Claims. (Cl. 206—46)**



1. A package, comprising an outer container, and a frangible article within said outer container substantially surrounded by popped corn in firmly packed condition and holding said article in spaced relation to the inner walls of said container.

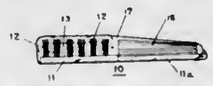
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**2,649,959**

**TOOTHBRUSH PACKAGE**

**Edward M. Hallahan, Philadelphia, Pa.**

**Application December 29, 1950, Serial No. 203,315**
**1 Claim. (Cl. 206—47)**



A toothbrush package adapted to be used once and then discarded, which comprises an abbreviated toothbrush having a head portion provided with tufts of bristles, a mass of dried toothpaste between and adhering to said bristles and a wrapper surrounding the toothbrush, bristles and toothpaste for maintaining the same in a sterile condition, said package also containing a folded drinking cup supported on the handle portion of said toothbrush and being located entirely within said wrapper.

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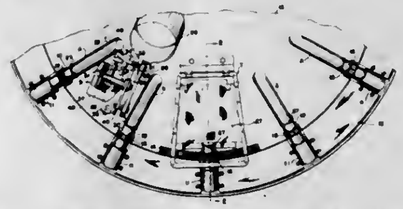
**2,649,960**

**APPARATUS FOR TESTING AND SORTING THIN RUBBER ARTICLES**

**John R. Gammeter, Akron, Ohio**

**Application June 10, 1949, Serial No. 98,332**
**5 Claims. (Cl. 209—81)**

1. Apparatus for testing thin rubber-like articles of dielectric material for defects, comprising an elongated electro-conductive form of generally cylindrical cross-sectional shape and having an outer end portion on which form the article may be received in distended condition, relatively fixed supporting means including a relatively rigid backing member, a resiliently depressible pad of soft spongy elastic material mounted on said backing member and presenting a face of broad lateral area freely outwardly, the outer surface portion of said face constituting a relatively thin layer of flaccid electro-conductive material, the pad being relatively thick and the layer being highly flexible so that the same is conformable to substantial depth with the spongy material of the pad under edgewise pressure of said form to embrace and contact a substantial radial depth of the form and contact said end portion, conveyor means for rolling said form across said surface portion of said pad and applying said edgewise pressure of the form against the pad and thereby yieldingly to depress said pad and conform said electro-conductive layer to a substantial proportion of the surface area of an article on the form, means for maintaining electrical potential between said form and electro-conductive layer sufficient to leap an air gap through the wall of the article, or to pierce an article of less than predeterminately normal thickness, and responsive means for manifesting passage of electrical current between said form and said electro-conductive layer.



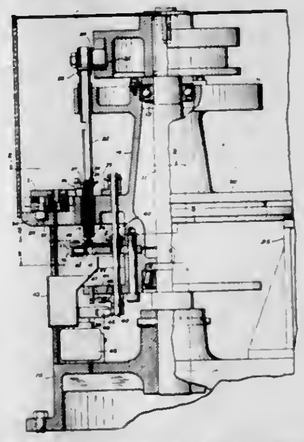
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**2,649,961**

**GAUGING AND ASSORTING DEVICE**

**Warren S. Reynolds, Westport, Conn., and John R. Turner, Glen Mills, Pa., assignors to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware**

**Application July 19, 1951, Serial No. 237,562**
**8 Claims. (Cl. 209—88)**

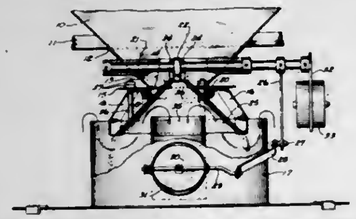


1. Apparatus for gauging and assorting workpieces in accordance with a dimension of a component thereof, said apparatus including in

combination, a chain conveyor disposed in a horizontal plane, spaced individual workpiece carrying receptacles, carried by said conveyor, a continuously rotating turret traversed by said conveyor, a plurality of inspection atations on said turret arranged for alignment with receptacles on a reach of said conveyor traversing said turret, movable trap plates on said turret at each of said inspection stations beneath the bases of workpieces carried in said receptacles, the upper surface of each of said trap plates lying in a common horizontal plane, which plane establishes a common reference point for gauging said workpieces, a reciprocable gauge finger on said turret at each of said inspection stations, an operator arranged to advance each of said fingers in turn to contact the component to be gauged, a detector on said turret at each of said inspection stations, common means for moving each of said detectors in turn to engage its associated gauge finger when said finger is in an abnormal position with respect to said reference level, and means controlled by the engagement of a detector with its gauge finger for withdrawing the associated trap plate from supporting relation to said workpiece.

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**2,649,962**
**AERATOR**
**Richard Ruemelin, Milwaukee, Wis.**
**Application January 14, 1949, Serial No. 70,969**
**1 Claim. (Cl. 209—136)**



In an aerator, a material receptacle having a bottom opening, a conical closure and regulating valve member mounted for movement toward and away from sealing relationship with said opening with the base of the valve member located below the opening whereby when the valve is lowered material falling by gravity from said receptacle will be directed in the form of a conical sheet by the external surface of said valve member, means including an exhaust conduit for subjecting said sheet to the action of gaseous currents, a valve in said exhaust conduit, and common manually operated mechanism for controlling the opening of said exhaust conduit valve and the lowering of said conical valve simultaneously.

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**2,649,963**
**APPARATUS FOR CONTINUOUSLY SEPARATING SOLIDS IN OR FROM LIQUID SUSPENSIONS THEREOF**
**Freerk J. Fontein, Heerlen, Netherlands, assignor to Stamicarbon N. V., Heerlen, Netherlands**
**Application February 4, 1949, Serial No. 74,644**
**In the Netherlands February 16, 1948**
**4 Claims. (Cl. 209—211)**

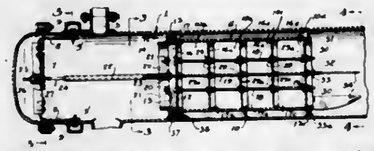
1. Apparatus for continuously separating solids in and from a liquid suspension thereof, comprising a circular tank including at least one end wall, the tank being provided with a tangentially disposed inlet aperture positioned adjacent said end wall, said end wall being provided with a centrally positioned circular discharge aperture, the opposite end portion of the tank being provided with a second circular discharge aperture in axial alignment with the first mentioned discharge aperture, a resilient annular member positioned at the second discharge aperture so that the inner periphery of said member will define the circular bounding wall of the second discharge aperture of said tank, a reservoir to receive the discharge from the last mentioned aperture, said reservoir including a bottom outlet of insufficient capacity to pass the



material discharged therein from said circular tank and said reservoir also including an overflow, a receptacle positioned below the bottom outlet of said reservoir, a pair of receiving tanks positioned below said receptacle, means connecting one of said receiving tanks to a point of use of the suspension, means for connecting the other of said receiving tanks to the inlet of said circular tank, and means responsive to the density of the material in said reservoir to selectively connect the bottom outlet of said reservoir and one of said receiving tanks and to contract the inner periphery of said annular member.

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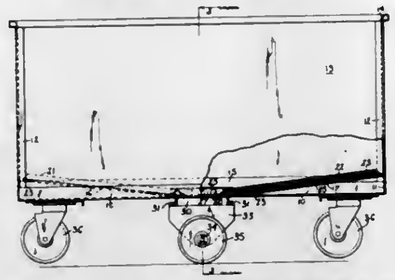
**2,649,964**
**LIQUID DISPERSION SEPARATING DEVICE**
**Charles S. Taylor, Los Angeles, Calif.**
**Application June 27, 1949, Serial No. 101,620**
**12 Claims. (Cl. 210—135)**



1. A phase separator for liquid containing a plurality of phases which comprises a chamber, an inlet to said chamber, an outlet from said chamber, a plurality of contiguous compartments positioned in said chamber between the said inlet and outlet, perforate partitions between said compartments, means for holding said partitions in a predetermined position in said chamber and against displacement in the direction of said outlet, liquid passageways in said partitions, a resilient particulate bed filling each of said compartments between said partitions, said beds in said compartments being adjacent each other forming a substantially continuous resilient particulate bed in said separator.



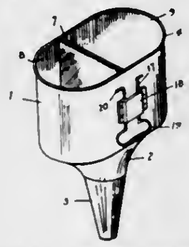
**2,649,965**
**DYE-HOUSE TRUCK**
**John P. King and Henry T. Fitting, North Haven, Conn., assignors to The Alfred B. King Company, New Haven, Conn., a corporation of Connecticut**
**Application December 14, 1949, Serial No. 132,898**
**2 Claims. (Cl. 210—149)**



1. A conditioning truck comprising a wheeled frame, a tank supported thereon having a bottom and upstanding sides, the bottom comprising a central section and two end sections, said central section being of triangular shape with its base extending along one side of the tank and sloping downwardly toward the opposite side; each of said end sections being of triangular shape with its base extending along an end of the tank and sloping downwardly toward the central portion thereof to form a valley at the junction with the center section, said valleys sloping downwardly toward and converging adjacent the lower edge portion of one of said tank sides and centrally thereof, means providing an opening at the convergence of said valleys, inverted trough-shaped cover members over said valleys, said trough-shaped members being supported in a position with their lower edges spaced from the bottom sections of the tank, a shield over said opening, said shield being of inverted channel shape in form and being open at its ends to receive the ends of the cover members therethrough, and means providing drain openings in the side flanges of said shield.

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**2,649,966**
**FUEL DEHYDRATING AND STRAINING FUNNEL WITH LEG SUPPORTS**
**Thomas Johnston, Drumheller, Alberta, Canada**
**Application December 13, 1950, Serial No. 200,523**
**In Canada April 8, 1950**
**1 Claim. (Cl. 210—155)**



A funnel of the character described, comprising a body having a reduced discharge bottom aperture, a discharge spout leading from said bottom aperture, an upright partition dividing the body into a dehydrating compartment on the one side thereof and a conventional fuel filling compartment on the other side thereof, both said compartments discharging into and through said bottom apertured body and said discharge spout for filling purposes, a water-separating and dirt-filtering-out porous bag removably suspended within said dehydrating compartment from the upper edges of said partition and that part of the body bounding said dehydrating compartment, a spring releasably securing said bag in said dehydrating compartment, a mesh screen in the upper end of said spout for screening liquid passing from one or both of said compartments therethrough, float means suspended within the funnel including a buoyant member depending from a slidable rod integral therewith and supported in brackets on said partition to indicate a sufficiency of fuel passed through, and a pair of retractable side legs attached to the outside of the said body to support it on a receptacle to be filled.

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**2,649,967**
**ICE CUBE PITCHER GATE**
**Homer C. Tyson, Bethany, Ohio**
**Application April 21, 1950, Serial No. 157,289**
**2 Claims. (Cl. 210—163.5)**



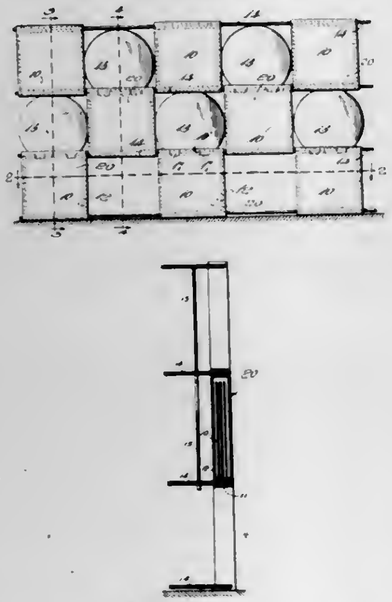
1. In an ice cube retaining gate, the combination which comprises a straight wire having horizontally disposed coils at the ends, U-shaped sections extended from the coils and inverted U-shaped clips extended from the U-shaped sections, a plurality of individual tines positioned on the wire with coils wrapped around the wire at the upper ends of the tines, and spacers positioned on the wire between the coils of the tines.

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**2,649,968**
**DISPLAY RACK FOR PHONOGRAPH RECORDS AND THE LIKE**
**Frederick H. Rice, Van Nuys, Calif., assignor to Capitol Records, Inc., Hollywood, Calif., a corporation of California**
**Application July 27, 1950, Serial No. 176,230**
**1 Claim. (Cl. 211—1)**

A display and storage device comprising elongated strips of sheet material disposed horizontally in vertical spaced relation to each other, each strip having opposite side edges formed with oppositely disposed notches and dividing the strip into longitudinally extending sections, said sections being each formed with longitudinally extending slits located midway the width of the strip and spaced from each other longitudinally thereof, the said notches being of an even depth and having their inner ends spaced from a center line of the strip along which the slits are formed, containers disposed upright between the strips and spaced from each other longitudinally thereof and each having a body corresponding in length to the length of a section of a strip section and formed with marginal walls in face-to-face engagement with confronting surfaces of the strips and a cover for the container having marginal walls overlapping surfaces of the strips and fitting into the notches and together with the said walls of the container frictionally grip-

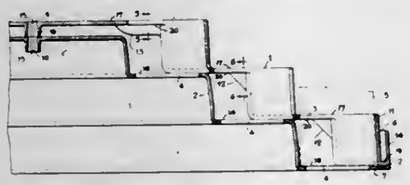
ping the strip, and upright discs disposed between said containers in offset relation thereto and



having depending supporting tongues passing through the slits.

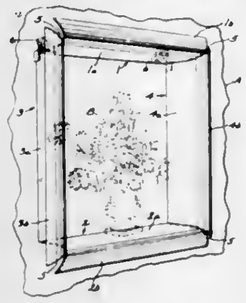
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**2,649,969**
**DISPLAY STAND**
**Fred W. Andrews, Dover, Del., assignor to International Latex Corporation, Dover, Del., a corporation of Delaware**
**Application July 12, 1950, Serial No. 173,410**
**3 Claims. (Cl. 211—71)**



1. A display stand comprising a first member having a plurality of re-entrant tiers of different sizes spaced above each other, each tier having upper and lower faces and at least one aperture therein extending therethrough, and a second member having a plurality of reentrant tiers of sizes corresponding with the tiers of said first member and spaced above each other, said tiers of said second member having upper faces which are substantially parallel with the upper faces of the tiers of corresponding size of said first member and said second member being mounted beneath said first member with all said tiers of the second member beneath and aligned with the tiers of corresponding size of said first member in a direction perpendicular to the upper faces of said tiers and the upper faces of the tiers of said second member being spaced in said direction from the lower faces of the tiers of corresponding size of said first member.

**2,649,970**
**DISPLAY DEVICE**
**Ethel E. Broz, Euclid, Ohio**
**Application September 10, 1948, Serial No. 48,709**
**1 Claim. (Cl. 211—90)**



A display device consisting of a rectangular frame open at the back and front and with its four sides formed of a single integral strip of substantially transparent plastic material of uniform thickness and having a flat rear portion disposed substantially at right angles to the plane of the rear edges of the frame and a front portion curving forwardly and outwardly from the rear portion, the curved portion being interrupted at the four corners of the frame to form outwardly widening openings and the flat portion of one side of the frame, when horizontally disposed at the bottom of the frame, serving as a shelf for supporting objects to be displayed.

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**2,649,971**
**EXTENSIBLE TOWEL BAR**
**Adolph Marchand, Jackson Heights, N. Y.**
**Application November 26, 1949, Serial No. 129,669**
**1 Claim. (Cl. 211—123)**



An extensible rack adapted as a towel bar comprising a central tubular member, a guide block interiorly disposed in said central member and removably secured thereto, said guide block having a pair of open end slots in a linear plane, a pair of longitudinal slotted stop bars disposed in said open slots, each stop bar having end flanges disposed in the same direction, said stop bars being in sliding engagement with each other on their non-flanged surface, a flanged cap plate having a screw hole therein and adapted to receive a screw, which screw traverses the slots of both of said stop bars and secures the central tubular member, the guide block, and the cap plate to one another as well as securing the longitudinal stop bars in sliding contact, a spiral spring disposed about each of said stop bars and bearing against the respective exterior sides of the guide block and inside the central tubular member, end bar members disposed inside each end of the central member having their interiorly disposed ends in contact with said spiral springs, and plate means for securing the end bar members to an exterior flange respectively of each of said stop bars.



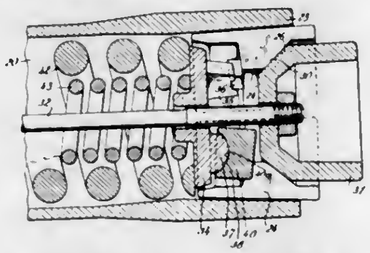
**2,649,972**
**DISPLAY STAND**
**Burt Weil, Cincinnati, Ohio**
**Application December 7, 1950, Serial No. 199,670**
**1 Claim. (Cl. 211—147)**



In an adjustable stand, a main frame comprising spaced parallel side members, means for supporting said frame in a substantially vertical position, a shelf mounted on said side members and projecting forwardly therefrom, said shelf comprising a bowable semi-rigid flexible plate member, a pair of supporting members carried by said shelf on opposite sides thereof each adjacent one of said parallel members, each supporting member comprising a pair of spaced jaws forming a recess therebetween facing outwardly toward its adjacent parallel member and receiving its adjacent parallel member therein, the distance between the bases of the recesses being greater than the distance between the parallel frame members when the supporting members are in engagement with the frame members with the shelf upwardly bowed whereby the jaws more firmly engage the parallel members when load is applied to the shelf, said jaw members lying to the front and rear of their respective frame members so that load applied forwardly of the frame members causes tilting of the jaws to grip said frame members.

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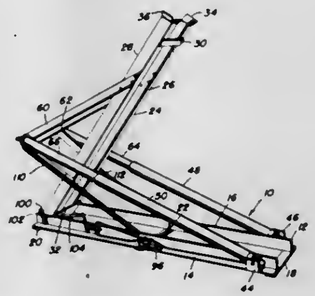
**2,649,973**
**DRAFT GEAR**
**Leverett M. Clark, Los Angeles, Calif., and Stanley H. Fillion, Scarsdale, N. Y., assignors to Waugh Equipment Company, New York, N. Y., a corporation of Maine**
**Application March 11, 1952, Serial No. 275,998**
**10 Claims. (Cl. 213—34)**



1. A draft gear, which comprises a housing having an open end and an internal friction surface adjacent said end, at least four friction shoes arranged in a circular series in the housing and engaging the friction surface, an actuating plunger extending within the series of shoes, the plunger and shoes having co-operating wedging surfaces, spring means within the housing for resisting the inward movement of the shoes, and internal follower means interposed between and engaging the spring means and the shoes, the internal follower means including a follower in direct contact with the spring means and at least one rocker directly engaging a pair of adjacent shoes only, the follower and rocker having spherical engaging surfaces.

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**2,649,974**
**ICE STACKER**
**Lester A. Tripp, Elmhurst, Ill., assignor of one-half to John Gordon, Elmhurst, Ill.**
**Application June 21, 1948, Serial No. 34,270**
**3 Claims. (Cl. 214—1)**



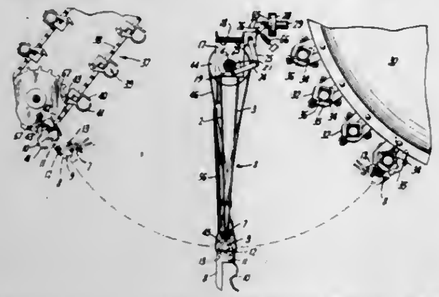
1. A material handling apparatus comprising a base, a carriage pivotally affixed to one end of the base for vertical swinging movement from a horizontal resting position on the base to a position substantially perpendicular to the base, upstanding standards on the opposing sides of the carriage and positioned adjacent to the pivoted end of the carriage, hydraulic cylinders pivotally attached to the opposing sides of the base, push rods workably mounted in the cylinders and pivotally attached to the upper ends of the standards and resilient means connected between the standards and the base for biasing the carriage relative to the base upon an exhaustion of hydraulic pressure in the cylinders, and means responsive to a predetermined vertical movement of the carriage for bleeding the cylinders to exhaust the hydraulic pressure, said last means including a pressure line for the cylinders, a relief valve in said line, a linkage system for actuating said valve and means carried by the pivoted end of the carriage operating said linkage system.

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**2,649,975**
**LAMP TRANSFER APPARATUS**
**Joseph H. Brooks, West Peabody, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts**
**Application December 29, 1949, Serial No. 135,807**
**1 Claim. (Cl. 214—1)**

Apparatus for transferring an elongated tube from a pick-up to a delivery position, said apparatus comprising: a transfer arm; a shaft on which said transfer arm is fixedly mounted; a pair of tube-gripping jaws; a shaft rotatably mounted on said arm, one of said jaws being fixedly mounted thereon, and the other of said jaws being rotatably mounted on said first-mentioned jaw; means for rotating said first-mentioned shaft to effect oscillation of the transfer arm mounted thereon between the pick-up and delivery positions; means for rotating said tube-gripping jaws, about the axis of the shaft on which one of said jaws is fixedly mounted, during the major portion of the oscillation of said trans-

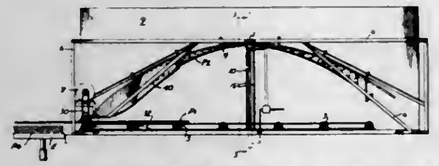
fer arm; and means for arresting the rotation of the said fixedly mounted jaw at the beginning



and the end of each oscillating stroke of said transfer arm.

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2,649,976
**SPLICED VENEER SHEET OFFBEARING MECHANISM**
**Arthur C. Carlson, Anacortes, Wash., assignor, by mesne assignments, to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington**
Application May 6, 1950, Serial No. 160,538
10 Claims. (Cl. 214—1)

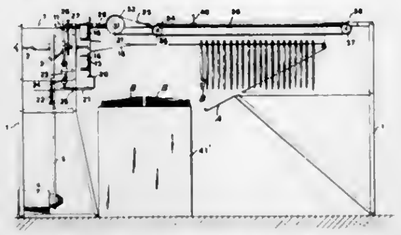


7. In combination with guide means for successive flexible sheets each of appreciable stiffness and area, which guide means is curved downwardly at each end from a central high point, means to push the sheets in succession edgewise beyond said guide means, each in longitudinally curved form, drooping at its ends, a narrow bar oriented in the direction of movement of the sheet and located, during emergence of each sheet, closely beneath the sheet's central high point, constituting the sole support for such sheet upon its emergence, sheet-receiving means vertically beneath the sheet while thus supported, defining a substantially planar support for the sheet, and means to displace said bar from beneath the sheet, leaving the sheet free to drop upon said planar support, and to return said bar to sheet-supporting position in time to receive and support the next-issuing sheet.

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2,649,977
**APPARATUS FOR STRINGING TOBACCO LEAVES**
**Arthur E. Palmer, Hartford, Conn., assignor to Wurton Machine Company, Philadelphia, Pa., a corporation of Pennsylvania**
Application April 22, 1948, Serial No. 22,596
1 Claim. (Cl. 214—5.5)

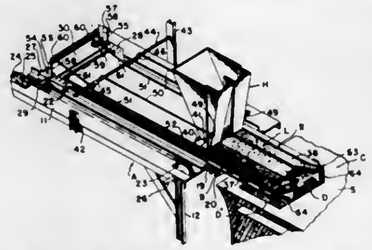
Apparatus for stringing tobacco leaves comprising a shaft, drive means adapted to rotate continuously in one direction, a pair of spaced spools each carrying a length of string, a support secured to said shaft and carrying said spools, a coil spring secured at one end to said shaft and having its other end connected to said drive means, a brake operable on said support, cam means carried by said shaft for operating the brake, said cam means being arranged to effect operation of said brake means to stop said support at 360° intervals in the revolution of said shaft and to release said brake means when



the coil spring has been substantially tensioned, means for advancing the free ends of said strings away from said support and frictional means on said support engaging said strings to resist said advancing of the strings.

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2,649,978
**BELT CHARGING APPARATUS**
**Henry Such Smith, Roselle, N. J.**
Application October 7, 1950, Serial No. 188,959
4 Claims. (Cl. 214—26)

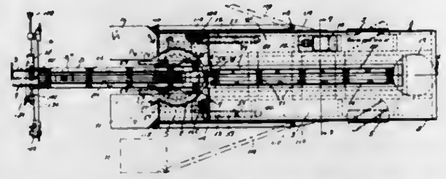


1. A belt charging apparatus for charging a layer of coal onto a furnace floor comprising a vertically movable longitudinal platform having a front end adjacent said furnace, a longitudinal frame adapted to rest on said platform and having a plurality of transverse rollers, a flexible fixed end belt circumferentially disposed about said rollers on said frame and having its ends located below the movable frame and fixed to the front end of said platform, means for pushing said frame into a furnace, and means for charging a measured amount of coal onto the top portion of said belt, whereby the layer of coal on said belt is discharged onto the furnace floor during forward movement of the frame into the furnace.

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2,649,979
**TIMBER SETTING MACHINE**
**Charles F. Ball, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania**
Application November 20, 1948, Serial No. 61,177
28 Claims. (Cl. 214—77)

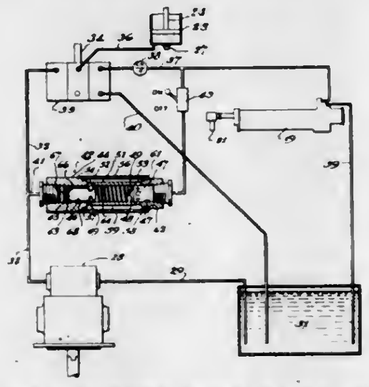
1. In a timber setting machine, a mobile base, an elevator boom pivotally mounted on said base to swing in vertical planes with respect thereto, a timber receiving saddle carried by said boom at the outer extremity of the latter, said boom being swingable about its pivot into a horizontal lowered position to locate said saddle in a timber receiving position, and a timber receiving device arranged lengthwise of said base and including an upper horizontal carrier frame disposable in a lowered position a substantial distance below said horizontal boom to receive a timber, said base providing a space extending longitudinally thereof for receiving said carrier frame when the latter is in its horizontal lowered position, and means for elevating said carrier frame into a position in longitudinal alinement with said horizontal elevator boom to position a timber carried by said carrier frame so that it may be moved endwise along said carrier frame and longitudinally along said boom onto said saddle without bodily lifting of the timber.



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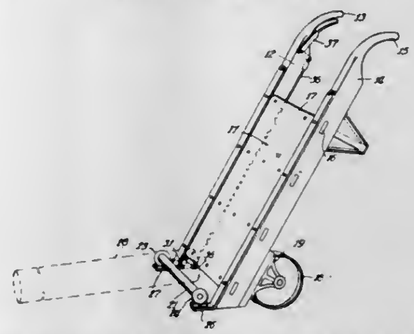


2,649,980
**MINE HAULAGE VEHICLE**
**Joseph J. Slomer, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
Application April 25, 1951, Serial No. 222,749
8 Claims. (Cl. 214—83.36)



1. In a mine haulage vehicle having a discharge section including a fluid motor for elevating said discharge section into position at a discharge station, a steering apparatus including a fluid operated booster for said steering apparatus, an hydraulic system including a pump and a control valve for supplying pressure fluid to said fluid motor and said steering booster, said control valve being normally in a position to pass pressure fluid therethrough for said steering booster and at times being operable to supply pressure fluid to said fluid motor, means for proportioning the output of pressure fluid from said pump so that sufficient pressure fluid is supplied to said steering booster comprising a branching pressure line connecting said pump to said steering booster, said means including means located in said branching line and responsive to the flow of pressure fluid from said pump for regulating the flow of pressure fluid in said branching line.

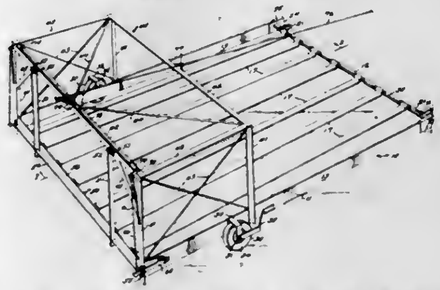
2,649,981
**HAND TRUCK**
**Noel Tessier and Nicklos Blacker, Chicago, Ill.**
Application March 13, 1951, Serial No. 215,226
1 Claim. (Cl. 214—350)



A hand truck including in combination a frame comprising a pair of spaced parallel members having handle portions and joined together by an interconnecting load supporting portion, said load supporting portion having a recessed area for retaining tubular loads in place, wheels rotatably mounted on the ends of said members opposite said handle portions, an elongated roller having a knurled surface rotatably mounted on said members on the ends thereof adjacent said wheels, said roller having a plurality of apertures spaced about the periphery thereof, and brake means for said roller comprising a pin adapted to be extended into said apertures for selectively preventing rotation of said roller, a bell crank pivotally mounted on said frame and having one of the legs thereof connected to said pin, a connecting link operatively connected to the remaining leg of said bell crank, a second bell crank pivotally mounted on the handle portion of one of said members, said second bell crank having one of the legs thereof formed as a handle grip and the remaining leg thereof operatively connected to said connecting link, and a compression spring operatively connected to said connecting link for normally biasing said pin into engagement with one of the apertures in said roller.

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2,649,982
**BALE SLED**
**Robert W. Ray, Dearborn, Mo.**
Application January 23, 1951, Serial No. 207,266
1 Claim. (Cl. 214—353)

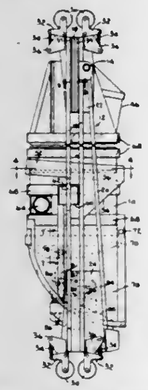


A bale carrier comprising a shallow, rectangular bed including transversely spaced side members connected at their forward ends by a cross bar which is elevated above the lower edges of

the side members, a pair of wheels mounted aft of the longitudinal center of respective side members, supporting the rear of the side members of the bed above but relatively close to the gound, a plurality of parallel slats individually hinged at their forward ends to said elevated cross bar and extending to the rear portion and forming the floor of said bed, said slats lying entirely within the vertical and rectangular confines of the bed and in sliding engagement with the ground and being transversely spaced to expose a major area of the ground beneath the bed, a forwardly open bale retaining cage overlying the rear portion of the bed and consisting of opposed rectangular side frames secured in vertical position on respective side members and connected by a rectangular horizontal top frame, a gravity closed end gate forming the rear wall of said cage, hingedly connected at its upper edge to the top frame of said cage, for free swinging movement about a horizontal axis, with respect to the rear end of said bed, a spring urged latch for normally locking said end gate in closed position and means for releasing said latch, whereby upon forward movement of the bed, a quantity of bales accumulated in said bed are progressively urged rearwardly against said gate by inter-slat contact with the ground, to force the gate outwardly upon release of said latch.

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**2,649,983**
**SKIP**
**Alexander Finlay and James W. Clark, Marquette, Mich., assignors to Lake Shore Engineering Company, Iron Mountain, Mich., a corporation of Michigan**
**Application March 26, 1951, Serial No. 217,638**
**8 Claims. (Cl. 214—707)**



1. A bottom dump skip comprising, a stringer adapted to be guided by the shaft timbers and to support a skip body, a skip body pivotally supported in said stringer adjacent its upper end to permit the bottom of the body to swing forwardly of the stringer, said body having straight interior walls and an open bottom, a door pivotally mounted at the rear of the body and adapted to seat on said bottom, and an arm pivotally connected to said stringer and to said door to actuate the door in response to the pivotal movement of the skip body relative to the stringer, said pivotal connection between the arm and the door, when the door is closed, being disposed rearwardly of an imaginary line drawn between the skip pivot and the pivotal connection between the arm with the stringer, and movable forwardly across said line as the door opens thereby to provide a toggle action for the opening and closing movements of the door as the skip swings forwardly and rearwardly on its pivot.

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**2,649,984**
**BOTTLE CONTAINING TROPHY AND BEVERAGE SHAKER**
**Edward Charles Abt, Los Angeles, Calif.**
**Application April 6, 1950, Serial No. 154,373**
**1 Claim. (Cl. 220—1)**



A bottle containing trophy and beverage shaker comprising a receptacle having a pair of inset shouldered portions at its upper end, an inverted funnel shaped member having its lower end connected by a slip joint with the upper one of said shouldered portions, the upper end of said inverted funnel shaped member being perforated, a removable cap closing said perforated upper end, a series of individually usable nested cups removably positioned on top of said cap, a second inverted cup shaped member providing a cover for said first mentioned inverted cup shaped member and with a bayonet joint between said second mentioned inverted cup shaped member and the lowermost shouldered portion of said receptacle.

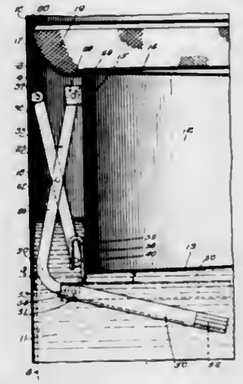
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**2,649,985**
**SEAL HANGER FOR FLOATING ROOF TANKS**
**Frederick D. Moyer, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois**
**Application May 19, 1951, Serial No. 227,188**
**8 Claims. (Cl. 220—26)**

1. In a liquid storage tank having a floating roof and one or more shoes adapted to slidably contact the inner side walls of the tank, means for supporting the shoes against the side walls including a supporting lever bar swingably attached to the upper portion of the roof, said lever bar having an angular portion, a portion extending downwardly in the space between the roof and the tank from the point of attachment to the roof to the angular portion and a weight arm portion extending inwardly from said angular portion, said weight arm portion being pivotally secured to said angular portion with stop means preventing downward movement of the weight arm relative to said angular portion beyond a predetermined amount, and a shoe bar pivotally connected at one end to the upper portion of the shoe and connected to the lower portion of the roof at the other end with a pin and slot connection permitting vertical movement



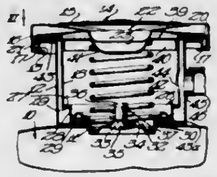
and preventing horizontal movement of said other end with respect to the roof, said shoe bar



being pivotally connected intermediate its ends to the downwardly extending portion of said lever bar and being supported thereby.

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**2,649,986**
**RADIATOR PRESSURE CAP**
**Anton W. Konchan, Berwyn, Ill.**
**Application November 15, 1949, Serial No. 127,464**
**6 Claims. (Cl. 220—44)**

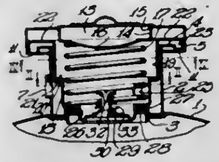


1. A cap for an internal combustion engine radiator having an open-topped elongated filling neck provided with a first aperture communicating with the interior of said radiator and a second aperture communicating with the atmosphere, comprising a housing adapted to be secured to said neck to close the same, a valve carried by said housing for telescoping movement therein, said valve having a seat portion extending beyond said housing for sealing engagement with the edge portion about said first aperture, a spring cap press-fitted within said housing in an adjusted spaced relation to said valve, a compression spring confined between said valve and said spring cap to urge said seat portion into sealing engagement, and means venting the interior of said housing to the atmosphere through said second aperture, whereby the adjusted position of said spring cap relative to said valve determines the degree of compression of said spring which in turn determines the pressure which must be generated in the interior of said radiator to vent said radiator to the atmosphere through said valve and said last mentioned means.

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**2,649,987**
**RADIATOR PRESSURE CAP**
**Anton W. Konchan, Berwyn, Ill.**
**Application March 15, 1951, Serial No. 215,794**
**1 Claim. (Cl. 220—44)**

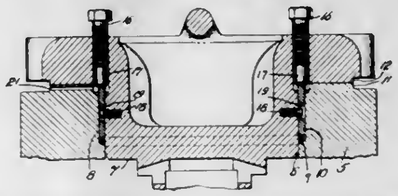
A radiator pressure cap apparatus, comprising, means providing an annular valve seat and a housing, a movable valve member in said housing consisting of an integral cup shaped stamping having an outturned edge and having first and second body portions of different sized cylindrical configurations joined by a radial annular flange, an annular sealing gasket retained on said second body portion and abutting one face of said radial flange, said second body portion extending through said annular valve seat and being closed by a radially inwardly extending



wall having formed therein an apertured conically shaped valve seat seating a complementary conical spring-biased normally-closed venting valve, and a spring in said housing bottomed against the opposite face of said flange and clamping said radial flange and said sealing gasket against said annular valve seat, whereby said movable valve member unseats to relieve excess pressures and said conical venting valve unseats to relieve negative pressures.

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**2,649,988**
**METAL-TO-METAL SEATED VALVE POT COVER WITH INDEPENDENT GASKET SEALING ADJUSTMENT**
**George E. Campbell, Chattanooga, Tenn., assignor to The Wheland Company, Chattanooga, Tenn., a corporation of Tennessee**
**Application May 11, 1951, Serial No. 225,728**
**1 Claim. (Cl. 220—46)**

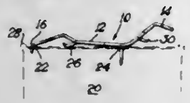


In combination, a heavy duty pump valve pot subjected alternately to high pressure and partial vacuum and a cover immovably secured against such reversal of loads and sealed independently of the securing, said valve pot having a cylindrical bore and a counterbore of larger diameter at the upper end of the cylindrical bore and open radially inwardly to the cylindrical bore, said valve pot having a cover seat on the upper end of the same about said counterbore, a one-piece cover having a flange in solid metal-to-metal engagement with said cover seat and having a dependent integral cylindrical plug portion of a diameter slightly less than the bore of the valve pot and extending down through the larger diameter counterbore into the upper end of the cylindrical bore of the valve pot, studs securing the flange of the cover in metal-to-metal seated engagement on the valve pot and stressed to hold the cover fixed against reversal of loads in the valve pot, a compressible gasket seated in the counterbore about the cylindrical plug portion of the cover and free to be compressed radially inwardly against said dependent cylindrical plug portion of the cover, a sealing ring vertically slidable over said cylindrical plug portion and slid-

able in the counterbore over the top of said gasket, a pin projecting from said cylindrical portion of the cover, said sealing ring having an opening receiving the projecting end of said pin and loosely confining the ring to said dependent cover portion and of sufficient vertical extent to permit gasket sealing adjustment of the ring when the cover is fixed in position on the valve pot, adjusting screws on the cover in line with said sealing ring and thrust plugs interposed between the ends of said screws and the top of the ring.

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**2,649,989**
**COMBINATION CAN OPENER AND CLOSURE**
**Faustino B. Urbano, Jamaica, N. Y.**
**Application January 23, 1951, Serial No. 207,356**
**1 Claim. (Cl. 220—51)**



A combination can opener and closure, comprising a bar which has a downwardly pointing punch at one end for punching a spout hole into the top wall of a can, a second downwardly pointing punch being provided on said bar a spaced distance from the first punch for punching an air hole into said top wall of the can, said bar being bent upwardly adjacent the second punch to form an elevated handle, the bend adjacent said second punch being adapted to serve as a fulcrum against said top wall of the can so that the bar may be rocked by depressing said elevated handle, whereby the first punch is swung upwardly completely out of the spout hole to open said spout hole for pouring and the second punch is swung upwardly partly out of the air hole to open said air hole for venting purposes, a stop member being provided adjacent the second punch to engage the top wall of the can and prevent said bar from rocking beyond a predetermined angle, a second stop member being provided adjacent the first punch to serve as a stop for the bar when it is rocked in the opposite direction.

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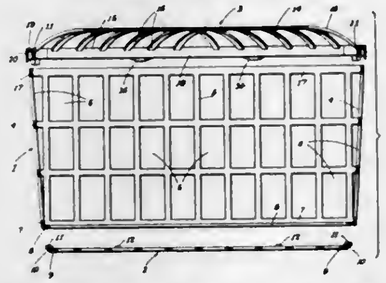
**2,649,990**
**KEY TYPE CAN OPENER AND TEAR STRIP EXTRACTOR**
**Lewis J. Lyle, Newton, Miss.**
**Application August 9, 1951, Serial No. 241,054**
**1 Claim. (Cl. 220—52)**



A key can opener, comprising a stem, a pair of spaced parallel prongs extending from an end of said stem and defining therebetween a slot for receiving the end of a strip therein, an enlarged section extending from the other end of said stem, a handle extending from said enlarged section, a holder slidably engaging said stem, a U-shaped guard extending from an end of said holder, a flange projecting from said holder and providing a guide member, a sleeve section arranged contiguous to said holder and secured thereto, said sleeve section being engaged by said enlarged section when the key is in extended position, a shoulder arranged on said stem contiguous to said prongs for engaging said sleeve section when the key is in retracted position, said sleeve section being slidable on said stem between said enlarged portion and said shoulder a distance substantially equal to the length of the slot, the free end of said guard being provided with a notch, the free ends of said prongs being shaped arcuately for selectively engaging said notch, said holder rotatably engaging said stem, said guard lying in the same plane as said stem.

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**2,649,991**
**SHIPPING BASKET AND COVER THEREFOR**
**Walter R. J. Woock, Lodi, Calif., assignor to Plastaket Manufacturing Company, Lodi, Calif., a limited partnership**
**Application September 6, 1949, Serial No. 114,176**
**1 Claim. (Cl. 220—60)**



A produce shipping basket comprising a substantially rectangular body including upstanding sides having a connecting top rim, and a cover having a border frame which includes a depending skirt to lie inwardly of the rim to locate the cover against horizontal displacement, said skirt being inwardly offset at the corners thereof forming short diagonal portions, and a top flange to rest on said top rim and from end to end thereof; and outwardly facing hooks depending from the top flange at the corners thereof and extending between said diagonal portions and the corner portions of the top rim to engage under the latter.

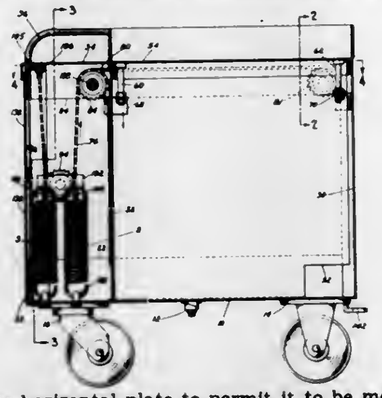
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**2,649,992**
**ARTICLE STORING AND DISPENSING APPARATUS**
**Christopher Bockius, Ridgewood, N. J., assignor to American Machine and Foundry Company, a corporation of New Jersey**
**Application March 22, 1947, Serial No. 736,479**
**4 Claims. (Cl. 220—93)**

1. Apparatus for storing, handling and dispensing material in the process of manufacture comprising, a frame having upper and lower horizontal plates, a platform movable within said frame between a position substantially in the same plane as the upper horizontal plate and the position of the lower horizontal plate, calibrated tension springs secured at one end to said frame,



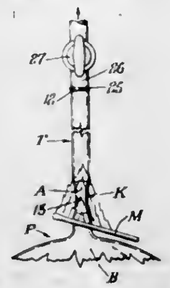
elongated flexible members having one end connected to said platform and the other end actuated by said tension springs to move said platform a distance directly proportional to the weight of the material placed on said platform, guides over which said flexible members travel, an inflexible confining guide wall surrounding said platform on all sides for laterally supporting material placed on said platform while allowing material supported thereon to have free unrestricted upward movement, the upper end portion of at least one side of the confining guide wall being pivoted on a horizontal axis to said



upper horizontal plate to permit it to be moved from a vertical to a horizontal position to facilitate the removal and placement of material on said table platform, a manually operable member secured to said apparatus for manually displacing said platform, and means interconnecting said manually operable member with said guides for manually displacing the platform whenever friction between the material on the platform and the inflexible confining guide wall interferes with the counterbalancing force exerted by the calibrated tension springs on the platform and the material supported thereon.

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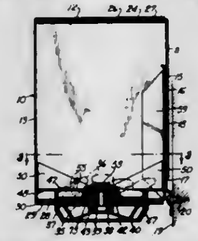
**2,649,993**
**METHOD OF EVACUATING, FILLING, SEALING, AND RELEASING GAS IN A CONTAINER**
**John N. Burdick, Kenmore, and Harvey E. Kinne, Lockport, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York**
**Application February 14, 1947, Serial No. 728,670**
**1 Claim. (Cl. 222—1)**



A method of filling, sealing and discharging rare gas in a glass bulb having integrally connected thereto one end of a single glass tube constituting both a gas-filling and a gas-withdrawal passage and having a contracted portion outside said bulb providing an internal constriction in said tube, said method comprising inserting, through the other end of said tube and adjacent said constriction, a slug or fusible sealing metal having a lower fusion temperature and a higher thermal coefficient of expansion and contraction than the glass of said tube; evacuating said bulb through said tube; filling rare gas through said tube into such evacuated bulb; sealing said tube and such filled bulb by applying sufficient heat to the outside of the contracted portion of said tube to transfer heat to and fuse said slug while holding said tube substantially vertical, to cause fused portions of said slug to flow by gravity into sealing engagement with the internal annular surface of the narrowest part of said constriction and also into sealing engagement with the internal annular surface portions of said tube adjacent the opposite ends of said narrowest part; connecting said other end of such sealed tube to a rare gas receiver and evacuating contaminating gas from the passage between such sealed constriction and said receiver, and unsealing said tube and releasing the rare gas in said bulb through said tube into said receiver by applying, to the outside of the contracted portion of said tube, heat that is insufficient to fuse said tube but is sufficient to fuse at least those portions of the sealing metal which engage the several internal surface portions of said tube at and adjacent said constriction.

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**2,649,994**
**TABLET DISPENSER**
**Howard B. Lewis, Glen M. Larson, and Howard Field, Jr., Los Angeles, Calif.**
**Application April 25, 1949, Serial No. 89,434**
**6 Claims. (Cl. 222—9)**



1. In a dispenser for such objects as tablets, the combination of: a magazine adapted to contain a supply of the objects to be dispensed and provided with a discharge opening for the objects; a dispensing element disposed in and movable relative to said magazine, said dispensing element being provided with a stall which is adapted to receive one of the objects and which is movable into registry with said discharge opening in said magazine during movement of said dispensing element relative to said magazine; means accessible from without said magazine and connected to said dispensing element for actuating said dispensing element; a generally dish-like, upwardly concave guide in said magazine adjacent said dispensing element, said guide being spaced from said dispensing element a distance less than the minimum dimension of the objects to be dispensed to prevent passage of the objects between said guide and said dispensing element, and said guide sloping downwardly toward said dispensing element so as to convey the objects downwardly thereto and being provided

with a feed opening therethrough, said stall being disposed to register with said feed opening in said guide to receive an object therefrom; and a flexible and resilient guard adjacent said dispensing element for closing said stall when it is in registry with said discharge opening so as to prevent the discharge of more than one of the objects at a time, said guard yielding if one of the objects is misaligned in said stall during movement of said stall into registry with said discharge opening so as to prevent damage to such misaligned object.

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**2,649,995**
**DISPENSING CONTAINER WITH DISPLACEABLE BOTTOM**
**Nathan Muskin, Omaha, Nebr.**
**Application September 11, 1948, Serial No. 48,854**
**1 Claim. (Cl. 222—105)**

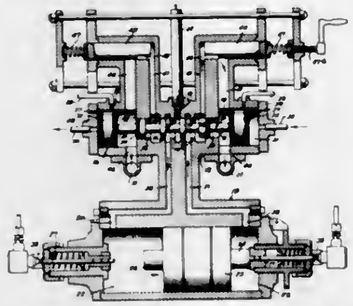


A dispensing container comprising a unitary body structure having a discharge opening at its upper end, said body structure comprising a stiff top and stiff side walls extending from the top downwardly to substantially the bottom limits of the container, the top and side walls enclosing a space that is open at its lower end and that is of generally uniform cross section throughout its height, and a bottom wall having a central displaceable portion within the confines of the stiff side walls and substantially filling the entire horizontal cross section of the space between the side walls, the central portion being exposed through the open lower end of the unitary body structure so that said central portion can be pushed up manually to force the contents of the container out through the discharge opening, the bottom wall having also edge portions integrally connected at their upper ends to the central portion adjacent to the edges of the central portion and secured at their lower ends to the lower ends of the side walls below the central portion, said edge portions being collapsed into folds below the edges of the central portion when the container is full, and said edge portions of the bottom wall being made of soft pliant material that pulls out of its collapsed condition into extended positions in which they are immediately adjacent to the inside faces of the side walls throughout substantially the entire height of the side walls, and said edge portions being of sufficient length to provide movement of the central portion of the bottom wall to a position immediately below the top, in which position substantially all of the contents of the containers are displaced out through the discharge opening to empty the container.

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**2,649,996**
**VALVE AND SUCTION CUTOFF MECHANISM**
**Bertie S. Harrington, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois**
**Application April 26, 1950, Serial No. 158,306**
**9 Claims. (Cl. 222—108)**

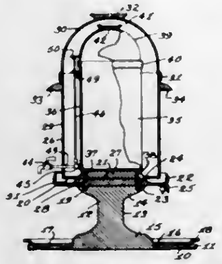
1. In a filling device having a pair of spaced discharge conduits and passages for supplying material under pressure to said discharge conduits, a valve housing providing a central chamber for the connecting of said conduits, a spool valve mounted in said chamber and provided with valve means for closing and opening said passages, said housing also providing valve chambers at the ends of said valve, each of said chambers being interposed in one of said discharge conduits, a piston substantially filling one end portion of each chamber, said housing providing at the inner side of each chamber a recess of reduced diameter adapted to receive



a reduced portion of the valve, means for reciprocating said pistons and thereby said valve, whereby when said valve is moved in one direction, one of said chambers is reduced in size while the other of said chambers is enlarged and when moved in the other direction, the opposite chambers, respectively, are reduced and enlarged, and means for alternately closing and opening the conduit at the inner end of each chamber.

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**2,649,997**
**COMBINATION SERVING STAND AND BEVERAGE DISPENSER**
**George W. Klenk, Eugene, Oreg.**
**Application August 31, 1951, Serial No. 244,570**
**6 Claims. (Cl. 222—108)**



1. A beverage dispenser comprising a base including a base plate of circular shape and having a marginal rim and a stem having a lower end engaged on said base plate centrally of the latter and having an upper end provided with a concentrically disposed circular groove therein, an element on the upper end of the stem formed with a circular groove, an outer receptacle mounted on said element and including a bottom wall provided on the under surface thereof with a circular ridge received in the groove in said element and in its upper surface with a circular groove disposed substantially concentrically of said bottom wall, a side wall rising from said bottom wall marginally of the latter, cover mounted on the upper end of said side wall, an inner receptacle disposed within and circumferentially spaced from said outer receptacle and including a bottom wall provided on its under surface with a circular



ridge received in the groove in the bottom wall of said outer receptacle, a side wall rising from the inner receptacle bottom wall marginally of the latter, cover mounted on the upper end of the inner receptacle side wall, a conduit extending from the interior of said inner receptacle adjacent the bottom wall thereof through the side wall of said outer receptacle, and a manually operated valve on said conduit at the outer side of the side wall of said outer receptacle.

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**2,649,998**
**DISPENSING CONTAINER AND HOLDER FOR SOAP CONTAINING BOXES AND THE LIKE**
**Geraldine V. Pelton, Miami, Fla.**
**Application November 27, 1950, Serial No. 197,811**
**2 Claims. (Cl. 222—183)**

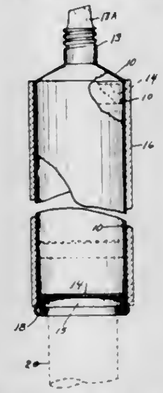


1. A dispensing holder for boxes of powdered or flaked laundry soap or the like, which soap boxes conventionally have a discharge opening at the front top corner thereof, said dispensing holder comprising a portable thin-walled container generally shaped and dimensioned to conform to the shape of the soap box it is to receive, said container having front, back, side and bottom walls and being open at its top, the front wall of the container having a cut-out at its top opposite the discharge opening of said soap box, a slidable closure for the open top of said container, the two container side walls having parallel grooves in their inner surfaces opening from the front of said container at the site of said front wall cut-out and terminating at said back wall, a lineally coextensive tongue extension at each side of said closure and received in the adjacent side wall groove whereby to retain said closure in relatively slidable assembly with said container, and a depending soap deflecting projection at the forward end of said closure and shaped to conform to the size and shape of said front wall cut-out whereby to fill the same when the closure is slid to its rearward limit to fully close the top of said container, the rear end of said closure abutting said rear container wall when said soap deflecting projection is in cutout-filling position whereby to prevent deformation of said projection so that it would fail to properly seal said front wall cutout.

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**2,649,999**
**CAULKING COMPOUND TUBE**
**Donald J. Burch, Denver, Colo.**
**Application January 28, 1952, Serial No. 268,584**
**2 Claims. (Cl. 222—183)**

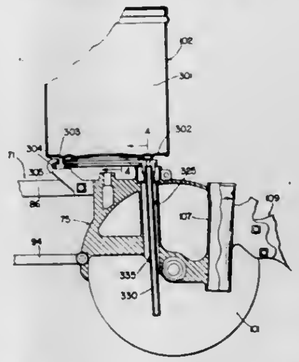
1. A caulking compound dispensing device comprising a cylindrical metal tube the material of which is comparatively thin and readily bendable, one end of the tube being open, the other end terminating in an integral tubular neck through which the material is extruded the open end of the tube having a cylindrical closure slidable therein, forming a piston for use in dispensing the material through the neck, the open end of the tube being inwardly and reversely bent whereby it forms a stop limiting the outward



movement of the end closure, and a comparatively rigid tube enclosing the metal tube to give it strength and rigidity permitting it to be employed as a caulking gun and which in addition protects the metal tube from injury and rupture.

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**2,650,000**
**PLANTER**
**Claude W. Walz, Rock Island, and Howard F. Clausen, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois**
**Original application January 24, 1946, Serial No. 643,016. Divided and this application October 6, 1947, Serial No. 778,130**
**4 Claims. (Cl. 222—185)**

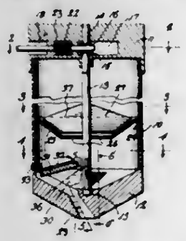


1. In a planter, a member having a generally vertical through opening with an upper section forming an enlarged chamber at the upper portion of said opening, the lower part of said chamber forming an upwardly facing shouldered section, a seed can mounted on said member and including a downwardly facing opening and a flange surrounding said downwardly facing opening, said flange having an internal diameter appreciably larger than the diameter of said downwardly facing opening, the portion of said seed can between said latter opening and said flange forming a downwardly facing shouldered section surrounded by said flange and terminating

at a point above said upwardly facing section, a seed tube disposed in said through opening, a collar fixed to the upper portion of said tube below the upper end thereof, a washer loosely disposed about said tube below said collar, both said collar and said washer being disposed in said chamber in generally vertically spaced apart relation and said washer being adapted to engage the upper face of said upwardly facing shouldered section, and a spring surrounding said tube and acting between said washer and said collar for holding the collar at the upper end of said tube seated against the lower edge of said flange and the upper end of said tube seated within said flange.

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**2,650,001**
**MUSTARD DISPENSER**
**Emile Jeunesse, New Orleans, La., assignor to Alanna R. Oliver, New Orleans, La.**
**Application June 15, 1951, Serial No. 231,707**
**2 Claims. (Cl. 222—227)**

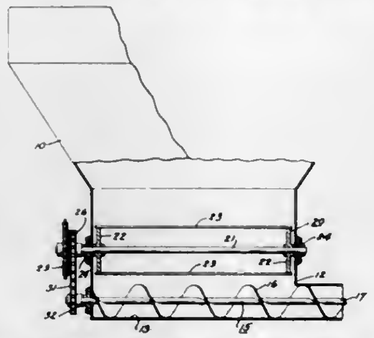


1. A device of the character described comprising a cylindrical container, a top for said container, a bottom for said container having a dispensing opening therein, a vertical shaft centrally disposed in said container and journaled in said top and bottom, agitator blades affixed to said shaft, a perforated shelf mounted upon the inner walls of said container immediately below the agitator blades, scraper blades affixed to the shaft immediately above said bottom, means operable by said scraper blades for forcing portions of the contents of said container through said dispensing opening, and means for oscillating said agitator blades and said scraper blades, said means for forcing portions of the contents from said container including a bay formed in said bottom at the upper end of said opening, a door for said bay, a spring for normally holding said door open, and guide members at each side of said door engageable beneath said scraper blades whereby to force said door into said bay.

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**2,650,002**
**APPARATUS FOR FEEDING FIBROUS MATERIAL**
**Philip Sidney Farley, Oakland, Calif., assignor to Noble Co., Oakland, Calif., a corporation of California.**
**Application July 27, 1948, Serial No. 40,906**
**1 Claim. (Cl. 222—238)**

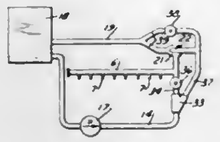
An apparatus for continuously feeding self-cohesive materials such as subdivided asbestos fibre, comprising a bin having oppositely disposed ends, at least one sloping side and a bottom, said bottom having a depending trough formed as a portion thereof and extending longitudinally of said bin, a screw conveyor rotatably mounted in said trough, bearing means in said bin for said conveyor, material supporting and feeding means rotatably mounted in said bin directly above said conveyor, bearing means on said bin for said material supporting and feeding means, said material supporting and feeding means including a shaft supported by said last mentioned bearing means and extending longitudinally of said bin, supporting wheels fixed on said shaft adjacent the inner opposite ends of said bin, a plurality of material supporting and dislodging slats fixed at their ends to said wheels, and comprising the only material supporting



means between said wheels, said slats being substantially rectangular in cross-section with their wider sides contacting said wheels to support the material temporarily suspended between said slats as the relatively narrow sides of the slats engage and loosen the self-cohesive material in the bin, to drop through the material supporting and feeding means directly into said screw conveyor, and means for simultaneously driving said screw conveyor and said material supporting and feeding means.

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**2,650,003**
**DRIP ARRESTING APPARATUS**
**Clarence Buyer Coleman, Oakland, Calif.**
**Application March 8, 1948, Serial No. 13,701**
**2 Claims. (Cl. 222—318)**

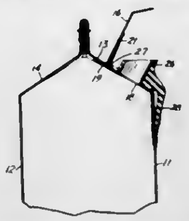


1. In a fluid spray apparatus having storage means for a liquid substance, a discharge device for said liquid including a discharge conduit associated therewith, a pump connected with and to draw liquid from said storage tank, a by-pass conduit connected to said pump, suction-establishing means in said by-pass conduit and actuated by the flow of liquid therethrough, a suction conduit connected with said suction-establishing means and in communication with said discharge conduit, a return conduit connected to said tank, means for simultaneously directing portions of said liquid into said discharge conduit and into said by-pass conduit, means including a valve member associated with said by-pass conduit for simultaneously directing portions of said liquid into said return conduit and into said suction establishing means in one position of said valve member, and for directing all of the liquid in said by-pass conduit into said suction establishing means in another position of said valve member, and valve means for preventing flow of liquid into said discharge conduit whereby said suction-establishing means will evacuate liquid from said suction conduit and said discharge device.



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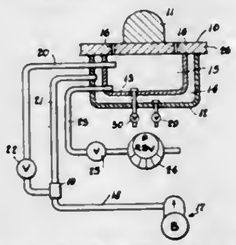
**2,650,004**
**POURING SPOUT**
**Lowell L. Smith, Rockford, Ill.**
**Application May 22, 1948, Serial No. 28,540**
**4 Claims. (Cl. 222—567)**



1. A detachable pouring device for a liquid container of the gable type having an opening disposed on one of the inclined portions forming the gable and a flap bendable outwardly to uncover the opening, comprising a pad having a flat bottom surface shaped to engage the surface of the container across the opening, a spout on said pad adapted for alignment with the opening, said pad having an abruptly beveled edge portion shaped to engage the bottom of the bendable flap when the latter is in its outward position to fixedly position said edge of the pad, and a wedge member connected to said pad on the side thereof away from the flat surface and in spaced relation thereto for wedging the flat surface against the container, said wedge member being inclined at an angle to the pad and having a portion adjacent the pad arranged to be in spaced relation to the side of the container and terminating in a thin end portion remote from the pad shaped to be inserted between contiguous members forming the side of the container, the angle between said wedge member and the pad being less than the included angle between an inclined portion of the gable and a side of the container to urge said beveled edge into engagement with the bottom of the flap and to urge said flat surface of the pad into liquid tight engagement with the container when the spout is mounted in the above described position.

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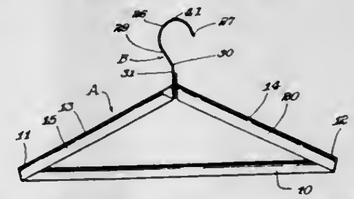
**2,650,005**
**APPARATUS FOR MAKING HATS**
**Edward J. Gurry, Upton, Mass.**
**Application July 19, 1949, Serial No. 105,505**
**1 Claim. (Cl. 223—12)**



Hat blocking apparatus comprising in combination, a circular platen having a plurality of apertures extending therethrough, a solid hat-shaping block mounted upon the upper face of said platen, so as to be surrounded by said apertures, a flexible diaphragm removably secured at its edge around the upper face of said platen and over said block, an inner casing and an outer casing concentrically arranged and secured to the lower face of said platen, with their attached ends spaced apart, the inner casing forming with the platen an enclosed inner chamber communicating with said platen apertures, and the outer casing forming with the platen an enclosed outer chamber in communication with a solid portion of said platen, in the space between the ends of said casings, a source of steam under pressure, a source of vacuum, valve means for selectively connecting said inner chamber to either said steam or vacuum source, and valve means for connecting said outer chamber to said steam source independently of the inner chamber.

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**2,650,006**
**GARMENT HANGER**
**Carl N. Bergstrom, Portland, Oreg., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota**
**Application November 4, 1948, Serial No. 58,290**
**8 Claims. (Cl. 223—88)**



1. A garment hanger and supporting means including a pair of upwardly converging arms which are generally U-shaped in cross section, said arms having free upper ends, the arms including aligned notches in opposite sides of each of the arms near the free ends thereof, the notches of the two arms registering when the ends of the arms are overlapped, the supporting means including a hook having a hook-shaped upper end, and a hook shaped lower end engaging opposite sides of the overlapped arm ends, the lower extremity of the hook shaped lower end extending in said notches for holding said arm ends from separation.

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**2,650,007**
**ADJUSTABLE COAT HANGER**
**Graham D. McVicker, San Diego, Calif.**
**Application June 22, 1951, Serial No. 232,979**
**3 Claims. (Cl. 223—94)**



1. As a new article of manufacture, a coat hanger adjustable as to size, comprising two complementary, interfitting halves, of like configu-

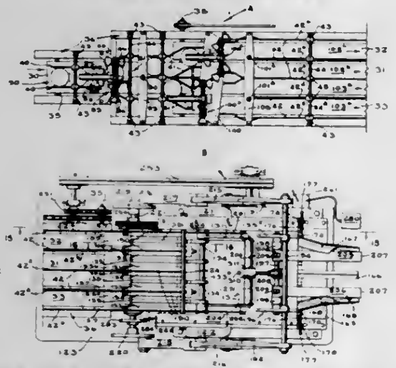
ration and each conforming generally to the shaping of the shoulder of a garment, and each having a series of complementary perforations in the top surface thereof; and a cooperating hook-shaped handle for said two halves having two inwardly extending hook-shaped ends which engage in locking manner in the spaced matching perforations of the halves, to secure them in adjusted position.

**2,650,008**
**SCABBARD**
**Harry Morseth, Everett, Wash.**
**Application June 18, 1951, Serial No. 232,177**
**1 Claim. (Cl. 224—2)**



A scabbard for a hunting knife or the like comprising a relatively flexible outer case providing an elongated pocket open at its upper end, a liner for the pocket secured to the outer casing and comprising a flattened, relatively rigid, fiber tube that is substantially coextensive with said pocket and is closed at its lower end, the front and back walls of the liner tube at the upper end portion of the same being flared outwardly to receive therebetween the hilt end portion of a knife, and said liner tube being provided in the upper end portion thereof with recesses extending longitudinally along the side edge portions thereof inwardly from the upper end of the same between said outwardly flared portions of the front and back walls, said recesses being adapted to receive the ends of the hilt of a knife positioned in the liner tube, and said recesses being similarly formed and each having an enlarged lower part and a restricted upper portion leading outwardly therefrom and having outwardly converging walls adapted to yieldingly embrace the hilt of a knife positioned in the liner tube and to retain the same therein against accidental displacement.

**2,650,009**
**APPARATUS FOR PACKING CONTAINERS**
**Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware**
**Application March 14, 1949, Serial No. 81,254**
**38 Claims. (Cl. 226—14)**



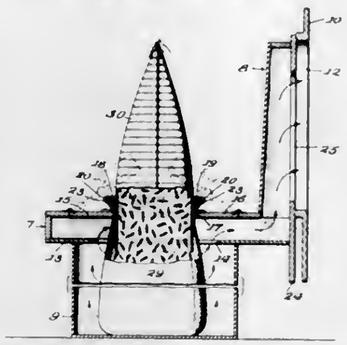
5. A case loading arrangement comprising in combination means for dividing a procession of containers into a plurality of parallel adjacent files, a case loading chute disposed beyond the end of said files and adapted to receive a number of the containers, cyclically operable transfer means arranged to transfer simultaneously a predetermined number of containers from each of said files along a circular path into said chute, and means operating in timed relation with said transfer means for ejecting containers from said case-loading chute into a case.

**2,650,010**
**PACKAGING MACHINE**
**George Arlington Moore, New York, N. Y., assignor to National Biscuit Company, New York, N. Y., a corporation of New Jersey**
**Application November 2, 1945, Serial No. 626,283**
**9 Claims. (Cl. 226—14)**



1. In a packaging machine, the combination of a conveyor for carrying forward a continuous bank of articles stacked on edge, an endless chain having upper and lower runs, spaced flights on said chain, means cooperating with said flights as they rise from the lower to the upper run of the chain to enter them between articles in said bank and fill the spaces between adjacent flights with measured quantities of the articles, means for causing periodic backward movement of the articles in the bank at the point where each flight rises whereby the articles are loosely stacked to permit entry of the flight, a second conveyor for carrying open faced boxes forward parallel to said flights on their upper run, means for positioning the boxes opposite the filled spaces between the flights, and means for transferring the measured quantities of articles from between the flights into the boxes on the second conveyor.

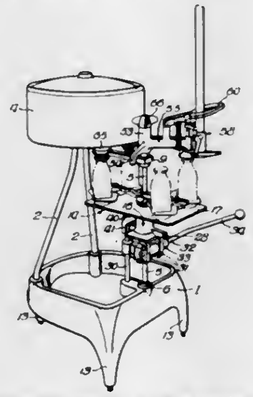
**2,650,011**
**TRANSFER MEANS FOR PILLOW FEATHERS AND THE LIKE**
**William D. L. Anderson, Salt Lake City, Utah**
**Application February 13, 1951, Serial No. 210,769**
**3 Claims. (Cl. 226—43)**



1. Transfer means for pillow feathers and the like comprising an open-top container and a box thereon, said box having an opening in the bottom, a pair of hinged covers in the box top, said covers providing a central opening, a split collar around the opening in the covers, a pair of opposed clamp members mounted on the covers, and a flue for exhausting the box.



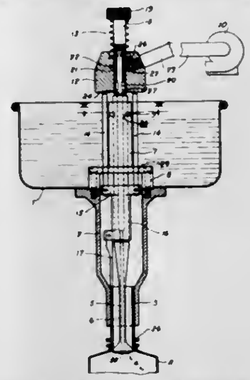
**2,650,012**
**RECEPTACLE FILLER AND CAPPER HAVING RECEPTACLE CARRIER AND CAPPER INDEXING MEANS**
**Theodore H. Kummer and Raymond E. Bodendoerfer, Milwaukee, Wis., assignors to Cherry-Burrell Corporation, Chicago, Ill., a corporation**
**Application October 21, 1947, Serial No. 781,060**
**6 Claims. (Cl. 226—75)**



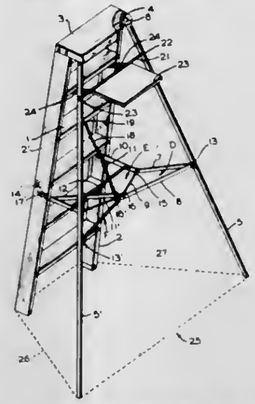
1. A receptacle filling and capping apparatus, comprising, in combination, a support, a rotative receptacle carrier, a filling head overhanging a receptacle supporting portion of said rotative receptacle carrier, a capper pivoted for oscillatory movement about an axis coincident with the extension of the axis of said rotative receptacle carrier and movable through an arc overlying a receptacle support portion of said receptacle carrier, depending index means on and rotatable with said carrier, a stop on said support interposed in the path of rotation of said index means to arrest the rotation of said carrier at a selected position, and means for arresting the oscillatory movement of said capper at a selected position over said carrier comprising a depending projection on said capper adapted to oscillate therewith and an extension on said support in the path of oscillation of said projection and engageable thereby.

**2,650,013**
**APPARATUS FOR DELIVERING LIQUIDS TO RECEPTACLES**
**Johan Gunnar Nilsson, Appelviken, Sweden, assignor to Arenco Aktiebolag, Stockholm, Sweden, a Swedish joint-stock company**
**Application April 26, 1946, Serial No. 665,170**
**In Sweden April 28, 1945**
**3 Claims. (Cl. 226—116)**

1. In an apparatus for delivering liquids from a reservoir having a spout, a fixed stem extending downwardly within said spout and having at its bottom end a head forming an upwardly facing valve seat, a nozzle slidably mounted within said spout and forming a valve member engageable with said valve seat, a reversing valve member supported by said nozzle and being slidable longitudinally on said stem, a channel extending longitudinally in said stem and opening through said head, a suction opening and an outlet opening in said stem communicating with said channel and being spaced apart longitudinally of said stem, a suction source, a suction passage in said reversing valve member communicating with said suction source and adapted to register with said suction opening when said nozzle rests on said valve seat whereby said outlet opening is held closed by said reversing valve member, said nozzle being upon upward movement operative to raise said reversing valve member to close said suction opening and thereafter to open said outlet opening to the atmosphere, said reversing valve member being operative upon downward closing movement of said nozzle to first close said outlet opening and then to connect said suction opening with said suction passage.



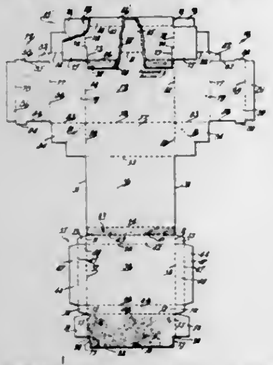
**2,650,014**
**STEPLADDER**
**Henry Harrison, Port Washington, N. Y.**
**Application January 5, 1951, Serial No. 204,550**
**7 Claims. (Cl. 228—31)**



1. In a step ladder construction as herein described, a body portion comprising a pair of laterally spaced apart upright members having a plurality of vertically spaced horizontal step elements secured at their respective ends to the upright members, a pair of rearwardly disposed ladder bracing legs each pivotally fastened to the upper portion of one of said upright members, and means for simultaneously moving the bracing legs laterally and rearwardly of the body portion of the ladder and for securely holding the bracing legs fixed when the ladder is in its extended position comprising a plurality of rigid operating frames including a primary frame element, a pair of secondary frame elements hinged to said primary frame element for folding move-

ment with respect to the same, said primary frame having pivotal connection to the body portion of the step ladder and said secondary frames each having pivotal connection to a respective bracing leg.

**2,650,015**
**CARTON**
**William P. Frankenstein, Cincinnati, Ohio**
**Application January 2, 1948, Serial No. 160**
**9 Claims. (Cl. 229—31)**



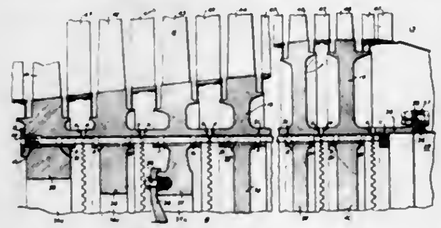
1. In a display box or carton formed from a single blank cut and scored to form a base portion and a cover portion hingedly connected to one another through a hinge fold line, said base portion including a base supported panel, an upwardly spaced goods supporting and display panel and connecting members normal to said base supporting and goods supporting and display panels between the front and back edges thereof, said cover portion comprising a cover panel with front, back and end walls projecting therefrom toward the base portion, said goods supporting and display panel and covering panel being of substantially equal area and said goods supporting and display panel being adapted to be embraced by the cover walls, means on one of said cover and base portions connectable to the other beyond the hinge line for reinforcing the hinge between the base portion and cover portion, and means carried by the base and cover for engagement to limit the closing of the cover on the base, comprising a shoulder inwardly projecting from one of the cover walls for engagement with the goods supporting and display panel.

**2,650,016**
**PARCEL BAG**
**Harold I. McMillan, Cohoes, N. Y., assignor to Cohoes Envelope Company, Inc., Cohoes, N. Y., a corporation of New York**
**Application March 31, 1949, Serial No. 84,714**
**3 Claims. (Cl. 229—55)**



1. A collapsible bag comprising front, rear and gusseted side walls, a bottom, and a panel of relatively stiff resilient material having a width no greater than the distance between the inwardly extending gussets when the bag is in collapsed position creased to form an end flange secured to only one of said first two mentioned walls adjacent the bottom with the crease extending along the lower edge to which it is secured, said panel being folded upon itself about the crease in the collapsed position of the bag to be substantially flat between the walls thereof, the panel being sufficiently resilient to swing out and down automatically as the bag is opened and be forced against the bottom of the bag by the weight of an article inserted therein.

**2,650,017**
**GAS TURBINE APPARATUS**
**Haakon O. Pedersen, Philadelphia, and Josef A. Rydmark, Lansdowne, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 26, 1948, Serial No. 61,972**
**5 Claims. (Cl. 230—134)**



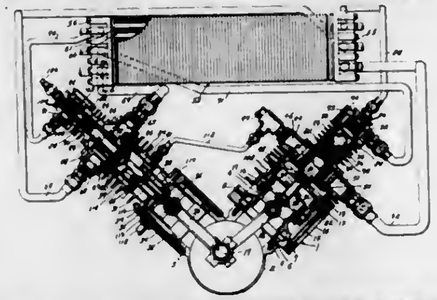
1. A rotor assembly for an elastic fluid machine comprising a plurality of discs arranged in concentric face-to-face alignment, said discs having formed thereon inner and outer annular lateral faces separated by projecting concentric clutch portions having teeth, said teeth of said clutch portions being interlocked and constituting the sole contact between adjacent discs, said discs having a plurality of registering bores formed closely adjacent said clutch portions, said bores extending longitudinally of and radially spaced from the axis of the rotor assembly, end elements disposed coaxially at opposite ends of said plurality of discs and having bores registering with the first-named bores, but slightly eccentric thereof in a radially outward direction, and a plurality of studs constructed and arranged for holding said discs in assembled relation, the ends of said studs being secured in said bores in the end elements, said studs being mounted longitudinally in the respective aligned bores in said discs and engageable with only the radially outer wall of each of the latter bores.

**2,650,018**
**COMPRESSOR**
**Win W. Paget, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania**
**Application February 23, 1945, Serial No. 579,420**
**13 Claims. (Cl. 230—183)**

1. In combination, in a pump, a cylinder, a piston reciprocable in said cylinder and having a piston rod, a crosshead secured to said piston rod, a crosshead guide having a tubular portion coaxial with said cylinder, said piston being hollow and having a skirt portion extending towards said crosshead, said tubular guide portion projecting into the hollow of said piston, means carried by said tubular guide portion and dis-

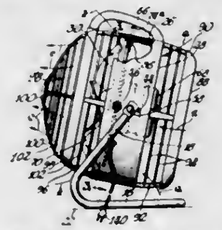


posed within said piston in at least one extreme position of the latter for sealingly engaging said



piston rod, and means for venting the space within said piston externally of said guide portion to atmosphere.

**2,650,019**
**FAN STRUCTURE**
**Max E. Lautner, Webster Groves, and Stanley H. Van Wambeck, Richmond Heights, Mo., assignors to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware**
**Application September 15, 1951, Serial No. 246,744**
**16 Claims. (Cl. 230—259)**



1. In a fan structure, a support, a tubular shroud, a circulation deflector carried thereby in spaced relation to one end thereof, said tubular shroud being pivotally mounted on said support for its tube axis to extend either substantially vertically or substantially horizontally, a fan motor pivotally mounted within said shroud for its shaft axis to extend either substantially vertically or substantially horizontally, a fan on the shaft of said motor, and a geared connection between said support and said motor for turning said motor on its pivotal axis relative to said shroud as a result of turning said shroud on its pivotal axis relative to said support.

**2,650,020**
**FAN SUPPORT HOUSING**
**Wayne J. Morrill, Fort Wayne, Ind.**
**Application March 3, 1948, Serial No. 12,742**
**6 Claims. (Cl. 230—273)**

1. A sheet metal fan housing for supporting a fan in a generally rectangularly shaped opening, said housing comprising front and back stamped sheet metal support members, each having a rectangularly shaped outer perimeter and a circular opening therein, each support member having a drawn sheet metal inner wall around the circular opening and a drawn sheet metal outer wall around the outer perimeter, both integral with the support member and extending transversely therefrom, said outer walls of said front and back support members terminating in abutting edges, a fastening member within said outer walls permanently secured to each outer wall and holding the outer walls in co-planar edge abutting relationship, said inner walls terminating in edges spaced from each other, a circular sheet



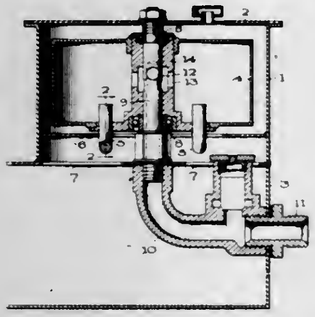
metal band within said inner walls and overlapping each inner wall, bendable tabs fastening said band in overlapping engagement with said inner walls, and fan support means carried by the inner wall of one of said support members for supporting the fan in said opening.

**2,650,021**
**HOUSING FOR FAN SUPPORT**
**Wayne J. Morrill, Garrett, Ind.**
**Original application March 3, 1948, Serial No. 12,742. Divided and this application December 29, 1951, Serial No. 264,078**
**6 Claims. (Cl. 230—273)**



1. In a fan housing for supporting a fan in a substantially rectangularly shaped opening, the provision of a stamped front support member and a stamped back support member, each of said stamped support members having a side portion and having a drawn inner wall portion and a drawn outer wall portion integral therewith, said side portion being substantially rectangular in shape and having a circular opening therein, said drawn outer wall portion extending perimetrically about and perpendicularly to the side portion and away from the side portion toward the opposite support member, said drawn inner wall portion extending about said circular opening and perpendicular to the side portion and toward the opposite support member, the outer wall portion of one of said members having a neck portion over which the outer wall portion of the other of said support members fits, connection means for connecting the overlapping outer wall portions of the front support member and the back support member, and support arms carried by the inner wall portion of one of the support members for supporting the fan within the housing.

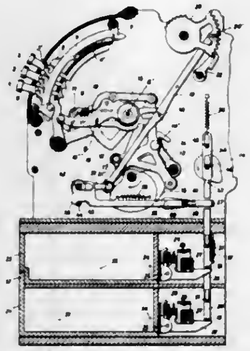
**2,650,022**
**CENTRIFUGE FOR CLEANING LIQUIDS**
**Hugh Wilson Fulton, Edward Brian Stead, and David More, Glasgow, Scotland, assignors, by mesne assignments, to The Glacier Metal Company Limited, Alperton, England, a British company**
**Application August 24, 1950, Serial No. 181,178**
**In Great Britain January 6, 1950**
**1 Claim. (Cl. 233—24)**



In a centrifugal oil cleaner for separating dirt from oil including a casing and a cylindrical drum mounted within the casing for rotation about a vertical axis, said drum having top, bottom and side walls and being adapted to retain the dirt separated from the oil, fixed hollow vertical spindle extending axially through the top and bottom walls of the drum and on which said drum is mounted for rotation, the axis of said spindle being coincident with the axis of rotation of said drum, means for conducting the oil to be cleaned to one end of the hollow spindle, said spindle being provided with at least one lateral port opening into the interior of the drum for conducting oil to be cleaned from the hollow spindle to the interior of the drum, and at least one oil discharge nozzle tube for the discharge of clean oil from the drum including an upright portion in the drum extending above the bottom wall thereof and a portion projecting through the bottom wall of the drum and terminating below the drum in a discharge nozzle, the upright portion of the nozzle tube which extends above the bottom wall of the drum having an opening therein a substantial distance above the bottom of the drum and a substantial distance inwardly from the vertical side wall thereof, the portion of said nozzle tube projecting through the bottom wall of the drum having a tangential setting whereby said drum is caused to rotate by the reaction of a jet of clean oil flowing through the nozzle tube and issuing from the discharge nozzle.

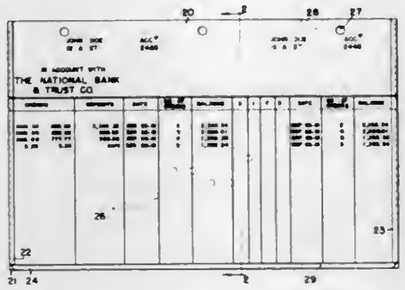
**2,650,023**
**PLURAL DRAWER MECHANISM FOR CASH REGISTERS**
**Kurt Aurbach and Albert Klaar, Bielefeld, Germany, assignors to Anker-Werke, A. G., Bielefeld, Germany, a corporation of Germany**
**Application August 16, 1949, Serial No. 110,553**
**In Germany October 1, 1948**
**4 Claims. (Cl. 235—22)**

4. A cash register, comprising selectively settable operation control means, a plurality of cash drawers biased to open and having respective latch devices for holding said drawers closed, a displaceable slider biased to a given position and engageable with said respective latch devices for releasing said drawers, a driver movable in the displacement direction of said slider and being spaced from said slider in said direction, a coupling structure displaceable from a rest position to an active position between said slider and said driver, said coupling structure when in said active position being engageable with said driver and with said slider to then transmit motion



from said driver to said slider whereby said slider during operation of said driver is displaced an amount sufficient for releasing said plurality of drawers, and a mechanism connecting said coupling means with said operation control means for displacing said coupling structure in dependence upon a given setting of said control means.

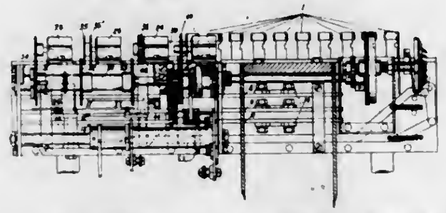
**2,650,024**
**RECORD MEMBER**
**Kenneth S. Ferrin, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland**
**Application November 7, 1951, Serial No. 255,155**
**6 Claims. (Cl. 235—61.12)**




2. A record member for controlling a record-controlled machine, said member consisting of an expendable envelope-like portion upon which data can be printed by the machine, and a magnetizable portion inserted in the envelope-like portion, said magnetizable portion being selectively magnetized by the machine in one operation thereof to store data for use in controlling a subsequent operation of the machine, and said magnetizable portion being usable with a plurality of envelope-like portions to form a plurality of record members and, by its transfer from one envelope-like portion to another, also transferring the last stored data from the old record member to the new.

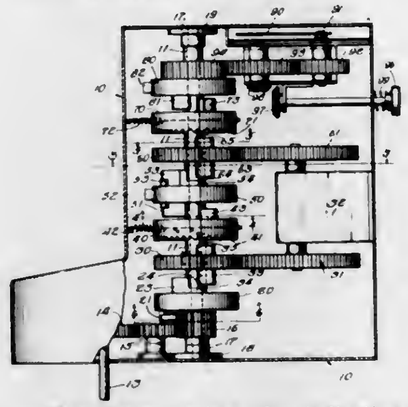


**2,650,025**
**PLURAL COUNTER SELECTING AND OPERATING MEANS**
**John Handley, Purley, England, assignor to The Union Totalisator Company Limited, Glasgow, Scotland, a company of Great Britain and Northern Ireland**
**Application November 13, 1948, Serial No. 59,948**
**In Great Britain November 14, 1947**
**6 Claims. (Cl. 235—91)**



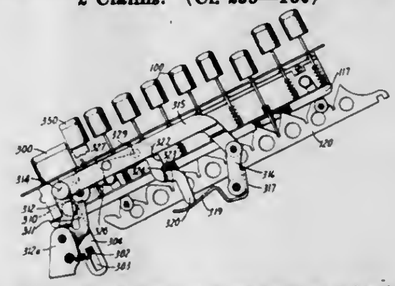
1. In a ticket printing and issuing machine for totalisators including keys for selecting a plurality of at least three different classes of transactions, a register mechanism including counters for separately registering the values of such transactions, means for selecting said counters for operation individually and in selected combinations including a slide bar operatively associated with all of said keys for movement in response to operation of any one of said keys, and means carried by said slide bar for selecting the counter or counters to be operated according to the key operated.

**2,650,026**
**REGISTER FOR METERS**
**Frank C. Amsbary, Jr., and Stuart G. Moore, Champaign, Ill.**
**Application June 2, 1951, Serial No. 229,609**
**26 Claims. (Cl. 235—104)**



1. A flow meter register for indicating the minimum flow during a succession of time periods comprising, a measuring wheel for totalizing the flow during a time increment substantially smaller than said time period, said wheel measuring flow in terms of rotation thereof from a starting position, a storage wheel for storing the total of the flow during one time increment in terms of rotation thereof, a transfer clutch operable at the end of the first time increment to engage said wheels and transmit the total from the measuring wheel to the storage wheel, said transfer clutch connecting said wheels for rotating the storage wheel in amount inversely proportional to the rotation of the measuring wheel and operable at the end of succeeding time increments to transmit only totals less that the first total stored, timed power means for operating said transfer clutch, a period minimum flow registering wheel and a second transfer clutch operable by said timed power means at the end of the first time period to transmit the stored total from the storage wheel to the registering wheel and operable at the end of succeeding time periods to transmit only stored totals greater than the total registered on the registering wheel whereby the maximum of the minimum incremental flow rates is the only flow rate registered.

**2,650,027**
**KEYBOARD INTERLOCK**
**Harold T. Avery, Oakland, Calif., assignor to Marchant Calculators, Inc., a corporation of California**
**Application May 5, 1951, Serial No. 224,706**
**2 Claims. (Cl. 235—130)**

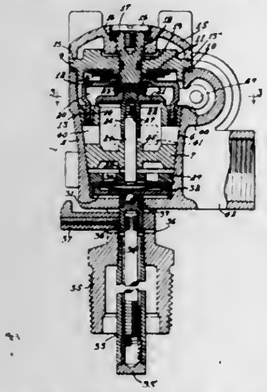


1. In a calculating machine having a keyboard comprising a plurality of rows of numeral keys, digital actuators selectively settable by said keys, selective locking and releasing means for said keys comprising a key locking member for each row of keys and having a key locking and a key releasing position, spring means for urging said member to its key locking position, a device associated with each member movable from a first to a second position and operable during such movement to move said member to key releasing position and thereafter to release the member for movement to its locking position by said spring means, means common to all of said devices to move the latter to their second positions, a control key for initiating operation of said digital actuators, mechanism responsive to depression of said key to operate said common means, and retaining means including a part of said member and a part of said device operable upon the movement of the device to its second position to retain the device in said second position.

**2,650,028**
**UNIVERSAL SAFETY TEMPERATURE CONTROL**
**Richard D. Grayson, Monrovia, Calif., assignor, by mesne assignments, to General Controls Co., Glendale, Calif., a corporation of California**
**Application November 4, 1950, Serial No. 194,155**
**19 Claims. (Cl. 236—21)**

10. In a fuel valve structure for controlling the flow of fuel to a main burner and a cooperating pilot burner, a casing having therein a fuel inlet passage in which is included a seat for a safety valve, a safety valve arranged to engage said seat and having spring means normally tending to close it and an armature for holding it open ar-

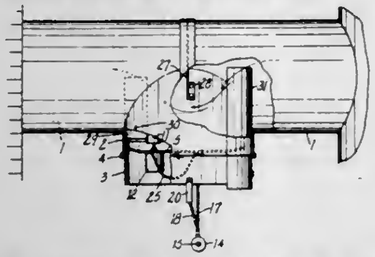
ranged to be attracted by a thermoelectrically energizable magnet operated in response to heat in the operation of the pilot burner, said casing having an outlet passage adapted to communicate with the pilot burner for delivery of fuel thereto whenever the safety valve is open, said casing also having a bore therein with which an outlet port communicates adapted for delivery of fuel to the main burner, a manually operable rotary hollow ported shut-off plug in said bore



for controlling fuel delivery to the main burner port, said plug having a fuel inlet at one end and a valve seat coaxially arranged on the fuel inlet end, a temperature control valve arranged to engage said seat and having operating means connected therewith adapted to open and close said valve in response to temperature change, and a single manually operable means arranged to operate the safety valve and turn the shut-off plug to "on," or "off" position independently of the temperature responsive means.

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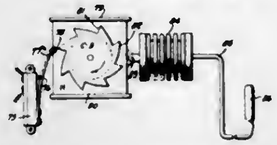
**2,650,029**
**BAROMETRIC DRAFT REGULATOR**
**Edward A. Field, Mendota, Ill.**
**Application December 8, 1950, Serial No. 199,739**
**13 Claims. (Cl. 236—45)**



12. In combination a smoke flue, a housing attached to the flue and opening at its inner end to the smoke flue and at its outer end opening to the atmosphere for passage of atmospheric air through the housing and into the smoke flue, a pivotally mounted gate disposed in said housing for opening from a closed position inwardly of the housing and towards the smoke flue for passage of atmospheric air into the smoke flue during an updraft and disposed for opening from a closed position outwardly of the housing and away from the smoke flue for passage of flue gases out of the smoke flue during a downdraft, a weight, a flexible member supportingly connecting said weight to said gate when the gate opens inwardly due to an updraft, and means separate from said flexible member to support said weight when the gate opens outwardly due to a downdraft to render the closing torque on the gate when opening outwardly due to a downdraft less than the closing torque on the gate when opening inwardly due to an updraft.

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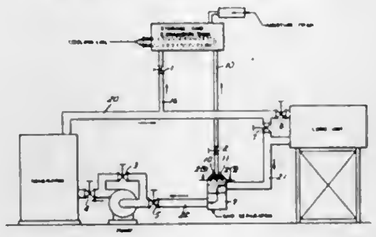
**2,650,030**
**HEAT SUPPLY CONTROL**
**Frank M. Varney, Roanoke, Va.**
**Application November 21, 1949, Serial No. 128,578**
**1 Claim. (Cl. 236—46)**



A fuel supply control for a heating system, said control comprising a temperature responsive means operated by the heating medium of said system, a snap action switch, a rotating cam member having a series of cam faces, a spring arm on said switch adapted to contact said cam faces, and means actuated by the temperature responsive means to vary the distance between said spring arm and said cam faces by moving the cam faces of said rotating cam member toward and away from said spring arm, the contacts of said switch being closed and thus operating said fuel supply when said spring arm is out of contact with any of said cam faces, said switch contacts being immediately opened when said spring arm is in contact with a cam face and remaining open as long as said spring arm contacts a cam face whereby increase of temperature of said heating medium causes increase in duration of the "off" cycle and decrease in temperature of the heating medium causes increase in duration of the "on" cycle.

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**2,650,031**
**HIGH-TEMPERATURE LIQUID HEAT SYSTEM**
**Robert A. Hitch, Trenton, and Ettore Da Fano, Raritan, N. J., assignors to John B. Pierce Foundation, New York, N. Y., a corporation of New York**
**Application May 31, 1950, Serial No. 165,222**
**3 Claims. (Cl. 237—63)**

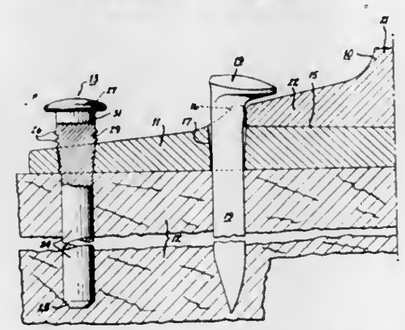


3. A process of transferring heat with a heated disassociated liquid, comprising a silico-organic compound having the formula $Si(OR)_4$ in which R is selected from the group consisting of alkyl and aryl groups which comprises heating said liquid, circulating the liquid to the material to be heated, separating components boiling lower than the temperature of the liquid at the point of lowest pressure in the system, condensing at least part of said lower-boiling components in a separate chamber and maintaining said condensed lower-boiling substances separated from, but in contact with, the circulating liquid.



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**2,650,032**
**TRACK SPIKE WITH CIRCUMFERENTIALLY EXTENDING DEFORMABLE PROJECTION**
**Charles E. Godfrey, Batavia, Ill., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware**
**Application December 8, 1949, Serial No. 131,781**
**5 Claims. (Cl. 238—375)**

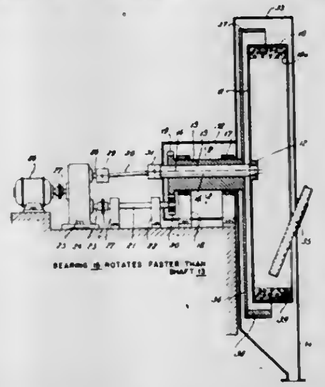


1. In a railroad track assembly, a wooden tie having a bored cylindrical hole, a metal tie plate resting on said tie, said tie plate having a hole whose surrounding walls extend between the upper and lower faces of the tie plate, said tie plate hole being in register with said bored tie hole, and a spike disposed in said registered holes, said spike having a head, a cylindrical shank and a round neck, said neck having projecting portions engaging said surrounding walls of the tie plate hole and held in a state of elastic compression by said surrounding walls, thus bonding the spike to the tie plate so that said tie plate and its bonded spike will move as a unit, said cylindrical shank snugly engaging the cylindrical walls of the bored tie hole.

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**2,650,033**
**METHOD AND APPARATUS FOR VIBRATORY GRINDING**
**Nikolai Ahlmann, Copenhagen, Denmark, assignor to F. S. Smidth & Co., New York, N. Y., a corporation of New Jersey**
**Application June 9, 1949, Serial No. 97,950**
**In Denmark June 14, 1948**
**5 Claims. (Cl. 241—30)**

2. Apparatus for grinding material by means of grinding bodies, which comprises a vessel for containing a charge of the material and grinding bodies and of the shape of a surface of revolution, a support for the vessel disposed in the longitudinal axis thereof, a mounting for the support, the mounting being rotatable on a fixed axis passing through the vessel and parallel to and offset from said longitudinal axis, means for balancing the assembly of the vessel, the charge, and the support to cause the center of gravity of the assembly and the balancing means to lie in said fixed axis, means for positively rotating the support and vessel on the longitudinal axis of the vessel at a speed at least equal to the critical speed of rotation of the vessel, and means for rotating the mounting on said



fixed axis at a higher speed than the speed of rotation of the support and vessel.

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**2,650,034**
**HOLLOW WATER COOLED ROLLER FOR ROLLER MILLS**
**Hermann Kurt Wiemer, Wallington, England**
**Application September 7, 1949, Serial No. 114,417**
**In Great Britain September 17, 1948**
**6 Claims. (Cl. 241—67)**



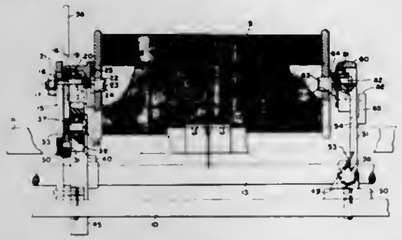
1. A hollow water-cooled metal roller for roller mills for the grinding of chocolate, cocoa or the like, comprising a hollow metal cylindrical grinding portion having a resilient cylindrical axial extension at each end for distributing the forces acting on the roller substantially uniformly over the whole length of the cylindrical grinding portion, such axial extensions having less wall thickness than the grinding portion of the roller, a supporting axle for each end of the roller, end discs connecting the resilient axial extensions respectively with the axles, and means for conducting cooling water to the interior of the roller.

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**2,650,035**
**BOBBIN DRIVE FOR WINDING MACHINES**
**Walter Warren Egee, Yeadon, Pa., assignor to Fletcher Works Incorporated, Philadelphia, Pa., a corporation of Pennsylvania**
**Application December 8, 1952, Serial No. 324,689**
**11 Claims. (Cl. 242—18)**

1. A bobbin winding machine comprising a frame, a rotatable shaft extending longitudinally of said frame, a traverse bar movable parallel to said frame and having a yarn guiding eye for the bobbin to be wound, means for rotatably supporting the bobbin at a fixed location with respect to said frame, said means including supporting members for the ends of the bobbin, one of said supporting members being at a fixed location and the other of said supporting members being movable axially of the bobbin, said one

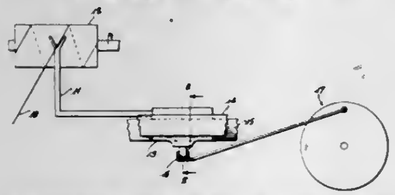
of said supporting members having a freely rotatable sleeve portion, and a rotatable member



engageable with the periphery of said sleeve portion driven by said shaft.

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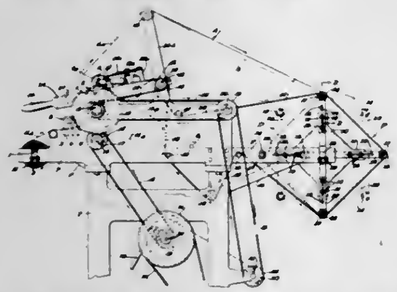
**2,650,036**
**RECIPROCATING BLOCK**
**Lukas Berkepeis, Arnhem, Netherlands, assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware**
**Application February 2, 1951, Serial No. 208,990**
**In the Netherlands February 17, 1950**
**2 Claims. (Cl. 242—43)**



1. A traversing mechanism for thread winding machines which comprises a thread guide, a slidable synthetic linear superpolyamide block supporting and fixed to said thread guide, a metal pin integral with said block, and means acting on said pin to rapidly reciprocate the block.

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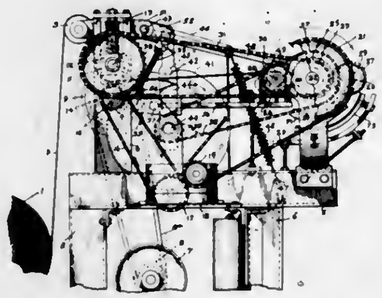
**2,650,037**
**MACHINE FOR WINDING A WEB OF MATERIAL**
**David N. Judelson, Park Ridge, N. J.**
**Application May 5, 1950, Serial No. 160,208**
**7 Claims. (Cl. 242—55)**



1. A machine for longitudinally forwardly feeding a web and winding the web, comprising driven and rotatable feed-roll means operative to feed said web forwardly, a rotatable and polygonal take-up drum located forwardly of said feed-roll means, said polygonal take-up drum having heads at its edges, an endless drive belt for rotating said take-up drum, means actuated by said feed-roll means to actuate said endless belt, said endless belt contacting with only some of said heads in each position of said take-up drum during its rotation.

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**2,650,038**
**AUTOMATIC WEB REWINDING MACHINE**
**Jasper Kievit, Middletown, Ohio, assignor to The Crystal Waxing Company, Middletown, Ohio, a corporation of Ohio**
**Application March 29, 1947, Serial No. 738,037**
**4 Claims. (Cl. 242—56)**



1. In a rewinding machine of the class described, a rotatable turret; means for continuously rotating said turret at a constant, relatively slow rate; two rotatable mandrels mounted on said turret at diametrically opposed points on either side of the axis of rotation of said turret; driving means for rotating said mandrels at a relatively high rate, said driving means including a driving clutch element and a driven clutch element; each of said mandrels during one complete revolution of said turret passing through a winding cycle and an unloading cycle, said cycles beginning and ending when the turret is in a position with both said mandrels lying in the plane of the web being rewound, the winding cycle of each mandrel occupying that half of the turret revolution in which the mandrel is being moved in the direction of web movement, and the unloading cycle occupying that half of the turret revolution during which the mandrel is being moved in the direction opposite said web movement; a brake shoe bearing against the driven clutch element following completion of the winding cycle whereby to brake said mandrel; means for collapsing said mandrel following completion of the winding cycle; means for advancing the web to be rewound; means to connect said web to a mandrel at the start of a winding cycle; and means to sever the web from a mandrel at the start of an unloading cycle.

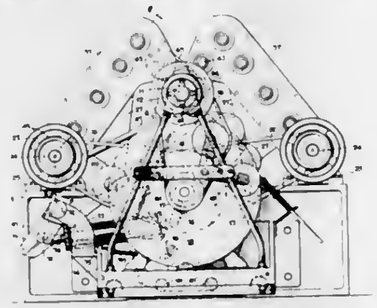
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**2,650,039**
**REWINDING MACHINE**
**Thomas N. Carter, Bayside, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a corporation of New York**
**Application November 28, 1950, Serial No. 197,896**
**4 Claims. (Cl. 242—65)**

1. In a winding machine the combination of a pair of rewind arms pivotally supported at their inner ends and adapted to support a winding shaft at their outer ends on which shaft a web of sheet material is to be wound into a winding roll whose surface speed it is desired to maintain substantially constant while its diameter increases, the angle of position of said arms varying in accordance with the variation in the radius



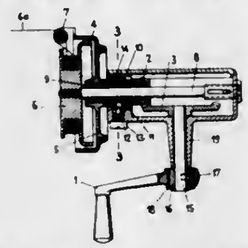
of said wound roll, one of said arms carrying at its outer end means for driving engagement with said shaft, variable speed means having its power output drivingly connected to said winding shaft driving means, and control means for said variable speed means, said control means comprising a member rotatably mounted for angular movement about a fixed axis and operatively connected to said variable speed means for varying its output speed in accordance with the



angular position of said member and an elongated member having one end pivotally connected to one of said rewind arms and its other end disposed in guided engagement with and operatively connected to said rotatable member for varying the angular movement of said rotatable member in accordance with the angular movement of said rewind arm, said variation in said output speed being inversely as the winding roll diameter increases.

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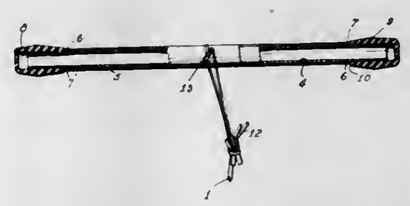
**2,650,040**
**FISHING REEL**
**Albert Glaser, Zurich, Switzerland**
**Application December 20, 1949, Serial No. 134,089**
**In Switzerland December 23, 1948**
**2 Claims. (Cl. 242—84.1)**



1. In a fishing reel, a housing having mounted therein an axially reciprocable shaft extending with one end outside said housing, a line spool fixedly mounted on the outwardly extending end of said reciprocable shaft, a tubular shaft rotatably mounted on said reciprocable shaft, means for preventing axial displacement of said tubular shaft including a bearing bushing having a ball-shaped outline mounted non-rotatably in a cylindrical bore provided at one end of the housing, said bearing bushing surrounding said tubular shaft and having a radial hole, a pin attached to said housing and extending loosely into said radial hole, manually operable means mounted in said housing for rotating said tubular shaft, a circular drum disc integrally formed with a hub member fixedly mounted on said tubular shaft, said drum disc having a diameter of a size substantially in excess of the greatest cross-sectional dimension of said bearing bushing, a drum ring provided with means thereon to exchangeably secure it to the circumference of said drum disc and having mounted thereon a line guiding roller for guiding fishing line toward and away from said line spool on said axially reciprocable shaft.

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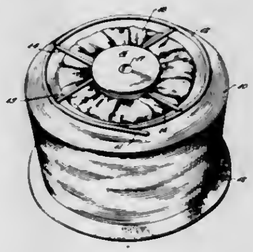
**2,650,041**
**CLOTHESLINE REEL UNIT**
**William F. Albers, Florissant, Mo.**
**Application May 21, 1951, Serial No. 227,453**
**2 Claims. (Cl. 242—96)**



1. A clothes-line reel unit comprising an elongated axle, a tubular sleeve freely rotatably mounted thereon, means at the ends of said axle and positioned longitudinally outwardly beyond the ends of said sleeve for grasping the unit from either end while unreeling said line and having portions extended radially beyond said sleeve and which form horizontally projecting abutments to support the unit from the line when the line is anchored from a point above the unit.

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**2,650,042**
**APPARATUS FOR USE IN UNWINDING YARN**
**Paul W. Markwood, Lowland, Tenn., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware**
**Application February 2, 1950, Serial No. 142,010**
**2 Claims. (Cl. 242—128)**



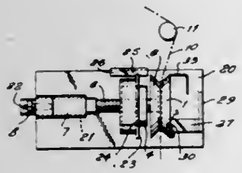
1. Apparatus for detecting the direction of twist of the component yarn of a yarn cake during overend withdrawal of yarn from said cake that comprises a ring having a barb extending generally tangentially from its periphery, said ring having supporting spokes; a plug for insertion in the interior of said cake with an end face adjacent the end of the yarn cake over which the yarn is to be withdrawn, said end face having grooves for the accommodation of said spokes, a disc and detachable means to clamp said disc over said spokes to hold the same in said grooves, and thus to hold the ring over the end of the yarn cake over which the yarn is to be withdrawn.

**2,650,043**

## APPARATUS FOR MAINTAINING A CONSTANT TENSION IN A MOVING FILAMENT

**Hermann Grein, Remscheid-Lennep, Germany, assignor to Barmer Maschinenfabrik Aktiengesellschaft, Wuppertal-Oberbarmen, Germany**

**Application September 5, 1951, Serial No. 245,130**
**In Germany September 18, 1950**
**13 Claims. (Cl. 242—150)**



1. Apparatus for automatically maintaining a constant tension in a moving filament, comprising in combination, a pair of members each of which has a substantially flat surface portion facing the substantially flat surface portion of the other member and being located closely adjacent thereto, said substantially flat surface portions being respectively located on opposite sides of a plane passing therebetween and one of said members being mounted, at at least a part of said flat surface portion thereof, for movement toward and away from the other of said members; moving means associated with said one of said members for urging the same toward the other of said members with a force which varies inversely with the distance of said part of said flat surface portion of said one member from said other member so that said flat surface portions contact and produce a tension in a filament moving in said plane and located between said flat surface portions; and guide means, for guiding the filament, being associated with said members and located on the same side of said plane as said one member but at a further distance from said plane than said flat surface portion of said one member so as to change the direction of movement of a filament when it leaves said member, whereby, when the tension in the filament moving between and contacting said flat surface portions of said members tends to increase, the filament moves said part of said flat surface portion of said one member away from said other member against the action of said moving means so as to decrease the length of filament contacted by the flat surface portion of said other member and decrease the force of said flat surface portion of said one member against said filament to thereby automatically maintain the tension constant.

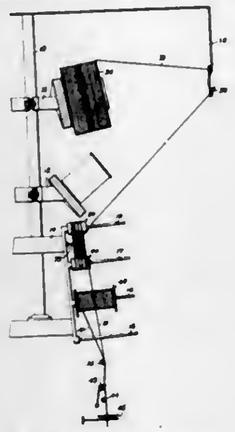
**2,650,044**

## ZERO TWIST YARN TENSIONING DEVICE

**Hal M. Adams, Robbins, N. C., assignor to Robbins Mills, Incorporated, New York, N. Y., a corporation of New York**

**Application October 9, 1950, Serial No. 189,227**
**1 Claim. (Cl. 242—155)**

A yarn tensioning device comprising a source of yarn, a pair of rotatably supported freely turning rollers having an outer covering of cork, said yarn being passed about said rollers in contact



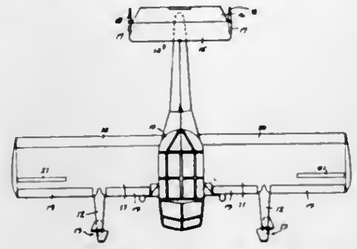
with said cork so as to form a plurality of runs extending between said rollers.

**2,650,045**

## AIRCRAFT

**William E. Hunt, Brooklyn, Conn., assignor, by direct and mesne assignments, to Wiggins-Hunt Engineering Corporation, Norwood, Mass., a corporation of Massachusetts**

**Application November 10, 1950, Serial No. 194,999**
**9 Claims. (Cl. 244—13)**



1. In an aircraft, a body, a wing structure, lift increasing means for said wing structure which in operative position normally diverts the air stream downwardly, a propeller means including at least a pair of laterally spaced counter-rotating propellers, one at each side of the longitudinal axis of the aircraft; each propeller including a hub, blades hingedly connected at their root ends to said hub about axes parallel to the plane of rotation of the propeller disc for relative flapping movement, and a pivotal mounting for said hub having a horizontal transverse pivot axis ahead of the wing structure about which the propeller thrust axis is tiltable between horizontal and downwardly tilted positions, said pivot axis coinciding with the center line of the plane of rotation of the propeller disc, said thrust axis at all times being in such forward relation to the chord of the wing structure that the wing structure and its lift increasing means is substantially centered in the projected disc area of the propeller slip stream; the major portion of said wing structure being at all times immersed in the slip streams of said propeller means; and an empennage supported to the rear of said wing structure so located that said slip streams cause the resultant air streams over the wing structure and its lift increasing means to bathe the empennage.

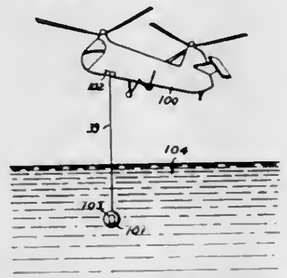


**2,650,046**

## AUTOMATIC CONTROL FOR HELICOPTERS

**Edward G. Vanderlip, Radnor, Pa., assignor to Piasecki Helicopter Corporation, Morton, Pa.**

**Application December 14, 1950, Serial No. 200,714**
**5 Claims. (Cl. 244—17.13)**



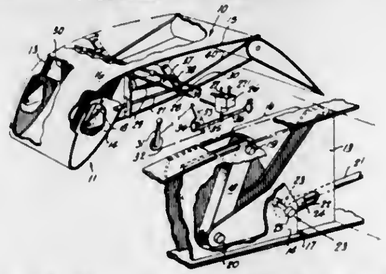
1. In combination, a rotary wing aircraft having blade pitch changing means for control of the altitude thereof, automatic means to maintain a constant height of said aircraft above a body of water on the earth's surface comprising, means to sense hydrostatic pressure changes, means on said aircraft to suspend said hydrostatic sensing means a predetermined distance below the aircraft and into a body of water, servo means associated with said hydrostatic sensing means and responsive to changes of hydrostatic pressure sensed by said hydrostatic sensing means, said servo means being operatively connected to the aircraft blade pitch changing means to correct for changes of altitude of said aircraft as sensed by said hydrostatic means.

**2,650,047**

## VARIABLE CAMBER WING

**Nathan A. Carhart and Eliot F. Stoner, Los Angeles, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif.**

**Application January 22, 1949, Serial No. 72,226**
**7 Claims. (Cl. 244—44)**



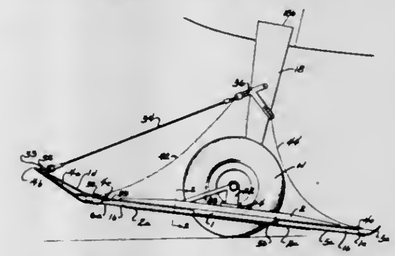
1. In an airfoil construction that includes a main airfoil portion and a semi-floating drooopable section flexibly suspended at its upper inner surface by an integral flexible portion thereof from the adjacent surface of the main airfoil portion; means for positively and pivotally supporting said section for downwardly reflexing same, comprising: a support attached at one end to, and projecting longitudinally from, the main airfoil portion; a link disposed between the unattached end of the support and the upper inner surface of said section and pivotally connected at its ends to the support and to said section; and an actuating member for reflexing said section pivotally attached to the lower adjacent surface of said section, the aforesaid pivot points together defining a triangular truss-like structure having rigid sides disposed under the flexible portion of said airfoil construction, said sides being pivotally adjustable by the actuating member into positions defining a series of triangles taking all the stresses in all positions of said flexible portion except those due to flexure of the latter and to aerodynamic forces.

**2,650,048**

## AIRPLANE LANDING GEAR

**Raymond O. Woychik, Middleton, Wis.**

**Application January 31, 1950, Serial No. 141,458**
**4 Claims. (Cl. 244—108)**



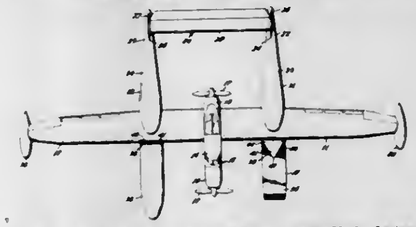
1. A landing ski for wheeled aircraft comprising a ski body apertured and adapted to receive an aircraft landing wheel, an outboard tubular metal post and an inboard metal post, each of said posts respectively disposed intermediate the ends of said ski, said inboard post of greater length than said outboard post, and tubular means carried by the upper ends of said posts adapted for coaxial engagement with opposite ends of the landing wheel axle to secure said ski to the aircraft, providing a greater area of contact between the ski and the ground on the landing of aircraft.

**2,650,049**

## TRANSPORT AIRPLANE CONSTRUCTION

**Harlan D. Fowler, Whittier, Calif.**

**Application June 20, 1949, Serial No. 100,165**
**15 Claims. (Cl. 244—118)**

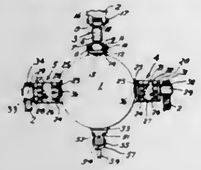


1. An airplane comprising parallel laterally spaced fuselage sections, a wing spanning said sections, an empennage section joined to the wing, a structure including pilot cabin and an engine section joined to the wing, each said laterally spaced fuselage section comprising a central connecting portion attached at its upper part to and carried by the wing, a self-supporting relatively flat platform extending throughout the length of each fuselage section forward and aft of the wing, said platform being located at

a level lower than the level of the wing and having an upwardly facing exposed portion extending forward of the wing, an individual pod on said platform, power means on each fuselage section engaging jointly the pod and the platform for moving said pod off and on said platform, and locking means on each laterally spaced fuselage section cooperable with said pod.

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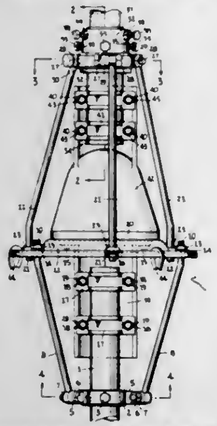
**2,650,050**
**MOVABLE MOUNT FOR AIRCRAFT ENGINES**
**Milton E. Chandler, New Britain, Conn., assignor to Niles-Bement-Pond Co., West Hartford, Conn., a corporation of New Jersey**
**Application June 17, 1948, Serial No. 33,646**
**14 Claims. (Cl. 248—5)**



1. In an aircraft propelled by a jet engine, a frame, means for mounting said engine movably lengthwise in said frame in a line parallel to the direction of flight of said aircraft, comprising a plurality of resilient, flexible elements connecting said engine with said frame, said elements being so constructed and arranged that the engine is bodily movable relative to said frame in said lengthwise direction, but is prevented from rotation and lateral bodily movement with reference to said frame.

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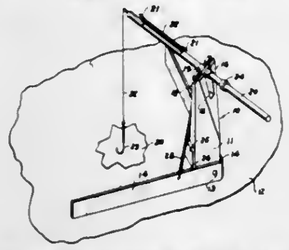
**2,650,051**
**SUPPORT FOR ROTATABLE ANTENNA STRUCTURES**
**Charles A. Zarobsky and Joseph F. Seybold, Cleveland, Ohio, assignors to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio**
**Application July 21, 1950, Serial No. 175,229**
**7 Claims. (Cl. 248—45)**



1. The combination of a rotator, a supporting mast secured to a non-rotating portion of said rotator, a base plate secured to the non-rotating portion of said rotator, means secured to said base plate for engaging said support mast at a point spaced from its securement to said rotator, a tubular member secured to said rotator for axial rotation therewith, an antenna mast secured to said tubular member, positioning means provided on said member for axially aligning said antenna mast with said member, a bearing ring, means secured to said base plate and supporting said bearing ring at an elevated position above said rotator, and a collar secured to said tubular member and journalled in said bearing ring whereby said antenna mast is rotatably supported at an elevated point spaced from said rotator.

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**2,650,052**
**FISHING STAND**
**Louis A. Bintz, Detroit, Mich.**
**Application February 20, 1951, Serial No. 211,947**
**1 Claim. (Cl. 248—46)**



A fishing stand including a four sided standard, a rail pivotally affixed at one end to one side of the standard at its base, another rail pivotally affixed at one end to the adjoining side of the standard at its base, the arrangement leaving two free sides of the standard, the two rails being adapted to be set up horizontally, at right angle to each other and at right angle to said standard, a coil spring attached at one end to the upper portion of the standard and attached at the other end to one rail at a point between its outer end and its pivotal connection to the standard, a similar coil spring similarly connected to the other rail, a block affixed to one free side of the standard, and another block affixed to the other free side of the standard, the blocks being disposed at a level just above that of the rails in their horizontal position, and extending over the top of said rails to prevent them from being pulled upwardly by the tension of the coil springs, the rails being adapted to be swung in an arc from their respective blocks and to be folded against said stand.

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**2,650,053**
**CURTAIN ROD BRACKET CARRIER**
**Ida Lundstrom, St. Louis, Mo.**
**Application July 28, 1950, Serial No. 176,436**
**1 Claim. (Cl. 248—265)**



A curtain rod bracket carrier comprising an elongated body having a plurality of longitudinal slotted openings arranged in spaced side by side relation through which openings fastening devices may pass for securing a curtain rod bracket to the outer face thereof, the upper end of the body terminating in a rearwardly directed flange having a plurality of spaced pull-cord receiving openings, the lower end of the body terminating in a rearwardly directed flange having a plurality of pull-cord receiving openings arranged in axial alignment with the pull-cord receiving openings in the upper flange, the lower flange terminating in a channeled member disposed at an angle to the lower flange, and a felt strip held in a clamped position by the channeled member and projecting beyond the lower open end thereof and beyond the lower plane of the lower flange.



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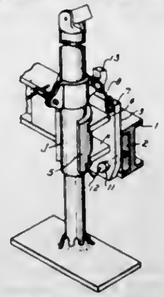
**2,650,054**
**DISPLAY ADVERTISING AND ILLUMINATING DEVICE**
**Donald Charleston, Chicago, Ill.**
**Application July 3, 1950, Serial No. 171,893**
**1 Claim. (Cl. 248—278)**



In a display advertising device, universal adjustment means including a channel element, a tiltable unit having an end panel secured to the said channel element, an angularly formed bracket element provided with an angularly formed threaded lug portion and articulately secured to the said channel element, a universal joint secured intermediately the said channel element and the said end panel, and a universal equalizing and adjusting screw threadably engaging the said angularly formed threaded lug portion providing limited universal movement to the said tiltable unit.

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**2,650,055**
**JACK BRACKET**
**De Mar B. Perkins, Monticello, Utah**
**Application July 1, 1949, Serial No. 102,581**
**1 Claim. (Cl. 248—291)**



A jack bracket adapted to be fastened to the frame of a trailer body comprising a plate, a substantially vertically positioned sleeve member for receiving the body portion of a jack, means for attaching said sleeve member to said plate, a member attached to the plate for engaging a lifting part of a jack, means for pivotally mounting the bracket on the trailer frame so that the bracket may be pivoted to operative or inoperative position, and a pin attached to the bracket adapted to engage the body of the trailer and to lock the bracket in operative position.

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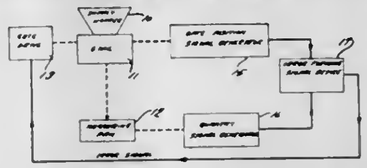
**2,650,056**
**SUPPORT**
**William J. Masoner, Chicago, Ill.**
**Application May 16, 1950, Serial No. 162,378**
**4 Claims. (Cl. 248—323)**



1. A suspension support comprising an upper, downwardly facing, channel member and a lower, upwardly facing, channel member, attaching means connected to the upper member for connection to an overhead structure, bolt means extending through intermediate portions of the members for providing relative rotation thereof, a bearing plate interposed between adjacent parts of the members and through which the bolt means extends, and means depending from the lower member for attachment to the device to be supported.

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**2,650,057**
**AUTOMATIC MEASURING APPARATUS AND METHOD**
**Martin Goland and Price D. Wickersham, Kansas City, Mo., assignors to Midwest Research Institute, Kansas City, Mo., a corporation of Missouri**
**Application September 4, 1947, Serial No. 772,059**
**12 Claims. (Cl. 249—1)**

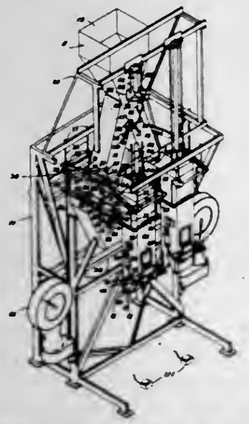


1. Apparatus for automatic measuring of successive quantities of flowable material comprising a measuring device having a material receiving pan and an element movable as a function of the quantity of the material on said pan, a supply conduit cooperating with said pan to supply material thereto, a shiftable valve in said conduit arranged to have a predetermined position for each position of said movable element in order to control the rate of material flow through said conduit, a first signal generating device con-

nected to said movable element to produce a first signal which is a function of the position of said movable element, a second signal generating device connected to said valve to produce a second signal which is a function of the position of said valve, and means for comparing said first and second signals to produce an error signal whenever said first and second signals depart from the predetermined position relation between said valve and movable element, and means for shifting said valve as a function of said error signal and in the direction to reduce said error signal to zero.

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**2,650,058**
**AUTOMATIC PACKAGING MACHINE**
**Robert E. Read, Glens Falls, N. Y., assignor to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey**
**Application June 26, 1948, Serial No. 35,326**
**11 Claims. (Cl. 249—4)**

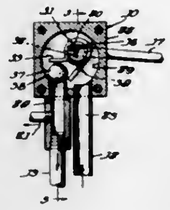


1. A packaging machine for filling bags comprising bag holding means, a conveyor positioned to discharge material into a bag on the bag holding means, a weighing scale carrying the conveyor, holding means and bag, means for feeding material to the conveyor, means controlled by the scale in response to said predetermined weight for cutting off the feed to the conveyor, a jet mechanism positioned adjacent the column of material falling to the conveyor and adapted to direct a stream of fluid under pressure against the falling column for severing said column and preventing the material from reaching the conveyor, a switch-controlling tension member mounted on the bag holding means and cooperating with the bag on the holding means, a switch actuated by the bag against the tension member, and means controlled by the switch for turning on the jet mechanism and severing the feed to the conveyor if no bag or a defective bag is on the holding means.

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**2,650,059**
**FILLING VALVE OR THE LIKE**
**Julius A. Hjulian, Palos Heights, Frank D. Cotterman, La Grange, and George E. Hansen, Chicago, Ill., assignors to Crane Co., Chicago, Ill., a corporation**
**Application April 18, 1950, Serial No. 156,684**
**4 Claims. (Cl. 251—133)**

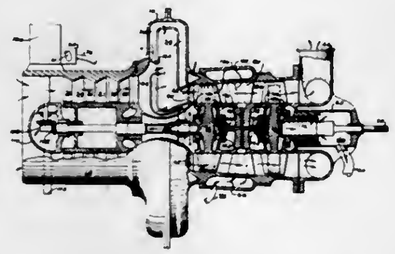
1. A valve comprising a substantially fluid tight casing having fluid inlet and outlet openings therethrough, a rotatable stem extending into the said casing, means for rotating the said stem, a closure member holder non-rotatably mounted on the said stem within the said casing and having two extending end portions spaced apart, a spherical closure member limitedly restricted in movement by the said closure member holder end portions thereby to selectively interrupt fluid flow



through the said valve by the combined seating in the outlet opening of the casing under line-fluid pressure and with a force exerted by the said closure member holder having one of said end portions of the said holder abut against the said closure member in a maximum rotative position of the said holder, the other end portion of said holder serving to unseat the said closure member and maintain it unseated.

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**2,650,060**
**GAS TURBINE ADAPTED AS A STARTER**
**Edward A. Stalker, Bay City, Mich.**
**Application April 27, 1948, Serial No. 23,433**
**3 Claims. (Cl. 253—39.15)**



1. In combination in a gas turbine having a gas flow passage, an upstream turbine rotor and an adjacent downstream turbine rotor, said rotors being independently mounted for independent rates of rotation, each said rotor having blades operable in said gas passage, each said rotor having an internal cooling flow passage means therethrough for the conduction of cooling liquid into and out of each said blade through the root end thereof, said cooling passage means having its inlet and exit in a said rotor spaced radially inward from the root ends of said blades, and liquid supply means positioned between said rotors operably connected to the rotor passages of each said rotor in parallel to supply a substantially independent flow of cooling liquid for each rotor, and seal means disposed between said liquid supply means and said rotor passage means to exclude said liquid from said gas flow passage, the tips of said blades being closed to radially outward flow of said liquid therefrom.



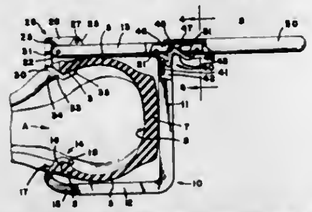
**2,650,061**
**NAIL EXTRACTING DEVICE**
**John J. Denovan, Lachine, Quebec, and Robert A. Denovan, Sherbrooke, Quebec, Canada**
**Application November 16, 1950, Serial No. 195,977**
**10 Claims. (Cl. 254—18)**



1. A machine for pulling nails and the like comprising a frame, a driven shaft journalled therein, and a rotary nail extracting disc fixed to the shaft, said machine having only one supporting element projecting beyond the frame and arranged to engage a surface under treatment, said element consisting of a single shoe fixed to the frame, said shoe being located entirely to one side of and laterally opposite said disc and having a riding surface lying in a plane positioned slightly radially beyond the periphery of the disc and outwardly beyond said frame, said riding surface being engageable with said surface under treatment to support said frame and disc in elevated relation to said surface, said disc when so supported being engageable with nails and the like projecting from said surface under treatment, said riding surface being of less length than the diameter of the disc, said machine being free from projections laterally opposite said shoe on the other side of said disc whereby said side of the disc opposite the shoe is fully exposed, and said machine being freely movable on said shoe over the surface under treatment and being tiltable on said shoe with relation to said surface under treatment.

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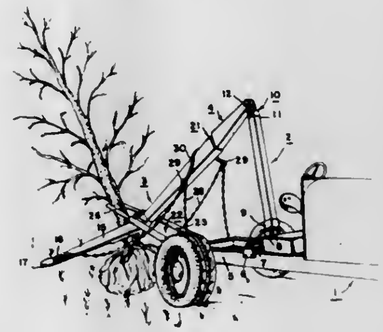
**2,650,062**
**TIRE SPREADER**
**Guy E. Anderson, Wytopitlock, Maine**
**Application October 4, 1951, Serial No. 249,697**
**3 Claims. (Cl. 254—50.1)**



1. A tire casing spreader including a body receiving a portion of a casing, said body having a fixed casing bead-holding means and a rigid portion opposite said means, a handle, means pivoting said handle at one end thereof to said rigid portion at the free end of said rigid portion, to pivot selectively toward and away from said fixed casing bead-holding means carried by said handle comprising a link portion pivoted at one end to said handle closely adjacent the pivotal connection of said handle and rigid portion, and a casing bead holder pivoted at the other end of said link portion, including a short arm, the pivotal connections of said handle and rigid portion, of said handle and link portion and of said link portion and arm being such that said arm will extend directly over the free end of said rigid portion and in contact with the pivoted end of said handle, and said link will parallel and be in contact with a portion of said handle, when said movable casing bead-holding means is farthest from said fixed casing bead-holding means.

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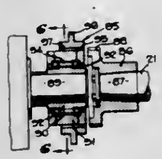
**2,650,063**
**GRUBBER**
**Edward M. Hawkins, Forest, Va.**
**Application December 19, 1950, Serial No. 201,630**
**10 Claims. (Cl. 254—132)**



1. A grubber for trucks comprising a beam having an inner end pivotally attached to a truck and an outer end contacting the ground, said beam being hinged intermediate its ends, means for maintaining the hinge point of said hinge above a line drawn between the contact point of said beam with the ground and its pivot point with said truck, and force-transmitting means on said beam between said outer end and said hinge point, said beam breaking upwardly on application of force to said pivoted inner end.

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**2,650,064**
**DRAWWORKS**
**John B. Picard, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 3, 1949, Serial No. 97,055**
**9 Claims. (Cl. 254—187)**



1. In a rotary drawworks, the combination of a drumshaft, a spooling drum on said drumshaft, a lineshaft, low speed drive means whereby the lineshaft may drive the spooling drum, including a large driven sprocket fixed relative to the spooling drum and a small driving sprocket fixed relative to the lineshaft and connected by a chain, an auxiliary brake positioned coaxially of the lineshaft, and over-running clutch means for connecting the brake to the lineshaft whereby the brake may be driven at a greater speed than the drum when the latter is turning in an unspooling direction.

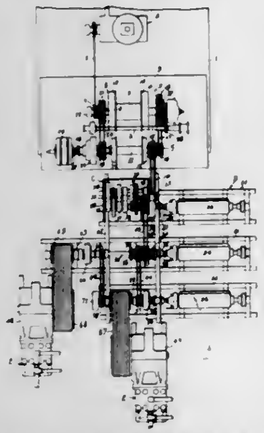
**2,650,065**

## CONSOLIDATED RIG

**Forrest J. Young, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania**

**Original application July 29, 1944, Serial No. 547,264, now Patent No. 2,536,483, dated January 2, 1951. Divided and this application May 19, 1950, Serial No. 163,059**

**5 Claims. (Cl. 254—187)**



1. In a well drilling drawworks, the combination of: a spooling drum adapted to spool and unspool cable for raising and lowering a drill string into a well hole, a large sprocket mounted coaxially of the spooling drum, means connecting said large sprocket in driving relation with said spooling drum, a lineshaft member, a sprocket member mounted coaxially of the lineshaft member and having a sprocket of smaller diameter than said large sprocket, clutch means for connecting said sprocket member to the lineshaft member, an endless chain connecting said sprockets so that the lineshaft member may drive the spooling drum at a reduced speed, a high-capacity energy-absorbing brake positioned coaxially of said members for resisting unspooling motion of the drum to impede free fall of the drill string, and additional clutch means for connecting the brake in driving relation with one of said members whereby the brake may be driven from the spooling drum through said endless chain at a higher speed independently of the other of said members.

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**2,650,066**

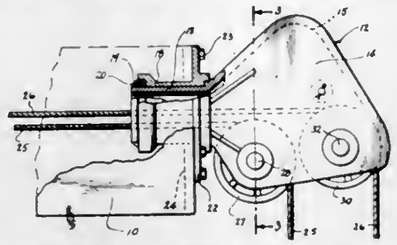
## FAIRLEADER

**Marc D Troyer, Seattle, Wash., assignor to Berger Engineering Company, Seattle, Wash., a corporation of Washington**

**Application December 26, 1950, Serial No. 202,739**

**2 Claims. (Cl. 254—190)**

1. A loading boom equipped at its outer end with a fairleader including a housing having a tubular mounting hub extending longitudinally from its inner end and said boom having at its outer end a tubular bearing mounting said hub for axial oscillation, the housing comprising oppositely disposed spaced side walls, two sheave wheels on the housing between the side walls thereof disposed one in advance of the other in a longitudinally extending central vertical plane common to the axis of the mounting hub and said housing, supporting axles for said sheaves mounted on the housing below the level of the longitudinally extending axial line of the mounting hub, and two cables each extending along the boom and through said hub and over one of said



sheave wheels, said sheave wheels supporting the cables spaced from each other and in spaced relation with the mounting hub and the side walls of the housing.

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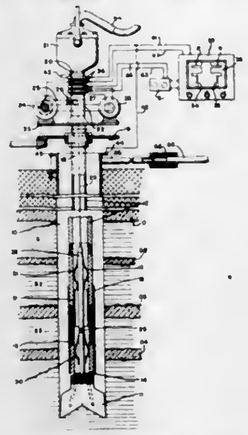
**2,650,067**

## APPARATUS FOR LOGGING WELLS WHILE DRILLING

**Philip W. Martin, Huntington Park, Calif.**

**Application December 13, 1948, Serial No. 64,971**

**3 Claims. (Cl. 255—1)**



1. Apparatus for ascertaining the resistivity of a subterranean formation at the instant of penetration of such formation by a rotating drill bit as the drilling proceeds, comprising a drill bit, a drill string electrically insulated from said bit, an electrical conductor extending through said drill string, a source of current at the surface of the well, means for connecting said source of current to said conductor while said drill string is rotating, means for raising and lowering said conductor in said drill string, a probe supported in said drill string by said conductor, said probe having first and second portions electrically insulated from each other, a circuit including said conductor for impressing a difference in potential on said first and second portions of said probe, indicating means at the surface for indicating resistance to flow of current between said first and second portions of said probe, electrical contact means effective while said probe is in a first position relative to said bit for placing one of said portions of said probe in contact with said drill string and the other of said portions of said probe in contact with said bit whereby current flows through the formation surrounding said bit, said electrical contact means being effective while said probe is in a second position relative to said bit to insulate one of said portions of said probe from contact with said bit and drill string whereby said indicating means may be calibrated for maximum resistance, and said electrical contact means being effective while said probe is in a third position relative to said bit to place said upper and lower portions of said probe in contact with said drill string whereby said indicating means may be calibrated for minimum resistance.



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**2,650,068**

## CORING METHOD AND APPARATUS

**William W. Rand, Santa Barbara, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California**

**Application January 31, 1949, Serial No. 73,776**

**16 Claims. (Cl. 255—1.4)**



1. An apparatus for obtaining samples of submarine formations which comprises a hollow core barrel with a core head attached to the lower end, a movable massive weight adapted to apply sharp impact force to said core barrel, said weight acting longitudinally with respect to said core barrel, a sampling tube, suspension means for said apparatus, and means for recording the inclination and azimuth of inclination of said core barrel after penetration of said formations.

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**2,650,069**

## SUBMARINE CORE SAMPLING

**William W. Rand, Santa Barbara, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California**

**Application September 23, 1949, Serial No. 117,337**

**12 Claims. (Cl. 255—1.4)**

1. An apparatus for core sampling geologic strata submerged beneath a body of water which comprises an elongated hollow member, a suspension cable connecting said elongated member with a vessel on the surface of a body of water, an inlet connection opening into said elongated member, a hose connecting said inlet connection with a source of high pressure water aboard said vessel, an elongated drop weight suspended within said elongated member, means extending to the surface for releasing the suspended drop weight at will and a core barrel provided with a



core-cutting head suspended within said elongated member and below said drop weight.

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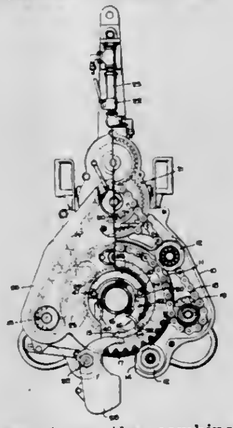
**2,650,070**

## PIPE GRIPPING MECHANISM FOR POWER TONGS

**Chester A. Lundeen, Los Angeles, Calif., assignor to Byron Jackson Co., Los Angeles, Calif., a corporation of Delaware**

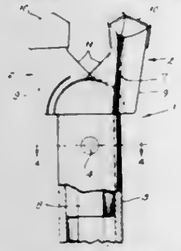
**Application April 8, 1950, Serial No. 154,820**

**15 Claims. (Cl. 255—35)**



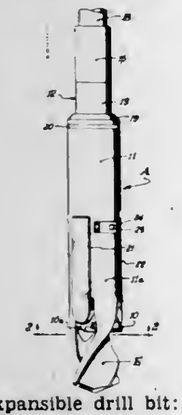
1. In a power tong, the combination of: a frame, a ring rotatably supported on the frame and having a side opening through which a pipe may pass to a central position, a releasable pipe-gripping mechanism, spaced rollers associated with said ring rotatably supporting the pipe-gripping mechanism on the ring co-axially thereof, the mechanism having a pipe-gripping element mounted for movement relative thereto between an operative pipe-gripping position and an inoperative retracted position, means for relatively moving said mechanism with respect to said rollers, at least one of the rollers being disposed in the path of relative movement of said mechanism with respect thereto for engaging the pipe-gripping element to move it toward operative position upon movement of the rollers relative to the pipe-gripping mechanism.

**2,650,071**
## MINING DRILL
**Theodore E. Rassieur, University City, Mo., assignor to Central Mine Equipment Company, St. Louis, Mo., a corporation of Missouri**
**Application March 10, 1950, Serial No. 148,826**
**7 Claims. (Cl. 255—61)**



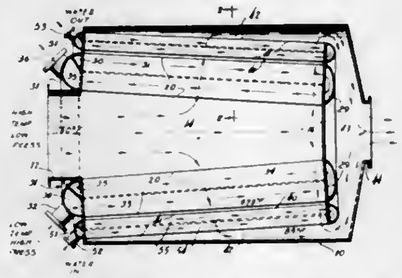
1. A mining drill comprising a rotary drill socket and a cutting head removably secured to said socket, said socket having an axially-disposed mouth at its forward end, said cutting head having an elongate shank received within said mouth and a cap abutting against the forward end of the socket, said cap and said elongate shank being segmented in the lengthwise direction to form identical segments, each segment having a web projecting forwardly and outwardly from the cap, the outer part of said web being relatively thick and having a bit head at its forward extremity, the inner part of said web being beveled to a core-breaking edge which extends forwardly and outwardly from the cap toward said bit head, said beveled core-breaking edges of the respective segments being in intersecting relationship with one another forward of said cap.

**2,650,072**
## MULTIPLE EXPANSION ROTARY DRILL BIT
**Archer W. Kammerer, Fullerton, Calif.**
**Application August 18, 1950, Serial No. 180,167**
**19 Claims. (Cl. 255—76)**



1. In an expansible drill bit: a body; a plurality of individual cutter means mounted on said body for lateral movement with respect to said body and circumferentially disposed around said body; one of said cutter means being shiftable laterally outward to a greater maximum extent than another of said cutter means to trace an annular cutting path outside the cutting path traced by said another cutting means; means engageable with all of said individual cutter means for so shifting said individual cutter means laterally outward; elastic means acting on said shifting means for urging said shifting means in a direction to expand said cutter means laterally outward; and means engageable with said shifting means for preventing substantial retraction of all of said individual cutter means from their maximum expanded positions.

**2,650,073**
## COMBINED REGENERATOR AND PRECOOLER FOR GAS TURBINE CYCLES
**Sven Holm, Wellsville, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.**
**Application June 25, 1949, Serial No. 101,458**
**3 Claims. (Cl. 257—6)**



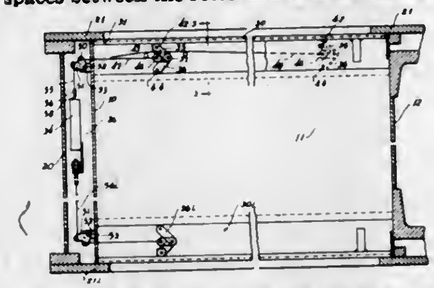
1. In heat exchange apparatus for use in gas turbine cycles or the like; a regenerator comprising: a hollow centered heat exchanger core having inner and outer sets of axially extending passages for a gaseous fluid to be heated and a transverse set of passages for a relatively hotter gas extending from the central space of the core to its outer margin; means for admitting fluid to be heated to the outer set of axial passages at one end thereof; means forming a header at the opposite end of said core for connecting the inner and outer sets of axial passages in series flow relation; an outlet header connecting with the outer set of passages at the other end of the core; means forming an inlet for admitting the heating gas to the central space within said core at said one end; a precooler comprising a second hollow centered core closely embracing the first and having transverse passages for flow of the heating gas aligned in series flow relation with the transverse passages of the first core and inner and outer sets of axially extending passages interconnected for flow of a cooling fluid in similar manner to that in said regenerator; a casing surrounding said second core in spaced relation thereto to form a header chamber for gas discharged from the transverse passages of said second core; and an outlet chamber in said casing beyond said core closure and communicating with said last header chamber; and an offtake leading axially from said outlet chamber.

**2,650,074**
## SPRING OR GRAVITY BIASED RADIAL SEAL
**Clayton A. Ballard, Belmont, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.**
**Application October 12, 1950, Serial No. 189,753**
**6 Claims. (Cl. 257—6)**

1. In a regenerative air preheater having a rotor made up of a cylindrical shell joined to a rotor post by radial partitions forming compartments that carry heat transfer material, and a housing surrounding the rotor and provided

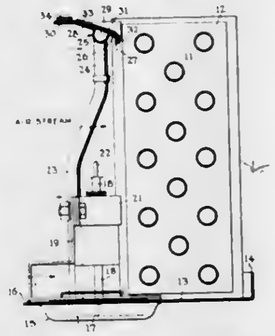


opposite the latter with end plates formed with circumferentially spaced apertures for the flow of heating gases and air to and through the rotor; a pair of sealing strips mounted respectively on the upper and lower radial edges of said partitions for free movement axially of the rotor and projecting outwardly from the latter into the spaces between the rotor and said end plates with



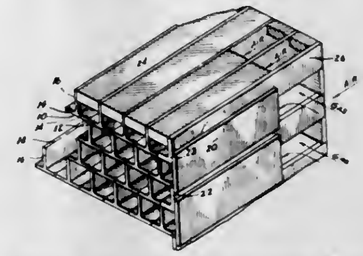
their radially extending edges engageable with said end plates; means freely connecting the two radial sealing strips on each partition to each other; and means acting on and through said connecting means to apply a force to said two sealing strips to move them in opposite directions axially of the rotor with respect to said partition for maintaining them in contact with the adjacent end plate.

**2,650,075**
## ATMOSPHERIC CONDENSER FOR REFRIGERATING SYSTEMS
**John M. Andrews, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware**
**Application September 6, 1951, Serial No. 245,325**
**3 Claims. (Cl. 257—37)**



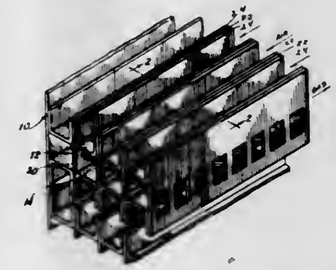
1. The combination of a condenser having a plurality of vertical, closely spaced plate-like fins; means for causing a horizontal stream of air to flow through the inter-fin intervals; a trough closed at its ends and having lateral margins at least one of which is inclined downwardly, the trough extending along the upper edge of the entrance face of the condenser with said downwardly inclined margin close to the edges of the fins; a lid adapted to seat against said margins and close the top of said trough, said lid being hinged remotely from the downwardly inclined margin and shaped to conform to the latter; means biasing said lid in the closing direction; and means for continuously delivering water under low pressure to said trough.

**2,650,076**
## HEAT EXCHANGER CORE WITH BEAM COMPONENTS
**William E. Hammond, Wellsville, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.**
**Application May 22, 1951, Serial No. 227,676**
**4 Claims. (Cl. 257—245)**



1. A heat exchanger core made up of a plurality of rows of metallic structural shapes mounted in side by side relation in each row and having upright stems intermediate lateral flanges with the side faces of the latter in abutment and in contact with the end portions of the upright stem of the members in the adjacent row to form fluid passage sections bounded on two opposite sides by the stems of contiguous members and on the other pair of sides by the abutting lateral flanges of two contiguous members in one row and on the other side by the lateral flanges of the member in the adjacent row; and weld joints uniting the said lateral flanges of contiguous members in one row together and to the stems of members in the adjacent row.

**2,650,077**
## HEAT EXCHANGER ENVELOPE COMPRISING ASSEMBLED CHANNELS AND PLATES
**William E. Hammond, Wellsville, and Clayton A. Ballard, Belmont, N. Y., assignors to The Air Preheater Corporation, New York, N. Y.**
**Application June 8, 1951, Serial No. 230,544**
**4 Claims. (Cl. 257—245)**

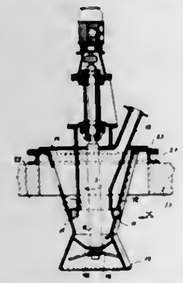


1. A heat exchanger envelope comprising a plurality of U-shaped metallic channel members mounted in closely spaced side by side relation in upright and inverted relation in either of two parallel rows so that the channel bases aline in each row to form parts of opposite walls of a fluid passage located between the two rows of channel members; plane plate members interposed between the side legs of contiguous upright U-shaped channel members in one row in contact with the outer faces thereof and projecting beyond the bases of the channels in said row to extend between the side legs of similar channel U-shaped members disposed in inverted

relation in the opposite row with the end faces of said plates located in the plane of the longitudinally extending end faces of the legs of the channel members in both rows; and longitudinal welds along the end faces of said plates and channels uniting them to form a unitary envelope with longitudinal fins on its outer walls constituted by the legs of said channel members and the intervening portions of said plates.

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**2,650,078**
**APPARATUS FOR THE PRODUCTION OF CALCIUM SUPERPHOSPHATE**
**Ferdinand Steichen, Anderlecht (Brussels), and Alexandre Debaisieux, Tournai, Belgium**
**Application October 13, 1950, Serial No. 190,022**
**In Belgium October 25, 1949**
**3 Claims. (Cl. 259—8)**

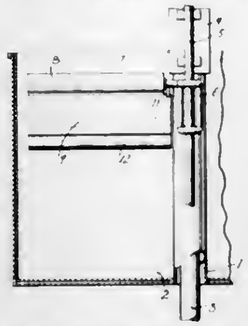


1. A mixer for the production of calcium superphosphate by the mixing of ground natural phosphate containing carbonate and a mineral acid comprising a mixing vessel open at its bottom, a lower frustro-conical wall for this vessel which diverges downwardly and has its axis vertical, the angle of the generatrices of said wall with the vertical axis being comprised between 20 and 30°, an agitator with a vertical axis rotating in said lower frusto-conical wall, pairs of opposite blades on said agitator disposed at three levels and extending all the further from the axis of the agitator as they are at a lower level, the horizontal projection of the blades at each level having an area at the maximum equal to one quarter of the difference between the cross-section of the mixing vessel at the level considered and the cross-section of the axis of the agitator, the blades of the upper level being curved upwardly, those of the middle level being flat and directed at right angle in relation to the blades of the upper level and those of the lower level being curved downwardly and in the general direction of the blades of the upper level, and means for causing the materials to be mixed to fall onto said blades.

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**2,650,079**
**MIXING KETTLE FOR CHEESE CURD**
**Karl Zeller and Konrad Lenz, Freising, Germany, assignors to Anton Steinecker Maschinenfabrik A. G., Freising, Germany, a firm**
**Application November 15, 1950, Serial No. 195,716**
**In Germany February 3, 1950**
**1 Claim. (Cl. 259—101)**

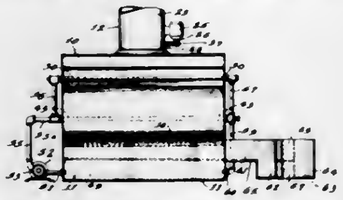
A mixing kettle for stirring a partially liquid mass, said kettle comprising: a tube extending vertically upwardly within the kettle; an oscillatable drive shaft rotatable within said tube, head means fixed to said drive shaft at the upper end thereof for oscillation therewith; guide means carried by said head for oscillation therewith; vertically movable supporting means engaging said guide means; a horizontally extending supporting arm carried by said frame; float means freely rotatably mounted on said arm for vertical displacement thereof; a stirring blade connected to said float for oscillation therewith, said stirring blade comprising a downwardly extending upper plate portion and a lower flexible flap portion, said pivotal connection causing said stirring blade to be angularly displaceable about



a horizontal axis; and stop means carried by said frame and engageable with said stirring blade for limiting said angular displacement to two opposite angles from the vertical whereby said stirring blade will be dragged through said liquid by said oscillating arm and will be angularly displaced through one of said angles into an oblique position by stirring engagement therewith, said oblique position being determined by engagement of said blade with said stop means.

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**2,650,080**
**WASTE COATING MATERIAL LOCALIZER**
**George A. Harker, George J. Kneti, and Roy Nelson, Chicago, Ill., assignors to Binks Manufacturing Company, Chicago, Ill., a corporation of Delaware**
**Application May 16, 1950, Serial No. 162,244**
**8 Claims. (Cl. 261—8)**

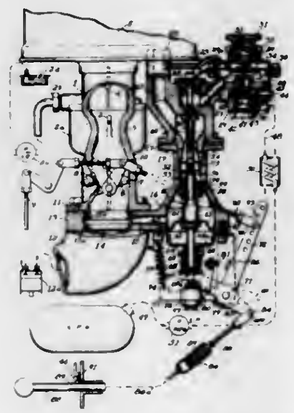


1. A waste coating material localizer for a spray receiving chamber having an inclined wall over which flows a sheet of liquid for capturing fugitive particles of coating material and to flow down with the same to the lower end thereof, an elongated channel formed receptacle having an open top near the lower end portion of said inclined wall for directly receiving throughout the length of said channel and along the base of said inclined wall said liquid and fugitive particles of coating material, said channel at an end thereof and spacedly beyond said chamber and said inclined wall being provided with a receiving and settling well which is in direct communication with said channel for the flow into said well from said channel of said liquid and material, said well extending down from said channel to receive the liquid and material at a lower level than in said channel where said liquid and material will be at rest for settling of said material in said well, and means for conducting the liquid cleared of said material from said well.



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**2,650,081**
**SYSTEM OF AUXILIARY CARBURETION FOR INTERNAL-COMBUSTION ENGINES**
**Edward A. Rockwell, Shaker Heights, Ohio**
**Application October 2, 1948, Serial No. 52,518**
**21 Claims. (Cl. 261—16)**

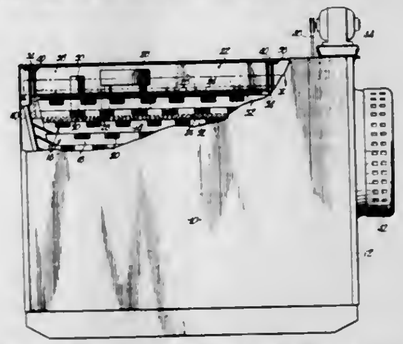


1. In a carbureting apparatus for use with an internal combustion engine, comprising manually operated separate means to control separate charges of air and fuel, including means to combine the said charges for utilization in the engine, and an additional control element therefor, having a lost motion located between the separate means and including additional means, movable independently of said first mentioned means, to operate the same, said control means including throttle valves for the separate charges having an operatively movable connecting means between the same for enabling at least one of the valves to move through a complete range of movement in the operation thereof and so as to provide for another of the valves at times a range of movement the same as the movement of the other said valve by means of said operative connection but merely at such times as determined by said additional control element in the operation thereof.

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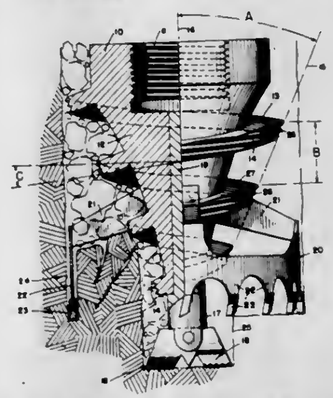
**2,650,082**
**COOLING TOWER HAVING SPLASH DECK SUPPORTED BASIN**
**Leon T. Mart, Mission Township, Johnson County, Kans., assignor to The Marley Company, Inc., Kansas City, Kans., a corporation of Kansas**
**Application July 9, 1951, Serial No. 235,802**
**2 Claims. (Cl. 261—110)**

1. In a cooling tower, the combination of a splash deck assembly including a plurality of wood decks arranged in stacked relationship for free expansion and contraction as the assembly becomes saturated with water flowing therethrough and dries during nonuse; a water basin having a perforated bottom; and water diffusion means interposed between said bottom and the assembly, said water basin and the diffusion means resting directly on the assembly for movement therewith during said expansion and contraction of the assembly.



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**2,650,083**
**COAL DRILL**
**James S. Robbins, Highland Park, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois**
**Application December 29, 1950, Serial No. 203,368**
**2 Claims. (Cl. 262—19)**



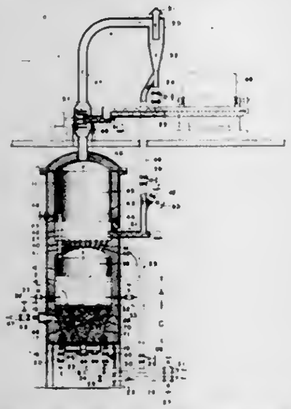
1. A rock drill, comprising a rotary head, a pilot bit positioned to form a bore axially alined with said head, a cutter on said head positioned to cut an annular kerf around and spaced from said bore, a burster formation on said head behind said pilot bit, being in the form of a broad crested conically spiral rib on a central body, said rib being of less diameter at its forward end than said bore, having an axially directed screw conveyor surface and having its crest threaded with spiral convolutions of less pitch than that of said spiral rib.

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**2,650,084**
**CALCINING LIME BEARING SLUDGES**
**Frank S. White, Stockbridge, Mass., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware**
**Original application June 28, 1946, Serial No. 680,191. Divided and this application February 26, 1949, Serial No. 78,569**
**3 Claims. (Cl. 263—53)**

1. The process for retaining fine solids in an incandescent fluidized bed for treatment therein

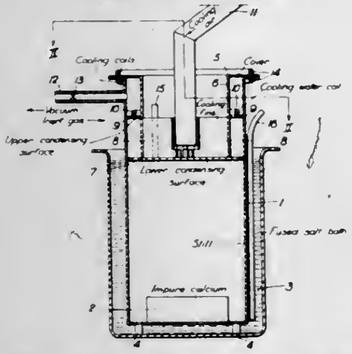
under conditions for normally entraining such fine solids, which comprises establishing and maintaining a fluidized bed containing relatively coarse incandescent bed solids by supplying such coarse solids to the bed while upflowing gas therethrough at a velocity sufficient to maintain the solids in a turbulently mobilized non-stratifying fluidized condition, continually supplying to the bed for treatment therein gas-entrained fine solids, said solids lying in a size and specific gravity range that would normally be entrained



by the fluidizing gas at the velocity selected to fluidize the bed, discharging from the bed a mixture of bed solids and treated fine solids, and retaining such fine solids in the bed until they have been treated therein and subsequently discharged therefrom by maintaining the relatively coarse bed solids to lie in a size range of from substantially −14 to substantially +65 screen mesh, whereby fine solids are retained in the bed for treatment therein under conditions which would normally entrain such fine solids and carry them from the bed.

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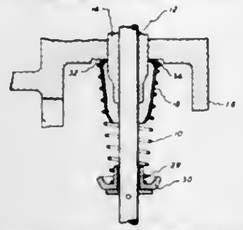
**2,650,085**
**APPARATUS FOR THE PURIFICATION OF CALCIUM**
**Robert Le Grice Burnett, Overton, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain**
**Application July 29, 1946, Serial No. 686,959**
**In Great Britain August 24, 1945**
**1 Claim. (Cl. 266—19)**




An apparatus for use in the purification of calcium containing an alkali metal as an impurity which comprises a still, means for maintaining therein an inert gas at a reduced pressure, means for vaporising metal which is in the lower part of said still, a removable cover for said still, a tubular member carried by and extending downwards from said cover, a flat horizontal ferrous plate closing the lower end of said tubular member and occupying almost the whole cross section of the still but leaving a space between its periphery and the wall of the still through which vapour can ascend, said plate constituting a lower condensing surface, internal fins in said tubular member, means for circulating a cooling medium over said fins whereby said plate is maintained at a temperature at which calcium will condense thereon, a flat horizontal ring carried by said tubular member in the space between itself and the wall of said still, said ring constituting an upper condensing surface, a pipe coil on said ring, and means for circulating a cooling medium through said pipe coil whereby said ring is maintained at a temperature such that the alkali metal will condense thereon.

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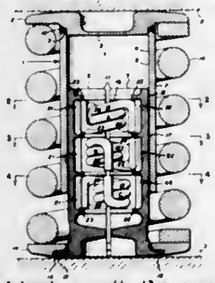
**2,650,086**
**SPRING DAMPENER**
**John L. Sjolander, Cleveland, Ohio, assignor to Cleveland Wire Spring Company, Cleveland, Ohio, a corporation of Ohio**
**Application January 31, 1947, Serial No. 725,546**
**1 Claim. (Cl. 267—1)**



A spring and dampener assembly comprising a conical coil spring, a split resilient metal bushing of generally conical shape expanded into said spring, said spring having a convolution of reduced size at one end thereof to form an abutment for one end of said bushing, said bushing having an in-turned flange at its larger end to engage with said abutment.

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**2,650,087**
**CUSHIONING MECHANISM**
**George F. Vala, Chevy Chase, Md., and Glenn F. Couch, Buffalo, N. Y., assignors to The Symington-Gould Corporation, Depew, N. Y., a corporation of Maryland**
**Application September 29, 1950, Serial No. 187,582**
**12 Claims. (Cl. 267—9)**

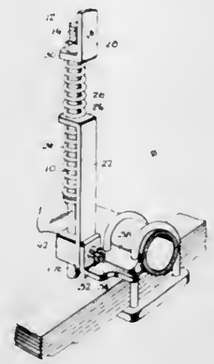


1. In a cushioning unit, the combination of, a sleeve, a plurality of shoes arranged to frictionally engage said sleeve, spring means extending between said sleeve and shoes for urging them apart axially of said unit, and a plurality of torsion springs within said shoes, each of said torsion springs having a coil portion and end portions outstanding from said coil portion, said coil portions being spaced from and said end portions engaging said shoes for urging the latter radially of said unit into frictional engagement with said sleeve.



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**2,650,088**
**DOUBLE-ACTING SHOCK ABSORBER AND STABILIZER**
**Alois Formanek, Chicago, Ill.**
**Application May 29, 1951, Serial No. 228,828**
**5 Claims. (Cl. 267—28)**

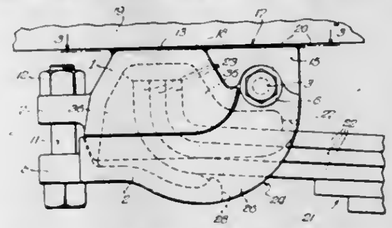


1. A preset tension shock absorber for vehicles comprising a long rod, an L-shaped bracket, an aperture through the short leg of said L-shaped bracket through which said rod extends, helical springs mounted about said rod, below and above said apertured leg, the lower end of said rod having thereon a spindle, a bearing block slidable engaging said spindle end of said rod, a means mounted on said rod above said spindle to preset the tension of lower helical spring, a means mounted on upper end of said rod to preset the tension of the upper helical spring, a means to mount said upper end of rod to the body of a vehicle, and a means to mount said L-shaped bracket and said bearing block to the wheel support of the vehicle.

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**2,650,089**
**SPRING SHACKLE**
**William E. Martin, Kewanee, Ill.**
**Application May 24, 1949, Serial No. 95,069**
**12 Claims. (Cl. 267—30)**

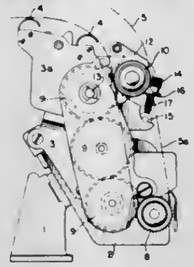
1. A vehicle spring shackle comprising a two piece housing, operable hinge means to join said housing pieces together and to allow separation thereof about a predetermined axis, a vehicle spring having an upturned end to nest within said housing pieces, and coacting resilient members carried by the two housing pieces to snugly confine the upturned spring end within said housing, and clamp means cooperating with said operable hinge means to keep the two housing pieces together to hold said resilient members in place about said spring end, said housing pieces being separable about said hinge means axis upon release of said clamp means to allow withdrawal



of the upturned spring end from said housing pieces and from the associated resilient members.

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**2,650,090**
**STRIP FEEDING APPARATUS**
**John T. Davidson and Percy G. Stimson, Dayton, Ohio, assignors to The Standard Register Company, Dayton, Ohio, a corporation of Ohio**
**Application December 11, 1946, Serial No. 715,556**
**12 Claims. (Cl. 271—2.3)**



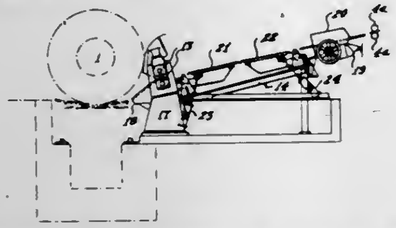
1. A record strip feeding apparatus for progressively advancing a strip of record material past a recording position, including a main frame, a revoluble feed shaft, a pair of oscillatory supports in which the feed shaft is journaled, a pair of strip engaging devices mounted on the feed shaft, a revoluble platen roll journaled in the main frame in parallel relatively spaced relation with the feed shaft, a drive connection for rotating the strip engaging devices on the feed shaft and the platen roll at uniform peripheral speeds, means for oscillating the supports of the feed shaft to shift the strip engaging devices thereon toward and from the platen roll, the construction and arrangement being such that the record strip defines an elongated bight enclosing the platen roll, the opposite sides of which are simultaneously engaged by the strip engaging devices upon the feed shaft, the tension of which bight of record strip material may be regulated by the aforementioned adjustment of the feed shaft to maintain the record strip in close conformity with the platen roll.

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**2,650,091**
**SHEET CUTTING AND INSPECTING MEANS**
**Carl W. Martin, Charles W. Beck, and Joseph W. Pick, Middletown, Ohio, assignors to Armco Steel Corporation, a corporation of Ohio**
**Application September 8, 1947, Serial No. 772,728**
**7 Claims. (Cl. 271—2.3)**

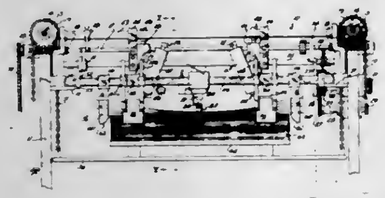
1. In combination for the purpose described, a decoiling mandrel, a roll stand having two pairs of pinch rolls mounted therein, one pair being adapted to receive material withdrawn from the

bottom of a coil of sheet stock mounted on said mandrel and the other pair being located to receive material withdrawn from the top of a coil of sheet stock so mounted.



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**2,650,092**
**MAGNETIC SEPARATOR FOR SHEET FEEDING APPARATUS**
**Lloyd W. Wall, Oaklawn, Ill., assignor to Caspers Tin Plate Company, Chicago, Ill., a corporation of Illinois**
**Application November 23, 1948, Serial No. 61,643**
**8 Claims. (Cl. 271—18)**

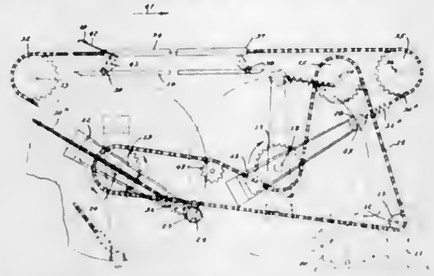


1. A magnetic separator for metal sheet feeders which comprises an assembly of permanent magnets extending along and arranged to act on the edges of a stack of sheets in the feeder, each of said magnets having a non-magnetic deflecting shield extending thereover and beneath the lower margins thereof, supports for said magnets including support bars spaced above and extending generally along the edges of the sheets of a stack of sheets and mounted for adjustable movement with respect to each other in accordance with the perimeter of the sheets of the stack of sheets, and vertically movable supports carrying said magnets and mounted on said support bars for adjustment therealong, said vertically movable supports mounting said magnets on said support bars to accommodate said magnets to freely move vertically upon engagement of the top surface of a misaligned sheet with said deflecting shields.

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**2,650,093**
**BLANK FEEDING MECHANISM**
**Albert F. Shields, Forest Hills, N. Y., assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y., a corporation of New York**
**Application March 3, 1949, Serial No. 79,427**
**3 Claims. (Cl. 271—44)**

A machine for operating on box blanks; said machine comprising a blank feeding carriage; a feed slat secured to said carriage; said carriage being movable along a line transverse to the main axis of the feed slat; a flexible longitudinal member connected at each end of the carriage and extending along the line of the path of travel of the carriage beyond each end of the carriage; a first rotatable crank member operating in an orbit which is included in the plane of movement of said flexible longitudinal member and connected to a free end of said flexible longitudinal member; a second rotatable crank member operating in an orbit coplanar with the orbit of the first crank member but in an opposite direction and connected to the other free end of said flexible longitudinal member; said cranks during rotation each going through a half cycle



in which it pulls on its end of the flexible longitudinal member and a half cycle in which it permits its end of the flexible longitudinal member to be pulled; said pulling half cycles being alternated for each crank; and guide means for said flexible longitudinal member at each end of the path of travel of the carriage confining the portion of the flexible longitudinal member between said guide means in a straight line.

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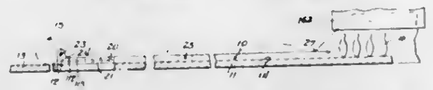
**2,650,094**
**DRIVING SKILL TEST GAME APPARATUS**
**Josef W. Zimmer, Glendale, Mo.**
**Application August 4, 1950, Serial No. 177,739**
**4 Claims. (Cl. 273—1)**



1. A game comprising a steerable model truck, a model truck-trailer hauled by said truck, a game board constituting a playing field, said board having a plurality of different lines thereon occupying the same general area each of which denotes a definite course over which the truck and trailer are to be steered in taking a specified type of test, at least one of said lines having one portion thereof designated in a different manner from another portion thereof to indicate that the truck and trailer are to be moved forward on one portion and backed up on the other, with arrowheads on each line to indicate direction of movement, model barriers, and marked areas on the board designating positions for placement of said barriers during different tests, said areas corresponding in outline to the outline of the base of model barriers to be placed thereon and being positioned relative to the course lines as to allow only limited room for maneuvering the truck and trailer without touching the barriers when the barriers are in place, the arrangement being such that a group of barriers may be set up for any one test and subsequently removed so as not to interfere with manipulation of the truck and trailer in another test.



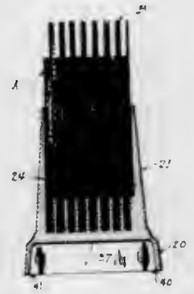
**2,650,095**
**FOUL DETECTING DEVICE**
**James A. MacLagan, Forest Park, and Thaddeus A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee**
**Application May 28, 1947, Serial No. 751,082**
**11 Claims. (Cl. 273—50)**



1. For use with a bowling alley having a foul line dividing it into a runway and a ballway and having equipment associated with the alley including means for disclosing a commission of a foul, an apparatus including a device actuated by a body such as a bowler's foot present above and proximate to the foul line and constituting the sole means for detecting infractions of the rules of play at the foul line, a second device spaced from the first and actuated by a body touching the alley upon the ballway, means controlled by the operation of one of said devices for operating said equipment, and means actuated by a ball in motion beyond the second device for removing said foot detecting device from operation while maintaining operativeness of said second device.

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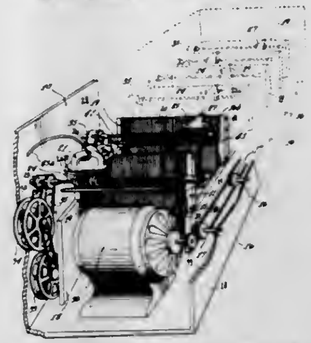
**2,650,096**
**SHUFFLER FOR PLAYING CARDS**
**Louis E. Almgren, Oak Park, Ill.**
**Application December 9, 1949, Serial No. 132,048**
**1 Claim. (Cl. 273—149)**



A playing card shuffler comprising a molded one-piece rectangular shaped container having side walls, a bottom wall and an open top adapted to receive a pack of playing cards, two series of similar opposed partition walls extending respectively from opposite narrow walls of the container toward each other but terminating short of the center of the container, and each partition wall of each series consisting of a plate-type member having smooth surfaces and sharply defined edges, the lower marginal edges of some cards of said pack being supported on said bottom wall while the lower marginal edges of the remaining cards of said pack are supported by said partition walls to dispose upper regions of said cards in different planes to effect separation of said cards into groups, said groups defining a lower group and an upper group, respectively, alternatively arranged, and each group being arranged for separate manual removal from the container.



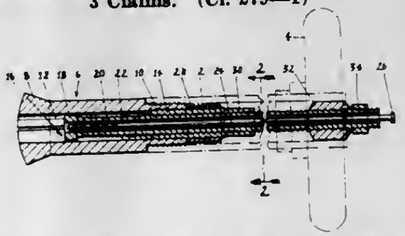
**2,650,097**
**SPEAKING DICTIONARY**
**Leslie L. Erdos, New York, N. Y.**
**Application June 28, 1947, Serial No. 757,754**
**14 Claims. (Cl. 274—1)**



1. In a device of the class indicated, an endless substantially wide belt carrying a great plurality of parallel sound tracks in a side by side relation, each sound track being independent of all the others and adapted to reproduce a predetermined oral enunciation of its own, a longitudinally movable band carrying a plurality of graphical representations, each successive such representation having a predetermined relation to a respective successive sound track on said belt, a sound producing head, means to move said sound head transversely across said belt and the tracks thereon without operatively engaging the same, means to cause said belt to rotate; and means to cause synchronized movements between said sound head and said band including a rotatable member on said sound head, a shaft engaged by said member and rotatable therewith, said shaft carrying means to cause longitudinal movement of said band upon the rotation of the shaft, and means to cause said member to rotate upon the movement of the sound head across said belt.

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**2,650,098**
**THREADED STOPPER ATTACHMENT FOR INTERNALLY THREADED LATHE CHUCKS**
**Jesse A. Darling, Jackson Heights, N. Y.**
**Application October 1, 1952, Serial No. 312,497**
**3 Claims. (Cl. 279—1)**

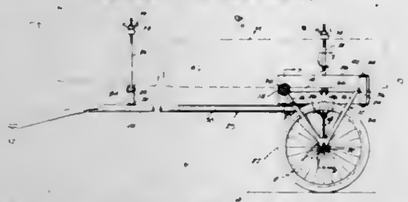


1. In a lathe having a draw-in spindle and a hand wheel provided at one end of said draw-in spindle, a chuck provided with an axial bore and having a head portion as well as an internally and externally threaded end portion and said externally threaded portion being adapted to be screwed into that end of the draw-in spindle which is opposite the end provided with said hand wheel, an internally and externally threaded tubular member being partially screwed into the internally threaded end portion of said

chuck in such a manner that a portion thereof protrudes outwardly beyond said end portion of said chuck, a first lock nut screwed upon that portion of said tubular member which protrudes beyond said end portion of said chuck, a screw having a head portion and a threaded shaft portion and being provided with an axial bore being screwed through said tubular member and extended into the axial bore of said chuck in such a manner that its head portion is near the head portion of said chuck while the main section of its shaft portion protrudes beyond the threaded end portion of said chuck through the draw-in spindle of the lathe to which that chuck is attached, a second lock nut adjacent said tubular member being screwed upon the shaft portion of said screw, an internally threaded sleeve member having tapered outer end portions being screwed upon the end section of the shaft portion of said screw, a third lock nut adjacent said sleeve member being screwed upon the shaft portion of said screw, and a rod slidably extending through the axial bore in said screw.

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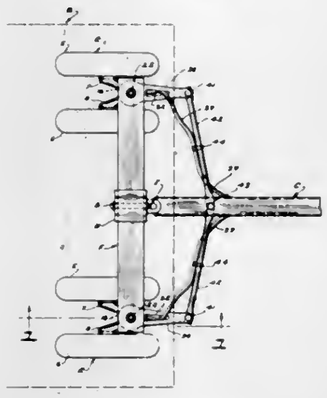
**2,650,099**
**BOAT TRAILER**
**Eugene P. Keaton, Andrews, S. C.**
**Application September 21, 1951, Serial No. 247,611**
**3 Claims. (Cl. 280—33.4)**



1. In a boat trailer, a frame adapted for supporting a boat thereon, said frame including means at one end thereof for attachment to a traction vehicle, a transversely disposed cross member at its other end, and a pair of side frame members rigid with the opposite ends of the cross member; a pair of wheel supports arranged along side of the respective side frame members, each wheel support being proportioned to include a pair of horizontally aligned upper corner portions and a lower corner portion disposed below and equidistant from the upper corner portions; means pivotally connecting one upper corner portion of each support to the side frame member adjacent thereto; a ground wheel carried by the lower corner portion of each support; a sleeve rigid with each side frame member slotted to receive the other upper corner portion of said support, said other upper corner portion sliding endwise of and within said sleeve; a pair of springs arranged at opposite sides of said other upper corner portion within the sleeve and adapted to resiliently and cushionably limit endwise movement thereof within the sleeve; a pair of wheel support braces disposed transversely of the frame below the cross member thereof, each brace being connected at one end to the lower corner portion of a wheel support and being inclined upwardly from said one end thereof to terminate, at its other end, in closely spaced relation to the mid-length portion of the cross member, said other ends of the wheel support braces being spaced apart transversely of the frame below said mid-length portion of the cross member; a bracket of inverted U-shape secured to said mid-length portion of the cross member and having depending legs formed with openings loosely receiving said other ends of the respective wheel support braces, said wheel support braces having limited pivotal and endwise movement within the openings; and a pair of resilient washers circumposed about said other end of each brace and engaging opposite sides of the associated leg of the bracket to provide means cushionably limiting said pivotal and endwise movement of the braces.

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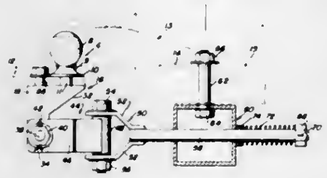
**2,650,100**
**STEERABLE TRAILER FRONT WHEEL MECHANISM**
**Adolph Ronning, Minneapolis, Minn.**
**Application May 10, 1948, Serial No. 26,203**
**4 Claims. (Cl. 280—33.5)**



1. In a trailer-type vehicle support of the character described, the combination comprising a pair of transversely spaced front supports for the vehicle each having a pair of oppositely upwardly and downwardly movable differentially connected wheels, means mounting the supports for steering movements, connecting means extending between the supports and operative to steer the same, a draft tongue mounted for swinging movement and connected to said connecting means for steering the supports, and means for selectively disengaging the steering connecting means and tongue from the supports and locking the tongue in a straight forwardly extending position.

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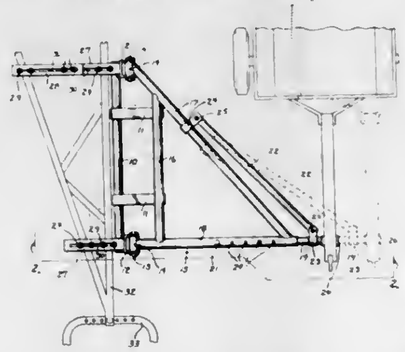
**2,650,101**
**AUXILIARY TYPE SAFETY TRAILER HITCH**
**Thomas L. Frankfother, Oklahoma City, Okla., assignor of fifty per cent to A. D. Larson, Oklahoma City, Okla.**
**Application July 13, 1951, Serial No. 236,597**
**2 Claims. (Cl. 280—33.9)**



1. In a structure of the class described, in combination, a draft member, an adapter bracket having a portion fitted against the bottom of said draft member, a hitch unit seated atop said draft member, means piercing said draft member and joining said hitch unit and adapter bracket together and clamping the draft member therebetween, said adapter bracket having a depending portion provided with a bolt accommodating bearing, said bearing being horizontally disposed, a bolt mounted in said bearing, a first horizontally disposed clevis having arm portions straddling said adapter bracket and hingedly connected to cooperating end portions of said bolt, said clevis having a vertical bearing integral therewith, a second vertically disposed clevis having arms straddling upper and lower end portions of said last-named bearing, an assembling and pivoting bolt joined with the last-named clevis arms and mounted for rotation in said last-named bearing, a yoke in the form of a frame, said yoke being adapted to be bolted on a trailer tongue, a rod having an intermediate portion slidable through bearing openings provided therefor in vertical portions of said yoke, said rod having a leading end integrated with said second-named clevis and having a trailing end projecting rearwardly beyond said yoke, and a cushioning spring encircling said rearwardly projecting end portion and bearing against an adjacent portion of said yoke.

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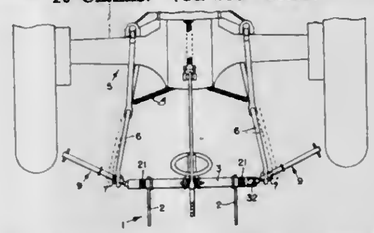
**2,650,102**
**REVERSIBLE WAGON DRAWBAR**
**Carl M. Goodspeed, Fort Dodge, Iowa**
**Application September 14, 1950, Serial No. 184,816**
**2 Claims. (Cl. 280—33.44)**



1. In a hitch for towing a wagon at one side of a combine, a main frame, a means on said main frame for securing it to a combine tongue at times, a secondary frame hingedly secured to said main frame; said secondary frame generally in the shape of an A and having the forward side and the cross bar forming a right angle with each other; and said forward side of said secondary frame being hollow, stop members rigidly secured to said main frame to limit the hinging movement of said secondary frame with respect to said main frame, a drawbar rod slidably fitting inside said hollow forward side of said secondary frame, a means for securing said drawbar rod in a fixed relation to said secondary frame at times, and a brace member hingedly secured by one of its ends to said drawbar rod near its outer end and slidably and hingedly secured at its other end to the rear side of said secondary frame; said stops on said main frame being secured to said main frame at equal distances from its respective ends.



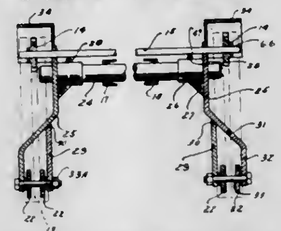
**2,650,103**
**COUPLING FOR LIFT TYPE DRAFT DEVICES**
**William P. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois**
**Application March 16, 1951, Serial No. 215,982**
**10 Claims. (Cl. 280—33.44)**



5. A tractor-implement hitch construction comprising a combination with a tractor hitch linkage of the type including a pair of generally laterally and vertically swingable tension links, each having an apertured ball at its outer end rockably mounted therein and a pair of hitch pins, each having an inner implement-receiving end adapted to be inserted through the aperture in the associated rockably mounted ball and an outer handle end by which each hitch pin may be inserted into the associated rockable ball and shifted to various angular positions relative to the associated tractor link, of an implement hitch structure including a transverse member having axially inwardly extending sockets at its ends adapted to receive the inner end portions of said hitch pins, the inner ends of said pins and the outer ends of said sockets being so shaped, one relative to the other, that the tractor may be maneuvered into a position in which the ball ends of said links are close to but not necessarily in a position of alignment with said transverse hitch member, whereupon the inner ends of said hitch pins, carried by said rockable balls at the outer ends of said tension links, may be inserted part way into the outer ends of said sockets and the handle portions of said links then utilized as levers to force the ball ends of said tension links into arcuate alignment with said implement transverse member and the hitch pins then inserted all the way into the associated sockets, and means carried by said transverse member for holding said hitch pins in their fully inserted positions in said sockets.

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**2,650,104**
**LATERALLY EXTENSIBLE SUPPORTS FOR TRACTION ELEMENTS**
**Theodore E. Grace, Detroit, Mich.**
**Application December 23, 1949, Serial No. 134,814**
**2 Claims. (Cl. 280—34)**



1. In a vehicle construction of the class described, comprising: a chassis having longitudinally extended rails; transversely extended supporting members mounted on said rails and pro-

jecting outwardly beyond opposite sides of said chassis; a plate positioned outwardly of opposite sides of said chassis and extending downwardly and thence angularly turned outwardly and thence extended downwardly in parallel relation to the upper portion of the plate; a second plate secured to said angularly turned portion adjacent the upper end thereof and extending in parallel relation to the upper portion of said plates; axles mounted on the lower portions of said plates; traction wheels mounted on said axles; a supporting member projecting inwardly from the inner side of each of said first mentioned plates adjacent the upper edge thereof in alignment with each of said transversely extended supporting members and engaging the same in telescopic relation and movable inwardly and outwardly thereof for moving said traction wheels inwardly and outwardly of said chassis.

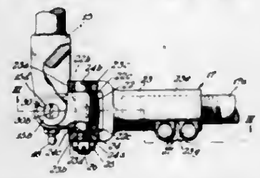
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**2,650,105**
**LUGGAGE CARRIAGE**
**Kent R. Costikyan, Montclair, N. J.**
**Application July 20, 1949, Serial No. 105,823**
**1 Claim. (Cl. 280—35)**



In a luggage carriage having a pair of complementary members, each member comprising a one-piece, rigid structure having a narrow, elongated, planar bottom panel of quadrilateral configuration; a pair of elongated, planar side panels of quadrilateral configuration flanking opposite sides of said bottom panel, and each side panel having one side edge secured to a corresponding side edge of said bottom panel, each of said side panels being arranged about normal to each other and at an angle of about 135° to said bottom panel to provide a receptive seat for a portion of a bottom end edge of a rectangular piece of luggage; a cross bar providing an end piece extending between, and secured to the upper end portions of, the pair of outboard end edges of said side panels, said cross bar having a downwardly facing medial strap seat extending longitudinally of said bar; each of said side panels being longitudinally slotted for reception of fastening means and having a glide button-clearance notch in its outer edge in the vicinity of said cross bar; and a pair of axle-apertured spaced ears for reception of a wheel therebetween to be rotatably supported thereby, said ears being mounted on the bottom side of and extending out away from said bottom panel about normal thereto and about parallel to each other and to said cross bar with one ear located in the vicinity of the outboard end of said bottom panel nearest said cross bar.

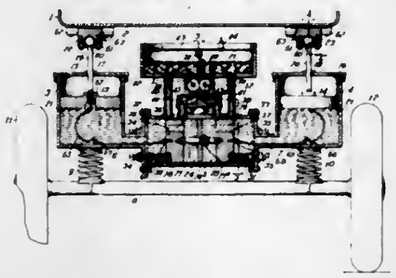
**2,650,106**
**STEERING KNUCKLE AND TIE ROD CONNECTION**
**Oliver S. French, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application May 27, 1950, Serial No. 164,708**
**8 Claims. (Cl. 280—95)**



2. A joint for pivotally connecting a tie rod to a steering arm comprising an attaching block, yoke means pivotally attaching the tie rod to said attaching block for pivoting of the tie rod in a vertical plane with respect to said attaching block, and yoke means pivotally attaching the steering arm to said attaching block for pivoting of the attaching block in a horizontal plane, both of said yoke means comprising a member with substantially parallel arms having a first hole formed transversely through one of said arms coaxial with a second threaded hole formed transversely through the other of said arms, a mating cylindrical hole in said block coaxial with the holes through said yoke arms, a generally cylindrical pin inserted through the first hole in said yoke arm and having a threaded end threadedly inserted into the threaded second hole in said other yoke arm, said cylindrical pin acting as a bearing journal in the cylindrical hole through said block.

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**2,650,107**
**STABILIZING DEVICE FOR VEHICLES AND OTHER PURPOSES**
**George O. Monnig, Hampton, Va.**
**Application January 16, 1950, Serial No. 138,729**
**10 Claims. (Cl. 280—112)**

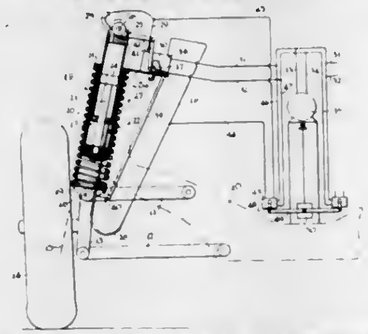


1. In combination with a support, a body and a stabilizing device yieldably mounted on said support and including spaced hydraulic means comprising cylinders containing hydraulic medium and pistons connected to and supporting at least part of the weight of the body and subjected to changes in pressure when the body is shifted from normal condition by a displacing force, conduits connecting the cylinders so that the spaced hydraulic means react mutually oppositely with changes in the forces affecting the supported body, a source of hydraulic medium under pressure, conduits connecting said source with said cylinders, and fluid pressure actuated means responsive to and controlled solely by differential pressures in the cylinders for controlling the flow of the hydraulic medium under pressure to conduct the same to the cylinder in which the pressure is increased, whereby the supported body, when shifted from normal condition by a displacing force, will be returned thereto and maintained therein.



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**2,650,108**
**SUSPENSION FOR AUTOMOBILES AND OTHER VEHICLES**
**Ernest G. Bruce, deceased, late of Philadelphia, Pa., by The Pennsylvania Company for Banking and Trusts, Philadelphia, Pa., administrator**
**Application April 28, 1947, Serial No. 744,416**
**10 Claims. (Cl. 280—124)**

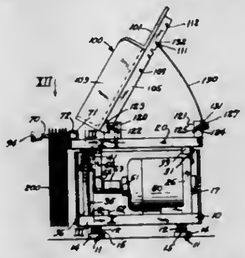


1. In a vehicle suspension, an axle for a road wheel, a load supporting structure, means for guiding said axle relative to said structure for reciprocal up and down movement, an extensible and contractible device between said axle and said structure for resiliently transmitting the weight of the structure and the load to the axle, said device comprising in series arrangement in a coil spring and fluid operated motor with reciprocating members, one of the latter of which is connected to the spring and the other to said structure, a valve in a fluid circuit between said motor and a source of fluid pressure for operating said motor, said valve being carried by said member that is connected to said spring, operating linkage between the valve and said axle and said structure for moving the valve to control flow of the operating fluid to and from the motor to cause contraction of said motor upon compression of said spring and extension of said motor upon extension of the spring.

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**2,650,109**
**APPARATUS FOR ALIGNING AND SORTING SHEETS OF PAPER, ETC., AND PARTS THEREFOR**
**Claude W. Johnson, Berkeley, Calif.**
**Application December 9, 1949, Serial No. 132,145**
**30 Claims. (Cl. 282—1)**

1. An apparatus for jogging that may be used for aligning the edges of sheets of paper and the like and for sorting sheets classified by a series of notches and perforations, including a base member; upright members mounted on said base member; collinear vertical spring reed members secured to and projecting above said upright members; a deck held above said base member by said reed members so that said deck may hinge on and along the line of said reeds; a motor mounted on said base member and having a rotating shaft projecting therefrom with an eccentric mounted on said shaft; a bearing block having a bearing adapted to receive said eccentric; and a resilient connection to transmit the vertical force of vibration from said eccentric through said bearing block to said deck,



said connection including a pair of vertical spring reeds connecting said bearing block to said deck, said reeds being mounted in planes perpendicular to the plane of said hinge reed members.

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**2,650,110**
**ELECTRICAL CONDUIT CONNECTOR**
**Robert C. Harrison, Santa Monica, Calif.**
**Application July 31, 1950, Serial No. 176,833**
**15 Claims. (Cl. 285—6.5)**

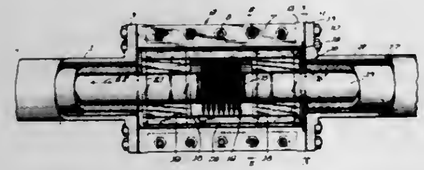


1. A connector for fastening an electrical conduit into an opening therefor of a junction box comprising a sleeve to receive said conduit, said sleeve having an end portion adapted to enter said junction box opening from the outside of said junction box for engagement between the sleeve and box, having a slot at said end portion extending lengthwise of said sleeve, and having a hole spaced lengthwise from said slot; a rocker member extending along the periphery of said sleeve from said end portion in said slot and over said hole with said rocker member accessible from the outside of said junction box when said end portion is within said junction box opening, said rocker member being rotatable about that portion of said sleeve between said slot and said hole from a starting position permitting said end portion of the sleeve to enter said junction box opening to a locking position to fasten the end portion within said box opening, said rocker member having a leading end carrying a hook member adapted to hook onto a portion of the junction box wall adjacent said junction box opening, said leading end being retracted within said end portion of said sleeve at the starting position of said member and swung outward for locking engagement of said hook member with the wall of said junction box adjacent said opening at the locking position of said member, the other end of said rocker member having a first position swung out from the circumference of said sleeve at the starting position of said member and a second position toward said sleeve at the locking position of said member, said rocker member having an intermediate projecting portion retracted outwardly at said starting position of said member and extending through said hole within the inner circumference of the sleeve for engagement with said conduit at the locking position of the member; and

means to secure said other end of the rocker member at said second position thereby holding said rocker member at its locking position with said leading end in engagement with the box and said intermediate portion in engagement with the conduit thereby interlocking the box, sleeve and conduit.

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**2,650,111**
**EXPANSION JOINT ENCLOSURE**
**Edward W. Kaiser, Chicago, Ill.**
**Application October 29, 1948, Serial No. 57,225**
**2 Claims. (Cl. 285—22)**

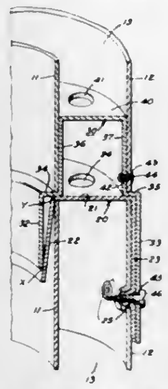


1. An expansion joint enclosure, comprising in combination with relatively spaced co-axially disposed housings, a pipe in and extending through said housings in spaced relation thereto and an expansion joint interposed in the pipe between the spaced housings, flanges on the adjacent ends of the housings, a tubular enclosure body between and in juxtaposed relation to the adjacent ends of the housings having its opposite ends connected to and partially closed by said flanges, said body receiving a portion of the pipe longitudinally therethrough and the expansion joint therein, form sustaining collars in the opposite end portions of the enclosure body having their inner ends relatively spaced from each other and adjacent ends of said expansion joint and their outer ends in proximity to said flanges, a form sustaining sleeve engaged snugly over and about said collars spanning the space between the inner ends thereof and housing the expansion joint, a second form sustaining sleeve snugly engaged about and along said first sleeve throughout its length spaced from the inner side walls of said enclosure body and having its ends in proximity to said flanges, and an anchor plate seated flushly in one end of said enclosure body and clampingly retained therein by engagement of the adjacent flange on the end of one of said housings.

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**2,650,112**
**DOUBLE WALLED PIPE AND COUPLING THEREFOR**
**Alan Kinkead, Los Altos, Calif., assignor to Williams-Wallace Company, San Francisco, Calif., a corporation of California**
**Application February 2, 1949, Serial No. 74,118**
**4 Claims. (Cl. 285—22)**

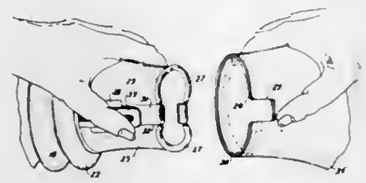
1. Connecting means for adjacent ends of a pair of flue pipe sections, each including inner and outer tubes in radial spaced relations; comprising a male coupling on the end of one section and a female coupling on the adjacent end of the other section, the male coupling being of channel form in cross section and including a base portion spanning the space between the respective tubes and resting on the ends thereof, and side flanges projecting from the base portion and extending along the inner wall of the inner tube and the outer wall of the outer tube, the female coupling being of generally channel form in cross section and including a base portion extending radially of the respective tubes and disposed between same in substantial spaced relation to the ends thereof, side flanges projecting from the base portion and extending along the outer wall of the inner tube and the inner wall of the outer tube to the ends thereof, flanges projecting radially inward and radially outward from said side



flanges providing shoulders supported on the base portion of said male coupling and supporting the ends of the tubes of the respective section, and other flanges projecting from said shoulder flanges in parallel relation to said side flanges and extending along the outer walls of the side flanges of the male coupling.

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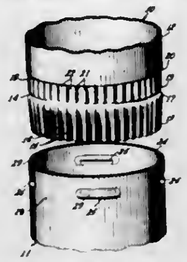
**2,650,113**
**FILTER ADAPTER**
**George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application June 5, 1948, Serial No. 31,320**
**8 Claims. (Cl. 285—90)**



1. A self-clamping coupling for a filter bag comprising a flexible, resilient tubular member having an inlet end adapted to be connected to the exhaust of a suction cleaner and an outlet end having a smooth outer filter seating surface, the wall of said outlet end having sufficient elastic rigidity to grip the slightly smaller diameter inlet end of a filter bag telescoped thereover firmly and in an air-tight manner, said member having manually operable means secured to the outlet end of said member for collapsing one wall thereof toward the opposite wall so as to reduce the cross-sectional area of said outlet to facilitate replacement of a filter inlet thereover, said means extending longitudinally of said outlet and including a portion accessible to the hands of an operator at a point spaced from said smooth outer surface so that the operator can apply pressure thereto to collapse said outlet end inwardly toward the axis thereof while leaving the entire outlet end free of obstructions for the placement or removal of a filter bag.



**2,650,114**
**SHEET METAL PIPE AND FITTING CONNECTION**
**Saul Epstein, Los Angeles, Calif.**
**Application February 17, 1950, Serial No. 144,640**
**1 Claim. (Cl. 285—185)**

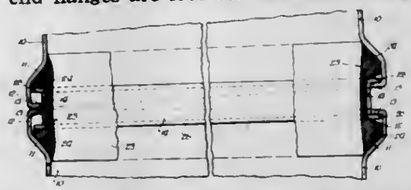


A slidable, telescoping and releasable pipe joint comprising: a first substantially cylindrical sheet metal pipe comprising an unbroken sheet metal wall of some resilience, having a crimped end portion comprising longitudinally extending alternate ridges and grooves disposed entirely therearound, the outermost part of said crimped end being tapered and an innermost part of said crimped end defining an annular wall part essentially parallel to the axis of the pipe, and an annular offset at the innermost edge of said innermost part offset inwardly circumferentially of said pipe, the tops of the ridges of said innermost part of said crimped portion defining a diameter approximately equal to that of the general inside diameter of the pipe, said innermost and outermost parts of said crimped end portion being spaced apart by an external annular groove extending entirely around said pipe in unbroken continuity between said parts, and a second substantially annular sheet metal pipe having an unbroken wall, said second pipe having an end with a plurality of circumferentially spaced, circumferentially elongate, inwardly directed dimples each of a length to comprehend a plurality of said ridges, said dimples being spaced inwardly from said end of said second pipe a distance corresponding to that between said offset on said first mentioned pipe and said annular groove, the end of said first mentioned pipe being adapted for insertion into the end of said second pipe whereby said dimples are adapted to ride over the ridges of said tapered part of said crimped portion, deflecting the same inwardly at said dimples and bulging same outwardly between said dimples while causing said second pipe end to become relatively flattened between said dimples, said first and second pipe ends being resiliently returned to their normal substantially cylindrical contour when said dimples are engaged in said groove and the end of said second pipe is in abutting relationship against said inward offset of said first pipe.

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**2,650,115**
**PIPE COUPLING**
**Edward Hall Taylor, Winnetka, Ill., assignor to Taylor Forge & Pipe Works, Cicero, Ill., a corporation of Illinois**
**Application April 4, 1950, Serial No. 153,801**
**2 Claims. (Cl. 285—197)**

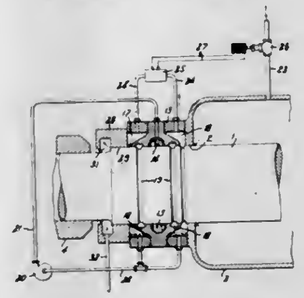
1. In flexible pipe coupling and sealing means, two adjacent pipe ends having circumferential terminal flanges extending radially inward thereof, a coupling ring of channel cross section disposed radially inward of said flanges and having end flanges extending radially outward in overlapping relation to the axially inner faces of said pipe end flanges, said coupling ring being otherwise free from said pipe ends and said flanges of said coupling ring being spaced apart axially thereof a distance materially greater than the combined thickness of said pipe end flanges axially of said pipe ends and said coupling ring being unobstructed between said flanges thereof except for said pipe end flanges, whereby said pipe end flanges are free for movement toward



and away from each other between said coupling ring flanges to accommodate relative movement and disalignment of said pipe ends, and sealing means comprising an elastic sealing ring having sealing elements seating about the ends of said coupling ring and on the inner circumferential surfaces of said pipe ends in sealing contact therewith, said elements being exposed at their radially inner surfaces to the interior of said pipe ends so as to be urged radially outward and held seated by pressure within said pipe ends.

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**2,650,116**
**FLUID SEALING GLAND**
**Robert Cuny, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company**
**Application February 8, 1949, Serial No. 75,182**
**In Switzerland February 23, 1948**
**6 Claims. (Cl. 286—9)**

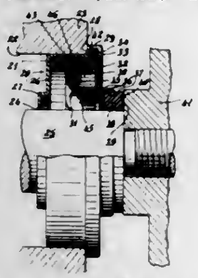


1. The combination with a generator or like machine provided with a housing adapted to be filled with a gas under pressure and a movable member within said housing, having a shaft extending outwardly through an opening in said housing to atmosphere, of a device for sealing the opening through which the said shaft passes, said device comprising an annular fitting surrounding said shaft exteriorly of the shaft opening in said housing and secured to said housing in a gas tight manner, a liquid type ring seal in said fitting surrounding and confronting said shaft, and a blocking chamber in said fitting surrounding the periphery of said shaft at the open air-side of said ring seal and through which said shaft passes to the surrounding atmosphere, said chamber being supplied with a protective gas maintained therein at a pressure above atmosphere and which dis-

charges continuously along the surface of said shaft from said chamber in a direction away from said liquid seal thereby to establish a block against ingress of air longitudinally of said shaft into said liquid seal.

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**2,650,117**
**SEALING DEVICE**
**Albert M. Chambers, Jr., and Leo F. Jones, Palmyra, N. Y., assignors to The Garlock Packing Company, Palmyra, N. Y., a corporation of New York**
**Application January 19, 1950, Serial No. 139,474**
**8 Claims. (Cl. 286—11)**

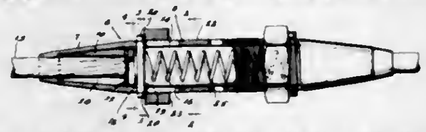


3. A sealing device for effecting a seal between two associated relatively rotatable machine elements, comprising an annular, flexible diaphragm which, in radial, axial section, is in the shape of an axially facing U, one leg of which is adapted for sliding sealing engagement with a radial surface associated with one of said machine elements and the other leg of which is cylindrical and has a radial flange toward its free end and is adapted for fixed sealing association with the other of said machine elements and the intervening portion of which is a flexible web of semi-circular shape in radial, axial section, which web is integral with said cylindrical leg as a gradually curved continuation thereof; and an annular, axially facing, U-shaped spring, of sheet metal of substantially uniform thickness, having a sole, relatively rigid cylindrical portion intimately associated with the cylindrical leg of the diaphragm to afford support thereto, a radial flange, toward the free end of the spring's said cylindrical portion, intimately associated with said radial flange of the diaphragm to afford support thereto, and a plurality of substantially semi-circular, spring fingers, extending from the other end of the spring's said cylindrical portion, substantially about and in intimate association with the said web to support the latter and urge the said one leg of the diaphragm toward sliding sealing association with such a radial surface; the diaphragm's said cylindrical leg with its associated cylindrical spring portion being adapted for press-fit, substantially fluid-tight, association with a cylindrical surface fixedly associated with said other machine element, and the diaphragm's said radial flange with its associated radial flange of the spring being adapted for substantially fluid-tight abutment with a radial surface fixedly associated with said other machine element.

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**2,650,118**
**WIRE GRIP**
**Harold C. Ripley and James J. Saul, Chicago, Ill., assignors to Reliable Electric Company, Chicago, Ill., a corporation of Illinois**
**Application October 13, 1949, Serial No. 121,158**
**1 Claim. (Cl. 287—75)**

A wire grip comprising a tubular shell having a tapering end portion and an adjacent portion having a non-tapering exterior, individual wire gripping jaws in said tapering end portion for cooperation therewith, said adjacent portion having opposed longitudinal slots, a bearing member within said shell and having a face adapted to engage the inner ends of said jaws, a pin extend-



ing transversely through said shell inwardly of said bearing member, the ends of said pin extending through said opposed slots and being enlarged exterior of said shell, and screw means threaded on the exterior of said adjacent portion for cooperation with the ends of said pin.

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**2,650,119**
**LINK ROD JOINT**
**James H. Booth, Venice Township, Shiawassee County, and Bernard E. Ricks, Ferndale, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio**
**Application August 4, 1949, Serial No. 108,552**
**1 Claim. (Cl. 287—109)**



A rigid drag link end assembly comprising a drag link, a drag link housing of larger diameter than the drag link, a spacer tube having an outer diameter snugly fitting the inner diameter of the drag link housing and an inner diameter snugly fitting the outer diameter of the drag link, said spacer tube being disposed between telescoped portions of the housing tube and drag link, an outturned flange portion on the drag link overlying substantially the entire outer end of the spacer tube, an inturned flange portion on the housing overlying substantially the entire other end portion of the spacer tube, said spacer tube firmly supporting and interconnecting in fixed longitudinal position said telescoped portions, and locally deformed dimple portions in all of the telescoped members holding the members against relative rotation.

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**2,650,120**
**SCAFFOLD CONNECTION**
**John A. Kirkpatrick, Zelienople, Pa., assignor to Universal Manufacturing Corp., Zelienople, Pa., a corporation of Pennsylvania**
**Application February 24, 1951, Serial No. 212,665**
**2 Claims. (Cl. 287—119)**



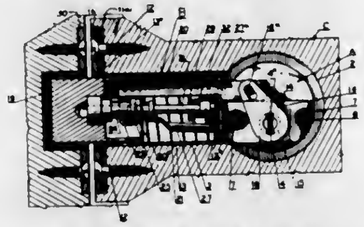
1. A scaffold connection comprising a vertical hollow pin adapted to extend from a scaf-



fold member into a vertical tubular member, the side wall of the pin being provided with a hole and the upper end of the pin being provided with a pair of diametrically opposite vertical notches, a vertical latch inside the upper part of the pin, a bracket having its ends rigidly mounted in said notches, and a pivot pin mounted in the bracket and supporting the upper end of the latch with its center of gravity at the side of the pivot pin opposite to said hole, the lower end of the latch having a lateral projection normally extending out through said hole but adapted to be swung back into the pin.

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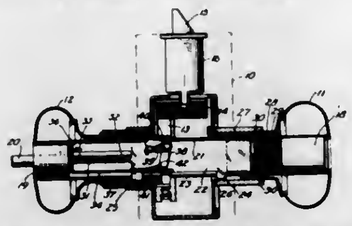
**2,650,121**
**DOOR LOCK**
**Ernest L. Schlage, Burlingame, Calif., assignor to Schlage Lock Company, a corporation**
**Application February 15, 1949, Serial No. 76,440**
**9 Claims. (Cl. 292—167)**



8. In a lock structure, an elongated cylindrical housing, a latch bolt reciprocable in said housing and rotatable therein about an axis, an annular shoulder formed on said latch bolt and concentric with said axis, a retractor arm extending longitudinally of said housing and mounted for generally longitudinal movement relative thereto, one end of said arm being supported on said latch bolt to permit rotating the latter relative to said one end and for engagement of said bar at said one end with said shoulder, a dogging member rockably mounted in said housing for movement into and out of dogging relationship with said bolt, a dead bolt reciprocable relative to said housing and said latch bolt, an extension on said dead bolt secured in said housing for rotation of said dead bolt about said axis with said latch bolt, said extension being formed to engage said dogging member for holding the same out of dogging relationship with said latch bolt.

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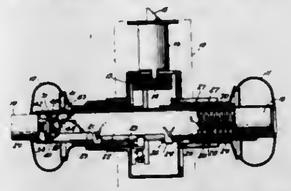
**2,650,122**
**LATCH MECHANISM**
**Nicholas A. Welch, West Hartford, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut**
**Application March 17, 1949, Serial No. 81,964**
**10 Claims. (Cl. 292—169)**



1. In a latch device of the character indicated, an inside knob having an outer exposed face with a bore therein, latch mechanism operated by said knob, two concentric push buttons carried by said knob and slidable between in and out positions in said bore for controlling operation of said latch mechanism, said push buttons projecting externally and beyond said face of said knob for finger access to both buttons, dogging means for said mechanism and operable by one of said buttons, said dogging means blocking an operation of said latch mechanism when moved into blocking position by actuation of said one button, resilient means urging said buttons toward their out positions, latch means reacting solely between said one button and an axially fixed part of said device for holding said one button in an in-position when said mechanism is thus blocked, the other of said buttons projecting externally and beyond said face of said knob for finger access when said dogging means has been set, the outermost projecting ends of both buttons being substantially in the same plane when in the outwardly projecting position, latch throw-off means disengaging said latch means upon a movement of said other button toward the in-position; whereby upon simple inspection of the relative projecting placement of said buttons, the in-position of said one button may indicate the blocked condition of said mechanism; said throw-off means constituting the only means for throwing off said latch means, and said latch means and said latch throw-off means being carried wholly by and therefore for rotation with said knob, whereby said latch means may be thrown off only by a push of said other button, so that, when blocked, one may try said knob and be assured of the blocked condition of the mechanism.

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**2,650,123**
**LATCH MECHANISM**
**Roy C. Hopgood, Glen Ridge, N. J., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut**
**Application April 22, 1949, Serial No. 88,994**
**9 Claims. (Cl. 292—169)**

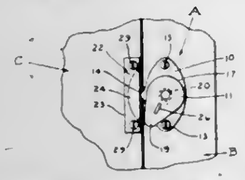


5. In a latching device of the character indicated, latch mechanism including an elongated longitudinally extending tubular spindle, two slidable concentric push buttons slidable longitudinally in one end of said spindle, one of said buttons including a control portion for controlling the blocked and unblocked condition of said mechanism, spring means in said spindle and urging said one button outwardly, first abutment means cooperating between a part operatively associated with said one button and a part operatively associated with said spindle for determining the extended position of said one button, and abutment on said spindle, a first latch including a latch member pivotally carried by said one button and engageable with said abutment in a depressed position of said one button, a second latch including a latch member carried by said other button and pivotally related to said one button, second abutment means cooperating between said spindle and said other

button for determining the outer extended position of said other button, and limiting means cooperating between said buttons for limiting the outward projection of said other button relatively to said one button to an extent less than the total throw of said one button between the projecting and depressed positions thereof, said second latch including means resiliently urging said second latch into longitudinal actuating alignment with said first latch during an outward projection of said other button relatively to said one button.

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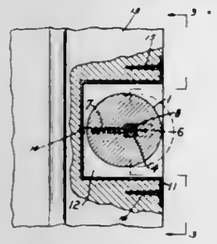
**2,650,124**
**WINDOW FASTENER**
**Carl E. Olson, Minneapolis, Minn.**
**Application March 25, 1948, Serial No. 16,987**
**2 Claims. (Cl. 292—194)**



1. A fastener for holding a window element to its frame element comprising a flat base plate part adapted to be secured to one of said elements near an edge thereof, and a flat rotary part having a projecting ear portion, means pivotally connecting said two parts together for rotation of said rotary part on a single axis over said base plate part, said rotary part being provided with a narrow elongated radially extending aperture spaced from the axis thereof for accommodation of a tool for rotating the rotary part, said elongated aperture guiding the tool about said single axis, and said base plate part being of such dimensions to at least partially underlie said elongated aperture throughout its travel.

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**2,650,125**
**WINDOW SASH HOLDER AND LOCK**
**Crawford G. Long, near Birmingham, Ala.**
**Application August 29, 1949, Serial No. 112,879**
**2 Claims. (Cl. 292—228)**



1. A window sash holder and lock of the character described comprising, a disck-shaped metal roller, said roller having a square hole positioned off-center through it from one flat face to the other flat face, a partly round and partly square metal shaft, the square portion of the shaft being of a size to fit in the square hole of the roller, the roller mounted upon the square portion of the shaft, a round portion of the shaft extending beyond one face of the roller, the end of said extended portion having a round threaded hole therein, the other end portion of the shaft beyond the opposite face of the roller being round and terminating in an L-shaped end, the end of the L-shaped portion having a hole therethrough, said L-shaped end being parallel with a radius leading from the edge of the square hole in the roller nearest the circumference edge of the roller; a flat-shaped metal case with one edge being open, said shaft with roller thereon mounted revolvably in said case, a coil spring, one end of the said spring attached to the L-shaped end through the hole therein with the other spring end attached to the center portion of the narrow wall of the case, said spring being disposed normally to pull the end of the L-shaped shaft toward the wall; said case being adapted to be inserted and retained in a slot in the edge of a window sash with the open edge adjacent the window frame, the roller being positioned with its larger area toward the open edge of the case with part of its circumference edge extended beyond the plane of the edge of the sash and being adapted to make contact with the face of a window frame positioned adjacent the roller; a metal knob having a threaded end portion, said threaded end being inserted tightly in the said threaded hole in the end of the shaft and being adapted by manual operation to turn said shaft with roller thereon by overcoming the tension of said spring.

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**2,650,126**
**GRILLE GUARD FOR AUTOMOBILES**
**John A. Barnas, Detroit, Mich.**
**Application April 25, 1950, Serial No. 158,007**
**3 Claims. (Cl. 293—64)**



1. A grille guard for automobiles, said guard comprising an arm, an upstanding impact member disposed at one end of said arm, flanges at the other end of said arm and having a passage therebetween, a rod provided with attaching means at one end adapted to fasten to an automobile, said rod being located in said passage, a first spring reacting on said attaching means and contacting one surface of each of said flanges, a second spring disposed on said rod and reacting on the opposite surface of each of said flanges, and means constituting a seat on said rod for said second spring whereby the two springs reacting on said flanges maintain said arm in position.

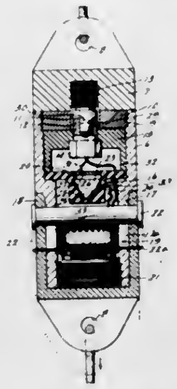
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**2,650,127**
**PARACHUTE LOAD RELEASE**
**Norris W. Carlson, Dayton, Ohio**
**Application April 17, 1951, Serial No. 221,491**
**6 Claims. (Cl. 294—83)**
**(Granted under Title 35, U. S. Code (1952), sec. 266)**

1. An automatic parachute load release device comprising an elongated body, a relatively movable end portion shiftable axially thereon at one end of the body, a separable end portion at the opposite end of the body, said shiftable and separable end portions having securing means thereon adapted to be connected to a parachute and to the cargo or load to be suspended and lowered by



the parachute to interpose the load release device between the parachute and a supported load, frangible connecting means between the body and separable end portion for coupling the body and separable end portion together, explosive means within the frangible connecting means for breaking the frangible connection to free the separable end portion from the body, electrical firing means associated with said explosive means for exploding the same, a firing circuit connected to said firing means for energizing the electrical firing means to ignite the explosive means when the firing circuit is closed, and a time delay reserve type energized battery connected to said firing circuit to energize the same, said battery being normally inactive, and having means therein to generate an electric current after a predetermined time delay when the battery is crushed, said battery being interposed between the body and the relatively movable end portion to be crushed thereby incident to axial movement of

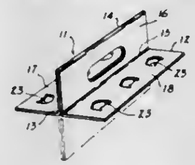


the movable end portion relative to the body by relative pull between the parachute and the cargo or load when the parachute is released initially opens and becomes shock loaded, a gravity responsive normally open switch device within the body connected in said firing circuit having a normally generally vertical position during descent after the parachute has opened, said gravity responsive switch device including spaced electrical contacts connected in the firing circuit, and a gravity responsive contact member movable in the body normally from a spaced relation relative to at least one of the spaced contacts when the body is in a generally vertical position and within a predetermined inclined position of the body, to a circuit closing contacting relation with both of the contacts for closing the firing circuit when the body is tilted beyond said predetermined inclined position.

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**2,650,128**
**CARRIER FOR CONTAINERS**
**Ralph J. Failor, Akron, Ohio**
**Application September 17, 1948, Serial No. 49,819**
**14 Claims. (Cl. 294—87.2)**

1. A carrier for containers having circumferential beads near the top thereof comprising a blank of foldable material provided with at least one aperture, a stiff lip and at least one bendable flap constituting a portion of said blank, said lip and said at least one flap having edges defining at least a portion of said at least one aperture in said blank, said lip and said at least one flap being located at substantially opposite sides of said aperture, the edges of said lip and said at least one flap being adapted to engage the container immediately beneath the circumferential bead thereof, the distance between the edges of



said lip and said at least one flap being not greater than the distance between opposite sides of said container, said lip and said at least one flap constituting the sole supporting means for said container, said carrier being provided with means for lifting the same.

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**2,650,129**
**CABLE RETRIEVING APPARATUS**
**Ernest F. Axelsen, Seattle, Wash.**
**Application March 31, 1951, Serial No. 218,677**
**8 Claims. (Cl. 294—102)**



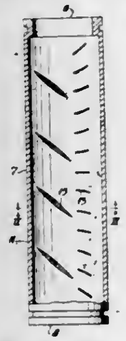
1. Cable retrieving apparatus for use in well casings and the like, comprising a wedging pilot member of a materially smaller cross section than the well casing interior less the cable thickness, to allow clearance for lowering of such member into the casing past the upper end of a broken cable section standing therein, a receiving bell having a downwardly open interior terminating in a lower rim portion extending around the casing interior with a slight clearance therebetween, means to lower such bell into the casing and past such upper end of the broken cable section to direct the same into said bell, means to lower said wedging member down into the casing in advance of said receiving bell and to raise said wedging member into said bell and against the cable received therein, thereby to grip the cable between said wedging member and bell, and wedging means automatically increasing the gripping pressure of such member and bell on the cable in response to increased lifting force applied by said rasing means to said wedging member alone after the latter has been raised initially into said bell to grip the cable.

2,650,130
**WINDSHIELD VISOR WITH CENTER SUPPORTING BRACKET**
William A. Maher, Detroit, Mich.
Continuation of application Serial No. 768,688, August 14, 1947. This application February 3, 1950, Serial No. 142,221
5 Claims. (Cl. 296—95)



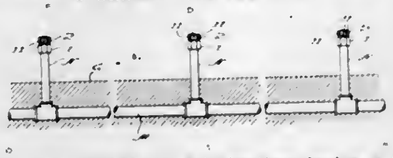
1. A sun visor adapted to be connected over the windshield of a vehicle of the type having drip moldings on opposite sides of the top thereof, including a pair of visor body sections having coextensive inner end portions disposed adjacent to and contiguous with each other, bracket means having an edge portion underlying and extending entirely along the adjacent inner end portions of said visor body sections, means rigidly securing the adjacent edges of said visor body sections and said bracket means relative to each other, said bracket means having a web portion depending from and arranged substantially at right angles to said visor body sections and said web portion adapted to be connected to said vehicle to support the center of said sun visor, and visor end portions extending outwardly from the opposite outer ends of each of said visor body sections as continuations thereof and conforming along their rear edges to the shape of the front portion of the top of the vehicle, said end portions being of such lateral extent as to enable the outer free ends thereof to be directly securable to said drip moldings on the opposite sides of said windshield when applied to a vehicle body.

2,650,131
**NOZZLE FOR THE EJECTION OF FLUID STREAMS**
William Wycliffe Spooner, Ilkley, England
Original application June 8, 1948, Serial No. 31,645, now Patent No. 2,593,357, dated April 16, 1952. Divided and this application January 4, 1950, Serial No. 136,688. In Great Britain April 2, 1948
4 Claims. (Cl. 299—138)



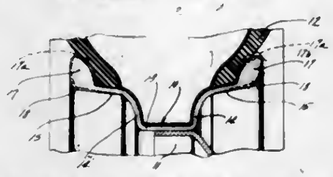
1. In a nozzle for the ejection of a sheet-like fluid stream and formed of a tubular housing open at both ends for the entry of fluid thereto and having a single continuous slot outlet in its wall parallel to its longitudinal axis, the provision of a plurality of guide vanes within the housing disposed substantially wholly between the axis of the housing and the slot at spaced intervals along the slot, said guide vanes extending substantially at right angles to a plane which contains the axis of said housing and passes through the slot, and each group of vanes on opposite sides of the mid-length of said slot being oppositely inclined, when viewed in cross section in said plane, outwardly towards the nearer end of the slot.

2,650,132
**SPRINKLER TYPE IRRIGATING DEVICE**
Howard E. Reinecke, La Crescenta, Calif., assignor to Helen A. Reinecke, Glendale, Calif.
Application November 3, 1950, Serial No. 193,768
5 Claims. (Cl. 299—144)



1. In a sprinkler type irrigating device, a body member having an internally threaded bore at one end affording means of attachment to a source of water supply, an outlet bore disposed in axial alignment with said inlet bore at the opposite end of said body member, an inlet port in said body member disposed in axial alignment with said bores and affording communication between said bores, a cap mounted on said body member and closing the outer end of said outlet bore and movable to infinitely variable fixed positions axially of said port; said cap having a plurality of discharge ports extending from the interior to the exterior thereof; and means formed integrally with said cap operable in response to axial movement of said cap relative to said body member to prevent the flow of water through said first-named port or to vary the flow therethrough from said outlet bore supply to said outlet bore and said discharge ports; the combined cross section-areas of said discharge ports being more than twice the cross sectional area of said inlet port.

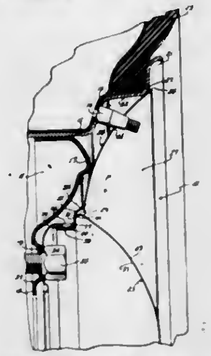
2,650,133
**WHEEL STRUCTURE AND METHOD OF BALANCING SAME**
George Albert Lyon, Detroit, Mich.
Application October 2, 1947, Serial No. 777,379
9 Claims. (Cl. 301—5)



1. A wheel structure having a tire rim portion in which at least one of the terminal flanges is throughout its circumference of substantially increased mass in cross-sectional area compared to the adjacent portion of the tire rim to the extent that in the high speed rotation of the wheels the mass thus provided in the periphery of the tire rim acts substantially in the nature of a flywheel to dampen out unbalancing factors and thus attain operating balance in the wheel, the concentrated mass of said flange being disposed eccentrically relative to the wheel axis for counterbalancing a major unbalancing factor.



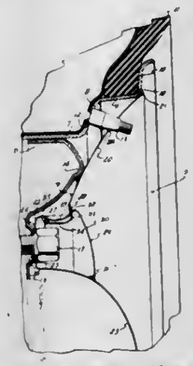
2,650,134
**WHEEL COVER**
George Albert Lyon, Detroit, Mich.
Application October 12, 1948, Serial No. 54,166
10 Claims. (Cl. 301—37)



1. In a wheel structure including a tire rim and a load-sustaining body part and wherein the body part includes a central bolt-on flange, a cover for the outer side of the wheel including an annular portion of a magnitude and extent to substantially conceal the tire rim and extending generally radially and axially inwardly from the tire rim, said cover having a generally axially inwardly extending portion adjacent to the bolt-on flange of the wheel body and terminating at its axially inner terminus in a generally radially inwardly extending bolt-on flange registering with the bolt-on flange of the wheel body and secured thereto by means of the wheel attachment bolts, said axially extending portion of the cover having at its axially outer terminus a generally rabbet groove annular juncture with the remainder of the cover with the axially outer terminus of the rabbet groove being defined by an annular reinforcing rib projecting generally axially outwardly, said axially extending portion having a plurality of radially inwardly extending cover attachment bumps, and a hub cap member including a marginal angular radially inwardly extending and axially inwardly projecting retaining flange having a beaded terminus and engaging said retaining bumps retainingly with the radially extending portion of the flange seating in said rabbet groove formation, the diameter of the hub cap member being substantially less than the diameter of the rabbet groove formation, whereby to afford a pry-off tool gap between said reinforcing rib and the edge of the hub cap member to facilitate the insertion of a pry-off tool into engagement with the edge of the hub cap member with the rib serving as a pry-off tool fulcrum.

2,650,135
**WHEEL COVER**
George Albert Lyon, Detroit, Mich.
Application October 12, 1948, Serial No. 54,167
12 Claims. (Cl. 301—37)

1. In a wheel structure including a tire rim and a wheel body, the wheel body being set in from the outer side of the tire rim and having a bolt-on flange near the median plane of the wheel with substantially clear access from an axially outer side point on the tire rim to the bolt-on flange of the wheel body, said bolt-on flange having apertures through which retaining bolts extend for securing the wheel in service position on a vehicle, a wheel cover assembly including a circular cover member having a radially outer generally radially and axially inwardly extending annular portion adapted to extend from said point on the tire rim to the bolt-on flange and including a central axially outwardly convex hub cap simulating

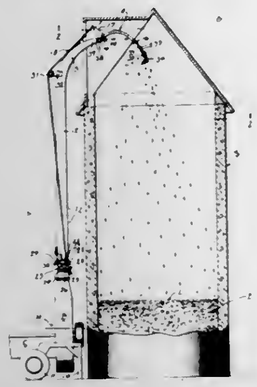


crown portion joined with the radially outer annular portion by an axially inwardly directed flat bottomed rib defining an axially outwardly opening annular junction groove and seating retainingly against the bolt-on flange of the wheel body, said flat bottom of said rib having holes therein registering with said apertures and having the retaining bolts securing said flat bottom to the bolt-on flange to thereby secure the cover on the wheel, and an ornamental bead bridging between the annular and crown portions and engaging in press-on, pry-off relation with one of said portions and concealing said outwardly opening junction groove and the retaining bolts.

2,650,136
**ATTACHMENT FOR SILO FILLING MACHINES**
John F. Raleigh, Peshtigo, Wis.
Application March 7, 1951, Serial No. 214,416
2 Claims. (Cl. 302—60)

1. The combination with an ensilage blower including blower pipe sections and an ensilage elbow having an exhaust end extending into a silo, of an attachment for the ensilage blower adapted to evenly distribute the ensilage in the silo comprising, an arcuate shaped deflector hood pivotally secured at its rear end to the top portion of the exhaust end of the ensilage elbow, guide vanes extending longitudinally of and secured to the under surface of the deflector hood adjacent its discharge end, a conical guide finger depending centrally from the discharge end of the deflector hood intermediate the guide vanes, a crank lever rigidly fastened to the deflector hood adjacent its rear end and extending upwardly therefrom, a rotatable shaft secured to the ensilage blower at a point remote from the deflector hood and crank lever, a crank arm splined to said rotatable shaft, a cable fastened at one end to the outer extremity of the crank arm and at the other end to the outer extremity

of the crank lever, and means including a motor adapted to impart rotation to the rotatable shaft,



whereby the deflector hood will be reciprocated to guide and deflect the ensilage in the silo.

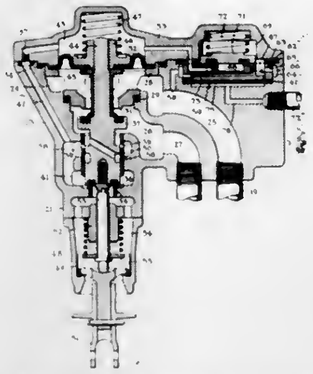
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**2,650,137**
**RELEASE CONTROL APPARATUS FOR FLUID PRESSURE BRAKES**
**Andrew T. Gorman, Pitcairn, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania**
**Application October 21, 1949, Serial No. 122,656**
**5 Claims. (Cl. 303—40)**



1. In a fluid pressure brake equipment for a multiple unit locomotive, in combination, a pipe adapted to extend the length of the locomotive, an engineer's control valve device on the leading one of said units for supplying fluid under pressure to said pipe, a Venturi device in said pipe on said leading unit through which fluid under pressure supplied by said control valve device flows to said pipe on the other unit, an independent brake release device on each of said units operable by fluid under pressure to effect a release of brakes thereon, a pipe on the leading unit connecting the independent brake release device thereon to the suction of said Venturi device, and means on the other units subjecting the independent brake release devices thereon directly to pressure of fluid in said pipe thereon.

**2,650,138**
**BRAKE CYLINDER RELEASE VALVE**
**William F. Klein, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey**
**Application July 5, 1951, Serial No. 235,341**
**6 Claims. (Cl. 303—68)**



1. In a fluid pressure brake controlling system of the type including a control valve, a brake pipe, an auxiliary reservoir, an emergency reservoir, a brake cylinder, a brake cylinder connection from said control valve and a self-restoring brake releasing mechanism interposed between said connection and said cylinder, said mechanism having a main valve having a normal position in which it permits flow between said connection and said cylinder and an abnormal position in which it seals said connection and vents said cylinder, fluid pressure motor means effective when actuated to maintain said valve in abnormal position, said motor means comprising in combination a movable abutment separating first and second working spaces; biasing means urging said abutment toward said first working space; a by-pass between said working spaces; a pilot valve controlling flow through said by-pass; an expansible chamber motor normally conditioned to maintain said pilot valve open, said motor having a first and a second working chamber separated by a movable wall, said first working chamber being in free communication with said connection, said second working chamber being in free communication with said emergency reservoir; yielding means urging said pilot valve toward closed position and effective to close said pilot valve when the pressures in said connection and said emergency reservoir equalize; and valve means whereby said second working space may be vented.

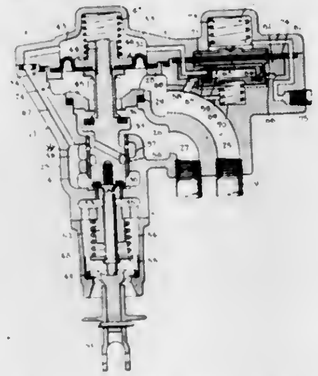
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**2,650,139**
**BRAKE CYLINDER RELEASE VALVE**
**William F. Klein, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey**
**Application July 5, 1951, Serial No. 235,342**
**5 Claims. (Cl. 303—68)**

1. In a fluid pressure brake controlling system of the type including a control valve, a brake pipe, an auxiliary reservoir, an emergency reservoir, a brake cylinder, a brake cylinder connection from said control valve, the pressures in said auxiliary reservoir and said brake cylinder being equalized during a full service application of said brakes, and a self-restoring brake releasing mechanism interposed between said

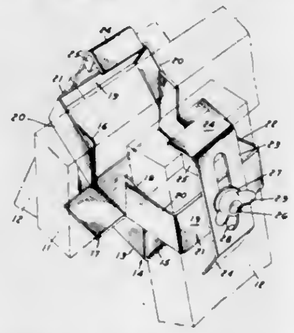


connection and said cylinder, said mechanism having a main valve having a normal position in which it permits flow between said connection and said cylinder and an abnormal position in which it seals said connection and vents said cylinder, fluid pressure motor means effective when actuated to maintain said valve in abnormal position, said motor means comprising in combination a movable abutment separating first and second working spaces; biasing means urging said abutment toward said first working space; a by-pass between said working spaces; a pilot valve controlling flow through said by-pass; an expansible chamber motor normally conditioned to maintain said pilot valve open, said motor having a first and a second working chamber separated by a movable wall, said first working chamber being in free communication with said connection, said second working chamber being in free communication with said brake pipe; yielding means urging said pilot valve toward its seat; means urging said wall toward a position in which said motor maintains said pilot valve open, said means and said yielding means being effective to close said pilot valve when the pressure in said brake pipe is less than said equalized pressure; and valve means whereby said second working space may be vented.



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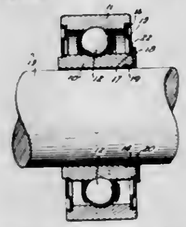
**2,650,140**
**ADJUSTABLE SAWHORSE BRACKET**
**Josef Boitos, Detroit, Mich.**
**Application September 18, 1950, Serial No. 185,474**
**6 Claims. (Cl. 304—5)**



6. A bracket for use in holding a rail and a pair of supporting legs of a trestle in assembled relationship, comprising a body member having means providing a seat for the rail and having means at opposite sides thereof for respectively slidably receiving the upper ends of the legs, clamps supported by the body member at opposite sides thereof for movement relative to the body member in the direction of length of the legs, said clamps having flanges at the top respectively engageable with the upper ends of the supporting legs to position the latter vertically relative to the body member, and releasable fastening means for respectively securing the clamps to the body member.

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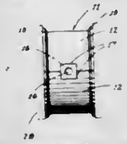
**2,650,141**
**LOCKING COLLAR**
**Stanley Miller Cooper, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut**
**Application June 21, 1950, Serial No. 169,457**
**9 Claims. (Cl. 308—236)**



1. In combination, an inner bearing ring having a bore for mounting upon a shaft with an eccentric locking counterbore at one end, and a locking ring comprising annular means to fit over the shaft and against said end and integrally including a generally axially projecting lug substantially at the bore thereof for reception in said counterbore, whereby upon relative rotation of said inner ring and of said annular means said lug may be squeezed between said counterbore and the shaft so as securely to bind said inner ring upon the shaft.

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**2,650,142**
**JOURNAL ASSEMBLY**
**John W. Wakley, Modesto, Calif., assignor of one-half to Emery F. Wakley, Modesto, Calif.**
**Application May 4, 1951, Serial No. 224,606**
**2 Claims. (Cl. 308—237)**



2. In a journal assembly which includes a shaft, a diametrally split wearing sleeve unit to fit on the shaft and removable therefrom, a locator element comprising a screw threaded in and projecting from the shaft, and a non-circular head on the screw; the unit having an opening therethrough to receive the head in non-turning relation.

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**2,650,143**
**PISTON RING**
**Holly M. Olson, Muskegon, Mich., assignor to Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan**
**Application October 1, 1951, Serial No. 249,050**
**5 Claims. (Cl. 309—29)**

1. A piston ring of generally circular form comprising, a connected series of segments, each hav-

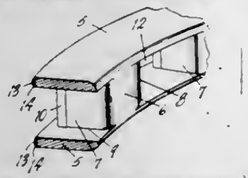
ing two spaced parallel lands and an integral connecting member at and between the inner edges of said lands, and connecting loops between successive land connecting members integrally joined, each at one end to one side edge of a connecting member, thence bearing against the inner side of the land connecting member to which connected and therefrom extending outwardly between and lengthwise of the lands con-



nected with said connecting member, therefrom between the lands of a next adjacent segment to the inner side of and spaced from the connecting member connecting said last mentioned lands, and integrally connected at its other end to the edge of said last mentioned connecting member, opposite the edge of the first mentioned connecting member to which said loop is joined at its first mentioned end.

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**2,650,144**
**PISTON RING**
**Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.**
**Application February 29, 1952, Serial No. 274,109**
**9 Claims. (Cl. 309—29)**

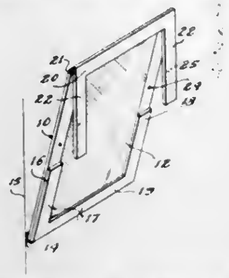


9. An annular split resiliently springable piston ring formed integrally of a strip of ductile metal and comprising flat axially spaced continuous cylinder wall engaging members having continuous peripheral cylindrical wall engaging edges and connected at their inner edges by angularly spaced tie members integral therewith, integral portions of the tie members being disposed outwardly between the cylinder wall engaging members and constituting struts in axial thrust supporting relation thereto, the wall engaging members having rounded chrome plated peripheral cylinder wall engaging edges providing substantially line contact with the cylinder wall in which the ring is installed.

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**2,650,145**
**COLLAPSIBLE WALL TABLE**
**Francis R. Sieminski, Jersey City, N. J.**
**Application July 26, 1951, Serial No. 238,693**
**1 Claim. (Cl. 311—3)**

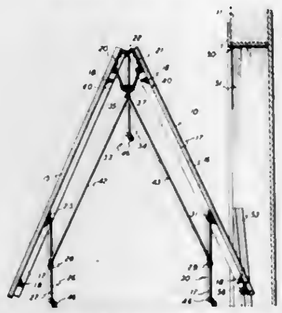
In a device of the character described, a flat supporting member providing a table top, a cleat secured to a side wall of a room and hingedly connected to one side of said supporting member for disposing said supporting member in horizontal table forming relation and in an upright out-of-the-way position adjacent said wall, a border frame consisting of oppositely disposed U-shaped sections, one of said sections being secured to the under side of said supporting member along the border at the inner end thereof and the other of said sections being hingedly connected to said supporting member at the outer end thereof and adapted to swing to dispose the opposite sides of



said U-shaped member in depending relation to form legs for supporting the outer end of said supporting member when the same is disposed in table forming relation, said legs and supporting member having interengageable means for securing said last mentioned U-shaped member in engagement against the supporting member when the said supporting member is swung to upright relation on its hinge connection, and a spring arranged at the pivotal connection of said supporting member with said cleat to thereby resiliently maintain the supporting member in upwardly extending relation.

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**2,650,146**
**FOLDING TABLE AND MEANS FOR DETACHABLY CONNECTING THE SAME TO A SUPPORT**
**Charles M. Mugler, North Hollywood, Calif.**
**Application March 26, 1951, Serial No. 217,427**
**5 Claims. (Cl. 311—16.5)**

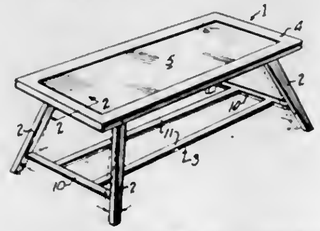


1. A foldable table for use with a vertical support having substantially vertical guides, comprising: a pair of top sections; hinge means pivotally connecting edges of said sections, said sections being foldable from a coplanar relation with their pivoted edges adjacent, to a substantially parallel side-by-side relation; a first leg means pivoted to one of said top sections adjacent the free end thereof; a second leg means pivoted to the other of said top sections adjacent the free end thereof; a third leg means pivotally mounted on said hinge means of said sections; positioning means operatively connected between said third leg means and each of said sections, said positioning means being operative to maintain said third leg means vertical at all positions of said sections; connecting link means pivotally connected between said third leg means and each of said first and second leg means at points disposed equidistantly below said sections, said link means being operative to maintain said first and second leg means parallel to said third leg means; and laterally slidable bolt means at the free end of one of said table sections, said bolt means being releasably engageable in said guides to pivotally and slidably connect said table to the support.



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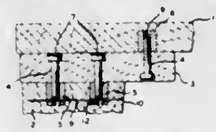
**2,650,147**
**KNOCKDOWN TABLE**
**Erle J. Sauder, Archbold, Ohio**
**Application July 1, 1952, Serial No. 296,535**
**2 Claims. (Cl. 311—35)**



1. In a knockdown table, a top having depending portions near its side edges adjacent to each end with vertical grooves therein in oppositely spaced relation, two pairs of legs each pair having a cross-piece connecting the upper ends of its legs, the cross-piece of each pair having end tenons for vertical insertion into the oppositely spaced grooves in the respective depending portions of the top and for binding engagement with the groove walls when the respective cross-pieces are outwardly canted, the legs of each pair being laterally springable from normal relation to the cross-pieces, and a brace frame connecting the pairs of legs intermediate their ends and having at each end a cross-piece disposed between and sprung into interengaging connection with the opposed legs of the respective pair whereby the pairs of legs are sprung outwardly lengthwise of the top and the legs of each pair are held in slightly outwardly spaced relation crosswise of the top.

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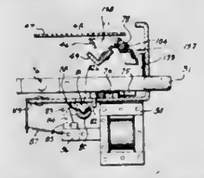
**2,650,148**
**APRONLESS TABLE AND LEG FASTENING THEREFOR**
**Jan Streng, Ridgefield, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware**
**Application June 28, 1952, Serial No. 296,120**
**2 Claims. (Cl. 311—110)**



1. An apronless wood table composed only of a top having an unobstructed under surface and a plurality of leg assemblies; said top having embedded in said under surface a plurality of internally threaded, metal, fastener-receiving bushings, said bushings having an end surface flush with said under surface of said top and accessible there to receive threaded top fasteners in attachment of said leg assemblies to said top; said leg assemblies each comprising a sub-top having flat parallel faces and at least one leg having an end abutting against the under face thereof and attached thereto, said legs each having embedded in said abutting end a plurality of internally threaded, metal, fastener-receiving bushings, said bushings having an end surface flush with said abutting end and accessible there to receive threaded leg fasteners in attachment of said legs to said sub-top; said sub-tops each having a plurality of threaded metal leg fasteners extending transversely therethrough in predetermined positions matching the positions of said internally threaded bushings embedded in said leg ends and engageable with said bushings in attachment of said legs to said sub-tops, said sub-tops further having a plurality of threaded metal top fasteners extending transversely therethrough, oppositely to said leg fasteners, in predetermined positions matching the positions of said internally threaded bushings embedded in the under surface of said top and engageable with said bushings in attachment of said leg assemblies to said top, said top fasteners and said matching bushings in said top being spaced outwardly from said leg fasteners and said matching bushings in said leg ends beyond the periphery of said abutting end of said legs.

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**2,650,149**
**AUTOMATIC VENDING MACHINE**
**Jaroslav Munz and Jaroslav Tichopad, Toronto, Ontario, Canada**
**Application September 16, 1949, Serial No. 116,018**
**3 Claims. (Cl. 312—66)**

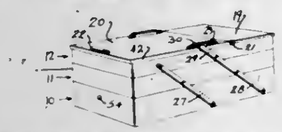


1. Merchandise discharging mechanism for a vending machine having a merchandise storing column and comprising in combination a merchandise support platform arranged beneath said column, a reciprocable carriage disposed beneath said platform and moveable from an initial to a final position, at least one bracket arm pivotally mounted on said carriage beneath said platform and including a push finger on the free end of said arm, a slot in said merchandise platform extending in the direction of movement of said carriage and designed to accommodate said arm but not the push finger thereof and having a gap at the initial and the terminal ends thereof to accommodate said push finger, means actuable by an operator for causing said arm and push finger to rise through the initial and end limit gap in the platform at the initial position of said carriage, means for moving said carriage to cause said push finger to engage and move an article of merchandise resting on said platform and spring means for causing the push finger to fall through the end limit gap of the platform as the carriage is moved to its final position and to cause said bracket arm and said

push finger to assume a position underlying said platform, and means for returning said carriage and said fingers by a path underlying said platform to the initial position.

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2,650,150
**LETTER SAFE**
Oscar H. Smith and Ethel M. Smith, Washington, D. C.
Application January 2, 1951, Serial No. 204,027
4 Claims. (Cl. 312—201)



1. A letter safe comprising a plurality of trays including base and top trays, a cover pivoted to said top tray, a slotted guide on said cover forward of the pivot and having a rear end wall, pairs of parallel spaced rigid links pivoted to and interconnecting said trays on opposite sides of said trays to support the trays in vertically spaced terraced relation and adapted to swing down to permit lowering of the trays in vertical register upon one another to effect closing of an under tray by superimposed upper tray, one of said links having an upward extension with a lateral projection entered and sliding in said guide, said one link being pivoted to the tray carrying said cover forwardly of the pivot of said cover and being adapted to raise the pivoted cover of said top tray incident to the opening of the trays into the spaced and terraced position and to automatically close the cover in a locked relation with said top tray when the trays are lowered into mutually closing condition, said projection adapted to encounter the rear end wall of the slotted guide as a stop in the fully open position of the trays and cover.

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# CHEMICAL

2,650,151
**ACRYLONITRILE COPOLYMERS**
George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware
No Drawing. Application April 22, 1950, Serial No. 157,637
18 Claims. (Cl. 8—55)

1. A copolymer of at least 80 per cent by weight of acrylonitrile and from two to 20 per cent of a compound of the group consisting of allyl glycidyl ether, methallyl glycidyl ether and β-chloroallyl glycidyl ether.

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2,650,152
**PRINTING ASSISTANTS FOR VAT COLORS COMPRISING ZIRCONIUM SALTS**
Jerry M. Mecco, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 21, 1951, Serial No. 238,019
15 Claims. (Cl. 8—70)

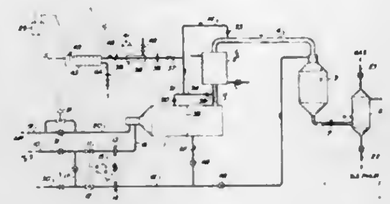
1. A vat dye composition comprising a vat dye and an effective amount of a zirconium salt.

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2,650,153
**PROCESS FOR THE PRODUCTION OF AMMONIUM URANIUM FLUORIDE**
Amy S. Ellis, Runcorn, and Ronald B. Mooney, Liverpool, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application December 17, 1943, Serial No. 514,717. In Great Britain January 16, 1942
9 Claims. (Cl. 23—14.5)

5. A process for the production of an ammonium uranium fluoride which comprises adding a compound selected from the group consisting of hydrofluoric acid, ammonium fluoride and ammonium bifluoride to an aqueous solution of a uranous compound containing an ammonium salt, and isolating the resulting precipitate.

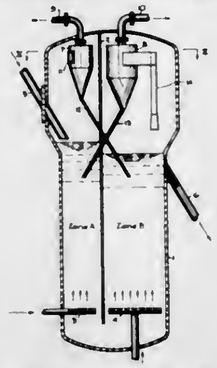
2,650,154
**PRODUCTION OF SULFUR FROM HYDROGEN SULFIDE**
Herbert M. Anderson, Concord, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware
Application June 29, 1949, Serial No. 102,018
1 Claim. (Cl. 23—225)



The process of producing sulphur which comprises dividing a preponderantly hydrogen sulphide gas stream into two portions the first of which is one-half the volume of the second, burning the first portion with gas containing free oxygen under conditions sufficient to convert substantially all the hydrogen sulfide in said first portion to sulfur dioxide, withdrawing a small but fixed-volume pilot stream from the products of combustion, cooling the pilot stream, causing the cooled pilot stream to react with a pilot stream of hydrogen sulphide, regulating the ratio of oxygen to total hydrogen sulfide fed to the process in accordance with the immediate temperature rise in the pilot reaction occurring at a point in said pilot reaction before a predominate amount of the sulfur dioxide is converted to sulfur, adding at least part of said second portion to the products of reaction at a point beyond the removal of the pilot stream while said products are at elevated temperature whereby further reaction occurs forming free sulfur, cooling the products of said further reaction to a temperature of about 500° F. to about 750° F., adding any remaining part of said second portion, and passing the mixture through a catalytic bed under conditions to form further sulfur.



2,650,155
**APPARATUS FOR STRIPPING AND REGENERATING SPENT ADSORPTIVE POWDERS**
William V. Medlin, Albany, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application July 16, 1951, Serial No. 236,991
2 Claims. (Cl. 23—288)



1. An apparatus for the stripping and regeneration of finely divided solids contaminated with combustible material which comprises in combination an elongated vertically disposed vessel, a vertical partition extending from the top of said vessel to a point short of the bottom thereof and dividing the vessel into a striping zone and a contiguous burning zone, an inlet conduit for contaminated solids entering the stripping zone, an outlet for regenerated solids leaving the burning zone, gas distribution means in the stripping and burning zones near the bottom thereof, a centrifugal dust collector in the burning zone in the upper part thereof communicating with a discharge conduit for spent combustion gases, a dip leg depending from said centrifugal dust collector, said dip leg passing through said partition and having its discharge end in the stripping zone, and an inlet duct extending downward a substantial distance from the point of entry of the gas feed into the centrifugal separator.

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2,650,156
**SURFACE FINISHING OF ALUMINUM AND ITS ALLOYS**
Eric Shelton-Jones, London, England, assignor, by mesne assignments, to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application September 10, 1947, Serial No. 773,311. In Great Britain September 13, 1946
10 Claims. (Cl. 41—42)

1. A process for brightening metal from the group consisting of aluminum and alloys thereof which comprises immersing the metal in a bath having as the essential components thereof phosphoric acid of the formula $H_3PO_4$ and water, the water being present in a proportion to the phosphoric acid at least equal to that existing in phosphoric acid of about S. G. 1.72 (which contains about 87.5% by weight of phosphoric acid of the formula $H_3PO_4$ and about 12.5% by weight of water) and in a total amount up to that existing in a solution of phosphoric acid of about S. G. 1.72 and 20 per cent by volume of the solution of added water (which solution contains about 24% by weight of total water), at a temperature of at least about 80° C.

2,650,157
**BRIGHTENING ALUMINUM**
William C. Cochran, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 31, 1947, Serial No. 795,125
9 Claims. (Cl. 41—42)

1. The method of chemically brightening a surface of an aluminum article which comprises immersing said article in a solution having as the essential components thereof, on a weight basis referred to the total weight of phosphoric acid, nitric acid and water therein, about 73 to 83 per cent phosphoric acid, about 2 to 5 per cent nitric acid and about 14 to 23 per cent water, the solution being maintained at a temperature above about 70° C., wherein the specularity of the surface of the aluminum article is improved as determined from luminous apparent reflectance measurements obtained by use of a standard Hunter Multipurpose Reflectometer.

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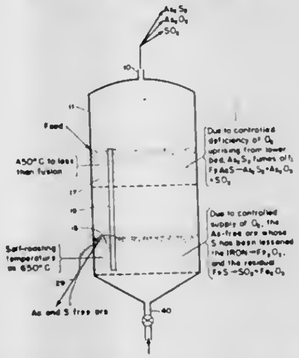
2,650,158
**SCOURING IMPLEMENT**
Don L. Eastman, Watertown, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application August 3, 1950, Serial No. 177,472
4 Claims. (Cl. 51—298)



1. A scouring implement comprising a foam rubber backing and a single layer of abrasive granules substantially one grit size in thickness adhesively secured thereto by means of a water insoluble adhesive having permanent flexibility and elongation, said adhesive comprising a blend of rubber and thermosetting resin, said foam rubber backing being of sufficient thickness to impart compressibility and handling strength to the article.

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2,650,159
**TREATING ARSENICAL GOLD ORES**
Donald T. Tarr, Jr., Denver, Colo., and François A. Fischer, Brussels, Belgium, assignors to The Dorr Company, Stamford, Conn., a corporation of Delaware
Application November 23, 1949, Serial No. 128,962
2 Claims. (Cl. 75—69)



1. The continuous process for roasting finely-divided gold-bearing arsenopyrite solids to render

their gold values amenable to cyanidation with minimum cyanide consumption, comprising the steps of establishing and maintaining a fluidized treatment bed of such solids in a primary treatment zone by feeding solids thereto and passing therethrough at solids fluidizing velocities an uprising stream of free-oxygen bearing gas while maintaining the solids at roasting temperatures less than fusion temperatures, and under such conditions effecting substantial removal of arsenic as volatile arsenic compounds to yield partially roasted arsenic-free solids by regulating the quantity of free-oxygen in the uprising gas stream to be an amount sufficient to oxidize a portion of the sulfide-sulfur content of the solids to sulfur-dioxide but insufficient to so oxidize all of such sulfur, discharging gases including volatile arsenic compounds from the bed and from the zone, discharging partially roasted arsenic-free solids from the primary zone to a secondary zone to establish in the latter zone a bed of such solids, treating solids of the latter bed under solids fluidizing conditions to yield substantially completely roasted solids by maintaining the bed at roasting temperatures less than fusion temperatures while passing therethrough at solids fluidizing velocities an uprising stream of gas initially containing free-oxygen in an amount at least sufficient to substantially oxidize all residual unoxidized oxidizable constituents of the bed solids, discharging gases from the zone, and discharging substantially oxidized arsenic-free solids from the zone.

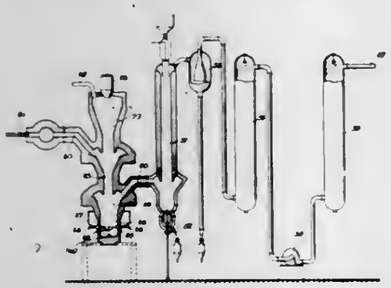
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**2,650,160**

## PRODUCTION OF IRON SPONGE FROM IRON ORE

**Friedrich Totzek, Essen (Ruhr), Germany, assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware**

**Application January 31, 1950, Serial No. 141,363**
**In Switzerland February 5, 1949**
**6 Claims. (Cl. 75—34)**



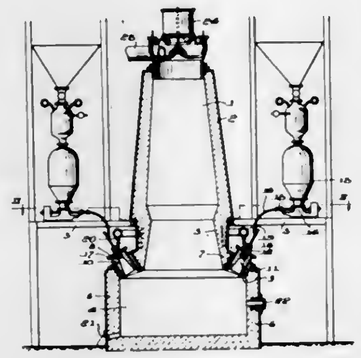
1. A method of reducing sponge iron ore comprising reacting a solid carbonaceous fuel with a gas containing at least 85% oxygen at above temperatures suitable for the reduction of sponge iron ore to produce a reducing gas containing at least 70% by volume carbon monoxide and hydrogen, the preponderant proportion of said reducing gas being carbon monoxide, cooling said reducing gas to about 1000° C., contacting said reducing gas with said sponge iron ore in an amount sufficient to reduce said iron ore to at least 85% metallic iron and to produce a spent reducing gas containing substantially carbon monoxide, hydrogen, and carbon dioxide, and removing carbon dioxide from said spent reducing gas.

**2,650,161**

## PRODUCTION OF IRON IN A BLAST FURNACE

**Friedrich Totzek, Essen (Ruhr), Germany, assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware**

**Application January 21, 1950, Serial No. 139,849**
**In Switzerland February 5, 1949**
**6 Claims. (Cl. 75—41)**



1. An improved process for producing metallic iron, from iron ore in a blast furnace by the introduction of pulverized solid fuel at the hearth of said blast furnace containing said ore, said process comprising: introducing the furnace charge of iron ore and flux along with lump solid carbonaceous fuel for direct reduction, for reaction with the metallic iron itself, and for gaseous permeability of the charge, into the blast furnace through the throat of the furnace; introducing the solid fuel for supplying the heat for the process by preforming outside the blast furnace hearth and at relatively low temperature a fluidized mixture of gas comprising more than 60 per cent, free oxygen and pulverized solid fuel with the oxygen in amount such as to yield by reaction with the solid fuel substantially only carbon monoxide but in amount such that the pulverized fuel of the mixture is substantially all utilized in conversion to carbon monoxide, flowing said mixture axially in the form of a jet into tuyères that communicate with the hearth of said blast furnace and initially igniting the mixture at the inlet of the tuyères and completing the thermal reaction to carbon monoxide of the reactants of said mixture in the tuyères in advance of emission from the tuyères into the hearth protecting the walls of the tuyères by surrounding the axial jet of the thermal reaction mixture, during its flow through the tuyères, with a surrounding flow of a gaseous reducing medium in direct contact therewith in the form of a reducing medium while the thermal reaction mixture is issuing into the tuyère path and flows through the tuyère path to the hearth; thereafter bringing the resultant thermal reaction mixture into contact with the iron ore at said blast furnace hearth, and passing the gases thereof upwardly through the furnace shaft through the furnace charge of iron ore, flux, and carbon introduced therewith as aforesaid through the throat of the furnace; and withdrawing the so produced blast gas from the upper part of the furnace shaft.



**2,650,162**

## WELD ROD

**Arthur T. Cape, Los Angeles, Calif., assignor to Coast Metals, Inc., Little Ferry, N. J., a corporation of Delaware**

**No Drawing. Application July 31, 1951, Serial No. 239,630**
**3 Claims. (Cl. 75—125)**

2. A weld rod which is especially adapted for hard facing parts of apparatus used in copper metallurgy and subjected to the corrosive and erosive effects of molten copper, copper oxide and copper matte, said rod containing chromium in amounts of from about 24% to about 40%, copper in amounts of from about .5% to about 3%, and carbon from .5% to 1.75%, the balance consisting essentially of iron.

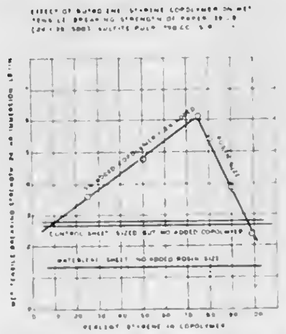
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**2,650,163**

## BUTADIENE-STYRENE SIZED PAPER AND METHOD

**Eleanor F. Horsey, Wilmington, and William Donald Thompson, Hockessin, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware**

**Application May 21, 1947, Serial No. 749,574**
**11 Claims. (Cl. 92—3)**



7. A paper, characterized by high sizing and wet strength, comprising cellulosic fibrous material and a high styrene copolymer of butadiene and styrene distributed substantially uniformly throughout the fibrous material, said copolymer being formed from between about 65% and about 85% styrene and the remainder butadiene, said copolymer being present in the amount of from about 1% to about 8% based on the cellulosic fibrous material.

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**2,650,164**

## PROCESS OF MAKING FERMENTED BEVERAGES

**Karl Franck, Terre Haute, Ind.**

**No Drawing. Application September 11, 1951, Serial No. 246,147**
**2 Claims. (Cl. 99—52)**

1. The process of preparing fermented beverages of pH of about 3.8 substantially free from sugars comprising preparing a mash of malt and soybean flakes at 37.5° C. and allowing said mash to stand for 30 to 60 minutes; heating said mash to 56.25° C. whereupon starch flakes are added and the temperature raised to about 62.5° C. and held for 45 to 60 minutes; heating to 71.25° C. and held at 71.25° C. for 15 minutes then raised to 75° C. and held there for 15 to 20 minutes whereupon the product is run to a brew kettle adding corn sugar boiling the entire mass; cooling the boiled wort to 10° C. and adding yeast to the cooled product; maintaining a fermentation temperature of 16.25–17.5° C. during fermentation; cooling the fermented product to 6.25–7.5° C. and storing at said temperature for about 30 days followed by storage at about 0° C. for another 30 day period.

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**2,650,165**

## MILK-PAPAYA POWDERS, BEVERAGES MADE THEREFROM, AND METHODS OF PRODUCING THE SAME

**Arnold S. Wahl, Chicago, Ill.**

**No Drawing. Application May 31, 1950, Serial No. 165,378**
**8 Claims. (Cl. 99—56)**

1. A method of making a proteolytic enzymatic preparation comprising reducing papaya fruit to a pulp, peptonizing said papaya fruit pulp, concentrating and drying said peptonized papaya fruit pulp to a powder, and adding papain having proteolytic enzyme activity to the powder at temperatures not in excess of 45° C.

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**2,650,166**

## MILK PRODUCT ENHANCED IN AMINO ACIDS AND PEPTIDES

**Frank H. Tinkler, Rexford C. Stribley, and John G. Kennedy, Mason, Mich., assignors, by mesne assignments, to American Home Products Corporation, New York, N. Y., a corporation of Delaware**

**No Drawing. Application April 7, 1950, Serial No. 154,724**
**4 Claims. (Cl. 99—57)**

1. A process of producing an edible lactose product containing not over 1 percent by weight of ash on a solids basis and enhanced in soluble non-coagulable hydrolysis products of milk protein which comprises digesting whey in the presence of a proteolytic enzyme until substantially the entire protein content of the whey is converted to a form non-precipitable by trichloroacetic acid, and demineralizing the digested whey by contact successively with a cation-exchange resin and an anion-exchange resin, the amount of resins used and the volume of solution treated being so chosen as to reduce the ash content of the solution to not over 1 percent by weight on a solids basis and provide an effluent having a pH between about 4.0 and about 7.0, whereby an effluent is produced the solids content of which consists for the most part of lactose containing less than 1 percent by weight of ash and enhanced in soluble non-coagulable hydrolysis products of milk protein.

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**2,650,167**

## METHOD FOR PREPARING FRESH FROZEN SEASONED HAMBURGER

**Octave P. Garsaud, Metairie, La.**

**No Drawing. Application April 25, 1951, Serial No. 222,949**
**1 Claim. (Cl. 99—194)**

A method for preparing fresh, frozen, seasoned hamburger patties comprising adding to a mass of ground beef, ingredients including salt and ice water, said ice water being employed in an amount sufficient to reduce the temperature of said mass substantially below room temperature and to carry said salt into said mass of beef, thoroughly mixing said mass of beef and said ingredients under conditions such that the temperature of said mass does not rise materially, maintaining the cold mixture so-formed without

substantial rise in temperature for a period of about five to about ten minutes to permit said ingredients to be taken up by said beef, thereafter rapidly combining with the cold mass of ingredients and beef, small amounts of dehydrated onions sufficient to flavor said hamburger patties, and immediately quick-freezing said dehydrated-onion containing product in the form of patties to produce fresh, frozen, seasoned hamburger containing dehydrated onions which have undergone no substantial rehydration.

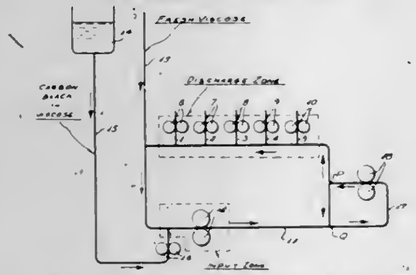
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**2,650,168**

## METHOD FOR DISPERSING AN IMMISCIBLE PIGMENT IN VISCOSE SOLUTION

**Pieter van Dijk, Velp, and Hans Alwin Schrenk, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C., a corporation of Delaware**

**Application September 1, 1949, Serial No. 113,622**
**In the Netherlands October 18, 1948**
**2 Claims. (Cl. 106—165)**



1. A process for uniformly dispersing an immiscible pigment in a viscose solution which comprises continuously introducing viscose and pigment into an input zone, continuously delivering the mixture from the input zone to a discharge zone, continuously withdrawing a portion of said viscose-pigment mixture from said discharge zone, continuously returning the remaining portion from said discharge zone to the input zone, and during the delivery of said mixture from said input zone to said discharge zone, increasing the homogeneity of said mixture by dividing the flow of mixture at a point downstream from the input zone and upstream from the discharge zone into two streams, and returning one of said streams to a point upstream from the point of division but downstream from the input zone.

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**2,650,169**

## PHOSPHORESCENT COATED SHEET MATERIAL

**Joseph Goldstein, Brookline, Mass.**

**Application September 28, 1949, Serial No. 118,325**
**6 Claims. (Cl. 117—33.5)**



1. A sheet having a phosphorescent coating having phosphorescent crystal pigments composed of substantially 50% crystals having calcium and strontium sulphides in the ratio of 15 and 85 percent respectively, and 50% crystals having strontium and calcium sulphides in the ratio of 8 and 92% respectively.

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**2,650,170**

## COATING MATERIAL, COATED FABRIC, AND PROCESS FOR PRODUCING IT

**Warren T. Kimball, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**Application January 27, 1951, Serial No. 208,206**
**9 Claims. (Cl. 117—68)**



2. A lightweight woven fabric impregnated on one side with a pyroxylin hydrophilic composition and sized on the opposite side with a composition comprising polyvinyl acetate, starch and an inert inorganic filler, said polyvinyl acetate, starch and filler being present in amounts represented by the polygon FGHIJ of the attached figure.

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**2,650,171**

## METHOD OF MAKING LIGHTWEIGHT COATED AGGREGATE GRANULES

**Cecil F. Schaaf, Flint, Mich.**

**No Drawing. Application February 25, 1950, Serial No. 146,385**
**2 Claims. (Cl. 117—70)**

1. A method of processing a lightweight aggregate for use in concrete mixtures, consisting in mixing an artificial lightweight siliceous aggregate of the group consisting of well burned cinders, burned clay and blast furnace slag with coarse vermiculite, coating the particles of artificial lightweight siliceous aggregate with a film of residual fuel oil having a specific gravity of from 7.4 to 8.8 to cause said particles to be impregnated, applying Portland cement to the thus coated particles and finally allowing said Portland cement to dry to form a hard, thin, shell-like coating on the external surfaces of said lightweight artificial aggregate particles, said Portland cement being wetted by the moisture in the pores of the aggregate mixture which is expelled by the fuel oil impregnation, said cement being set by said expelled moisture.

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**2,650,172**

## MOISTUREPROOFING OF NONFIBROUS CELLULOSIC MATERIAL

**William O. Brillhart, Fredericksburg, Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application January 21, 1949, Serial No. 72,065**
**12 Claims. (Cl. 117—76)**

1. In the production of cellulosic articles the improvement which comprises applying to the article while it is in the form of a wet gel prior to initial drying thereof as a step in its manufacture, an aqueous alkaline medium containing a water-soluble salt of a polymerization product of styrene and maleic anhydride containing about 50 mol per cent of styrene in the polymer molecule, said salt being formed with an alkaline agent selected from the group consisting of ammonia and amines having up to four carbons, removing excess treating medium, and thereafter heating the cellulosic article under controlled conditions of temperature and time to dry the article and insolubilize the polymerization product without volatilizing sufficient alkaline agent to convert the polymerization product to an acid condition, and then applying to the article a film-forming moistureproofing agent.



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**2,650,173**

## METHOD FOR DECREASING THE POROSITY OF CALCAREOUS AND SILICEOUS MATERIALS

**Charles Edwin Goulding, Jr., Caracas, Venezuela**

**No Drawing. Application July 9, 1951, Serial No. 235,897. In Venezuela May 3, 1951**
**3 Claims. (Cl. 117—118)**

1. In decreasing the porosity of concrete, plaster, unglazed brick, clay tile, stone and like porous material containing a polyvalent metal compound in ion-exchangeable form, the method which comprises applying to the said material a solution of a water soluble alkali metal salt of a higher fatty acid containing 11–22 carbon atoms to the molecule, maintaining contact of the said salt with the said metal compound in ion exchangeable form until a gel is formed by interaction between the said compound and salt and within the pores of the material, then contacting the resulting gel before it is dried with an aqueous solution of a water soluble polyvalent metal salt, the said polyvalent metal salt reacting with the gel to swell and harden it and form an insoluble reaction product, and continuing the contact of the polyvalent metal salt with the said gel until additional insoluble reaction product no longer forms at a substantial rate.

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**2,650,174**

## COATED RUBBER HYDROCHLORIDE PRODUCT

**Clarence M. Carson, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware**

**No Drawing. Application December 6, 1951, Serial No. 260,307**
**2 Claims. (Cl. 117—139)**

1. Film composed essentially of rubber hydrochloride and having a coating adhering thereto of 100 parts rubber hydrochloride, 15 to 60 parts chlorinated rubber of 67 per cent chlorine content and 5 to 125 centipoises viscosity, and 5 to 40 parts of microcrystalline wax.

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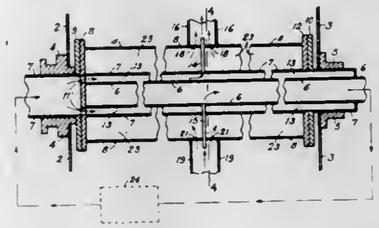
**2,650,175**

## SUGAR CRYSTALLIZER

**Luis M. Ibañez Rodriguez, Marianao, Havana, Cuba**

**Application June 6, 1951, Serial No. 230,099**
**In Cuba June 21, 1950**
**5 Claims. (Cl. 127—15)**

1. In an apparatus for uniformly cooling or reheating cooked sugar masses, a crystallizer tank having vertical end walls, a rotatable shaft composed of three concentrically spaced tubes in said tank and rotatably supported in said end walls, said shaft including flange means for supporting said three tubes in concentrically spaced relation and forming in said shaft two separate concentric annular spaces and an innermost central space, a plurality of series of circularly curved tubular elements secured each with their two ends to diametrically opposed but axially displaced points to the outermost tube of said shaft so as to be in communication with the outermost annular space of the same, radial tube means extending from the intermediate tube of said shaft into one end of said tubular elements



to conduct fluid from the innermost annular space in said shaft into said tubular elements, other radial tube means extending from the innermost tube of said shaft into the other end of said tubular elements to receive fluid from the same and conduct it into said innermost central space in said shaft, means extending through one of said end walls of said tank for connecting a source of fluid pressure with said innermost annular space in said shaft, and means connected with one end of said innermost tube for discharging fluid entering the same.

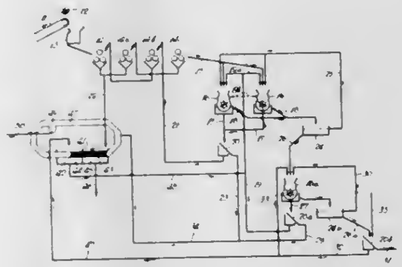
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**2,650,176**

## METHODS OF SEPARATING SUGAR JUICE, PITH, AND FIBER FROM STALKS

**Paul M. Horton and Arthur G. Keller, Baton Rouge, La., assignors to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La.**

**Application October 18, 1949, Serial No. 121,947**
**8 Claims. (Cl. 127—43)**

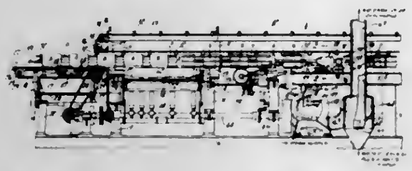


1. The method of purifying sugar containing juice obtained from crushed stalks containing sugar, pith and fiber, said method including separating the juice from the crushed stalks, breaking up the crushed stalks, separating the pith from the fibers in the presence of water, filtering the juice through the pith, washing sugar juice from the pith, and returning the wash water to the stalks being broken up.

**2,650,177**
**RESIN PURIFICATION OF SUGAR SOLUTIONS**
**Hendrik Willem Meijer, Veendam, Netherlands, assignor to N. V. Octrooien Maatschappij "Activit," Amsterdam, Netherlands, a limited liability company of the Netherlands**
**No Drawing. Application September 12, 1946, Serial No. 696,622. In the Netherlands January 9, 1941**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires January 9, 1961**
**6 Claims. (Cl. 127—46)**

1. Process for the removal of impurities of organic nature from a molasses solution which comprises contacting said solution with an undried resin resulting from the condensation of a mixture of resorcinol and meta-phenylene diamine with formaldehyde in the presence of a quantity of water sufficient to provide desired porosity and maintaining said resin in a moist condition until said contact is effected.

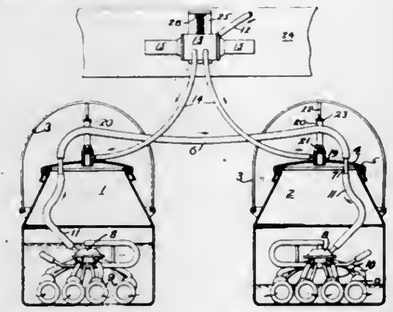
**2,650,178**
**METHOD OF WASHING THE SIDE SEAMS OF CAN BODIES**
**William McK. Martin, San Mateo, Calif., and Walter F. Pillnik, Harvey, and Delbert E. Wobbe, Maywood, Ill., assignors to American Can Company, New York, N. Y., a corporation of New Jersey**
**Original application December 13, 1943, Serial No. 514,124, now Patent No. 2,461,559, dated February 15, 1949. Divided and this application November 8, 1948, Serial No. 58,868**
**4 Claims. (Cl. 134—15)**



2. A method of removing adhering particles of foreign matter including flux from the side seams of tubular container bodies after the fluxing and soldering of the seams of the bodies, which method comprises passing container bodies in processional order with the side seams in alignment, mixing a liquid cleaning substance with steam, first projecting said mixture at high velocity against said fluxed and soldered side seams as a coarse spray of cleaning fluid for dissolving the foreign particles and scouring the side seams, then projecting a finer spray of cleaning fluid at higher velocity against the surface of the side seam already sprayed to wash away the dissolved particles, and simultaneously confining said fine sprays by transversely directed coarse sprays to concentrate and prevent splashing of the fine sprays.

**2,650,179**
**METHOD OF AND APPARATUS FOR WASHING MILKING MACHINES**
**Austin E. Anderson, Jamestown, N. Y.**
**Application May 8, 1948, Serial No. 25,947**
**5 Claims. (Cl. 134—22)**

1. Washing apparatus for the claw and teat cup assemblages of a milking machine, comprising a pair of liquid containing chambers, closure means sealing and giving access to the same, a transfer passage connecting the two chambers and having its opposite ends connectible to respective claw and cup assemblages in the chambers for opening into the latter through the milk passages of the cups, and a pulsator connected to the two chambers and acting first to connect one chamber to a source of operating pressure and the companion chamber to the atmosphere concurrently and then to reverse the connections to displace the liquid alternately from one chamber to the other through the milk passages of the claw and cup assemblages and the connecting transfer passage.



4. A method of washing milking machine teat cups, consisting in placing the cups on their sides in a submerging volume of liquid within a chamber, then displacing the liquid from the chamber through the cups by a gas pressure until the liquid level falls sufficiently to admit pressure gas into the cups along with the liquid for agitating the latter, and maintaining the gas pressure for a predetermined time interval to produce a prolonged period of turbulence within the cups.

**ERRATUM**

For Class 136—154 see:
Patent Number 2,649,766

**2,650,180**
**INSULATING DEVICE FOR PIPES, FAUCETS, AND THE LIKE**
**Stanley F. Walker, Montgomery, Ala.**
**Application July 5, 1951, Serial No. 235,316**
**3 Claims. (Cl. 154—44)**



1. A device of the character described comprising a plurality of pairs of shell members each of which has a main portion that is substantially semi-circular in cross section and has at both sides outwardly extending longitudinal flange portions each of which is provided adjacent said main portion with a longitudinal groove which is semi-circular in cross-section and the edge sections of said flange portion adjacent said groove being rounded, resilient clamps engaging said grooves of each pair of said shell members and holding the latter together so that each pair of said shell members is adapted for encompassing a portion of a pipe, and insulating material interposed between the outer side of the pipe and the inner sides of said shell members.



**2,650,181**
**ADHESIVE COMPOSITION, STRUCTURE EMBODYING SAME, AND PROCESS OF MAKING**
**David D. M. Streed and Jack M. Broadhurst, South Bend, Ind., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey**
**Application February 13, 1951, Serial No. 210,696**
**12 Claims. (Cl. 154—53.5)**



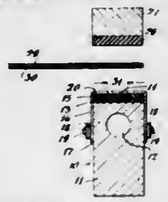
4. An article of manufacture comprising a backing material having on a surface thereof a layer of a pressure sensitive adhesive composition comprising a thermoplastic copolymer of styrene and isobutylene in proportions ranging from 40 to 60 per cent of styrene and from 60 to 40 per cent of isobutylene, a pressure sensitivity-imparting component selected from the group consisting of diethylene glycol and triethylene glycol esters of $C_6$ to $C_{10}$ aliphatic saturated monocarboxylic acid in an amount ranging from 50 to 125 parts per 100 parts of said copolymer, and a glycerin ester of hydrogenated rosin in an amount ranging from 70 to 200 parts per 100 parts of said copolymer.

**2,650,182**
**METHOD OF FORMING WATERPROOF GARMENTS**
**Charles V. Green, Pasadena, Calif.**
**Application June 14, 1951, Serial No. 231,578**
**3 Claims. (Cl. 154—125)**



1. The method of forming a garment of the character stated, which method comprises providing a length of thermoplastic material in tubular form, flattening the tube and spot sealing opposite sides of the tube together at spaced intervals longitudinally of the tube, and then dividing the tube transversely through each seal spot and on lines lying midway between the seal spots.

**2,650,183**
**HEATSEALING METHOD**
**Nicholas Langer, New York, N. Y.**
**Original application July 15, 1950, Serial No. 174,074. Divided and this application August 7, 1951, Serial No. 240,653**
**4 Claims. (Cl. 154—126)**



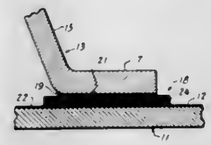
1. The method of heatsealing layers of thermoplastic film which comprises pressing one face of a strip of sheet metal against said layers, generating a pulse of sealing heat at the other face of said strip and in a region narrower than said strip to transfer such pulse of heat by conduction through the thickness of the strip to said layers of film and to cause heatsealing thereof in said region, and withdrawing residual heat from said strip by conduction in the plane thereof through a direct metallic path including the lateral marginal portions of the strip into a body of relatively high heat capacity.

**2,650,184**
**COATED CLOTH AND OTHER RESIN AND FIBER COMPOSITIONS**
**Lawrence P. Biefeld, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware**
**Application January 25, 1947, Serial No. 724,316**
**2 Claims. (Cl. 154—128)**



2. The method of making a sheet of the type described consisting of forming a textile fabric of strands of glass fibers, coating the fibers with a resinophobic composition having lubricating characteristics to reduce the wetting out and adhesion of resinous materials to the glass fiber surfaces, coating the textile fabric with a pliable film of a resinous material which because of the resinophobic characteristics of the glass fiber surfaces is incapable of substantial penetration into the strands to bind the glass fibers but is capable of penetration through the interstices between the strands in the fabric to form resinous islands by which the coatings are interlocked one with the other, and then treating the coated fabric to harden the resinous material.

**2,650,185**
**METHOD OF BONDING FAYING SURFACES OF METALLIC MEMBERS**
**John W. Larson and Douglas A. Tooley, Fort Worth, Tex., assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware**
**Application May 18, 1950, Serial No. 162,698**
**4 Claims. (Cl. 154—129)**



1. A method of joining faying surfaces of metallic members comprising applying on said faying surfaces a high pressure-heat sensitive, thermosetting resin adhesive coating, interposing between the coated faying surfaces a laminated bonding tape comprising a flexible supporting body, inner laminae of a low pressure-heat sensitive, thermosetting resin adhesive adhered to the opposite faces of said supporting body, said adhesive composing the inner laminae comprising the product of 66⅔% to 20% by weight of an alcohol soluble synthetic linear polyamide and 33⅓% to 80% by weight of a compatible phenol formaldehyde resin, and outer laminae of a high

pressure-heat sensitive thermosetting resin adhesive adhered to said first adhesive laminae, which latter adhesive is of the same character as that adhesive coating applied to the faying surfaces and comprises the product of a mixture of 100 parts, by weight, of a synthetic rubber selected from the group consisting of chloroprene polymers and butadiene acrylic nitrile copolymers and 20 to 50 parts, by weight, of a compatible phenol formaldehyde resin, and then hardening the various adhesives by the application of heat.

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**2,650,186**

## RODENTICIDAL COMPOSITIONS

**Gerhard Hecht, Wuppertal-Vohwinkel, Hans Henecka, Wuppertal-Elberfeld, and Marianne Meisenheimer, Leverkusen-Bayerwerk, Germany, assignors to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany**

**No Drawing. Application December 10, 1949, Serial No. 132,408. In Switzerland December 22, 1948**

**3 Claims. (Cl. 167—46)**

1. A process for preparing a highly toxic, crystalline, condensation product having the empirical formula $(C_2H_4O_2N_2S)_2$ and a decomposition point between 255 and 260° C., which comprises reacting one mol of sulfuryl amide with two mols of formaldehyde in an amount of a concentrated aqueous mineral acid substantially greater than the total amount of said reactants, and separating the crystalline precipitate formed from the solution.

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## ERRATUM

For Class 167—58 see:
Patent Number 2,649,918

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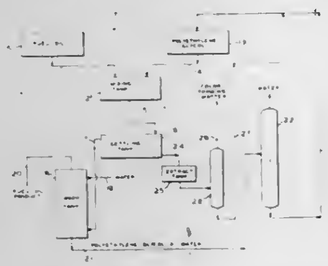
**2,650,187**

## COLOR STABILIZATION OF FUEL OILS

**Earl C. Daigle, Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York**

**Application November 15, 1950, Serial No. 195,795**

**14 Claims. (Cl. 196—14.41)**



1. A method for reducing sedimentation and stabilizing the color of a distillate type fuel oil boiling between about 300° F. and about 700° F. and subject to sediment formation and discoloration upon storage, which comprises liquid phase contacting of said oil with a polyethylene glycol characterized by a molecular weight of at least about 600 and substantially complete solubility in water, the amount of said polyethylene glycol present being not less than about 2 per cent and not more than about 25 per cent by weight of the oil, forming immiscible phases comprising an oil layer mixed with a small amount of said polyethylene glycol and a second layer comprising the bulk of said polyethylene glycol together with deleterious matter removed from said oil, separating said immiscible phases and recovering oil of improved sedimentation and color stability from said oil layer.

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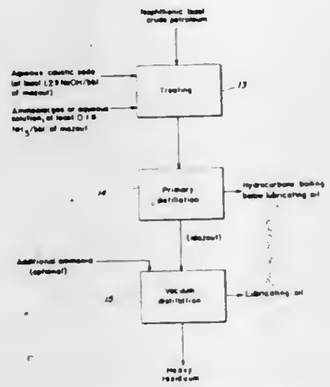
**2,650,188**

## PREPARATION OF LUBRICATING OIL

**George E. Reese, Wallingford, and John L. Larkin, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey**

**Application November 1, 1949, Serial No. 124,892**

**4 Claims. (Cl. 196—41)**



1. In a process for preparing lubricating oil from naphthenic base crude petroleum wherein hydrocarbons boiling below the lubricating oil range are removed as distillate in a primary distillation step and lubricating oil is removed as distillate in a subsequent vacuum distillation step, the steps for producing lubricating oil having improved bloom and color stability characteristics which consist of reacting the charge to one of said distillation steps with ammonia in the presence of caustic soda, said ammonia and caustic soda having been added in amounts of at least 1.2 lbs. NaOH and 0.1 lb. $NH_3$, respectively, per bbl. of mazout resulting from said first distillation step.

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**2,650,189**

## CATALYTIC CRACKING OF DEWAXED PETROLEUM HYDROCARBONS

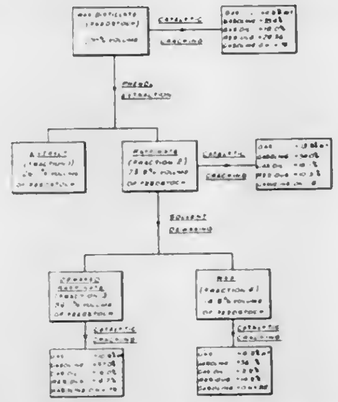
**John Norman Haresnape and Ernest Carlton Housam, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation**

**Application March 1, 1949, Serial No. 78,994**

**In Great Britain March 2, 1948**

**2 Claims. (Cl. 196—50)**

1. A catalytic cracking process for the recovery of a gasoline fraction from a wax distillate comprising treating a wax distillate with a solvent for aromatic hydrocarbons, separating an aromatic extract and a waxy raffinate from the treated distillate, treating the waxy raffinate with a dewaxing solvent, separating wax and a dewaxed raffinate, subjecting the dewaxed raffinate to catalytic cracking and fractionating the



cracked products as such for the recovery of a gasoline fraction.

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**2,650,190**

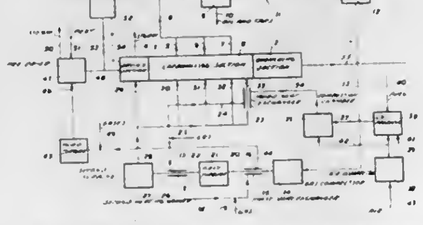
## CARBONIZATION OF PEAT WITH THE UTILIZATION OF EXCESS HEAT TO PRODUCE SURPLUS POWER

**Michael Steinschlaeger, London, England**

**Application June 5, 1950, Serial No. 166,235**

**In Great Britain June 21, 1949**

**5 Claims. (Cl. 202—30)**



1. A process for the carbonisation of solid fuels which comprises passing the fuel to be carbonised in succession through drying, carbonising and quenching zones in a carbonisation plant, removing gases and vapours from a plurality of outlets in the carbonising zone, separating oils and tars from said gases, compressing the thus treated gases, heating the compressed gases in a heat exchanger, passing the heated compressed gases through a first turbine, heating the exhaust gases from the first turbine in a second heat exchanger, passing the heated gases through a second turbine and splitting the exhaust gases from the second turbine into a plurality of streams, passing at least one of said streams through said drying zone and passing at least one other of said streams through said carbonising zone, burning a combustible gas, utilising a part of the sensible heat of the combustion gases thus produced to effect heating of the gases passing into said carbonising zone from said second turbine by heat exchange, then passing said combustion gases through said second heat exchanger and said first heat exchanger in sequence.



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**2,650,191**

## PREPARATION OF TWO-SIDED MOSAIC

**Gordon K. Teal, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application December 29, 1948, Serial No. 67,915**

**3 Claims. (Cl. 204—3)**



1. The method of preparing a two-sided mosaic screen or target which comprises the steps of placing a sticky coating on a magnetic pole-piece, dropping a multiplicity of tiny magnetic wires upon said sticky substance to be held in a substantially vertical position with respect to the surface of said substance by the action of said pole-piece, removing the pole-piece, embedding the exposed end of each wire in a support member, removing the sticky coating, covering each of the then exposed ends of said wires with insulating material, filling in the spaces between said insulated wires with conducting material, buffing said conducting material to expose the covered end of each of said wires and to form a smooth surface of conducting material interspaced with insulating material, removing the support member to expose the other end of each of said wires, and electroplating heads of metallic material on the ends of said wires exposed by the removal of the support member.

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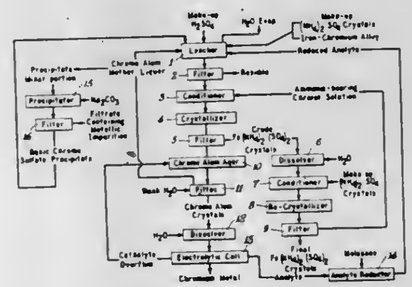
**2,650,192**

## ELECTROWINNING OF CHROMIUM

**Michael C. Carosella and John D. Mettler, Niagara Falls, N. Y., assignors to Union Carbide and Carbon Corporation, a corporation of New York**

**Application June 7, 1951, Serial No. 230,412**

**3 Claims. (Cl. 204—105)**



1. In a cyclic process for the electrowinning of metallic chromium utilizing a compartment cell and an electrolyte prepared from an iron-chromium alloy, wherein said iron-chromium alloy is leached with sulfuric acid, successively crystallized to remove iron impurities and produce chromium ammonium alum crystals and a chrominum ammonium alum mother liquor, said crystals being dissolved to form the electrolyte, and said mother liquor being recycled to the leaching step, the improvement which comprises recycling the major portion of said chromium ammonium alum mother liquor to said leaching step; adding a minor portion of said chromium ammonium alum mother liquor, under substantially non-oxidizing conditions, to an aqueous solution containing a base selected from the group consisting of the alkalies and alkaline earth metal

bases at a temperature above 60° C. until a final pH below approximately 3.8 is obtained to form a basic chromium sulfate precipitate: separating said precipitate from the solution containing the metallic impurities; and adding said precipitate to the leaching step.

2,650,193

## METHOD OF PREVENTING FLOTATION OF FLOC

**Anton A. Kalinske, Elmhurst, Ill., and Le Roy Henry Scott, Orlando, Fla., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware**

**No Drawing. Application September 23, 1947, Serial No. 775,746**

**6 Claims. (Cl. 210—23)**

1. In the coagulation of water of a type wherein the flocs formed tend to float, the steps of disintegrating the floating flocs by aeration, thereafter forming the disintegrated flocs into large dense flocs by the admixture of activated silica to the water containing disintegrated flocs, and separating the water from the flocs.

2,650,194

## WELL DRILLING COMPOSITION AND METHOD OF MANUFACTURE THEREOF

**Henry W. Rahn, Corpus Christi, Tex., assignor to Columbia-Southern Chemical Corporation, a corporation of Delaware**

**No Drawing. Application September 7, 1949, Serial No. 114,461**

**20 Claims. (Cl. 252—8.5)**

1. A solid granular well-treating composition produced by heating an aqueous liquid mixture of an alkali metal hydroxide and a tannin at a temperature of 250 to 650° F., until a solid reaction product has been obtained, the amount of alkali metal hydroxide in said composition being substantially in excess of that required to react with the tannin to produce a neutral product.

2,650,195

## METHOD OF PREVENTING LOSS OF FLUID INTO THIEF FORMATIONS

**Paul H. Cardwell and Frank H. Braunlich, Jr., Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware**

**No Drawing. Application May 26, 1952, Serial No. 290,086**

**1 Claim. (Cl. 252—8.5)**

The method of controlling loss of circulation fluid from a well hole into a thief zone which comprises introducing into the circulation fluid particulated solids having a coating thereon of a resinous liquid of a partially condensed mixture of a phenol and an aldehyde and containing an alkali catalyst capable of promoting further condensation of the resinous liquid into a hard resin, said coating containing in its surface a condensation promoting agent of an amine selected from the group consisting of phenylethanolamine, di-2-ethylhexylamine, octylamine, hexylamine, heptylamine, and di-isoamylamine.

2,650,196

## WELL DRILLING COMPOSITION AND METHOD OF MANUFACTURE THEREOF

**Henry W. Rahn, Corpus Christi, Tex.**

**No Drawing. Application April 21, 1953, Serial No. 349,993**

**22 Claims. (Cl. 252—8.5)**

1. A method of preparing a composition which comprises forming an aqueous dispersion of a tannin containing bark and sodium hydroxide in an amount in excess of that which will react with the bark components, and heating the mixture at a temperature above 100° C. but below a temperature at which substantial pyrolysis of the bark components occurs, until a dry product is obtained.

2,650,197

## WELL DRILLING COMPOSITION AND METHOD OF MANUFACTURE THEREOF

**Henry W. Rahn, Corpus Christi, Tex.**

**No Drawing. Application April 21, 1953, Serial No. 349,994**

**17 Claims. (Cl. 252—8.5)**

1. A solid, granular well treating composition comprising an alkali metal hydroxide and a carboniferous mineral containing at least 10 percent by weight of humic acid, said composition having been at least partially dehydrated by heating a mixture of alkali metal hydroxide, water, and the carboniferous mineral to produce a solid composition, the temperature of heating during at least a portion of the heating being above 90° C. but below the temperature at which substantial pyrolysis of the humic acid components occurs until a dry product has been obtained; the amount of alkali metal hydroxide in said composition being in excess of that required to react with the humic acid to produce a neutral product.

2,650,198

## OIL-SOLUBLE PETROLEUM SULFONATES

**Walter Krönig, Hamburg-Blankenese, and Hans Seeles and Harry Burmeister, Hamburg, Germany, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware**

**No Drawing. Application March 14, 1951, Serial No. 215,644. In the Netherlands March 16, 1950**

**1 Claim. (Cl. 252—33.4)**

A process for the preparation of an oil solution of ammonium petroleum sulfonates which comprises: sulfonating a mineral oil fraction; separating an oil solution of petroleum sulfonic acids from the resulting sulfonation admixture; neutralizing the oil-soluble petroleum sulfonic acids in said oil solution with an aqueous alcoholic solution of a basic-acting alkali metal compound; concentrating the resulting oil-soluble alkali metal petroleum sulfonates by removal of the alcohol from admixture therewith; dissolving the concentrated oil-soluble alkali metal petroleum sulfonates in a highly refined mineral oil having a viscosity of between about 50 and about 180 S. S. U. at 100° F.; converting said petroleum sulfonates in the resulting oil solution to their corresponding petroleum sulfonic acids by treating with a mineral acid; adding thereto a minor amount sufficient to prevent an increase in viscosity of said oil solution during a subsequent neutralization step of metaphosphoric acid and neutralizing the resulting admixture of petroleum sulfonic acids and meta-phosphoric acid in oil with ammonia.

2,650,199

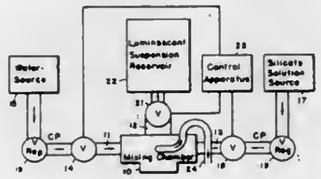
## METHOD OF MIXING AND DISPENSING A LUMINESCENT COATING COMPOSITION

**Jerome J. O'Callaghan, Skokie, Ill., assignor to The Rauland Corporation, a corporation of Illinois**

**Application January 15, 1952, Serial No. 266,494**

**3 Claims. (Cl. 252—301.4)**

1. The process of mixing within and discharging from a common mixing chamber a luminescent coating composition including, as ingredients, predetermined quantities of a suspension of luminescent material and a silicate solution, and water, which process comprises the steps of: establishing a flow of each of said ingredients into said mixing chamber and regulating the flow of each of said ingredients to an assigned preselected value; discharging the admixture from said mixing chamber in timed relation to the influx of said ingredients; selectively terminating the flow of said suspension of luminescent material and of said silicate solution into said mixing chamber to obtain said predetermined quantities thereof while continuing the influx of water to flush said chamber; and thereafter terminating the discharge from said mixing chamber and the influx of water, leaving said mixing chamber filled with water and effectively preventing entry of air thereinto.






2,650,200

## PROCESS OF MAKING A CONCENTRATED SILICA SOL

**Ralph K. Iler and Frederick J. Wolter, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware**

**Application December 14, 1951, Serial No. 261,836**

**3 Claims. (Cl. 252—313)**

1. In a process for making a concentrated silica sol the steps comprising adding an alkali metal silicate to a silica sol, the alkali metal ion concentration of the mixture being less than 0.7 normal and the pH being above 8, and contacting the mixture with the ammonium form of a cation-exchanger.

2,650,201

## PRODUCTION OF PHOSPHORIC ACID CATALYST

**Julian M. Mavity, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware**

**No Drawing. Application October 2, 1950, Serial No. 188,061**

**13 Claims. (Cl. 252—435)**

1. A process for improving the structural strength of a calcined composite of an acid of phosphorus and a solid supporting material which comprises treating said composite with a hydrolyzable compound of a metal selected from the group consisting of titanium, zirconium, and tin in an amount sufficient to add from about 1 to about 10% by weight of a phosphate of said metal to said calcined composite, and further calcining the resultant composite to form a solid catalytic material of greater structural strength than that of the original calcined composite of phosphoric acid and solid supporting material.

2,650,202

## PRODUCTION OF SILICATE ADSORBENT

**Russell J. Hawes, Cranford, N. J., and Charles C. Winding, Ithaca, N. Y., assignors to Tide Water Associated Oil Company, New York, N. Y., a corporation of Delaware**

**No Drawing. Application February 15, 1951, Serial No. 211,185**

**10 Claims. (Cl. 252—449)**

1. A method for preparing hard granular particles of percolant size from a mass of sub-percolant size particles of a hard granular silicate of an alkaline earth metal replaceable in ionic or base exchange reaction with another alkaline earth metal which comprises the steps of (*a*) producing from said mass a controlled size particle mass having an average particle size not in excess of about 15 microns, containing not more than a small amount of particles over 40 microns in size and such that particles in said controlled size particle mass cohere upon drying, said step (*a*) including the addition of water to at least one of the aforesaid masses in an amount sufficient to provide said controlled size particle mass as an aqueous slurry, and (*b*) drying said aqueous slurry of the controlled size particle mass to a hard dry mass reducible to a substantial amount of hard granular percolant size particles.

2,650,203

## PREPARATION OF SILICATE ADSORBENTS

**Russell J. Hawes, Cranford, N. J., and Charles C. Winding, Ithaca, N. Y., assignors to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware**

**No Drawing. Application February 15, 1951, Serial No. 211,186**

**8 Claims. (Cl. 252—457)**

1. In a process for production of hard granular synthetic alkaline earth metal silicates of percolant size by precipitating under controlled conditions a silicate of an alkaline earth metal replaceable by another alkaline earth metal in a cation or base exchange reaction and which silicate is driable to a hard cake grindable to hard granular particles, drying the precipitate to a hard cake, grinding the cake to a mass of hard granular percolant size particles and a mass of sub-percolant size particles and subjecting said percolant size particles to said cation or base exchange reaction, the improvement, providing for substantial conversion of said mass of sub-percolant size particles to hard granular particles of percolant size, which comprises producing from said mass of sub-percolant particles a controlled size particle mass having an average particle size not exceeding about 50 microns and containing not more than a small amount of particles over about 50 microns in size and introducing said controlled size particle mass into the aforesaid process prior to drying the precipitate.

2,650,204

## PREPARATION OF CATALYSTS

**Peter William Reynolds and Anthony Arthur Leonard Challis, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain**

**No Drawing. Application April 28, 1950, Serial No. 158,932. In Great Britain May 4, 1949**

**5 Claims. (Cl. 252—476)**

4. A process for the preparation of a foraminate catalyst comprising at least one catalytic

metal selected from the group consisting of copper, cobalt, nickel and iron which comprises treating an alloy selected from the group consisting of copper-aluminum containing from 40 to 80% by weight of copper, copper-silicon containing from 50 to 92% by weight of copper, cobalt-aluminum containing from 15 to 55% by weight of cobalt, cobalt-silicon containing from 30 to 75% by weight of cobalt, nickel-aluminum containing from 30 to 65% by weight of nickel, nickel-silicon containing from 30 to 85% by weight of nickel and iron-aluminum containing from 30 to 60% by weight of iron in the liquid phase at a temperature of from at least 100° to 300° C. with a monohydric phenol containing at most eight carbon atoms for a time sufficient to extract a substantial portion of and not more than 70% of the extractible element.

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**2,650,205**

**ALKALINE-SETTING RESIN-STARCH REACTION PRODUCT AND METHODS OF PREPARATION THEREOF**

**Carl C. Kesler and Erling T. Hjermstad, Cedar Rapids, Iowa, assignors to Penick & Ford, Ltd., Incorporated, Cedar Rapids, Iowa, a corporation of Delaware**

**No Drawing. Application September 12, 1950, Serial No. 184,512**

**16 Claims. (Cl. 260—9)**

16. In a process for preparing from alkaline setting resins and granule starch a reaction product characterized by being susceptible to gelatinization to form pastes having stabilized viscosities, the step of reacting filterable, granule starch in a water medium at a pH from 7.0 to 11.0 with from .05 to 2.0% on a starch basis of a water-soluble alkaline setting resin selected from the group consisting of ketone-aldehyde resins, resorcinol-aldehyde resins and phenol-aldehyde resins by heating said reactants under non-gelatinizing conditions, said starch granules being at no time hydrated to the degree that leaching out of the granule constituents away from the granule proper occurs so that said starch granules remain in filterable condition upon completion of said reaction.

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**2,650,206**

**HEAT-RESISTANT COMPOSITION AND METHOD OF MAKING SAME**

**Robert P. Stock, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York**

**No Drawing. Application April 25, 1950, Serial No. 158,065**

**4 Claims. (Cl. 260—17.4)**

1. A coating composition comprising 20 to 60 percent by weight based on the total weight of said coating composition of a rubbery polymer of chloroprene, a volatile liquid diluent, a carbohydrate, and a foaming agent selected from the group consisting of aluminum sulfate, ammonium sulfamate, ammonium sulfate, monoammonium phosphate, diammonium phosphate, phosphoric acid, ammonium bromide, zinc chloride, boric acid and sodium tungstate, said carbohydrate comprising 30 to 80 percent by weight of the total weight of said coating composition and said foaming agent comprising 30 to 80 percent by weight of the total weight of said carbohydrate and foaming agent present in said coating composition.

**2,650,207**

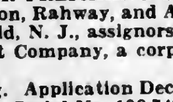
**COMPOSITIONS COMPRISING COPOLYMERS OF VINYLIMIDES AND UNSATURATED ALKYD RESINS AND PROCESS OF MAKING SAME**

**John B. Rust, Verona, and William B. Canfield, Montclair, N. J., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey**

**No Drawing. Application November 17, 1949, Serial No. 128,011**

**10 Claims. (Cl. 260—45.4)**

1. A hardenable composition, having storage stability and curing rapidly at temperatures from 120° to 200° C., comprising, as sole reactive components, a polymerizable unsaturated alkyd resin obtained by reaction of ingredients comprising a dihydric alcohol and an alpha unsaturated alpha beta dicarboxylic acid, a solid N-vinylimide of the formula



wherein R is a divalent radical selected from the group consisting of alkylene and arylene radicals, and a catalyst for accelerating the hardening reaction of said mixed components when heated, the proportion of said vinylimide being from 1% to 50% of the mixture of vinylimide and unsaturated alkyd resin and said vinylimide being present as a solid.

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**2,650,208**

**STABILIZERS FOR RUBBER AND SYNTHETIC POLYMERS**

**William F. Arey, Jr., and Robert E. Wood, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application October 18, 1949, Serial No. 122,136**

**13 Claims. (Cl. 260—45.95)**

1. A high molecular weight elastomeric polymerization product of a feed containing at least a major proportion of aliphatic hydrocarbon compounds selected from the group consisting of mono-olefins and multi-olefins having from 4 to 14 carbon atoms per molecule and which is normally subject to deterioration in the presence of oxygen, which contains in admixture therewith a small quantity, sufficient to substantially reduce such deterioration, of the condensation product prepared by reacting a diolefin and a polyhydric phenol in the presence of a hydrate of ferric chloride, the said condensation product containing two aromatic nuclei.

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**2,650,209**

**SYNTHETIC DRYING OILS AND METHODS FOR PREPARING SAME**

**Joseph F. Nelson, Rahway, and Anthony H. Gleason, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware**

**No Drawing. Application December 1, 1950, Serial No. 198,742**

**5 Claims. (Cl. 260—63)**

1. A process for preparing a drying oil which comprises mixing a cyclopentadiene with an acylated linear copolymer of about 10 to 30% styrene and 90 to 70% isobutylene having a molecular weight between about 1,000 and 20,000 and containing about 0.2 to 1 mole of combined acyl groups per mole of aromatic styrene nuclei of the copolymer chain, about 0.5 to 1.2 moles of the cyclopentadiene being present in the reaction mixture per mole of combined acyl groups and maintaining the mixture at 10° to 50° C., in the presence of a metal alcoholate condensing agent until the cyclopentadiene and the carbonyl groups of the acylated copolymer are condensed with the elimination of water.



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**2,650,210**

**POLYMERIC MATERIAL DERIVED FROM N-METHYLOL PARAVINYL BENZAMIDE**

**John Noel Milne, Epsom Downs, Donald Faulkner, Epsom, and Charles Edward Hollis, Ewell, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company**

**No Drawing. Application August 1, 1950, Serial No. 177,136. In Great Britain August 25, 1949**

**6 Claims. (Cl. 260—72)**

1. A polymeric material comprising N-methylol paravinyl benzamide units.

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**2,650,211**

**POLYESTERS OF ALKENYL-SUCCINIC ACIDS**

**Hans Dannenberg, Berkeley, and James R. Scheibli, San Lorenzo, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware**

**No Drawing. Application May 2, 1949, Serial No. 91,024**

**7 Claims. (Cl. 260—75)**

1. A polyester obtained by heating and reacting octadecenylsuccinic anhydride with an equal molecular to 30% excess of diethylene glycol.

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**2,650,212**

**ADHESIVE COMPOSITION COMPRISING A DIISOCYANATE MODIFIED POLYESTER**

**Erwin Windemuth, Leverkusen-Bayerwerk, Germany, assignor to Farbenfabriken Bayer Aktiengesellschaft, Leverkusen, Germany, a corporation of Germany**

**No Drawing. Application August 20, 1949, Serial No. 111,565**

**12 Claims. (Cl. 260—75)**

12. A stable, anhydrous adhesive composition comprising substantially linear diisocyanate modified polyester produced by the reaction of an aliphatic diisocyanate with a polycarboxylic acid polyester, said reaction product containing as sole reactive groups isocyanate groups linked to aliphatic carbon atoms, and a catalytic amount of a tertiary amine free of reactive hydrogen, said composition being capable of solidifying upon admission thereto of water.

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**2,650,213**

**PRODUCTION OF POLYETHYLENE TEREPHTHALATE**

**Charles H. Hofrichter, Jr., Madison, Conn., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application July 24, 1951, Serial No. 238,379**

**8 Claims. (Cl. 260—75)**

1. In the process for producing filament- and film-forming polyethylene terephthalate wherein ethylene glycol is reacted under ester interchange conditions with an ester of terephthalic acid and a saturated aliphatic monohydric alcohol containing from 1 to 4 carbon atoms, and the resulting glycol terephthalate is polymerized, the improvement which comprises carrying out the polymerization reaction in the presence of a catalyst system consisting of from 0.005 to 0.1% by weight of litharge, from 0.01 to 0.15% by weight of antimony trioxide, and from 0.01 to 0.5% by weight of triphenyl phosphite, based on the weight of said ester of terephthalic acid.

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**2,650,214**

**POLYMERS**

**Robert N. MacDonald, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware**

**No Drawing. Application July 29, 1950, Serial No. 176,777**

**2 Claims. (Cl. 260—77.5)**

1. DL-methionine-N-carboanhydride.

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**2,650,215**

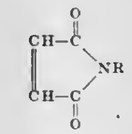
**POLYMER AND METHOD OF PREPARING SAME**

**Franklin Strain, Barberton, Ohio, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware**

**No Drawing. Application January 13, 1951, Serial No. 205,961**

**11 Claims. (Cl. 260—77.5)**

1. A copolymer of (*a*) a polymerizable ester of a polybasic acid which is free from aliphatic unsaturation and an unsaturated monohydric alcohol which contains 3 to 10 carbon atoms and an aliphatic polymerizable unsaturated carbon to carbon linkage between the beta and gamma carbon atoms and (*b*) a maleimide which has the general structure



where R is hydrogen or an organic radical linked to the nitrogen through carbon; the concentration of the maleimide being not less than 5 percent of the weight of the ester and up to 75 percent of the total polymerizable components.

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**2,650,216**

**CRYSTALLINE NAPHTHALENE SULFONATE SALTS OF STREPTOMYCIN AND DIHYDROSTREPTOMYCIN**

**Rudolph A. Carboni, Yonkers, N. Y., and Peter P. Regna, West New York, N. J., assignors to Chas. Pfizer & Co., Inc., a corporation of Delaware**

**No Drawing. Application March 29, 1949, Serial No. 84,264**

**6 Claims. (Cl. 260—210)**

4. A process which comprises neutralizing with naphthalene β-sulfonic acid an alkaline water solution of a water-soluble salt of an antibiotic substance selected from the group consisting of streptomycin and dihydrostreptomycin, cooling the resulting solution until crystallization of the naphthalene β-sulfonic acid salt of the antibiotic substance occurs and recovering the crystalline salt.

6. Salts of naphthalene β-sulfonic acid and an antibiotic substance selected from the group consisting of streptomycin and dihydrostreptomycin.

2,650,217

## PRODUCTION OF QUININE-PENICILLIN

**Thomas J. Macek, Irvington, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**

**No Drawing. Application August 24, 1950, Serial No. 181,313**
**2 Claims. (Cl. 260—239.1)**

1. The process of producing quinine penicillin of lowered bulk which comprises slurrying crystalline quinine penicillin with diethyl ether.

2,650,218

## ESTERS OF PENICILLIN FROM ACTIVE HALOGEN COMPOUNDS

**Harold F. McDuffie, Jr., Oak Ridge, Tenn., and Douglas E. Cooper, Syracuse, N. Y., assignors to Bristol Laboratories Inc., Onondaga County, N. Y., a corporation of New York**

**No Drawing. Application April 11, 1952, Serial No. 281,894**
**3 Claims. (Cl. 260—239.1)**

1. A new class of compounds of the general formula

Pen COO—$CH_2$—CO—R

where R is a member selected from the group consisting of amino, (lower) alkylamino, di-(lower) alkylamino, and (lower) alkoxy and where Pen COO represents a penicillin with the hydrogen atom removed from the carboxyl group.

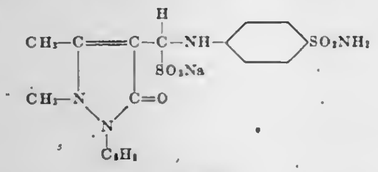
2,650,219

## REACTION PRODUCT OF ANTIPYRINE ALDEHYDE, p-AMINOBENZENE SULFONAMIDE, AND SODIUM BISULFITE

**Jules Henri Theophile Ledrut, Brussels, Belgium, assignor to Luxema S. A., Ixelles, Belgium, a company of Luxemburg**

**Application September 18, 1950, Serial No. 185,462**
**In the Netherlands September 20, 1949**
**1 Claim. (Cl. 260—239.9)**

A new compound having the following formula:



2,650,220

## TRIAZINE DERIVATIVE

**John J. Roemer, Stamford, and Donald W. Kaiser, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application June 18, 1952, Serial No. 294,256**
**2 Claims. (Cl. 260—249.8)**

1. 2-thiocyano-4,6-diamino-s-triazine.

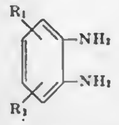
2,650,221

## PROCESS OF PREPARING 2-AMINO-QUINOXALINE COMPOUNDS

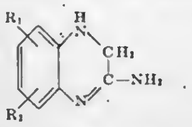
**Karl Pfister III, Scotch Plains, and John Weijlard, Westfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**

**No Drawing. Application October 23, 1948, Serial No. 56,256**
**14 Claims. (Cl. 260—250)**

1. The process of preparing 2-amino-quinoxaline compounds which comprises reacting an a-substituted acetonitrile compound, selected from the group which consists of glycolonitrile, haloacetonitriles and the product of the reaction between formaldehyde and hydrogen cyanide, with a 1,2-diaminobenzene compound having the formula:



wherein $R_1$ and $R_2$ are nuclear substituents selected from the class which consists of hydrogen, halo, alkyl and alkoxy radicals, thereby producing the corresponding N-(o-aminophenyl)-glycine nitrile compound, treating this compound with a methanolic solution of a strong base to form the corresponding 2-amino-3, 4-dihydroquinoxaline compound of the formula:



wherein $R_1$ and $R_2$ have the significance above defined, and reacting said 2-amino-3,4-dihydroquinoxaline compound with an oxidizing agent selected from the group consisting of alkaline potassium ferricyanide, hydrogen peroxide, ferric chloride, air, and oxygen.

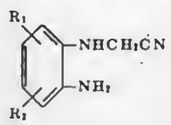
2,650,222

## 2-AMINO-3,4-DIHYDROQUINOXALINE COMPOUNDS AND PROCESS FOR THEIR PREPARATION

**Karl Pfister III, Westfield, and John Weijlard, Maplewood, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey**

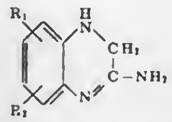
**No Drawing. Original application October 23, 1948, Serial No. 56,256. Divided and this application April 19, 1952, Serial No. 283,251**
**15 Claims. (Cl. 260—250)**

1. The process of preparing 2-amino-3,4-dihydroquinoxaline compounds which comprises reacting a methanolic solution of a strong base with the corresponding N-(o-aminophenyl)-glycine nitrile compound having the formula:



wherein $R_1$ and $R_2$ are nuclear substituents selected from the class which consists of hydrogen, halo, alkyl and alkoxy radicals.

10. 2 - amino - 3,4 - dihydroquinoxaline compounds of the formula:



wherein $R_1$ and $R_2$ are nuclear substituents of the class which consists of hydrogen, halo, alkyl and alkoxy radicals.



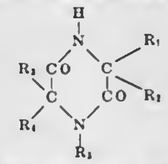
2,650,223

## 2,5-DIKETOPIPERAZINES

**Harold E. Zaugg, Howard Glenn, and Morris Freifelder, Waukegan, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois**

**No Drawing. Application August 8, 1950, Serial No. 178,362**
**12 Claims. (Cl. 260—268)**

1. A compound of the formula:



wherein $R_1$ is selected from the class consisting of hydrogen, lower alkyl, and lower alkylcarbalkoxy; $R_2$ is selected from the class consisting of lower carbalkoxy, lower carbamyl and substituted carbamyl; $R_3$ is selected from the class consisting of hydrogen, lower alkyl, monocyclic aralkyl, lower alkylcarbalkoxy; $R_4$ and $R_5$ are selected from the class consisting of hydrogen and lower alkyl.

2,650,224

## SALTS OF 7-IODO-8-HYDROXY-QUINOLINE-5-SULFONIC AND 7-HALOQUINOLINES CARRYING A DIALKYLAMINO-ALKYLAMINO SUBSTITUENT IN THE 4-POSITION

**Karl Koenig, Leverkusen-Bayerwerk, and Hans Andersag, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y.**

**No Drawing. Application July 21, 1951, Serial No. 238,022. In Germany July 22, 1950**
**6 Claims. (Cl. 260—286)**

1. As a novel chemotherapeutical agent, the substantially neutral salt resulting from the combination of essentially two molal proportions of 7-iodo-8-hydroxy-quinoline-5-sulfonic acid with one molal proportion of a strongly basic compound chosen from the group consisting of 7 - chloro - 4 - diethylamino - iso - pentylamino - quinoline, 7 - iodo - 3 - methyl - 4 - diethylamino - iso - pentylamino - quinoline, 7 - chloro - 4 - (4' - hydroxy - 3' - diethylaminomethyl - phenyl) - amino - quinoline, 7 - chloro - 3 - methyl - 4 - diethylamino - iso - pentylamino - quinoline and 7 - chloro - 3 - methyl - 4 - diethylamino - n - propylamino - quinoline.

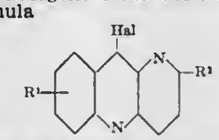
2,650,225

## MANUFACTURE OF MESO-HALOGENO-AZA-ACRIDINES

**Alan August Goldberg, Hampstead, London, and Donald Maurice Besly, Wells, England, assignors to Ward Blenkinsop & Company Limited, London, England, a British company**

**No Drawing. Application May 14, 1951, Serial No. 226,274. In Great Britain May 17, 1950**
**16 Claims. (Cl. 260—288)**

1. A meso halogeno-1-aza-acridine having the general formula



in which $R^1$ is selected from the group consisting of hydrogen, halogen, lower alkoxy and nitro and $R^2$ is selected from the group consisting of lower alkoxy and aryloxy groups and Hal is a halogen atom.

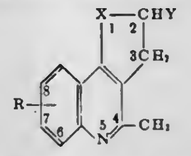
2,650,226

## FURO AND THIENO QUINALDINES AND PROCESS FOR MAKING SAME

**Hans Andersag and Helmut Timmler, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application May 22, 1951, Serial No. 227,741. In Germany May 24, 1950**
**11 Claims. (Cl. 260—288)**

1. As a new composition of matter a chemical substance represented by the formula



wherein X is a divalent atom selected from the group consisting of oxygen and sulfur, Y is a member of the group consisting of hydrogen and methyl, and R is a member of the group consisting of hydrogen and a substituent at not more than two of the positions 6, 7, 8 and 9 selected from the group consisting of lower alkyl, lower alkoxy, lower alkanoylamino, lower carboalkoxy, chloro, cyano and amino groups.

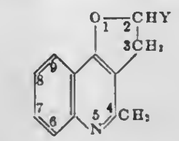
2,650,227

## DERIVATIVES OF 2:3-DIHYDRO-4-METHYL-FURO(3:2-c) QUINOLINE AND PREPARATION THEREOF

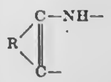
**Helmut Timmler, Hans Andersag, and Stephan Breitner, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,761. In Germany May 27, 1950**
**21 Claims. (Cl. 260—288)**

1. As a novel composition of matter, a chemical compound represented by the formula:



wherein Y is a substituent of the group consisting of hydrogen and methyl, having a bridging group across one pair of adjacent positions of the bz-nucleus of the fragmentary formula:



wherein R is a hydrocarbon chain comprising at most four carbon atoms that constitutes, with the doubly linked carbon atoms of the above fragmentary formula, a homocyclic hydrocarbon group.

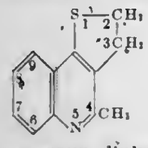
### 2,650,228
### DERIVATIVES OF 2:3-DIHYDRO-4-METHYLTHIENO(3:2-c) QUINOLINE AND PREPARATION THEREOF

**Helmut Timmler, Hans Andersag, and Stephan Breitner, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,762. In Germany May 27, 1950**

**7 Claims. (Cl. 260—288)**

1. As new compositions of matter, chemical compounds represented by the formula:



having a bridging group, linked to one pair of adjacent positions of the bz nucleus, which comprises a secondary amino group in a chain with two doubly linked carbon atoms having the formula



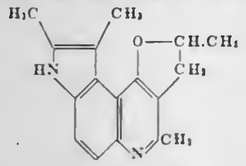
### 2,650,229
### DERIVATIVES OF 2:3-DIHYDRO-4-METHYLFURO(3:2-c) QUINOLINE AND PREPARATION THEREOF

**Helmut Timmler, Hans Andersag, and Stephan Breitner, Wuppertal-Elberfeld, Germany, assignors to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware**

**No Drawing. Application May 28, 1951, Serial No. 228,765. In Germany May 27, 1950**

**3 Claims. (Cl. 260—288)**

1. As a novel composition of matter, a chemical compound represented by the formula:



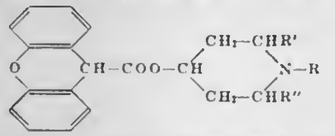
### 2,650,230
### XANTHENE-9-CARBOXYLIC ACID ESTERS OF NUCLEARLY ALKYLATED 4-PIPERIDINOLS AND SALTS THEREOF

**John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois**

**No Drawing. Application January 23, 1951, Serial No. 207,431**

**13 Claims. (Cl. 260—294.3)**

1. The group of new compounds consisting of the xanthene-9-carboxylates of alkylated 4-piperidinols of the structural formula



wherein R, R', and R'' are members of the class comprising hydrogen, lower alkyl and aralkyl radicals, and salts thereof.

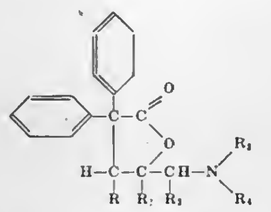
### 2,650,231
### AMINOVALEROLACTONES AND METHOD FOR THEIR PRODUCTION

**Richard T. Arnold, Minneapolis, Minn., and Glenn E. Ullyot, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania**

**Application November 19, 1949, Serial No. 128,406**

**7 Claims. (Cl. 260—294.7)**

1. A compound of the class consisting of a free base and its acid addition salts, the free base having the formula:



in which R, $R_1$, and $R_2$ are selected from the group consisting of hydrogen and methyl radicals, not more than one of said radicals being methyl; $R_3$ and $R_4$ are selected from the group consisting of hydrogen, alkyl having not in excess of 8 carbon atoms, monohydroxyalkyl having not in excess of 8 carbon atoms, monohaloalkyl having not in excess of 8 carbon atoms, benzyl, and when taken together, form with the nitrogen to which they are attached a member selected from the group consisting of piperidino and morpholino.

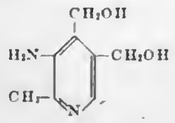
### 2,650,232
### 2-METHYL-3-AMINO-4,5-DI-HYDROXYMETHYLPYRIDINE AND ITS SALTS AND THE PREPARATION THEREOF

**Reuben G. Jones, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana**

**No Drawing. Application October 21, 1950, Serial No. 191,510**

**6 Claims. (Cl. 260—296)**

1. A member of the group consisting of a base and its acid addition salts, said base being represented by the following formula



### 2,650,233
### HALOALKOXY DERIVATIVES OF THE CYCLIC KETALS OF WARFARIN

**Martin Seidman, Chicago, Ill., and Karl Paul Link, Middleton, Wis., assignors to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin**

**No Drawing. Application March 1, 1951, Serial No. 213,486**

**5 Claims. (Cl. 260—343.2)**

1. The product, 2-methyl-2-(haloalkoxy)-4-phenyl-5-oxodihydropyrano (3,2-c)(1) benzopyran.



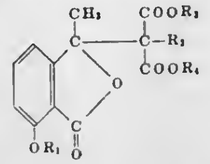
### 2,650,234
### PHTHALIDE COMPOUNDS AND METHODS FOR THEIR PREPARATION

**James H. Boothe, Montvale, N. J., and Samuel Kushner, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application June 5, 1952, Serial No. 291,989**

**12 Claims. (Cl. 260—343.3)**

1. Compounds selected from the group consisting of carboxylic acid esters represented by the formula:



in which $R_1$ represents a lower alkyl radical; $R_2$ represents a member selected from the group consisting of hydrogen, lower alkyl radicals, lower alkoxy radicals and lower alkyl radicals having a carboxyl ester substituent; and $R_3$ and $R_4$ represent esterifying radicals.

### 2,650,235
### NEW PHTHALIDE COMPOUNDS AND THEIR PREPARATION

**James H. Boothe, Montvale, N. J., and Joseph P. Petisi, Tappan, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine**

**No Drawing. Application June 5, 1952, Serial No. 291,990**

**8 Claims. (Cl. 260—343.3)**

1. Compounds selected from the group consisting of the 3-[7-(lower alkoxy)-3-methylphthalidyl]succinic acids, and the simple esters, salts and cyclic anhydrides of said acids.

### 2,650,236
### PREPARATION OF FURANS

**Francis E. Condon, Borger, Tex., and Edward E. Burgoyne, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware**

**No Drawing. Application April 17, 1951, Serial No. 221,528**

**16 Claims. (Cl. 260—346.1)**

1. A process for preparing a furan which process comprises contacting, at a temperature in the range 250° to 500° C., an acetylenic diol containing from 4 to 10 carbon atoms per molecule with a catalyst consisting essentially of cobalt molybdate supported on porous alumina, the two hydroxyl groups of said diol being three carbon atoms remote from each other and the triple bond being intermediate the two hydroxyl-substituted carbons, and recovering said furan as the chief product of the process.

### 2,650,237
### PREPARATION OF HEXURONIC ACIDS AND DERIVATIVES THEREOF

**Dean H. Couch, China Lake, Calif., and Elonza A. Cleveland, Milan, Italy, assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey**

**No Drawing. Application December 17, 1949, Serial No. 133,691**

**22 Claims. (Cl. 260—347.3)**

1. The method of preparing derivatives of uronic acids which comprises subjecting a glycoside to oxidation with nitric acid in the presence of a catalyst from the group consisting of nitrous acid, salts of nitrous acid, and nitrogen trioxide gas, at a temperature within the range of 20° C. to 100° C. for a sufficient time to oxidize a substantial proportion of the primary alcohol group of said glycoside; the concentration of said nitric acid being within the range of 65 percent to 100 percent; the ratio of said nitric acid to said glycoside being at least one mole of said acid for each mole of glycoside.

### 2,650,238
### PREPARATION OF AROMATIC MERCURY HALIDES

**Otto Daněk and Jaroslav Nosek, Pardubice-Rybitvi, Czechoslovakia, assignors to Vychodoceske Chemicke Zavody, narodni podnik, Pardubice, Czechoslovakia**

**No Drawing. Application March 9, 1951, Serial No. 214,851. In Czechoslovakia February 19, 1947**

**17 Claims. (Cl. 260—433)**

1. A commercial method of manufacturing an aromatic mercury halide which comprises diazotizing an aryl amine in the presence of a mercury halide in an acidic aqueous medium at a temperature of about 0–5° C., whereby the diazonium double salt containing a mercury halide is formed, decomposing said double salt at a temperature of about 5–10° C. by adding one equivalent of metallic copper to the reaction mixture whereby the water insoluble aryl mercury halide and water-soluble cupric halide are formed in accordance with the following reaction:

$$RN_2Y.HgY_2+Cu \rightarrow RHgY+CuY_2+N_2$$

wherein R represents an aryl radical and Y represents a halide, and recovering a substantially pure aryl mercury halide.

### 2,650,239
### PREPARATION OF CHROMIC SALTS

**William A. Stover, Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York**

**Application April 18, 1952, Serial No. 282,978**

**7 Claims. (Cl. 260—438)**

1. A process for preparing the chromic salt of a low molecular weight fatty acid, which comprises reducing $Cr^{+6}$ to $Cr^{+3}$, in a reaction mixture containing not more than about 10 per cent by weight of water, with glycolic acid in the presence of a monobasic fatty acid having not more than 6 carbon atoms.

### 2,650,240
### TRICHLORO METHYL THIOCYANATE AND PROCESS FOR PREPARING SAME

**John F. Olin, Grosse Ile, Mich., assignor to Sharples Chemicals Inc., a corporation of Delaware**

**No Drawing. Application April 5, 1950, Serial No. 154,200**

**11 Claims. (Cl. 260—454)**

1. Trichloromethyl thiocyanate.

11. A process for the manufacture of trichloromethyl thiocyanate, which comprises mixing acetic acid, an alkali metal cyanide, and trichloromethanesulfenyl chloride, and agitating said mixture until trichloromethyl thiocyanate is produced.

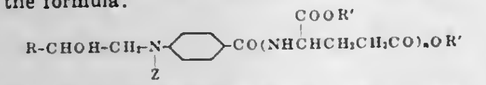
2,650,241

## FOLIC ACID INTERMEDIATE PREPARATION

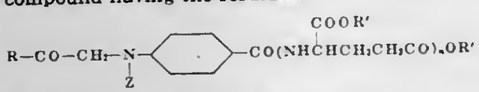
David I. Weisblat and Ethel I. Fairburn, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 19, 1950, Serial No. 180,507
10 Claims. (Cl. 260—470)

1. The method which includes: mixing a solution of a metal dichromate in an aqueous acid with a solution of an hydroxy compound having the formula:



wherein R' is selected from the class consisting of hydrogen and the lower alkyl radicals, *n* is selected from the class consisting of zero and the positive integers 1 to 3, inclusive, Z is selected from the class consisting of hydrogen and the arylsulfonyl radicals and R is selected from the class consisting of the alkyl, alkoxymethyl, aralkoxymethyl, aralkyoxymethyl, dialkoxymethyl and acyloxy methyl radicals in a substantially water-immiscible organic liquid which is non-reactive under the reaction conditions; and separating from the reaction mixture a keto compound having the formula:



R', n, Z and R having the values given.

2,650,242

## SEPARATION OF TYROSINE AND CYSTINE

Earl V. Cardinal, Berwyn, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 28, 1951, Serial No. 244,089
9 Claims. (Cl. 260—519)

1. The process of separating cystine and tyrosine which comprises treating an aqueous suspension containing cystine and tyrosine with a sulfide from the group consisting of sodium sulfide, potassium sulfide, and ammonium sulfide to reduce the cystine to cysteine and lowering the pH to a range where tyrosine is substantially insoluble and cysteine is soluble and separating the tyrosine.

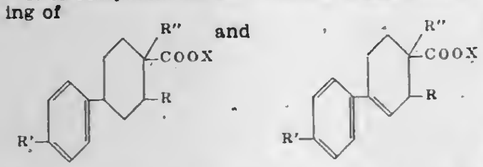
2,650,243

## OXY-PHENYL CYCLOHEXANE- AND CYCLOHEXENE-CARBOXYLIC ACIDS, AND DERIVATIVES

Frederick C. Novello, Prospect Park, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey

Application May 10, 1951, Serial No. 225,484
6 Claims. (Cl. 260—520)

1. A compound chosen from the class consisting of



and



in which R and R'' are lower alkyl, R' is chosen from the class consisting of hydroxy, methoxy, benzoxy and lower acyloxy; and X is chosen from the group consisting of hydrogen and lower alkyl.

2,650,244

## PROCESS FOR PRODUCTION OF ACETIC ACID

Jacob L. Stein, Philadelphia, Pa., assignor to Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application January 24, 1951, Serial No. 207,593
5 Claims. (Cl. 260—531)

1. A process for the production of acetic acid which comprises dehydrogenating ethyl alcohol under dehydrogenating conditions thereby forming a mixture containing acetaldehyde, ethyl acetate and unreacted alcohol, separating the acetaldehyde from said mixture, passing the residue from said aldehyde separation to a distillation zone having therein a plurality of fractionating zones, fractionally distilling said residue in said distillation zone under reflux conditions, withdrawing an alcohol head fraction from the top fractionating zone which is rich in ethyl acetate as compared to the ethyl acetate content of said residue, withdrawing an alcohol fraction which is substantially free of ethyl acetate from a fractionating zone below the top fractionating zone in said distillation zone, recycling said last mentioned alcohol fraction to the dehydrogenating step, passing said acetaldehyde and said alcohol head-fraction to an oxidation zone, oxidizing the resulting mixture of acetaldehyde and alcohol therein under oxidizing conditions to acetic acid, passing the products of said oxidation to an acid recovery zone and recovering the acetic acid therein.

2,650,245

## SYNTHESIS OF ACETIC ACID FROM CO AND METHANOL

Edward Boaden Thomas and Edmund Harry Alcock, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application March 23, 1950, Serial No. 151,528. In Great Britain April 8, 1949
5 Claims. (Cl. 260—532)

1. Process for the production of free acetic acid by reaction between methanol and carbon monoxide under high superatmospheric pressure, which comprises heating together methanol, carbon monoxide and hydrogen and a preformed mixture of hydrated and unhydrated nickel iodide, at least one mole of hydrogen being present for each mole of carbon monoxide, and repressing methane formation by maintaining the temperature in the reaction zone below 200° C.

2,650,246

## PRODUCTION OF ACETIC ACID FROM METHANOL

Edward Boaden Thomas and Edmund Harry Alcock, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

No Drawing. Application October 4, 1950, Serial No. 188,481. In Great Britain November 4, 1949
8 Claims. (Cl. 260—532)

1. A continuous process for the production of acetic acid, which comprises introducing carbon monoxide and methanol into a reaction zone in which they react under a pressure of less than 50 atmospheres and at a temperature below 250° C. and which is sufficiently elevated to prevent condensation of acetic acid produced, the reaction being carried out under the joint catalytic influence of nickel and iodine in a reaction zone containing active carbon impregnated with nickel iodide, and withdrawing the products of the reaction, iodine lost from the active carbon being replaced by a suitable supply during the process.



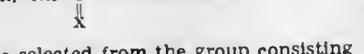
2,650,247

## N-ALLYL-AND N-BUTENYL-HYDANTOIC ACID

Alfred Halpern, Brooklyn, N. Y., assignor to E. Fougera & Co., Inc., New York, N. Y., a corporation of New York

No Drawing. Original application November 30, 1949, Serial No. 130,363, now Patent No. 2,592,418, dated April 8, 1952. Divided and this application December 28, 1951, Serial No. 264,006
2 Claims. (Cl. 260—534)

1. A new compound of the general formula



wherein $R_2$ is selected from the group consisting of allyl and butenyl radicals, X is selected from the group consisting of O and NH, and Me is selected from the group consisting of H and atoms of alkali metals with an atomic weight below 56.

2,650,248

## CONCENTRATION OF AQUEOUS ACONITIC ACID SOLUTIONS

Donald W. Collier, Philadelphia, Pa., assignor to The Sharples Corporation, a corporation of Delaware

Application March 15, 1950, Serial No. 149,864
6 Claims. (Cl. 260—537)

1. A process for purifying and concentrating aconitic acid which comprises intimately contacting an aqueous solution of aconitic acid containing impurities with isophorone with the formation of the two phases, separating said phases, intimately contacting the separated aqueous phase with a non-polar organic solvent with the formation of two phases, said non-polar organic solvent being miscible with isophorone but substantially completely immiscible with water, separating said last-mentioned phases, intimately contacting the separated isophorone phase with the separated non-polar organic solvent phase with the formation of two phases, separating said last-mentioned phases, one of said last-mentioned phases being a mixture of isophorone and non-polar organic solvent having aconitic acid dissolved therein, intimately contacting said last-mentioned phase with water with the formation of two phases, and separating said last-mentioned phases to obtain an aqueous solution containing aconitic acid in greater concentration and purity than in said original aqueous solution.

2,650,249

## PROCESS FOR TREATING METHYL ACETATE

Maurice Mention and Jules Mercier, Melle, France, assignors to Les Usines de Melle (Societe Anonyme), Saint-Leger-les-Melle, France, a corporation of France

Application April 10, 1951, Serial No. 220,291
In France April 27, 1950
4 Claims. (Cl. 260—541)

1. A process which comprises partially hydrolyzing under pressure methyl acetate in the presence of a strong mineral acid, at a temperature approximating, but below, the boiling point of the mixture at the pressure employed, to produce a mixture of methyl acetate, acetic acid, methyl alcohol and aqueous mineral acid, subjecting the last-named mixture as such to distillation and refluxing, to separate an aqueous mixture of methyl acetate and methyl alcohol from the other ingredients, subjecting said aqueous mixture to extractive distillation in a distilling column with water fed to the top section of the column to scrub the vapors and separate methyl alcohol from methyl acetate, distilling methyl alcohol to separate it from water, extracting the aqueous acetic acid with a solvent serving as a water-entrainer and comprising methyl acetate, distilling the acetic acid so extracted to concentrate and dehydrate same, and recycling the aqueous mineral acid to the hydrolyzing step.

2,650,250

## N-METHYLOL-p-VINYL BENZAMIDE

John Noel Milne, Epsom Downs, Donald Faulkner, Epsom, and Charles Edward Hollis, Ewell, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Original application August 1, 1950, Serial No. 177,136. Divided and this application September 13, 1951, Serial No. 247,567. In Great Britain August 25, 1949
1 Claim. (Cl. 260—558)

The substance N-methylol-p-vinyl benzamide.

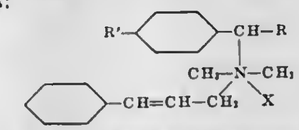
2,650,251

## BACTERICIDAL COMPOUNDS

James M. Sprague, Drexel Hill, Pa., assignor to Merck & Co., Inc., a corporation of New Jersey

No Drawing. Application February 28, 1951, Serial No. 213,301
5 Claims. (Cl. 260—567.6)

1. Quaternary ammonium compounds of the formula:



in which R and R' are alkyl radicals of approximately equal chain length, the total number of carbon atoms contained in R and R' being from 11 to 15 inclusive, and X is chosen from the group consisting of chloride, iodide and bromide.

2,650,252

## PREPARATION OF KETONE-DIARYLAMINE CONDENSATES

Ivan Mankowich, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 3, 1951, Serial No. 235,102
9 Claims. (Cl. 260—576)

1. In a method of preparing a composite product of condensation of an aliphatic ketone and a diarylamine, the improvement which consists in adding to the reaction mix, a chemical promoter which is a halogenated hydrocarbon selected from the class consisting of haloalkanes, haloalkenes, halocycloalkanes, haloalkyl benzenes, having in each case a halogen atom directly linked to a saturated carbon atom, the halogen of which has a molecular weight of at least 35, and heating the mix in the presence of said promoter.

2,650,253

### PRODUCTION OF HIGHER KETONES

Frederick F. Rust, Orinda, and William E. Vaughan, Berkeley, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application April 27, 1951, Serial No. 223,458
7 Claims. (Cl. 260—597)

1. Process of preparing a dialkyl ketone from an olefin and an aldehyde, said ketone containing carbon atoms equal in number to the sum of the number of carbon atoms in one molecule of each of said reactants, which process comprises heating together, in the presence of a free radical reaction initiator of the class consisting of positive halogen compounds and peroxidic compounds, an alpha-monoolefin hydrocarbon of the formula $R-CH=CH_2$, wherein R is an alkyl group having not less than four carbon atoms, and an alkanal containing not less than two carbon atoms, said reactants being present in the reaction theatre in the proportion of from about 20 moles of olefin per mole of alkanal to about 1 mole of olefin per 20 moles of alkanal, and isolating said dialkyl ketone.

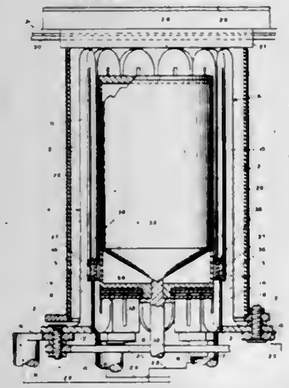
## ELECTRICAL

2,650,254

### SIDE HEATER

Harry C. Kremers, Mentor, Ohio, assignor to The Harshaw Chemical Company, Cleveland, Ohio, a corporation of Ohio

Application October 6, 1951, Serial No. 250,065
7 Claims. (Cl. 13—22)



1. In an electric furnace of the character described a heating grid comprising vertically extending substantially parallel ribbons of carbon resistor material, each vertically extending ribbon of said grid being connected to and integral with another vertically extending ribbon at the top, and means for mechanically supporting and supplying current to a plurality of ribbons of said grid adjacent the bottom thereof, the inner and outer surfaces of said heating grid conforming substantially to cylindrical shape, the inner such surface having a major upper portion of one diameter and a minor lower portion of a smaller diameter, upper and lower portions of said ribbons forming said cylindrical inner surfaces defining at their junction shoulders all at one horizontal level and an annular heat reflecting baffle supported by said shoulders.

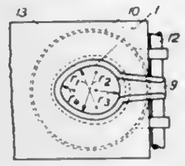
2,650,255

### TILTING ELECTRICAL MELTING FURNACE OF EGG SHAPED CROSS SECTION

Lennart K. G. Hogël and Ludwig Dreyfus, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden

Continuation of application Serial No. 51,496, September 28, 1948. This application October 27, 1950, Serial No. 192,441. In Sweden October 31, 1947
4 Claims. (Cl. 13—27)

1. An electric induction melting furnace comprising a melting chamber with an internal lining of refractory material, wherein at least the upper part of said chamber has an internal horizontal cross-section of egg shape with side walls of maximum radius of curvature, with one end of minimum radius of curvature and the opposite end of intermediate radius of curvature, an electric heating coil surrounding said chamber, and a



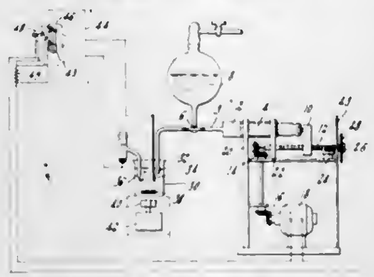
tapping mouth located at the top of the chamber end with said intermediate radius of curvature, and the tilting axis of said chamber being so located that, when the furnace is tilted for pouring, the end having the minimum radius of curvature is raised with respect to the end having the intermediate radius of curvature and by its relatively narrow construction resists any tendency of the refractory material to collapse.

2,650,256

### AUTOMATIC ELECTROMETRIC TITRATION APPARATUS

James J. Lingane, Cambridge, Mass., assignor of one-third to Kenneth W. Brown, Cambridge, Mass.

Application December 14, 1948, Serial No. 65,273
8 Claims. (Cl. 23—253)



1. An automatic electrometric titrator comprising a titration vessel, a titrant reservoir, means for expelling titrant therefrom, a titrant conduit from the reservoir to the titration vessel, a reference electrode and an indicator electrode in said vessel for producing a potential varying with the extent of titration, a potential responsive device electrically connected to said electrodes, a flow controller, control means including said potential responsive device for controlling said flow controller to vary the rate at which said titrant is expelled and to stop the expulsion of titrant in response to the detection by said potential responsive device of a predetermined potential coresponding with an equivalence point, supports, at least one of which is relatively adjustable with respect to the other, respectively supporting the outflow tip of said conduit and said indicator electrode in relative positions such that the indicator electrode is downstream of and at a distance no greater than about 3 centimeters from the outflow tip and in the zone of a more advanced stage of titration than that existing throughout the liquid in the titration vessel, the extent of the advance of titration in said zone being variable with the spacing between said tip and said indicator electrode, said control means in response to the potential derived from said zone of advanced titration decreasing the rate at which titrant is expelled prior to attainment of chemical equilibrium through the liquid in said titration vessel in avoidance of over-titration, and means to record the quantity of titrant expelled in bringing all of the liquid in the titration vessel substantially to said exact equivalence point.



2,650,257

### LEAD-ACID ELECTRIC STORAGE BATTERY AND PROCESS OF PRODUCING SAME

Edward L. Jolley, Salt Lake City, Utah, assignor to Clarite Battery, Inc., a corporation of Utah

No Drawing. Application November 3, 1949, Serial No. 125,394
8 Claims. (Cl. 136—34)

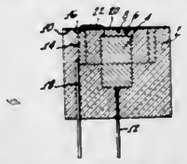
7. An electrolyte for lead-acid electric storage batteries, consisting of a mixture of commercial concentrated sulfuric acid and an aqueous leach solution derived from Bluegate shale and carrying a high sulfate radical content.

2,650,258

### SEMICONDUCTOR PHOTOSENSITIVE DEVICE

Jacques I. Pantchechnikoff, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 12, 1951, Serial No. 231,195
14 Claims. (Cl. 136—89)



1. An electrical device comprising a body of semi-conducting germanium including an exposed surface, an electrically insulating support member in which said body, except for said surface, is embedded, a light-transmitting film of metal upon said surface, and an electrode in contact with said film, said electrode comprising a coating layer of low-resistance material disposed on a portion of the surface of said film.

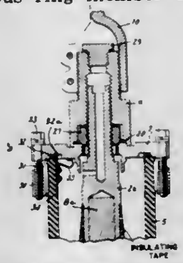
2,650,259

### HIGH-PRESSURE SEAL FOR CABLE END TERMINALS

Charles L. Marks, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application March 10, 1951, Serial No. 214,958
2 Claims. (Cl. 174—20)

1. In an electrical terminal apparatus for sealing the end of a fluid filled cable, including an insulating cylinder and a member adjacent said cylinder, a structure for sealing said cylinder to said adjacent member comprising an inner segmental ring member disposed around said cylinder having an inner surface provided with serrations for engagement with the outer surface of said cylinder and having an outer surface tapered to have an outer diameter decreasing in the direction away from said adjacent member; an outer continuous ring member concentric with



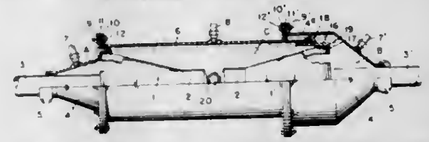
said inner ring member and having an inner surface tapered oppositely to the outer surface of said inner ring member for engagement with said outer surface; gasket material positioned between said cylinder and said adjacent member; and means for displacing said outer ring member toward said adjacent member to secure said inner ring against said cylinder for drawing together said cylinder and said adjacent member to compress said gasket material.

2,650,260

### STOP JOINT FOR OIL-FILLED CABLES

Enrico Sesini and Mario Pierazzuoli, Milan, Italy, assignors to Pirelli Societa per Azioni, Milan, Italy

Application November 1, 1949, Serial No. 124,913
In Italy November 27, 1948
6 Claims. (Cl. 174—22)



1. A stop joint for oil filled sheathed cables, comprising an elongated casing, and terminal caps at each end of said casing having apertures through which the cables may pass into said casing and adapted to be secured to the sheath of said cables, said casing having adjacent each end a radially extending peripheral flange, and said caps having parallel radially extending portions secured to said flanges by a series of bolts, one of said flanges being at one extreme end of said casing while the other flange is spaced longitudinally a substantial distance from the opposite end, and the cap at said last mentioned end having a portion surrounding and spaced from said casing.

2,650,261

### GAS-FILLED ELECTRIC CABLE WITH PAPER AND POLYSTYRENE INSULATION

Edward Leslie Davey, Hale, England, assignor to W. T. Glover & Company Limited, Manchester, England, a British company

Application September 27, 1950, Serial No. 187,040
In Great Britain October 13, 1949
2 Claims. (Cl. 174—25)

1. A super-tension cable comprising a conductor, a plurality of helical lappings of insulating

material on said conductor forming an intersticed laminated body of dielectric surrounding said conductor, a gas-impervious enclosure surrounding said body of dielectric, and under operating conditions gas under super-atmospheric pressure filling the interstices in said laminated body, said laminated body comprising an inner part built up of alternate single strip layers of



oriented polystyrene film and layers of pre-impregnated paper, and an outer part built up of layers of pre-impregnated paper, said inner part comprising at least fourteen layers and having a radial wall thickness of not less than 10% of the radius of the conductor surface and not more than 45% of the combined radial wall thickness of said inner and outer parts.

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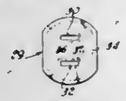
**2,650,262**

**ELECTRIC RECEPTACLE ACCESSORY FOR LOCATING PRONG RECEIVING APERTURES**

**Charles W. Abbott, Larchmont, N. Y., assignor to Abbott Developments, Inc., New Haven, Conn., a corporation of Connecticut**

**Application December 29, 1950, Serial No. 203,497**

**1 Claim. (Cl. 174—66)**



An accessory for attachment to an electrical receptacle having slotted openings to receive the connecting blades of plug caps for tapping from an electrical circuit which comprises, a piece of transparent material conforming in shape to a hub of said receptacle and having slots to register with the slotted openings respectively of said receptacle and accurately guide the respective blades of a plug cap into the said slotted openings in the receptacle, said piece of transparent material having lines of luminous paint visible in the dark defining the margin of its said slots, and having adhesive on its reverse face for securing said piece to a receptacle hub with its said slots in alignment with the said slotted openings of the hub.

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**2,650,263**

**BRACKET CONSTRUCTION**

**Alwin G. Steinmayer, Milwaukee, Wis., assignor to McGraw Electric Company, a corporation of Delaware**

**Application June 4, 1948, Serial No. 31,005**

**3 Claims. (Cl. 174—161)**

1. A bracket construction for line wires comprising a U-shaped supporting member arranged to be attached to a support and having a pair of outwardly projecting arms, a pintle pin pivotally mounted on one of said arms and normally detachably interlocked with the other of said arms, and a spool-like insulator having a bore therethrough and carried by said pin, one of said arms being arranged to revolubly support said insulator and having its largest transverse dimension less than said bore for selectively and revolvably positioning said insulator on said pin or said arm, and said pin being arranged to be rocked into alignment with said last mentioned arm to allow said insulator to be slipped from said arm onto said pin or from said pin onto said arm.



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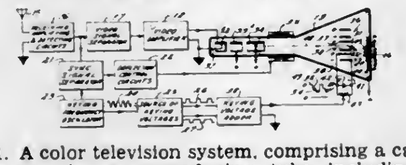
**2,650,264**

**COLOR TELEVISION REPRODUCING SYSTEM**

**Paul K. Weimer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware**

**Application December 22, 1949, Serial No. 134,453**

**32 Claims. (Cl. 178—5.4)**



1. A color television system, comprising a cathode ray image reproducing tube including a source of an electron beam and a fluorescent screen having a plurality of groups of areas respectively capable of emitting light of different colors when excited by said beam, means responsive to received video signals representative of differently colored light components of the image to be reproduced for modulating the intensity of said beam, means for deflecting said beam according to a predetermined pattern to scan said screen in complete image fields, a source of keying voltage having a frequency corresponding to the color-change frequency of said video signals, means associated with said tube for developing a beam-deflecting field for additionally deflecting said beam in an amount dependent upon the velocity of said beam, and means responsive to said keying voltage to vary the velocity of said beam concurrently with color changes of said video signals, whereby to selectively excite the differently colored light emitting areas of said screen in coincidence with the intensity modulation of said beam in accordance with the different image color components.

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**2,650,265**

**DUAL PURPOSE CARRIER WAVE RECEIVER**

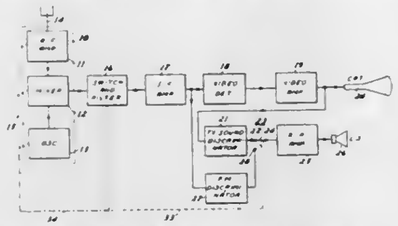
**Garrard Mountjoy, Canandaigua, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York**

**Application November 30, 1949, Serial No. 130,288**

**8 Claims. (Cl. 178—5.8)**

1. The combination with a superheterodyne receiver of the type adapted to receive a first class of relatively wide-band signals, said receiver comprising a tuner adapted to cover a range of frequencies including at least one spectrum of said first class of signals and a second spectrum comprised of a second class of relatively narrow-band signals, a relatively broad-band intermediate-frequency amplifier and a first discriminator responsive to said first class of signals, of means for





selectively rendering said receiver capable of reception of said second class of signals, said means comprising means for inserting a relatively narrow-band filter between said tuner and said amplifier, and means for substituting, simultaneously with said insertion of said filter, a second discriminator for said first discriminator, said second discriminator being responsive to said second class of signals.

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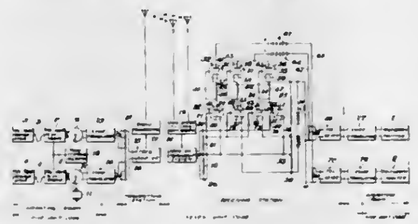
**2,650,266**

**DUAL CHANNEL TELEGRAPH SYSTEM**

**Samuel D. Browning, Baldwin, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware**

**Application July 3, 1948, Serial No. 36,841**

**7 Claims. (Cl. 178—61)**



2. A telegraph transmitter comprising means to set up signal voltages in two separate mark and space telegraph channels, means to synchronize the transitions between mark and space conditions in each of said channels, means to combine said voltages each of a respective different amplitude to set up four different control voltages representing respectively the four possible combinations of mark and space conditions in said two channels, means to generate a carrier frequency and means to apply said control voltages to said channel, means to shift the carrier frequency to any one of four distinct frequencies each representing one of said four combinations.

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**2,650,267**

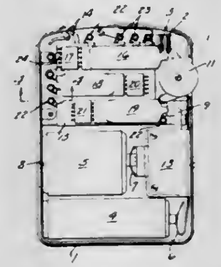
**HEARING AID CONSTRUCTION**

**Warren R. Walters, Minneapolis, Minn., assignor to The Maico Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota**

**Application August 26, 1949, Serial No. 112,527**

**3 Claims. (Cl. 179—107)**

1. In a hearing aid of the class described and including a pick-up microphone and an electronic audio amplifier, a casing, means mounting certain component elements of said amplifier on said casing, a mounting panel, means mounting the remaining cooperating components of said amplifier on said mounting panel, connections between cooperating elements on said casing and those mounted on said panel, interposed in each of said connections a friction type coupler, said couplers comprising a plurality of anchoring



posts mounted on said casing in spaced parallel relationship, and cooperating anchoring clips secured to said panel adjacent the marginal edge thereof, said clips having laterally-projecting hook-like portions encompassing said anchoring posts and axially slidable thereon, whereby to engage and disengage said clips from their cooperating posts by sliding movements of the panel.

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**2,650,268**

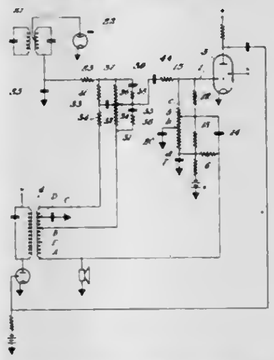
**CIRCUIT-ARRANGEMENT FOR TONE-CONTROL IN LOW-FREQUENCY AMPLIFIERS**

**Henricus Adrianus Broos, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**

**Application June 21, 1949, Serial No. 100,438**

**In the Netherlands June 25, 1948**

**3 Claims. (Cl. 179—171)**

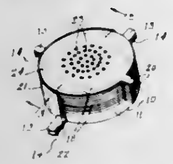


1. A circuit arrangement for amplifying an incoming signal voltage having frequency components within a given range, said arrangement comprising a physiological gain control network having a frequency response characteristic within said given range at which the intermediate frequency portion thereof is attenuated relative to the high and low-frequency portions thereof, first and second electronic amplifier stages each having an electron discharge tube provided with a cathode, a grid and an anode, and a grid input and an anode output circuit, the output circuit of said first stage being coupled to the input circuit of the second stage, means to supply said signal voltage through said network to the input circuit

of said first stage whereby an output voltage is produced across the output circuit of said second stage, and apparatus to vary the frequency response of said arrangement, said apparatus including first, second and third frequency selective circuit means coupled to the output circuit of said second stage to derive respectively from said output voltage a low-frequency negative feedback voltage, an intermediate frequency negative feedback voltage and a high-frequency negative feedback voltage, means to apply said intermediate frequency voltage to said network to vary the intermediate frequency attenuation thereof, a potentiometer provided with first, second, third and fourth contacts, said fourth contact being movable, one of said third and fourth contacts being connected to the grid of the first stage, the first contact being coupled to the cathode of said first stage, means to apply said low-frequency voltage to said first contact, means to apply said high-frequency voltage to the other of said third and fourth contacts and means having a low impedance value at intermediate and high-frequencies relative to its value at low-frequencies connecting said second contact to a point of ground potential whereby movement of said fourth contact along said potentiometer varies the frequency response of said circuit arrangement.

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**2,650,269**
**SANITARY PAD ATTACHMENT FOR TELEPHONES**
**Harry Webb, New York, N. Y.**
**Application February 21, 1951, Serial No. 212,100**
**6 Claims. (Cl. 179—185)**



1. A sanitary device for a telephone mouthpiece which comprises a base detachably securable on the mouthpiece and having therein a plurality of centrally grouped holes for sound transmission, a quantity of absorbent material located in said base and having a germicidal solution applied thereto, a pad mounted atop said base and including a plurality of sheets, a binding securing the several sheets together throughout a portion of their perimeters, a tab on each sheet for removing the latter, said tabs being disposed oppositely to the binding, a plurality of aligned centrally grouped holes in the sheets for the transmission of sound, and a score line in each sheet adjacent the said binding to facilitate the removal of the sheet, the score line in each sheet being spaced slightly further away from the binding than the next higher sheet.

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**2,650,270**
**CONTROL**
**George J. Mucher, Rochester, N. H., assignor to Clarostat Mfg. Co., Inc., Dover, N. H., a corporation of New York**
**Application September 26, 1950, Serial No. 186,865**
**9 Claims. (Cl. 200—4)**

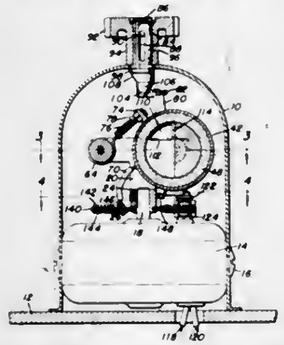
1. A control including in combination a mechanism to be electrically connected to apparatus to govern the functioning of the latter, a hub forming a part of said control, a unit axially shiftable with respect to said hub and coupled against rotation with respect to the latter, cooperating detent means connected to said hub and unit for retaining the latter in the position



to which it has been axially shifted and hub-retaining means forming a part of said detent means.

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**2,650,271**
**CIRCUIT INTERRUPTER**
**Bernhard Ulrich, Jr., and Philip Ulrich, Corpus Christi, Tex.**
**Application July 14, 1952, Serial No. 298,874**
**8 Claims. (Cl. 200—32)**

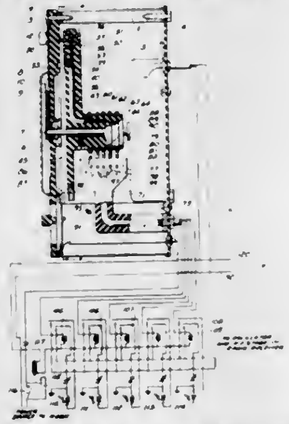


1. A periodic circuit interrupter comprising a casing, a frame mounted in said casing for rotation about a vertical axis in said casing, power means operatively connected in driving relation to said frame, a cylindrical chamber mounted on said frame, the axis of said chamber being transverse to the axis of said frame, said chamber being disposed laterally of the axis of said frame, two pools of conducting liquid in said chamber, an insulating partition between said pools, an aperture in the upper inner portion of said partition, the bottom of said aperture being above the at rest level of said pools, the side of said aperture being above the level of said pools when said frame is rotating and said side is substantially vertical, means for cyclically oscillating said chamber about its axis in unison with the rotation of said frame about its axis.

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**2,650,272**
**TIME CONTROLLED RADIO PROGRAM SELECTOR**
**Harold F. Gavigan, Malverne, N. Y.**
**Application September 9, 1947, Serial No. 772,975**
**9 Claims. (Cl. 200—37)**

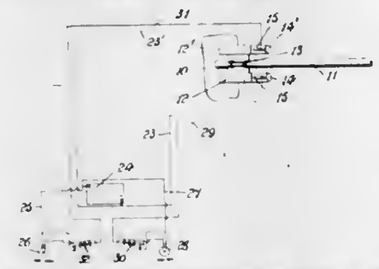
1. A program apparatus for a radio receiver comprising a clock, a shaft extending rotatably upward from said clock, a plate rotatably supporting the free end of said clock shaft, said plate having a series of slots cut therein, a contact ring, attached to said plate, a plurality of slide bars, each of said slide bars having a plurality of equally spaced depressions of arcuate contour formed therein mounted on said plate, said slide bars touching said contact ring, a contact button attached to a support slidably mounted on each of said slide bars, each of said contact buttons being manually slidable, along the corresponding slide bar, said support comprising a U-shaped member, each arm of said member having a projection formed therein, said projections selectively fitting into the corresponding depression in the slide bar, to positively locate the support relative to the slide bar, a contact plate attached to said clock shaft and rotating therewith, a plurality of



arcuate contacts attached to said contact plate, said arcuate contacts being adapted to slidably and directly engage one of said contact buttons during a portion of each revolution of said contact plate, a program actuating mechanism mounted within said receiver, a plurality of slip rings attached to said contact plate, the number of said slip rings being substantially equal to the number of said arcuate contacts, and a plurality of brushes slidably engaging said slip rings to transmit electrical impulses from said contact ring to said program actuating mechanism when said contact button engages said arcuate contact.

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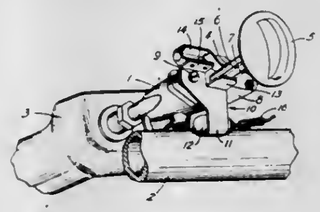
**2,650,273**
**DIRECTION INDICATOR SWITCH MECHANISM**
**James M. Osgian, Farmington, Mich.**
**Application May 12, 1951, Serial No. 225,939**
**1 Claim. (Cl. 200—61.27)**



For right and left turn signal indicators for motor vehicles, and in combination with the steering column of a motor vehicle, a pair of switch boxes respectively secured to the right and left sides of the steering column in proximity of the floor of the vehicle, a depressible pedal carried by each switch box and positioned for operation of the right or left foot of an operator rearwardly of the steering column with the steering column constituting a spaced guide for proper selection of the pedal to be depressed for the selective operation of the right and left turn signal indicators, and a source of electrical energy in communication with said switch boxes whereby depression of a selected pedal will operate the desired signal indicator.

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**2,650,274**
**MERCURY SWITCH MOUNTING**
**Leonard H. McCammant, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois**
**Application July 18, 1951, Serial No. 237,413**
**4 Claims. (Cl. 200—61.47)**



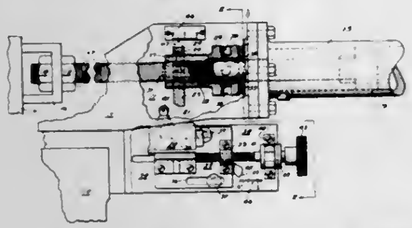
4. For use in a burner ignition system for gas stoves, the combination of a valve arranged to control the flow of gas to a burner, a rotary valve stem controlling the opening and closing of the valve, said valve stem projecting beyond one end of the valve and being provided thereat with a circular peripheral portion and a peripheral portion cut away to provide a flat surface spaced closer to the longitudinal axis of the stem than said circular peripheral portion, a bracket pivotally mounted on said one end of the valve about an axis extending parallel to the longitudinal axis of said stem in spaced relation therefrom, said bracket being provided with a first arm extending away from said one end of the valve above the pivotal axis of the bracket, an elongated leaf spring mounted on said first arm of the bracket engaging the upper side of the peripheral portion provided with the stem, said bracket being provided with a second arm extending away from said one end of the valve and positioned to engage the lower side of the peripheral portion provided with the stem, said spring acting between the peripheral portion provided with the stem and the bracket to bias the bracket to position said second arm in engagement with the lower side of the peripheral portion provided with the stem, said stem in the closed position of the valve positioning said flat peripheral portion at its lower side to engage said second arm on the bracket and said stem when turned to open the valve positioning said circular peripheral portion at its lower side to engage said second arm on the bracket, whereby the rotary position of the stem determines the angular position of the bracket about its pivotal axis, and a mercury switch carried by the bracket positioned to open a circuit through the switch when said flat peripheral portion provided with the stem engages said second arm on the bracket, said mercury switch being positioned to close a circuit through the switch when said circular peripheral portion provided with the stem engages said second arm on the bracket.

2,650,275

## UPSET CYLINDER STROKE ADJUSTING NUT WITH SELF-COMPENSATING CAM

Kingsley A. Doutt, Detroit, Mich.

Application April 24, 1951, Serial No. 222,623
7 Claims. (Cl. 200—82)



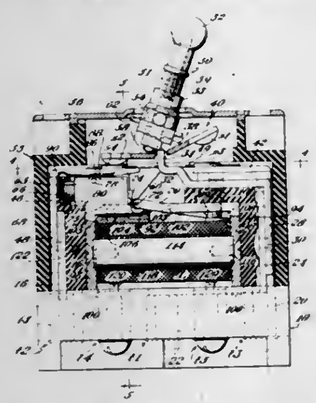
1. In a switch operating device, a threaded shaft, means for imparting reciprocating movement to said shaft, an adjusting nut threadably engaged on said shaft for movement along the shaft to adjusted positions thereon, a cam threadedly engaged on said adjusting nut, and guide means engageable with said cam and holding said cam against rotating movement with said nut, the threads on said shaft, adjusting nut and cam having an opposite pitch and an upset action controlling switch movably mounted in coplanar relation to said cam, said switch responsive in action to the movement of said cam.

2,650,276

## CIRCUIT BREAKER

Harry P. Sparkes, Orange, N. J., assignor to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts

Application May 12, 1950, Serial No. 161,493
16 Claims. (Cl. 200—89)



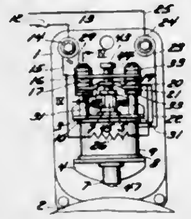
1. A circuit breaker comprising at least one pair of electrical contacts one of which is movable; means for biasing the movable one of said contacts in a set position; tripping means including a slidably arranged block, a spring for urging the block along a path of travel from a latched position to a released position, and lever means interposed in the path of the block and connected with said movable contact to transfer the contacts from their set position upon the movement of the block to its released position; detent means for restraining the block in its latched position including a lever arrangement pivotally attached to the block with one end bearing against a relatively stationary portion of the circuit breaker to act as a fulcrum whereby the force exerted by the detent means against the block to overcome the force of the spring is reduced; magnetic means including a solenoid for releasing the detent means so that the block is moved along its path of travel by the spring to transfer the contacts when the current through the solenoid exceeds a predetermined value; and resetting means for returning the block to its latched position and conjointly transferring the contacts to their set position.

2,650,277

## VIBRATOR SWITCH CONSTRUCTION

Peter C. Reck and Lewis J. Stern, Adrian, Mich., assignors to Sperti Faraday Inc., Adrian, Mich., a corporation of Ohio

Application November 24, 1950, Serial No. 197,432
5 Claims. (Cl. 200—90)



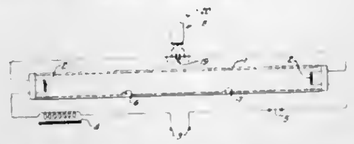
1. For a vibrator switch construction comprising a base, a bracket extending therefrom, a coil on one side of the bracket, and a core for the coil, there being an opening for the core thru the bracket; a pair of posts fixed with the bracket, one on each side of the opening and extending oppositely from the coil, said posts and opening defining a plane parallel to the base, insulation means along the posts, a pair of plates mounted on the posts and by said insulation means spaced from the posts, the bracket and each other, said plates between the posts having openings partially out-of-register, and further said plates providing a switch of a pair of complementary contacts, one of which contacts is on a flexible arm of one of said plates, said arm, spaced from its contact, having an impact-receiving-region, and an insulation element movable with the core, upon energizing of the coil, to pass clear of one of said openings and strike the impact-receiving-region in proximity to the other opening and thereby operate the switch at the plates.

2,650,278

## GLOW TYPE THERMAL SWITCH

Ted E. Foulke, Highland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application December 1, 1951, Serial No. 259,368
11 Claims. (Cl. 200—113.5)



1. A glow type thermal switch comprising a sealed envelope having a portion of alkali-containing glass, an ionizable gaseous atmosphere and electrodes in said envelope at least one of which is deformable by heat into engagement with the other electrode, and current inleads for said electrodes extending through the wall of said alkali-containing glass envelope portion, a getter for alkali in said envelope and covering the junction between said envelope portion and at least one of said inleads to keep the switch atmosphere free from alkali vapor, said getter comprising red phosphorus.

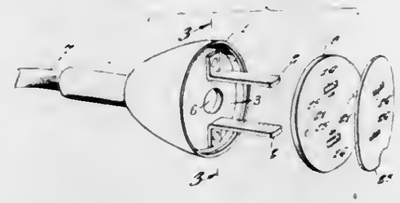


2,650,279

## EXTENSION CORD FUSE PLUG FOR OUTLET CONNECTIONS

John Silver, Jersey City, N. J.

Application October 27, 1951, Serial No. 253,494
3 Claims. (Cl. 200—115.5)



1. In a plug adapted for connection to an outlet socket, contact fingers to make such connection, said plug having a peripheral wall and a hollow recess, a transverse partition wall perforated at its center to provide access for the insertion of wire leads, said fingers attached to the partition and extending outwardly, said peripheral wall being grooved transversely at its inner surface to receive a circular plastic disc, said disc containing one set of perforations to receive said fingers, said disc having a second set of perforations, a contact member having prongs parallel to said fingers and two legs parallel to said disc, one of said prongs being received by a perforation of the first set and the other prong by a perforation of the second set, one of said parallel legs extending along the inner face of the disc and including a fuse retaining groove, the other of said parallel legs extending along the outer disc face, said contact member being formed of a highly flexible metallic material, whereby said contact member can be easily attached to the disc member, including a terminal member removably secured by screw threaded means to the inner disc face, said member including means for making electrical contact with a wire lead, and groove means for removably retaining a fuse, the holder groove and the terminal member groove being in alignment whereby fuses can easily be slid into place, and a second disc formed of a thin insulating material to fit the inner bore of the peripheral wall abutting the external disc face whereby the disc is protected from excessive wear.

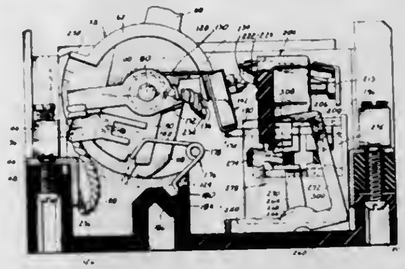
2,650,280

## MULTIPOLE CIRCUIT BREAKER AND TRIPPING DEVICE THEREFOR

Thomas M. Cole, New York, N. Y., and William H. Lantz, Jr., Newington, Conn., assignors to Federal Electric Products Company, Newark, N. J.

Original application August 8, 1944, Serial No. 548,550, now Patent No. 2,487,637, dated November 8, 1949. Divided and this application August 12, 1949, Serial No. 109,868
18 Claims. (Cl. 200—116)

1. A multi-pole circuit breaker, comprising a one-piece manually operable member carrying a plurality of contacts, one for each pole, said contacts being fixed to said member in laterally spaced relation, means for mounting said manually operable member for pivotal movement, contact members mounted for pivotal movement co-axially with said manually-operable member but relative to the latter and positioned in laterally spaced relation for engagement with said contacts, respectively, when the breaker is closed, certain of said contact members being mounted on said mounting-means, spring means for biasing said contact-members for movement to disengage the companion contacts, and trip-releasable means for holding said contact members stationary in opposition to said spring means whereby said contacts fixed to said manually-operable member are engageable with and disengageable from said spring-biased contact members, respectively, by movement of said manually-operable member in opposite directions, respectively, while said contact members are held stationary by said trip-releasable means.

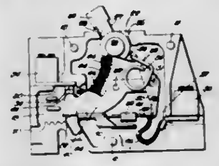


2,650,281

## AUTOMATIC CIRCUIT BREAKER

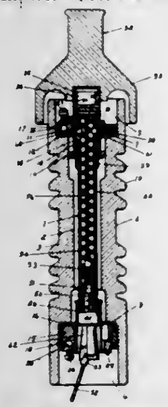
Alexander R. Norden, Maywood, N. J., assignor to Federal Electric Products Company, Newark, N. J., a corporation

Application December 9, 1949, Serial No. 132,176
18 Claims. (Cl. 200—116)



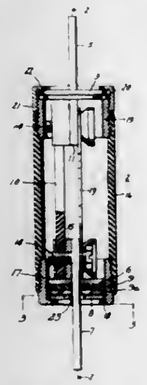
1. In an automatic circuit breaker having relatively movable contact members provided with companion contacts, respectively, a latch member and a flexible control member releasably engaged by said latch member for moving one of said contacts into engagement with the other of said contacts, and a handle for manually operating said latch member and movable to and from circuit-open and circuit-closed positions; a normally resilient link connected between said handle and said latch member, said link being resiliently stressed by said handle when the latter is moved to closed-circuit position so as to resiliently hold said contacts in engagement with each other in the closed condition of the circuit breaker, and having opposing parts disposed to releasably engage each other when the handle is moved toward circuit-open position so as to provide a positive connection between said handle and said latch member for positively moving the latter by the movement of said handle toward circuit-open position.

2,650,282
**CIRCUIT INTERRUPTER**
**Edward C. Gronowski, Wauwatosa, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware**
**Application August 3, 1951, Serial No. 240,193**
**11 Claims. (Cl. 200—129)**



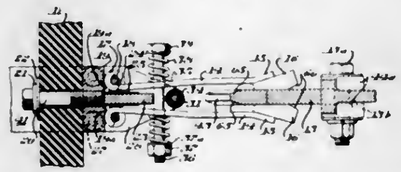
1. A circuit interrupter comprising plug and socket members provided with cooperating contacts, the plug member being tubular and having a fusible element contained therein and connecting said contacts, said fusible element being normally biased towards severance by a transversely expansible resilient member, the wall of said tubular plug member containing a radially slidable member, said socket member being provided with an annular depression, said slidable member being movable radially outwardly towards engagement with said annular depression on contact with said resilient member on transverse expansion of said member after severance of said fusible element, thereby locking said plug member in said socket member.

2,650,283
**RESILIENT END WASHER RENEWABLE FUSE**
**Fred G. von Hoorn, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York**
**Application April 4, 1951, Serial No. 219,205**
**3 Claims. (Cl. 200—131)**



1. In a renewable fuse having aligned axially spaced apart terminal blades, a link electrically interconnecting said blades, a cylindrical casing having means including an inturned flange partially closing one end, and a threaded collar for closing the opposite end, a closure for said flange end of said casing for directing escaping gases through predetermined fixed paths, said end closure comprising a plurality of washers positioned in parallel juxtaposition, each of said washers having a diameter smaller than that of said casing, and each of said washers further having a central slot to permit a terminal blade to pass therethrough, the axially outer one of said washers being positioned to engage the periphery of said casing inturned flange, means forming a gas tight seal between the axially inner one of said washers and said terminal blade to force gases about its peripheral edges, and a pair of washers lying between said axially inner and outer ones, one of said pair being of resilient material and the other of said pair having one waffled face to provide with said axially outer washer circuitous radially inwardly directed passageways to effect a cooling of gases as they pass out of said casing.

2,650,284
**ELECTRICAL CONTACT ASSEMBLY**
**Boris Volgovskoy, Mount Lebanon Township, Allegheny County, Pa., assignor, by mesne assignments, to McGraw Electric Company, a corporation of Delaware**
**Application December 21, 1951, Serial No. 262,700**
**3 Claims. (Cl. 200—162)**



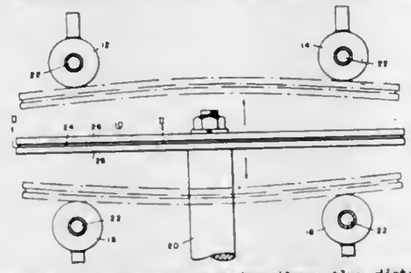
3. In an electric current making-and-breaking contact assembly, in combination, a plurality of generally elongated parallel contacts, each contact comprising a pair of separable sides, a T-shaped contact block, the stem of said block extending between the inner ends of said sides respectively of said contacts, cap plates in opposed relation fastened to the ends of said block, hinge pins extending between said cap plates adjacent said stem, a collector plate bonded to said block along each side of the stem thereof, the inner ends of said respective sides of each of said contacts partially surrounding the adjacent hinge pin and extending between it and the corner of said contact block adjacent thereto, said sides being in continuous engagement with said collector plate, adjustable resilient means engaging the respective sides outwardly of the respective block, an insulating stop extending between and connected to said cap plates outwardly of said block, said stop having a diameter sufficient to provide a gap between the outer ends of said sides of said contacts when said sides are pressed against said stop by said means.

2,650,285
**RADIO FREQUENCY SWITCH APPARATUS**
**William L. Corteggiano and John A. Redmond, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application October 27, 1950, Serial No. 192,540**
**9 Claims. (Cl. 200—163)**

5. In apparatus for interrupting radio-frequency currents, the combination of a first and

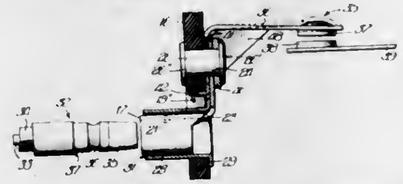


a second contact member, each of said first and second contact members having passages therethrough for the conduction of cooling fluid, and a third contact member adapted to cooperate with said first and second contact members, said third contact member comprising a flat strip of spring



steel having a length greater than the distance between said first and second contact members, and a coating of highly conductive material on said spring steel strip, said coating of highly conductive material extending physically throughout the whole length of said strip of spring steel and lengthwise beyond the ends of said strip

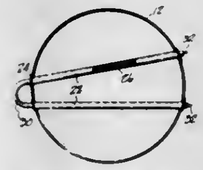
2,650,286
**ELECTRICAL TERMINAL**
**Pedro S. Ramos, Chicago, Ill., assignor to International Register Company, Chicago, Ill., a corporation of Illinois**
**Application June 27, 1951, Serial No. 233,771**
**3 Claims. (Cl. 200—166)**



1. In an electrical terminal for mounting in an insulating panel, the combination of two spaced holes in said panel, a tubular receptacle disposed in one of said holes, a connecting lug extending from said receptacle and having an aperture thereon aligned with the other of said holes, an electrical element having an apertured base portion aligned with said latter hole, a rivet passing through said hole, said apertured lug, and said apertured base portion, a contact bearing arm extending from said apertured base portion, and a stop arm extending from said contact bearing arm and moving directly therewith in all flexure of said contact bearing arm, said stop arm adapted to engage a stop surface for limiting flexure of said contact bearing arm in one direction relatively to said base portion.

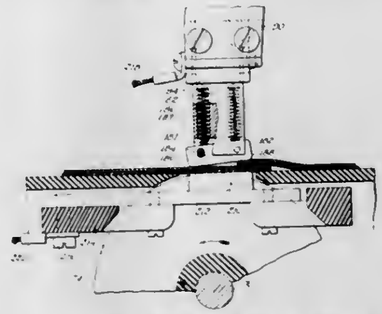
2,650,287
**ELECTRIC WATER HEATER**
**Fred G. Adams, Quincy, Mich., assignor to General Manufacturing and Distributing Company, Quincy, Mich., a copartnership**
**Application December 5, 1951, Serial No. 260,024**
**6 Claims. (Cl. 219—38)**

1. An electric water heater comprising a container having a pair of spaced openings therein, an open-ended tube extending through said container and positioned to be immersed by water in said container, said tube having a sealed fit in said container openings, and an elongated externally insulated electric heating element removably mounted in said tube and projecting



therefrom at its ends, said tube being formed of material having a high heat conductivity and having terminals located outwardly of said container and tube.

2,650,288
**DIELECTRIC BONDING MACHINE**
**Robert W. Bradley, Marblehead, and George T. Hart, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey**
**Application July 8, 1948, Serial No. 37,568**
**2 Claims. (Cl. 219—47)**

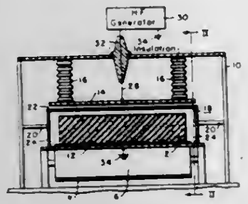


2. An improved work-surface-engaging electrode for use in a dielectric bonding machine having opposed electrodes one of which is moved to and from the surface of the work, said electrode comprising a grooved main portion, an elongated work-surface-engaging portion in said groove having slot and pin connections with said main portion for lengthwise rocking and for movement in said groove means for yieldingly holding said last-mentioned portion at the limit of said slots to be normally parallel to a work surface whereby the work-contacting surface of said electrode automatically alines itself upon engagement to bridge air gaps such as those caused by an incoming overlapped edge of material.

2,650,289
**DIELECTRIC HEATING**
**Richard H. Hagopian, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application August 10, 1949, Serial No. 109,593**
**9 Claims. (Cl. 219—47)**

1. High-frequency apparatus comprising in combination an elongated and substantially rigid tunnel member having only a top and insulating sides, upper and lower heating electrodes, said tunnel member being positioned in the space between said heating electrodes with said upper

heating electrode being at the top of said tunnel, and said lower heating electrode being adapted to form a bottom member for said tunnel member, and with the sides of the tunnel member extend-



ing between said heating electrodes and substantially perpendicular relative thereto for a distance substantially equal to said space between the heating electrodes.

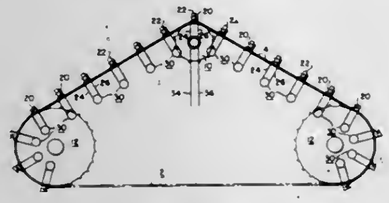
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**2,650,290**

## CONVEYER SYSTEM FOR INDUCTION HEATING

**Paul D. Newhouse, Salix, Iowa, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application September 20, 1949, Serial No. 116,698**
**12 Claims. (Cl. 219—47)**



5. High-frequency heating means of a type described comprising, a heating station comprising a work-holding seat and a high-frequency work-heater associated therewith adapted to heat work in said seat, circuit means comprising a coupling coil separate from said high-frequency work-heater but connected thereto for feeding high-frequency energy to said high-frequency work-heater, said coupling coil comprising a winding having an axis, a carrier movably carrying said heating station and said circuit means along a pre-set path having a concave portion, a stationary primary coil comprising a winding having an axis, said winding being alongside said concave path-portion and arranged so that the axes of said windings become substantially in line during operation of said carrier, whereby said coils are magnetically coupled.

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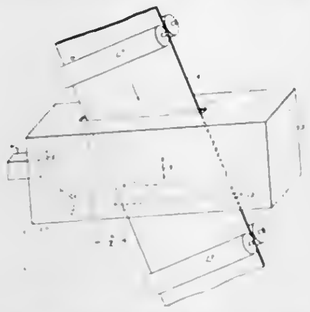
**2,650,291**

## MICROWAVE HEATING

**Theodore P. Kinn, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application October 4, 1946, Serial No. 701,305**
**9 Claims. (Cl. 219—47)**

8. An ultra high frequency heater comprising walls made of an electrically conducting material forming a chamber provided with diagonally opposite openings in its ends, means for passing a material to be heated diagonally through said chamber between said openings, and a high frequency supply source connected to said chamber for producing an electric field mode in said



chamber thereby to heat the material uniformly as it passes through said chamber.

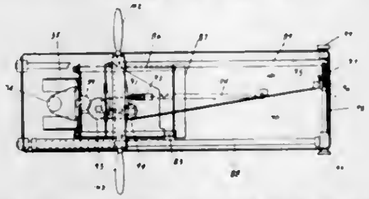
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**2,650,292**

## LAMP HAVING A REFLECTOR, TWO LENSES, AND MEANS TO VARY THE DISTANCE BETWEEN THEM

**Harry H. Strong, Toledo, Ohio, assignor to The Strong Electric Corporation, Toledo, Ohio, a corporation of Ohio**

**Application July 12, 1949, Serial No. 104,159**
**7 Claims. (Cl. 240—3)**



1. In a light-projecting apparatus, a support, means for establishing a beam of light including a light source; a pair of relatively movable lenses arranged in the path of the beam of light; a carrier for each of said lenses movable upon the support axially of the light beam; a flexible member; means for anchoring the member to the support; means connecting the flexible member to one of the lens carriers; an element carried by the support; said flexible member engaging and passing over said element; means for maintaining tension in said flexible element, and means mounted on the other of said carriers engageable with the flexible member for varyingly deflecting the flexible member during relative movement of one of said carriers to concomitantly effect movement of the other carrier at a different speed in a reverse direction.

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**2,650,293**

## LIGHT SOURCE SHIELDING MEANS FOR FLUORESCENT LUMINAIRE

**Nicholas Rippen Aabberly, New York, N. Y.**

**Application January 28, 1950, Serial No. 141,095**
**11 Claims. (Cl. 240—51.11)**



1. In an elongated luminaire, a longitudinal frame member, two lampholders respectively at



the two ends of the frame member and adapted to jointly hold an elongated straight electric discharge lamp, and a set of plate-like, longitudinally extending, translucent, shielding panels disposed in end-to-end relation in said frame and in laterally spaced relation to said lamp, the set including two end panels and at least one intervening panel longer than the combined lengths of the end panels and having a lower light-transmission coefficient than that of the end panels.

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**2,650,294**

## LAMP HARP

**Kornel Berger, Kew Gardens, N. Y.**

**Application July 25, 1951, Serial No. 238,509**
**9 Claims. (Cl. 240—148)**



1. A take-apart lamp harp comprising a resilient bail and a bracket, the bracket including two arms of U-shaped transverse cross-section, the bail having terminal portions each of which is of wedge-shaped transverse cross-section tapering sidewise to wedgingly interengage an associated bracket arm, means to selectively lock the terminal portions against axial movement relative to the bracket arms, and a sleeve slidable on each bracket arm for forcing the wedge-shaped terminal portion into the associated bracket arm and for locking the terminal portion against transverse movement relative to said bracket arm when the sleeve is telescoped over the arm and terminal portion.

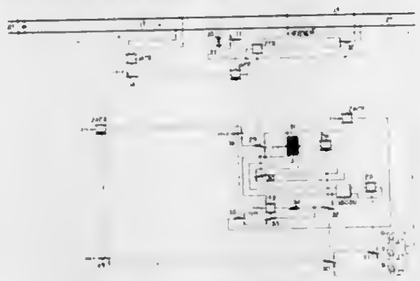
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**2,650,295**

## CODED TRACK CIRCUIT SIGNALING SYSTEM

**Wade H. Reichard, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.**

**Application August 19, 1948, Serial No. 45,093**
**6 Claims. (Cl. 246—34)**



1. A coded track circuit signalling system for a stretch of railway track divided into blocks and having a signal governing entrance to each block for a given direction of traffic comprising in combination, a coded track circuit for each of the blocks having code transmitting and receiving apparatus at each end of the associated block, said code transmitting apparatus being normally inactive but being initiated when its associated block is a predetermined number of blocks in advance of an approaching train, approach control means associated with each of the blocks responsive to the presence of a train in that block for initiating said code transmitting apparatus at the exit end of another block in advance, and a slow acting approach lighting relay for each of the signals operable in response to said approach control means for the block in the rear for energizing its associated signal, said slow acting relay being effective to initially energize its associated signal upon entrance of a train into said block in the rear, only provided there has been time for the initiation of coding in another block in advance in response to said approach control means so as to condition the associated signal to give a clear indication when energized.

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**2,650,296**

## RADIO FREQUENCY AMPLIFIER

**William A. Claps, Chicago, Ill., assignor to Anchor Radio Corporation, Chicago, Ill., a corporation of Illinois**

**Application January 16, 1950, Serial No. 138,897**
**19 Claims. (Cl. 250—16)**



1. A radio frequency amplifier for amplifying in different frequency ranges including input terminals, output terminals, a number of tuning circuits for the respective frequency ranges all located at the input terminal side of the amplifier, a second and corresponding number of tuning circuits for the same frequency ranges all located at the output terminal side of the amplifier, means forming an amplifying vacuum tube socket, and switching means for establishing circuit connections from the input to the output terminals through the socket and selectively through any of the first mentioned tuned circuits in series with a corresponding one of the second mentioned tuned circuits, said switching means including a moving switch assembly, the means forming said vacuum tube socket being on the moving switch assembly.

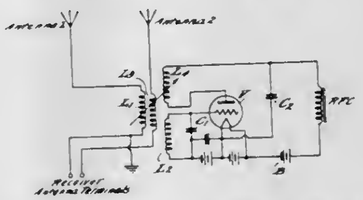
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**2,650,297**

## RADIO RECEIVING SYSTEM

**Charles L. Damron, Lexington, Ky.**

**Application December 9, 1948, Serial No. 64,313**
**12 Claims. (Cl. 250—20)**



1. A noise neutralization system comprising in combination a plurality of signal receiving antenna circuits, each of said circuits having an inductance, means coupling said inductances to differentially combine the noise portions of the

received signals, a regenerative amplifier having its input inductively coupled to said inductances and having means inductively coupling its output to said inductances to differentially combine the noise portion of said amplified signal with said first differential signal thereby to effectively neutralize the noise portion of the desired signal.

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**2,650,298**

## TELEVISION BOOSTER CIRCUITS

**Edwin Paul Thias, Los Angeles, Thomas Lee Fischer, South Gate, Thomas Fisher Gossard, North Hollywood, and Warren Whitmore White, Altadena, Calif., assignors to Standard Coil Products Co. Inc., Los Angeles, Calif., a corporation of Illinois**

**Application March 29, 1951, Serial No. 218,162**
**24 Claims. (Cl. 250—20)**



1. In an amplifier comprising an input circuit, an output circuit, an electronic tube, a power supply; said power supply comprising a power transformer, said power transformer having one primary winding, an iron core and two secondary windings; a line switch, two power input terminals, one side of said primary winding being connected to one side of said line switch, the other side of said line switch being connected to one of said input terminals, the other side of said primary winding being connected to the second of said input terminals; a rectifier, a filter condenser and an output switch; one side of the first of said secondary windings being connected to one contact of said output switch; the other contact of said output switch being connected to one plate of said filter condenser and to the plate screen grid circuits of said electron tube, the other plate of said filter condenser being connected to ground, the other side of the first of said secondary windings being connected to the first element of said rectifier, the second element of said rectifier being connected to ground, the path of lower resistance being from the second element to the first element of said rectifier; one side of the second of said secondary windings being connected to one side of the filament of said electron tube, the other side of said filament being connected to ground, the other side of the second of said secondary windings being also connected to ground.

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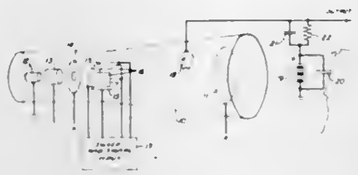
**2,650,299**

## DECODER FOR PULSE CODE MODULATION COMMUNICATION SYSTEMS

**Eugene Peterson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**

**Application September 22, 1948, Serial No. 50,643**
**6 Claims. (Cl. 250—27)**

1. A decoder for pulse code modulation communication systems, comprising a first means for projecting an electron beam, a second means for repeatedly sweeping said beam at a fixed frequency over a closed path of preassigned configuration at a plane spaced from said beam projecting means, target means including an element in said plane and having one end thereof in proximity to said path, said element being positioned so that its entire area lies outside the closed path of the electron beam, a source of pulse code groups, means adjacent the beam path between said first means and said target means and energized from said source of pulse code groups to cause a deviation of the beam from said preassigned closed path so that it will pass across



the entire width of said element once for each pulse in a code group, the sides of said element being positioned so that all beam traces thereacross are of the same time length, and circuit means connected to said target means and energized in accordance with the beam current to said target means for resolving said current during each period corresponding to that of a pulse code group into a signal of amplitude proportional to that of the signal represented by the respective pulse code group.

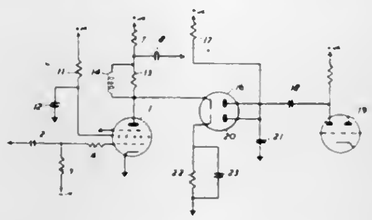
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**2,650,300**

## PULSE CONVERTING CIRCUITS

**Keith Gordon Huntley, Harlington, Hayes, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company**

**Application December 26, 1950, Serial No. 202,706**
**In Great Britain December 21, 1949**
**9 Claims. (Cl. 250—27)**



1. A pulse converting circuit for converting a series of narrow pulses and a sequence of broad pulses into derived pulses in which the pulses derived from said broad pulses are of greater amplitude than that of the pulses derived from said narrow pulses, said circuit comprising a thermionic valve having an input circuit connected to an input electrode of said valve and to which said narrow and broad pulses are applied, an output circuit connected to an output electrode of said valve and having in said output circuit a converter to convert said narrow and broad pulses into pulses of different amplitudes, and a time constant circuit connected to another electrode of said valve and having a time constant shorter than the duration of said sequence of broad pulses to cause said valve to become progressively less conducting during the conversion of said broad pulses.

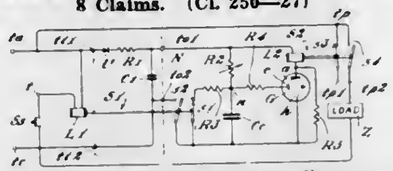


**2,650,301**

## ELECTRIC TIMING DEVICE

**Edward B. Farmer, Waban, Mass.**

**Application March 3, 1951, Serial No. 213,705**
**8 Claims. (Cl. 250—27)**



1. A timing device comprising direct current supply terminals; normally open starting contacts; a tube of the gaseous cold cathode type with anode, cathode, and control electrode; a resistor of comparatively high value permanently and free of said control electrode connected between said anode and said cathode; means connecting said starting contacts between said cathode and one of said terminals; a control relay having a coil for closing said starting contacts; a control capacitor connected between the control electrode and cathode of said tube; and means for charging said capacitor from said terminals upon closure of said starting contacts.

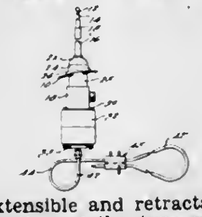
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**2,650,302**

## EXTENSIBLE AERIAL

**Eugene P. Geyer, Detroit, Mich., assignor, by mesne assignments, to Pioneer Specialty Company, a corporation of Michigan**

**Application August 26, 1949, Serial No. 112,505**
**7 Claims. (Cl. 250—33)**



1. In an extensible and retractable telescopic aerial construction of the type which incorporates a movable aerial rod, an electrically controllable motor, an elongated flexible but substantially inelastic driving element formed of insulating material drivable by the motor and connected to the rod to drive the latter in response to energization of the motor, a sheathing tube in which said element slides when so driven, at least a part of said sheathing tube being looped back upon itself so that two longitudinally spaced portions of said sheathing tube through which the element slides lie relatively close to one another in a lateral direction, parts of the sheathing tube being interrupted in two areas located at said close portions, and a dual limit switch structure for controlling the energization of the motor including two switching devices, one such switching device projecting into each interrupted part of the sheathing tube.

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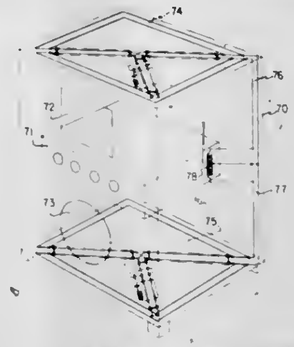
**2,650,303**

## HIGH-FREQUENCY LOOP ANTENNA SYSTEM

**Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois**

**Application July 1, 1949, Serial No. 102,612**
**9 Claims. (Cl. 250—33.67)**

1. A loop antenna system for operation in two separate relatively widely spaced frequency ranges comprising, a pair of V-shaped conductors having low inductance and positioned to form a square, each of the sides of said conductors having a length substantially equal to one quarter wave length at the highest frequency of the higher frequency range to provide antenna elements having a natural response in said higher frequency range, a balanced transmission line



connected to the ends of said V-shaped conductors with the conductors of said transmission line being transposed, tuning means connected to said transmission line including condenser means for tuning said antenna system across the lower of said frequency ranges, said tuning means also including a resonant circuit for emphasizing the response of the higher frequencies in said lower frequency range.

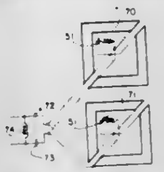
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**2,650,304**

## TELEVISION ANTENNA

**Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois**

**Application September 10, 1949, Serial No. 114,955**
**8 Claims. (Cl. 250—33.67)**



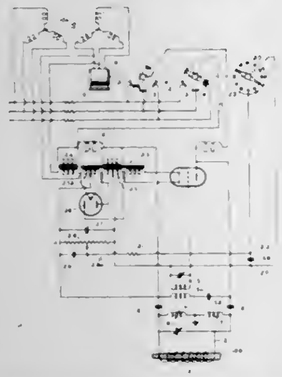
1. An antenna system for operation in a first frequency band and in a second frequency band of lower frequency than said first band, with each of said bands covering a relatively wide range of frequencies, said system including a pair of V-shaped members positioned to form a square loop, said members being formed of relatively wide strips of conducting material with each side thereof having a length substantially equal to one quarter of a wave length at a frequency within said first frequency band, a transmission line including a pair of spaced conductors connected to the ends of said members, said transmission line having the conductors thereof transposed so that a continuous series circuit is provided through said members and said conductors of said transmission line, and tuning means coupled to said transmission line at substantially the center thereof for tuning said antenna system for operation in said second frequency band, said tuning means providing a low impedance between the conductors of said transmission line at frequencies in said first frequency band.

**2,650,305**

## CONVERTER AND OTHER ELECTRICAL APPARATUS WITH ROTARY COMMUTATORS

**Pierre Marie Gabriel Toulon, Paris, France, assignor to Products & Licensing Corporation, New York, N. Y., a corporation of Delaware**

**Application August 4, 1947, Serial No. 766,036**
**In France January 31, 1945**
**Section 1, Public Law 690, August 8, 1946**
**Patent expires January 31, 1965**
**11 Claims. (Cl. 250—36)**



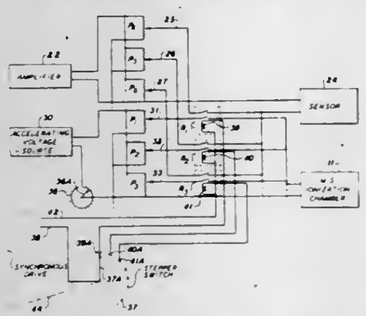
1. In combination, in an electrical distribution system, a source of alternating current, a load circuit comprising a grid controlled electronic valve, mechanical commutating means connected in series between said source and said grid controlled electronic valve for supplying unidirectional operating current to said grid controlled electronic valve from said source, and means operative only during commutation of said alternating current by said mechanical commutating means for interrupting said unidirectional current.

**2,650,306**

## MASS SPECTROMETER

**Charles F. Robinson, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California**

**Application May 20, 1948, Serial No. 28,163**
**20 Claims. (Cl. 250—41.9)**



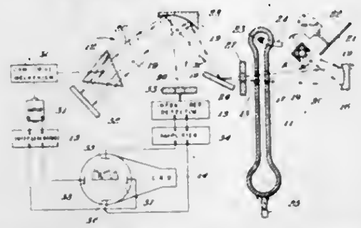
1. In a mass spectrometer having an ionization chamber, an analyzer, an ion collector, means for ionizing molecules in the ionization chamber and electrically energized means to establish a field in the analyzer adapted to focus ions of differing specific mass on the ion collector responsive to variations in the magnitude of the electrical impulses applied thereto, the improvement which comprises a source of constant voltage, means for supplying different voltages from the source to said electrically energized means, a plurality of output channels adapted to carry the separate output voltages developed at the collector responsive to discharge of ions of differing specific mass at the collector, separate means in each output channel for changing the magnitude of the voltage carried in that channel, and sensing means for sensing the output voltages of each channel.

**2,650,307**

## INFRARED ANALYZER

**Otto G. Koppius, White Plains, N. Y., assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.**

**Application May 4, 1950, Serial No. 159,951**
**6 Claims. (Cl. 250—43.5)**



1. Apparatus for determining the composition of a mixture of chemical compounds, comprising a source of infra-red radiant energy, means to derive from said source an analyzing beam having a given intensity, means including a fractional distillation column for said mixture provided with windows permeable to infra-red radiation for transmitting said beam through fluid obtained from said mixture and to derive from said fluid a resulting beam having selective components thereof attenuated, an infra-red detector for developing a voltage proportional to incident radiation, means to direct said resulting beam onto said detector, optical means for diffracting said beam interposed between said source and said detector to provide a spectrum range and arranged to select a desired wavelength band of said range for direction onto said detector, means to adjust said optical means to vary the selection of the wavelength band directed onto said detector, an oscillograph element coupled to said detector and having a deflectable beam, and means to deflect said deflectable beam in synchronism with the selection of the wavelength band directed onto said detector.

**2,650,308**

## METHOD OF AND APPARATUS FOR ASCERTAINING TRUE SIZE OF PHOTOFLUOROGRAPHICALLY RECORDED OBJECTS IRRESPECTIVE OF ENLARGEMENT OR REDUCTION

**Kenneth G. Catlin, Basking Ridge, N. J.**

**Application May 11, 1950, Serial No. 161,314**
**5 Claims. (Cl. 250—59)**

1. The herein disclosed method of obtaining accurate measurement of photofluorographically recorded objects, comprising photofluorographically recording on one film an object in a definite object plane on a reduced scale, photofluorographically recording on a different film a standard measuring scale in the same object plane and in the same proportional reduction and thereafter determining measurements of the photographed object by applying said companion photofluorographically reduced measuring scale produced on the second film to said photofluorographically reduced object recording film.



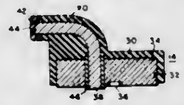


**2,650,309**

## SCINTILLATION COUNTER AND COMPOSITE PHOSPHOR THEREFOR

**Edward L. Webb, Baltimore, and Roy C. Fox, Pasadena, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**

**Application April 27, 1950, Serial No. 158,356**
**8 Claims. (Cl. 250—71)**



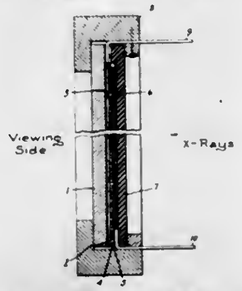
1. In a scintillation counter comprising a light-tight housing permeable to gamma and X-ray radiation, the improvement comprising a phosphor member disposed in the housing comprising a main body of at least one crystal of an organic polycyclic phosphor producing light when excited by gamma and X-ray radiation the crystal being of substantial size and, disposed in contact with the organic phosphor, an inorganic phosphor also producing light when excited by gamma and X-ray radiation, the weight of the inorganic phosphor being present from significant amounts up to 100% of the weight of the organic phosphor, the combined phosphors having substantially non-directional scintillation characteristics in response to gamma radiation and having a more unform correlation between light output Roentgen-rate when exposed to gamma and X-ray radiation than either alone.

**2,650,310**

## X-RAY IMAGE INTENSIFICATION AND METHOD

**William C. White, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**

**Application October 10, 1952, Serial No. 314,069**
**5 Claims. (Cl. 250—71)**



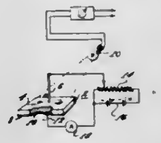

3. An X-ray image intensifier comprising the combination of a stratum of material, the electric impedance of which is subject to change by X-ray excitation, a stratum of electroluminescent material, means for supporting said respective strata in contiguous position, means for impressing an electric field on said strata.

**2,650,311**

## RADIANT ENERGY DETECTING METHOD AND APPARATUS

**Ralph Bray, West Lafayette, and Karl Lark-Horovitz, Lafayette, Ind., assignors to Purdue Research Foundation, Lafayette, Ind., a corporation of Indiana**

**Application October 26, 1950, Serial No. 192,220**
**10 Claims. (Cl. 250—83.3)**



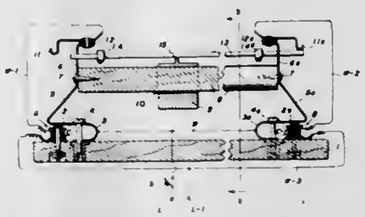
1. A method of detecting changes in the intensity of radiant and heat energy comprising directing said energy to an area adjacent the area of contact between the rectifying electrode and the body of an electrical device which includes a body of P-type germanium semi-conducting material, an electrode in rectifying contact with a surface thereof, and a base electrode, applying a potential between said rectifying electrode and said body in the back direction, and detecting changes in the intensity of electron current flow from said body to said rectifying electrode, which changes occur in response to changes in intensity of said energy.

**2,650,312**

## LINEAR MOTION DEVICE

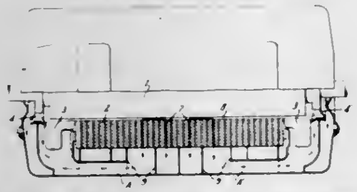
**Edmund Abrahamson, Baldwin, N. Y.**

**Application May 14, 1952, Serial No. 287,750**
**8 Claims. (Cl. 310—29)**



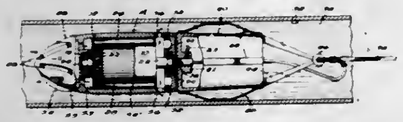
1. In a linear motion device, the combination of a base; an electro-magnet so mounted on said base that the longitudinal axis of its coil is normal to the longitudinal axis of said base; an armature for said magnet, resiliently mounted on said base, and so disposed that its longitudinal axis is parallel with said base; a track so mounted on said armature that its longitudinal axis is parallel with the said axes of said armature and said base; a mass slidably supported on said track; and means adapted to energize said electro-magnet.

2,650,313
**GAS-FILLED ELECTRICAL GENERATOR**
**Eugen Wiedemann, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland**
**Application June 20, 1952, Serial No. 294,530**
**In Switzerland June 9, 1951**
**3 Claims. (Cl. 310—57)**



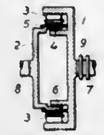
1. A gas filled electrical generator comprising a rotor, a stator, a casing enclosing said rotor and stator, a fan adjacent each end of said casing, radial slots in said stator, two gas conduits within said casing each connecting the discharge of a fan with a separate portion of said radial slots, two gas conduits within said casing each connecting the intake of a fan with other separate portions of said radial slots, each of said conduits connecting the discharge of a fan to said slots being connected through said slots and a space between the rotor and stator to one of said conduits connecting said slots with the intake of a fan, and cooling means positioned to cool the gas within said casing.

2,650,314
**SPECIAL PURPOSE ELECTRIC MOTOR**
**George W. Hennigh and Harry D. Ridge, Long Beach, Calif.**
**Application February 12, 1952, Serial No. 271,180**
**1 Claim. (Cl. 310—67)**



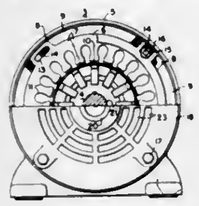
Apparatus for pulling a tool into a well bore comprising: a cylindrical base member which is adapted to be lowered into a fluid-containing well bore and to house said tool; a plurality of outwardly-bowed flexible, longitudinally extending spring elements for engaging the walls of said well bore to restrain rotation of said base member relative to the longitudinal axis of the well bore; an electric current-carrying cable secured to the rear of said base member for lowering said apparatus into said well bore; a rotatable cylindrical member disposed forwardly of said base member, said rotatable member having a motor compartment; a coaxial hollow shaft rigidly mounted at its rear end to the front of said base member and extending forwardly therefrom; blade means removably attached to the front portion of said rotatable member, said blade means being adapted to pull said apparatus through said well bore upon rotation of said rotatable member; bearing means interposed between said shaft and said rotatable member at the front and at the rear of said windings whereby said rotatable member may rotate upon said shaft; a coaxial primary formed of windings disposed in a generally cylindrical configuration about said shaft within said motor compartment; conduit means extending rearwardly through said shaft from said primary for connection to said cable in order that electric current may be supplied to said primary; a non-magnetic fluid-tight shield enclosing said primary windings; a secondary including a plurality of longitudinally extending conductor bars arranged in a generally tubular configuration coaxial with and concentric to said primary windings, said secondary being rigidly mounted within said motor compartment; intake apertures formed in the front portion of said rotatable member in communication with the front of the annular gap separating said primary and said secondary; and, outlet apertures formed in the rear portion of said rotatable member in communication with the rear of said annular gap whereby said fluid may pass through said annular gap in heat-transferring relationship during rotation of said rotatable member.

2,650,315
**ELECTROMAGNETIC SLIP COUPLING**
**Olav Karsten, Vasteras, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation**
**Application December 19, 1950, Serial No. 201,527**
**In Sweden December 27, 1949**
**3 Claims. (Cl. 310—105)**



1. An electro-magnetic slip coupling comprising a primary member, a system of poles supported by said member, a secondary member, an armature supported by the secondary member and having a thickness in a direction at right angles to the surface of the adjacent pole that is less than the thickness required to provide for the magnetic flux a passage through said armature in a circumferential direction, and an iron ring carried by said primary member and located in close proximity to the side of said armature remote from the said pole surfaces, said ring compensating for the lack of thickness in the armature iron and providing an additional circumferential passage for the magnetic flux.

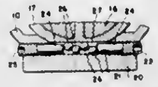
2,650,316
**SKEWED STATOR CONSTRUCTION**
**Francis J. Johns and Alois Jokl, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application July 12, 1950, Serial No. 173,368**
**2 Claims. (Cl. 310—258)**



1. A dynamo-electric machine having a stator member and a rotor member, the stator member including a frame structure and a core member, the core member being mounted in the frame structure and comprising a stack of annular laminations having slots in their inner peripheries, each lamination having a plurality of arcuate, circumferentially spaced slots adjacent its outer periphery, the last-mentioned slots being accurately concentric with the axis of the stator member, and a plurality of straight, axial tension rods extending through the arcuate slots for compressing the stack of laminations, the laminations being stacked in skewed fashion so that at one end of the stack of laminations the tension rods are near one end of the arcuate slots and at the other end of the stack the tension rods are near the other end of the arcuate slots.

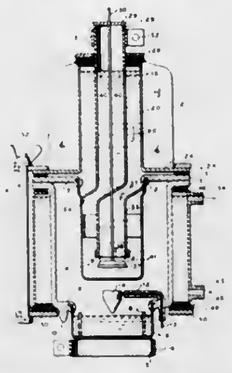


2,650,317
**CORE RETAINER FOR DYNAMOELECTRIC MACHINES**
**William R. Maclay and Emanuel G. Spyridakis, Athens, Pa., assignors to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey**
**Application April 12, 1949, Serial No. 86,988**
**2 Claims. (Cl. 310—258)**



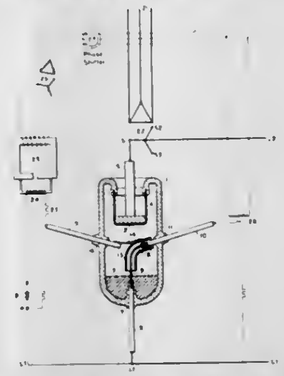
1. A retainer for an electric motor having a stator slidable in a casing, comprising a transverse passage through the casing and having a portion exposed to said stator, a notch in the stator opposite said portion, balls of substantially smaller diameter than the diameter of said passage and positioned in the passage and extending into said notch, and means for forcing the balls against each other to move some of the balls into firm contact with the stator to force the stator into frictional engagement with the casing.

2,650,318
**RECTIFIER TUBE AND SYSTEM**
**Pierre M. G. Toulon, New York, N. Y., assignor to Products and Licensing Corporation, New York, N. Y., a corporation of Delaware**
**Application January 13, 1951, Serial No. 205,845**
**12 Claims. (Cl. 313—32)**



1. A gaseous conduction device, comprising, a cathode, an anode, a container for supporting said cathode and anode, said container comprising two separable parts respectively supporting said anode and said cathode, each of said parts having an externally extending glass flange for sealing the parts to one another, said anode consisting of a hollow receptacle extending internally of said container, said receptacle filled with cooling liquid.

2,650,319
**GRID-CONTROLLED IGNITOR FOR IGNITRONS**
**Marshall Middleton, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application June 14, 1952, Serial No. 293,611**
**18 Claims. (Cl. 313—167)**



1. An asymmetrically conducting vapor-arc device comprising an evacuated container having two, and only two, main electrodes therein and also having an auxiliary starting-electrode therein, the operating portion of one of the main electrodes being a pool-type cathode including a vaporizable reconstructing cathode-material, the operating portion of the other one of the main electrodes including an active face-portion comprising the active main anode of the device, and the operating portion of the starting-electrode being an elongated member having one end immersed in said pool-type cathode, and an insulated grid disposed closely around the starting-electrode in position to control the voltage-gradient near the surface thereof prior to the initiation of an arc in the device.

2,650,320
**COLD CATHODE ELECTRIC DISCHARGE DEVICE**
**Mark A. Townsend, Murray Hill, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York**
**Application November 22, 1948, Serial No. 61,504**
**8 Claims. (Cl. 313—198)**

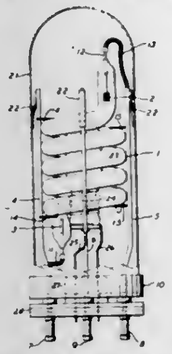


1. A gaseous discharge device comprising a cathode having a pair of closely adjacent refractory metal surfaces bounding a V-shaped channel of depth at least several times the width thereof, a first anode having a portion in proximity to said channel, and a second anode relatively remote from said channel.

2,650,321
## LAMP UNIT AND SUPPORT STRUCTURE THEREFOR

Edward B. Noel, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application December 18, 1946, Serial No. 716,936
1 Claim. (Cl. 313—198)



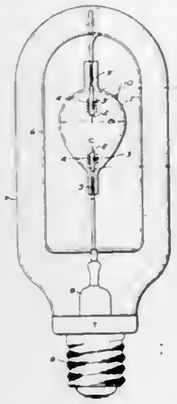
In a lamp unit, the combination of a helically coiled light-transmitting gaseous conduction tube having electrodes in the ends thereof, a light-transmitting tubular jacket surrounding said tube and open at one end, a base member attached to the said one end of the jacket and provided with an opening in alignment with the axis of the coiled tube for insertion therethrough of a modelling lamp, a plurality of rigid conductive support wires secured to said base and extending longitudinally of and spaced around the outside of said coiled tube within said jacket, one of said support wires constituting a triggering electrode for said tube and being bent to an inverted U-shape extending across the top of the coiled tube and down its opposite side and having both legs of the U clamped to said tube by tie wires secured at their ends to said legs and looped around the turns of said tube, and two others of said support wires constituting current lead-in conductors electrically connected to respective ends of said tube and being provided with spuds extending laterally inward therefrom across the top and bottom turns of the coiled tube but terminating short of the space enclosed by said tube, and resilient brace members secured to the upper ends of said lead-in support wires and bearing against the inner wall of said jacket to maintain said wires against said tube with said tube cradled between said spuds and with the space within said coiled tube unobstructed by said spuds, said support wires being so dimensioned as not substantially to obstruct the outward passage of light.

2,650,322
## HIGH-PRESSURE METAL VAPOR ELECTRIC DISCHARGE LAMP

Victor James Francis, North Wembley, and Evan Herbert Nelson, Harrow Weald, England, assignors to General Electric Company, a corporation of New York

Application July 21, 1947, Serial No. 762,420
In Great Britain September 24, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 24, 1965
4 Claims. (Cl. 313—214)

1. A high pressure electric discharge device of the short-gap type comprising a light-transmissive envelope having therein a pair of electrodes spaced at a distance less than the maximum transverse dimension of said envelope, an ionizable medium within said envelope and capable of supporting an arc discharge and comprising mercury and a metal from the group consisting of cadmium and zinc and mixtures thereof, the spacing of said electrodes and the area of the envelope being such that the number of watts

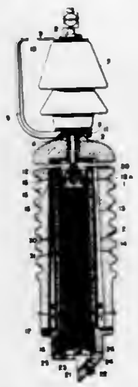


per centimeter of arc length is not less than 250 and the wall loading in watts per square centimeter is not less than 10 and not greater than 40 to produce sufficiently high wall temperature to cause vaporization of said metal as evidenced by the attainment of a red ratio measured through a Wratten 25 filter of not less than 8 per cent at an operating efficiency of not less than 40 lumens per watt.

2,650,323
## ELECTRICAL DISCHARGE DEVICE

Russell A. Wood, South Milwaukee, Wis., assignor to McGraw Electric Company, Milwaukee, Wis., a corporation of Delaware

Application April 22, 1950, Serial No. 157,542
8 Claims. (Cl. 313—231)



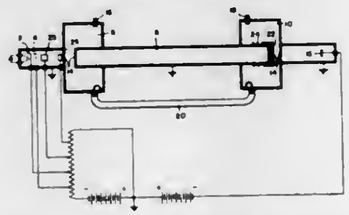
1. In a discharge device for electric lines an insulating tube closed at one end and open at the other, said tube defining an arcing chamber having a plurality of adjacent wall members laterally relative to each other, substantially the entire wall surfaces of adjacent members being normally in light surface contact with each other defining a plurality of laterally adjacent spark-over passages and having the capacity to emit effective quantities of arc-extinguishing gases when subjected to high temperatures, said wall members each characterized by a thin dimension normal to said wall surfaces of said members thereby to permit flexing of the wall laterally of the passage to form an arcing passage in response to pressure exerted by said gases, and an electrode member at each extremity of said wall members, one of said electrode members exposed to said chamber at the closed end, the other of said electrode members being disposed at the open end of said chamber and vented to discharge gases generated within said passages.



2,650,324
## SELF-TUNING KLYSTRON

Max Garbuny, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 19, 1949, Serial No. 71,598
4 Claims. (Cl. 315—6)



1. A high-frequency oscillation generator comprising an envelope having therein a buncher cavity resonator, and a catcher cavity resonator, said catcher cavity resonator containing a metal cap, a resilient mounting for said cap connecting said cap to a wall of said catcher cavity, said mounting having an elasticity of a magnitude to allow the location of said cap to move in response to changes in the force exterted on it by the oscillations in the catcher cavity resonator so as to tune said catcher cavity resonator, said resilient mounting being the only support for said cap.

2,650,325
## LIGHTNING ARRESTER

Edward J. Ehrbar, Cleveland, Ohio, assignor to Cornell-Dubilier Electric Corporation, South Plainfield, N. J., a corporation of Delaware

Application December 6, 1951, Serial No. 280,209
7 Claims. (Cl. 315—41)



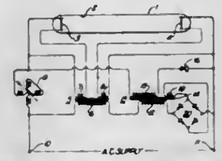
1. In a lightning arrestor for the protection of television antenna lead-in lines, a housing, an inductance coil in said housing, the ends of said coil being adapted for connection to the wires of a lead-in line, a wire connected to and extending from the mid-point of said coil and adapted for grounding, wires connecting said wire with the wires of said lead-in line, and air gaps in said last-named wires.



2,650,326
## DIMMING CIRCUIT AND APPARATUS FOR FLUORESCENT LAMPS

Charles Edington Williams, Stanmore, England, assignor to General Electric Company, a corporation of New York

Application October 17, 1949, Serial No. 121,806
In Great Britain October 26, 1948
3 Claims. (Cl. 315—98)

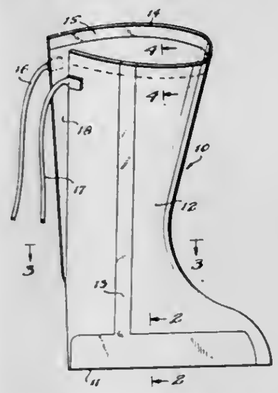


1. A fluorescent lamp of the gaseous discharge type having a pair of filamentary thermionic electrodes, in combination with apparatus for controlling the luminous output thereof and comprising an alternating voltage supply, an adjustable ballast impedance connected in series with said lamp across said supply, an electrode heating transformer having a primary winding and a pair of secondary windings connected to respective ones of said electrodes, a saturable reactor having a regulating winding and a magnetization controlling winding, and a rectifier, said primary winding and said regulating winding being connected in series circuit across said supply, and said rectifier and said magnetization controlling winding being connected in series circuit across said lamp.

2,650,327
## FOOTWEAR WITH BODY GROUNDING MEANS

Walter G. Legge, Brooklyn, N. Y.

Application January 17, 1952, Serial No. 266,823
4 Claims. (Cl. 317—2)

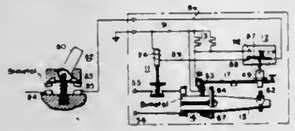


1. In a body grounding device, an article of footwear of non-conductive material having a conductive surface portion exposed on the sole thereof for engagement with a supporting surface, a conductive surface strip exposed on the outer surface of one side thereof and extending from said conductive sole portion to the top of the article of footwear, a conductive surface strip extending about the inner face of said article of footwear and a conductive strip extending over the upper edge of said article of footwear and connecting said upwardly extending strip with the strip on the inner face of said article of foot-

wear, and means carried by said article of footwear for tightening the upper portion thereof about the leg of the wearer for engagement of said conductive strip on the inner face thereof with the leg of the wearer for conducting electrostatic charges from the body of the wearer to the supporting surface.

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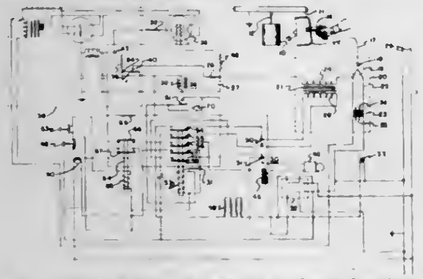
**2,650,328**
**CIRCUIT CONTROL DEVICE**
**Homer B. James, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application November 16, 1950, Serial No. 196,041**
**7 Claims. (Cl. 317—37)**



3. A control device comprising a contactor for controlling a load circuit, said contactor having an operating coil, a control switch connected to the operating coil for controlling the energization of said coil, a bimetallic element connected in series in the load circuit to carry the load current, said bimetallic element being generally U-shaped and being disposed to engage the control switch to actuate said switch to effect de-energization of said coil in response to overload current in the load circuit, and electromagnetic means disposed to independently engage the control switch to effect actuation of the control switch, said electromagnetic means including a magnetic circuit disposed between the legs of the U-shaped bimetallic element to be energized by the current flowing in the bimetallic element, the electromagnetic means being adapted to effect substantially instantaneous actuation of the control switch in response to overload current in excess of a predetermined value in the load circuit, the electromagnetic means including a holding coil adapted to be energized by actuation of the control switch to maintain the control switch in actuated position.

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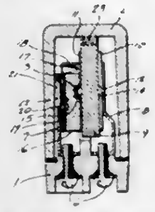
**2,650,329**
**CONTROL APPARATUS**
**John D. Orndoff, Santa Fe, N. Mex., assignor, by mesne assignments, to Ransburg Electro-Coating Corp., Indianapolis, Ind., a corporation of Indiana**
**Application December 13, 1947, Serial No. 791,582**
**7 Claims. (Cl. 317—51)**



6. In combination, an electric load having a supply circuit including a switch operable to de-energize said load, an electron discharge device having a cathode, an anode and a control element, a circuit for applying to said control element a potential proportional to current flowing in said supply circuit for activating said device upon the current in said supply circuit reaching a predetermined value, an anode circuit for said device in which current flow is established upon activation of said device, said circuit including a source of anode voltage, means responsive to current flow in said anode circuit for opening said switch, and an interlocking means energized by said source of anode voltage and being responsive to a failure in said anode voltage source for opening said switch.

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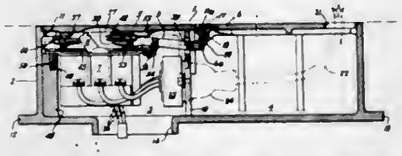
**2,650,330**
**LIGHTNING ARRESTER**
**Herman O. Stoelting, Milwaukee, Wis., assignor to McGraw Electric Co., Milwaukee, Wis., a corporation of Delaware**
**Application April 13, 1950, Serial No. 155,579**
**1 Claim. (Cl. 317—67)**



A lightning arrester comprising a housing, a pair of terminals carried by said housing, a pair of spring clips mounted within said housing and connected to said terminals, and a lighting arrester assembly mounted between said spring clips and consisting of a disk of valve material having a conducting plate on one side thereof, a second conducting plate spaced from said first conducting plate and forming therewith a spark gap, an insulating spacer of ceramic material interposed between said plates, and a tolerance adjusting plastic washer interposed between said ceramic material and one of said plates, said insulating spacer being relatively thick and said plastic washer being relatively thin.

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**2,650,331**
**FLOOR OUTLET WITH SWITCH INTERLOCK**
**Edward B. Clark, Milford, Conn., assignor to General Electric Company, a corporation of New York**
**Application May 1, 1951, Serial No. 223,957**
**3 Claims. (Cl. 317—120)**

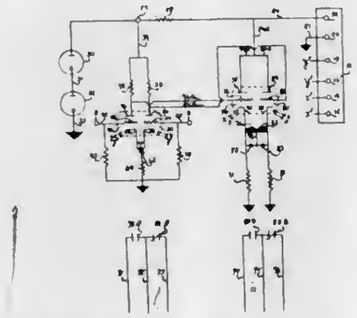


1. In combination, an outlet box having an open top, a transversely extending partition wall in the box which divides it into a switch compartment and an outlet compartment, a removable cover fixed over the switch compartment, a hinged cover for the outlet compartment, the hinge means for the hinged cover being located adjacent said transversely extending partition wall, a switch in the switch compartment having an operating arm, a convenience outlet mounted in the box with its contact receiving openings facing into the outlet compartment, said convenience outlet being wired to said switch, a slidably mounted carriage in the switch compartment for actuating the switch operating arm, a crank arm connected to the underside of said hinged cover projecting down into the outlet compartment, and a link which extends through said partition wall and is pivotally connected at one end to said carriage and at the other end to said crank arm whereby opening and closing movement of said cover actuates said switch by sliding the carriage relatively to the switch.

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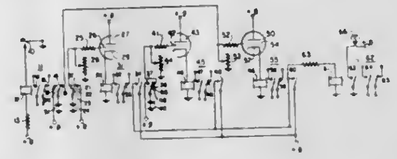
**2,650,332**
**AUTOMATIC ELECTRONIC ERROR CORRECTION CIRCUIT**
**Robert W. Bordewieck, Southboro, Mass., assignor to Moore Electronic Laboratories, Incorporated, Worcester, Mass., a corporation of Massachusetts**
**Application May 22, 1950, Serial No. 163,530**
**3 Claims. (Cl. 317—137)**



1. In an electronic control circuit comprising a D. C. amplifier and a current operated control device driven by the output voltage of said D. C. amplifier, the said D. C. amplifier being in the form of a Wheatstone bridge circuit wherein the four resistance arms of the bridge comprise the internal D. C. plate to cathode resistances of a pair of similar amplifier tubes and two resistances connect the respective plates of the two amplifier tubes to a common point, the positive terminal of a D. C. power supply being connected to the common point, the negative terminal of the said power supply being connected to a point where the cathode currents of the two amplifier tubes are joined, the two said amplifier tubes having means of applying different signal voltages to the respective control grids thereof, said signal voltages being effective to control both the magnitude and the polarity of the amplifier output voltage which is taken from between the plates of the two said amplifier tubes; that improvement wherein the said current operated control device comprises two relays having their coils connected in series and each said coil being shunted by a unidirectional current device, the two said unidirectional current devices being connected in series and in opposition to each other, thereby causing the first of said relays to be energized and to perform one control function through means of the contacts thereof when the amplifier output voltage applied to the coils of said current operated control device is of one polarity, and causing the second of said two relays to be energized and to perform a separate and different control function through the means of its contacts when the amplifier output voltage applied to the coils of said current operated control device is of opposite polarity, and whenever the voltages at the two separate inputs of said D. C. amplifier are of equal magnitude and of the same polarity, the current in the coils of said current operated control device is zero and neither of said two relays is energized and neither of said control functions is performed.

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**2,650,333**
**TIMING SYSTEM**
**Neil B. Taylor, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois**
**Application August 6, 1948, Serial No. 42,911**
**2 Claims. (Cl. 317—146)**



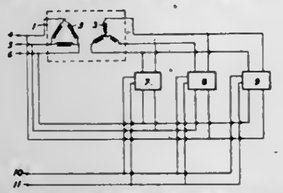
1. A timing system for operating a plurality of controls in sequence including in combination, a source of positive potential, a first electrically operable control including relay means, first condenser means, resistor means, an electron discharge valve having a cathode, an anode and a grid, main operating switch means having a movable contact and first and second fixed contacts, circuit means connecting said first condenser means between said movable contact and ground, said source of potential to said first fixed contact, said grid of said valve to said second fixed contact, and said resistor means between said grid of said valve and ground, means connecting said source of potential to said anode of said valve and connecting said relay means between said cathode of said valve and ground so that said cathode of said valve is held at a positive potential and said valve is normally non-conducting, said movable contact of said switch means normally engaging said first fixed contact to charge said condenser means from said source of positive potential and moving upon actuation of said switch means to a position engaging said second fixed contact to apply the charge across said condenser means to said grid for rendering said discharge valve conducting, said resistor means constituting a discharge path for said condenser when said switch is actuated to reduce the charge thereof and thus control the interval during which said valve conducts, second condenser means, and a second electrically operated control, said relay means having a movable contact and first and second fixed contacts positioned to be selectively engaged by said movable contact, said circuit means connecting said second condenser means to said movable relay contact, said source of potential to said first fixed relay contact, and said second electrically operable control to said second fixed relay contact, with said relay means holding said movable contact thereof in engagement with said first fixed contact thereof for charging said second condenser means when said discharge valve is conducting, and holding said movable contact thereof in engagement with said second fixed contact thereof when said discharge valve is non-conducting, so that said charged condenser means actuates said second electrically operated control.

**2,650,334**
## ELECTRIC CAPACITOR
**Wilfred F. Skeats, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York**
**Application December 21, 1950, Serial No. 201,947**
**5 Claims. (Cl. 317—242)**



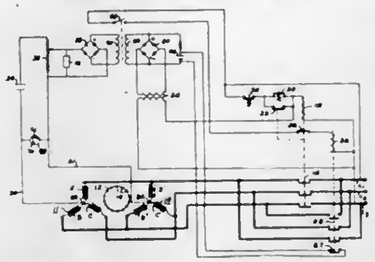
1. A capacitor adapted to form an enclosing structure for the interrupting means of an electric circuit breaker comprising, a tubular member of dielectric material, a first group of metallic tubular elements embedded in said material and disposed in stepped relationship and with the terminal elements of the group respectively near the inside and outside surfaces of said tubular member, and a second group of metallic tubular elements embedded in said material and disposed in stepped relationship and with the terminal elements of the group respectively near the inside and outside surfaces of said tubular member, one of the terminal elements of one group surrounding one of the terminal elements of the other group and the other terminal element of said one group being disposed within the other terminal element of said other group.

**2,650,335**
## SYNCHRONIZING OF AN INDUCTION MOTOR
**Eric McPhail Leyton, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a British company**
**Application April 4, 1950, Serial No. 153,906**
**In Great Britain April 8, 1949**
**8 Claims. (Cl. 318—197)**



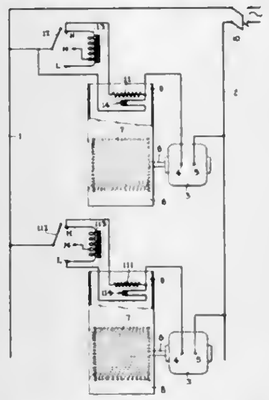
1. Apparatus comprising an electric induction motor having two elements consisting of a wound rotor and stator, at least one of said elements being polyphase wound, mixing means, means for feeding to said mixing means current at the frequency of a main source of power supply for said motor and current at a different synchronizing frequency, means for deriving from said mixing means a polyphase current at a difference frequency which is the difference between the frequencies of said source current and said synchronizing current, means for applying to said polyphase wound element said polyphase current at said difference frequency, and means for connecting said other element to said source, whereby said motor is synchronized with current at a synchronizing frequency different from that of said source.

**2,650,336**
## ELECTRIC MOTOR AND MOTOR CONTROL MEANS
**Samuel Noodleman, Dayton, Ohio, assignor to Louis R. Mahrt and D. Robert Laughter, as trustees for the Standard Dayton Corporation, Dayton, Ohio, a corporation of Ohio**
**Application August 16, 1949, Serial No. 110,580**
**4 Claims. (Cl. 318—210)**



3. In a four pole motor, a motor stator having Y—Y connected phase windings arranged in slots provided in said stator, a squirrel cage rotor having an odd number of rotor bars arranged to pass beneath said phase windings so as to generate a ripple voltage in said windings in response to relative rotation between said rotor bars and said phase windings, and means connected between the neutral points of said Y—Y windings so as to be operated by the ripple voltage present between said neutral points, said last named means comprising a plug controller for said motor.

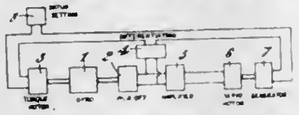
**2,650,337**
## STARTING CIRCUIT FOR LOW TORQUE VARIABLE-SPEED MOTORS
**Francis M. Raver, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware**
**Application May 11, 1951, Serial No. 225,796**
**3 Claims. (Cl. 318—305)**



1. The combination of an electric circuit including a motor, a speed controller for the motor, and heating means; a shunt circuit bypassing current around at least a portion of said speed controller; a thermostatic switch in the shunt circuit, the thermostat of said switch being in heat exchange relation with the heating means, said switch establishing said shunt circuit only when heated; a fan driven by said motor and means to direct air delivered by the fan against the heating means thereby suppressing its heating effect.

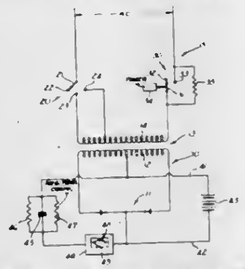


**2,650,338**
## AUTOMATIC AIRCRAFT CONTROL SYSTEM
**Frederick William Meredith, James Sudworth, Dennis Lello Meredith, and David William Righton, Cricklewood, London, England, assignors to S. Smith & Sons (England) Limited, Cricklewood, London, England, a British company**
**Application February 11, 1949, Serial No. 75,802**
**In Great Britain February 16, 1948**
**12 Claims. (Cl. 318—489)**



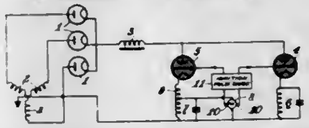
1. In combination an automatic control system for varying a condition in accordance with the rate of change of a variable quantity comprising a member displaceable by a first force which is in accordance with said rate of change, a pick-off device giving a signal in accordance with the displacement of said member from a datum position, an amplifier, to the input of which is applied said signal, controlling means for said condition actuated by the output from said amplifier, a signal generator generating a signal in accordance with the condition and means for applying to said displaceable member a second force in accordance with the output signal from said signal generator in opposition to the first force whereby zero error within the system is cancelled by appropriate displacement of said member.

**2,650,339**
## BATTERY CHARGING APPARATUS
**Soren L. Christie and Frank C. Marshall, Los Angeles, Calif., assignors to McColpin-Christie Corp., a corporation of California**
**Application September 15, 1951, Serial No. 246,748**
**21 Claims. (Cl. 320—23)**



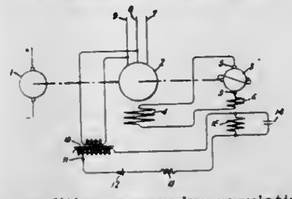
21. In a battery charging apparatus, the combination of: a charging circuit; means for connecting a battery to be charged across the output of said charging circuit; and a voltmeter, a condenser and a resistor connected in circuit across the output of said charging circuit in parallel with the battery to be charged.

**2,650,340**
## ARRANGEMENT FOR CONVERTING DIRECT VOLTAGES INTO ALTERNATING VOLTAGES
**Klaas Posthumus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee**
**Application April 29, 1949, Serial No. 90,452**
**In the Netherlands May 3, 1948**
**9 Claims. (Cl. 321—36)**



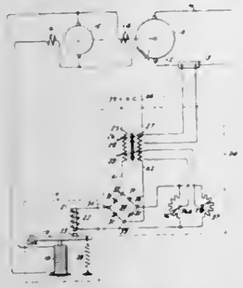
1. An inverter for translating a direct voltage into an alternating voltage of predetermined frequency comprising first and second grid controlled gaseous discharge tubes, an output impedance connected in series with said first tube to form a series connection, said output impedance including an oscillatory circuit tuned to said predetermined frequency, means connecting said second tube across said series connection, a source of auxiliary alternating voltage connected across said oscillatory circuit, means to interpose a load impedance between said second tube and said series connection, means including an inductance to apply said direct voltage across said series connection, and ignition means coupled between said source and the grids of the first and second tubes periodically to ignite said first and second tubes alternately at said predetermined frequency whereby said alternating voltage is developed across said load impedance, said auxiliary voltage having a phase at which said first tube is extinguished at the instant in which said second tube is ignited.

**2,650,341**
## VOLTAGE REGULATOR
**Benjamin W. Jones, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York**
**Application July 1, 1948, Serial No. 36,360**
**8 Claims. (Cl. 322—28)**



7. In a condition responsive regulating system for a source of alternating current supply, a rectifier device characteristically rectifying only when an alternating potential below a certain voltage is applied thereto, said device passing alternating current at potentials above said certain voltage and having the ability to reacquire said rectifying property when said applied alternating potential falls below said certain voltage, said certain voltage providing a critical point about which said rectifier device operates, means for applying to said device an alternating potential responsive to said condition of said source of alternating current supply, and electromagnetic means responsive to the output current of said rectifier device for regulating said source of alternating current supply to maintain said condition at a selected value corresponding to said certain rectifier voltage.

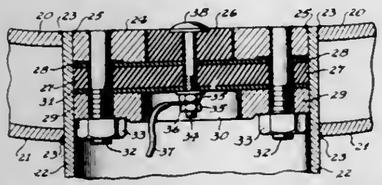
**2,650,342**
**MAGNETIC AMPLIFIER CIRCUIT**
**Montgomery Ker, Scotia, N. Y., assignor to General Electric Company, a corporation of New York**
**Application February 23, 1952, Serial No. 273,095**
**3 Claims. (Cl. 323—89)**



1. A magnetic amplifier system comprising a saturable reactor having at least one load winding and two control windings, load current circuit means including connections to a load for consuming current from the said load winding, rectifier means connected in said load current circuit, a pair of parallel connected resistor devices each having tap means for deriving an intermediate potential therefrom connected to said rectifier means, the tap means for at least one of said resistor devices being adjustable to provide a plurality of intermediate potentials, said resistor devices being arranged to carry unidirectional currents proportional to the current passing through the said load current circuit, connections to a source of signal voltage for energizing one of the said control windings to affect the saturation of the said reactor and thereby affect the passage of current through the said load current circuit, and means connecting the said second control winding to the said two tap means for energization by the potential between the two tap means whereby the said second control winding affects the action of the said first control winding in affecting the passage of current through the said load current circuit by an amount dependent in sense and magnitude upon the relative positions of the said two tap means.

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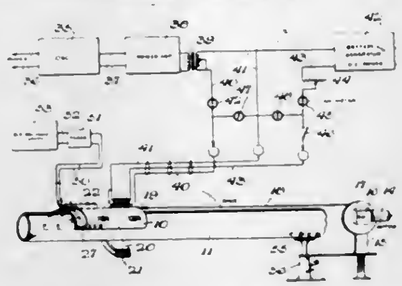
**2,650,343**
**DEVICE FOR END POINT DETERMINATION IN FAT RENDERING PROCESS**
**John E. Thompson, Chicago, Ill.**
**Original application November 9, 1949, Serial No. 126,424. Divided and this application July 14, 1951, Serial No. 236,809**
**2 Claims. (Cl. 324—29)**



1. In a fat rendering cooker; a housing extending through said cooker and secured to the walls of said cooker; an inwardly extending flange rigidly secured to one end of said housing, insulator block means having a central portion encircled by said flange and a radial portion overlapping one surface of said flange; a metal terminal supported by and extending through said insulator block means and having an end in contact with the material being rendered in said cooker; a retaining ring over said radial portion; a plurality of pins rigidly secured to said flange and having threaded ends, said pins extending outwardly from one surface of said flange and through registerable apertures in said insulating block means and said retaining ring; and nuts engaging with the threaded ends of said pins and grippable from without said cooker.

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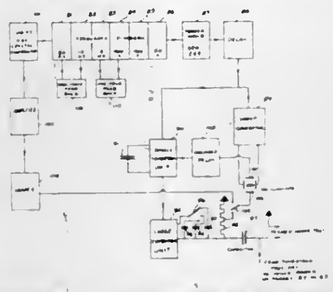
**2,650,344**
**MAGNETIC TESTING APPARATUS**
**Donald Lloyd, Oklahoma City, Okla., assignor, by mesne assignments, to Tuboscope Company, Harris County, Tex., a corporation of Delaware**
**Application March 22, 1949, Serial No. 82,714**
**11 Claims. (Cl. 324—37)**



1. In an apparatus of the character described, a hollow semi-cylindrical carriage to be moved lengthwise of the specimen to be tested, bearings mounted in said carriage and engaging the specimen, a vibrating coil mounted adjacent one end of said carriage and surrounding said carriage and the specimen to be tested, a magnetizing coil mounted outside of and surrounding said vibrating coil, a pick-up unit spaced from the other end of said carriage and means for adjustably securing said pick-up unit to said carriage.

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**2,650,345**
**APPARATUS FOR LOCATING CABLE FAULTS**
**John P. Lozes, Jr., New Orleans, La.**
**Application March 29, 1949, Serial No. 84,163**
**6 Claims. (Cl. 324—52)**

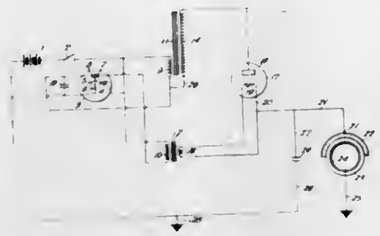


1. Means for locating faults in a cable by the pulse-reflection method comprising an oscilloscope having horizontal and vertical deflection plates, a source of constant-frequency direct-current pulses, a sweep generator connected to said horizontal plates, means triggering said sweep generator from said source, a pulse-forming network connected to said vertical plates, means triggering said pulse-forming network from said source, a variable delay circuit connected to said vertical plates, means triggering said variable delay circuit from said pulse-forming network, means connecting the output of said pulse-forming network to said cable, and a source of relatively low frequency periodic high voltage connected to said cable.

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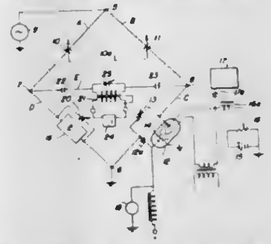
**2,650,346**
**APPARATUS AND METHOD FOR TESTING PIPE COATING**
**John P. Rasor, San Gabriel, Calif.**
**Application April 27, 1949, Serial No. 89,892**
**14 Claims. (Cl. 324—54)**



1. In an electrical device for testing pipe coating on a metal pipe by applying a high test voltage across the coating between the metal of the pipe and an electrical probe adapted to conform to and contact a portion of the outside of said coating, means for supplying a high voltage unidirectional current at a voltage above 3000 volts and at a power above 1 watt, said means having two electrical connections therefrom, one for electrical connection to the metal of the pipe and the other for electrical connection to an electrical probe adapted to be applied to and moved over the coating to be tested to apply said high voltage unidirectional current across said coating between said probe and the metal of said pipe, said probe, coating and metal pipe constituting a condenser of such capacity causing an electrical energy loss with high voltage alternating current and for storing unidirectional electrical charge to cause a unidirectional spark to jump through holidays in the coating between said probe and metal pipe.

11. In the method of testing pipe coating for holidays in which the coating is a relatively thin layer of dielectric material of high dielectric strength and high resistivity on the outside of metal pipe for protecting the metal pipe from corrosion when buried under ground and in which a high test voltage is applied across the coating between the metal of the pipe and an electrical probe moved along the coated pipe in contact with the outside of said coating such that the system consisting of probe, coating and metal pipe constitutes a condenser of sufficient capacity so that high voltage alternating test current causes a resulting electrical energy loss due to the capacity of such condenser, the improvement which comprises applying a high unidirectional voltage across the coating between said probe and the metal of said pipe and storing electrical charge on said condenser consisting of probe, coating and metal pipe to thereby cause a unidirectional spark to jump through holidays between said probe and the metal of said pipe.

**2,650,347**
**IMPEDANCE MEASURING BRIDGE**
**Francis J. Gaffney, Malverne, and Herbert A. Finke, New York, N. Y., assignors to Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y., a corporation of New York**
**Application August 25, 1950, Serial No. 181,412**
**9 Claims. (Cl. 324—58)**



3. A direct reading four-arm impedance measuring bridge comprising, in combination, a pair of variable condensers having substantially equal capacitance values connected as ratio arms of the bridge, a mechanical coupling between the movable elements of said variable condensers to maintain equality of capacitance of said condensers for all settings to provide means for varying bridge sensitivity, a variable standard of impedance connected as the third arm of the bridge and including a grounded-grid triode serving as the real component and a variable calibrated condenser connected in parallel with said triode and serving as the quadrature component of said standard, means affording connection of an unknown impedance as the fourth arm of the bridge, a low frequency signal source connected to the input of said triode, a variable bias circuit connected to said triode, indicating means affording continuous measurement of the resistance of said triode, means affording connection of a high frequency signal source across one pair of diagonal junction points of said bridge, and means affording connection of a bridge balance indicator across the other pair of diagonal junction points of said bridge.

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**2,650,348**
**INDUCTION GALVANOMETER**
**Roswell W. Gilbert, Montclair, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey**
**Application August 5, 1949, Serial No. 108,812**
**16 Claims. (Cl. 324—120)**

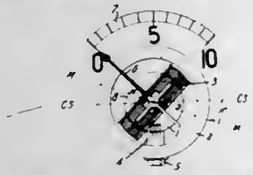


16. An induction galvanometer of the type including a magnetic field structure having spaced polar surfaces between which a unidirectional magnetic flux is established, a coil supported for angular displacement in the gap between said polar surfaces in response to direct current traversing said coil, means for superposing a high frequency alternating magnetic flux upon the unidirectional magnetic flux traversing said interpolar gap, and a core assembly within said interpolar gap and inside of said coil, said core

assembly including sections of different magnetic characteristics constituting parts of substantially separate paths in parallel between said spaced polar surfaces for the unidirectional magnetic flux and for the alternating magnetic flux.

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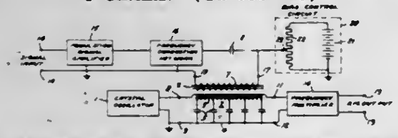
**2,650,349**
**ELECTRICAL INSTRUMENT WITH PERMANENT MAGNET CORE**
**Francis X. Lamb, East Orange, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey**
**Application August 11, 1949, Serial No. 109,696**
**9 Claims. (Cl. 324—151)**



1. An electrical measuring instrument of the type including a transversely magnetized cylindrical core, a soft iron yoke surrounding said core and spaced therefrom by a radial air gap, and a coil surrounding said core and pivotally supported for angular movement about an axis extending through said core; characterized by the fact that said core has diametrically arranged polar surfaces of different radii of curvature constituting portions of the inner wall of said air gap, and each of said polar surfaces is symmetrical with respect to a plane passed through the magnetic axis of the core.

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**2,650,350**
**ANGULAR MODULATING SYSTEM**
**Paul D. Heath, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York**
**Application November 4, 1948, Serial No. 58,251**
**6 Claims. (Cl. 332—29)**

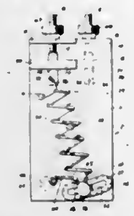


1. An angular modulating system comprising a constant frequency oscillator, a pair of output terminals, an artificial transmission line consisting of substantially non-dissipative elements connected between said oscillator and said terminals, a substance having a variable permeability located in the magnetic field of said transmission line, a magnetizing winding surrounding said substance, a source of modulating signal, and means to supply a current from said source to said winding to vary the magnetization of said substance in accordance with said modulating signal.

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**2,650,351**
**TRANSFORMER UNIT**
**Ernest Gostyn, Longmeadow, Mass., assignor to General Instrument Corporation, Elizabeth, N. J., a corporation of New Jersey**
**Application September 29, 1952, Serial No. 312,118**
**17 Claims. (Cl. 336—20)**

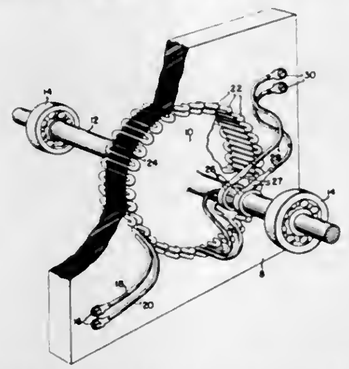
1. A transformer unit comprising a support, a pair of coils the ends of which are secured to said support and the bodies of which are free of said support, one end of one of said coils being adjustably secured to said support along a line substantially perpendicular to said coil and in



a plane substantially parallel to said other coil, whereby the relative orientation of said coils, and hence the coupling between them, may be varied.

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**2,650,352**
**VARIABLE INDUCTANCE FOR MEASURING MOTION**
**Robert S. Childs, South Sudbury, Mass., assignor, by mesne assignments, to Edward G. Martin, Cambridge, Mass.**
**Application December 27, 1947, Serial No. 794,192**
**13 Claims. (Cl. 336—123)**



1. Apparatus for electrical measurement comprising two relatively rotatable members, a large number of series-connected conductor bars extending back and forth across said members and in directions generally perpendicular to the direction of relative movement, the bars being in accurately spaced arrangement, the bars of the two members having the same angular spacing, each bar of either member being in inductive relationship with only those bars of the other member that are immediately opposed thereto.

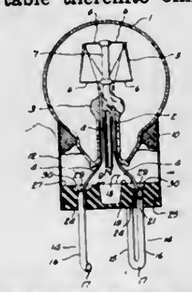
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**2,650,353**
**ELECTRIC TERMINAL CONNECTOR**
**Fredrick S. Lamb, Cleveland Heights, and Herman E. Hermanson, East Cleveland, Ohio, assignors to General Electric Company, a corporation of New York**
**Application December 26, 1951, Serial No. 263,455**
**9 Claims. (Cl. 339—145)**

1. An electrical connector comprising a body member provided with an insulative wall, and a contact prong formed of rigid wire bent into U-shape and securely fastened to said wall with its U-bend outward, the two legs of the prong having laterally bent inner end portions and said wall having a slot therethrough and a groove in



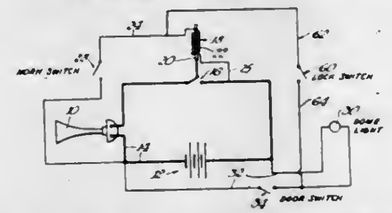
its outer face separated from each other and of a width to snugly receive the respective prong legs and their said bent end portions, said slot and groove being disposed at an angle relative to each other of slightly different degree from that of the prong bent end portions whereby the latter are insertable thereinto only upon spring-



distortion thereof, and said bent end portions being separated longitudinally of the prong a distance to snugly receive the said wall therebetween to thereby lock the prong longitudinally in place upon insertion of the innermost one of said bent end portions completely through the said slot.

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**2,650,354**
**AUTO BURGLAR ALARM**
**John Maxwell Joiner, Jr., Chicago, Ill.**
**Application November 17, 1950, Serial No. 196,265**
**2 Claims. (Cl. 340—63)**



2. An alarm device for use in an automobile having a door, comprising a battery, a horn, a main circuit including the battery and horn, a relay switch in said main circuit, a horn circuit, including a switch, connected across said main circuit and including the battery and relay switch for operating the horn, a secondary circuit including said battery and a light to be operated by the battery and also including a door switch, said door switch being normally self-biased to closed position and adapted to be opened by the door when the latter is closed, and an auxiliary circuit consisting solely of a key-controlled lock switch and wiring, said auxiliary circuit being connected to said secondary circuit and relay switch in an arrangement in which the lock switch, door switch, battery and relay switch are disposed in series, whereby when the lock switch and door switch are both closed the horn will be operated.

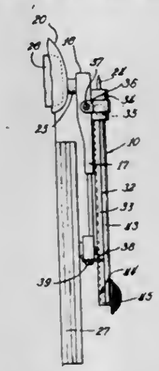
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**2,650,355**
**SIGNAL DEVICE ASSOCIATED WITH WINDSHIELD WIPER**
**Peter Joseph Pieczonka, Chicago, Ill.**
**Application December 29, 1949, Serial No. 135,781**
**8 Claims. (Cl. 340—136)**

1. A signal device adapted to be carried by the arm of a windshield wiper or the like for oscil-



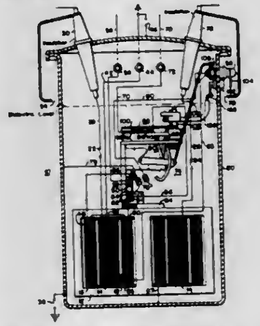
lating movement therewith and comprising, in combination, a substantially semi-cylindrical metal reflector which is axially elongated and has a light reflective and concave front surface, a mounting bracket secured to and projecting from the reflector, a socket for an electric light



secured to one end of the front surface of the reflector for carrying an electric light bulb partially within the concave surface contour of the reflector, and means for providing a tell-tale indication of low intensity at the rear of the reflector and from the illumination of said light bulb to show that the bulb is lit.

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**2,650,356**
**PROTECTIVE DEVICE FOR TRANSFORMERS**
**Gerhard M. Stein, Sharon, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania**
**Application May 5, 1950, Serial No. 160,159**
**9 Claims. (Cl. 340—227)**

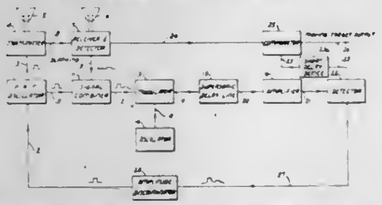


1. In combination, an electrical transformer comprising a casing, a fluid dielectric therein, current-carrying insulated electrical-conductor coils immersed in the dielectric, thermally responsive means disposed within the dielectric to be responsive to the temperature occasioned by the operation of the transformer, means visible exteriorly of the casing for indicating a predetermined maximum temperature indication of the thermally responsive means while the transformer is in useful operation, means external of the casing disposed for operation to adjust the thermally responsive means within the casing whereby the means visible externally of the casing indicates a predetermined higher maximum-temperature indication of the thermally responsive means while the transformer is in useful

operation, and means coperating with the thermally responsive means and said external adjusting means and responsive to a predetermined decrease from said predetermined higher maximum-temperature indication to automatically release said externally adjusting means whereby the means visible externally of the casing again indicates the predetermined maximum-temperature indication of the thermally responsive means while the transformer is in useful operation.

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**2,650,357**
**DELAY CONTROLLED PULSE GENERATOR**
**Allen C. Munster, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania**
**Application November 13, 1947, Serial No. 785,645**
**4 Claims. (Cl. 343—7.7)**

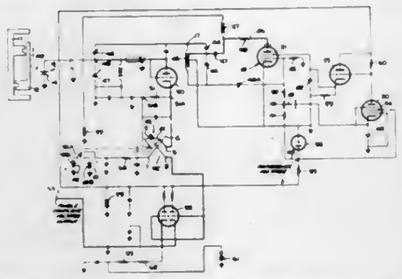


2. In combination, means responsive to triggering impulses for generating pulse signals timed with reference to said triggering impulses, said means being non-responsive to triggering impulses during an interval of predetermined duration following each triggering, means responsive to said generated pulses for producing other signals, means for combining said generated pulses with said other signals, delay means having an input circuit and an output circuit and adapted to delay signals applied to its input circuit by a predetermined amount less than twice the duration of the interval during which said pulse generating means is unresponsive to triggering impulses, means for applying said combined signals and generated pulses to the input circuit of said delay means, means for deriving from said output circuit delayed versions of said combined signals and generated pulses, means for separating said generated pulses from said other signals in said delayed output, and means for applying said separated pulses as triggering impulses to said pulse generating means, whereby said pulse generating means is caused to generate pulses whose spacing is substantially equal to the delay of said separated output signals with reference to said signals produced in response to said generated pulses.

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**2,650,358**
**OSCILLATION NETWORK WITH CIRCUITS FOR DEVELOPING VOLTAGES IN ACCORDANCE WITH ANGULAR POSITIONS OF RADIATED ANTENNA BEAMS**
**George B. Crane, Redondo Beach, Calif., assignor to Gilfillan Bros., Inc., Los Angeles, Calif., a corporation of California**
**Application February 21, 1951, Serial No. 212,114**
**8 Claims. (Cl. 343—100)**

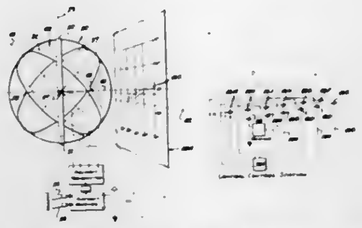
1. In an arrangement of the character described, wherein it is desired to provide voltages which vary substantially linearly with the angle scanned by an antenna beam, means for cyclically moving said antenna beam, an electrical circuit having a movable variable element thereof coupled to said means, a source of high frequency



oscillations, means coupling said source to said electrical circuit, and means coupled to said source regulating the amplitude of the oscillations generated in said source to render said amplitude substantially independent of cyclical variations in said variable element.

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**2,650,359**
**RADIO NAVIGATION SYSTEM**
**William W. Brockway and Douglas G. Shearer, Los Angeles, Calif.**
**Application March 20, 1950, Serial No. 150,681**
**20 Claims. (Cl. 343—112)**

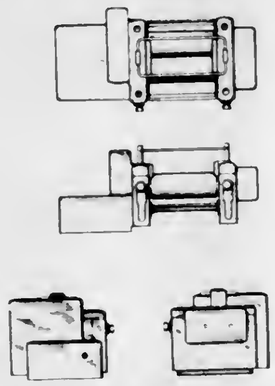


1. A Hertzian wave space-scanning system comprising: a mobile station including means for generating and transmitting Hertzian waves into a selected space segment including two separable components arranged to scan the space segment through two angularly related scanning paths, each of said components being phase-modulated at any point in the space segment in accordance with the spatial coordinates of that point with respect to the transmitting means; a plurality of Hertzian wave receiving means located at predetermined positions; means for detecting, separating, and correlating the received separable components and producing a video signal carrying intelligence identifying the relative positions of the receivers; means for transmitting the video signal carrying intelligence identifying the relative positions of the receivers to the mobile station; and means on the mobile station for converting the video signals into a visual representation of the receiver locations in perspective relationship from the attitude of the mobile station.

# DESIGNS

AUGUST 25, 1953

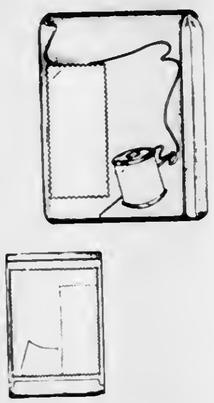
**170,253**
**FRAME FOR A COMBINATION RUBBER AND PLASTIC MILL**
**Luther K. Bates, Trenton, N. J., assignor to William R. Thropp & Sons Corp., Trenton, N. J.**
**Application November 24, 1952, Serial No. 22,426**
**Term of patent 14 years**
**(Cl. D55—1)**



The ornamental design for a frame for a combination rubber and plastic mill, substantially as shown and described.

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**170,254**
**MERCHANDISE ENVELOPE**
**Morton Bookler, Merion, Pa.**
**Application March 1, 1952, Serial No. 18,749**
**Term of patent 14 years**
**(Cl. D58—2)**



The ornamental design for a merchandise envelope, as shown.

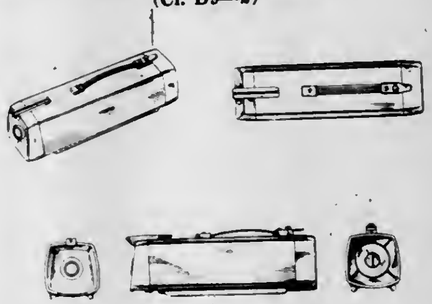
**170,255**
**BOTTLE**
**Ronald H. Dallas, South Gate, Calif., assignor to Cella Vineyards, Reedley, Calif., a corporation of California**
**Application June 3, 1953, Serial No. 25,298**
**Term of patent 14 years**
**(Cl. D58—8)**



The ornamental design for a bottle, substantially as shown and described.

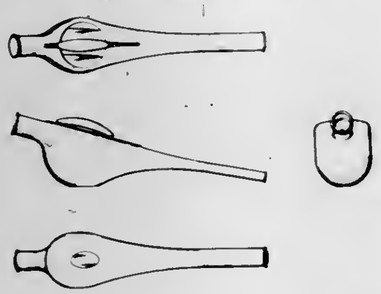
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**170,256**
**SUCTION CLEANER**
**Henry Dreyfuss, South Pasadena, Calif., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio**
**Application March 18, 1953, Serial No. 24,100**
**Term of patent 14 years**
**(Cl. D9—2)**



The ornamental design for a suction cleaner, substantially as shown.

170,257
**CIGARETTE HOLDER**
Jock Francken, Villa Ly, Lugano-Suvigliana, Switzerland
Application August 2, 1952, Serial No. 20,885
Term of patent 7 years
(Cl. D85—8)



The ornamental design for a cigarette holder, as shown.

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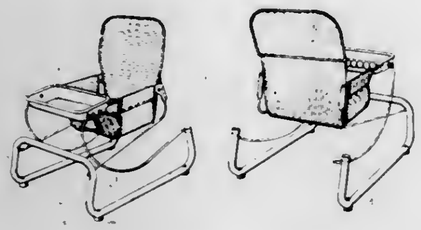
170,258
**PIE**
Howard L. Griffin, Greensboro, N. C.
Application June 12, 1952, Serial No. 20,158
Term of patent 14 years
(Cl. D8—1)



The ornamental design for a pie, substantially as shown.

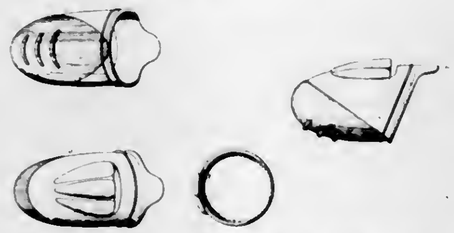
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170,259
**BABY JUMPER**
Bertis F. Hamilton, Columbus, Ind.
Application April 1, 1953, Serial No. 24,297
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a baby jumper, as shown.

170,260
**FINGER PAD OR SIMILAR ARTICLE**
Charles E. Jones, Chicago, Ill., assignor to The Transion Company, Newark, N. J., a corporation of New Jersey
Application February 24, 1953, Serial No. 23,759
Term of patent 7 years
(Cl. D74—1)



The ornamental design for a finger pad or similar article, substantially as shown.

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170,261
**BROOCH OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,409
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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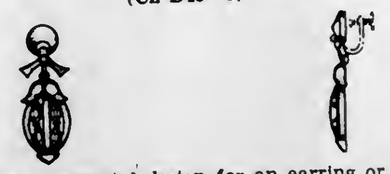
170,262
**EARRING OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,410
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.



170,263
**EARRING OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 9, 1953, Serial No. 25,411
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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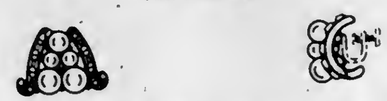
170,264
**BROOCH OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,612
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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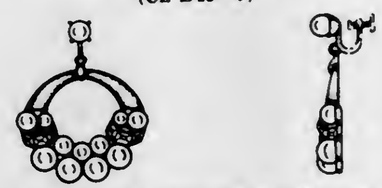
170,265
**EARRING OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,613
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,266
**EARRING OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,614
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

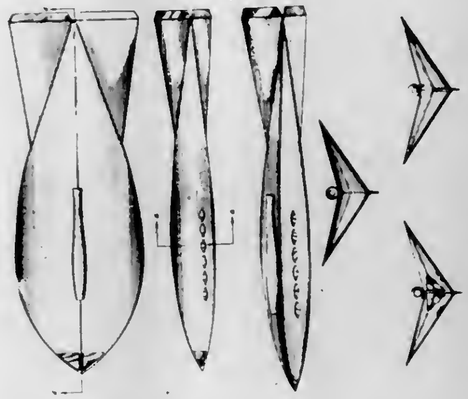
170,267
**EARRING OR THE LIKE**
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application June 23, 1953, Serial No. 25,617
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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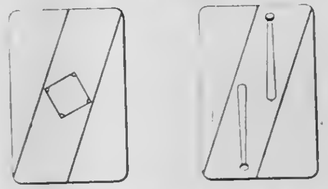
170,268
**AIRPLANE**
Joseph F. Liebhaber, Merrimac, Wis.
Application November 28, 1952, Serial No. 22,478
Term of patent 14 years
(Cl. D71—1)



The ornamental design for an airplane, as shown.

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170,269
**SET OF CARDS FOR PLAYING A BASEBALL GAME**
Raymond Francis Nekuda, Kansas City, Mo.
Application April 16, 1952, Serial No. 19,346
Term of patent 7 years
(Cl. D34—13)



The ornamental design for a set of cards for playing a base ball game, as shown and described.

170,270
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 9, 1953, Serial No. 25,396
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,271
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 9, 1953, Serial No. 25,397
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,272
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 9, 1953, Serial No. 25,398
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,273
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,559
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

170,274
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,561
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,275
**EARRING OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,562
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

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170,276
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,563
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,277
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,564
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.



170,278
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,565
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,279
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,566
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,280
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,567
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,281
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,568
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

170,282
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,569
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,283
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,570
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

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170,284
**BROOCH OR THE LIKE**
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 19, 1953, Serial No. 25,571
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

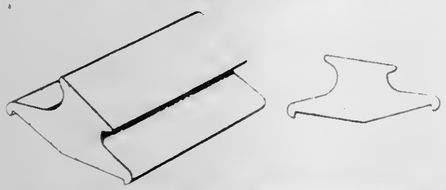
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170,285
**COMBINED DENTAL CUSPIDOR AND SHIELD**
William B. Rice, Columbus, Ind.
Application February 26, 1952, Serial No. 13,670
Term of patent 14 years
(Cl. D24—1)



The ornamental design for a combined dental cuspidor and shield, as shown.

170,286
**MOLDING STRIP**
Howard L. Roessler, Elgin, Ill.
Application April 7, 1953, Serial No. 24,387
Term of patent 14 years
(Cl. D54—2)



The ornamental design for a molding strip, as shown.

170,287
**BOTTLE**
John B. Rosefield, Piedmont, Calif.
Application June 11, 1953, Serial No. 25,455
Term of patent 14 years
(Cl. D58—11)



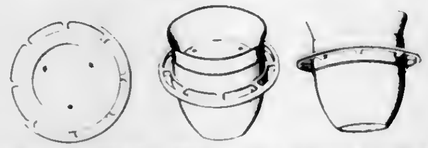
The ornamental design for a bottle, as shown.

170,288
**TOY AIRPLANE**
Joseph Edric Rylands, Lancashire, England
Application August 1, 1952, Serial No. 20,870
In Great Britain April 25, 1952
Term of patent 7 years
(Cl. D34—15)



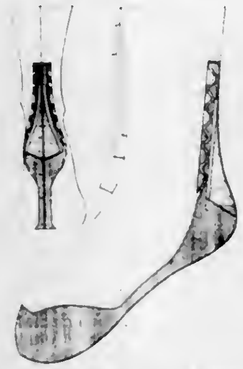
The ornamental design for a toy airplane, as shown.

170,289
**COMBINED DRINKING CUP AND GUARD RING**
Kenneth Valentine Skipp, London, England
Application June 17, 1949, Serial No. 3,379
Term of patent 14 years
(Cl. D44—9)



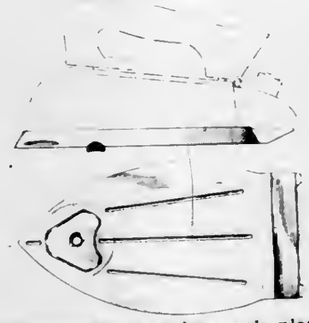
The ornamental design for a combined drinking cup and guard ring, as shown.

170,290
**STOCKING**
Isadore Stillman, Philadelphia, Pa.
Application March 18, 1952, Serial No. 18,951
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown.

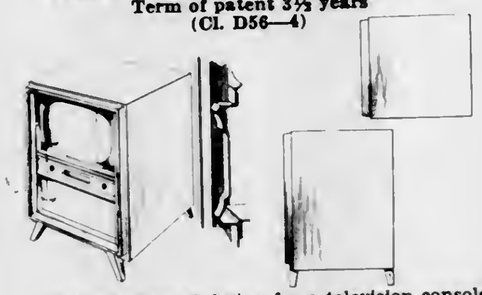
170,291
**SOLE PLATE FOR AN ELECTRIC IRON**
Henry J. Talge, Kansas City, Mo., assignor to John C. Hockery, Kansas City, Mo., as trustee
Application August 27, 1952, Serial No. 21,203
Term of patent 14 years
(Cl. D49—6)



The ornamental design for a sole plate for an electric iron, as shown and described.

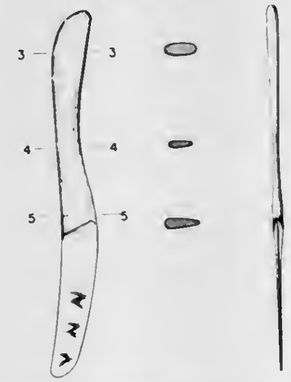


170,292
**TELEVISION CONSOLE CABINET**
George Trautvetter, Jenkintown, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 25, 1953, Serial No. 24,192
Term of patent 3½ years
(Cl. D56—4)



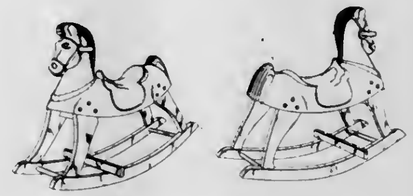
The ornamental design for a television console cabinet, as shown.

170,293
**KNIFE OR SIMILAR ARTICLE**
Donald A. Wallance, Croton-on-Hudson, N. Y.
Application January 14, 1953, Serial No. 23,124
Term of patent 14 years
(Cl. D22—3)



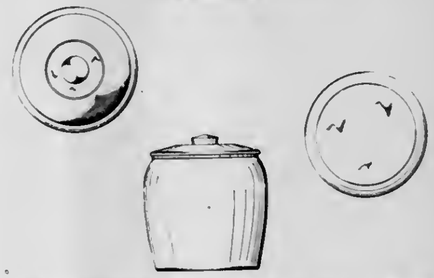
The ornamental design for a knife or similar article, as shown.

170,294
**HOBBYHORSE**
Russell Wenkstern, Mound, Minn., assignor to Moulded Products, Inc., Spring Park, Minn., a corporation of Minnesota
Application July 8, 1950, Serial No. 11,027
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a hobbyhorse, substantially as shown.

170,295
**CANISTER OR SIMILAR ARTICLE**
Manuel S. Ziskin, Mayfield Heights, and Ralph B. Billig, Willoughby, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio
Application March 2, 1953, Serial No. 23,832
Term of patent 14 years
(Cl. D44—6)



The ornamental design for a canister or similar article, substantially as shown.

# ROLL NO 28

# OFFICIAL GAZETTE UNITED STATES PATENT OFFICE

## JULY & AUGUST 1953

## VOLS 672 & 673

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